

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**  
**INTENTIONAL RADIATOR CERTIFICATION TO**  
**FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART**  
**B, C & SUBPART L and PART 90S REQUIREMENT**

OF

**Applicant:** HP Inc.  
3390 East Harmony Road Fort Collins, Colorado 80528 United States

**Product Name:** Notebook PC

**Brand Name:** HP

**Model No.:** TPN-Q198

**Model Difference:** N/A

**FCC ID:** B94TPQ198WCWT

**Report Number:** E2/2017/80072

**FCC Rule Part:** 2 , 22H & 24E & 27B, C & L & 90S

**Issue Date:** Dec. 01, 2017

**Date of Test:** Aug. 29, 2017 ~ Nov. 18, 2017

**Date of EUT Received:** Jul. 11, 2017

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

**Prepared By:**

*Allen Tsai*

**Allen Tsai / Engineer**

**Approved By:**

*Jim Chang*

**Jim Chang / Asst. Manager**



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## Revision History

| Report Number | Revision | Description                  | Issue Date    |
|---------------|----------|------------------------------|---------------|
| E2/2017/80072 | Rev.00   | Initial creation of document | Dec. 01, 2017 |
|               |          |                              |               |
|               |          |                              |               |
|               |          |                              |               |

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## 1. GENERAL PRODUCT INFORMATION

### 1.1. Product Description

General:

|                   |                                                                                                     |                                                                                                                                                       |
|-------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:     | Notebook PC                                                                                         |                                                                                                                                                       |
| Brand Name:       | HP                                                                                                  |                                                                                                                                                       |
| Model No.:        | TPN-Q198                                                                                            |                                                                                                                                                       |
| Model Difference: | N/A                                                                                                 |                                                                                                                                                       |
| Hardware Version: | N/A                                                                                                 |                                                                                                                                                       |
| Software Version: | N/A                                                                                                 |                                                                                                                                                       |
| WLAN & BT Module: | Brand: Qualcomm, Model No: WCN3990                                                                  |                                                                                                                                                       |
| LTE & GPS Module: | Brand: Qualcomm, Model No: WTR5975                                                                  |                                                                                                                                                       |
| Power Supply:     | 11.55Vdc from Rechargeable Li-polymer Battery<br>or 5 / 9 / 10 / 12 / 15 / 20Vdc from AC/DC Adapter |                                                                                                                                                       |
|                   | Battery:                                                                                            | Model No.: HSTNN-LB8D,<br>Supplier: Chongqing C-Tech Technology Co., Ltd.                                                                             |
|                   | Adapter:                                                                                            | 1. Model No.: TPN-DA07,<br>Supplier: DELTA ELECTRONICS (JIANGSU) LTD.<br>2. Model No.: TPN-LA06,<br>Supplier: LITE-ON TECHNOLOGY (CHANGZHOU)CO., LTD. |
| IMEI:             | 357947080020895                                                                                     |                                                                                                                                                       |

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# WCDMA / LTE: Cellular Phone Standards Frequency Range

| Operating Frequency (MHz) |        |          |
|---------------------------|--------|----------|
| WCDMA / HSPA+ Band II     | 1852.4 | - 1907.6 |
| WCDMA/HSPA+ Band IV       | 1712.4 | - 1752.6 |
| WCDMA / HSPA+ Band V      | 826.4  | - 846.6  |

| LTE Band | BW (MHz) | Operation Frequency (MHz) |          | LTE Band  | BW (MHz) | Operation Frequency (MHz) |          |
|----------|----------|---------------------------|----------|-----------|----------|---------------------------|----------|
| 2        | 1.4      | 1850.7                    | - 1909.3 | 25        | 1.4      | 1850.7                    | - 1914.3 |
|          | 3        | 1851.5                    | - 1908.5 |           | 3        | 1851.5                    | - 1913.5 |
|          | 5        | 1852.5                    | - 1907.5 |           | 5        | 1852.5                    | - 1912.5 |
|          | 10       | 1855.0                    | - 1905.0 |           | 10       | 1855.0                    | - 1910.0 |
|          | 15       | 1857.5                    | - 1902.5 |           | 15       | 1857.5                    | - 1907.5 |
|          | 20       | 1860.0                    | - 1900.0 |           | 20       | 1860.0                    | - 1905.0 |
| 4        | 1.4      | 1710.7                    | - 1754.3 | 26        | 1.4      | 824.7                     | - 848.3  |
|          | 3        | 1711.5                    | - 1753.5 |           | 3        | 825.5                     | - 847.5  |
|          | 5        | 1712.5                    | - 1752.5 |           | 5        | 826.5                     | - 846.5  |
|          | 10       | 1715.0                    | - 1780.0 |           | 10       | 829.0                     | - 844.0  |
|          | 15       | 1717.5                    | - 1747.5 |           | 15       | 831.5                     | - 841.5  |
|          | 20       | 1720.0                    | - 1745.0 | 26 Part90 | 1.4      | 814.7                     | - 823.3  |
| 5        | 1.4      | 824.7                     | - 848.3  |           | 3        | 815.5                     | - 822.5  |
|          | 3        | 825.5                     | - 847.5  |           | 5        | 816.5                     | - 821.5  |
|          | 5        | 826.5                     | - 846.5  |           | 10       | 819.0                     |          |
|          | 10       | 829.0                     | - 844.0  | 30        | 5        | 2307.5                    | - 2312.5 |
| 12       | 1.4      | 699.7                     | - 715.3  |           | 10       | 2310.0                    |          |
|          | 3        | 700.5                     | - 714.5  |           |          |                           |          |
|          | 5        | 701.5                     | - 713.5  |           |          |                           |          |
|          | 10       | 704.0                     | - 711.0  |           |          |                           |          |
| 13       | 5        | 779.5                     | - 784.5  |           |          |                           |          |
|          | 10       | 782                       |          |           |          |                           |          |
| 17       | 5        | 706.5                     | - 713.5  |           |          |                           |          |
|          | 10       | 709.0                     | - 711.0  |           |          |                           |          |

| LTE Band | BW (MHz) | Operation Frequency (MHz) |          | LTE Band | BW (MHz) | Operation Frequency (MHz) |          |
|----------|----------|---------------------------|----------|----------|----------|---------------------------|----------|
| 41       | 5        | 2498.5                    | - 2687.5 | 66       | 1.4      | 1710.7                    | - 1779.3 |
|          | 10       | 2501.0                    | - 2685.0 |          | 3        | 1711.5                    | - 1778.5 |
|          | 15       | 2503.5                    | - 2682.5 |          | 5        | 1712.5                    | - 1777.5 |
|          | 20       | 2506.0                    | - 2680.0 |          | 10       | 1715.0                    | - 1775.0 |
|          |          |                           | 15       |          | 1717.5   | - 1772.5                  |          |
|          |          |                           | 20       |          | 1720.0   | - 1770.0                  |          |

