



| <div>LTE</div> <div>Band 17</div> <div>5MHz</div> <div>QPSK</div>    | <div><div>UL Korea, Ltd Suwon Laboratory</div><div>Above 1GHz High Frequency Substitution Measurement</div><div><div>Company: Samsung</div><div>Project #: 16K22866</div><div>Date: 02-23-16</div><div>Test Engineer: Steven Kim</div><div>Configuration: EUT / AC Adapter / Ear Phone / Y-Position</div><div>Mode: TX, LTE BAND 17, 5MHz BW, QPSK</div></div><div><div>Chamber</div><div>Chamber 2</div></div><div><div>Pre-amplifier</div><div>AFS42</div></div><div><div>Filter</div><div>Filter 1</div></div><div><div>Limit</div><div>FCC Part 27</div></div><table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (706.5MHz)</td></tr><tr><td>1.4130</td><td>-25.4</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-63.4</td><td>-13.0</td><td>-50.4</td><td></td></tr><tr><td>2.1195</td><td>-9.4</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-47.7</td><td>-13.0</td><td>-34.7</td><td></td></tr><tr><td>2.8260</td><td>-23.9</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.6</td><td>-13.0</td><td>-49.6</td><td></td></tr><tr><td>1.4130</td><td>-26.2</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-64.2</td><td>-13.0</td><td>-51.2</td><td></td></tr><tr><td>2.1195</td><td>-16.2</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-54.5</td><td>-13.0</td><td>-41.5</td><td></td></tr><tr><td>2.8260</td><td>-24.0</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.8</td><td>-13.0</td><td>-49.8</td><td></td></tr><tr><td colspan="10">Mid Channel (710MHz)</td></tr><tr><td>1.4200</td><td>-22.8</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-60.8</td><td>-13.0</td><td>-47.8</td><td></td></tr><tr><td>2.1300</td><td>-9.2</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-47.6</td><td>-13.0</td><td>-34.6</td><td></td></tr><tr><td>2.8400</td><td>-23.6</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.3</td><td>-13.0</td><td>-49.3</td><td></td></tr><tr><td>1.4200</td><td>-26.9</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-64.9</td><td>-13.0</td><td>-51.9</td><td></td></tr><tr><td>2.1300</td><td>-16.6</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-54.9</td><td>-13.0</td><td>-41.9</td><td></td></tr><tr><td>2.8400</td><td>-23.1</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-61.8</td><td>-13.0</td><td>-48.8</td><td></td></tr><tr><td colspan="10">High Channel (713.5MHz)</td></tr><tr><td>1.4270</td><td>-24.2</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-62.2</td><td>-13.0</td><td>-49.2</td><td></td></tr><tr><td>2.1405</td><td>-10.0</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-48.4</td><td>-13.0</td><td>-35.4</td><td></td></tr><tr><td>2.8540</td><td>-23.8</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.5</td><td>-13.0</td><td>-49.5</td><td></td></tr><tr><td>1.4270</td><td>-26.2</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-64.2</td><td>-13.0</td><td>-51.2</td><td></td></tr><tr><td>2.1405</td><td>-14.1</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr><tr><td>2.8540</td><td>-23.9</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.6</td><td>-13.0</td><td>-49.6</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09</td></tr><tr><td colspan="10">Note: No other emissions were detected above the system noise floor.</td></tr></table></div>    | f GHz           | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm)  | Limit (dBm) | Delta (dB) | Notes | Low Channel (706.5MHz) |  |  |  |  |  |  |  |  |  | 1.4130 | -25.4 | V | 3.0 | 39.0 | 1.0 | -63.4 | -13.0 | -50.4 |  | 2.1195 | -9.4  | V | 3.0 | 39.3 | 1.0 | -47.7 | -13.0 | -34.7 |  | 2.8260 | -23.9 | V | 3.0 | 39.7 | 1.0 | -62.6 | -13.0 | -49.6 |  | 1.4130 | -26.2 | H | 3.0 | 39.0 | 1.0 | -64.2 | -13.0 | -51.2 |  | 2.1195 | -16.2 | H | 3.0 | 39.3 | 1.0 | -54.5 | -13.0 | -41.5 |  | 2.8260 | -24.0 | H | 3.0 | 39.7 | 1.0 | -62.8 | -13.0 | -49.8 |  | Mid Channel (710MHz) |  |  |  |  |  |  |  |  |  | 1.4200 | -22.8 | V | 3.0 | 39.0 | 1.0 | -60.8 | -13.0 | -47.8 |  | 2.1300 | -9.2  | V | 3.0 | 39.3 | 1.0 | -47.6 | -13.0 | -34.6 |  | 2.8400 | -23.6 | V | 3.0 | 39.7 | 1.0 | -62.3 | -13.0 | -49.3 |  | 1.4200 | -26.9 | H | 3.0 | 39.0 | 1.0 | -64.9 | -13.0 | -51.9 |  | 2.1300 | -16.6 | H | 3.0 | 39.3 | 1.0 | -54.9 | -13.0 | -41.9 |  | 2.8400 | -23.1 | H | 3.0 | 39.7 | 1.0 | -61.8 | -13.0 | -48.8 |  | High Channel (713.5MHz) |  |  |  |  |  |  |  |  |  | 1.4270 | -24.2 | V | 3.0 | 39.0 | 1.0 | -62.2 | -13.0 | -49.2 |  | 2.1405 | -10.0 | V | 3.0 | 39.3 | 1.0 | -48.4 | -13.0 | -35.4 |  | 2.8540 | -23.8 | V | 3.0 | 39.7 | 1.0 | -62.5 | -13.0 | -49.5 |  | 1.4270 | -26.2 | H | 3.0 | 39.0 | 1.0 | -64.2 | -13.0 | -51.2 |  | 2.1405 | -14.1 | H | 3.0 | 39.3 | 1.0 | -52.5 | -13.0 | -39.5 |  | 2.8540 | -23.9 | H | 3.0 | 39.7 | 1.0 | -62.6 | -13.0 | -49.6 |  | Rev. 03.03.09 |  |  |  |  |  |  |  |  |  | Note: No other emissions were detected above the system noise floor. |  |  |  |  |  |  |  |  |  |
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|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|---------------|--|--|--|--|--|--|--|--|--|----------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| f GHz                                                                | SGreading (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Ant. Pol. (H/V) | Distance (m)    | Preamp (dB)     | Filter (dB)  | ERP (dBm)   | Limit (dBm) | Delta (dB) | Notes       |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                      |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| Low Channel (706.5MHz)                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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 |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| 1.4130                                                               | -25.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0             | 39.0            | 1.0          | -63.4       | -13.0       | -50.4      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| 2.1195                                                               | -9.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | V               | 3.0             | 39.3            | 1.0          | -47.7       | -13.0       | -34.7      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| 2.8260                                                               | -23.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0             | 39.7            | 1.0          | -62.6       | -13.0       | -49.6      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| 1.4130                                                               | -26.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0             | 39.0            | 1.0          | -64.2       | -13.0       | -51.2      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| 2.1195                                                               | -16.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0             | 39.3            | 1.0          | -54.5       | -13.0       | -41.5      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| 2.8260                                                               | -24.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0             | 39.7            | 1.0          | -62.8       | -13.0       | -49.8      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| Mid Channel (710MHz)                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 1.4200                                                               | -22.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0             | 39.0            | 1.0          | -60.8       | -13.0       | -47.8      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| 2.1300                                                               | -9.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | V               | 3.0             | 39.3            | 1.0          | -47.6       | -13.0       | -34.6      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| 2.8400                                                               | -23.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 1.4200                                                               | -26.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0             | 39.0            | 1.0          | -64.9       | -13.0       | -51.9      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| 2.1300                                                               | -16.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 2.8400                                                               | -23.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0             | 39.7            | 1.0          | -61.8       | -13.0       | -48.8      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| High Channel (713.5MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 1.4270                                                               | -24.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 2.1405                                                               | -10.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0             | 39.3            | 1.0          | -48.4       | -13.0       | -35.4      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| 2.8540                                                               | -23.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0             | 39.7            | 1.0          | -62.5       | -13.0       | -49.5      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| 1.4270                                                               | -26.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0             | 39.0            | 1.0          | -64.2       | -13.0       | -51.2      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| 2.1405                                                               | -14.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0             | 39.3            | 1.0          | -52.5       | -13.0       | -39.5      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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 |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| 2.8540                                                               | -23.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0             | 39.7            | 1.0          | -62.6       | -13.0       | -49.6      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                      |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |    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| Rev. 03.03.09                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Note: No other emissions were detected above the system noise floor. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| <div>LTE</div> <div>Band 17</div> <div>5MHz</div> <div>16QAM</div>   | <div><div>UL Korea, Ltd Suwon Laboratory</div><div>Above 1GHz High Frequency Substitution Measurement</div><div><div>Company: Samsung</div><div>Project #: 16K22866</div><div>Date: 02-23-16</div><div>Test Engineer: Steven Kim</div><div>Configuration: EUT / AC Adapter / Ear Phone / Y-Position</div><div>Mode: TX, LTE BAND 17, 5MHz BW, 16QAM</div></div><div><div>Chamber</div><div>Chamber 2</div></div><div><div>Pre-amplifier</div><div>AFS42</div></div><div><div>Filter</div><div>Filter 1</div></div><div><div>Limit</div><div>FCC Part 27</div></div><table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (706.5MHz)</td></tr><tr><td>1.4130</td><td>-26.0</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-64.1</td><td>-13.0</td><td>-51.1</td><td></td></tr><tr><td>2.1195</td><td>-10.7</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-49.0</td><td>-13.0</td><td>-36.0</td><td></td></tr><tr><td>2.8260</td><td>-24.0</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.7</td><td>-13.0</td><td>-49.7</td><td></td></tr><tr><td>1.4130</td><td>-26.9</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-64.9</td><td>-13.0</td><td>-51.9</td><td></td></tr><tr><td>2.1195</td><td>-17.5</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-55.8</td><td>-13.0</td><td>-42.8</td><td></td></tr><tr><td>2.8260</td><td>-24.0</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.7</td><td>-13.0</td><td>-49.7</td><td></td></tr><tr><td colspan="10">Mid Channel (710MHz)</td></tr><tr><td>1.4200</td><td>-24.0</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-62.0</td><td>-13.0</td><td>-49.0</td><td></td></tr><tr><td>2.1300</td><td>-12.2</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-50.5</td><td>-13.0</td><td>-37.5</td><td></td></tr><tr><td>2.8400</td><td>-23.6</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.3</td><td>-13.0</td><td>-49.3</td><td></td></tr><tr><td>1.4200</td><td>-27.2</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-65.2</td><td>-13.0</td><td>-52.2</td><td></td></tr><tr><td>2.1300</td><td>-18.4</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-56.7</td><td>-13.0</td><td>-43.7</td><td></td></tr><tr><td>2.8400</td><td>-23.1</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-61.8</td><td>-13.0</td><td>-48.8</td><td></td></tr><tr><td colspan="10">High Channel (713.5MHz)</td></tr><tr><td>1.4270</td><td>-25.4</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-63.4</td><td>-13.0</td><td>-50.4</td><td></td></tr><tr><td>2.1405</td><td>-13.2</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-51.6</td><td>-13.0</td><td>-38.6</td><td></td></tr><tr><td>2.8540</td><td>-23.9</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.6</td><td>-13.0</td><td>-49.6</td><td></td></tr><tr><td>1.4270</td><td>-27.1</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-65.1</td><td>-13.0</td><td>-52.1</td><td></td></tr><tr><td>2.1405</td><td>-17.3</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-55.6</td><td>-13.0</td><td>-42.6</td><td></td></tr><tr><td>2.8540</td><td>-23.9</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.6</td><td>-13.0</td><td>-49.6</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09</td></tr><tr><td colspan="10">Note: No other emissions were detected above the system noise floor.</td></tr></table></div> | f GHz           | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm)  | Limit (dBm) | Delta (dB) | Notes | Low Channel (706.5MHz) |  |  |  |  |  |  |  |  |  | 1.4130 | -26.0 | V | 3.0 | 39.0 | 1.0 | -64.1 | -13.0 | -51.1 |  | 2.1195 | -10.7 | V | 3.0 | 39.3 | 1.0 | -49.0 | -13.0 | -36.0 |  | 2.8260 | -24.0 | V | 3.0 | 39.7 | 1.0 | -62.7 | -13.0 | -49.7 |  | 1.4130 | -26.9 | H | 3.0 | 39.0 | 1.0 | -64.9 | -13.0 | -51.9 |  | 2.1195 | -17.5 | H | 3.0 | 39.3 | 1.0 | -55.8 | -13.0 | -42.8 |  | 2.8260 | -24.0 | H | 3.0 | 39.7 | 1.0 | -62.7 | -13.0 | -49.7 |  | Mid Channel (710MHz) |  |  |  |  |  |  |  |  |  | 1.4200 | -24.0 | V | 3.0 | 39.0 | 1.0 | -62.0 | -13.0 | -49.0 |  | 2.1300 | -12.2 | V | 3.0 | 39.3 | 1.0 | -50.5 | -13.0 | -37.5 |  | 2.8400 | -23.6 | V | 3.0 | 39.7 | 1.0 | -62.3 | -13.0 | -49.3 |  | 1.4200 | -27.2 | H | 3.0 | 39.0 | 1.0 | -65.2 | -13.0 | -52.2 |  | 2.1300 | -18.4 | H | 3.0 | 39.3 | 1.0 | -56.7 | -13.0 | -43.7 |  | 2.8400 | -23.1 | H | 3.0 | 39.7 | 1.0 | -61.8 | -13.0 | -48.8 |  | High Channel (713.5MHz) |  |  |  |  |  |  |  |  |  | 1.4270 | -25.4 | V | 3.0 | 39.0 | 1.0 | -63.4 | -13.0 | -50.4 |  | 2.1405 | -13.2 | V | 3.0 | 39.3 | 1.0 | -51.6 | -13.0 | -38.6 |  | 2.8540 | -23.9 | V | 3.0 | 39.7 | 1.0 | -62.6 | -13.0 | -49.6 |  | 1.4270 | -27.1 | H | 3.0 | 39.0 | 1.0 | -65.1 | -13.0 | -52.1 |  | 2.1405 | -17.3 | H | 3.0 | 39.3 | 1.0 | -55.6 | -13.0 | -42.6 |  | 2.8540 | -23.9 | H | 3.0 | 39.7 | 1.0 | -62.6 | -13.0 | -49.6 |  | Rev. 03.03.09 |  |  |  |  |  |  |  |  |  | Note: No other emissions were detected above the system noise floor. |  |  |  |  |  |  |  |  |  |
| f GHz                                                                | SGreading (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Ant. Pol. (H/V) | Distance (m)    | Preamp (dB)     | Filter (dB)  | ERP (dBm)   | Limit (dBm) | Delta (dB) | Notes       |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                      |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| Low Channel (706.5MHz)                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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 |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| 1.4130                                                               | -26.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0             | 39.0            | 1.0          | -64.1       | -13.0       | -51.1      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                      |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| 2.1195                                                               | -10.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0             | 39.3            | 1.0          | -49.0       | -13.0       | -36.0      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| 2.8260                                                               | -24.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0             | 39.7            | 1.0          | -62.7       | -13.0       | -49.7      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| 1.4130                                                               | -26.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 2.1195                                                               | -17.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0             | 39.3            | 1.0          | -55.8       | -13.0       | -42.8      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| 2.8260                                                               | -24.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Mid Channel (710MHz)                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 1.4200                                                               | -24.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 2.1300                                                               | -12.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0             | 39.3            | 1.0          | -50.5       | -13.0       | -37.5      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| 2.8400                                                               | -23.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 1.4200                                                               | -27.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 2.1300                                                               | -18.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0             | 39.3            | 1.0          | -56.7       | -13.0       | -43.7      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| 2.8400                                                               | -23.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0             | 39.7            | 1.0          | -61.8       | -13.0       | -48.8      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| High Channel (713.5MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                      |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| 1.4270                                                               | -25.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0             | 39.0            | 1.0          | -63.4       | -13.0       | -50.4      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                      |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| 2.1405                                                               | -13.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0             | 39.3            | 1.0          | -51.6       | -13.0       | -38.6      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                      |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| 2.8540                                                               | -23.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0             | 39.7            | 1.0          | -62.6       | -13.0       | -49.6      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                      |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| 1.4270                                                               | -27.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0             | 39.0            | 1.0          | -65.1       | -13.0       | -52.1      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                      |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| 2.1405                                                               | -17.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0             | 39.3            | 1.0          | -55.6       | -13.0       | -42.6      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                      |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| 2.8540                                                               | -23.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0             | 39.7            | 1.0          | -62.6       | -13.0       | -49.6      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                      |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| Rev. 03.03.09                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                      |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| Note: No other emissions were detected above the system noise floor. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                      |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |

# LTE Band 5

UL Korea, Ltd Suwon Laboratory  
Above 1GHz High Frequency Substitution Measurement

Company: Samsung  
Project #: 16K22866  
Date: 02-23-16  
Test Engineer: Steven.Kim  
Configuration: EUT / AC Adapter / Earphone, Y Position  
Mode: TX, LTE BAND 5, 10MHz BW,QPSK

| Chamber   | Pre-amplifier | Filter   | Limit   |
|-----------|---------------|----------|---------|
| Chamber 2 | AFS42         | Filter 1 | Part 22 |

| f GHz                  | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|------------------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Low Channel (829MHz)   |                  |                 |              |             |             |            |             |            |       |
| 1.6580                 | -18.1            | V               | 3.0          | 39.1        | 1.0         | -56.2      | -13.0       | -43.2      |       |
| 2.4870                 | -16.3            | V               | 3.0          | 39.5        | 1.0         | -54.8      | -13.0       | -41.8      |       |
| 3.3160                 | -21.9            | V               | 3.0          | 40.1        | 1.0         | -61.0      | -13.0       | -48.0      |       |
| 1.6580                 | -25.7            | H               | 3.0          | 39.1        | 1.0         | -63.8      | -13.0       | -50.8      |       |
| 2.4870                 | -10.3            | H               | 3.0          | 39.5        | 1.0         | -48.9      | -13.0       | -35.9      |       |
| 3.3160                 | -22.3            | H               | 3.0          | 40.1        | 1.0         | -61.4      | -13.0       | -48.4      |       |
| Mid Channel (836.5MHz) |                  |                 |              |             |             |            |             |            |       |
| 1.6730                 | -21.9            | V               | 3.0          | 39.1        | 1.0         | -60.0      | -13.0       | -47.0      |       |
| 2.5090                 | -16.8            | V               | 3.0          | 39.5        | 1.0         | -55.3      | -13.0       | -42.3      |       |
| 3.3460                 | -22.2            | V               | 3.0          | 40.1        | 1.0         | -61.3      | -13.0       | -48.3      |       |
| 1.6730                 | -23.9            | H               | 3.0          | 39.1        | 1.0         | -62.1      | -13.0       | -49.1      |       |
| 2.5090                 | -9.9             | H               | 3.0          | 39.5        | 1.0         | -48.4      | -13.0       | -35.4      |       |
| 3.3460                 | -22.6            | H               | 3.0          | 40.1        | 1.0         | -61.8      | -13.0       | -48.8      |       |
| High Channel (844MHz)  |                  |                 |              |             |             |            |             |            |       |
| 1.6880                 | -21.9            | V               | 3.0          | 39.1        | 1.0         | -60.0      | -13.0       | -47.0      |       |
| 2.5320                 | -16.5            | V               | 3.0          | 39.5        | 1.0         | -55.1      | -13.0       | -42.1      |       |
| 3.3760                 | -22.6            | V               | 3.0          | 40.2        | 1.0         | -61.8      | -13.0       | -48.8      |       |
| 1.6880                 | -22.0            | H               | 3.0          | 39.1        | 1.0         | -60.1      | -13.0       | -47.1      |       |
| 2.5320                 | -14.4            | H               | 3.0          | 39.5        | 1.0         | -53.0      | -13.0       | -40.0      |       |
| 3.3760                 | -22.9            | H               | 3.0          | 40.2        | 1.0         | -62.1      | -13.0       | -49.1      |       |

Rev. 03.03.09

Note: No other emissions were detected above the system noise floor.

UL Korea, Ltd Suwon Laboratory  
Above 1GHz High Frequency Substitution Measurement

Company: Samsung  
Project #: 16K22866  
Date: 02-23-16  
Test Engineer: Steven.Kim  
Configuration: EUT / AC Adapter / Earphone, Y Position  
Mode: TX, LTE BAND 5, 10MHz BW,16QAM

| Chamber   | Pre-amplifier | Filter   | Limit   |
|-----------|---------------|----------|---------|
| Chamber 2 | AFS42         | Filter 1 | Part 22 |

| f GHz                  | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|------------------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Low Channel (829MHz)   |                  |                 |              |             |             |            |             |            |       |
| 1.6580                 | -20.0            | V               | 3.0          | 39.1        | 1.0         | -58.1      | -13.0       | -45.1      |       |
| 2.4870                 | -16.8            | V               | 3.0          | 39.5        | 1.0         | -55.3      | -13.0       | -42.3      |       |
| 3.3160                 | -22.1            | V               | 3.0          | 40.1        | 1.0         | -61.2      | -13.0       | -48.2      |       |
| 1.6580                 | -26.2            | H               | 3.0          | 39.1        | 1.0         | -64.3      | -13.0       | -51.3      |       |
| 2.4870                 | -12.4            | H               | 3.0          | 39.5        | 1.0         | -50.9      | -13.0       | -37.9      |       |
| 3.3160                 | -22.3            | H               | 3.0          | 40.1        | 1.0         | -61.4      | -13.0       | -48.4      |       |
| Mid Channel (836.5MHz) |                  |                 |              |             |             |            |             |            |       |
| 1.6730                 | -22.7            | V               | 3.0          | 39.1        | 1.0         | -60.9      | -13.0       | -47.9      |       |
| 2.5090                 | -18.1            | V               | 3.0          | 39.5        | 1.0         | -56.6      | -13.0       | -43.6      |       |
| 3.3460                 | -22.3            | V               | 3.0          | 40.1        | 1.0         | -61.5      | -13.0       | -48.5      |       |
| 1.6730                 | -24.1            | H               | 3.0          | 39.1        | 1.0         | -62.2      | -13.0       | -49.2      |       |
| 2.5090                 | -11.6            | H               | 3.0          | 39.5        | 1.0         | -50.1      | -13.0       | -37.1      |       |
| 3.3460                 | -22.6            | H               | 3.0          | 40.1        | 1.0         | -61.7      | -13.0       | -48.7      |       |
| High Channel (844MHz)  |                  |                 |              |             |             |            |             |            |       |
| 1.6880                 | -22.8            | V               | 3.0          | 39.1        | 1.0         | -60.9      | -13.0       | -47.9      |       |
| 2.5320                 | -18.3            | V               | 3.0          | 39.5        | 1.0         | -56.9      | -13.0       | -43.9      |       |
| 3.3760                 | -22.6            | V               | 3.0          | 40.2        | 1.0         | -61.7      | -13.0       | -48.7      |       |
| 1.6880                 | -23.5            | H               | 3.0          | 39.1        | 1.0         | -61.7      | -13.0       | -48.7      |       |
| 2.5320                 | -15.2            | H               | 3.0          | 39.5        | 1.0         | -53.8      | -13.0       | -40.8      |       |
| 3.3760                 | -22.8            | H               | 3.0          | 40.2        | 1.0         | -62.0      | -13.0       | -49.0      |       |

Rev. 03.03.09

Note: No other emissions were detected above the system noise floor.

