

LTE Band 4 15MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 15K22211 Date: 11-25-15 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 4, 15MHz BW,QPSK Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27 <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>-2.4</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-41.6</td><td>-13.0</td><td>-28.6</td><td></td></tr> <tr><td>5.1525</td><td>-18.4</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-58.3</td><td>-13.0</td><td>-45.3</td><td></td></tr> <tr><td>6.8700</td><td>-15.2</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.2</td><td>-13.0</td><td>-42.2</td><td></td></tr> <tr><td>3.4350</td><td>-12.7</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-52.0</td><td>-13.0</td><td>-39.0</td><td></td></tr> <tr><td>5.1525</td><td>-17.4</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.3</td><td>-13.0</td><td>-44.3</td><td></td></tr> <tr><td>6.8700</td><td>-14.6</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.5</td><td>-13.0</td><td>-41.5</td><td></td></tr> <tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr> <tr><td>3.4650</td><td>0.9</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-38.4</td><td>-13.0</td><td>-25.4</td><td></td></tr> <tr><td>5.1975</td><td>-17.4</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.3</td><td>-13.0</td><td>-44.3</td><td></td></tr> <tr><td>6.9300</td><td>-15.9</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.9</td><td>-13.0</td><td>-42.9</td><td></td></tr> <tr><td>3.4650</td><td>-10.5</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-49.7</td><td>-13.0</td><td>-36.7</td><td></td></tr> <tr><td>5.1975</td><td>-17.8</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.6</td><td>-13.0</td><td>-44.6</td><td></td></tr> <tr><td>6.9300</td><td>-14.6</td><td>H</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 colspan="10">High Channel (1747.5MHz)</td></tr> <tr><td>3.4950</td><td>3.2</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-36.1</td><td>-13.0</td><td>-23.1</td><td></td></tr> <tr><td>5.2425</td><td>-16.4</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-56.3</td><td>-13.0</td><td>-43.3</td><td></td></tr> <tr><td>6.9900</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>3.4950</td><td>-8.8</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-48.1</td><td>-13.0</td><td>-35.1</td><td></td></tr> <tr><td>5.2425</td><td>-17.7</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.6</td><td>-13.0</td><td>-44.6</td><td></td></tr> <tr><td>6.9900</td><td>-12.3</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.3</td><td>-13.0</td><td>-39.3</td><td></td></tr> </table> 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	-2.4	V	3.0	40.2	1.0	-41.6	-13.0	-28.6		5.1525	-18.4	V	3.0	40.9	1.0	-58.3	-13.0	-45.3		6.8700	-15.2	V	3.0	41.0	1.0	-55.2	-13.0	-42.2		3.4350	-12.7	H	3.0	40.2	1.0	-52.0	-13.0	-39.0		5.1525	-17.4	H	3.0	40.9	1.0	-57.3	-13.0	-44.3		6.8700	-14.6	H	3.0	41.0	1.0	-54.5	-13.0	-41.5		Mid Channel (1732.5MHz)										3.4650	0.9	V	3.0	40.3	1.0	-38.4	-13.0	-25.4		5.1975	-17.4	V	3.0	40.9	1.0	-57.3	-13.0	-44.3		6.9300	-15.9	V	3.0	41.0	1.0	-55.9	-13.0	-42.9		3.4650	-10.5	H	3.0	40.3	1.0	-49.7	-13.0	-36.7		5.1975	-17.8	H	3.0	40.9	1.0	-57.6	-13.0	-44.6		6.9300	-14.6	H	3.0	41.0	1.0	-54.6	-13.0	-41.6		High Channel (1747.5MHz)										3.4950	3.2	V	3.0	40.3	1.0	-36.1	-13.0	-23.1		5.2425	-16.4	V	3.0	40.9	1.0	-56.3	-13.0	-43.3		6.9900	-15.3	V	3.0	41.0	1.0	-55.3	-13.0	-42.3		3.4950	-8.8	H	3.0	40.3	1.0	-48.1	-13.0	-35.1		5.2425	-17.7	H	3.0	40.9	1.0	-57.6	-13.0	-44.6		6.9900	-12.3	H	3.0	41.0	1.0	-52.3	-13.0	-39.3	
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LTE Band 4 10MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 15K22211 Date: 11-25-15 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 4, 10MHz BW, QPSK Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27 <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>-2.8</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-42.1</td><td>-13.0</td><td>-29.1</td><td></td></tr><tr><td>5.1450</td><td>-18.7</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-58.6</td><td>-13.0</td><td>-45.6</td><td></td></tr><tr><td>6.8600</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>3.4300</td><td>-13.2</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr><tr><td>5.1450</td><td>-17.9</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.8</td><td>-13.0</td><td>-44.8</td><td></td></tr><tr><td>6.8600</td><td>-14.9</td><td>H</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 colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</td><td>-0.4</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-39.6</td><td>-13.0</td><td>-26.6</td><td></td></tr><tr><td>5.1975</td><td>-17.8</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.7</td><td>-13.0</td><td>-44.7</td><td></td></tr><tr><td>6.9300</td><td>-15.9</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.9</td><td>-13.0</td><td>-42.9</td><td></td></tr><tr><td>3.4650</td><td>-11.0</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>-17.9</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.8</td><td>-13.0</td><td>-44.8</td><td></td></tr><tr><td>6.9300</td><td>-14.9</td><td>H</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 colspan="10">High Channel (1750MHz)</td></tr><tr><td>3.5000</td><td>2.3</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-37.0</td><td>-13.0</td><td>-24.0</td><td></td></tr><tr><td>5.2500</td><td>-16.9</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-56.8</td><td>-13.0</td><td>-43.8</td><td></td></tr><tr><td>7.0000</td><td>-15.4</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.4</td><td>-13.0</td><td>-42.4</td><td></td></tr><tr><td>3.5000</td><td>-8.7</td><td>H</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>5.2500</td><td>-18.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-58.0</td><td>-13.0</td><td>-45.0</td><td></td></tr><tr><td>7.0000</td><td>-11.6</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-51.6</td><td>-13.0</td><td>-38.6</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>	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	-2.8	V	3.0	40.2	1.0	-42.1	-13.0	-29.1		5.1450	-18.7	V	3.0	40.9	1.0	-58.6	-13.0	-45.6		6.8600	-15.1	V	3.0	41.0	1.0	-55.1	-13.0	-42.1		3.4300	-13.2	H	3.0	40.2	1.0	-52.5	-13.0	-39.5		5.1450	-17.9	H	3.0	40.9	1.0	-57.8	-13.0	-44.8		6.8600	-14.9	H	3.0	41.0	1.0	-54.9	-13.0	-41.9		Mid Channel (1732.5MHz)										3.4650	-0.4	V	3.0	40.3	1.0	-39.6	-13.0	-26.6		5.1975	-17.8	V	3.0	40.9	1.0	-57.7	-13.0	-44.7		6.9300	-15.9	V	3.0	41.0	1.0	-55.9	-13.0	-42.9		3.4650	-11.0	H	3.0	40.3	1.0	-50.2	-13.0	-37.2		5.1975	-17.9	H	3.0	40.9	1.0	-57.8	-13.0	-44.8		6.9300	-14.9	H	3.0	41.0	1.0	-54.9	-13.0	-41.9		High Channel (1750MHz)										3.5000	2.3	V	3.0	40.3	1.0	-37.0	-13.0	-24.0		5.2500	-16.9	V	3.0	40.9	1.0	-56.8	-13.0	-43.8		7.0000	-15.4	V	3.0	41.0	1.0	-55.4	-13.0	-42.4		3.5000	-8.7	H	3.0	40.3	1.0	-48.0	-13.0	-35.0		5.2500	-18.1	H	3.0	40.9	1.0	-58.0	-13.0	-45.0		7.0000	-11.6	H	3.0	41.0	1.0	-51.6	-13.0	-38.6		Rev. 03.03.09										Note: No other emissions were detected above the system noise floor.									
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LTE Band 4 10MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 15K22211 Date: 11-25-15 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 4, 10MHz BW, 16QAM Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27 <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>-3.8</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-43.0</td><td>-13.0</td><td>-30.0</td><td></td></tr><tr><td>5.1450</td><td>-19.6</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-59.5</td><td>-13.0</td><td>-46.5</td><td></td></tr><tr><td>6.8600</td><td>-16.1</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-56.1</td><td>-13.0</td><td>-43.1</td><td></td></tr><tr><td>3.4300</td><td>-14.2</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-53.4</td><td>-13.0</td><td>-40.4</td><td></td></tr><tr><td>5.1450</td><td>-18.9</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-58.8</td><td>-13.0</td><td>-45.8</td><td></td></tr><tr><td>6.8600</td><td>-16.0</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.9</td><td>-13.0</td><td>-42.9</td><td></td></tr><tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</td><td>-1.3</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-40.6</td><td>-13.0</td><td>-27.6</td><td></td></tr><tr><td>5.1975</td><td>-18.7</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-58.6</td><td>-13.0</td><td>-45.6</td><td></td></tr><tr><td>6.9300</td><td>-16.0</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-56.0</td><td>-13.0</td><td>-43.0</td><td></td></tr><tr><td>3.4650</td><td>-12.0</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-51.3</td><td>-13.0</td><td>-38.3</td><td></td></tr><tr><td>5.1975</td><td>-18.8</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-58.7</td><td>-13.0</td><td>-45.7</td><td></td></tr><tr><td>6.9300</td><td>-15.7</td><td>H</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 colspan="10">High Channel (1750MHz)</td></tr><tr><td>3.5000</td><td>1.1</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-38.2</td><td>-13.0</td><td>-25.2</td><td></td></tr><tr><td>5.2500</td><td>-17.2</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.1</td><td>-13.0</td><td>-44.1</td><td></td></tr><tr><td>7.0000</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>3.5000</td><td>-9.3</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-48.6</td><td>-13.0</td><td>-35.6</td><td></td></tr><tr><td>5.2500</td><td>-19.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-59.0</td><td>-13.0</td><td>-46.0</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><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 (1715MHz)										3.4300	-3.8	V	3.0	40.2	1.0	-43.0	-13.0	-30.0		5.1450	-19.6	V	3.0	40.9	1.0	-59.5	-13.0	-46.5		6.8600	-16.1	V	3.0	41.0	1.0	-56.1	-13.0	-43.1		3.4300	-14.2	H	3.0	40.2	1.0	-53.4	-13.0	-40.4		5.1450	-18.9	H	3.0	40.9	1.0	-58.8	-13.0	-45.8		6.8600	-16.0	H	3.0	41.0	1.0	-55.9	-13.0	-42.9		Mid Channel (1732.5MHz)										3.4650	-1.3	V	3.0	40.3	1.0	-40.6	-13.0	-27.6		5.1975	-18.7	V	3.0	40.9	1.0	-58.6	-13.0	-45.6		6.9300	-16.0	V	3.0	41.0	1.0	-56.0	-13.0	-43.0		3.4650	-12.0	H	3.0	40.3	1.0	-51.3	-13.0	-38.3		5.1975	-18.8	H	3.0	40.9	1.0	-58.7	-13.0	-45.7		6.9300	-15.7	H	3.0	41.0	1.0	-55.7	-13.0	-42.7		High Channel (1750MHz)										3.5000	1.1	V	3.0	40.3	1.0	-38.2	-13.0	-25.2		5.2500	-17.2	V	3.0	40.9	1.0	-57.1	-13.0	-44.1		7.0000	-15.6	V	3.0	41.0	1.0	-55.6	-13.0	-42.6		3.5000	-9.3	H	3.0	40.3	1.0	-48.6	-13.0	-35.6		5.2500	-19.1	H	3.0	40.9	1.0	-59.0	-13.0	-46.0		7.0000	-12.5	H	3.0	41.0	1.0	-52.5	-13.0	-39.5		Rev. 03.03.09										Note: No other emissions were detected above the system noise floor.									
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3.5000	-9.3	H	3.0	40.3	1.0	-48.6	-13.0	-35.6																																																																																																																																																																																																																																									
5.2500	-19.1	H	3.0	40.9	1.0	-59.0	-13.0	-46.0																																																																																																																																																																																																																																									
7.0000	-12.5	H	3.0	41.0	1.0	-52.5	-13.0	-39.5																																																																																																																																																																																																																																									
Rev. 03.03.09																																																																																																																																																																																																																																																	
Note: No other emissions were detected above the system noise floor.																																																																																																																																																																																																																																																	