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## Antenna Designation

| Vendor            | Type   | Main / Aux | Antenna Part No.                                                               | Modulation                | Frequency (MHz) | Peak Antenna Gain (dBi) |
|-------------------|--------|------------|--------------------------------------------------------------------------------|---------------------------|-----------------|-------------------------|
| INPAQ Corporation | Couple | Main       | DQ600200303/DQ600200402<br>(WA-F-LTE8LTE6-02-003/<br>WA-F-LTE8LTE6-02-004 )    | WCDMA / HSPA Band II      | 1852.4 ~ 1907.6 | -0.76                   |
|                   |        |            |                                                                                | WCDMA / HSPA Band IV      | 1712.4 ~ 1752.6 | 0                       |
|                   |        |            |                                                                                | WCDMA / HSPA Band V       | 826.4 ~ 846.6   | -0.92                   |
|                   |        |            |                                                                                | LTE Band 2                | 1850 ~ 1910     | -0.76                   |
|                   |        |            |                                                                                | LTE Band 4                | 1710 ~ 1755     | 0.02                    |
|                   |        |            |                                                                                | LTE Band 5                | 824 ~ 849       | -0.66                   |
|                   |        |            |                                                                                | LTE Band 12               | 699 ~ 716       | -1.09                   |
|                   |        |            |                                                                                | LTE Band 13               | 777 ~ 787       | -1.63                   |
|                   |        |            |                                                                                | LTE Band 17               | 704 ~ 716       | -1.09                   |
|                   |        |            |                                                                                | LTE Band 25               | 1850 ~ 1915     | -0.76                   |
|                   |        |            |                                                                                | LTE Band 26               | 824 ~ 849       | -0.66                   |
|                   |        |            |                                                                                | LTE Band 26<br>(Part 90S) | 814 ~ 824       | N/A                     |
|                   |        |            |                                                                                | LTE Band 30               | 2305 ~ 2315     | N/A                     |
|                   |        |            |                                                                                | LTE Band 41               | 2496 ~ 2690     | -1.43                   |
|                   |        |            |                                                                                | LTE Band 66               | 1710 ~ 1780     | 0.02                    |
|                   | Couple | Aux        | DQ6LB020013/DQ6LB020014<br>(WA-F-LTE8LBG1LB-02-003<br>/WA-F-LTE8LBG1LB-02-004) | WCDMA / HSPA Band II      | 1852.4 ~ 1907.6 | -3.13                   |
|                   |        |            |                                                                                | WCDMA / HSPA Band IV      | 1712.4 ~ 1752.6 | N/A                     |
|                   |        |            |                                                                                | WCDMA / HSPA Band V       | 826.4 ~ 846.6   | N/A                     |
|                   |        |            |                                                                                | LTE Band 2                | 1850 ~ 1910     | -3.13                   |
|                   |        |            |                                                                                | LTE Band 4                | 1710 ~ 1755     | N/A                     |
|                   |        |            |                                                                                | LTE Band 5                | 824 ~ 849       | N/A                     |
|                   |        |            |                                                                                | LTE Band 12               | 699 ~ 716       | N/A                     |
|                   |        |            |                                                                                | LTE Band 13               | 777 ~ 787       | -3.16                   |
|                   |        |            |                                                                                | LTE Band 17               | 704 ~ 716       | N/A                     |
|                   |        |            |                                                                                | LTE Band 25               | 1850 ~ 1915     | -3.13                   |
|                   |        |            |                                                                                | LTE Band 26               | 824 ~ 849       | N/A                     |
|                   |        |            |                                                                                | LTE Band 26<br>(Part 90S) | 814 ~ 824       | -4.42                   |
|                   |        |            |                                                                                | LTE Band 30               | 2305 ~ 2315     | -3.13                   |
|                   |        |            |                                                                                | LTE Band 41               | 2496 ~ 2690     | N/A                     |
|                   |        |            |                                                                                | LTE Band 66               | 1710 ~ 1780     | N/A                     |

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### Type of Emission & Max ERP/EIRP Power Measurement Result::

|               | ERP / EIRP (dBm) |      | (W)   | Type of Emission |
|---------------|------------------|------|-------|------------------|
| WCDMA Band II | 19.45            | EIRP | 0.088 | 4M12F9W          |
| HSDPA Band II | 19.19            | EIRP | 0.083 | 4M13F9W          |
| HSUPA Band II | 19.11            | EIRP | 0.081 | 4M12F9W          |
| WCDMA Band IV | 17.39            | EIRP | 0.055 | 4M12F9W          |
| HSDPA Band IV | 17.65            | EIRP | 0.058 | 4M13F9W          |
| HSUPA Band IV | 17.45            | EIRP | 0.056 | 4M13F9W          |
| WCDMA Band V  | 22.25            | ERP  | 0.168 | 4M14F9W          |
| HSDPA Band V  | 17.59            | ERP  | 0.057 | 4M14F9W          |
| HSUPA Band V  | 14.24            | ERP  | 0.027 | 4M12F9W          |

| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) |      | (W)          | Type of Emission |
|----------|----------|------------|------------------|------|--------------|------------------|
| 2        | 1.4      | QPSK       | 23.50            | EIRP | 0.224        | 1M09G7D          |
|          | 1.4      | 16QAM      | 23.56            | EIRP | 0.227        | 1M09D7W          |
|          | 1.4      | 64QAM      | 17.50            | EIRP | 0.056        | 1M09D7W          |
|          | 3        | QPSK       | 23.67            | EIRP | 0.233        | 2M70G7D          |
|          | 3        | 16QAM      | <b>23.71</b>     | EIRP | <b>0.235</b> | 2M70D7W          |
|          | 3        | 64QAM      | 17.78            | EIRP | 0.060        | 2M71D7W          |
|          | 5        | QPSK       | 23.30            | EIRP | 0.214        | 4M50G7D          |
|          | 5        | 16QAM      | 23.43            | EIRP | 0.220        | 4M50D7W          |
|          | 5        | 64QAM      | 17.85            | EIRP | 0.061        | 4M50D7W          |
|          | 10       | QPSK       | 23.36            | EIRP | 0.217        | 9M00G7D          |
|          | 10       | 16QAM      | 23.44            | EIRP | 0.221        | 8M96D7W          |
|          | 10       | 64QAM      | 17.22            | EIRP | 0.053        | 8M99D7W          |
|          | 15       | QPSK       | 23.39            | EIRP | 0.218        | 13M5G7D          |
|          | 15       | 16QAM      | 23.36            | EIRP | 0.217        | 13M5D7W          |
|          | 15       | 64QAM      | 21.92            | EIRP | 0.156        | 13M5D7W          |
|          | 20       | QPSK       | 23.46            | EIRP | 0.222        | 17M9G7D          |
|          | 20       | 16QAM      | 23.58            | EIRP | 0.228        | <b>18M0D7W</b>   |
|          | 20       | 64QAM      | 21.40            | EIRP | 0.138        | 17M9D7W          |

| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) |      | (W)          | Type of Emission |
|----------|----------|------------|------------------|------|--------------|------------------|
| 4        | 1.4      | QPSK       | 20.63            | EIRP | 0.116        | 1M11G7D          |
|          | 1.4      | 16QAM      | 20.66            | EIRP | 0.116        | 1M11D7W          |
|          | 1.4      | 64QAM      | 21.33            | EIRP | 0.136        | 1M12D7W          |
|          | 3        | QPSK       | 20.75            | EIRP | 0.119        | 2M73G7D          |
|          | 3        | 16QAM      | 20.59            | EIRP | 0.115        | 2M72D7W          |
|          | 3        | 64QAM      | 14.57            | EIRP | 0.029        | 2M75D7W          |
|          | 5        | QPSK       | 20.91            | EIRP | 0.123        | 4M54G7D          |
|          | 5        | 16QAM      | 20.52            | EIRP | 0.113        | 4M54D7W          |
|          | 5        | 64QAM      | 14.56            | EIRP | 0.029        | 4M55D7W          |
|          | 10       | QPSK       | <b>21.76</b>     | EIRP | <b>0.150</b> | 9M04G7D          |
|          | 10       | 16QAM      | 21.53            | EIRP | 0.142        | 9M01D7W          |
|          | 10       | 64QAM      | 14.29            | EIRP | 0.027        | 9M03D7W          |
|          | 15       | QPSK       | 21.55            | EIRP | 0.143        | 13M5G7D          |
|          | 15       | 16QAM      | 21.36            | EIRP | 0.137        | 13M6D7W          |
|          | 15       | 64QAM      | 14.22            | EIRP | 0.026        | 13M6D7W          |
|          | 20       | QPSK       | 2.58             | EIRP | 0.002        | 18M1G7D          |
|          | 20       | 16QAM      | 21.68            | EIRP | 0.147        | 18M1D7W          |
|          | 20       | 64QAM      | 14.64            | EIRP | 0.029        | 18M2D7W          |