UL Korea, Ltd Suwon Laboratory  
Above 1GHz High Frequency Substitution Measurement

Company: Samsung  
Project #: 16K22866  
Date: 03-07-16  
Test Engineer: Steven.Kim  
Configuration: EUT / AC Adapter / Earphone, Y Position  
Mode: TX, LTE BAND 5, 5MHz BW,QPSK

| Chamber   | Pre-amplifier | Filter   | Limit   |
|-----------|---------------|----------|---------|
| Chamber 2 | AFS42         | Filter 1 | Part 22 |

| f GHz                   | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|-------------------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Low Channel (826.5MHz)  |                  |                 |              |             |             |            |             |            |       |
| 1.6530                  | -21.3            | V               | 3.0          | 39.1        | 1.0         | -59.4      | -13.0       | -46.4      |       |
| 2.4790                  | -20.5            | V               | 3.0          | 39.5        | 1.0         | -59.0      | -13.0       | -46.0      |       |
| 3.3060                  | -22.9            | V               | 3.0          | 40.1        | 1.0         | -62.0      | -13.0       | -49.0      |       |
| 1.6530                  | -26.5            | H               | 3.0          | 39.1        | 1.0         | -64.6      | -13.0       | -51.6      |       |
| 2.4790                  | -22.0            | H               | 3.0          | 39.5        | 1.0         | -60.5      | -13.0       | -47.5      |       |
| 3.3060                  | -22.9            | H               | 3.0          | 40.1        | 1.0         | -62.0      | -13.0       | -49.0      |       |
| Mid Channel (836.5MHz)  |                  |                 |              |             |             |            |             |            |       |
| 1.6730                  | -20.3            | V               | 3.0          | 39.1        | 1.0         | -58.4      | -13.0       | -45.4      |       |
| 2.5090                  | -22.8            | V               | 3.0          | 39.5        | 1.0         | -61.3      | -13.0       | -48.3      |       |
| 3.3460                  | -22.8            | V               | 3.0          | 40.1        | 1.0         | -61.9      | -13.0       | -48.9      |       |
| 1.6730                  | -25.6            | H               | 3.0          | 39.1        | 1.0         | -63.7      | -13.0       | -50.7      |       |
| 2.5090                  | -21.5            | H               | 3.0          | 39.5        | 1.0         | -60.1      | -13.0       | -47.1      |       |
| 3.3460                  | -22.8            | H               | 3.0          | 40.1        | 1.0         | -61.9      | -13.0       | -48.9      |       |
| High Channel (846.5MHz) |                  |                 |              |             |             |            |             |            |       |
| 1.6930                  | -23.9            | V               | 3.0          | 39.1        | 1.0         | -62.0      | -13.0       | -49.0      |       |
| 2.5390                  | -23.8            | V               | 3.0          | 39.6        | 1.0         | -62.3      | -13.0       | -49.3      |       |
| 3.3860                  | -22.5            | V               | 3.0          | 40.2        | 1.0         | -61.6      | -13.0       | -48.6      |       |
| 1.6930                  | -25.8            | H               | 3.0          | 39.1        | 1.0         | -64.0      | -13.0       | -51.0      |       |
| 2.5390                  | -22.4            | H               | 3.0          | 39.6        | 1.0         | -61.0      | -13.0       | -48.0      |       |
| 3.3860                  | -22.8            | H               | 3.0          | 40.2        | 1.0         | -62.0      | -13.0       | -49.0      |       |

Rev. 03.03.09

Note: No other emissions were detected above the system noise floor.

UL Korea, Ltd Suwon Laboratory  
Above 1GHz High Frequency Substitution Measurement

Company: Samsung  
Project #: 16K22866  
Date: 03-07-16  
Test Engineer: Steven.Kim  
Configuration: EUT / AC Adapter / Earphone, Y Position  
Mode: TX, LTE BAND 5, 5MHz BW,16QAM

| Chamber   | Pre-amplifier | Filter   | Limit   |
|-----------|---------------|----------|---------|
| Chamber 2 | AFS42         | Filter 1 | Part 22 |

| f GHz                   | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|-------------------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Low Channel (826.5MHz)  |                  |                 |              |             |             |            |             |            |       |
| 1.6530                  | -22.3            | V               | 3.0          | 39.1        | 1.0         | -60.4      | -13.0       | -47.4      |       |
| 2.4790                  | -21.2            | V               | 3.0          | 39.5        | 1.0         | -59.7      | -13.0       | -46.7      |       |
| 3.3060                  | -23.1            | V               | 3.0          | 40.1        | 1.0         | -62.2      | -13.0       | -49.2      |       |
| 1.6530                  | -26.7            | H               | 3.0          | 39.1        | 1.0         | -64.8      | -13.0       | -51.8      |       |
| 2.4790                  | -22.3            | H               | 3.0          | 39.5        | 1.0         | -60.8      | -13.0       | -47.8      |       |
| 3.3060                  | -23.1            | H               | 3.0          | 40.1        | 1.0         | -62.2      | -13.0       | -49.2      |       |
| Mid Channel (836.5MHz)  |                  |                 |              |             |             |            |             |            |       |
| 1.6730                  | -22.6            | V               | 3.0          | 39.1        | 1.0         | -60.7      | -13.0       | -47.7      |       |
| 2.5090                  | -23.6            | V               | 3.0          | 39.5        | 1.0         | -62.2      | -13.0       | -49.2      |       |
| 3.3460                  | -23.0            | V               | 3.0          | 40.1        | 1.0         | -62.2      | -13.0       | -49.2      |       |
| 1.6730                  | -26.5            | H               | 3.0          | 39.1        | 1.0         | -64.6      | -13.0       | -51.6      |       |
| 2.5090                  | -23.1            | H               | 3.0          | 39.5        | 1.0         | -61.6      | -13.0       | -48.6      |       |
| 3.3460                  | -23.2            | H               | 3.0          | 40.1        | 1.0         | -62.3      | -13.0       | -49.3      |       |
| High Channel (846.5MHz) |                  |                 |              |             |             |            |             |            |       |
| 1.6930                  | -24.4            | V               | 3.0          | 39.1        | 1.0         | -62.5      | -13.0       | -49.5      |       |
| 2.5390                  | -24.2            | V               | 3.0          | 39.6        | 1.0         | -62.8      | -13.0       | -49.8      |       |
| 3.3860                  | -22.9            | V               | 3.0          | 40.2        | 1.0         | -62.1      | -13.0       | -49.1      |       |
| 1.6930                  | -26.7            | H               | 3.0          | 39.1        | 1.0         | -64.8      | -13.0       | -51.8      |       |
| 2.5390                  | -23.5            | H               | 3.0          | 39.6        | 1.0         | -62.1      | -13.0       | -49.1      |       |
| 3.3860                  | -23.2            | H               | 3.0          | 40.2        | 1.0         | -62.4      | -13.0       | -49.4      |       |

Rev. 03.03.09

Note: No other emissions were detected above the system noise floor.

| <div>LTE</div> <div>Band 5</div> <div>3MHz</div> <div>QPSK</div>  | <div> <div>UL Korea, Ltd Suwon Laboratory</div> <div>Above 1GHz High Frequency Substitution Measurement</div> <div> <div>Company: Samsung</div> <div>Project #: 16K22866</div> <div>Date: 03-07-16</div> <div>Test Engineer: Steven.Kim</div> <div>Configuration: EUT / AC Adapter / Earphone, Y Position</div> <div>Mode: TX LTE BAND 5, 3MHz BW,QPSK</div> </div> <div> <div>Chamber</div> <div>Chamber 2</div> </div> <div> <div>Pre-amplifier</div> <div>AFS42</div> </div> <div> <div>Filter</div> <div>Filter 1</div> </div> <div> <div>Limit</div> <div>Part 22</div> </div> <table> <tr> <th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (825.5MHz)</td></tr> <tr><td>1.6510</td><td>-20.4</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-58.5</td><td>-13.0</td><td>-45.5</td><td></td></tr> <tr><td>2.4765</td><td>-20.2</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-58.7</td><td>-13.0</td><td>-45.7</td><td></td></tr> <tr><td>3.3020</td><td>-22.8</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-61.9</td><td>-13.0</td><td>-48.9</td><td></td></tr> <tr><td>1.6510</td><td>-26.6</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-64.7</td><td>-13.0</td><td>-51.7</td><td></td></tr> <tr><td>2.4765</td><td>-19.5</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-58.0</td><td>-13.0</td><td>-45.0</td><td></td></tr> <tr><td>3.3020</td><td>-22.7</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-61.8</td><td>-13.0</td><td>-48.8</td><td></td></tr> <tr><td colspan="10">Mid Channel (836.5MHz)</td></tr> <tr><td>1.6730</td><td>-20.0</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-58.1</td><td>-13.0</td><td>-45.1</td><td></td></tr> <tr><td>2.5090</td><td>-20.7</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-59.3</td><td>-13.0</td><td>-46.3</td><td></td></tr> <tr><td>3.3460</td><td>-22.7</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-61.8</td><td>-13.0</td><td>-48.8</td><td></td></tr> <tr><td>1.6730</td><td>-25.2</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-63.3</td><td>-13.0</td><td>-50.3</td><td></td></tr> <tr><td>2.5090</td><td>-20.6</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-59.2</td><td>-13.0</td><td>-46.2</td><td></td></tr> <tr><td>3.3460</td><td>-23.0</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-62.1</td><td>-13.0</td><td>-49.1</td><td></td></tr> <tr><td colspan="10">High Channel (847.5MHz)</td></tr> <tr><td>1.6950</td><td>-20.7</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-58.8</td><td>-13.0</td><td>-45.8</td><td></td></tr> <tr><td>2.5425</td><td>-23.0</td><td>V</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-61.6</td><td>-13.0</td><td>-48.6</td><td></td></tr> <tr><td>3.3900</td><td>-22.7</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-61.9</td><td>-13.0</td><td>-48.9</td><td></td></tr> <tr><td>1.6950</td><td>-26.5</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-64.6</td><td>-13.0</td><td>-51.6</td><td></td></tr> <tr><td>2.5425</td><td>-22.3</td><td>H</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-60.8</td><td>-13.0</td><td>-47.8</td><td></td></tr> <tr><td>3.3900</td><td>-22.6</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-61.8</td><td>-13.0</td><td>-48.8</td><td></td></tr> </table> <div>Rev. 03.03.09</div> <div>Note: No other emissions were detected above the system noise floor.</div> </div>  | f GHz           | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Channel (825.5MHz) |  |  |  |  |  |  |  |  |  | 1.6510 | -20.4 | V | 3.0 | 39.1 | 1.0 | -58.5 | -13.0 | -45.5 |  | 2.4765 | -20.2 | V | 3.0 | 39.5 | 1.0 | -58.7 | -13.0 | -45.7 |  | 3.3020 | -22.8 | V | 3.0 | 40.1 | 1.0 | -61.9 | -13.0 | -48.9 |  | 1.6510 | -26.6 | H | 3.0 | 39.1 | 1.0 | -64.7 | -13.0 | -51.7 |  | 2.4765 | -19.5 | H | 3.0 | 39.5 | 1.0 | -58.0 | -13.0 | -45.0 |  | 3.3020 | -22.7 | H | 3.0 | 40.1 | 1.0 | -61.8 | -13.0 | -48.8 |  | Mid Channel (836.5MHz) |  |  |  |  |  |  |  |  |  | 1.6730 | -20.0 | V | 3.0 | 39.1 | 1.0 | -58.1 | -13.0 | -45.1 |  | 2.5090 | -20.7 | V | 3.0 | 39.5 | 1.0 | -59.3 | -13.0 | -46.3 |  | 3.3460 | -22.7 | V | 3.0 | 40.1 | 1.0 | -61.8 | -13.0 | -48.8 |  | 1.6730 | -25.2 | H | 3.0 | 39.1 | 1.0 | -63.3 | -13.0 | -50.3 |  | 2.5090 | -20.6 | H | 3.0 | 39.5 | 1.0 | -59.2 | -13.0 | -46.2 |  | 3.3460 | -23.0 | H | 3.0 | 40.1 | 1.0 | -62.1 | -13.0 | -49.1 |  | High Channel (847.5MHz) |  |  |  |  |  |  |  |  |  | 1.6950 | -20.7 | V | 3.0 | 39.1 | 1.0 | -58.8 | -13.0 | -45.8 |  | 2.5425 | -23.0 | V | 3.0 | 39.6 | 1.0 | -61.6 | -13.0 | -48.6 |  | 3.3900 | -22.7 | V | 3.0 | 40.2 | 1.0 | -61.9 | -13.0 | -48.9 |  | 1.6950 | -26.5 | H | 3.0 | 39.1 | 1.0 | -64.6 | -13.0 | -51.6 |  | 2.5425 | -22.3 | H | 3.0 | 39.6 | 1.0 | -60.8 | -13.0 | -47.8 |  | 3.3900 | -22.6 | H | 3.0 | 40.2 | 1.0 | -61.8 | -13.0 | -48.8 |  |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|------------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|------------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|-------------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|
| f GHz                                                             | SG reading (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Ant. Pol. (H/V) | Distance (m)     | Preamp (dB)     | Filter (dB)  | EIRP (dBm)  | Limit (dBm) | Delta (dB) | Notes       |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| Low Channel (825.5MHz)                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                  |                 |              |             |             |            |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 1.6510                                                            | -20.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | V               | 3.0              | 39.1            | 1.0          | -58.5       | -13.0       | -45.5      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 2.4765                                                            | -20.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | V               | 3.0              | 39.5            | 1.0          | -58.7       | -13.0       | -45.7      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |    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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.3020                                                            | -22.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | V               | 3.0              | 40.1            | 1.0          | -61.9       | -13.0       | -48.9      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |    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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 1.6510                                                            | -26.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | H               | 3.0              | 39.1            | 1.0          | -64.7       | -13.0       | -51.7      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |    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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 2.4765                                                            | -19.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.3020                                                            | -22.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| Mid Channel (836.5MHz)                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 1.6730                                                            | -20.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 2.5090                                                            | -20.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | V               | 3.0              | 39.5            | 1.0          | -59.3       | -13.0       | -46.3      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |    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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.3460                                                            | -22.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | V               | 3.0              | 40.1            | 1.0          | -61.8       | -13.0       | -48.8      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |    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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 1.6730                                                            | -25.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | H               | 3.0              | 39.1            | 1.0          | -63.3       | -13.0       | -50.3      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |    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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 2.5090                                                            | -20.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | H               | 3.0              | 39.5            | 1.0          | -59.2       | -13.0       | -46.2      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |    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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.3460                                                            | -23.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | H               | 3.0              | 40.1            | 1.0          | -62.1       | -13.0       | -49.1      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |    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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| High Channel (847.5MHz)                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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    |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 1.6950                                                            | -20.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | V               | 3.0              | 39.1            | 1.0          | -58.8       | -13.0       | -45.8      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 2.5425                                                            | -23.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | V               | 3.0              | 39.6            | 1.0          | -61.6       | -13.0       | -48.6      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.3900                                                            | -22.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | V               | 3.0              | 40.2            | 1.0          | -61.9       | -13.0       | -48.9      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |    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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 1.6950                                                            | -26.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | H               | 3.0              | 39.1            | 1.0          | -64.6       | -13.0       | -51.6      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |    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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 2.5425                                                            | -22.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | H               | 3.0              | 39.6            | 1.0          | -60.8       | -13.0       | -47.8      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.3900                                                            | -22.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | H               | 3.0              | 40.2            | 1.0          | -61.8       | -13.0       | -48.8      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |    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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| <div>LTE</div> <div>Band 5</div> <div>3MHz</div> <div>16QAM</div> | <div> <div>UL Korea, Ltd Suwon Laboratory</div> <div>Above 1GHz High Frequency Substitution Measurement</div> <div> <div>Company: Samsung</div> <div>Project #: 16K22866</div> <div>Date: 03-07-16</div> <div>Test Engineer: Steven.Kim</div> <div>Configuration: EUT / AC Adapter / Earphone, Y Position</div> <div>Mode: TX LTE BAND 5, 3MHz BW,16QAM</div> </div> <div> <div>Chamber</div> <div>Chamber 2</div> </div> <div> <div>Pre-amplifier</div> <div>AFS42</div> </div> <div> <div>Filter</div> <div>Filter 1</div> </div> <div> <div>Limit</div> <div>Part 22</div> </div> <table> <tr> <th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (825.5MHz)</td></tr> <tr><td>1.6510</td><td>-21.9</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-60.0</td><td>-13.0</td><td>-47.0</td><td></td></tr> <tr><td>2.4765</td><td>-21.6</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-60.1</td><td>-13.0</td><td>-47.1</td><td></td></tr> <tr><td>3.3020</td><td>-23.1</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-62.2</td><td>-13.0</td><td>-49.2</td><td></td></tr> <tr><td>1.6510</td><td>-26.9</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-65.0</td><td>-13.0</td><td>-52.0</td><td></td></tr> <tr><td>2.4765</td><td>-21.5</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-60.0</td><td>-13.0</td><td>-47.0</td><td></td></tr> <tr><td>3.3020</td><td>-23.1</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-62.2</td><td>-13.0</td><td>-49.2</td><td></td></tr> <tr><td colspan="10">Mid Channel (836.5MHz)</td></tr> <tr><td>1.6730</td><td>-21.8</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-59.9</td><td>-13.0</td><td>-46.9</td><td></td></tr> <tr><td>2.5090</td><td>-20.2</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-58.7</td><td>-13.0</td><td>-45.7</td><td></td></tr> <tr><td>3.3460</td><td>-22.9</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-62.1</td><td>-13.0</td><td>-49.1</td><td></td></tr> <tr><td>1.6730</td><td>-26.0</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-64.1</td><td>-13.0</td><td>-51.1</td><td></td></tr> <tr><td>2.5090</td><td>-21.7</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-60.3</td><td>-13.0</td><td>-47.3</td><td></td></tr> <tr><td>3.3460</td><td>-22.8</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-61.9</td><td>-13.0</td><td>-48.9</td><td></td></tr> <tr><td colspan="10">High Channel (847.5MHz)</td></tr> <tr><td>1.6950</td><td>-22.3</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-60.4</td><td>-13.0</td><td>-47.4</td><td></td></tr> <tr><td>2.5425</td><td>-23.5</td><td>V</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-62.1</td><td>-13.0</td><td>-49.1</td><td></td></tr> <tr><td>3.3900</td><td>-22.8</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-62.0</td><td>-13.0</td><td>-49.0</td><td></td></tr> <tr><td>1.6950</td><td>-26.9</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-65.0</td><td>-13.0</td><td>-52.0</td><td></td></tr> <tr><td>2.5425</td><td>-23.6</td><td>H</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-62.1</td><td>-13.0</td><td>-49.1</td><td></td></tr> <tr><td>3.3900</td><td>-22.8</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-62.0</td><td>-13.0</td><td>-49.0</td><td></td></tr> </table> <div>Rev. 03.03.09</div> <div>Note: No other emissions were detected above the system noise floor.</div> </div> | f GHz           | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Low Channel (825.5MHz) |  |  |  |  |  |  |  |  |  | 1.6510 | -21.9 | V | 3.0 | 39.1 | 1.0 | -60.0 | -13.0 | -47.0 |  | 2.4765 | -21.6 | V | 3.0 | 39.5 | 1.0 | -60.1 | -13.0 | -47.1 |  | 3.3020 | -23.1 | V | 3.0 | 40.1 | 1.0 | -62.2 | -13.0 | -49.2 |  | 1.6510 | -26.9 | H | 3.0 | 39.1 | 1.0 | -65.0 | -13.0 | -52.0 |  | 2.4765 | -21.5 | H | 3.0 | 39.5 | 1.0 | -60.0 | -13.0 | -47.0 |  | 3.3020 | -23.1 | H | 3.0 | 40.1 | 1.0 | -62.2 | -13.0 | -49.2 |  | Mid Channel (836.5MHz) |  |  |  |  |  |  |  |  |  | 1.6730 | -21.8 | V | 3.0 | 39.1 | 1.0 | -59.9 | -13.0 | -46.9 |  | 2.5090 | -20.2 | V | 3.0 | 39.5 | 1.0 | -58.7 | -13.0 | -45.7 |  | 3.3460 | -22.9 | V | 3.0 | 40.1 | 1.0 | -62.1 | -13.0 | -49.1 |  | 1.6730 | -26.0 | H | 3.0 | 39.1 | 1.0 | -64.1 | -13.0 | -51.1 |  | 2.5090 | -21.7 | H | 3.0 | 39.5 | 1.0 | -60.3 | -13.0 | -47.3 |  | 3.3460 | -22.8 | H | 3.0 | 40.1 | 1.0 | -61.9 | -13.0 | -48.9 |  | High Channel (847.5MHz) |  |  |  |  |  |  |  |  |  | 1.6950 | -22.3 | V | 3.0 | 39.1 | 1.0 | -60.4 | -13.0 | -47.4 |  | 2.5425 | -23.5 | V | 3.0 | 39.6 | 1.0 | -62.1 | -13.0 | -49.1 |  | 3.3900 | -22.8 | V | 3.0 | 40.2 | 1.0 | -62.0 | -13.0 | -49.0 |  | 1.6950 | -26.9 | H | 3.0 | 39.1 | 1.0 | -65.0 | -13.0 | -52.0 |  | 2.5425 | -23.6 | H | 3.0 | 39.6 | 1.0 | -62.1 | -13.0 | -49.1 |  | 3.3900 | -22.8 | H | 3.0 | 40.2 | 1.0 | -62.0 | -13.0 | -49.0 |  |
| f GHz                                                             | SG reading (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Ant. Pol. (H/V) | Distance (m)     | Preamp (dB)     | Filter (dB)  | EIRP (dBm)  | Limit (dBm) | Delta (dB) | Notes       |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| Low Channel (825.5MHz)                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 1.6510                                                            | -21.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 2.4765                                                            | -21.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.3020                                                            | -23.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 1.6510                                                            | -26.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 2.4765                                                            | -21.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.3020                                                            | -23.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| Mid Channel (836.5MHz)                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 1.6730                                                            | -21.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 2.5090                                                            | -20.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | V               | 3.0              | 39.5            | 1.0          | -58.7       | -13.0       | -45.7      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |    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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.3460                                                            | -22.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | V               | 3.0              | 40.1            | 1.0          | -62.1       | -13.0       | -49.1      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |    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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 1.6730                                                            | -26.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | H               | 3.0              | 39.1            | 1.0          | -64.1       | -13.0       | -51.1      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |    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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 2.5090                                                            | -21.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | H               | 3.0              | 39.5            | 1.0          | -60.3       | -13.0       | -47.3      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |    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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.3460                                                            | -22.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | H               | 3.0              | 40.1            | 1.0          | -61.9       | -13.0       | -48.9      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| High Channel (847.5MHz)                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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    |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 1.6950                                                            | -22.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | V               | 3.0              | 39.1            | 1.0          | -60.4       | -13.0       | -47.4      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 2.5425                                                            | -23.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | V               | 3.0              | 39.6            | 1.0          | -62.1       | -13.0       | -49.1      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.3900                                                            | -22.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | V               | 3.0              | 40.2            | 1.0          | -62.0       | -13.0       | -49.0      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 1.6950                                                            | -26.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | H               | 3.0              | 39.1            | 1.0          | -65.0       | -13.0       | -52.0      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 2.5425                                                            | -23.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | H               | 3.0              | 39.6            | 1.0          | -62.1       | -13.0       | -49.1      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.3900                                                            | -22.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | H               | 3.0              | 40.2            | 1.0          | -62.0       | -13.0       | -49.0      |             |            |       |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |

LTE  
Band 5  
1.4MHz  
QPSK

UL Korea, Ltd Suwon Laboratory  
Above 1GHz High Frequency Substitution Measurement

Company: Samsung  
Project #: 16K22866  
Date: 03-07-16  
Test Engineer: Steven.Kim  
Configuration: EUT / AC Adapter / Earphone, Y Position  
Mode: TX, LTE BAND 5, 1.4MHz BW,QPSK

ChamberPre-amplifierFilterLimit

Chamber 2AFS42Filter 1Part 22

| f GHz                   | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|-------------------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Low Channel (824.7MHz)  |                  |                 |              |             |             |            |             |            |       |
| 1.6494                  | -19.2            | V               | 3.0          | 39.1        | 1.0         | -57.3      | -13.0       | -44.3      |       |
| 2.4741                  | -20.7            | V               | 3.0          | 39.5        | 1.0         | -59.3      | -13.0       | -46.3      |       |
| 3.2988                  | -23.0            | V               | 3.0          | 40.1        | 1.0         | -62.1      | -13.0       | -49.1      |       |
| 1.6494                  | -27.5            | H               | 3.0          | 39.1        | 1.0         | -65.6      | -13.0       | -52.6      |       |
| 2.4741                  | -20.0            | H               | 3.0          | 39.5        | 1.0         | -58.5      | -13.0       | -45.5      |       |
| 3.2988                  | -22.9            | H               | 3.0          | 40.1        | 1.0         | -62.0      | -13.0       | -49.0      |       |
| Mid Channel (836.5MHz)  |                  |                 |              |             |             |            |             |            |       |
| 1.6730                  | -22.9            | V               | 3.0          | 39.1        | 1.0         | -61.0      | -13.0       | -48.0      |       |
| 2.5090                  | -21.6            | V               | 3.0          | 39.5        | 1.0         | -60.2      | -13.0       | -47.2      |       |
| 3.3460                  | -22.7            | V               | 3.0          | 40.1        | 1.0         | -61.8      | -13.0       | -48.8      |       |
| 1.6730                  | -24.5            | H               | 3.0          | 39.1        | 1.0         | -62.6      | -13.0       | -49.6      |       |
| 2.5090                  | -19.4            | H               | 3.0          | 39.5        | 1.0         | -57.9      | -13.0       | -44.9      |       |
| 3.3460                  | -22.6            | H               | 3.0          | 40.1        | 1.0         | -61.7      | -13.0       | -48.7      |       |
| High Channel (848.3MHz) |                  |                 |              |             |             |            |             |            |       |
| 1.6966                  | -18.9            | V               | 3.0          | 39.1        | 1.0         | -57.0      | -13.0       | -44.0      |       |
| 2.5449                  | -23.2            | V               | 3.0          | 39.6        | 1.0         | -61.8      | -13.0       | -48.8      |       |
| 3.3932                  | -22.4            | V               | 3.0          | 40.2        | 1.0         | -61.6      | -13.0       | -48.6      |       |
| 1.6966                  | -25.7            | H               | 3.0          | 39.1        | 1.0         | -63.9      | -13.0       | -50.9      |       |
| 2.5449                  | -20.3            | H               | 3.0          | 39.6        | 1.0         | -58.8      | -13.0       | -45.8      |       |
| 3.3932                  | -22.2            | H               | 3.0          | 40.2        | 1.0         | -61.4      | -13.0       | -48.4      |       |

Rev. 03.03.09  
Note: No other emissions were detected above the system noise floor.