LTE

Band 4

5MHz

QPSK

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

FCC Part 27

f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (1712.5MHz)									
3.4250	-2.5	V	3.0	40.2	1.0	-41.7	-13.0	-28.7	
5.1375	-18.8	V	3.0	40.9	1.0	-58.7	-13.0	-45.7	
6.5800	-16.5	V	3.0	40.9	1.0	-56.4	-13.0	-43.4	
3.4250	-13.2	H	3.0	40.2	1.0	-52.4	-13.0	-39.4	
5.1375	-17.7	H	3.0	40.9	1.0	-57.6	-13.0	-44.6	
6.5800	-15.1	H	3.0	40.9	1.0	-55.0	-13.0	-42.0	
Mid Channel (1732.5MHz)									
3.4650	0.0	V	3.0	40.3	1.0	-39.2	-13.0	-26.2	
5.1975	-17.7	V	3.0	40.9	1.0	-57.6	-13.0	-44.6	
6.9300	-16.3	V	3.0	41.0	1.0	-56.3	-13.0	-43.3	
3.4650	-10.7	H	3.0	40.3	1.0	-49.9	-13.0	-36.9	
5.1975	-17.3	H	3.0	40.9	1.0	-57.2	-13.0	-44.2	
6.9300	-14.4	H	3.0	41.0	1.0	-54.4	-13.0	-41.4	
High Channel (1752.5MHz)									
3.5050	2.0	V	3.0	40.3	1.0	-37.3	-13.0	-24.3	
5.2575	-16.4	V	3.0	40.9	1.0	-56.3	-13.0	-43.3	
7.0100	-15.1	V	3.0	41.0	1.0	-55.1	-13.0	-42.1	
3.5050	-8.2	H	3.0	40.3	1.0	-47.5	-13.0	-34.5	
5.2575	-17.7	H	3.0	40.9	1.0	-57.6	-13.0	-44.6	
7.0100	-11.8	H	3.0	41.0	1.0	-51.8	-13.0	-38.8	

Rev. 03.03.09

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

LTE

Band 4

5MHz

16QAM

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

FCC Part 27

f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (1712.5MHz)									
3.4250	-3.2	V	3.0	40.2	1.0	-42.4	-13.0	-29.4	
5.1375	-18.7	V	3.0	40.9	1.0	-58.6	-13.0	-45.6	
6.5800	-16.5	V	3.0	40.9	1.0	-56.4	-13.0	-43.4	
3.4250	-13.6	H	3.0	40.2	1.0	-52.8	-13.0	-39.8	
5.1375	-18.7	H	3.0	40.9	1.0	-58.6	-13.0	-45.6	
6.5800	-15.8	H	3.0	40.9	1.0	-55.7	-13.0	-42.7	
Mid Channel (1732.5MHz)									
3.4650	-1.5	V	3.0	40.3	1.0	-40.8	-13.0	-27.8	
5.1975	-18.3	V	3.0	40.9	1.0	-58.2	-13.0	-45.2	
6.9300	-17.2	V	3.0	41.0	1.0	-57.2	-13.0	-44.2	
3.4650	-11.3	H	3.0	40.3	1.0	-50.6	-13.0	-37.6	
5.1975	-18.2	H	3.0	40.9	1.0	-58.1	-13.0	-45.1	
6.9300	-14.8	H	3.0	41.0	1.0	-54.8	-13.0	-41.8	
High Channel (1752.5MHz)									
3.5050	1.0	V	3.0	40.3	1.0	-38.3	-13.0	-25.3	
5.2575	-17.3	V	3.0	40.9	1.0	-57.2	-13.0	-44.2	
7.0100	-16.0	V	3.0	41.0	1.0	-56.1	-13.0	-43.1	
3.5050	-9.4	H	3.0	40.3	1.0	-48.7	-13.0	-35.7	
5.2575	-18.3	H	3.0	40.9	1.0	-58.2	-13.0	-45.2	
7.0100	-13.1	H	3.0	41.0	1.0	-53.1	-13.0	-40.1	