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| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) |      | (W)          | Type of Emission |
|----------|----------|------------|------------------|------|--------------|------------------|
| 5        | 1.4      | QPSK       | 27.54            | ERP  | 0.568        | 1M09G7D          |
|          | 1.4      | 16QAM      | <b>27.83</b>     | ERP  | <b>0.607</b> | 1M09D7W          |
|          | 1.4      | 64QAM      | 26.64            | ERP  | 0.461        | 1M09D7W          |
|          | 3        | QPSK       | 27.13            | ERP  | 0.516        | 2M70G7D          |
|          | 3        | 16QAM      | 26.99            | ERP  | 0.500        | 2M70D7W          |
|          | 3        | 64QAM      | 25.93            | ERP  | 0.392        | 2M71D7W          |
|          | 5        | QPSK       | 26.58            | ERP  | 0.455        | 4M50G7D          |
|          | 5        | 16QAM      | 27.31            | ERP  | 0.538        | 4M50D7W          |
|          | 5        | 64QAM      | 27.56            | ERP  | 0.570        | 4M50D7W          |
|          | 10       | QPSK       | 26.91            | ERP  | 0.491        | <b>9M01G7D</b>   |
|          | 10       | 16QAM      | 25.90            | ERP  | 0.389        | 8M97D7W          |
|          | 10       | 64QAM      | 25.47            | ERP  | 0.352        | 9M00D7W          |
| 13       | 5        | QPSK       | 27.53            | ERP  | 0.566        | 4M50G7D          |
|          | 5        | 16QAM      | <b>27.66</b>     | ERP  | <b>0.583</b> | 4M50D7W          |
|          | 5        | 64QAM      | 19.88            | ERP  | 0.097        | 4M51D7W          |
|          | 10       | QPSK       | 27.41            | ERP  | 0.551        | <b>8M97G7D</b>   |
|          | 10       | 16QAM      | 27.38            | ERP  | 0.547        | 8M95D7W          |
|          | 10       | 64QAM      | 19.36            | ERP  | 0.086        | <b>8M97D7W</b>   |
| 25       | 1.4      | QPSK       | 17.53            | EIRP | 0.057        | 1M09G7D          |
|          | 1.4      | 16QAM      | 17.27            | EIRP | 0.053        | 1M10D7W          |
|          | 1.4      | 64QAM      | 16.67            | EIRP | 0.046        | 1M09D7W          |
|          | 3        | QPSK       | 16.50            | EIRP | 0.045        | 2M70G7D          |
|          | 3        | 16QAM      | 16.75            | EIRP | 0.047        | 2M70D7W          |
|          | 3        | 64QAM      | 16.21            | EIRP | 0.042        | 2M71D7W          |
|          | 5        | QPSK       | 16.16            | ERP  | 0.041        | 4M50G7D          |
|          | 5        | 16QAM      | 16.14            | ERP  | 0.041        | 4M51D7W          |
|          | 5        | 64QAM      | 16.14            | ERP  | 0.041        | 4M50D7W          |
|          | 10       | QPSK       | <b>21.25</b>     | ERP  | <b>0.133</b> | 9M01G7D          |
|          | 10       | 16QAM      | 21.06            | ERP  | 0.128        | 8M96D7W          |
|          | 10       | 64QAM      | 21.13            | ERP  | 0.130        | 8M99D7W          |
|          | 15       | QPSK       | 20.75            | ERP  | 0.119        | 13M5G7D          |
|          | 15       | 16QAM      | 20.91            | ERP  | 0.123        | 13M5D7W          |
|          | 15       | 64QAM      | 20.96            | ERP  | 0.125        | 13M5D7W          |
|          | 20       | QPSK       | 17.80            | ERP  | 0.060        | 17M9G7D          |
|          | 20       | 16QAM      | 17.90            | ERP  | 0.062        | 17M9D7W          |
|          | 20       | 64QAM      | 17.87            | ERP  | 0.061        | <b>17M9D7W</b>   |

| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) |     | (W)          | Type of Emission |
|----------|----------|------------|------------------|-----|--------------|------------------|
| 12       | 1.4      | QPSK       | 22.72            | ERP | 0.187        | 1M09G7D          |
|          | 1.4      | 16QAM      | 22.90            | ERP | 0.195        | 1M10D7W          |
|          | 1.4      | 64QAM      | 20.72            | ERP | 0.118        | 1M09D7W          |
|          | 3        | QPSK       | 22.74            | ERP | 0.188        | 2M70G7D          |
|          | 3        | 16QAM      | 22.73            | ERP | 0.187        | 2M77D7W          |
|          | 3        | 64QAM      | 20.65            | ERP | 0.116        | 2M71D7W          |
|          | 5        | QPSK       | <b>22.93</b>     | ERP | <b>0.196</b> | 4M50G7D          |
|          | 5        | 16QAM      | 22.67            | ERP | 0.185        | 4M50D7W          |
|          | 5        | 64QAM      | 20.61            | ERP | 0.115        | 4M50D7W          |
|          | 10       | QPSK       | 22.43            | ERP | 0.175        | 8M98G7D          |
|          | 10       | 16QAM      | 22.70            | ERP | 0.186        | 8M96D7W          |
|          | 10       | 64QAM      | 20.48            | ERP | 0.112        | <b>8M99D7W</b>   |
| 17       | 5        | QPSK       | 19.15            | ERP | 0.082        | 4M50G7D          |
|          | 5        | 16QAM      | <b>19.19</b>     | ERP | <b>0.083</b> | 4M51D7W          |
|          | 5        | 64QAM      | 19.06            | ERP | 0.081        | 4M51D7W          |
|          | 10       | QPSK       | 16.51            | ERP | 0.045        | <b>9M01G7D</b>   |
|          | 10       | 16QAM      | 17.46            | ERP | 0.056        | 8M96D7W          |
|          | 10       | 64QAM      | 17.50            | ERP | 0.056        | 8M98D7W          |
| 26       | 1.4      | QPSK       | <b>27.55</b>     | ERP | <b>0.569</b> | 1M10G7D          |
|          | 1.4      | 16QAM      | 27.17            | ERP | 0.521        | 1M10D7W          |
|          | 1.4      | 64QAM      | 22.50            | ERP | 0.178        | 1M09D7W          |
|          | 3        | QPSK       | 26.03            | ERP | 0.401        | 2M70G7D          |
|          | 3        | 16QAM      | 25.84            | ERP | 0.384        | 2M70D7W          |
|          | 3        | 64QAM      | 18.92            | ERP | 0.078        | 2M71D7W          |
|          | 5        | QPSK       | 26.16            | ERP | 0.413        | 4M50G7D          |
|          | 5        | 16QAM      | 26.15            | ERP | 0.412        | 4M49D7W          |
|          | 5        | 64QAM      | 19.18            | ERP | 0.083        | 4M50D7W          |
|          | 10       | QPSK       | 26.56            | ERP | 0.453        | 8M99G7D          |
|          | 10       | 16QAM      | 25.42            | ERP | 0.348        | 8M97D7W          |
|          | 10       | 64QAM      | 19.18            | ERP | 0.083        | 8M99D7W          |
|          | 15       | QPSK       | 26.73            | ERP | 0.471        | 13M5G7D          |
|          | 15       | 16QAM      | 26.72            | ERP | 0.470        | 13M5D7W          |
|          | 15       | 64QAM      | 19.28            | ERP | 0.085        | <b>13M5D7W</b>   |