LTE  
Band 5  
1.4MHz  
16QAM

UL Korea, Ltd Suwon Laboratory  
Above 1GHz High Frequency Substitution Measurement

Company: Samsung  
Project #: 16K22866  
Date: 03-07-16  
Test Engineer: Steven.Kim  
Configuration: EUT / AC Adapter / Earphone, Y Position  
Mode: TX, LTE BAND 5, 1.4MHz BW,16QAM

ChamberPre-amplifierFilterLimit

Chamber 2AFS42Filter 1Part 22

| f GHz                   | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|-------------------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Low Channel (824.7MHz)  |                  |                 |              |             |             |            |             |            |       |
| 1.6494                  | -20.9            | V               | 3.0          | 39.1        | 1.0         | -59.0      | -13.0       | -46.0      |       |
| 2.4741                  | -22.3            | V               | 3.0          | 39.5        | 1.0         | -60.8      | -13.0       | -47.8      |       |
| 3.2988                  | -23.1            | V               | 3.0          | 40.1        | 1.0         | -62.2      | -13.0       | -49.2      |       |
| 1.6494                  | -27.2            | H               | 3.0          | 39.1        | 1.0         | -65.3      | -13.0       | -52.3      |       |
| 2.4741                  | -21.7            | H               | 3.0          | 39.5        | 1.0         | -60.2      | -13.0       | -47.2      |       |
| 3.2988                  | -23.0            | H               | 3.0          | 40.1        | 1.0         | -62.1      | -13.0       | -49.1      |       |
| Mid Channel (836.5MHz)  |                  |                 |              |             |             |            |             |            |       |
| 1.6730                  | -23.4            | V               | 3.0          | 39.1        | 1.0         | -61.5      | -13.0       | -48.5      |       |
| 2.5090                  | -22.2            | V               | 3.0          | 39.5        | 1.0         | -60.7      | -13.0       | -47.7      |       |
| 3.3460                  | -22.8            | V               | 3.0          | 40.1        | 1.0         | -62.0      | -13.0       | -49.0      |       |
| 1.6730                  | -25.6            | H               | 3.0          | 39.1        | 1.0         | -63.8      | -13.0       | -50.8      |       |
| 2.5090                  | -20.7            | H               | 3.0          | 39.5        | 1.0         | -59.3      | -13.0       | -46.3      |       |
| 3.3460                  | -22.9            | H               | 3.0          | 40.1        | 1.0         | -62.1      | -13.0       | -49.1      |       |
| High Channel (848.3MHz) |                  |                 |              |             |             |            |             |            |       |
| 1.6966                  | -21.0            | V               | 3.0          | 39.1        | 1.0         | -59.1      | -13.0       | -46.1      |       |
| 2.5449                  | -23.9            | V               | 3.0          | 39.6        | 1.0         | -62.4      | -13.0       | -49.4      |       |
| 3.3932                  | -22.6            | V               | 3.0          | 40.2        | 1.0         | -61.8      | -13.0       | -48.8      |       |
| 1.6966                  | -26.1            | H               | 3.0          | 39.1        | 1.0         | -64.2      | -13.0       | -51.2      |       |
| 2.5449                  | -21.4            | H               | 3.0          | 39.6        | 1.0         | -60.0      | -13.0       | -47.0      |       |
| 3.3932                  | -22.6            | H               | 3.0          | 40.2        | 1.0         | -61.8      | -13.0       | -48.8      |       |

Rev. 03.03.09  
Note: No other emissions were detected above the system noise floor.

# LTE Band 4

|                                                                                       |                                                                                      |                    |                        |                 |                    |                |                      |                |               |       |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------|------------------------|-----------------|--------------------|----------------|----------------------|----------------|---------------|-------|
| LTE<br><br>Band 4<br><br>20MHz<br><br>QPSK                                            | UL Korea, Ltd Suwon Laboratory<br>Above 1GHz High Frequency Substitution Measurement |                    |                        |                 |                    |                |                      |                |               |       |
|                                                                                       | Company: Samsung                                                                     |                    |                        |                 |                    |                |                      |                |               |       |
|                                                                                       | Project #: 16K22866                                                                  |                    |                        |                 |                    |                |                      |                |               |       |
|                                                                                       | Date: 02-29-16                                                                       |                    |                        |                 |                    |                |                      |                |               |       |
|                                                                                       | Test Engineer: Steven Kim                                                            |                    |                        |                 |                    |                |                      |                |               |       |
|                                                                                       | Configuration: EUT / AC Adapter / Ear Phone / Z-Position                             |                    |                        |                 |                    |                |                      |                |               |       |
|                                                                                       | Mode: TX, LTE BAND 4, 20MHz BW, QPSK                                                 |                    |                        |                 |                    |                |                      |                |               |       |
|                                                                                       | Chamber<br>Chamber 2                                                                 |                    | Pre-amplifier<br>AFS42 |                 | Filter<br>Filter 1 |                | Limit<br>FCC Part 27 |                |               |       |
|                                                                                       | f<br>GHz                                                                             | SGreading<br>(dBm) | Ant. Pol.<br>(H/V)     | Distance<br>(m) | Preamp<br>(dB)     | Filter<br>(dB) | ERP<br>(dBm)         | Limit<br>(dBm) | Delta<br>(dB) | Notes |
|                                                                                       | Low Channel (1720MHz)                                                                |                    |                        |                 |                    |                |                      |                |               |       |
| 3.4400                                                                                | -8.9                                                                                 | V                  | 3.0                    | 40.2            | 1.0                | -48.1          | -13.0                | -35.1          |               |       |
| 5.1600                                                                                | -10.4                                                                                | V                  | 3.0                    | 40.9            | 1.0                | -50.3          | -13.0                | -37.3          |               |       |
| 6.8800                                                                                | -14.2                                                                                | V                  | 3.0                    | 41.0            | 1.0                | -54.2          | -13.0                | -41.2          |               |       |
| 3.4400                                                                                | -12.4                                                                                | H                  | 3.0                    | 40.2            | 1.0                | -51.6          | -13.0                | -38.6          |               |       |
| 5.1600                                                                                | -13.7                                                                                | H                  | 3.0                    | 40.9            | 1.0                | -53.6          | -13.0                | -40.6          |               |       |
| 6.8800                                                                                | -12.5                                                                                | H                  | 3.0                    | 41.0            | 1.0                | -52.5          | -13.0                | -39.5          |               |       |
| Mid Channel (1732.5MHz)                                                               |                                                                                      |                    |                        |                 |                    |                |                      |                |               |       |
| 3.4650                                                                                | -8.5                                                                                 | V                  | 3.0                    | 40.3            | 1.0                | -47.7          | -13.0                | -34.7          |               |       |
| 5.1975                                                                                | -7.5                                                                                 | V                  | 3.0                    | 40.9            | 1.0                | -47.4          | -13.0                | -34.4          |               |       |
| 6.9300                                                                                | -14.9                                                                                | V                  | 3.0                    | 41.0            | 1.0                | -54.9          | -13.0                | -41.9          |               |       |
| 3.4650                                                                                | -11.6                                                                                | H                  | 3.0                    | 40.3            | 1.0                | -50.9          | -13.0                | -37.9          |               |       |
| 5.1975                                                                                | -12.2                                                                                | H                  | 3.0                    | 40.9            | 1.0                | -52.0          | -13.0                | -39.0          |               |       |
| 6.9300                                                                                | -11.4                                                                                | H                  | 3.0                    | 41.0            | 1.0                | -51.4          | -13.0                | -38.4          |               |       |
| High Channel (1745MHz)                                                                |                                                                                      |                    |                        |                 |                    |                |                      |                |               |       |
| 3.4900                                                                                | -7.2                                                                                 | V                  | 3.0                    | 40.3            | 1.0                | -46.5          | -13.0                | -33.5          |               |       |
| 5.2350                                                                                | -9.3                                                                                 | V                  | 3.0                    | 40.9            | 1.0                | -49.2          | -13.0                | -36.2          |               |       |
| 6.9800                                                                                | -14.8                                                                                | V                  | 3.0                    | 41.0            | 1.0                | -54.8          | -13.0                | -41.8          |               |       |
| 3.4900                                                                                | -8.4                                                                                 | H                  | 3.0                    | 40.3            | 1.0                | -47.7          | -13.0                | -34.7          |               |       |
| 5.2350                                                                                | -9.5                                                                                 | H                  | 3.0                    | 40.9            | 1.0                | -49.4          | -13.0                | -36.4          |               |       |
| 6.9800                                                                                | -11.9                                                                                | H                  | 3.0                    | 41.0            | 1.0                | -51.9          | -13.0                | -38.9          |               |       |
| Rev. 03.03.09<br>Note: No other emissions were detected above the system noise floor. |                                                                                      |                    |                        |                 |                    |                |                      |                |               |       |
| LTE<br><br>Band 4<br><br>20MHz<br><br>16QAM                                           | UL Korea, Ltd Suwon Laboratory<br>Above 1GHz High Frequency Substitution Measurement |                    |                        |                 |                    |                |                      |                |               |       |
|                                                                                       | Company: Samsung                                                                     |                    |                        |                 |                    |                |                      |                |               |       |
|                                                                                       | Project #: 16K22866                                                                  |                    |                        |                 |                    |                |                      |                |               |       |
|                                                                                       | Date: 02-29-16                                                                       |                    |                        |                 |                    |                |                      |                |               |       |
|                                                                                       | Test Engineer: Steven Kim                                                            |                    |                        |                 |                    |                |                      |                |               |       |
|                                                                                       | Configuration: EUT / AC Adapter / Ear Phone / Z-Position                             |                    |                        |                 |                    |                |                      |                |               |       |
|                                                                                       | Mode: TX, LTE BAND 4, 20MHz BW, 16QAM                                                |                    |                        |                 |                    |                |                      |                |               |       |
|                                                                                       | Chamber<br>Chamber 2                                                                 |                    | Pre-amplifier<br>AFS42 |                 | Filter<br>Filter 1 |                | Limit<br>FCC Part 27 |                |               |       |
|                                                                                       | f<br>GHz                                                                             | SGreading<br>(dBm) | Ant. Pol.<br>(H/V)     | Distance<br>(m) | Preamp<br>(dB)     | Filter<br>(dB) | ERP<br>(dBm)         | Limit<br>(dBm) | Delta<br>(dB) | Notes |
|                                                                                       | Low Channel (1720MHz)                                                                |                    |                        |                 |                    |                |                      |                |               |       |
| 3.4400                                                                                | -10.7                                                                                | V                  | 3.0                    | 40.2            | 1.0                | -49.9          | -13.0                | -36.9          |               |       |
| 5.1600                                                                                | -11.8                                                                                | V                  | 3.0                    | 40.9            | 1.0                | -51.7          | -13.0                | -38.7          |               |       |
| 6.8800                                                                                | -14.9                                                                                | V                  | 3.0                    | 41.0            | 1.0                | -54.9          | -13.0                | -41.9          |               |       |
| 3.4400                                                                                | -14.0                                                                                | H                  | 3.0                    | 40.2            | 1.0                | -53.2          | -13.0                | -40.2          |               |       |
| 5.1600                                                                                | -16.1                                                                                | H                  | 3.0                    | 40.9            | 1.0                | -56.0          | -13.0                | -43.0          |               |       |
| 6.8800                                                                                | -13.7                                                                                | H                  | 3.0                    | 41.0            | 1.0                | -53.7          | -13.0                | -40.7          |               |       |
| Mid Channel (1732.5MHz)                                                               |                                                                                      |                    |                        |                 |                    |                |                      |                |               |       |
| 3.4650                                                                                | -9.2                                                                                 | V                  | 3.0                    | 40.3            | 1.0                | -48.4          | -13.0                | -35.4          |               |       |
| 5.1975                                                                                | -9.6                                                                                 | V                  | 3.0                    | 40.9            | 1.0                | -49.5          | -13.0                | -36.5          |               |       |
| 6.9300                                                                                | -15.3                                                                                | V                  | 3.0                    | 41.0            | 1.0                | -55.3          | -13.0                | -42.3          |               |       |
| 3.4650                                                                                | -10.7                                                                                | H                  | 3.0                    | 40.3            | 1.0                | -49.9          | -13.0                | -36.9          |               |       |
| 5.1975                                                                                | -12.5                                                                                | H                  | 3.0                    | 40.9            | 1.0                | -52.4          | -13.0                | -39.4          |               |       |
| 6.9300                                                                                | -12.1                                                                                | H                  | 3.0                    | 41.0            | 1.0                | -52.1          | -13.0                | -39.1          |               |       |
| High Channel (1745MHz)                                                                |                                                                                      |                    |                        |                 |                    |                |                      |                |               |       |
| 3.4900                                                                                | -8.9                                                                                 | V                  | 3.0                    | 40.3            | 1.0                | -48.2          | -13.0                | -35.2          |               |       |
| 5.2350                                                                                | -8.1                                                                                 | V                  | 3.0                    | 40.9            | 1.0                | -48.0          | -13.0                | -35.0          |               |       |
| 6.9800                                                                                | -15.0                                                                                | V                  | 3.0                    | 41.0            | 1.0                | -55.0          | -13.0                | -42.0          |               |       |
| 3.4900                                                                                | -10.3                                                                                | H                  | 3.0                    | 40.3            | 1.0                | -49.5          | -13.0                | -36.5          |               |       |
| 5.2350                                                                                | -11.1                                                                                | H                  | 3.0                    | 40.9            | 1.0                | -51.0          | -13.0                | -38.0          |               |       |
| 6.9800                                                                                | -13.1                                                                                | H                  | 3.0                    | 41.0            | 1.0                | -53.1          | -13.0                | -40.1          |               |       |
| Rev. 03.03.09<br>Note: No other emissions were detected above the system noise floor. |                                                                                      |                    |                        |                 |                    |                |                      |                |               |       |