Rev. 03.03.09

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

LTE Band 4 3MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 15K22211 Date: 11-25-15 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 <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 (1711.5MHz)</td></tr> <tr><td>3.4230</td><td>-2.1</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-41.3</td><td>-13.0</td><td>-28.3</td><td></td></tr> <tr><td>5.1345</td><td>-18.5</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-58.4</td><td>-13.0</td><td>-45.4</td><td></td></tr> <tr><td>6.8460</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>3.4230</td><td>-13.0</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-52.2</td><td>-13.0</td><td>-39.2</td><td></td></tr> <tr><td>5.1345</td><td>-17.4</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.3</td><td>-13.0</td><td>-44.3</td><td></td></tr> <tr><td>6.8460</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>0.5</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-38.8</td><td>-13.0</td><td>-25.8</td><td></td></tr> <tr><td>5.1975</td><td>-17.7</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.6</td><td>-13.0</td><td>-44.6</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>-10.7</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>5.1975</td><td>-17.4</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.3</td><td>-13.0</td><td>-44.3</td><td></td></tr> <tr><td>6.9300</td><td>-14.4</td><td>H</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 colspan="10">High Channel (1753.5MHz)</td></tr> <tr><td>3.5070</td><td>2.1</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-37.2</td><td>-13.0</td><td>-24.2</td><td></td></tr> <tr><td>5.2605</td><td>-16.1</td><td>V</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>7.0140</td><td>-15.2</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.2</td><td>-13.0</td><td>-42.2</td><td></td></tr> <tr><td>3.5070</td><td>-8.7</td><td>H</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>5.2605</td><td>-17.5</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.4</td><td>-13.0</td><td>-44.4</td><td></td></tr> <tr><td>7.0140</td><td>-11.6</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-51.6</td><td>-13.0</td><td>-38.6</td><td></td></tr> </table> 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 (1711.5MHz)										3.4230	-2.1	V	3.0	40.2	1.0	-41.3	-13.0	-28.3		5.1345	-18.5	V	3.0	40.9	1.0	-58.4	-13.0	-45.4		6.8460	-15.0	V	3.0	41.0	1.0	-55.0	-13.0	-42.0		3.4230	-13.0	H	3.0	40.2	1.0	-52.2	-13.0	-39.2		5.1345	-17.4	H	3.0	40.9	1.0	-57.3	-13.0	-44.3		6.8460	-14.3	H	3.0	41.0	1.0	-54.3	-13.0	-41.3		Mid Channel (1732.5MHz)										3.4650	0.5	V	3.0	40.3	1.0	-38.8	-13.0	-25.8		5.1975	-17.7	V	3.0	40.9	1.0	-57.6	-13.0	-44.6		6.9300	-15.8	V	3.0	41.0	1.0	-55.8	-13.0	-42.8		3.4650	-10.7	H	3.0	40.3	1.0	-49.9	-13.0	-36.9		5.1975	-17.4	H	3.0	40.9	1.0	-57.3	-13.0	-44.3		6.9300	-14.4	H	3.0	41.0	1.0	-54.4	-13.0	-41.4		High Channel (1753.5MHz)										3.5070	2.1	V	3.0	40.3	1.0	-37.2	-13.0	-24.2		5.2605	-16.1	V	3.0	40.9	1.0	-56.0	-13.0	-43.0		7.0140	-15.2	V	3.0	41.0	1.0	-55.2	-13.0	-42.2		3.5070	-8.7	H	3.0	40.3	1.0	-48.0	-13.0	-35.0		5.2605	-17.5	H	3.0	40.9	1.0	-57.4	-13.0	-44.4		7.0140	-11.6	H	3.0	41.0	1.0	-51.6	-13.0	-38.6	
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7.0140	-11.6	H	3.0	41.0	1.0	-51.6	-13.0	-38.6																																																																																																																																																																																																																					
LTE Band 4 3MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 15K22211 Date: 11-25-15 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 <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 (1711.5MHz)</td></tr> <tr><td>3.4230</td><td>-3.0</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-42.2</td><td>-13.0</td><td>-29.2</td><td></td></tr> <tr><td>5.1345</td><td>-19.5</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-59.4</td><td>-13.0</td><td>-46.4</td><td></td></tr> <tr><td>6.8460</td><td>-16.1</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-56.1</td><td>-13.0</td><td>-43.1</td><td></td></tr> <tr><td>3.4230</td><td>-13.6</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr> <tr><td>5.1345</td><td>-18.3</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-58.2</td><td>-13.0</td><td>-45.2</td><td></td></tr> <tr><td>6.8460</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">Mid Channel (1732.5MHz)</td></tr> <tr><td>3.4650</td><td>-0.5</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-39.8</td><td>-13.0</td><td>-26.8</td><td></td></tr> <tr><td>5.1975</td><td>-18.5</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-58.3</td><td>-13.0</td><td>-45.3</td><td></td></tr> <tr><td>6.9300</td><td>-15.9</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.9</td><td>-13.0</td><td>-42.9</td><td></td></tr> <tr><td>3.4650</td><td>-11.5</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-50.8</td><td>-13.0</td><td>-37.8</td><td></td></tr> <tr><td>5.1975</td><td>-18.2</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-58.1</td><td>-13.0</td><td>-45.1</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 (1752.5MHz)</td></tr> <tr><td>3.5070</td><td>1.1</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-38.2</td><td>-13.0</td><td>-25.2</td><td></td></tr> <tr><td>5.2605</td><td>-17.2</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.1</td><td>-13.0</td><td>-44.1</td><td></td></tr> <tr><td>7.0140</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>3.5070</td><td>-9.9</td><td>H</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>5.2605</td><td>-18.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-58.0</td><td>-13.0</td><td>-45.0</td><td></td></tr> <tr><td>7.0140</td><td>-13.2</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.2</td><td>-13.0</td><td>-40.2</td><td></td></tr> </table> 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 (1711.5MHz)										3.4230	-3.0	V	3.0	40.2	1.0	-42.2	-13.0	-29.2		5.1345	-19.5	V	3.0	40.9	1.0	-59.4	-13.0	-46.4		6.8460	-16.1	V	3.0	41.0	1.0	-56.1	-13.0	-43.1		3.4230	-13.6	H	3.0	40.2	1.0	-52.8	-13.0	-39.8		5.1345	-18.3	H	3.0	40.9	1.0	-58.2	-13.0	-45.2		6.8460	-15.3	H	3.0	41.0	1.0	-55.3	-13.0	-42.3		Mid Channel (1732.5MHz)										3.4650	-0.5	V	3.0	40.3	1.0	-39.8	-13.0	-26.8		5.1975	-18.5	V	3.0	40.9	1.0	-58.3	-13.0	-45.3		6.9300	-15.9	V	3.0	41.0	1.0	-55.9	-13.0	-42.9		3.4650	-11.5	H	3.0	40.3	1.0	-50.8	-13.0	-37.8		5.1975	-18.2	H	3.0	40.9	1.0	-58.1	-13.0	-45.1		6.9300	-14.7	H	3.0	41.0	1.0	-54.7	-13.0	-41.7		High Channel (1752.5MHz)										3.5070	1.1	V	3.0	40.3	1.0	-38.2	-13.0	-25.2		5.2605	-17.2	V	3.0	40.9	1.0	-57.1	-13.0	-44.1		7.0140	-15.8	V	3.0	41.0	1.0	-55.8	-13.0	-42.8		3.5070	-9.9	H	3.0	40.3	1.0	-49.2	-13.0	-36.2		5.2605	-18.1	H	3.0	40.9	1.0	-58.0	-13.0	-45.0		7.0140	-13.2	H	3.0	41.0	1.0	-53.2	-13.0	-40.2	