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| LTE Band  | BW (MHz) | Modulation | ERP / EIRP (dBm) |     | (W)          | Type of Emission |
|-----------|----------|------------|------------------|-----|--------------|------------------|
| 26 Part90 | 1.4      | QPSK       | 23.24            | ERP | 0.211        | 1M09G7D          |
|           | 1.4      | 16QAM      | 22.41            | ERP | 0.174        | 1M10D7W          |
|           | 1.4      | 64QAM      | 22.25            | ERP | 0.168        | 1M09D7W          |
|           | 3        | QPSK       | 23.39            | ERP | 0.218        | 2M70G7D          |
|           | 3        | 16QAM      | 22.59            | ERP | 0.182        | 2M70D7W          |
|           | 3        | 64QAM      | 22.42            | ERP | 0.175        | 2M71D7W          |
|           | 5        | QPSK       | <b>23.51</b>     | ERP | <b>0.224</b> | 4M50G7D          |
|           | 5        | 16QAM      | 21.77            | ERP | 0.150        | 4M50D7W          |
|           | 5        | 64QAM      | 21.48            | ERP | 0.141        | 4M50D7W          |
|           | 10       | QPSK       | 23.35            | ERP | 0.216        | 8M97G7D          |
|           | 10       | 16QAM      | 22.51            | ERP | 0.178        | 8M97D7W          |
|           | 10       | 64QAM      | 22.42            | ERP | 0.175        | <b>8M99D7W</b>   |

| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) |      | (W)          | Type of Emission |
|----------|----------|------------|------------------|------|--------------|------------------|
| 30       | 5        | QPSK       | 22.32            | EIRP | 0.171        | 4M50G7D          |
|          | 5        | 16QAM      | 23.23            | EIRP | 0.210        | 4M51D7W          |
|          | 5        | 64QAM      | 23.05            | EIRP | 0.202        | 4M50D7W          |
|          | 10       | QPSK       | <b>23.55</b>     | EIRP | <b>0.226</b> | <b>9M01G7D</b>   |
|          | 10       | 16QAM      | 23.49            | EIRP | 0.223        | 8M96D7W          |
|          | 10       | 64QAM      | 23.38            | EIRP | 0.218        | 8M98D7W          |

| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) |      | (W)          | Type of Emission |
|----------|----------|------------|------------------|------|--------------|------------------|
| 41       | 5        | QPSK       | 22.83            | EIRP | 0.192        | 4M51G7D          |
|          | 5        | 16QAM      | 22.78            | EIRP | 0.190        | 4M51D7W          |
|          | 5        | 64QAM      | 22.86            | EIRP | 0.193        | 4M50D7W          |
|          | 10       | QPSK       | 23.22            | EIRP | 0.210        | 9M00G7D          |
|          | 10       | 16QAM      | 23.19            | EIRP | 0.208        | 8M97D7W          |
|          | 10       | 64QAM      | 23.22            | EIRP | 0.210        | 8M99D7W          |
|          | 15       | QPSK       | 23.15            | EIRP | 0.207        | 13M5G7D          |
|          | 15       | 16QAM      | 23.12            | EIRP | 0.205        | 13M5D7W          |
|          | 15       | 64QAM      | 23.05            | EIRP | 0.202        | 13M4D7W          |
|          | 20       | QPSK       | 23.31            | EIRP | 0.214        | <b>17M9G7D</b>   |
|          | 20       | 16QAM      | 23.30            | EIRP | 0.214        | 17M9D7W          |
|          | 20       | 64QAM      | <b>23.39</b>     | EIRP | <b>0.218</b> | 17M9D7W          |

| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) |      | (W)          | Type of Emission |
|----------|----------|------------|------------------|------|--------------|------------------|
| 66       | 1.4      | QPSK       | 23.81            | EIRP | 0.240        | 1M10G7D          |
|          | 1.4      | 16QAM      | 22.78            | EIRP | 0.190        | 1M10D7W          |
|          | 1.4      | 64QAM      | 22.62            | EIRP | 0.183        | 1M10D7W          |
|          | 3        | QPSK       | 23.77            | EIRP | 0.238        | 2M70G7D          |
|          | 3        | 16QAM      | 22.81            | EIRP | 0.191        | 2M71D7W          |
|          | 3        | 64QAM      | 22.70            | EIRP | 0.186        | 2M71D7W          |
|          | 5        | QPSK       | 23.68            | EIRP | 0.233        | 4M50G7D          |
|          | 5        | 16QAM      | 23.10            | EIRP | 0.204        | 4M51D7W          |
|          | 5        | 64QAM      | 22.66            | EIRP | 0.185        | 4M50D7W          |
|          | 10       | QPSK       | 23.89            | EIRP | 0.245        | 9M01G7D          |
|          | 10       | 16QAM      | 22.94            | EIRP | 0.197        | 8M99D7W          |
|          | 10       | 64QAM      | 22.66            | EIRP | 0.185        | 9M00D7W          |
|          | 15       | QPSK       | 24.66            | EIRP | 0.292        | 13M5G7D          |
|          | 15       | 16QAM      | 23.41            | EIRP | 0.219        | 13M5D7W          |
|          | 15       | 64QAM      | 22.86            | EIRP | 0.193        | 13M5D7W          |
|          | 20       | QPSK       | <b>24.71</b>     | EIRP | <b>0.296</b> | 18M1G7D          |
|          | 20       | 16QAM      | 23.82            | EIRP | 0.241        | <b>18M1D7W</b>   |
|          | 20       | 64QAM      | 23.57            | EIRP | 0.228        | 18M1D7W          |

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| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) |      | (W)          | Type of Emission |
|----------|----------|------------|------------------|------|--------------|------------------|
| 66       | 1.4      | QPSK       | 23.81            | EIRP | 0.240        | 1M10G7D          |
| 66       | 1.4      | 16QAM      | 22.78            | EIRP | 0.190        | 1M10D7W          |
| 66       | 1.4      | 64QAM      | 22.62            | EIRP | 0.183        | 1M10D7W          |
| 66       | 3        | QPSK       | 23.77            | EIRP | 0.238        | 2M70G7D          |
| 66       | 3        | 16QAM      | 22.81            | EIRP | 0.191        | 2M71D7W          |
| 66       | 3        | 64QAM      | 22.70            | EIRP | 0.186        | 2M71D7W          |
| 66       | 5        | QPSK       | 23.68            | EIRP | 0.233        | 4M50G7D          |
| 66       | 5        | 16QAM      | 23.10            | EIRP | 0.204        | 4M51D7W          |
| 66       | 5        | 64QAM      | 22.66            | EIRP | 0.185        | 4M50D7W          |
| 66       | 10       | QPSK       | 23.89            | EIRP | 0.245        | 9M01G7D          |
| 66       | 10       | 16QAM      | 22.94            | EIRP | 0.197        | 8M99D7W          |
| 66       | 10       | 64QAM      | 22.66            | EIRP | 0.185        | 9M00D7W          |
| 66       | 15       | QPSK       | 24.66            | EIRP | 0.292        | 13M5G7D          |
| 66       | 15       | 16QAM      | 23.41            | EIRP | 0.219        | 13M5D7W          |
| 66       | 15       | 64QAM      | 22.86            | EIRP | 0.193        | 13M5D7W          |
| 66       | 20       | QPSK       | <b>24.71</b>     | EIRP | <b>0.296</b> | 18M1G7D          |
| 66       | 20       | 16QAM      | 23.82            | EIRP | 0.241        | <b>18M1D7W</b>   |
| 66       | 20       | 64QAM      | 23.57            | EIRP | 0.228        | 18M1D7W          |

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## 1.2. Test Methodology of Applied Standards

CC 47 CFR Part 2, 22, 24, 27, Part 90S.