| <div>LTE</div> <div>Band 4</div> <div>15MHz</div> <div>QPSK</div>    | <div> <div>UL Korea, Ltd Suwon Laboratory</div> <div>Above 1GHz High Frequency Substitution Measurement</div> <div> <div>Company:</div> <div>Project #:</div> <div>Date:</div> <div>Test Engineer:</div> <div>Configuration:</div> <div>Mode:</div> </div> <div> <div>Samsung</div> <div>16K22866</div> <div>02-29-16</div> <div>Steven Kim</div> <div>EUT / AC Adapter / Ear Phone / Z-Position</div> <div>TX, LTE BAND 4, 15MHz BW,QPSK</div> </div> </div> <div> <div>Chamber</div> <div>Chamber 2</div> </div> <div> <div>Pre-amplifier</div> <div>AFS42</div> </div> <div> <div>Filter</div> <div>Filter 1</div> </div> <div> <div>Limit</div> <div>FCC Part 27</div> </div> <table> <tr> <th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (1717.5MHz)</td></tr> <tr><td>3.4350</td><td>-9.0</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-48.2</td><td>-13.0</td><td>-35.2</td><td></td></tr> <tr><td>5.1525</td><td>-11.3</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.2</td><td>-13.0</td><td>-38.2</td><td></td></tr> <tr><td>6.8700</td><td>-14.9</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr> <tr><td>3.4350</td><td>-11.5</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-50.8</td><td>-13.0</td><td>-37.8</td><td></td></tr> <tr><td>5.1525</td><td>-12.9</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr> <tr><td>6.8700</td><td>-11.9</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-51.9</td><td>-13.0</td><td>-38.9</td><td></td></tr> <tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr> <tr><td>3.4650</td><td>-8.5</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-47.8</td><td>-13.0</td><td>-34.8</td><td></td></tr> <tr><td>5.1975</td><td>-11.0</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.9</td><td>-13.0</td><td>-37.9</td><td></td></tr> <tr><td>6.9300</td><td>-16.2</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-56.2</td><td>-13.0</td><td>-43.2</td><td></td></tr> <tr><td>3.4650</td><td>-12.7</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-52.0</td><td>-13.0</td><td>-39.0</td><td></td></tr> <tr><td>5.1975</td><td>-14.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-53.9</td><td>-13.0</td><td>-40.9</td><td></td></tr> <tr><td>6.9300</td><td>-15.3</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.3</td><td>-13.0</td><td>-42.3</td><td></td></tr> <tr><td colspan="10">High Channel (1747.5MHz)</td></tr> <tr><td>3.4950</td><td>-5.7</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-45.0</td><td>-13.0</td><td>-32.0</td><td></td></tr> <tr><td>5.2425</td><td>-9.4</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.3</td><td>-13.0</td><td>-36.3</td><td></td></tr> <tr><td>6.9900</td><td>-16.5</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-56.5</td><td>-13.0</td><td>-43.5</td><td></td></tr> <tr><td>3.4950</td><td>-10.6</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-49.9</td><td>-13.0</td><td>-36.9</td><td></td></tr> <tr><td>5.2425</td><td>-11.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.9</td><td>-13.0</td><td>-37.9</td><td></td></tr> <tr><td>6.9900</td><td>-12.8</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr> <tr><td colspan="10">Rev. 03.03.09</td></tr> <tr><td colspan="10">Note: No other emissions were detected above the system noise floor.</td></tr> </table>     | f GHz           | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm)  | Limit (dBm) | Delta (dB) | Notes | Low Channel (1717.5MHz) |  |  |  |  |  |  |  |  |  | 3.4350 | -9.0  | V | 3.0 | 40.2 | 1.0 | -48.2 | -13.0 | -35.2 |  | 5.1525 | -11.3 | V | 3.0 | 40.9 | 1.0 | -51.2 | -13.0 | -38.2 |  | 6.8700 | -14.9 | V | 3.0 | 41.0 | 1.0 | -54.8 | -13.0 | -41.8 |  | 3.4350 | -11.5 | H | 3.0 | 40.2 | 1.0 | -50.8 | -13.0 | -37.8 |  | 5.1525 | -12.9 | H | 3.0 | 40.9 | 1.0 | -52.8 | -13.0 | -39.8 |  | 6.8700 | -11.9 | H | 3.0 | 41.0 | 1.0 | -51.9 | -13.0 | -38.9 |  | Mid Channel (1732.5MHz) |  |  |  |  |  |  |  |  |  | 3.4650 | -8.5  | V | 3.0 | 40.3 | 1.0 | -47.8 | -13.0 | -34.8 |  | 5.1975 | -11.0 | V | 3.0 | 40.9 | 1.0 | -50.9 | -13.0 | -37.9 |  | 6.9300 | -16.2 | V | 3.0 | 41.0 | 1.0 | -56.2 | -13.0 | -43.2 |  | 3.4650 | -12.7 | H | 3.0 | 40.3 | 1.0 | -52.0 | -13.0 | -39.0 |  | 5.1975 | -14.1 | H | 3.0 | 40.9 | 1.0 | -53.9 | -13.0 | -40.9 |  | 6.9300 | -15.3 | H | 3.0 | 41.0 | 1.0 | -55.3 | -13.0 | -42.3 |  | High Channel (1747.5MHz) |  |  |  |  |  |  |  |  |  | 3.4950 | -5.7 | V | 3.0 | 40.3 | 1.0 | -45.0 | -13.0 | -32.0 |  | 5.2425 | -9.4  | V | 3.0 | 40.9 | 1.0 | -49.3 | -13.0 | -36.3 |  | 6.9900 | -16.5 | V | 3.0 | 41.0 | 1.0 | -56.5 | -13.0 | -43.5 |  | 3.4950 | -10.6 | H | 3.0 | 40.3 | 1.0 | -49.9 | -13.0 | -36.9 |  | 5.2425 | -11.1 | H | 3.0 | 40.9 | 1.0 | -50.9 | -13.0 | -37.9 |  | 6.9900 | -12.8 | H | 3.0 | 41.0 | 1.0 | -52.8 | -13.0 | -39.8 |  | Rev. 03.03.09 |  |  |  |  |  |  |  |  |  | Note: No other emissions were detected above the system noise floor. |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|-------------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|-------------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------------------------|--|--|--|--|--|--|--|--|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|---------------|--|--|--|--|--|--|--|--|--|----------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| f GHz                                                                | SGreading (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Ant. Pol. (H/V) | Distance (m)    | Preamp (dB)     | Filter (dB)  | ERP (dBm)   | Limit (dBm) | Delta (dB) | Notes       |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| Low Channel (1717.5MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |                 |                 |              |             |             |            |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| 3.4350                                                               | -9.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | V               | 3.0             | 40.2            | 1.0          | -48.2       | -13.0       | -35.2      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 5.1525                                                               | -11.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 6.8700                                                               | -14.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | V               | 3.0             | 41.0            | 1.0          | -54.8       | -13.0       | -41.8      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 3.4350                                                               | -11.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | H               | 3.0             | 40.2            | 1.0          | -50.8       | -13.0       | -37.8      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 5.1525                                                               | -12.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 6.8700                                                               | -11.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | H               | 3.0             | 41.0            | 1.0          | -51.9       | -13.0       | -38.9      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| Mid Channel (1732.5MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 3.4650                                                               | -8.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | V               | 3.0             | 40.3            | 1.0          | -47.8       | -13.0       | -34.8      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 5.1975                                                               | -11.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | V               | 3.0             | 40.9            | 1.0          | -50.9       | -13.0       | -37.9      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 6.9300                                                               | -16.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 3.4650                                                               | -12.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | H               | 3.0             | 40.3            | 1.0          | -52.0       | -13.0       | -39.0      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 5.1975                                                               | -14.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | H               | 3.0             | 40.9            | 1.0          | -53.9       | -13.0       | -40.9      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 6.9300                                                               | -15.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | H               | 3.0             | 41.0            | 1.0          | -55.3       | -13.0       | -42.3      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| High Channel (1747.5MHz)                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 3.4950                                                               | -5.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | V               | 3.0             | 40.3            | 1.0          | -45.0       | -13.0       | -32.0      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 5.2425                                                               | -9.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | V               | 3.0             | 40.9            | 1.0          | -49.3       | -13.0       | -36.3      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 6.9900                                                               | -16.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 3.4950                                                               | -10.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | H               | 3.0             | 40.3            | 1.0          | -49.9       | -13.0       | -36.9      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 5.2425                                                               | -11.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | H               | 3.0             | 40.9            | 1.0          | -50.9       | -13.0       | -37.9      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 6.9900                                                               | -12.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | H               | 3.0             | 41.0            | 1.0          | -52.8       | -13.0       | -39.8      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| Rev. 03.03.09                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Note: No other emissions were detected above the system noise floor. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| <div>LTE</div> <div>Band 4</div> <div>15MHz</div> <div>16QAM</div>   | <div> <div>UL Korea, Ltd Suwon Laboratory</div> <div>Above 1GHz High Frequency Substitution Measurement</div> <div> <div>Company:</div> <div>Project #:</div> <div>Date:</div> <div>Test Engineer:</div> <div>Configuration:</div> <div>Mode:</div> </div> <div> <div>Samsung</div> <div>16K22866</div> <div>02-29-16</div> <div>Steven Kim</div> <div>EUT / AC Adapter / Ear Phone / Z-Position</div> <div>TX, LTE BAND 4, 15MHz BW,16QAM</div> </div> </div> <div> <div>Chamber</div> <div>Chamber 2</div> </div> <div> <div>Pre-amplifier</div> <div>AFS42</div> </div> <div> <div>Filter</div> <div>Filter 1</div> </div> <div> <div>Limit</div> <div>FCC Part 27</div> </div> <table> <tr> <th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (1717.5MHz)</td></tr> <tr><td>3.4350</td><td>-10.7</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-50.0</td><td>-13.0</td><td>-37.0</td><td></td></tr> <tr><td>5.1525</td><td>-12.4</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-52.3</td><td>-13.0</td><td>-39.3</td><td></td></tr> <tr><td>6.8700</td><td>-15.1</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.1</td><td>-13.0</td><td>-42.1</td><td></td></tr> <tr><td>3.4350</td><td>-10.3</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-49.5</td><td>-13.0</td><td>-36.5</td><td></td></tr> <tr><td>5.1525</td><td>-14.5</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-54.4</td><td>-13.0</td><td>-41.4</td><td></td></tr> <tr><td>6.8700</td><td>-12.7</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.6</td><td>-13.0</td><td>-39.6</td><td></td></tr> <tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr> <tr><td>3.4650</td><td>-10.1</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-49.4</td><td>-13.0</td><td>-36.4</td><td></td></tr> <tr><td>5.1975</td><td>-13.1</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr> <tr><td>6.9300</td><td>-16.2</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-56.2</td><td>-13.0</td><td>-43.2</td><td></td></tr> <tr><td>3.4650</td><td>-10.9</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-50.2</td><td>-13.0</td><td>-37.2</td><td></td></tr> <tr><td>5.1975</td><td>-15.5</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-55.4</td><td>-13.0</td><td>-42.4</td><td></td></tr> <tr><td>6.9300</td><td>-14.7</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.7</td><td>-13.0</td><td>-41.7</td><td></td></tr> <tr><td colspan="10">High Channel (1747.5MHz)</td></tr> <tr><td>3.4950</td><td>-8.1</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-47.4</td><td>-13.0</td><td>-34.4</td><td></td></tr> <tr><td>5.2425</td><td>-11.7</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.5</td><td>-13.0</td><td>-38.5</td><td></td></tr> <tr><td>6.9900</td><td>-16.5</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-56.5</td><td>-13.0</td><td>-43.5</td><td></td></tr> <tr><td>3.4950</td><td>-12.5</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-51.8</td><td>-13.0</td><td>-38.8</td><td></td></tr> <tr><td>5.2425</td><td>-13.8</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr> <tr><td>6.9900</td><td>-13.8</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.8</td><td>-13.0</td><td>-40.8</td><td></td></tr> <tr><td colspan="10">Rev. 03.03.09</td></tr> <tr><td colspan="10">Note: No other emissions were detected above the system noise floor.</td></tr> </table> | f GHz           | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm)  | Limit (dBm) | Delta (dB) | Notes | Low Channel (1717.5MHz) |  |  |  |  |  |  |  |  |  | 3.4350 | -10.7 | V | 3.0 | 40.2 | 1.0 | -50.0 | -13.0 | -37.0 |  | 5.1525 | -12.4 | V | 3.0 | 40.9 | 1.0 | -52.3 | -13.0 | -39.3 |  | 6.8700 | -15.1 | V | 3.0 | 41.0 | 1.0 | -55.1 | -13.0 | -42.1 |  | 3.4350 | -10.3 | H | 3.0 | 40.2 | 1.0 | -49.5 | -13.0 | -36.5 |  | 5.1525 | -14.5 | H | 3.0 | 40.9 | 1.0 | -54.4 | -13.0 | -41.4 |  | 6.8700 | -12.7 | H | 3.0 | 41.0 | 1.0 | -52.6 | -13.0 | -39.6 |  | Mid Channel (1732.5MHz) |  |  |  |  |  |  |  |  |  | 3.4650 | -10.1 | V | 3.0 | 40.3 | 1.0 | -49.4 | -13.0 | -36.4 |  | 5.1975 | -13.1 | V | 3.0 | 40.9 | 1.0 | -53.0 | -13.0 | -40.0 |  | 6.9300 | -16.2 | V | 3.0 | 41.0 | 1.0 | -56.2 | -13.0 | -43.2 |  | 3.4650 | -10.9 | H | 3.0 | 40.3 | 1.0 | -50.2 | -13.0 | -37.2 |  | 5.1975 | -15.5 | H | 3.0 | 40.9 | 1.0 | -55.4 | -13.0 | -42.4 |  | 6.9300 | -14.7 | H | 3.0 | 41.0 | 1.0 | -54.7 | -13.0 | -41.7 |  | High Channel (1747.5MHz) |  |  |  |  |  |  |  |  |  | 3.4950 | -8.1 | V | 3.0 | 40.3 | 1.0 | -47.4 | -13.0 | -34.4 |  | 5.2425 | -11.7 | V | 3.0 | 40.9 | 1.0 | -51.5 | -13.0 | -38.5 |  | 6.9900 | -16.5 | V | 3.0 | 41.0 | 1.0 | -56.5 | -13.0 | -43.5 |  | 3.4950 | -12.5 | H | 3.0 | 40.3 | 1.0 | -51.8 | -13.0 | -38.8 |  | 5.2425 | -13.8 | H | 3.0 | 40.9 | 1.0 | -53.7 | -13.0 | -40.7 |  | 6.9900 | -13.8 | H | 3.0 | 41.0 | 1.0 | -53.8 | -13.0 | -40.8 |  | Rev. 03.03.09 |  |  |  |  |  |  |  |  |  | Note: No other emissions were detected above the system noise floor. |  |  |  |  |  |  |  |  |  |
| f GHz                                                                | SGreading (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Ant. Pol. (H/V) | Distance (m)    | Preamp (dB)     | Filter (dB)  | ERP (dBm)   | Limit (dBm) | Delta (dB) | Notes       |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| Low Channel (1717.5MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 3.4350                                                               | -10.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | V               | 3.0             | 40.2            | 1.0          | -50.0       | -13.0       | -37.0      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| 5.1525                                                               | -12.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | V               | 3.0             | 40.9            | 1.0          | -52.3       | -13.0       | -39.3      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| 6.8700                                                               | -15.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | V               | 3.0             | 41.0            | 1.0          | -55.1       | -13.0       | -42.1      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| 3.4350                                                               | -10.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | H               | 3.0             | 40.2            | 1.0          | -49.5       | -13.0       | -36.5      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 5.1525                                                               | -14.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | H               | 3.0             | 40.9            | 1.0          | -54.4       | -13.0       | -41.4      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 6.8700                                                               | -12.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | H               | 3.0             | 41.0            | 1.0          | -52.6       | -13.0       | -39.6      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| Mid Channel (1732.5MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 3.4650                                                               | -10.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 5.1975                                                               | -13.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | V               | 3.0             | 40.9            | 1.0          | -53.0       | -13.0       | -40.0      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 6.9300                                                               | -16.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 3.4650                                                               | -10.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | H               | 3.0             | 40.3            | 1.0          | -50.2       | -13.0       | -37.2      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 5.1975                                                               | -15.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 6.9300                                                               | -14.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| High Channel (1747.5MHz)                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 3.4950                                                               | -8.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | V               | 3.0             | 40.3            | 1.0          | -47.4       | -13.0       | -34.4      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 5.2425                                                               | -11.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | V               | 3.0             | 40.9            | 1.0          | -51.5       | -13.0       | -38.5      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 6.9900                                                               | -16.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | V               | 3.0             | 41.0            | 1.0          | -56.5       | -13.0       | -43.5      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 3.4950                                                               | -12.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | H               | 3.0             | 40.3            | 1.0          | -51.8       | -13.0       | -38.8      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 5.2425                                                               | -13.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| 6.9900                                                               | -13.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | H               | 3.0             | 41.0            | 1.0          | -53.8       | -13.0       | -40.8      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| Rev. 03.03.09                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |     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| Note: No other emissions were detected above the system noise floor. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| <div>LTE</div> <div>Band 4</div> <div>10MHz</div> <div>QPSK</div>  | <div> <div>UL Korea, Ltd Suwon Laboratory</div> <div>Above 1GHz High Frequency Substitution Measurement</div> <div> <div>Company: Samsung</div> <div>Project#: 16K22866</div> <div>Date: 02-29-16</div> <div>Test Engineer: Steven Kim</div> <div>Configuration: EUT / AC Adapter / Ear Phone / Z-Position</div> <div>Mode: TX, LTE BAND 4, 10MHz BW, QPSK</div> </div> <div> <div>Chamber</div> <div>Chamber 2</div> </div> <div> <div>Pre-amplifier</div> <div>AFS42</div> </div> <div> <div>Filter</div> <div>Filter 1</div> </div> <div> <div>Limit</div> <div>FCC Part 27</div> </div> <table> <tr> <th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (1715MHz)</td></tr> <tr><td>3.4300</td><td>-9.5</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-48.7</td><td>-13.0</td><td>-35.7</td><td></td></tr> <tr><td>5.1450</td><td>-12.1</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-52.0</td><td>-13.0</td><td>-39.0</td><td></td></tr> <tr><td>6.8600</td><td>-13.6</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.5</td><td>-13.0</td><td>-40.5</td><td></td></tr> <tr><td>3.4300</td><td>-11.3</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-50.5</td><td>-13.0</td><td>-37.5</td><td></td></tr> <tr><td>5.1450</td><td>-12.5</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-52.4</td><td>-13.0</td><td>-39.4</td><td></td></tr> <tr><td>6.8600</td><td>-11.4</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-51.4</td><td>-13.0</td><td>-38.4</td><td></td></tr> <tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr> <tr><td>3.4650</td><td>-7.8</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-47.1</td><td>-13.0</td><td>-34.1</td><td></td></tr> <tr><td>5.1975</td><td>-10.5</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.4</td><td>-13.0</td><td>-37.4</td><td></td></tr> <tr><td>6.9300</td><td>-15.6</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.6</td><td>-13.0</td><td>-42.6</td><td></td></tr> <tr><td>3.4650</td><td>-11.8</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-51.0</td><td>-13.0</td><td>-38.0</td><td></td></tr> <tr><td>5.1975</td><td>-11.4</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.3</td><td>-13.0</td><td>-38.3</td><td></td></tr> <tr><td>6.9300</td><td>-15.6</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.6</td><td>-13.0</td><td>-42.6</td><td></td></tr> <tr><td colspan="10">High Channel (1750MHz)</td></tr> <tr><td>3.5000</td><td>-6.6</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-45.8</td><td>-13.0</td><td>-32.8</td><td></td></tr> <tr><td>5.2500</td><td>-9.2</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.1</td><td>-13.0</td><td>-36.1</td><td></td></tr> <tr><td>7.0000</td><td>-15.1</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.1</td><td>-13.0</td><td>-42.1</td><td></td></tr> <tr><td>3.5000</td><td>-10.8</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-50.1</td><td>-13.0</td><td>-37.1</td><td></td></tr> <tr><td>5.2500</td><td>-12.0</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.9</td><td>-13.0</td><td>-38.9</td><td></td></tr> <tr><td>7.0000</td><td>-12.5</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr> </table> <div>Rev. 03.03.09</div> <div>Note: No other emissions were detected above the system noise floor.</div> </div>    | f GHz           | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm)  | Limit (dBm) | Delta (dB) | Notes | Low Channel (1715MHz) |  |  |  |  |  |  |  |  |  | 3.4300 | -9.5  | V | 3.0 | 40.2 | 1.0 | -48.7 | -13.0 | -35.7 |  | 5.1450 | -12.1 | V | 3.0 | 40.9 | 1.0 | -52.0 | -13.0 | -39.0 |  | 6.8600 | -13.6 | V | 3.0 | 41.0 | 1.0 | -53.5 | -13.0 | -40.5 |  | 3.4300 | -11.3 | H | 3.0 | 40.2 | 1.0 | -50.5 | -13.0 | -37.5 |  | 5.1450 | -12.5 | H | 3.0 | 40.9 | 1.0 | -52.4 | -13.0 | -39.4 |  | 6.8600 | -11.4 | H | 3.0 | 41.0 | 1.0 | -51.4 | -13.0 | -38.4 |  | Mid Channel (1732.5MHz) |  |  |  |  |  |  |  |  |  | 3.4650 | -7.8 | V | 3.0 | 40.3 | 1.0 | -47.1 | -13.0 | -34.1 |  | 5.1975 | -10.5 | V | 3.0 | 40.9 | 1.0 | -50.4 | -13.0 | -37.4 |  | 6.9300 | -15.6 | V | 3.0 | 41.0 | 1.0 | -55.6 | -13.0 | -42.6 |  | 3.4650 | -11.8 | H | 3.0 | 40.3 | 1.0 | -51.0 | -13.0 | -38.0 |  | 5.1975 | -11.4 | H | 3.0 | 40.9 | 1.0 | -51.3 | -13.0 | -38.3 |  | 6.9300 | -15.6 | H | 3.0 | 41.0 | 1.0 | -55.6 | -13.0 | -42.6 |  | High Channel (1750MHz) |  |  |  |  |  |  |  |  |  | 3.5000 | -6.6 | V | 3.0 | 40.3 | 1.0 | -45.8 | -13.0 | -32.8 |  | 5.2500 | -9.2  | V | 3.0 | 40.9 | 1.0 | -49.1 | -13.0 | -36.1 |  | 7.0000 | -15.1 | V | 3.0 | 41.0 | 1.0 | -55.1 | -13.0 | -42.1 |  | 3.5000 | -10.8 | H | 3.0 | 40.3 | 1.0 | -50.1 | -13.0 | -37.1 |  | 5.2500 | -12.0 | H | 3.0 | 40.9 | 1.0 | -51.9 | -13.0 | -38.9 |  | 7.0000 | -12.5 | H | 3.0 | 41.0 | 1.0 | -52.5 | -13.0 | -39.5 |  |
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--|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|
| f GHz                                                              | SGreading (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ant. Pol. (H/V) | Distance (m)    | Preamp (dB)     | Filter (dB)  | ERP (dBm)   | Limit (dBm) | Delta (dB) | Notes       |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| Low Channel (1715MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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      |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.4300                                                             | -9.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0             | 40.2            | 1.0          | -48.7       | -13.0       | -35.7      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |  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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.1450                                                             | -12.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 6.8600                                                             | -13.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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      |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.4300                                                             | -11.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.1450                                                             | -12.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H               | 3.0             | 40.9            | 1.0          | -52.4       | -13.0       | -39.4      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |  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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 6.8600                                                             | -11.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Mid Channel (1732.5MHz)                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.4650                                                             | -7.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.1975                                                             | -10.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V               | 3.0             | 40.9            | 1.0          | -50.4       | -13.0       | -37.4      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |  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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 6.9300                                                             | -15.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V               | 3.0             | 41.0            | 1.0          | -55.6       | -13.0       | -42.6      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |  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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.4650                                                             | -11.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H               | 3.0             | 40.3            | 1.0          | -51.0       | -13.0       | -38.0      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |  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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.1975                                                             | -11.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H               | 3.0             | 40.9            | 1.0          | -51.3       | -13.0       | -38.3      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |  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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 6.9300                                                             | -15.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H               | 3.0             | 41.0            | 1.0          | -55.6       | -13.0       | -42.6      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |  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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| High Channel (1750MHz)                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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      |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.5000                                                             | -6.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0             | 40.3            | 1.0          | -45.8       | -13.0       | -32.8      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |  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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.2500                                                             | -9.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0             | 40.9            | 1.0          | -49.1       | -13.0       | -36.1      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.0000                                                             | -15.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V               | 3.0             | 41.0            | 1.0          | -55.1       | -13.0       | -42.1      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |  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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.5000                                                             | -10.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H               | 3.0             | 40.3            | 1.0          | -50.1       | -13.0       | -37.1      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.2500                                                             | -12.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H               | 3.0             | 40.9            | 1.0          | -51.9       | -13.0       | -38.9      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.0000                                                             | -12.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H               | 3.0             | 41.0            | 1.0          | -52.5       | -13.0       | -39.5      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |  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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| <div>LTE</div> <div>Band 4</div> <div>10MHz</div> <div>16QAM</div> | <div> <div>UL Korea, Ltd Suwon Laboratory</div> <div>Above 1GHz High Frequency Substitution Measurement</div> <div> <div>Company: Samsung</div> <div>Project#: 16K22866</div> <div>Date: 02-29-16</div> <div>Test Engineer: Steven Kim</div> <div>Configuration: EUT / AC Adapter / Ear Phone / Z-Position</div> <div>Mode: TX, LTE BAND 4, 10MHz BW, 16QAM</div> </div> <div> <div>Chamber</div> <div>Chamber 2</div> </div> <div> <div>Pre-amplifier</div> <div>AFS42</div> </div> <div> <div>Filter</div> <div>Filter 1</div> </div> <div> <div>Limit</div> <div>FCC Part 27</div> </div> <table> <tr> <th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (1715MHz)</td></tr> <tr><td>3.4300</td><td>-10.6</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-49.9</td><td>-13.0</td><td>-36.9</td><td></td></tr> <tr><td>5.1450</td><td>-13.7</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr> <tr><td>6.8600</td><td>-14.2</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.2</td><td>-13.0</td><td>-41.2</td><td></td></tr> <tr><td>3.4300</td><td>-12.6</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-51.9</td><td>-13.0</td><td>-38.9</td><td></td></tr> <tr><td>5.1450</td><td>-14.2</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-54.1</td><td>-13.0</td><td>-41.1</td><td></td></tr> <tr><td>6.8600</td><td>-11.7</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-51.7</td><td>-13.0</td><td>-38.7</td><td></td></tr> <tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr> <tr><td>3.4650</td><td>-9.7</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-48.9</td><td>-13.0</td><td>-35.9</td><td></td></tr> <tr><td>5.1975</td><td>-12.1</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-52.0</td><td>-13.0</td><td>-39.0</td><td></td></tr> <tr><td>6.9300</td><td>-15.8</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.8</td><td>-13.0</td><td>-42.8</td><td></td></tr> <tr><td>3.4650</td><td>-13.3</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-52.6</td><td>-13.0</td><td>-39.6</td><td></td></tr> <tr><td>5.1975</td><td>-13.0</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-52.9</td><td>-13.0</td><td>-39.9</td><td></td></tr> <tr><td>6.9300</td><td>-15.6</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.6</td><td>-13.0</td><td>-42.6</td><td></td></tr> <tr><td colspan="10">High Channel (1750MHz)</td></tr> <tr><td>3.5000</td><td>-8.1</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-47.4</td><td>-13.0</td><td>-34.4</td><td></td></tr> <tr><td>5.2500</td><td>-10.9</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.8</td><td>-13.0</td><td>-37.8</td><td></td></tr> <tr><td>7.0000</td><td>-15.5</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.6</td><td>-13.0</td><td>-42.6</td><td></td></tr> <tr><td>3.5000</td><td>-12.4</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-51.7</td><td>-13.0</td><td>-38.7</td><td></td></tr> <tr><td>5.2500</td><td>-13.4</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-53.2</td><td>-13.0</td><td>-40.2</td><td></td></tr> <tr><td>7.0000</td><td>-13.1</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.1</td><td>-13.0</td><td>-40.1</td><td></td></tr> </table> <div>Rev. 03.03.09</div> <div>Note: No other emissions were detected above the system noise floor.</div> </div> | f GHz           | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm)  | Limit (dBm) | Delta (dB) | Notes | Low Channel (1715MHz) |  |  |  |  |  |  |  |  |  | 3.4300 | -10.6 | V | 3.0 | 40.2 | 1.0 | -49.9 | -13.0 | -36.9 |  | 5.1450 | -13.7 | V | 3.0 | 40.9 | 1.0 | -53.6 | -13.0 | -40.6 |  | 6.8600 | -14.2 | V | 3.0 | 41.0 | 1.0 | -54.2 | -13.0 | -41.2 |  | 3.4300 | -12.6 | H | 3.0 | 40.2 | 1.0 | -51.9 | -13.0 | -38.9 |  | 5.1450 | -14.2 | H | 3.0 | 40.9 | 1.0 | -54.1 | -13.0 | -41.1 |  | 6.8600 | -11.7 | H | 3.0 | 41.0 | 1.0 | -51.7 | -13.0 | -38.7 |  | Mid Channel (1732.5MHz) |  |  |  |  |  |  |  |  |  | 3.4650 | -9.7 | V | 3.0 | 40.3 | 1.0 | -48.9 | -13.0 | -35.9 |  | 5.1975 | -12.1 | V | 3.0 | 40.9 | 1.0 | -52.0 | -13.0 | -39.0 |  | 6.9300 | -15.8 | V | 3.0 | 41.0 | 1.0 | -55.8 | -13.0 | -42.8 |  | 3.4650 | -13.3 | H | 3.0 | 40.3 | 1.0 | -52.6 | -13.0 | -39.6 |  | 5.1975 | -13.0 | H | 3.0 | 40.9 | 1.0 | -52.9 | -13.0 | -39.9 |  | 6.9300 | -15.6 | H | 3.0 | 41.0 | 1.0 | -55.6 | -13.0 | -42.6 |  | High Channel (1750MHz) |  |  |  |  |  |  |  |  |  | 3.5000 | -8.1 | V | 3.0 | 40.3 | 1.0 | -47.4 | -13.0 | -34.4 |  | 5.2500 | -10.9 | V | 3.0 | 40.9 | 1.0 | -50.8 | -13.0 | -37.8 |  | 7.0000 | -15.5 | V | 3.0 | 41.0 | 1.0 | -55.6 | -13.0 | -42.6 |  | 3.5000 | -12.4 | H | 3.0 | 40.3 | 1.0 | -51.7 | -13.0 | -38.7 |  | 5.2500 | -13.4 | H | 3.0 | 40.9 | 1.0 | -53.2 | -13.0 | -40.2 |  | 7.0000 | -13.1 | H | 3.0 | 41.0 | 1.0 | -53.1 | -13.0 | -40.1 |  |
| f GHz                                                              | SGreading (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ant. Pol. (H/V) | Distance (m)    | Preamp (dB)     | Filter (dB)  | ERP (dBm)   | Limit (dBm) | Delta (dB) | Notes       |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| Low Channel (1715MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.4300                                                             | -10.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.1450                                                             | -13.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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      |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 6.8600                                                             | -14.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.4300                                                             | -12.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.1450                                                             | -14.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 6.8600                                                             | -11.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Mid Channel (1732.5MHz)                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.4650                                                             | -9.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.1975                                                             | -12.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V               | 3.0             | 40.9            | 1.0          | -52.0       | -13.0       | -39.0      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |  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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 6.9300                                                             | -15.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V               | 3.0             | 41.0            | 1.0          | -55.8       | -13.0       | -42.8      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |  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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.4650                                                             | -13.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.1975                                                             | -13.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H               | 3.0             | 40.9            | 1.0          | -52.9       | -13.0       | -39.9      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |  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    |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 6.9300                                                             | -15.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H               | 3.0             | 41.0            | 1.0          | -55.6       | -13.0       | -42.6      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| High Channel (1750MHz)                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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      |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.5000                                                             | -8.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0             | 40.3            | 1.0          | -47.4       | -13.0       | -34.4      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.2500                                                             | -10.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V               | 3.0             | 40.9            | 1.0          | -50.8       | -13.0       | -37.8      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.0000                                                             | -15.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | V               | 3.0             | 41.0            | 1.0          | -55.6       | -13.0       | -42.6      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.5000                                                             | -12.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H               | 3.0             | 40.3            | 1.0          | -51.7       | -13.0       | -38.7      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.2500                                                             | -13.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H               | 3.0             | 40.9            | 1.0          | -53.2       | -13.0       | -40.2      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.0000                                                             | -13.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | H               | 3.0             | 41.0            | 1.0          | -53.1       | -13.0       | -40.1      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |