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LTE Band 4 1.4MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 15K22211 Date: 11-25-15 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 4, 1.4MHz BW, QPSK Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27 <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 (1710.7MHz)</td></tr> <tr><td>3.4214</td><td>0.4</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-38.8</td><td>-13.0</td><td>-25.8</td><td></td></tr> <tr><td>5.1321</td><td>-18.4</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-58.3</td><td>-13.0</td><td>-45.3</td><td></td></tr> <tr><td>6.8428</td><td>-15.2</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>3.4214</td><td>-13.1</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-52.3</td><td>-13.0</td><td>-39.3</td><td></td></tr> <tr><td>5.1321</td><td>-17.4</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.3</td><td>-13.0</td><td>-44.3</td><td></td></tr> <tr><td>6.8428</td><td>-14.5</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.5</td><td>-13.0</td><td>-41.5</td><td></td></tr> <tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr> <tr><td>3.4650</td><td>0.4</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-38.8</td><td>-13.0</td><td>-25.8</td><td></td></tr> <tr><td>5.1975</td><td>-17.2</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.1</td><td>-13.0</td><td>-44.1</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>-10.5</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-49.7</td><td>-13.0</td><td>-36.7</td><td></td></tr> <tr><td>5.1975</td><td>-17.4</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.3</td><td>-13.0</td><td>-44.3</td><td></td></tr> <tr><td>6.9300</td><td>-14.4</td><td>H</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 colspan="10">High Channel (1754.3MHz)</td></tr> <tr><td>3.5086</td><td>1.0</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-38.3</td><td>-13.0</td><td>-25.3</td><td></td></tr> <tr><td>5.2629</td><td>-17.4</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.3</td><td>-13.0</td><td>-44.3</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>-8.9</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-48.2</td><td>-13.0</td><td>-35.2</td><td></td></tr> <tr><td>5.2629</td><td>-17.3</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-57.2</td><td>-13.0</td><td>-44.2</td><td></td></tr> <tr><td>7.0172</td><td>-12.3</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.3</td><td>-13.0</td><td>-39.3</td><td></td></tr> </table> 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 (1710.7MHz)										3.4214	0.4	V	3.0	40.2	1.0	-38.8	-13.0	-25.8		5.1321	-18.4	V	3.0	40.9	1.0	-58.3	-13.0	-45.3		6.8428	-15.2	V	3.0	41.0	1.0	-55.1	-13.0	-42.1		3.4214	-13.1	H	3.0	40.2	1.0	-52.3	-13.0	-39.3		5.1321	-17.4	H	3.0	40.9	1.0	-57.3	-13.0	-44.3		6.8428	-14.5	H	3.0	41.0	1.0	-54.5	-13.0	-41.5		Mid Channel (1732.5MHz)										3.4650	0.4	V	3.0	40.3	1.0	-38.8	-13.0	-25.8		5.1975	-17.2	V	3.0	40.9	1.0	-57.1	-13.0	-44.1		6.9300	-16.3	V	3.0	41.0	1.0	-56.3	-13.0	-43.3		3.4650	-10.5	H	3.0	40.3	1.0	-49.7	-13.0	-36.7		5.1975	-17.4	H	3.0	40.9	1.0	-57.3	-13.0	-44.3		6.9300	-14.4	H	3.0	41.0	1.0	-54.4	-13.0	-41.4		High Channel (1754.3MHz)										3.5086	1.0	V	3.0	40.3	1.0	-38.3	-13.0	-25.3		5.2629	-17.4	V	3.0	40.9	1.0	-57.3	-13.0	-44.3		7.0172	-15.3	V	3.0	41.0	1.0	-55.3	-13.0	-42.3		3.5086	-8.9	H	3.0	40.3	1.0	-48.2	-13.0	-35.2		5.2629	-17.3	H	3.0	40.9	1.0	-57.2	-13.0	-44.2		7.0172	-12.3	H	3.0	41.0	1.0	-52.3	-13.0	-39.3	
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LTE Band 4 1.4MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 15K22211 Date: 11-25-15 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 4, 1.4MHz BW, 16QAM Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27 <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 (1710.7MHz)</td></tr> <tr><td>3.4214</td><td>-1.2</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-40.4</td><td>-13.0</td><td>-27.4</td><td></td></tr> <tr><td>5.1321</td><td>-19.8</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-59.7</td><td>-13.0</td><td>-46.7</td><td></td></tr> <tr><td>6.8428</td><td>-16.3</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>3.4214</td><td>-14.2</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-53.4</td><td>-13.0</td><td>-40.4</td><td></td></tr> <tr><td>5.1321</td><td>-18.3</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-58.2</td><td>-13.0</td><td>-45.2</td><td></td></tr> <tr><td>6.8428</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">Mid Channel (1732.5MHz)</td></tr> <tr><td>3.4650</td><td>-0.4</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-39.6</td><td>-13.0</td><td>-26.6</td><td></td></tr> <tr><td>5.1975</td><td>-18.3</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-58.2</td><td>-13.0</td><td>-45.2</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>-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>-18.5</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-58.4</td><td>-13.0</td><td>-45.4</td><td></td></tr> <tr><td>6.9300</td><td>-15.2</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.2</td><td>-13.0</td><td>-42.2</td><td></td></tr> <tr><td colspan="10">High Channel (1754.3MHz)</td></tr> <tr><td>3.5086</td><td>-0.7</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-40.0</td><td>-13.0</td><td>-27.0</td><td></td></tr> <tr><td>5.2629</td><td>-18.2</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-58.1</td><td>-13.0</td><td>-45.1</td><td></td></tr> <tr><td>7.0172</td><td>-16.1</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-56.1</td><td>-13.0</td><td>-43.1</td><td></td></tr> <tr><td>3.5086</td><td>-9.8</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-49.1</td><td>-13.0</td><td>-36.1</td><td></td></tr> <tr><td>5.2629</td><td>-18.