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System

KDB941225 of the Output power Procedure of (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

TS 151 010-1 is used to set, and measure the output power.

Note: All test items have been performed and record as per the above standards.

## 1.3. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 735305

## 1.4. Special Accessories

No special accessories were used during testing.

## 1.5. Equipment Modifications

There were no modifications incorporated into the EUT.

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## 2. SYSTEM TEST CONFIGURATION

### 2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2. EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

### 2.3. Test Procedure

#### 2.3.1 Conducted Measurement at Antenna Port

According to measurement procured ANSI C63.26-2015, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

#### 2.3.2 Radiated Emissions (ERP/EIRP)

According to measurement procured ANSI C63.26-2015, The EUT is a placed on as turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13.

### 2.4. Measurement Results Explanation Example

#### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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**Note:**

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.  
Following shows an offset computation example with cable loss 0.5 dB and 10 dB attenuator and 5.4 dB for splitter.

$$\text{Offset} = \text{RF cable loss (dB)} + \text{attenuation factor(dB)} = 0.5 + 15.4 = 15.9(\text{dB})$$

## 2.5. Final Amplifier Voltage and Current Information:

| Test Mode              | DC voltage (V) | DC current (mA) |
|------------------------|----------------|-----------------|
| WCDMA B2               | 11.55          | 0.785           |
| WCDMA B4               |                | 0.785           |
| WCDMA B5               |                | 0.776           |
| LTE Band 2             |                | 0.748           |
| LTE Band 4             |                | 0.875           |
| LTE Band 5             |                | 0.715           |
| LTE Band 12            |                | 0.699           |
| LTE Band 13            |                | 0.734           |
| LTE Band 17            |                | 0.692           |
| LTE Band 25            |                | 0.862           |
| LTE Band 26            |                | 0.712           |
| LTE Band 26 (Part 90S) |                | 0.701           |
| LTE Band 30            |                | 0.854           |
| LTE Band 38            |                | 0.864           |
| LTE Band 41            |                | 0.865           |
| LTE Band 66            |                | 0.876           |

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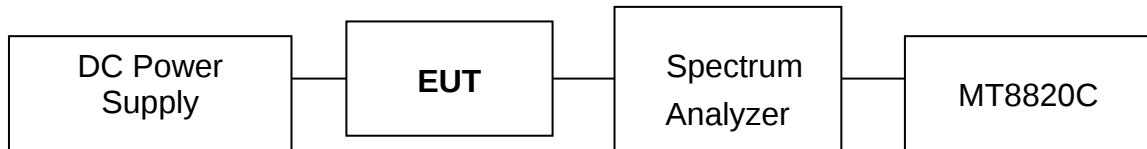
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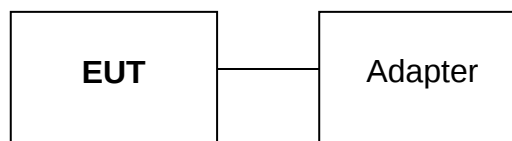
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## 2.6. Configuration of Tested System

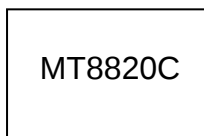
**Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)**



**Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)**



**Remote Side**



**Table 2-1 Equipment Used in**

| Item | Equipment                            | Mfr/Brand | Model/<br>Type No. | Series No. | Data Cable | Power Cord  |
|------|--------------------------------------|-----------|--------------------|------------|------------|-------------|
| 2.   | Universal Radio Communication Tester | Anritsu   | MT8820C            | 6200307563 | shielded   | Un-shielded |

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### 3. SUMMARY OF TEST RESULTS

| FCC Rules                                                                                                                           | Description Of Test                                                                   | Result    |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------|
| §2.1046(a)                                                                                                                          | RF Power Output                                                                       | Compliant |
| §2.1046(a) §22.913(a)(5)<br>§24.232(c) §27.50(a)(3)<br>§27.50(c)(10) §27.50(d)(4)<br>§90.635                                        | ERP/ EIRP measurement                                                                 | Compliant |
| §2.1049(h)                                                                                                                          | 99% & 26dB Occupied Bandwidth                                                         | Compliant |
| §2.1051 §22.917(a)<br>§24.238(a) §27.53(g)<br>§27.50(c)(5) §27.53(h)<br>§27.53(m)(4)(6) §90.691                                     | Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements | Compliant |
| §2.1053 §22.917(a)<br>§24.238(a) §27.53(c)(2),(4)<br>§27.50(c)(5) §27.53(f)<br>§27.53(g) §27.53(h)<br>§27.53(m)(4) §90.691(a)(1)(2) | Field Strength of Spurious Radiation                                                  | Compliant |
| §24.232(d) §27.53(d) (5)<br>§27.50(i) (B)                                                                                           | Peak to Average Ratio                                                                 | Compliant |
| §2.1055(a)(1) §22.355<br>§24.235 §27.54<br>§90.213                                                                                  | Frequency Stability                                                                   | Compliant |

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## 4. DESCRIPTION OF TEST MODES

### 4.1. The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

| BAND                   | ERP/EIRP | RADIATED EMISSION |
|------------------------|----------|-------------------|
| WCDMA/HSPA Band II     | E2-plan  | E2-plan           |
| WCDMA/HSPA Band V      | E2-plan  | E2-plan           |
| LTE Band 2             | E2-plan  | E2-plan           |
| LTE Band 4             | E2-plan  | E2-plan           |
| LTE Band 5             | E2-plan  | E2-plan           |
| LTE Band 12            | E2-plan  | E2-plan           |
| LTE Band 13            | E2-plan  | E2-plan           |
| LTE Band 17            | E2-plan  | E2-plan           |
| LTE Band 25            | E2-plan  | E2-plan           |
| LTE Band 26            | E2-plan  | E2-plan           |
| LTE Band 26 (Part 90S) | E2-plan  | E2-plan           |
| LTE Band 30            | E2-plan  | E2-plan           |
| LTE Bnad 38            | E2-plan  | E2-plan           |
| LTE Band 41            | E2-plan  | E2-plan           |
| LTE Band 66            | E2-plan  | E2-plan           |

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## WCDMA/HSPA MODE

| TEST ITEM             | AVAILABLE CHANNEL            | TESTED CHANNEL                       | MODE                                    |
|-----------------------|------------------------------|--------------------------------------|-----------------------------------------|
| ERP                   | 4132 to 4233                 | 4132, 4183, 4233                     | WCDMA/HSPA Band V                       |
| EIRP                  | 9262 to 9538                 | 9262, 9400, 9538                     | WCDMA/HSPA Band II                      |
| FREQUENCY STABILITY   | 4132 to 4233<br>9262 to 9538 | 4183<br>9400                         | WCDMA Band II<br>WCDMA Band V           |
| OCCUPIED BANDWIDTH    | 4132 to 4233<br>9262 to 9538 | 4132, 4183, 4233<br>9262, 9400, 9538 | WCDMA/HSPA Band II<br>WCDMA/HSPA Band V |
| PEAK TO AVERAGE RATIO | 4132 to 4233<br>9262 to 9538 | 4132, 4183, 4233<br>9262, 9400, 9538 | WCDMA/HSPA Band II<br>WCDMA/HSPA Band V |
| BAND EDGE             | 4132 to 4233<br>9262 to 9538 | 4132, 4233<br>9262, 9538             | WCDMA Band II<br>WCDMA Band V           |
| CONDUCTED EMISSION    | 4132 to 4233<br>9262 to 9538 | 4132, 4183, 4233<br>9262, 9400, 9538 | WCDMA Band II<br>WCDMA Band V           |
| RADIATED EMISSION     | 4132 to 4233<br>9262 to 9538 | 4132, 4183, 4233<br>9262, 9400, 9538 | WCDMA Band II<br>WCDMA Band V           |