| <div>LTE</div> <div>Band 4</div> <div>5MHz</div> <div>QPSK</div>  | <div> <div>UL Korea, Ltd Suwon Laboratory</div> <div>Above 1GHz High Frequency Substitution Measurement</div> <div> <div>Company:</div> <div>Project #:</div> <div>Date:</div> <div>Test Engineer:</div> <div>Configuration:</div> <div>Mode:</div> </div> <div> <div>Samsung</div> <div>16K22866</div> <div>02-29-16</div> <div>Steven Kim</div> <div>EUT / AC Adapter / Ear Phone / Z-Position</div> <div>TX, LTE BAND 4, 5MHz BW, QPSK</div> </div> </div> <div> <div>Chamber</div> <div>Chamber 2</div> </div> <div> <div>Pre-amplifier</div> <div>AFS42</div> </div> <div> <div>Filter</div> <div>Filter 1</div> </div> <div> <div>Limit</div> <div>FCC Part 27</div> </div> <table> <tr> <th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (1712.5MHz)</td></tr> <tr><td>3.4250</td><td>-8.9</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-48.1</td><td>-13.0</td><td>-35.1</td><td></td></tr> <tr><td>5.1375</td><td>-11.6</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.5</td><td>-13.0</td><td>-38.5</td><td></td></tr> <tr><td>6.8500</td><td>-14.6</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.6</td><td>-13.0</td><td>-41.6</td><td></td></tr> <tr><td>3.4250</td><td>-11.8</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-51.1</td><td>-13.0</td><td>-38.1</td><td></td></tr> <tr><td>5.1375</td><td>-15.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-55.0</td><td>-13.0</td><td>-42.0</td><td></td></tr> <tr><td>6.8500</td><td>-10.4</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-50.4</td><td>-13.0</td><td>-37.4</td><td></td></tr> <tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr> <tr><td>3.4650</td><td>-7.2</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-46.5</td><td>-13.0</td><td>-33.5</td><td></td></tr> <tr><td>5.1975</td><td>-11.1</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.0</td><td>-13.0</td><td>-38.0</td><td></td></tr> <tr><td>6.9300</td><td>-16.3</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-56.3</td><td>-13.0</td><td>-43.3</td><td></td></tr> <tr><td>3.4650</td><td>-13.1</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-52.3</td><td>-13.0</td><td>-39.3</td><td></td></tr> <tr><td>5.1975</td><td>-15.0</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr> <tr><td>6.9300</td><td>-12.8</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr> <tr><td colspan="10">High Channel (1752.5MHz)</td></tr> <tr><td>3.5050</td><td>-7.0</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-46.3</td><td>-13.0</td><td>-33.3</td><td></td></tr> <tr><td>5.2575</td><td>-9.5</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.3</td><td>-13.0</td><td>-36.3</td><td></td></tr> <tr><td>7.0100</td><td>-15.3</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.3</td><td>-13.0</td><td>-42.3</td><td></td></tr> <tr><td>3.5050</td><td>-12.1</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-51.4</td><td>-13.0</td><td>-38.4</td><td></td></tr> <tr><td>5.2575</td><td>-13.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr> <tr><td>7.0100</td><td>-12.1</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.1</td><td>-13.0</td><td>-39.1</td><td></td></tr> </table> <div> <div>Rev. 03.03.09</div> <div>Note: No other emissions were detected above the system noise floor.</div> </div>    | f GHz           | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm)  | Limit (dBm) | Delta (dB) | Notes | Low Channel (1712.5MHz) |  |  |  |  |  |  |  |  |  | 3.4250 | -8.9  | V | 3.0 | 40.2 | 1.0 | -48.1 | -13.0 | -35.1 |  | 5.1375 | -11.6 | V | 3.0 | 40.9 | 1.0 | -51.5 | -13.0 | -38.5 |  | 6.8500 | -14.6 | V | 3.0 | 41.0 | 1.0 | -54.6 | -13.0 | -41.6 |  | 3.4250 | -11.8 | H | 3.0 | 40.2 | 1.0 | -51.1 | -13.0 | -38.1 |  | 5.1375 | -15.1 | H | 3.0 | 40.9 | 1.0 | -55.0 | -13.0 | -42.0 |  | 6.8500 | -10.4 | H | 3.0 | 41.0 | 1.0 | -50.4 | -13.0 | -37.4 |  | Mid Channel (1732.5MHz) |  |  |  |  |  |  |  |  |  | 3.4650 | -7.2 | V | 3.0 | 40.3 | 1.0 | -46.5 | -13.0 | -33.5 |  | 5.1975 | -11.1 | V | 3.0 | 40.9 | 1.0 | -51.0 | -13.0 | -38.0 |  | 6.9300 | -16.3 | V | 3.0 | 41.0 | 1.0 | -56.3 | -13.0 | -43.3 |  | 3.4650 | -13.1 | H | 3.0 | 40.3 | 1.0 | -52.3 | -13.0 | -39.3 |  | 5.1975 | -15.0 | H | 3.0 | 40.9 | 1.0 | -54.8 | -13.0 | -41.8 |  | 6.9300 | -12.8 | H | 3.0 | 41.0 | 1.0 | -52.8 | -13.0 | -39.8 |  | High Channel (1752.5MHz) |  |  |  |  |  |  |  |  |  | 3.5050 | -7.0 | V | 3.0 | 40.3 | 1.0 | -46.3 | -13.0 | -33.3 |  | 5.2575 | -9.5  | V | 3.0 | 40.9 | 1.0 | -49.3 | -13.0 | -36.3 |  | 7.0100 | -15.3 | V | 3.0 | 41.0 | 1.0 | -55.3 | -13.0 | -42.3 |  | 3.5050 | -12.1 | H | 3.0 | 40.3 | 1.0 | -51.4 | -13.0 | -38.4 |  | 5.2575 | -13.1 | H | 3.0 | 40.9 | 1.0 | -53.0 | -13.0 | -40.0 |  | 7.0100 | -12.1 | H | 3.0 | 41.0 | 1.0 | -52.1 | -13.0 | -39.1 |  |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|-------------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|-------------------------|--|--|--|--|--|--|--|--|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------------------------|--|--|--|--|--|--|--|--|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|
| f GHz                                                             | SG reading (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ant. Pol. (H/V) | Distance (m)     | Preamp (dB)     | Filter (dB)  | ERP (dBm)   | Limit (dBm) | Delta (dB) | Notes       |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| Low Channel (1712.5MHz)                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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  |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.4250                                                            | -8.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | V               | 3.0              | 40.2            | 1.0          | -48.1       | -13.0       | -35.1      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.1375                                                            | -11.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0              | 40.9            | 1.0          | -51.5       | -13.0       | -38.5      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 6.8500                                                            | -14.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0              | 41.0            | 1.0          | -54.6       | -13.0       | -41.6      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.4250                                                            | -11.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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 |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.1375                                                            | -15.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 40.9            | 1.0          | -55.0       | -13.0       | -42.0      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |   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 |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 6.8500                                                            | -10.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 41.0            | 1.0          | -50.4       | -13.0       | -37.4      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| Mid Channel (1732.5MHz)                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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 |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.4650                                                            | -7.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | V               | 3.0              | 40.3            | 1.0          | -46.5       | -13.0       | -33.5      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.1975                                                            | -11.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0              | 40.9            | 1.0          | -51.0       | -13.0       | -38.0      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |   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 |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 6.9300                                                            | -16.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0              | 41.0            | 1.0          | -56.3       | -13.0       | -43.3      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.4650                                                            | -13.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 40.3            | 1.0          | -52.3       | -13.0       | -39.3      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |      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| 5.1975                                                            | -15.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 40.9            | 1.0          | -54.8       | -13.0       | -41.8      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |      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| 6.9300                                                            | -12.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 41.0            | 1.0          | -52.8       | -13.0       | -39.8      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |   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| High Channel (1752.5MHz)                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 3.5050                                                            | -7.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | V               | 3.0              | 40.3            | 1.0          | -46.3       | -13.0       | -33.3      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.2575                                                            | -9.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | V               | 3.0              | 40.9            | 1.0          | -49.3       | -13.0       | -36.3      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.0100                                                            | -15.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0              | 41.0            | 1.0          | -55.3       | -13.0       | -42.3      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.5050                                                            | -12.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 40.3            | 1.0          | -51.4       | -13.0       | -38.4      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.2575                                                            | -13.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 40.9            | 1.0          | -53.0       | -13.0       | -40.0      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.0100                                                            | -12.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 41.0            | 1.0          | -52.1       | -13.0       | -39.1      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| <div>LTE</div> <div>Band 4</div> <div>5MHz</div> <div>16QAM</div> | <div> <div>UL Korea, Ltd Suwon Laboratory</div> <div>Above 1GHz High Frequency Substitution Measurement</div> <div> <div>Company:</div> <div>Project #:</div> <div>Date:</div> <div>Test Engineer:</div> <div>Configuration:</div> <div>Mode:</div> </div> <div> <div>Samsung</div> <div>16K22866</div> <div>02-29-16</div> <div>Steven Kim</div> <div>EUT / AC Adapter / Ear Phone / Z-Position</div> <div>TX, LTE BAND 7, 5MHz BW, 16QAM</div> </div> </div> <div> <div>Chamber</div> <div>Chamber 2</div> </div> <div> <div>Pre-amplifier</div> <div>AFS42</div> </div> <div> <div>Filter</div> <div>Filter 1</div> </div> <div> <div>Limit</div> <div>FCC Part 27</div> </div> <table> <tr> <th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (1712.5MHz)</td></tr> <tr><td>3.4250</td><td>-10.5</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-49.7</td><td>-13.0</td><td>-36.7</td><td></td></tr> <tr><td>5.1375</td><td>-13.7</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr> <tr><td>6.8500</td><td>-15.0</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.0</td><td>-13.0</td><td>-42.0</td><td></td></tr> <tr><td>3.4250</td><td>-13.7</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-52.9</td><td>-13.0</td><td>-39.9</td><td></td></tr> <tr><td>5.1375</td><td>-16.2</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-56.1</td><td>-13.0</td><td>-43.1</td><td></td></tr> <tr><td>6.8500</td><td>-11.7</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-51.7</td><td>-13.0</td><td>-38.7</td><td></td></tr> <tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr> <tr><td>3.4650</td><td>-8.8</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-48.0</td><td>-13.0</td><td>-35.0</td><td></td></tr> <tr><td>5.1975</td><td>-13.1</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr> <tr><td>6.9300</td><td>-16.2</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-56.2</td><td>-13.0</td><td>-43.2</td><td></td></tr> <tr><td>3.4650</td><td>-14.6</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-53.8</td><td>-13.0</td><td>-40.8</td><td></td></tr> <tr><td>5.1975</td><td>-16.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-56.0</td><td>-13.0</td><td>-43.0</td><td></td></tr> <tr><td>6.9300</td><td>-13.7</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr> <tr><td colspan="10">High Channel (1752.5MHz)</td></tr> <tr><td>3.5050</td><td>-9.1</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-48.4</td><td>-13.0</td><td>-35.4</td><td></td></tr> <tr><td>5.2575</td><td>-12.1</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-52.0</td><td>-13.0</td><td>-39.0</td><td></td></tr> <tr><td>7.0100</td><td>-15.7</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.7</td><td>-13.0</td><td>-42.7</td><td></td></tr> <tr><td>3.5050</td><td>-13.2</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr> <tr><td>5.2575</td><td>-14.8</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-54.6</td><td>-13.0</td><td>-41.6</td><td></td></tr> <tr><td>7.0100</td><td>-12.8</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr> </table> <div> <div>Rev. 03.03.09</div> <div>Note: No other emissions were detected above the system noise floor.</div> </div> | f GHz           | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm)  | Limit (dBm) | Delta (dB) | Notes | Low Channel (1712.5MHz) |  |  |  |  |  |  |  |  |  | 3.4250 | -10.5 | V | 3.0 | 40.2 | 1.0 | -49.7 | -13.0 | -36.7 |  | 5.1375 | -13.7 | V | 3.0 | 40.9 | 1.0 | -53.6 | -13.0 | -40.6 |  | 6.8500 | -15.0 | V | 3.0 | 41.0 | 1.0 | -55.0 | -13.0 | -42.0 |  | 3.4250 | -13.7 | H | 3.0 | 40.2 | 1.0 | -52.9 | -13.0 | -39.9 |  | 5.1375 | -16.2 | H | 3.0 | 40.9 | 1.0 | -56.1 | -13.0 | -43.1 |  | 6.8500 | -11.7 | H | 3.0 | 41.0 | 1.0 | -51.7 | -13.0 | -38.7 |  | Mid Channel (1732.5MHz) |  |  |  |  |  |  |  |  |  | 3.4650 | -8.8 | V | 3.0 | 40.3 | 1.0 | -48.0 | -13.0 | -35.0 |  | 5.1975 | -13.1 | V | 3.0 | 40.9 | 1.0 | -53.0 | -13.0 | -40.0 |  | 6.9300 | -16.2 | V | 3.0 | 41.0 | 1.0 | -56.2 | -13.0 | -43.2 |  | 3.4650 | -14.6 | H | 3.0 | 40.3 | 1.0 | -53.8 | -13.0 | -40.8 |  | 5.1975 | -16.1 | H | 3.0 | 40.9 | 1.0 | -56.0 | -13.0 | -43.0 |  | 6.9300 | -13.7 | H | 3.0 | 41.0 | 1.0 | -53.7 | -13.0 | -40.7 |  | High Channel (1752.5MHz) |  |  |  |  |  |  |  |  |  | 3.5050 | -9.1 | V | 3.0 | 40.3 | 1.0 | -48.4 | -13.0 | -35.4 |  | 5.2575 | -12.1 | V | 3.0 | 40.9 | 1.0 | -52.0 | -13.0 | -39.0 |  | 7.0100 | -15.7 | V | 3.0 | 41.0 | 1.0 | -55.7 | -13.0 | -42.7 |  | 3.5050 | -13.2 | H | 3.0 | 40.3 | 1.0 | -52.5 | -13.0 | -39.5 |  | 5.2575 | -14.8 | H | 3.0 | 40.9 | 1.0 | -54.6 | -13.0 | -41.6 |  | 7.0100 | -12.8 | H | 3.0 | 41.0 | 1.0 | -52.8 | -13.0 | -39.8 |  |
| f GHz                                                             | SG reading (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ant. Pol. (H/V) | Distance (m)     | Preamp (dB)     | Filter (dB)  | ERP (dBm)   | Limit (dBm) | Delta (dB) | Notes       |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| Low Channel (1712.5MHz)                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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  |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.4250                                                            | -10.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0              | 40.2            | 1.0          | -49.7       | -13.0       | -36.7      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.1375                                                            | -13.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0              | 40.9            | 1.0          | -53.6       | -13.0       | -40.6      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 6.8500                                                            | -15.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0              | 41.0            | 1.0          | -55.0       | -13.0       | -42.0      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.4250                                                            | -13.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 40.2            | 1.0          | -52.9       | -13.0       | -39.9      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.1375                                                            | -16.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 40.9            | 1.0          | -56.1       | -13.0       | -43.1      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 6.8500                                                            | -11.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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  |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| Mid Channel (1732.5MHz)                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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 |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.4650                                                            | -8.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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  |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.1975                                                            | -13.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0              | 40.9            | 1.0          | -53.0       | -13.0       | -40.0      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 6.9300                                                            | -16.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0              | 41.0            | 1.0          | -56.2       | -13.0       | -43.2      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.4650                                                            | -14.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 40.3            | 1.0          | -53.8       | -13.0       | -40.8      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.1975                                                            | -16.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 40.9            | 1.0          | -56.0       | -13.0       | -43.0      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 6.9300                                                            | -13.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 41.0            | 1.0          | -53.7       | -13.0       | -40.7      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |      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| High Channel (1752.5MHz)                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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 |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.5050                                                            | -9.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | V               | 3.0              | 40.3            | 1.0          | -48.4       | -13.0       | -35.4      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |   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 |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.2575                                                            | -12.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0              | 40.9            | 1.0          | -52.0       | -13.0       | -39.0      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.0100                                                            | -15.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0              | 41.0            | 1.0          | -55.7       | -13.0       | -42.7      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.5050                                                            | -13.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 40.3            | 1.0          | -52.5       | -13.0       | -39.5      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.2575                                                            | -14.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 40.9            | 1.0          | -54.6       | -13.0       | -41.6      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.0100                                                            | -12.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 41.0            | 1.0          | -52.8       | -13.0       | -39.8      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |

LTE

Band 4

3MHz

QPSK

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company: Samsung

Project #: 16K22866

Date: 03-02-16

Test Engineer: Steven Kim

Configuration: EUT / AC Adapter / Ear Phone / Z-Position

Mode: TX, LTE BAND 4, 3MHz BW,QPSK

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

FCC Part 27

| f GHz                    | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|--------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Channel (1711.5MHz)  |                  |                 |              |             |             |           |             |            |       |
| 3.4230                   | -8.9             | V               | 3.0          | 40.2        | 1.0         | -48.1     | -13.0       | -35.1      |       |
| 5.1345                   | -6.5             | V               | 3.0          | 40.9        | 1.0         | -46.4     | -13.0       | -33.4      |       |
| 6.8460                   | -15.4            | V               | 3.0          | 41.0        | 1.0         | -55.3     | -13.0       | -42.3      |       |
| 3.4230                   | -12.4            | H               | 3.0          | 40.2        | 1.0         | -51.6     | -13.0       | -38.6      |       |
| 5.1345                   | -7.7             | H               | 3.0          | 40.9        | 1.0         | -47.6     | -13.0       | -34.6      |       |
| 6.8460                   | -13.1            | H               | 3.0          | 41.0        | 1.0         | -53.1     | -13.0       | -40.1      |       |
| Mid Channel (1732.5MHz)  |                  |                 |              |             |             |           |             |            |       |
| 3.4650                   | -7.2             | V               | 3.0          | 40.3        | 1.0         | -46.5     | -13.0       | -33.5      |       |
| 5.1975                   | -7.4             | V               | 3.0          | 40.9        | 1.0         | -47.3     | -13.0       | -34.3      |       |
| 6.9300                   | -15.1            | V               | 3.0          | 41.0        | 1.0         | -55.1     | -13.0       | -42.1      |       |
| 3.4650                   | -11.1            | H               | 3.0          | 40.3        | 1.0         | -50.3     | -13.0       | -37.3      |       |
| 5.1975                   | -6.4             | H               | 3.0          | 40.9        | 1.0         | -46.3     | -13.0       | -33.3      |       |
| 6.9300                   | -13.0            | H               | 3.0          | 41.0        | 1.0         | -53.0     | -13.0       | -40.0      |       |
| High Channel (1753.5MHz) |                  |                 |              |             |             |           |             |            |       |
| 3.5070                   | -6.9             | V               | 3.0          | 40.3        | 1.0         | -46.2     | -13.0       | -33.2      |       |
| 5.2605                   | -8.7             | V               | 3.0          | 40.9        | 1.0         | -48.5     | -13.0       | -35.5      |       |
| 7.0140                   | -15.7            | V               | 3.0          | 41.0        | 1.0         | -55.7     | -13.0       | -42.7      |       |
| 3.5070                   | -8.3             | H               | 3.0          | 40.3        | 1.0         | -47.5     | -13.0       | -34.5      |       |
| 5.2605                   | -4.2             | H               | 3.0          | 40.9        | 1.0         | -44.1     | -13.0       | -31.1      |       |
| 7.0140                   | -13.7            | H               | 3.0          | 41.0        | 1.0         | -53.7     | -13.0       | -40.7      |       |

Rev. 03.03.09

Note: No other emissions were detected above the system noise floor.