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-58.0</td><td>-13.0</td><td>-45.0</td><td></td></tr> <tr><td>7.0172</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> 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 (1710.7MHz)										3.4214	-1.2	V	3.0	40.2	1.0	-40.4	-13.0	-27.4		5.1321	-19.8	V	3.0	40.9	1.0	-59.7	-13.0	-46.7		6.8428	-16.3	V	3.0	41.0	1.0	-56.2	-13.0	-43.2		3.4214	-14.2	H	3.0	40.2	1.0	-53.4	-13.0	-40.4		5.1321	-18.3	H	3.0	40.9	1.0	-58.2	-13.0	-45.2		6.8428	-15.3	H	3.0	41.0	1.0	-55.3	-13.0	-42.3		Mid Channel (1732.5MHz)										3.4650	-0.4	V	3.0	40.3	1.0	-39.6	-13.0	-26.6		5.1975	-18.3	V	3.0	40.9	1.0	-58.2	-13.0	-45.2		6.9300	-16.3	V	3.0	41.0	1.0	-56.3	-13.0	-43.3		3.4650	-11.8	H	3.0	40.3	1.0	-51.0	-13.0	-38.0		5.1975	-18.5	H	3.0	40.9	1.0	-58.4	-13.0	-45.4		6.9300	-15.2	H	3.0	41.0	1.0	-55.2	-13.0	-42.2		High Channel (1754.3MHz)										3.5086	-0.7	V	3.0	40.3	1.0	-40.0	-13.0	-27.0		5.2629	-18.2	V	3.0	40.9	1.0	-58.1	-13.0	-45.1		7.0172	-16.1	V	3.0	41.0	1.0	-56.1	-13.0	-43.1		3.5086	-9.8	H	3.0	40.3	1.0	-49.1	-13.0	-36.1		5.2629	-18.1	H	3.0	40.9	1.0	-58.0	-13.0	-45.0		7.0172	-12.8	H	3.0	41.0	1.0	-52.8	-13.0	-39.8	
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LTE Band 2 15MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 15K22211 Date: 11-25-15 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 2, 15MHz BW, 16QAM Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 24 <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 (1857.5MHz)</td></tr> <tr><td>3.7150</td><td>-2.6</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-42.1</td><td>-13.0</td><td>-29.1</td><td></td></tr> <tr><td>5.5725</td><td>-17.7</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-57.6</td><td>-13.0</td><td>-44.6</td><td></td></tr> <tr><td>7.4300</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>3.7150</td><td>-6.8</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.3</td><td>-13.0</td><td>-33.3</td><td></td></tr> <tr><td>5.5725</td><td>-17.5</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-57.3</td><td>-13.0</td><td>-44.3</td><td></td></tr> <tr><td>7.4300</td><td>-15.7</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-55.5</td><td>-13.0</td><td>-42.5</td><td></td></tr> <tr><td colspan="10">Mid Channel (1880MHz)</td></tr> <tr><td>3.7600</td><td>0.0</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-39.6</td><td>-13.0</td><td>-26.6</td><td></td></tr> <tr><td>5.6400</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>7.5200</td><td>-14.1</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.8</td><td>-13.0</td><td>-40.8</td><td></td></tr> <tr><td>3.7600</td><td>-4.7</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-44.2</td><td>-13.0</td><td>-31.2</td><td></td></tr> <tr><td>5.6400</td><td>-17.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-57.1</td><td>-13.0</td><td>-44.1</td><td></td></tr> <tr><td>7.5200</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> <tr><td colspan="10">High Channel (1902.5MHz)</td></tr> <tr><td>3.8050</td><td>-6.7</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-46.3</td><td>-13.0</td><td>-33.3</td><td></td></tr> <tr><td>5.7075</td><td>-16.3</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-56.0</td><td>-13.0</td><td>-43.0</td><td></td></tr> <tr><td>7.6100</td><td>-13.9</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.5</td><td>-13.0</td><td>-40.5</td><td></td></tr> <tr><td>3.8050</td><td>-7.2</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-46.7</td><td>-13.0</td><td>-33.7</td><td></td></tr> <tr><td>5.7075</td><td>-17.7</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-57.5</td><td>-13.0</td><td>-44.5</td><td></td></tr> <tr><td>7.6100</td><td>-14.8</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.4</td><td>-13.0</td><td>-41.4</td><td></td></tr> </table> 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 (1857.5MHz)										3.7150	-2.6	V	3.0	40.5	1.0	-42.1	-13.0	-29.1		5.5725	-17.7	V	3.0	40.8	1.0	-57.6	-13.0	-44.6		7.4300	-15.5	V	3.0	40.8	1.0	-55.3	-13.0	-42.3		3.7150	-6.8	H	3.0	40.5	1.0	-46.3	-13.0	-33.3		5.5725	-17.5	H	3.0	40.8	1.0	-57.3	-13.0	-44.3		7.4300	-15.7	H	3.0	40.8	1.0	-55.5	-13.0	-42.5		Mid Channel (1880MHz)										3.7600	0.0	V	3.0	40.5	1.0	-39.6	-13.0	-26.6		5.6400	-16.4	V	3.0	40.8	1.0	-56.2	-13.0	-43.2		7.5200	-14.1	V	3.0	40.7	1.0	-53.8	-13.0	-40.8		3.7600	-4.7	H	3.0	40.5	1.0	-44.2	-13.0	-31.2		5.6400	-17.3	H	3.0	40.8	1.0	-57.1	-13.0	-44.1		7.5200	-14.2	H	3.0	40.7	1.0	-53.9	-13.0	-40.9		High Channel (1902.5MHz)										3.8050	-6.7	V	3.0	40.6	1.0	-46.3	-13.0	-33.3		5.7075	-16.3	V	3.0	40.8	1.0	-56.0	-13.0	-43.0		7.6100	-13.9	V	3.0	40.7	1.0	-53.5	-13.0	-40.5		3.8050	-7.2	H	3.0	40.6	1.0	-46.7	-13.0	-33.7		5.7075	-17.7	H	3.0	40.8	1.0	-57.5	-13.0	-44.5		7.6100	-14.8	H	3.0	40.7	1.0	-54.4	-13.0	-41.4	
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LTE Band 2 5MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 15K22211 Date: 11-25-15 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 2, 5MHz BW, QPSK Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 24 <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 (1852.5MHz)</td></tr> <tr><td>3.7050</td><td>-1.8</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-41.3</td><td>-13.0</td><td>-28.3</td><td></td></tr> <tr><td>5.5575</td><td>-17.4</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-57.3</td><td>-13.0</td><td>-44.3</td><td></td></tr> <tr><td>7.4100</td><td>-15.1</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.9</td><td>-13.0</td><td>-41.9</td><td></td></tr> <tr><td>3.7050</td><td>-5.9</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.4</td><td>-13.0</td><td>-32.4</td><td></td></tr> <tr><td>5.5575</td><td>-17.6</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-57.4</td><td>-13.0</td><td>-44.4</td><td></td></tr> <tr><td>7.4100</td><td>-15.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr> <tr><td colspan="10">Mid Channel (1880MHz)</td></tr> <tr><td>3.7600</td><td>1.0</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-38.5</td><td>-13.0</td><td>-25.5</td><td></td></tr> <tr><td>5.6400</td><td>-16.5</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-56.3</td><td>-13.0</td><td>-43.3</td><td></td></tr> <tr><td>7.5200</td><td>-14.0</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr> <tr><td>3.7600</td><td>-3.4</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-43.0</td><td>-13.0</td><td>-30.0</td><td></td></tr> <tr><td>5.6400</td><td>-17.