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## LTE Band 2 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION         | MODE                         |
|-----------------------|-------------------|---------------------|-------------------|--------------------|------------------------------|
| EIRP                  | 18607 to 19193    | 18607, 18900, 19193 | 1.4MHz            | QPSK, 16QAM, 64QAM | 1 RB/ 0,5 RB Offest          |
|                       | 18615 to 19185    | 18615, 18900, 19185 | 3MHz              | QPSK, 16QAM, 64QAM | 1 RB/ 0,14 RB Offest         |
|                       | 18625 to 19175    | 18625, 18900, 19175 | 5MHz              | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest         |
|                       | 18650 to 19150    | 18650, 18900, 19150 | 10MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest         |
|                       | 18675 to 19125    | 18675, 18900, 19125 | 15MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,74 RB Offest         |
|                       | 18700 to 19100    | 18700, 18900, 19100 | 20MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,99 RB Offest         |
| FREQUENCY STA-BILITY  | 18650 to 19150    | 18900               | 10MHz             | QPSK,              | Full RB                      |
| OCCUPIED BAND-WIDTH   | 18607 to 19193    | 18607, 18900, 19193 | 1.4MHz            | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 18615 to 19185    | 18615, 18900, 19185 | 3MHz              | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 18625 to 19175    | 18625, 18900, 19175 | 5MHz              | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 18650 to 19150    | 18650, 18900, 19150 | 10MHz             | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 18675 to 19125    | 18675, 18900, 19125 | 15MHz             | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 18700 to 19100    | 18700, 18900, 19100 | 20MHz             | QPSK, 16QAM, 64QAM | Full RB                      |
| PEAK TO AVERAGE RATIO | 18607 to 19193    | 18607, 18900, 19193 | 1.4MHz            | 64QAM              | Full RB                      |
|                       | 18615 to 19185    | 18615, 18900, 19185 | 3MHz              | 64QAM              | Full RB                      |
|                       | 18625 to 19175    | 18625, 18900, 19175 | 5MHz              | 64QAM              | Full RB                      |
|                       | 18650 to 19150    | 18650, 18900, 19150 | 10MHz             | 64QAM              | Full RB                      |
|                       | 18675 to 19125    | 18675, 18900, 19125 | 15MHz             | 64QAM              | Full RB                      |
|                       | 18700 to 19100    | 18700, 18900, 19100 | 20MHz             | 64QAM              | Full RB                      |
| BAND EDGE             | 18607 to 19193    | 18607, 19193        | 1.4MHz            | QPSK,              | 1 RB/ 0,5 RB Offes Full RB   |
|                       | 18615 to 19185    | 18615, 19185        | 3MHz              | QPSK,              | 1 RB/ 0,14 RB Offest Full RB |
|                       | 18625 to 19175    | 18625, 19175        | 5MHz              | QPSK,              | 1 RB/ 0,24 RB Offest Full RB |
|                       | 18650 to 19150    | 18650, 19150        | 10MHz             | QPSK,              | 1 RB/ 0,49 RB Offest Full RB |
|                       | 18675 to 19125    | 18675, 19125        | 15MHz             | QPSK,              | 1 RB/ 0,74 RB Offest Full RB |
|                       | 18700 to 19100    | 18700, 19100        | 20MHz             | QPSK,              | 1 RB/ 0,99 RB Offest Full RB |
| CONDCUDED EMISSION    | 18607 to 19193    | 18607, 18900, 19193 | 1.4MHz            | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 18615 to 19185    | 18615, 18900, 19185 | 3MHz              | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 18625 to 19175    | 18625, 18900, 19175 | 5MHz              | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 18650 to 19150    | 18650, 18900, 19150 | 10MHz             | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 18675 to 19125    | 18675, 18900, 19125 | 15MHz             | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 18700 to 19100    | 18700, 18900, 19100 | 20MHz             | QPSK,              | 1 RB, 0 RB Offest            |
| RADIATED EMIS-SION    | 18625 to 19175    | 18625, 18900, 19175 | 3MHz              | QPSK               | 1 RB, 14 RB Offest           |

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# LTE Band 4 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION         | MODE                         |
|-----------------------|-------------------|---------------------|-------------------|--------------------|------------------------------|
| EIRP                  | 19957 to 19393    | 19957, 20175, 19393 | 1.4MHz            | QPSK, 16QAM, 64QAM | 1 RB/ 0,5 RB Offest          |
|                       | 19965 to 22385    | 19965, 20175, 22385 | 3MHz              | QPSK, 16QAM, 64QAM | 1 RB/ 0,14 RB Offest         |
|                       | 19975 to 20375    | 19975, 20175, 20375 | 5MHz              | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest         |
|                       | 20000 to 20350    | 20000, 20175, 20350 | 10MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest         |
|                       | 20025 to 20325    | 20025, 20175, 20325 | 15MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,74 RB Offest         |
|                       | 20050 to 20300    | 20050, 20175, 20300 | 20MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,99 RB Offest         |
| FREQUENCY STA-BILITY  | 20000 to 20350    | 20175               | 10MHz             | QPSK,              | Full RB                      |
| OCCUPIED BAND-WIDTH   | 19957 to 19393    | 19957, 20175, 19393 | 1.4MHz            | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 19965 to 22385    | 19965, 20175, 22385 | 3MHz              | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 19975 to 20375    | 19975, 20175, 20375 | 5MHz              | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 20000 to 20350    | 20000, 20175, 20350 | 10MHz             | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 20025 to 20325    | 20025, 20175, 20325 | 15MHz             | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 20050 to 20300    | 20050, 20175, 20300 | 20MHz             | QPSK, 16QAM, 64QAM | Full RB                      |
| PEAK TO AVERAGE RATIO | 19957 to 19393    | 19957, 20175, 19393 | 1.4MHz            | 64QAM              | Full RB                      |
|                       | 19965 to 22385    | 19965, 20175, 22385 | 3MHz              | 64QAM              | Full RB                      |
|                       | 19975 to 20375    | 19975, 20175, 20375 | 5MHz              | 64QAM              | Full RB                      |
|                       | 20000 to 20350    | 20000, 20175, 20350 | 10MHz             | 64QAM              | Full RB                      |
|                       | 20025 to 20325    | 20025, 20175, 20325 | 15MHz             | 64QAM              | Full RB                      |
|                       | 20050 to 20300    | 20050, 20175, 20300 | 20MHz             | 64QAM              | Full RB                      |
| BAND EDGE             | 19957 to 19393    | 19957, 19393        | 1.4MHz            | QPSK,              | 1 RB/ 0,5 RB Offes Full RB   |
|                       | 19965 to 22385    | 19965, 22385        | 3MHz              | QPSK,              | 1 RB/ 0,14 RB Offest Full RB |
|                       | 19975 to 20375    | 19975, 20375        | 5MHz              | QPSK,              | 1 RB/ 0,24 RB Offest Full RB |
|                       | 20000 to 20350    | 20000, 20350        | 10MHz             | QPSK,              | 1 RB/ 0,49 RB Offest Full RB |
|                       | 20025 to 20325    | 20025, 20325        | 15MHz             | QPSK,              | 1 RB/ 0,74 RB Offest Full RB |
|                       | 20050 to 20300    | 20050, 20300        | 20MHz             | QPSK,              | 1 RB/ 0,99 RB Offest Full RB |
| CONDCUDED EMISSION    | 19957 to 19393    | 19957, 20175, 19393 | 1.4MHz            | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 19965 to 22385    | 19965, 20175, 22385 | 3MHz              | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 19975 to 20375    | 19975, 20175, 20375 | 5MHz              | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 20000 to 20350    | 20000, 20175, 20350 | 10MHz             | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 20025 to 20325    | 20025, 20175, 20325 | 15MHz             | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 20050 to 20300    | 20050, 20175, 20300 | 20MHz             | QPSK,              | 1 RB, 0 RB Offest            |
| RADIATED EMIS-SION    | 20000 to 20350    | 20000, 20175, 20350 | 10MHz             | QPSK,              | 1 RB, 49 RB Offest           |