LTE

Band 4

3MHz

16QAM

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company: Samsung

Project #: 16K22866

Date: 03-02-16

Test Engineer: Steven Kim

Configuration: EUT / AC Adapter / Ear Phone / Z-Position

Mode: TX, LTE BAND 4, 3MHz BW,16QAM

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

FCC Part 27

| f GHz                    | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|--------------------------|------------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Channel (1711.5MHz)  |                  |                 |              |             |             |           |             |            |       |
| 3.4230                   | -9.8             | V               | 3.0          | 40.2        | 1.0         | -49.0     | -13.0       | -36.0      |       |
| 5.1345                   | -8.3             | V               | 3.0          | 40.9        | 1.0         | -48.2     | -13.0       | -35.2      |       |
| 6.8460                   | -15.3            | V               | 3.0          | 41.0        | 1.0         | -55.3     | -13.0       | -42.3      |       |
| 3.4230                   | -13.4            | H               | 3.0          | 40.2        | 1.0         | -52.6     | -13.0       | -39.6      |       |
| 5.1345                   | -9.6             | H               | 3.0          | 40.9        | 1.0         | -49.5     | -13.0       | -36.5      |       |
| 6.8460                   | -13.5            | H               | 3.0          | 41.0        | 1.0         | -53.5     | -13.0       | -40.5      |       |
| Mid Channel (1732.5MHz)  |                  |                 |              |             |             |           |             |            |       |
| 3.4650                   | -8.7             | V               | 3.0          | 40.3        | 1.0         | -47.9     | -13.0       | -34.9      |       |
| 5.1975                   | -9.2             | V               | 3.0          | 40.9        | 1.0         | -49.1     | -13.0       | -36.1      |       |
| 6.9300                   | -15.3            | V               | 3.0          | 41.0        | 1.0         | -55.3     | -13.0       | -42.3      |       |
| 3.4650                   | -12.9            | H               | 3.0          | 40.3        | 1.0         | -52.2     | -13.0       | -39.2      |       |
| 5.1975                   | -9.9             | H               | 3.0          | 40.9        | 1.0         | -49.8     | -13.0       | -36.8      |       |
| 6.9300                   | -13.3            | H               | 3.0          | 41.0        | 1.0         | -53.3     | -13.0       | -40.3      |       |
| High Channel (1752.5MHz) |                  |                 |              |             |             |           |             |            |       |
| 3.5070                   | -5.9             | V               | 3.0          | 40.3        | 1.0         | -45.2     | -13.0       | -32.2      |       |
| 5.2605                   | -5.5             | V               | 3.0          | 40.9        | 1.0         | -45.4     | -13.0       | -32.4      |       |
| 7.0140                   | -15.8            | V               | 3.0          | 41.0        | 1.0         | -55.8     | -13.0       | -42.8      |       |
| 3.5070                   | -9.4             | H               | 3.0          | 40.3        | 1.0         | -48.7     | -13.0       | -35.7      |       |
| 5.2605                   | -7.3             | H               | 3.0          | 40.9        | 1.0         | -47.2     | -13.0       | -34.2      |       |
| 7.0140                   | -14.2            | H               | 3.0          | 41.0        | 1.0         | -54.2     | -13.0       | -41.2      |       |

Rev. 03.03.09

Note: No other emissions were detected above the system noise floor.

| <div>LTE</div> <div>Band 4</div> <div>1.4MHz</div> <div>QPSK</div>   | <div><div>UL Korea, Ltd Suwon Laboratory</div><div>Above 1GHz High Frequency Substitution Measurement</div><div><div>Company: Samsung</div><div>Project#: 16K22866</div><div>Date: 03-02-16</div><div>Test Engineer: Steven Kim</div><div>Configuration: EUT / AC Adapter / Ear Phone / Z-Position</div><div>Mode: TX LTE BAND 4, 1.4MHz BW, QPSK</div></div><div><div>Chamber</div><div>Chamber 2</div></div><div><div>Pre-amplifier</div><div>AFS42</div></div><div><div>Filter</div><div>Filter 1</div></div><div><div>Limit</div><div>FCC Part 27</div></div><table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1710.7MHz)</td></tr><tr><td>3.4214</td><td>-8.9</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-48.1</td><td>-13.0</td><td>-35.1</td><td></td></tr><tr><td>5.1321</td><td>-6.8</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-46.7</td><td>-13.0</td><td>-33.7</td><td></td></tr><tr><td>6.8428</td><td>-14.5</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.4</td><td>-13.0</td><td>-41.4</td><td></td></tr><tr><td>3.4214</td><td>-12.7</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-51.9</td><td>-13.0</td><td>-38.9</td><td></td></tr><tr><td>5.1321</td><td>-6.7</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-46.6</td><td>-13.0</td><td>-33.6</td><td></td></tr><tr><td>6.8428</td><td>-13.8</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.8</td><td>-13.0</td><td>-40.8</td><td></td></tr><tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</td><td>-8.7</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-48.0</td><td>-13.0</td><td>-35.0</td><td></td></tr><tr><td>5.1975</td><td>-7.1</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-46.9</td><td>-13.0</td><td>-33.9</td><td></td></tr><tr><td>6.9300</td><td>-15.5</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.5</td><td>-13.0</td><td>-42.5</td><td></td></tr><tr><td>3.4650</td><td>-11.4</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-50.7</td><td>-13.0</td><td>-37.7</td><td></td></tr><tr><td>5.1975</td><td>-7.0</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-46.8</td><td>-13.0</td><td>-33.8</td><td></td></tr><tr><td>6.9300</td><td>-12.8</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr><tr><td colspan="10">High Channel (1754.3MHz)</td></tr><tr><td>3.5086</td><td>-5.6</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-44.9</td><td>-13.0</td><td>-31.9</td><td></td></tr><tr><td>5.2629</td><td>-6.5</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-46.3</td><td>-13.0</td><td>-33.3</td><td></td></tr><tr><td>7.0172</td><td>-14.9</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.9</td><td>-13.0</td><td>-41.9</td><td></td></tr><tr><td>3.5086</td><td>-11.2</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-50.5</td><td>-13.0</td><td>-37.5</td><td></td></tr><tr><td>5.2629</td><td>-4.4</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-44.2</td><td>-13.0</td><td>-31.2</td><td></td></tr><tr><td>7.0172</td><td>-14.2</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.2</td><td>-13.0</td><td>-41.2</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09</td></tr><tr><td colspan="10">Note: No other emissions were detected above the system noise floor.</td></tr></table></div>   | f GHz           | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm)  | Limit (dBm) | Delta (dB) | Notes | Low Channel (1710.7MHz) |  |  |  |  |  |  |  |  |  | 3.4214 | -8.9  | V | 3.0 | 40.2 | 1.0 | -48.1 | -13.0 | -35.1 |  | 5.1321 | -6.8 | V | 3.0 | 40.9 | 1.0 | -46.7 | -13.0 | -33.7 |  | 6.8428 | -14.5 | V | 3.0 | 41.0 | 1.0 | -54.4 | -13.0 | -41.4 |  | 3.4214 | -12.7 | H | 3.0 | 40.2 | 1.0 | -51.9 | -13.0 | -38.9 |  | 5.1321 | -6.7 | H | 3.0 | 40.9 | 1.0 | -46.6 | -13.0 | -33.6 |  | 6.8428 | -13.8 | H | 3.0 | 41.0 | 1.0 | -53.8 | -13.0 | -40.8 |  | Mid Channel (1732.5MHz) |  |  |  |  |  |  |  |  |  | 3.4650 | -8.7 | V | 3.0 | 40.3 | 1.0 | -48.0 | -13.0 | -35.0 |  | 5.1975 | -7.1 | V | 3.0 | 40.9 | 1.0 | -46.9 | -13.0 | -33.9 |  | 6.9300 | -15.5 | V | 3.0 | 41.0 | 1.0 | -55.5 | -13.0 | -42.5 |  | 3.4650 | -11.4 | H | 3.0 | 40.3 | 1.0 | -50.7 | -13.0 | -37.7 |  | 5.1975 | -7.0 | H | 3.0 | 40.9 | 1.0 | -46.8 | -13.0 | -33.8 |  | 6.9300 | -12.8 | H | 3.0 | 41.0 | 1.0 | -52.8 | -13.0 | -39.8 |  | High Channel (1754.3MHz) |  |  |  |  |  |  |  |  |  | 3.5086 | -5.6 | V | 3.0 | 40.3 | 1.0 | -44.9 | -13.0 | -31.9 |  | 5.2629 | -6.5 | V | 3.0 | 40.9 | 1.0 | -46.3 | -13.0 | -33.3 |  | 7.0172 | -14.9 | V | 3.0 | 41.0 | 1.0 | -54.9 | -13.0 | -41.9 |  | 3.5086 | -11.2 | H | 3.0 | 40.3 | 1.0 | -50.5 | -13.0 | -37.5 |  | 5.2629 | -4.4 | H | 3.0 | 40.9 | 1.0 | -44.2 | -13.0 | -31.2 |  | 7.0172 | -14.2 | H | 3.0 | 41.0 | 1.0 | -54.2 | -13.0 | -41.2 |  | Rev. 03.03.09 |  |  |  |  |  |  |  |  |  | Note: No other emissions were detected above the system noise floor. |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|-------------------------|--|--|--|--|--|--|--|--|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|-------------------------|--|--|--|--|--|--|--|--|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------------------------|--|--|--|--|--|--|--|--|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|--------|------|---|-----|------|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|---------------|--|--|--|--|--|--|--|--|--|----------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| f GHz                                                                | SG reading (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ant. Pol. (H/V) | Distance (m)     | Preamp (dB)     | Filter (dB)  | ERP (dBm)   | Limit (dBm) | Delta (dB) | Notes       |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| Low Channel (1710.7MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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   |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |   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| 3.4214                                                               | -8.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 5.1321                                                               | -6.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 6.8428                                                               | -14.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 3.4214                                                               | -12.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 5.1321                                                               | -6.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 6.8428                                                               | -13.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Mid Channel (1732.5MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 3.4650                                                               | -8.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 5.1975                                                               | -7.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | V               | 3.0              | 40.9            | 1.0          | -46.9       | -13.0       | -33.9      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |    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| 6.9300                                                               | -15.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 3.4650                                                               | -11.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 5.1975                                                               | -7.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | H               | 3.0              | 40.9            | 1.0          | -46.8       | -13.0       | -33.8      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |    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| 6.9300                                                               | -12.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 41.0            | 1.0          | -52.8       | -13.0       | -39.8      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |    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| High Channel (1754.3MHz)                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 3.5086                                                               | -5.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | V               | 3.0              | 40.3            | 1.0          | -44.9       | -13.0       | -31.9      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |   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| 5.2629                                                               | -6.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | V               | 3.0              | 40.9            | 1.0          | -46.3       | -13.0       | -33.3      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |    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| 7.0172                                                               | -14.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 3.5086                                                               | -11.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 5.2629                                                               | -4.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | H               | 3.0              | 40.9            | 1.0          | -44.2       | -13.0       | -31.2      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |    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| 7.0172                                                               | -14.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 41.0            | 1.0          | -54.2       | -13.0       | -41.2      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |    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| Rev. 03.03.09                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Note: No other emissions were detected above the system noise floor. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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    |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| <div>LTE</div> <div>Band 4</div> <div>1.4MHz</div> <div>16QAM</div>  | <div><div>UL Korea, Ltd Suwon Laboratory</div><div>Above 1GHz High Frequency Substitution Measurement</div><div><div>Company: Samsung</div><div>Project#: 16K22866</div><div>Date: 03-02-16</div><div>Test Engineer: Steven Kim</div><div>Configuration: EUT / AC Adapter / Ear Phone / Z-Position</div><div>Mode: TX LTE BAND 4, 1.4MHz BW, 16QAM</div></div><div><div>Chamber</div><div>Chamber 2</div></div><div><div>Pre-amplifier</div><div>AFS42</div></div><div><div>Filter</div><div>Filter 1</div></div><div><div>Limit</div><div>FCC Part 27</div></div><table><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1710.7MHz)</td></tr><tr><td>3.4214</td><td>-10.6</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-49.9</td><td>-13.0</td><td>-36.9</td><td></td></tr><tr><td>5.1321</td><td>-9.4</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.3</td><td>-13.0</td><td>-36.3</td><td></td></tr><tr><td>6.8428</td><td>-14.9</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.9</td><td>-13.0</td><td>-41.9</td><td></td></tr><tr><td>3.4214</td><td>-13.5</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-52.7</td><td>-13.0</td><td>-39.7</td><td></td></tr><tr><td>5.1321</td><td>-8.9</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-48.8</td><td>-13.0</td><td>-35.8</td><td></td></tr><tr><td>6.8428</td><td>-14.3</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.3</td><td>-13.0</td><td>-41.3</td><td></td></tr><tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</td><td>-9.9</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-49.2</td><td>-13.0</td><td>-36.2</td><td></td></tr><tr><td>5.1975</td><td>-8.2</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-48.1</td><td>-13.0</td><td>-35.1</td><td></td></tr><tr><td>6.9300</td><td>-15.3</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.3</td><td>-13.0</td><td>-42.3</td><td></td></tr><tr><td>3.4650</td><td>-12.6</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-51.9</td><td>-13.0</td><td>-38.9</td><td></td></tr><tr><td>5.1975</td><td>-5.9</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-45.7</td><td>-13.0</td><td>-32.7</td><td></td></tr><tr><td>6.9300</td><td>-13.4</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.4</td><td>-13.0</td><td>-40.4</td><td></td></tr><tr><td colspan="10">High Channel (1754.3MHz)</td></tr><tr><td>3.5086</td><td>-7.1</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-46.4</td><td>-13.0</td><td>-33.4</td><td></td></tr><tr><td>5.2629</td><td>-8.3</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-48.2</td><td>-13.0</td><td>-35.2</td><td></td></tr><tr><td>7.0172</td><td>-15.3</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.3</td><td>-13.0</td><td>-42.3</td><td></td></tr><tr><td>3.5086</td><td>-12.5</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-51.8</td><td>-13.0</td><td>-38.8</td><td></td></tr><tr><td>5.2629</td><td>-6.6</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-46.4</td><td>-13.0</td><td>-33.4</td><td></td></tr><tr><td>7.0172</td><td>-14.8</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09</td></tr><tr><td colspan="10">Note: No other emissions were detected above the system noise floor.</td></tr></table></div> | f GHz           | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm)  | Limit (dBm) | Delta (dB) | Notes | Low Channel (1710.7MHz) |  |  |  |  |  |  |  |  |  | 3.4214 | -10.6 | V | 3.0 | 40.2 | 1.0 | -49.9 | -13.0 | -36.9 |  | 5.1321 | -9.4 | V | 3.0 | 40.9 | 1.0 | -49.3 | -13.0 | -36.3 |  | 6.8428 | -14.9 | V | 3.0 | 41.0 | 1.0 | -54.9 | -13.0 | -41.9 |  | 3.4214 | -13.5 | H | 3.0 | 40.2 | 1.0 | -52.7 | -13.0 | -39.7 |  | 5.1321 | -8.9 | H | 3.0 | 40.9 | 1.0 | -48.8 | -13.0 | -35.8 |  | 6.8428 | -14.3 | H | 3.0 | 41.0 | 1.0 | -54.3 | -13.0 | -41.3 |  | Mid Channel (1732.5MHz) |  |  |  |  |  |  |  |  |  | 3.4650 | -9.9 | V | 3.0 | 40.3 | 1.0 | -49.2 | -13.0 | -36.2 |  | 5.1975 | -8.2 | V | 3.0 | 40.9 | 1.0 | -48.1 | -13.0 | -35.1 |  | 6.9300 | -15.3 | V | 3.0 | 41.0 | 1.0 | -55.3 | -13.0 | -42.3 |  | 3.4650 | -12.6 | H | 3.0 | 40.3 | 1.0 | -51.9 | -13.0 | -38.9 |  | 5.1975 | -5.9 | H | 3.0 | 40.9 | 1.0 | -45.7 | -13.0 | -32.7 |  | 6.9300 | -13.4 | H | 3.0 | 41.0 | 1.0 | -53.4 | -13.0 | -40.4 |  | High Channel (1754.3MHz) |  |  |  |  |  |  |  |  |  | 3.5086 | -7.1 | V | 3.0 | 40.3 | 1.0 | -46.4 | -13.0 | -33.4 |  | 5.2629 | -8.3 | V | 3.0 | 40.9 | 1.0 | -48.2 | -13.0 | -35.2 |  | 7.0172 | -15.3 | V | 3.0 | 41.0 | 1.0 | -55.3 | -13.0 | -42.3 |  | 3.5086 | -12.5 | H | 3.0 | 40.3 | 1.0 | -51.8 | -13.0 | -38.8 |  | 5.2629 | -6.6 | H | 3.0 | 40.9 | 1.0 | -46.4 | -13.0 | -33.4 |  | 7.0172 | -14.8 | H | 3.0 | 41.0 | 1.0 | -54.8 | -13.0 | -41.8 |  | Rev. 03.03.09 |  |  |  |  |  |  |  |  |  | Note: No other emissions were detected above the system noise floor. |  |  |  |  |  |  |  |  |  |
| f GHz                                                                | SG reading (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ant. Pol. (H/V) | Distance (m)     | Preamp (dB)     | Filter (dB)  | ERP (dBm)   | Limit (dBm) | Delta (dB) | Notes       |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| Low Channel (1710.7MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 3.4214                                                               | -10.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0              | 40.2            | 1.0          | -49.9       | -13.0       | -36.9      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |    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    |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| 5.1321                                                               | -9.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | V               | 3.0              | 40.9            | 1.0          | -49.3       | -13.0       | -36.3      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |    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    |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| 6.8428                                                               | -14.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0              | 41.0            | 1.0          | -54.9       | -13.0       | -41.9      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |   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| 3.4214                                                               | -13.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 40.2            | 1.0          | -52.7       | -13.0       | -39.7      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |    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| 5.1321                                                               | -8.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | H               | 3.0              | 40.9            | 1.0          | -48.8       | -13.0       | -35.8      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |    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    |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| 6.8428                                                               | -14.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 41.0            | 1.0          | -54.3       | -13.0       | -41.3      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |    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| Mid Channel (1732.5MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 3.4650                                                               | -9.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 5.1975                                                               | -8.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | V               | 3.0              | 40.9            | 1.0          | -48.1       | -13.0       | -35.1      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |    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| 6.9300                                                               | -15.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| 3.4650                                                               | -12.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 40.3            | 1.0          | -51.9       | -13.0       | -38.9      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |    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| 5.1975                                                               | -5.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 6.9300                                                               | -13.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| High Channel (1754.3MHz)                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 3.5086                                                               | -7.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 5.2629                                                               | -8.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | V               | 3.0              | 40.9            | 1.0          | -48.2       | -13.0       | -35.2      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |    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| 7.0172                                                               | -15.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | V               | 3.0              | 41.0            | 1.0          | -55.3       | -13.0       | -42.3      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |    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| 3.5086                                                               | -12.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 40.3            | 1.0          | -51.8       | -13.0       | -38.8      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |    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| 5.2629                                                               | -6.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | H               | 3.0              | 40.9            | 1.0          | -46.4       | -13.0       | -33.4      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |               |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| 7.0172                                                               | -14.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H               | 3.0              | 41.0            | 1.0          | -54.8       | -13.0       | -41.8      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |   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| Rev. 03.03.09                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Note: No other emissions were detected above the system noise floor. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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## LTE Band 2

| <div>LTE</div> <div>Band 2</div> <div>20MHz</div> <div>QPSK</div>  | <div> <div>UL Korea, Ltd Suwon Laboratory</div> <div>Above 1GHz High Frequency Substitution Measurement</div> <div> <div>Company: Samsung</div> <div>Project #: 16K22866</div> <div>Date: 03-08-16</div> <div>Test Engineer: Steven.Kim</div> <div>Configuration: EUT / AC Adapter / Ear Phone / Z-Position</div> <div>Mode: TX, LTE BAND 2, 20MHz BW, QPSK</div> </div> <div> <div>Chamber</div> <div>Chamber 2</div> </div> <div> <div>Pre-amplifier</div> <div>AFS42</div> </div> <div> <div>Filter</div> <div>Filter 1</div> </div> <div> <div>Limit</div> <div>FCC Part 24</div> </div> <table> <tr> <th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (1860MHz)</td></tr> <tr><td>3.7200</td><td>-3.8</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-43.3</td><td>-13.0</td><td>-30.3</td><td></td></tr> <tr><td>5.5800</td><td>-4.9</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-44.7</td><td>-13.0</td><td>-31.7</td><td></td></tr> <tr><td>7.4400</td><td>-14.6</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.3</td><td>-13.0</td><td>-41.3</td><td></td></tr> <tr><td>3.7200</td><td>-9.9</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-49.4</td><td>-13.0</td><td>-36.4</td><td></td></tr> <tr><td>5.5800</td><td>-2.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-42.1</td><td>-13.0</td><td>-29.1</td><td></td></tr> <tr><td>7.4400</td><td>-13.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr> <tr><td colspan="10">Mid Channel (1880MHz)</td></tr> <tr><td>3.7600</td><td>-4.9</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-44.5</td><td>-13.0</td><td>-31.5</td><td></td></tr> <tr><td>5.6400</td><td>-3.2</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-43.0</td><td>-13.0</td><td>-30.0</td><td></td></tr> <tr><td>7.5200</td><td>-14.4</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.1</td><td>-13.0</td><td>-41.1</td><td></td></tr> <tr><td>3.7600</td><td>-8.5</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-48.1</td><td>-13.0</td><td>-35.1</td><td></td></tr> <tr><td>5.6400</td><td>-3.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-43.1</td><td>-13.0</td><td>-30.1</td><td></td></tr> <tr><td>7.5200</td><td>-12.3</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-52.0</td><td>-13.0</td><td>-39.0</td><td></td></tr> <tr><td colspan="10">High Channel (1900MHz)</td></tr> <tr><td>3.8000</td><td>-2.7</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-42.3</td><td>-13.0</td><td>-29.3</td><td></td></tr> <tr><td>5.7000</td><td>-3.9</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-43.7</td><td>-13.0</td><td>-30.7</td><td></td></tr> <tr><td>7.6000</td><td>-13.9</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr> <tr><td>3.8000</td><td>-6.5</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-46.1</td><td>-13.0</td><td>-33.1</td><td></td></tr> <tr><td>5.7000</td><td>3.5</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-36.3</td><td>-13.0</td><td>-23.3</td><td></td></tr> <tr><td>7.6000</td><td>-12.5</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-52.2</td><td>-13.0</td><td>-39.2</td><td></td></tr> </table> <div> <div>Rev. 03.03.09</div> <div>Note: No other emissions were detected above the system noise floor.</div> </div> </div>   | f GHz           | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm)  | Limit (dBm) | Delta (dB) | Notes | Low Channel (1860MHz) |  |  |  |  |  |  |  |  |  | 3.7200 | -3.8 | V | 3.0 | 40.5 | 1.0 | -43.3 | -13.0 | -30.3 |  | 5.5800 | -4.9 | V | 3.0 | 40.8 | 1.0 | -44.7 | -13.0 | -31.7 |  | 7.4400 | -14.6 | V | 3.0 | 40.8 | 1.0 | -54.3 | -13.0 | -41.3 |  | 3.7200 | -9.9  | H | 3.0 | 40.5 | 1.0 | -49.4 | -13.0 | -36.4 |  | 5.5800 | -2.3 | H | 3.0 | 40.8 | 1.0 | -42.1 | -13.0 | -29.1 |  | 7.4400 | -13.3 | H | 3.0 | 40.8 | 1.0 | -53.0 | -13.0 | -40.0 |  | Mid Channel (1880MHz) |  |  |  |  |  |  |  |  |  | 3.7600 | -4.9 | V | 3.0 | 40.5 | 1.0 | -44.5 | -13.0 | -31.5 |  | 5.6400 | -3.2 | V | 3.0 | 40.8 | 1.0 | -43.0 | -13.0 | -30.0 |  | 7.5200 | -14.4 | V | 3.0 | 40.7 | 1.0 | -54.1 | -13.0 | -41.1 |  | 3.7600 | -8.5 | H | 3.0 | 40.5 | 1.0 | -48.1 | -13.0 | -35.1 |  | 5.6400 | -3.3 | H | 3.0 | 40.8 | 1.0 | -43.1 | -13.0 | -30.1 |  | 7.5200 | -12.3 | H | 3.0 | 40.7 | 1.0 | -52.0 | -13.0 | -39.0 |  | High Channel (1900MHz) |  |  |  |  |  |  |  |  |  | 3.8000 | -2.7 | V | 3.0 | 40.6 | 1.0 | -42.3 | -13.0 | -29.3 |  | 5.7000 | -3.9 | V | 3.0 | 40.8 | 1.0 | -43.7 | -13.0 | -30.7 |  | 7.6000 | -13.9 | V | 3.0 | 40.7 | 1.0 | -53.6 | -13.0 | -40.6 |  | 3.8000 | -6.5 | H | 3.0 | 40.6 | 1.0 | -46.1 | -13.0 | -33.1 |  | 5.7000 | 3.5 | H | 3.0 | 40.8 | 1.0 | -36.3 | -13.0 | -23.3 |  | 7.6000 | -12.5 | H | 3.0 | 40.7 | 1.0 | -52.2 | -13.0 | -39.2 |  |
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-|-----|-------|-------|-------|--|--------|-------|---|-----|------|-----|-------|-------|-------|--|
| f GHz                                                              | SG reading (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ant. Pol. (H/V) | Distance (m)     | Preamp (dB)     | Filter (dB)  | ERP (dBm)   | Limit (dBm) | Delta (dB) | Notes       |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| Low Channel (1860MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.7200                                                             | -3.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0              | 40.5            | 1.0          | -43.3       | -13.0       | -30.3      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.5800                                                             | -4.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.4400                                                             | -14.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | V               | 3.0              | 40.8            | 1.0          | -54.3       | -13.0       | -41.3      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.7200                                                             | -9.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0              | 40.5            | 1.0          | -49.4       | -13.0       | -36.4      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.5800                                                             | -2.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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|        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.4400                                                             | -13.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Mid Channel (1880MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.7600                                                             | -4.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.6400                                                             | -3.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0              | 40.8            | 1.0          | -43.0       | -13.0       | -30.0      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.5200                                                             | -14.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | V               | 3.0              | 40.7            | 1.0          | -54.1       | -13.0       | -41.1      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.7600                                                             | -8.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0              | 40.5            | 1.0          | -48.1       | -13.0       | -35.1      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.6400                                                             | -3.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0              | 40.8            | 1.0          | -43.1       | -13.0       | -30.1      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.5200                                                             | -12.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | H               | 3.0              | 40.7            | 1.0          | -52.0       | -13.0       | -39.0      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| High Channel (1900MHz)                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.8000                                                             | -2.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0              | 40.6            | 1.0          | -42.3       | -13.0       | -29.3      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.7000                                                             | -3.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0              | 40.8            | 1.0          | -43.7       | -13.0       | -30.7      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.6000                                                             | -13.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | V               | 3.0              | 40.7            | 1.0          | -53.6       | -13.0       | -40.6      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.8000                                                             | -6.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0              | 40.6            | 1.0          | -46.1       | -13.0       | -33.1      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.7000                                                             | 3.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | H               | 3.0              | 40.8            | 1.0          | -36.3       | -13.0       | -23.3      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.6000                                                             | -12.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | H               | 3.0              | 40.7            | 1.0          | -52.2       | -13.0       | -39.2      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| <div>LTE</div> <div>Band 2</div> <div>20MHz</div> <div>16QAM</div> | <div> <div>UL Korea, Ltd Suwon Laboratory</div> <div>Above 1GHz High Frequency Substitution Measurement</div> <div> <div>Company: Samsung</div> <div>Project #: 16K22866</div> <div>Date: 03-08-16</div> <div>Test Engineer: Steven.Kim</div> <div>Configuration: EUT / AC Adapter / Ear Phone / Z-Position</div> <div>Mode: TX, LTE BAND 2, 20MHz BW, 16QAM</div> </div> <div> <div>Chamber</div> <div>Chamber 2</div> </div> <div> <div>Pre-amplifier</div> <div>AFS42</div> </div> <div> <div>Filter</div> <div>Filter 1</div> </div> <div> <div>Limit</div> <div>FCC Part 24</div> </div> <table> <tr> <th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (1860MHz)</td></tr> <tr><td>3.7200</td><td>-5.6</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.1</td><td>-13.0</td><td>-32.1</td><td></td></tr> <tr><td>5.5800</td><td>-7.2</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-47.0</td><td>-13.0</td><td>-34.0</td><td></td></tr> <tr><td>7.4400</td><td>-15.5</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-55.3</td><td>-13.0</td><td>-42.3</td><td></td></tr> <tr><td>3.7200</td><td>-11.6</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-51.1</td><td>-13.0</td><td>-38.1</td><td></td></tr> <tr><td>5.5800</td><td>-5.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-44.8</td><td>-13.0</td><td>-31.8</td><td></td></tr> <tr><td>7.4400</td><td>-14.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.0</td><td>-13.0</td><td>-41.0</td><td></td></tr> <tr><td colspan="10">Mid Channel (1880MHz)</td></tr> <tr><td>3.7600</td><td>-6.0</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.6</td><td>-13.0</td><td>-32.6</td><td></td></tr> <tr><td>5.6400</td><td>-4.5</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-44.3</td><td>-13.0</td><td>-31.3</td><td></td></tr> <tr><td>7.5200</td><td>-14.8</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.5</td><td>-13.0</td><td>-41.5</td><td></td></tr> <tr><td>3.7600</td><td>-9.6</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-49.1</td><td>-13.0</td><td>-36.1</td><td></td></tr> <tr><td>5.6400</td><td>-4.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-44.1</td><td>-13.0</td><td>-31.1</td><td></td></tr> <tr><td>7.5200</td><td>-12.2</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-51.9</td><td>-13.0</td><td>-38.9</td><td></td></tr> <tr><td colspan="10">High Channel (1900MHz)</td></tr> <tr><td>3.8000</td><td>-4.1</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-43.7</td><td>-13.0</td><td>-30.7</td><td></td></tr> <tr><td>5.7000</td><td>-1.7</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-41.5</td><td>-13.0</td><td>-28.5</td><td></td></tr> <tr><td>7.6000</td><td>-14.4</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.0</td><td>-13.0</td><td>-41.0</td><td></td></tr> <tr><td>3.8000</td><td>-5.0</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-44.5</td><td>-13.0</td><td>-31.5</td><td></td></tr> <tr><td>5.7000</td><td>1.4</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-38.4</td><td>-13.0</td><td>-25.4</td><td></td></tr> <tr><td>7.6000</td><td>-13.4</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr> </table> <div> <div>Rev. 03.03.09</div> <div>Note: No other emissions were detected above the system noise floor.</div> </div> </div> | f GHz           | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm)  | Limit (dBm) | Delta (dB) | Notes | Low Channel (1860MHz) |  |  |  |  |  |  |  |  |  | 3.7200 | -5.6 | V | 3.0 | 40.5 | 1.0 | -45.1 | -13.0 | -32.1 |  | 5.5800 | -7.2 | V | 3.0 | 40.8 | 1.0 | -47.0 | -13.0 | -34.0 |  | 7.4400 | -15.5 | V | 3.0 | 40.8 | 1.0 | -55.3 | -13.0 | -42.3 |  | 3.7200 | -11.6 | H | 3.0 | 40.5 | 1.0 | -51.1 | -13.0 | -38.1 |  | 5.5800 | -5.0 | H | 3.0 | 40.8 | 1.0 | -44.8 | -13.0 | -31.8 |  | 7.4400 | -14.3 | H | 3.0 | 40.8 | 1.0 | -54.0 | -13.0 | -41.0 |  | Mid Channel (1880MHz) |  |  |  |  |  |  |  |  |  | 3.7600 | -6.0 | V | 3.0 | 40.5 | 1.0 | -45.6 | -13.0 | -32.6 |  | 5.6400 | -4.5 | V | 3.0 | 40.8 | 1.0 | -44.3 | -13.0 | -31.3 |  | 7.5200 | -14.8 | V | 3.0 | 40.7 | 1.0 | -54.5 | -13.0 | -41.5 |  | 3.7600 | -9.6 | H | 3.0 | 40.5 | 1.0 | -49.1 | -13.0 | -36.1 |  | 5.6400 | -4.3 | H | 3.0 | 40.8 | 1.0 | -44.1 | -13.0 | -31.1 |  | 7.5200 | -12.2 | H | 3.0 | 40.7 | 1.0 | -51.9 | -13.0 | -38.9 |  | High Channel (1900MHz) |  |  |  |  |  |  |  |  |  | 3.8000 | -4.1 | V | 3.0 | 40.6 | 1.0 | -43.7 | -13.0 | -30.7 |  | 5.7000 | -1.7 | V | 3.0 | 40.8 | 1.0 | -41.5 | -13.0 | -28.5 |  | 7.6000 | -14.4 | V | 3.0 | 40.7 | 1.0 | -54.0 | -13.0 | -41.0 |  | 3.8000 | -5.0 | H | 3.0 | 40.6 | 1.0 | -44.5 | -13.0 | -31.5 |  | 5.7000 | 1.4 | H | 3.0 | 40.8 | 1.0 | -38.4 | -13.0 | -25.4 |  | 7.6000 | -13.4 | H | 3.0 | 40.7 | 1.0 | -53.0 | -13.0 | -40.0 |  |
| f GHz                                                              | SG reading (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ant. Pol. (H/V) | Distance (m)     | Preamp (dB)     | Filter (dB)  | ERP (dBm)   | Limit (dBm) | Delta (dB) | Notes       |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| Low Channel (1860MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.7200                                                             | -5.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0              | 40.5            | 1.0          | -45.1       | -13.0       | -32.1      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.5800                                                             | -7.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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|        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.4400                                                             | -15.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.7200                                                             | -11.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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|        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.5800                                                             | -5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0              | 40.8            | 1.0          | -44.8       | -13.0       | -31.8      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.4400                                                             | -14.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | H               | 3.0              | 40.8            | 1.0          | -54.0       | -13.0       | -41.0      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |  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| Mid Channel (1880MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.7600                                                             | -6.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0              | 40.5            | 1.0          | -45.6       | -13.0       | -32.6      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.6400                                                             | -4.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0              | 40.8            | 1.0          | -44.3       | -13.0       | -31.3      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.5200                                                             | -14.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | V               | 3.0              | 40.7            | 1.0          | -54.5       | -13.0       | -41.5      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.7600                                                             | -9.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0              | 40.5            | 1.0          | -49.1       | -13.0       | -36.1      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  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   |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.6400                                                             | -4.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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|        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.5200                                                             | -12.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | H               | 3.0              | 40.7            | 1.0          | -51.9       | -13.0       | -38.9      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| High Channel (1900MHz)                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.8000                                                             | -4.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0              | 40.6            | 1.0          | -43.7       | -13.0       | -30.7      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.7000                                                             | -1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | V               | 3.0              | 40.8            | 1.0          | -41.5       | -13.0       | -28.5      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.6000                                                             | -14.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | V               | 3.0              | 40.7            | 1.0          | -54.0       | -13.0       | -41.0      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.8000                                                             | -5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | H               | 3.0              | 40.6            | 1.0          | -44.5       | -13.0       | -31.5      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.7000                                                             | 1.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | H               | 3.0              | 40.8            | 1.0          | -38.4       | -13.0       | -25.4      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.6000                                                             | -13.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | H               | 3.0              | 40.7            | 1.0          | -53.0       | -13.0       | -40.0      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |