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-57.1</td><td>-13.0</td><td>-44.1</td><td></td></tr> <tr><td>7.5200</td><td>-14.0</td><td>H</td><td>3.0</td><td>40.7</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 (1907.5MHz)</td></tr> <tr><td>3.8150</td><td>-5.5</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-45.1</td><td>-13.0</td><td>-32.1</td><td></td></tr> <tr><td>5.7225</td><td>-15.3</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-55.1</td><td>-13.0</td><td>-42.1</td><td></td></tr> <tr><td>7.6300</td><td>-13.1</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr> <tr><td>3.8150</td><td>-6.6</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-46.2</td><td>-13.0</td><td>-33.2</td><td></td></tr> <tr><td>5.7225</td><td>-17.1</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-56.9</td><td>-13.0</td><td>-43.9</td><td></td></tr> <tr><td>7.6300</td><td>-14.8</td><td>H</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> </table> 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 (1852.5MHz)										3.7050	-1.8	V	3.0	40.5	1.0	-41.3	-13.0	-28.3		5.5575	-17.4	V	3.0	40.8	1.0	-57.3	-13.0	-44.3		7.4100	-15.1	V	3.0	40.8	1.0	-54.9	-13.0	-41.9		3.7050	-5.9	H	3.0	40.5	1.0	-45.4	-13.0	-32.4		5.5575	-17.6	H	3.0	40.8	1.0	-57.4	-13.0	-44.4		7.4100	-15.0	H	3.0	40.8	1.0	-54.8	-13.0	-41.8		Mid Channel (1880MHz)										3.7600	1.0	V	3.0	40.5	1.0	-38.5	-13.0	-25.5		5.6400	-16.5	V	3.0	40.8	1.0	-56.3	-13.0	-43.3		7.5200	-14.0	V	3.0	40.7	1.0	-53.7	-13.0	-40.7		3.7600	-3.4	H	3.0	40.5	1.0	-43.0	-13.0	-30.0		5.6400	-17.3	H	3.0	40.8	1.0	-57.1	-13.0	-44.1		7.5200	-14.0	H	3.0	40.7	1.0	-53.7	-13.0	-40.7		High Channel (1907.5MHz)										3.8150	-5.5	V	3.0	40.6	1.0	-45.1	-13.0	-32.1		5.7225	-15.3	V	3.0	40.8	1.0	-55.1	-13.0	-42.1		7.6300	-13.1	V	3.0	40.7	1.0	-52.8	-13.0	-39.8		3.8150	-6.6	H	3.0	40.6	1.0	-46.2	-13.0	-33.2		5.7225	-17.1	H	3.0	40.8	1.0	-56.9	-13.0	-43.9		7.6300	-14.8	H	3.0	40.7	1.0	-54.5	-13.0	-41.5	
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LTE Band 2 5MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 15K22211 Date: 11-25-15 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / X-Position Mode: TX, LTE BAND 2, 5MHz BW, 16QAM Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 24 <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 (1852.5MHz)</td></tr> <tr><td>3.7050</td><td>-2.8</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-42.3</td><td>-13.0</td><td>-29.3</td><td></td></tr> <tr><td>5.5575</td><td>-18.6</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-58.4</td><td>-13.0</td><td>-45.4</td><td></td></tr> <tr><td>7.4100</td><td>-15.1</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.9</td><td>-13.0</td><td>-41.9</td><td></td></tr> <tr><td>3.7050</td><td>-6.9</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.4</td><td>-13.0</td><td>-33.4</td><td></td></tr> <tr><td>5.5575</td><td>-18.5</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-58.3</td><td>-13.0</td><td>-45.3</td><td></td></tr> <tr><td>7.4100</td><td>-15.2</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.9</td><td>-13.0</td><td>-41.9</td><td></td></tr> <tr><td colspan="10">Mid Channel (1880MHz)</td></tr> <tr><td>3.7600</td><td>0.0</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-39.5</td><td>-13.0</td><td>-26.5</td><td></td></tr> <tr><td>5.6400</td><td>-17.4</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-57.2</td><td>-13.0</td><td>-44.2</td><td></td></tr> <tr><td>7.5200</td><td>-15.0</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.7</td><td>-13.0</td><td>-41.7</td><td></td></tr> <tr><td>3.7600</td><td>-4.3</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-43.9</td><td>-13.0</td><td>-30.9</td><td></td></tr> <tr><td>5.6400</td><td>-18.4</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-58.2</td><td>-13.0</td><td>-45.2</td><td></td></tr> <tr><td>7.5200</td><td>-14.8</td><td>H</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 colspan="10">High Channel (1907.5MHz)</td></tr> <tr><td>3.8150</td><td>-6.3</td><td>V</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>5.7225</td><td>-16.3</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-56.1</td><td>-13.0</td><td>-43.1</td><td></td></tr> <tr><td>7.6300</td><td>-14.0</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>3.8150</td><td>-7.9</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-47.5</td><td>-13.0</td><td>-34.5</td><td></td></tr> <tr><td>5.7225</td><td>-18.1</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-57.9</td><td>-13.0</td><td>-44.9</td><td></td></tr> <tr><td>7.6300</td><td>-14.8</td><td>H</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> </table> 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 (1852.5MHz)										3.7050	-2.8	V	3.0	40.5	1.0	-42.3	-13.0	-29.3		5.5575	-18.6	V	3.0	40.8	1.0	-58.4	-13.0	-45.4		7.4100	-15.1	V	3.0	40.8	1.0	-54.9	-13.0	-41.9		3.7050	-6.9	H	3.0	40.5	1.0	-46.4	-13.0	-33.4		5.5575	-18.5	H	3.0	40.8	1.0	-58.3	-13.0	-45.3		7.4100	-15.2	H	3.0	40.8	1.0	-54.9	-13.0	-41.9		Mid Channel (1880MHz)										3.7600	0.0	V	3.0	40.5	1.0	-39.5	-13.0	-26.5		5.6400	-17.4	V	3.0	40.8	1.0	-57.2	-13.0	-44.2		7.5200	-15.0	V	3.0	40.7	1.0	-54.7	-13.0	-41.7		3.7600	-4.3	H	3.0	40.5	1.0	-43.9	-13.0	-30.9		5.6400	-18.4	H	3.0	40.8	1.0	-58.2	-13.0	-45.2		7.5200	-14.8	H	3.0	40.7	1.0	-54.5	-13.0	-41.5		High Channel (1907.5MHz)										3.8150	-6.3	V	3.0	40.6	1.0	-45.9	-13.0	-32.9		5.7225	-16.3	V	3.0	40.8	1.0	-56.1	-13.0	-43.1		7.6300	-14.0	V	3.0	40.7	1.0	-53.6	-13.0	-40.6		3.8150	-7.9	H	3.0	40.6	1.0	-47.5	-13.0	-34.5		5.7225	-18.1	H	3.0	40.8	1.0	-57.9	-13.0	-44.9		7.6300	-14.8	H	3.0	40.7	1.0	-54.5	-13.0	-41.5	
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7.6300	-14.0	V	3.0	40.7	1.0	-53.6	-13.0	-40.6																																																																																																																																																																																																																					
3.8150	-7.9	H	3.0	40.6	1.0	-47.5	-13.0	-34.5																																																																																																																																																																																																																					
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LTE