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# LTE Band 5 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION         | MODE                         |
|-----------------------|-------------------|---------------------|-------------------|--------------------|------------------------------|
| ERP                   | 20470 to 20643    | 20470, 20525, 20643 | 1.4MHz            | QPSK, 16QAM, 64QAM | 1 RB/ 0,5 RB Offest          |
|                       | 20415 to 20635    | 20415, 20525, 20635 | 3MHz              | QPSK, 16QAM, 64QAM | 1 RB/ 0,14 RB Offest         |
|                       | 20425 to 20625    | 20425, 20525, 20625 | 5MHz              | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest         |
|                       | 20450 to 20600    | 20450, 20525, 20600 | 10MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest         |
| FREQUENCY STABILITY   | 20450 to 20600    | 20525               | 10MHz             | QPSK,              | Full RB                      |
| OCCUPIED BANDWIDTH    | 20470 to 20643    | 20470, 20525, 20643 | 1.4MHz            | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 20415 to 20635    | 20415, 20525, 20635 | 3MHz              | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 20425 to 20625    | 20425, 20525, 20625 | 5MHz              | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 20450 to 20600    | 20450, 20525, 20600 | 10MHz             | QPSK, 16QAM, 64QAM | Full RB                      |
| PEAK TO AVERAGE RATIO | 20470 to 20643    | 20470, 20525, 20643 | 1.4MHz            | 64QAM              | Full RB                      |
|                       | 20415 to 20635    | 20415, 20525, 20635 | 3MHz              | 64QAM              | Full RB                      |
|                       | 20425 to 20625    | 20425, 20525, 20625 | 5MHz              | 64QAM              | Full RB                      |
|                       | 20450 to 20600    | 20450, 20525, 20600 | 10MHz             | 64QAM              | Full RB                      |
| BAND EDGE             | 20470 to 20643    | 20470, 20643        | 1.4MHz            | QPSK,              | 1 RB/ 0,5 RB Offes Full RB   |
|                       | 20415 to 20635    | 20415, 20635        | 3MHz              | QPSK,              | 1 RB/ 0,14 RB Offest Full RB |
|                       | 20425 to 20625    | 20425, 20625        | 5MHz              | QPSK,              | 1 RB/ 0,24 RB Offest Full RB |
|                       | 20450 to 20600    | 20450, 20600        | 10MHz             | QPSK,              | 1 RB/ 0,49 RB Offest Full RB |
| CONDCUDED EMISSION    | 20470 to 20643    | 20470, 20525, 20643 | 1.4MHz            | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 20415 to 20635    | 20415, 20525, 20635 | 3MHz              | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 20425 to 20625    | 20425, 20525, 20625 | 5MHz              | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 20450 to 20600    | 20450, 20525, 20600 | 10MHz             | QPSK,              | 1 RB, 0 RB Offest            |
| RADIATED EMIS-SION    | 20450 to 20600    | 20450, 20525, 20600 | 1.4MHz            | 16QAM              | 1 RB, 0 RB Offest            |

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# LTE Band 12 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION         | MODE                         |
|-----------------------|-------------------|---------------------|-------------------|--------------------|------------------------------|
| ERP                   | 23017 to 23173    | 23017, 23095, 23173 | 1.4MHz            | QPSK, 16QAM, 64QAM | 1 RB/ 0,5 RB Offest          |
|                       | 23025 to 23165    | 23025, 23095, 23165 | 3MHz              | QPSK, 16QAM, 64QAM | 1 RB/ 0,14 RB Offest         |
|                       | 23035 to 23155    | 23035, 23095, 23155 | 5MHz              | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest         |
|                       | 23060 to 23130    | 23060, 23095, 23130 | 10MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest         |
| FREQUENCY STABILITY   | 23060 to 23130    | 23095               | 10MHz             | QPSK,              | Full RB                      |
| OCCUPIED BANDWIDTH    | 23017 to 23173    | 23017, 23095, 23173 | 1.4MHz            | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 23025 to 23165    | 23025, 23095, 23165 | 3MHz              | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 23035 to 23155    | 23035, 23095, 23155 | 5MHz              | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 23060 to 23130    | 23060, 23095, 23130 | 10MHz             | QPSK, 16QAM, 64QAM | Full RB                      |
| PEAK TO AVERAGE RATIO | 23017 to 23173    | 23017, 23095, 23173 | 1.4MHz            | 64QAM              | Full RB                      |
|                       | 23025 to 23165    | 23025, 23095, 23165 | 3MHz              | 64QAM              | Full RB                      |
|                       | 23035 to 23155    | 23035, 23095, 23155 | 5MHz              | 64QAM              | Full RB                      |
|                       | 23060 to 23130    | 23060, 23095, 23130 | 10MHz             | 64QAM              | Full RB                      |
| BAND EDGE             | 23017 to 23173    | 23017, 23095, 23173 | 1.4MHz            | QPSK,              | 1 RB/ 0,5 RB Offes Full RB   |
|                       | 23025 to 23165    | 23025, 23095, 23165 | 3MHz              | QPSK,              | 1 RB/ 0,14 RB Offest Full RB |
|                       | 23035 to 23155    | 23035, 23095, 23155 | 5MHz              | QPSK,              | 1 RB/ 0,24 RB Offest Full RB |
|                       | 23060 to 23130    | 23060, 23095, 23130 | 10MHz             | QPSK,              | 1 RB/ 0,49 RB Offest Full RB |
| CONDUCTED EMISSION    | 23017 to 23173    | 23017, 23095, 23173 | 1.4MHz            | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 23025 to 23165    | 23025, 23095, 23165 | 3MHz              | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 23035 to 23155    | 23035, 23095, 23155 | 5MHz              | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 23060 to 23130    | 23060, 23095, 23130 | 10MHz             | QPSK,              | 1 RB, 0 RB Offest            |
| RADIATED EMISSION     | 23035 to 23155    | 23035, 23095, 23155 | 5MHz              | QPSK               | 1 RB, 24 RB Offest           |

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### LTE Band 13 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION         | MODE                            |
|-----------------------|-------------------|---------------------|-------------------|--------------------|---------------------------------|
| ERP                   | 23205 to 23255    | 23205, 23230, 23255 | 5MHz              | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest            |
|                       | 23230             | 23230               | 10MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest            |
| FREQUENCY STABILITY   | 23230             | 23230               | 10MHz             | QPSK,              | Full RB                         |
| OCCUPIED BANDWIDTH    | 23205 to 23255    | 23205, 23230, 23255 | 5MHz              | QPSK, 16QAM, 64QAM | Full RB                         |
|                       | 23230             | 23230               | 10MHz             | QPSK, 16QAM, 64QAM | Full RB                         |
| PEAK TO AVERAGE RATIO | 23205 to 23255    | 23205, 23230, 23255 | 5MHz              | 64QAM              | Full RB                         |
|                       | 23230             | 23230               | 10MHz             | 64QAM              | Full RB                         |
| BAND EDGE             | 23205 to 23255    | 23205, 23255        | 5MHz              | QPSK,              | 1 RB/ 0,24 RB Offest<br>Full RB |
|                       | 23230             | 23230               | 10MHz             | QPSK,              | 1 RB/ 0,49 RB Offest<br>Full RB |
| CONDCUDED EMISSION    | 23205 to 23255    | 23205, 23230, 23255 | 5MHz              | QPSK,              | 1 RB, 0 RB Offest               |
|                       | 23230             | 23230               | 10MHz             | QPSK,              | 1 RB, 0 RB Offest               |
| RADIATED EMIS- SION   | 23205 to 23255    | 23205, 23230, 23255 | 5MHz              | 16QAM              | 1 RB/ 0 RB Offest               |