|                                 | <div>UL Korea, Ltd Suwon Laboratory<br/>Above 1GHz High Frequency Substitution Measurement</div> <div>Company: Samsung<br/>Project #: 16K22866<br/>Date: 03-08-16<br/>Test Engineer: Steven.Kim<br/>Configuration: EUT / AC Adapter / Ear Phone / Z-Position<br/>Mode: TX, LTE BAND 2, 15MHz BW, QPSK</div> <div><div>Chamber</div><div>Chamber 2</div><div>Pre-amplifier</div><div>AFS42</div><div>Filter</div><div>Filter 1</div><div>Limit</div><div>FCC Part 24</div></div> <table><thead><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr></thead><tbody><tr><td colspan="10">Low Channel (1857.5MHz)</td></tr><tr><td>3.7150</td><td>-4.1</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-43.6</td><td>-13.0</td><td>-30.6</td><td></td></tr><tr><td>5.5725</td><td>-7.8</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-47.6</td><td>-13.0</td><td>-34.6</td><td></td></tr><tr><td>7.4300</td><td>-15.7</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-55.4</td><td>-13.0</td><td>-42.4</td><td></td></tr><tr><td>3.7150</td><td>-10.3</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-49.8</td><td>-13.0</td><td>-36.8</td><td></td></tr><tr><td>5.5725</td><td>-4.4</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-44.3</td><td>-13.0</td><td>-31.3</td><td></td></tr><tr><td>7.4300</td><td>-12.9</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-52.7</td><td>-13.0</td><td>-39.7</td><td></td></tr><tr><td colspan="10">Mid Channel (1880MHz)</td></tr><tr><td>3.7600</td><td>-4.5</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-44.1</td><td>-13.0</td><td>-31.1</td><td></td></tr><tr><td>5.6400</td><td>-4.3</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-44.1</td><td>-13.0</td><td>-31.1</td><td></td></tr><tr><td>7.5200</td><td>-14.6</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.3</td><td>-13.0</td><td>-41.3</td><td></td></tr><tr><td>3.7600</td><td>-8.8</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-48.3</td><td>-13.0</td><td>-35.3</td><td></td></tr><tr><td>5.6400</td><td>-1.2</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-41.0</td><td>-13.0</td><td>-28.0</td><td></td></tr><tr><td>7.5200</td><td>-12.3</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-52.0</td><td>-13.0</td><td>-39.0</td><td></td></tr><tr><td colspan="10">High Channel (1902.5MHz)</td></tr><tr><td>3.8050</td><td>-7.8</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-47.4</td><td>-13.0</td><td>-34.4</td><td></td></tr><tr><td>5.7075</td><td>-0.6</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-40.4</td><td>-13.0</td><td>-27.4</td><td></td></tr><tr><td>7.6100</td><td>-15.1</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr><tr><td>3.8050</td><td>-4.4</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-44.0</td><td>-13.0</td><td>-31.0</td><td></td></tr><tr><td>5.7075</td><td>3.2</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-36.6</td><td>-13.0</td><td>-23.6</td><td></td></tr><tr><td>7.6100</td><td>-13.3</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr></tbody></table> <div>Rev. 03.03.09<br/>Note: No other emissions were detected above the system noise floor.</div>   | f GHz           | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm)  | Limit (dBm) | Delta (dB) | Notes | Low Channel (1857.5MHz) |  |  |  |  |  |  |  |  |  | 3.7150 | -4.1 | V | 3.0 | 40.5 | 1.0 | -43.6 | -13.0 | -30.6 |  | 5.5725 | -7.8 | V | 3.0 | 40.8 | 1.0 | -47.6 | -13.0 | -34.6 |  | 7.4300 | -15.7 | V | 3.0 | 40.8 | 1.0 | -55.4 | -13.0 | -42.4 |  | 3.7150 | -10.3 | H | 3.0 | 40.5 | 1.0 | -49.8 | -13.0 | -36.8 |  | 5.5725 | -4.4 | H | 3.0 | 40.8 | 1.0 | -44.3 | -13.0 | -31.3 |  | 7.4300 | -12.9 | H | 3.0 | 40.8 | 1.0 | -52.7 | -13.0 | -39.7 |  | Mid Channel (1880MHz) |  |  |  |  |  |  |  |  |  | 3.7600 | -4.5 | V | 3.0 | 40.5 | 1.0 | -44.1 | -13.0 | -31.1 |  | 5.6400 | -4.3 | V | 3.0 | 40.8 | 1.0 | -44.1 | -13.0 | -31.1 |  | 7.5200 | -14.6 | V | 3.0 | 40.7 | 1.0 | -54.3 | -13.0 | -41.3 |  | 3.7600 | -8.8  | H | 3.0 | 40.5 | 1.0 | -48.3 | -13.0 | -35.3 |  | 5.6400 | -1.2 | H | 3.0 | 40.8 | 1.0 | -41.0 | -13.0 | -28.0 |  | 7.5200 | -12.3 | H | 3.0 | 40.7 | 1.0 | -52.0 | -13.0 | -39.0 |  | High Channel (1902.5MHz) |  |  |  |  |  |  |  |  |  | 3.8050 | -7.8 | V | 3.0 | 40.6 | 1.0 | -47.4 | -13.0 | -34.4 |  | 5.7075 | -0.6 | V | 3.0 | 40.8 | 1.0 | -40.4 | -13.0 | -27.4 |  | 7.6100 | -15.1 | V | 3.0 | 40.7 | 1.0 | -54.8 | -13.0 | -41.8 |  | 3.8050 | -4.4 | H | 3.0 | 40.6 | 1.0 | -44.0 | -13.0 | -31.0 |  | 5.7075 | 3.2 | H | 3.0 | 40.8 | 1.0 | -36.6 | -13.0 | -23.6 |  | 7.6100 | -13.3 | H | 3.0 | 40.7 | 1.0 | -53.0 | -13.0 | -40.0 |  |
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| f GHz                           | SG reading (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ant. Pol. (H/V) | Distance (m)     | Preamp (dB)     | Filter (dB)  | ERP (dBm)   | Limit (dBm) | Delta (dB) | Notes       |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| Low Channel (1857.5MHz)         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                  |                 |              |             |             |            |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.7150                          | -4.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0              | 40.5            | 1.0          | -43.6       | -13.0       | -30.6      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.5725                          | -7.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0              | 40.8            | 1.0          | -47.6       | -13.0       | -34.6      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.4300                          | -15.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | V               | 3.0              | 40.8            | 1.0          | -55.4       | -13.0       | -42.4      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.7150                          | -10.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | H               | 3.0              | 40.5            | 1.0          | -49.8       | -13.0       | -36.8      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.5725                          | -4.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H               | 3.0              | 40.8            | 1.0          | -44.3       | -13.0       | -31.3      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.4300                          | -12.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | H               | 3.0              | 40.8            | 1.0          | -52.7       | -13.0       | -39.7      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| Mid Channel (1880MHz)           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                  |                 |              |             |             |            |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.7600                          | -4.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0              | 40.5            | 1.0          | -44.1       | -13.0       | -31.1      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.6400                          | -4.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0              | 40.8            | 1.0          | -44.1       | -13.0       | -31.1      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.5200                          | -14.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | V               | 3.0              | 40.7            | 1.0          | -54.3       | -13.0       | -41.3      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.7600                          | -8.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H               | 3.0              | 40.5            | 1.0          | -48.3       | -13.0       | -35.3      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.6400                          | -1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H               | 3.0              | 40.8            | 1.0          | -41.0       | -13.0       | -28.0      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.5200                          | -12.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | H               | 3.0              | 40.7            | 1.0          | -52.0       | -13.0       | -39.0      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| High Channel (1902.5MHz)        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                  |                 |              |             |             |            |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.8050                          | -7.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0              | 40.6            | 1.0          | -47.4       | -13.0       | -34.4      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.7075                          | -0.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0              | 40.8            | 1.0          | -40.4       | -13.0       | -27.4      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.6100                          | -15.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | V               | 3.0              | 40.7            | 1.0          | -54.8       | -13.0       | -41.8      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.8050                          | -4.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H               | 3.0              | 40.6            | 1.0          | -44.0       | -13.0       | -31.0      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.7075                          | 3.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | H               | 3.0              | 40.8            | 1.0          | -36.6       | -13.0       | -23.6      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.6100                          | -13.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | H               | 3.0              | 40.7            | 1.0          | -53.0       | -13.0       | -40.0      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| LTE<br>Band 2<br>15MHz<br>16QAM | <div>UL Korea, Ltd Suwon Laboratory<br/>Above 1GHz High Frequency Substitution Measurement</div> <div>Company: Samsung<br/>Project #: 16K22866<br/>Date: 03-08-16<br/>Test Engineer: Steven.Kim<br/>Configuration: EUT / AC Adapter / Ear Phone / Z-Position<br/>Mode: TX, LTE BAND 2, 15MHz BW, 16QAM</div> <div><div>Chamber</div><div>Chamber 2</div><div>Pre-amplifier</div><div>AFS42</div><div>Filter</div><div>Filter 1</div><div>Limit</div><div>FCC Part 24</div></div> <table><thead><tr><th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr></thead><tbody><tr><td colspan="10">Low Channel (1857.5MHz)</td></tr><tr><td>3.7150</td><td>-5.5</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.0</td><td>-13.0</td><td>-32.0</td><td></td></tr><tr><td>5.5725</td><td>-8.3</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-48.1</td><td>-13.0</td><td>-35.1</td><td></td></tr><tr><td>7.4300</td><td>-15.4</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-55.2</td><td>-13.0</td><td>-42.2</td><td></td></tr><tr><td>3.7150</td><td>-11.9</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-51.4</td><td>-13.0</td><td>-38.4</td><td></td></tr><tr><td>5.5725</td><td>-5.9</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-45.7</td><td>-13.0</td><td>-32.7</td><td></td></tr><tr><td>7.4300</td><td>-13.5</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.2</td><td>-13.0</td><td>-40.2</td><td></td></tr><tr><td colspan="10">Mid Channel (1880MHz)</td></tr><tr><td>3.7600</td><td>-6.6</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.2</td><td>-13.0</td><td>-33.2</td><td></td></tr><tr><td>5.6400</td><td>-6.4</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-46.2</td><td>-13.0</td><td>-33.2</td><td></td></tr><tr><td>7.5200</td><td>-15.1</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr><tr><td>3.7600</td><td>-10.2</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-49.7</td><td>-13.0</td><td>-36.7</td><td></td></tr><tr><td>5.6400</td><td>-4.7</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-44.5</td><td>-13.0</td><td>-31.5</td><td></td></tr><tr><td>7.5200</td><td>-13.4</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.1</td><td>-13.0</td><td>-40.1</td><td></td></tr><tr><td colspan="10">High Channel (1902.5MHz)</td></tr><tr><td>3.8050</td><td>-3.8</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-43.4</td><td>-13.0</td><td>-30.4</td><td></td></tr><tr><td>5.7075</td><td>-3.2</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-43.0</td><td>-13.0</td><td>-30.0</td><td></td></tr><tr><td>7.6100</td><td>-14.8</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.5</td><td>-13.0</td><td>-41.5</td><td></td></tr><tr><td>3.8050</td><td>-6.3</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-45.9</td><td>-13.0</td><td>-32.9</td><td></td></tr><tr><td>5.7075</td><td>1.5</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-38.3</td><td>-13.0</td><td>-25.3</td><td></td></tr><tr><td>7.6100</td><td>-14.2</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.9</td><td>-13.0</td><td>-40.9</td><td></td></tr></tbody></table> <div>Rev. 03.03.09<br/>Note: No other emissions were detected above the system noise floor.</div> | f GHz           | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm)  | Limit (dBm) | Delta (dB) | Notes | Low Channel (1857.5MHz) |  |  |  |  |  |  |  |  |  | 3.7150 | -5.5 | V | 3.0 | 40.5 | 1.0 | -45.0 | -13.0 | -32.0 |  | 5.5725 | -8.3 | V | 3.0 | 40.8 | 1.0 | -48.1 | -13.0 | -35.1 |  | 7.4300 | -15.4 | V | 3.0 | 40.8 | 1.0 | -55.2 | -13.0 | -42.2 |  | 3.7150 | -11.9 | H | 3.0 | 40.5 | 1.0 | -51.4 | -13.0 | -38.4 |  | 5.5725 | -5.9 | H | 3.0 | 40.8 | 1.0 | -45.7 | -13.0 | -32.7 |  | 7.4300 | -13.5 | H | 3.0 | 40.8 | 1.0 | -53.2 | -13.0 | -40.2 |  | Mid Channel (1880MHz) |  |  |  |  |  |  |  |  |  | 3.7600 | -6.6 | V | 3.0 | 40.5 | 1.0 | -46.2 | -13.0 | -33.2 |  | 5.6400 | -6.4 | V | 3.0 | 40.8 | 1.0 | -46.2 | -13.0 | -33.2 |  | 7.5200 | -15.1 | V | 3.0 | 40.7 | 1.0 | -54.8 | -13.0 | -41.8 |  | 3.7600 | -10.2 | H | 3.0 | 40.5 | 1.0 | -49.7 | -13.0 | -36.7 |  | 5.6400 | -4.7 | H | 3.0 | 40.8 | 1.0 | -44.5 | -13.0 | -31.5 |  | 7.5200 | -13.4 | H | 3.0 | 40.7 | 1.0 | -53.1 | -13.0 | -40.1 |  | High Channel (1902.5MHz) |  |  |  |  |  |  |  |  |  | 3.8050 | -3.8 | V | 3.0 | 40.6 | 1.0 | -43.4 | -13.0 | -30.4 |  | 5.7075 | -3.2 | V | 3.0 | 40.8 | 1.0 | -43.0 | -13.0 | -30.0 |  | 7.6100 | -14.8 | V | 3.0 | 40.7 | 1.0 | -54.5 | -13.0 | -41.5 |  | 3.8050 | -6.3 | H | 3.0 | 40.6 | 1.0 | -45.9 | -13.0 | -32.9 |  | 5.7075 | 1.5 | H | 3.0 | 40.8 | 1.0 | -38.3 | -13.0 | -25.3 |  | 7.6100 | -14.2 | H | 3.0 | 40.7 | 1.0 | -53.9 | -13.0 | -40.9 |  |
| f GHz                           | SG reading (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ant. Pol. (H/V) | Distance (m)     | Preamp (dB)     | Filter (dB)  | ERP (dBm)   | Limit (dBm) | Delta (dB) | Notes       |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| Low Channel (1857.5MHz)         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                  |                 |              |             |             |            |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.7150                          | -5.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0              | 40.5            | 1.0          | -45.0       | -13.0       | -32.0      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.5725                          | -8.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0              | 40.8            | 1.0          | -48.1       | -13.0       | -35.1      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.4300                          | -15.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | V               | 3.0              | 40.8            | 1.0          | -55.2       | -13.0       | -42.2      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.7150                          | -11.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | H               | 3.0              | 40.5            | 1.0          | -51.4       | -13.0       | -38.4      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.5725                          | -5.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H               | 3.0              | 40.8            | 1.0          | -45.7       | -13.0       | -32.7      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.4300                          | -13.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | H               | 3.0              | 40.8            | 1.0          | -53.2       | -13.0       | -40.2      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| Mid Channel (1880MHz)           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                  |                 |              |             |             |            |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.7600                          | -6.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0              | 40.5            | 1.0          | -46.2       | -13.0       | -33.2      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.6400                          | -6.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0              | 40.8            | 1.0          | -46.2       | -13.0       | -33.2      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.5200                          | -15.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | V               | 3.0              | 40.7            | 1.0          | -54.8       | -13.0       | -41.8      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.7600                          | -10.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | H               | 3.0              | 40.5            | 1.0          | -49.7       | -13.0       | -36.7      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.6400                          | -4.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H               | 3.0              | 40.8            | 1.0          | -44.5       | -13.0       | -31.5      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.5200                          | -13.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | H               | 3.0              | 40.7            | 1.0          | -53.1       | -13.0       | -40.1      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| High Channel (1902.5MHz)        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                  |                 |              |             |             |            |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.8050                          | -3.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0              | 40.6            | 1.0          | -43.4       | -13.0       | -30.4      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.7075                          | -3.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0              | 40.8            | 1.0          | -43.0       | -13.0       | -30.0      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.6100                          | -14.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | V               | 3.0              | 40.7            | 1.0          | -54.5       | -13.0       | -41.5      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.8050                          | -6.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H               | 3.0              | 40.6            | 1.0          | -45.9       | -13.0       | -32.9      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 5.7075                          | 1.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | H               | 3.0              | 40.8            | 1.0          | -38.3       | -13.0       | -25.3      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.6100                          | -14.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | H               | 3.0              | 40.7            | 1.0          | -53.9       | -13.0       | -40.9      |             |            |       |                         |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                          |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |

|                                                                    | <div>UL Korea, Ltd Suwon Laboratory</div> <div>Above 1GHz High Frequency Substitution Measurement</div> <div>Company: Samsung</div> <div>Project #: 16K22866</div> <div>Date: 03-08-16</div> <div>Test Engineer: Steven Kim</div> <div>Configuration: EUT / AC Adapter / Ear Phone / Z-Position</div> <div>Mode: TX, LTE BAND 2, 10MHz BW,QPSK</div> <div><div>Chamber</div><div>Chamber 2</div></div> <div><div>Pre-amplifier</div><div>AFS42</div></div> <div><div>Filter</div><div>Filter 1</div></div> <div><div>Limit</div><div>FCC Part 24</div></div> <table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1855MHz)</td></tr><tr><td>3.7100</td><td>-5.5</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.0</td><td>-13.0</td><td>-32.0</td><td></td></tr><tr><td>5.5650</td><td>-6.8</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-46.6</td><td>-13.0</td><td>-33.6</td><td></td></tr><tr><td>7.4200</td><td>-15.9</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-55.7</td><td>-13.0</td><td>-42.7</td><td></td></tr><tr><td>3.7100</td><td>-11.3</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-50.8</td><td>-13.0</td><td>-37.8</td><td></td></tr><tr><td>5.5650</td><td>-5.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-44.8</td><td>-13.0</td><td>-31.8</td><td></td></tr><tr><td>7.4200</td><td>-12.8</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-52.6</td><td>-13.0</td><td>-39.6</td><td></td></tr><tr><td colspan="10">Mid Channel (1880MHz)</td></tr><tr><td>3.7600</td><td>-4.1</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-43.6</td><td>-13.0</td><td>-30.6</td><td></td></tr><tr><td>5.6400</td><td>-3.5</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-43.3</td><td>-13.0</td><td>-30.3</td><td></td></tr><tr><td>7.5200</td><td>-14.6</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.3</td><td>-13.0</td><td>-41.3</td><td></td></tr><tr><td>3.7600</td><td>-7.6</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-47.1</td><td>-13.0</td><td>-34.1</td><td></td></tr><tr><td>5.6400</td><td>-3.4</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-43.2</td><td>-13.0</td><td>-30.2</td><td></td></tr><tr><td>7.5200</td><td>-12.7</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-52.4</td><td>-13.0</td><td>-39.4</td><td></td></tr><tr><td colspan="10">High Channel (1905MHz)</td></tr><tr><td>3.8100</td><td>-1.7</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-41.2</td><td>-13.0</td><td>-28.2</td><td></td></tr><tr><td>5.7150</td><td>2.4</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-37.4</td><td>-13.0</td><td>-24.4</td><td></td></tr><tr><td>7.6200</td><td>-15.3</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-55.0</td><td>-13.0</td><td>-42.0</td><td></td></tr><tr><td>3.8100</td><td>-4.9</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-44.5</td><td>-13.0</td><td>-31.5</td><td></td></tr><tr><td>5.7150</td><td>6.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-33.8</td><td>-13.0</td><td>-20.8</td><td></td></tr><tr><td>7.6200</td><td>-12.3</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-52.0</td><td>-13.0</td><td>-39.0</td><td></td></tr></table> <div>Rev. 03.03.09</div> <div>Note: No other emissions were detected above the system noise floor.</div>   | f GHz           | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm)  | Limit (dBm) | Delta (dB) | Notes | Low Channel (1855MHz) |  |  |  |  |  |  |  |  |  | 3.7100 | -5.5 | V | 3.0 | 40.5 | 1.0 | -45.0 | -13.0 | -32.0 |  | 5.5650 | -6.8 | V | 3.0 | 40.8 | 1.0 | -46.6 | -13.0 | -33.6 |  | 7.4200 | -15.9 | V | 3.0 | 40.8 | 1.0 | -55.7 | -13.0 | -42.7 |  | 3.7100 | -11.3 | H | 3.0 | 40.5 | 1.0 | -50.8 | -13.0 | -37.8 |  | 5.5650 | -5.0 | H | 3.0 | 40.8 | 1.0 | -44.8 | -13.0 | -31.8 |  | 7.4200 | -12.8 | H | 3.0 | 40.8 | 1.0 | -52.6 | -13.0 | -39.6 |  | Mid Channel (1880MHz) |  |  |  |  |  |  |  |  |  | 3.7600 | -4.1 | V | 3.0 | 40.5 | 1.0 | -43.6 | -13.0 | -30.6 |  | 5.6400 | -3.5 | V | 3.0 | 40.8 | 1.0 | -43.3 | -13.0 | -30.3 |  | 7.5200 | -14.6 | V | 3.0 | 40.7 | 1.0 | -54.3 | -13.0 | -41.3 |  | 3.7600 | -7.6 | H | 3.0 | 40.5 | 1.0 | -47.1 | -13.0 | -34.1 |  | 5.6400 | -3.4 | H | 3.0 | 40.8 | 1.0 | -43.2 | -13.0 | -30.2 |  | 7.5200 | -12.7 | H | 3.0 | 40.7 | 1.0 | -52.4 | -13.0 | -39.4 |  | High Channel (1905MHz) |  |  |  |  |  |  |  |  |  | 3.8100 | -1.7 | V | 3.0 | 40.6 | 1.0 | -41.2 | -13.0 | -28.2 |  | 5.7150 | 2.4  | V | 3.0 | 40.8 | 1.0 | -37.4 | -13.0 | -24.4 |  | 7.6200 | -15.3 | V | 3.0 | 40.7 | 1.0 | -55.0 | -13.0 | -42.0 |  | 3.8100 | -4.9 | H | 3.0 | 40.6 | 1.0 | -44.5 | -13.0 | -31.5 |  | 5.7150 | 6.0 | H | 3.0 | 40.8 | 1.0 | -33.8 | -13.0 | -20.8 |  | 7.6200 | -12.3 | H | 3.0 | 40.7 | 1.0 | -52.0 | -13.0 | -39.0 |  |
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| f GHz                                                              | SGreading (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ant. Pol. (H/V) | Distance (m)    | Preamp (dB)     | Filter (dB)  | ERP (dBm)   | Limit (dBm) | Delta (dB) | Notes       |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| Low Channel (1855MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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    |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 3.7100                                                             | -5.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0             | 40.5            | 1.0          | -45.0       | -13.0       | -32.0      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 5.5650                                                             | -6.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0             | 40.8            | 1.0          | -46.6       | -13.0       | -33.6      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 7.4200                                                             | -15.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | V               | 3.0             | 40.8            | 1.0          | -55.7       | -13.0       | -42.7      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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| 3.7100                                                             | -11.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | H               | 3.0             | 40.5            | 1.0          | -50.8       | -13.0       | -37.8      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 5.5650                                                             | -5.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H               | 3.0             | 40.8            | 1.0          | -44.8       | -13.0       | -31.8      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 7.4200                                                             | -12.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | H               | 3.0             | 40.8            | 1.0          | -52.6       | -13.0       | -39.6      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| Mid Channel (1880MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|       |       |  |
| 3.7600                                                             | -4.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0             | 40.5            | 1.0          | -43.6       | -13.0       | -30.6      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 5.6400                                                             | -3.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0             | 40.8            | 1.0          | -43.3       | -13.0       | -30.3      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 7.5200                                                             | -14.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | V               | 3.0             | 40.7            | 1.0          | -54.3       | -13.0       | -41.3      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 3.7600                                                             | -7.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H               | 3.0             | 40.5            | 1.0          | -47.1       | -13.0       | -34.1      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 5.6400                                                             | -3.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H               | 3.0             | 40.8            | 1.0          | -43.2       | -13.0       | -30.2      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 7.5200                                                             | -12.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| High Channel (1905MHz)                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|       |       |  |
| 3.8100                                                             | -1.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0             | 40.6            | 1.0          | -41.2       | -13.0       | -28.2      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 5.7150                                                             | 2.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | V               | 3.0             | 40.8            | 1.0          | -37.4       | -13.0       | -24.4      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 7.6200                                                             | -15.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | V               | 3.0             | 40.7            | 1.0          | -55.0       | -13.0       | -42.0      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 3.8100                                                             | -4.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H               | 3.0             | 40.6            | 1.0          | -44.5       | -13.0       | -31.5      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 5.7150                                                             | 6.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | H               | 3.0             | 40.8            | 1.0          | -33.8       | -13.0       | -20.8      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.6200                                                             | -12.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | H               | 3.0             | 40.7            | 1.0          | -52.0       | -13.0       | -39.0      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| <div>LTE</div> <div>Band 2</div> <div>10MHz</div> <div>16QAM</div> | <div>UL Korea, Ltd Suwon Laboratory</div> <div>Above 1GHz High Frequency Substitution Measurement</div> <div>Company: Samsung</div> <div>Project #: 16K22866</div> <div>Date: 03-08-16</div> <div>Test Engineer: Steven Kim</div> <div>Configuration: EUT / AC Adapter / Ear Phone / Z-Position</div> <div>Mode: TX, LTE BAND 2, 10MHz BW,16QAM</div> <div><div>Chamber</div><div>Chamber 2</div></div> <div><div>Pre-amplifier</div><div>AFS42</div></div> <div><div>Filter</div><div>Filter 1</div></div> <div><div>Limit</div><div>FCC Part 24</div></div> <table><tr><th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1855MHz)</td></tr><tr><td>3.7100</td><td>-7.4</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.9</td><td>-13.0</td><td>-33.9</td><td></td></tr><tr><td>5.5650</td><td>-7.6</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-47.4</td><td>-13.0</td><td>-34.4</td><td></td></tr><tr><td>7.4200</td><td>-16.4</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-56.2</td><td>-13.0</td><td>-43.2</td><td></td></tr><tr><td>3.7100</td><td>-12.4</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-51.9</td><td>-13.0</td><td>-38.9</td><td></td></tr><tr><td>5.5650</td><td>-6.7</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-46.5</td><td>-13.0</td><td>-33.5</td><td></td></tr><tr><td>7.4200</td><td>-14.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.1</td><td>-13.0</td><td>-41.1</td><td></td></tr><tr><td colspan="10">Mid Channel (1880MHz)</td></tr><tr><td>3.7600</td><td>-5.5</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.0</td><td>-13.0</td><td>-32.0</td><td></td></tr><tr><td>5.6400</td><td>-5.3</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-45.1</td><td>-13.0</td><td>-32.1</td><td></td></tr><tr><td>7.5200</td><td>-15.1</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr><tr><td>3.7600</td><td>-9.2</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-48.7</td><td>-13.0</td><td>-35.7</td><td></td></tr><tr><td>5.6400</td><td>-1.1</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-40.9</td><td>-13.0</td><td>-27.9</td><td></td></tr><tr><td>7.5200</td><td>-13.3</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr><tr><td colspan="10">High Channel (1905MHz)</td></tr><tr><td>3.8100</td><td>-4.7</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-44.3</td><td>-13.0</td><td>-31.3</td><td></td></tr><tr><td>5.7150</td><td>-1.5</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-41.3</td><td>-13.0</td><td>-28.3</td><td></td></tr><tr><td>7.6200</td><td>-15.5</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-55.1</td><td>-13.0</td><td>-42.1</td><td></td></tr><tr><td>3.8100</td><td>-6.4</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-46.0</td><td>-13.0</td><td>-33.0</td><td></td></tr><tr><td>5.7150</td><td>3.8</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-36.0</td><td>-13.0</td><td>-23.0</td><td></td></tr><tr><td>7.6200</td><td>-12.9</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr></table> <div>Rev. 03.03.09</div> <div>Note: No other emissions were detected above the system noise floor.</div> | f GHz           | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm)  | Limit (dBm) | Delta (dB) | Notes | Low Channel (1855MHz) |  |  |  |  |  |  |  |  |  | 3.7100 | -7.4 | V | 3.0 | 40.5 | 1.0 | -46.9 | -13.0 | -33.9 |  | 5.5650 | -7.6 | V | 3.0 | 40.8 | 1.0 | -47.4 | -13.0 | -34.4 |  | 7.4200 | -16.4 | V | 3.0 | 40.8 | 1.0 | -56.2 | -13.0 | -43.2 |  | 3.7100 | -12.4 | H | 3.0 | 40.5 | 1.0 | -51.9 | -13.0 | -38.9 |  | 5.5650 | -6.7 | H | 3.0 | 40.8 | 1.0 | -46.5 | -13.0 | -33.5 |  | 7.4200 | -14.3 | H | 3.0 | 40.8 | 1.0 | -54.1 | -13.0 | -41.1 |  | Mid Channel (1880MHz) |  |  |  |  |  |  |  |  |  | 3.7600 | -5.5 | V | 3.0 | 40.5 | 1.0 | -45.0 | -13.0 | -32.0 |  | 5.6400 | -5.3 | V | 3.0 | 40.8 | 1.0 | -45.1 | -13.0 | -32.1 |  | 7.5200 | -15.1 | V | 3.0 | 40.7 | 1.0 | -54.8 | -13.0 | -41.8 |  | 3.7600 | -9.2 | H | 3.0 | 40.5 | 1.0 | -48.7 | -13.0 | -35.7 |  | 5.6400 | -1.1 | H | 3.0 | 40.8 | 1.0 | -40.9 | -13.0 | -27.9 |  | 7.5200 | -13.3 | H | 3.0 | 40.7 | 1.0 | -53.0 | -13.0 | -40.0 |  | High Channel (1905MHz) |  |  |  |  |  |  |  |  |  | 3.8100 | -4.7 | V | 3.0 | 40.6 | 1.0 | -44.3 | -13.0 | -31.3 |  | 5.7150 | -1.5 | V | 3.0 | 40.8 | 1.0 | -41.3 | -13.0 | -28.3 |  | 7.6200 | -15.5 | V | 3.0 | 40.7 | 1.0 | -55.1 | -13.0 | -42.1 |  | 3.8100 | -6.4 | H | 3.0 | 40.6 | 1.0 | -46.0 | -13.0 | -33.0 |  | 5.7150 | 3.8 | H | 3.0 | 40.8 | 1.0 | -36.0 | -13.0 | -23.0 |  | 7.6200 | -12.9 | H | 3.0 | 40.7 | 1.0 | -52.5 | -13.0 | -39.5 |  |
| f GHz                                                              | SGreading (dBm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ant. Pol. (H/V) | Distance (m)    | Preamp (dB)     | Filter (dB)  | ERP (dBm)   | Limit (dBm) | Delta (dB) | Notes       |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| Low Channel (1855MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|       |       |  |
| 3.7100                                                             | -7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0             | 40.5            | 1.0          | -46.9       | -13.0       | -33.9      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 5.5650                                                             | -7.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0             | 40.8            | 1.0          | -47.4       | -13.0       | -34.4      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 7.4200                                                             | -16.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | V               | 3.0             | 40.8            | 1.0          | -56.2       | -13.0       | -43.2      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 3.7100                                                             | -12.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | H               | 3.0             | 40.5            | 1.0          | -51.9       | -13.0       | -38.9      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 5.5650                                                             | -6.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H               | 3.0             | 40.8            | 1.0          | -46.5       | -13.0       | -33.5      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 7.4200                                                             | -14.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | H               | 3.0             | 40.8            | 1.0          | -54.1       | -13.0       | -41.1      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| Mid Channel (1880MHz)                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|       |       |  |
| 3.7600                                                             | -5.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0             | 40.5            | 1.0          | -45.0       | -13.0       | -32.0      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 5.6400                                                             | -5.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0             | 40.8            | 1.0          | -45.1       | -13.0       | -32.1      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 7.5200                                                             | -15.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | V               | 3.0             | 40.7            | 1.0          | -54.8       | -13.0       | -41.8      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 3.7600                                                             | -9.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H               | 3.0             | 40.5            | 1.0          | -48.7       | -13.0       | -35.7      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 5.6400                                                             | -1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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|       |       |  |
| 7.5200                                                             | -13.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | H               | 3.0             | 40.7            | 1.0          | -53.0       | -13.0       | -40.0      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| High Channel (1905MHz)                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|       |       |  |
| 3.8100                                                             | -4.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0             | 40.6            | 1.0          | -44.3       | -13.0       | -31.3      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 5.7150                                                             | -1.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | V               | 3.0             | 40.8            | 1.0          | -41.3       | -13.0       | -28.3      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 7.6200                                                             | -15.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | V               | 3.0             | 40.7            | 1.0          | -55.1       | -13.0       | -42.1      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 3.8100                                                             | -6.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | H               | 3.0             | 40.6            | 1.0          | -46.0       | -13.0       | -33.0      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |  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|       |       |  |
| 5.7150                                                             | 3.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | H               | 3.0             | 40.8            | 1.0          | -36.0       | -13.0       | -23.0      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |
| 7.6200                                                             | -12.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | H               | 3.0             | 40.7            | 1.0          | -52.5       | -13.0       | -39.5      |             |            |       |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                       |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |                        |  |  |  |  |  |  |  |  |  |        |      |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |        |      |   |     |      |     |       |       |       |  |        |     |   |     |      |     |       |       |       |  |        |       |   |     |      |     |       |       |       |  |





LTE

Band 2

1.4MHz

QPSK

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

FCC Part 24

| f GHz                                                                                 | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|---------------------------------------------------------------------------------------|-----------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Channel (1850.7MHz)                                                               |                 |                 |              |             |             |           |             |            |       |
| 3.7014                                                                                | -7.2            | V               | 3.0          | 40.5        | 1.0         | -46.6     | -13.0       | -33.6      |       |
| 5.5521                                                                                | -3.9            | V               | 3.0          | 40.8        | 1.0         | -43.7     | -13.0       | -30.7      |       |
| 7.4028                                                                                | -15.4           | V               | 3.0          | 40.8        | 1.0         | -55.2     | -13.0       | -42.2      |       |
| 3.7014                                                                                | -11.2           | H               | 3.0          | 40.5        | 1.0         | -50.7     | -13.0       | -37.7      |       |
| 5.5521                                                                                | -3.8            | H               | 3.0          | 40.8        | 1.0         | -43.6     | -13.0       | -30.6      |       |
| 7.4028                                                                                | -14.5           | H               | 3.0          | 40.8        | 1.0         | -54.3     | -13.0       | -41.3      |       |
| Mid Channel (1880MHz)                                                                 |                 |                 |              |             |             |           |             |            |       |
| 3.7600                                                                                | -3.4            | V               | 3.0          | 40.5        | 1.0         | -43.0     | -13.0       | -30.0      |       |
| 5.6400                                                                                | -2.2            | V               | 3.0          | 40.8        | 1.0         | -42.0     | -13.0       | -29.0      |       |
| 7.5200                                                                                | -14.8           | V               | 3.0          | 40.7        | 1.0         | -54.6     | -13.0       | -41.6      |       |
| 3.7600                                                                                | -8.2            | H               | 3.0          | 40.5        | 1.0         | -47.8     | -13.0       | -34.8      |       |
| 5.6400                                                                                | -2.4            | H               | 3.0          | 40.8        | 1.0         | -42.2     | -13.0       | -29.2      |       |
| 7.5200                                                                                | -13.8           | H               | 3.0          | 40.7        | 1.0         | -53.6     | -13.0       | -40.6      |       |
| High Channel (1909.3MHz)                                                              |                 |                 |              |             |             |           |             |            |       |
| 3.8186                                                                                | 1.0             | V               | 3.0          | 40.6        | 1.0         | -38.6     | -13.0       | -25.6      |       |
| 5.7279                                                                                | 3.6             | V               | 3.0          | 40.8        | 1.0         | -36.2     | -13.0       | -23.2      |       |
| 7.6372                                                                                | -13.9           | V               | 3.0          | 40.7        | 1.0         | -53.5     | -13.0       | -40.5      |       |
| 3.8186                                                                                | -0.9            | H               | 3.0          | 40.6        | 1.0         | -40.5     | -13.0       | -27.5      |       |
| 5.7279                                                                                | 7.9             | H               | 3.0          | 40.8        | 1.0         | -31.9     | -13.0       | -18.9      |       |
| 7.6372                                                                                | -12.7           | H               | 3.0          | 40.7        | 1.0         | -52.4     | -13.0       | -39.4      |       |
| Rev. 03.03.09<br>Note: No other emissions were detected above the system noise floor. |                 |                 |              |             |             |           |             |            |       |

LTE

Band 2

1.4MHz

16QAM

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

FCC Part 24

| f GHz                                                                                 | SGreading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|---------------------------------------------------------------------------------------|-----------------|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Low Channel (1850.7MHz)                                                               |                 |                 |              |             |             |           |             |            |       |
| 3.7014                                                                                | -8.1            | V               | 3.0          | 40.5        | 1.0         | -47.6     | -13.0       | -34.6      |       |
| 5.5521                                                                                | -5.8            | V               | 3.0          | 40.8        | 1.0         | -45.7     | -13.0       | -32.7      |       |
| 7.4028                                                                                | -15.7           | V               | 3.0          | 40.8        | 1.0         | -55.5     | -13.0       | -42.5      |       |
| 3.7014                                                                                | -12.6           | H               | 3.0          | 40.5        | 1.0         | -52.1     | -13.0       | -39.1      |       |
| 5.5521                                                                                | -5.8            | H               | 3.0          | 40.8        | 1.0         | -45.7     | -13.0       | -32.7      |       |
| 7.4028                                                                                | -14.8           | H               | 3.0          | 40.8        | 1.0         | -54.6     | -13.0       | -41.6      |       |
| Mid Channel (1880MHz)                                                                 |                 |                 |              |             |             |           |             |            |       |
| 3.7600                                                                                | -4.5            | V               | 3.0          | 40.5        | 1.0         | -44.0     | -13.0       | -31.0      |       |
| 5.6400                                                                                | -3.4            | V               | 3.0          | 40.8        | 1.0         | -43.2     | -13.0       | -30.2      |       |
| 7.5200                                                                                | -15.1           | V               | 3.0          | 40.7        | 1.0         | -54.8     | -13.0       | -41.8      |       |
| 3.7600                                                                                | -9.6            | H               | 3.0          | 40.5        | 1.0         | -49.1     | -13.0       | -36.1      |       |
| 5.6400                                                                                | -3.8            | H               | 3.0          | 40.8        | 1.0         | -43.6     | -13.0       | -30.6      |       |
| 7.5200                                                                                | -14.1           | H               | 3.0          | 40.7        | 1.0         | -53.9     | -13.0       | -40.9      |       |
| High Channel (1909.3MHz)                                                              |                 |                 |              |             |             |           |             |            |       |
| 3.8186                                                                                | 0.0             | V               | 3.0          | 40.6        | 1.0         | -39.6     | -13.0       | -26.6      |       |
| 5.7279                                                                                | 0.4             | V               | 3.0          | 40.8        | 1.0         | -39.4     | -13.0       | -26.4      |       |
| 7.6372                                                                                | -14.9           | V               | 3.0          | 40.7        | 1.0         | -54.6     | -13.0       | -41.6      |       |
| 3.8186                                                                                | -2.1            | H               | 3.0          | 40.6        | 1.0         | -41.7     | -13.0       | -28.7      |       |
| 5.7279                                                                                | 5.8             | H               | 3.0          | 40.8        | 1.0         | -34.0     | -13.0       | -21.0      |       |
| 7.6372                                                                                | -13.6           | H               | 3.0          | 40.7        | 1.0         | -53.3     | -13.0       | -40.3      |       |
| Rev. 03.03.09<br>Note: No other emissions were detected above the system noise floor. |                 |                 |              |             |             |           |             |            |       |