Band 2

3MHz

QPSK

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company: Samsung

Project #: 15K22211

Date: 11-25-15

Test Engineer: Steven Kim

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

Mode: TX, LTE BAND 2, 3MHz BW,QPSK

Chamber

Pre-amplifier

Filter

Limit

Chamber 2

AFS42

Filter 1

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 (1851.5MHz)									
3.7030	-1.7	V	3.0	40.5	1.0	-41.2	-13.0	-28.2	
5.5545	-17.6	V	3.0	40.8	1.0	-57.4	-13.0	-44.4	
7.4060	-15.3	V	3.0	40.8	1.0	-55.1	-13.0	-42.1	
3.7030	-5.6	H	3.0	40.5	1.0	-45.1	-13.0	-32.1	
5.5545	-17.6	H	3.0	40.8	1.0	-57.4	-13.0	-44.4	
7.4060	-15.5	H	3.0	40.8	1.0	-55.3	-13.0	-42.3	
Mid Channel (1880MHz)									
3.7600	1.5	V	3.0	40.5	1.0	-38.1	-13.0	-25.1	
5.6400	-16.3	V	3.0	40.8	1.0	-56.1	-13.0	-43.1	
7.5200	-14.0	V	3.0	40.7	1.0	-53.8	-13.0	-40.8	
3.7600	-3.3	H	3.0	40.5	1.0	-42.8	-13.0	-29.8	
5.6400	-17.5	H	3.0	40.8	1.0	-57.3	-13.0	-44.3	
7.5200	-13.9	H	3.0	40.7	1.0	-53.6	-13.0	-40.6	
High Channel (1908.5MHz)									
3.8170	-5.4	V	3.0	40.6	1.0	-45.0	-13.0	-32.0	
5.7255	-15.1	V	3.0	40.8	1.0	-54.9	-13.0	-41.9	
7.6340	-12.8	V	3.0	40.7	1.0	-52.5	-13.0	-39.5	
3.8170	-6.1	H	3.0	40.6	1.0	-45.7	-13.0	-32.7	
5.7255	-17.4	H	3.0	40.8	1.0	-57.1	-13.0	-44.1	
7.6340	-14.7	H	3.0	40.7	1.0	-54.4	-13.0	-41.4	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

LTE

Band 2

3MHz

16QAM

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company: Samsung

Project #: 15K22211

Date: 11-25-15

Test Engineer: Steven Kim

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

Mode: TX, LTE BAND 2, 3MHz BW,16QAM

Chamber

Pre-amplifier

Filter

Limit

Chamber 2

AFS42

Filter 1

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 (1851.5MHz)									
3.703	-2.7	V	3.0	40.5	1.0	-42.2	-13.0	-29.2	
5.555	-18.5	V	3.0	40.8	1.0	-58.3	-13.0	-45.3	
7.406	-15.2	V	3.0	40.8	1.0	-55.0	-13.0	-42.0	
3.703	-6.5	H	3.0	40.5	1.0	-46.0	-13.0	-33.0	
5.555	-18.4	H	3.0	40.8	1.0	-58.2	-13.0	-45.2	
7.406	-15.5	H	3.0	40.8	1.0	-55.3	-13.0	-42.3	
Mid Channel (1880MHz)									
3.760	0.6	V	3.0	40.5	1.0	-39.0	-13.0	-26.0	
5.640	-17.4	V	3.0	40.8	1.0	-57.2	-13.0	-44.2	
7.520	-15.0	V	3.0	40.7	1.0	-54.7	-13.0	-41.7	
3.760	-4.4	H	3.0	40.5	1.0	-44.0	-13.0	-31.0	
5.640	-18.4	H	3.0	40.8	1.0	-58.2	-13.0	-45.2	
7.520	-14.8	H	3.0	40.7	1.0	-54.5	-13.0	-41.5	
High Channel (1908.5MHz)									
3.817	-6.2	V	3.0	40.6	1.0	-45.8	-13.0	-32.8	
5.726	-16.2	V	3.0	40.8	1.0	-56.0	-13.0	-43.0	
7.634	-13.8	V	3.0	40.7	1.0	-53.5	-13.0	-40.5	
3.817	-7.2	H	3.0	40.6	1.0	-46.8	-13.0	-33.8	
5.726	-18.1	H	3.0	40.8	1.0	-57.9	-13.0	-44.9	
7.634	-14.8	H	3.0	40.7	1.0	-54.5	-13.0	-41.5	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

LTE

Band 2

1.4MHz

QPSK

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

FCC Part 24

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (1850.7MHz)									
3.7014	-1.8	V	3.0	40.5	1.0	-41.2	-13.0	-28.2	
5.5071	-17.7	V	3.0	40.8	1.0	-57.5	-13.0	-44.5	
7.3578	-15.1	V	3.0	40.8	1.0	-55.0	-13.0	-42.0	
3.7014	-5.7	H	3.0	40.5	1.0	-45.2	-13.0	-32.2	
5.5071	-17.7	H	3.0	40.8	1.0	-57.5	-13.0	-44.5	
7.3578	-15.0	H	3.0	40.8	1.0	-54.9	-13.0	-41.9	
Mid Channel (1880MHz)									
3.7600	1.0	V	3.0	40.5	1.0	-38.5	-13.0	-25.5	
5.6400	-16.4	V	3.0	40.8	1.0	-56.2	-13.0	-43.2	
7.5200	-14.1	V	3.0	40.7	1.0	-53.8	-13.0	-40.8	
3.7600	-3.4	H	3.0	40.5	1.0	-43.0	-13.0	-30.0	
5.6400	-17.3	H	3.0	40.8	1.0	-57.1	-13.0	-44.1	
7.5200	-13.9	H	3.0	40.7	1.0	-53.6	-13.0	-40.6	
High Channel (1909.3MHz)									
3.8186	-5.3	V	3.0	40.6	1.0	-44.9	-13.0	-31.9	
5.7279	-15.3	V	3.0	40.8	1.0	-55.1	-13.0	-42.1	
7.6732	-12.8	V	3.0	40.6	1.0	-52.4	-13.0	-39.4	
3.8186	-6.1	H	3.0	40.6	1.0	-45.7	-13.0	-32.7	
5.7279	-17.2	H	3.0	40.8	1.0	-57.0	-13.0	-44.0	
7.6732	-14.6	H	3.0	40.6	1.0	-54.3	-13.0	-41.3	

Rev. 03.03.09

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	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (1850.7MHz)									
3.7014	-2.8	V	3.0	40.5	1.0	-42.2	-13.0	-29.2	
5.5071	-18.6	V	3.0	40.8	1.0	-58.4	-13.0	-45.4	
7.3578	-15.3	V	3.0	40.8	1.0	-55.1	-13.0	-42.1	
3.7014	-6.6	H	3.0	40.5	1.0	-46.1	-13.0	-33.1	
5.5071	-18.6	H	3.0	40.8	1.0	-58.4	-13.0	-45.4	
7.3578	-15.1	H	3.0	40.8	1.0	-54.9	-13.0	-41.9	
Mid Channel (1880MHz)									
3.7600	0.0	V	3.0	40.5	1.0	-39.6	-13.0	-26.6	
5.6400	-17.4	V	3.0	40.8	1.0	-57.2	-13.0	-44.2	
7.5200	-15.1	V	3.0	40.7	1.0	-54.8	-13.0	-41.8	
3.7600	-4.3	H	3.0	40.5	1.0	-43.8	-13.0	-30.8	
5.6400	-18.4	H	3.0	40.8	1.0	-58.2	-13.0	-45.2	
7.5200	-15.1	H	3.0	40.7	1.0	-54.8	-13.0	-41.8	
High Channel (1909.3MHz)									
3.8186	-6.1	V	3.0	40.6	1.0	-45.7	-13.0	-32.7	
5.7279	-16.1	V	3.0	40.8	1.0	-55.9	-13.0	-42.9	
7.6732	-13.8	V	3.0	40.6	1.0	-53.5	-13.0	-40.5	
3.8186	-7.2	H	3.0	40.6	1.0	-46.8	-13.0	-33.8	
5.7279	-18.2	H	3.0	40.8	1.0	-58.0	-13.0	-45.0	
7.6732	-14.7	H	3.0	40.6	1.0	-54.3	-13.0	-41.3	

Rev. 03.03.09

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