### LTE Band 17 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION         | MODE                            |
|-----------------------|-------------------|---------------------|-------------------|--------------------|---------------------------------|
| ERP                   | 23755 to 23825    | 23755, 23790, 23825 | 5MHz              | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest            |
|                       | 23780 to 23800    | 23780, 23790, 23800 | 10MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest            |
| FREQUENCY STABILITY   | 23780 to 23800    | 23790               | 10MHz             | QPSK,              | Full RB                         |
| OCCUPIED BANDWIDTH    | 23755 to 23825    | 23755, 23790, 23825 | 5MHz              | QPSK, 16QAM, 64QAM | Full RB                         |
|                       | 23780 to 23800    | 23780, 23790, 23800 | 10MHz             | QPSK, 16QAM, 64QAM | Full RB                         |
| PEAK TO AVERAGE RATIO | 23755 to 23825    | 23755, 23790, 23825 | 5MHz              | 64QAM              | Full RB                         |
|                       | 23780 to 23800    | 23780, 23790, 23800 | 10MHz             | 64QAM              | Full RB                         |
| BAND EDGE             | 23755 to 23825    | 23755, 23825        | 5MHz              | QPSK,              | 1 RB/ 0,24 RB Offest<br>Full RB |
|                       | 23780 to 23800    | 23780, 23800        | 10MHz             | QPSK,              | 1 RB/ 0,49 RB Offest<br>Full RB |
| CONDCUDED EMISSION    | 23755 to 23825    | 23755, 23790, 23825 | 5MHz              | QPSK,              | 1 RB, 0 RB Offest               |
|                       | 23780 to 23800    | 23780, 23790, 23800 | 10MHz             | QPSK,              | 1 RB, 0 RB Offest               |
| RADIATED EMIS- SION   | 23755 to 23825    | 23755, 23790, 23825 | 5MHz              | 16QAM              | 1 RB/ 0 RB Offest               |

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## LTE Band 25 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION         | MODE                         |
|-----------------------|-------------------|---------------------|-------------------|--------------------|------------------------------|
| EIRP                  | 26047 to 26683    | 26047, 26365, 26683 | 1.4MHz            | QPSK, 16QAM, 64QAM | 1 RB/ 0,5 RB Offest          |
|                       | 26055 to 26675    | 26055, 26365, 26675 | 3MHz              | QPSK, 16QAM, 64QAM | 1 RB/ 0,14 RB Offest         |
|                       | 26065 to 26665    | 26065, 26365, 26665 | 5MHz              | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest         |
|                       | 26090 to 26640    | 26090, 26365, 26640 | 10MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest         |
|                       | 26115 to 26615    | 26115, 26365, 26615 | 15MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,74 RB Offest         |
|                       | 26140 to 26590    | 26140, 26365, 26590 | 20MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,99 RB Offest         |
| FREQUENCY STA-BILITY  | 18650 to 19150    | 18900               | 10MHz             | QPSK,              | Full RB                      |
| OCCUPIED BAND-WIDTH   | 26047 to 26683    | 26047, 26365, 26683 | 1.4MHz            | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 26055 to 26675    | 26055, 26365, 26675 | 3MHz              | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 26065 to 26665    | 26065, 26365, 26665 | 5MHz              | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 26090 to 26640    | 26090, 26365, 26640 | 10MHz             | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 26115 to 26615    | 26115, 26365, 26615 | 15MHz             | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 26140 to 26590    | 26140, 26365, 26590 | 20MHz             | QPSK, 16QAM, 64QAM | Full RB                      |
| PEAK TO AVERAGE RATIO | 26047 to 26683    | 26047, 26365, 26683 | 1.4MHz            | 16QAM              | Full RB                      |
|                       | 26055 to 26675    | 26055, 26365, 26675 | 3MHz              | 16QAM              | Full RB                      |
|                       | 26065 to 26665    | 26065, 26365, 26665 | 5MHz              | 16QAM              | Full RB                      |
|                       | 26090 to 26640    | 26090, 26365, 26640 | 10MHz             | 16QAM              | Full RB                      |
|                       | 26115 to 26615    | 26115, 26365, 26615 | 15MHz             | 16QAM              | Full RB                      |
|                       | 26140 to 26590    | 26140, 26365, 26590 | 20MHz             | 16QAM              | Full RB                      |
| BAND EDGE             | 26047 to 26683    | 26047, 26683        | 1.4MHz            | QPSK,              | 1 RB/ 0,5 RB Offes Full RB   |
|                       | 26055 to 26675    | 26055, 26675        | 3MHz              | QPSK,              | 1 RB/ 0,14 RB Offest Full RB |
|                       | 26065 to 26665    | 26065, 26665        | 5MHz              | QPSK,              | 1 RB/ 0,24 RB Offest Full RB |
|                       | 26090 to 26640    | 26090, 26640        | 10MHz             | QPSK,              | 1 RB/ 0,49 RB Offest Full RB |
|                       | 26115 to 26615    | 26115, 26615        | 15MHz             | QPSK,              | 1 RB/ 0,74 RB Offest Full RB |
|                       | 26140 to 26590    | 26140, 26590        | 20MHz             | QPSK,              | 1 RB/ 0,99 RB Offest Full RB |
| CONDCUDED EMISSION    | 26047 to 26683    | 26047, 26365, 26683 | 1.4MHz            | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 26055 to 26675    | 26055, 26365, 26675 | 3MHz              | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 26065 to 26665    | 26065, 26365, 26665 | 5MHz              | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 26090 to 26640    | 26090, 26365, 26640 | 10MHz             | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 26115 to 26615    | 26115, 26365, 26615 | 15MHz             | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 26140 to 26590    | 26140, 26365, 26590 | 20MHz             | QPSK,              | 1 RB, 0 RB Offest            |
| RADIATED EMIS-SION    | 26090 to 26640    | 26090, 26365, 26640 | 10MHz             | QPSK,              | 1 RB, 0 RB Offest            |

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# LTE Band 26 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION                | MODE                            |
|-----------------------|-------------------|---------------------|-------------------|---------------------------|---------------------------------|
| ERP                   | 26797 to 27033    | 26797, 26915, 27033 | 1.4MHz            | QPSK, 16QAM, 64QAM, 64QAM | 1 RB/ 0,5 RB Offest             |
|                       | 26805 to 27025    | 26805, 26915, 27025 | 3MHz              | QPSK, 16QAM, 64QAM        | 1 RB/ 0,14 RB Offest            |
|                       | 26815 to 27015    | 26815, 26915, 27015 | 5MHz              | QPSK, 16QAM, 64QAM        | 1 RB/ 0,24 RB Offest            |
|                       | 26840 to 26990    | 26840, 26915, 26990 | 10MHz             | QPSK, 16QAM, 64QAM        | 1 RB/ 0,49 RB Offest            |
|                       | 26865 to 26965    | 26865, 26915, 26965 | 15MHz             | QPSK, 16QAM, 64QAM        | 1 RB/ 0,74 RB Offest            |
| FREQUENCY STABILITY   | 26865 to 26965    | 26915               | 15MHz             | QPSK,                     | Full RB                         |
| OCCUPIED BANDWIDTH    | 26797 to 27033    | 26797, 26915, 27033 | 1.4MHz            | QPSK, 16QAM, 64QAM        | Full RB                         |
|                       | 26805 to 27025    | 26805, 26915, 27025 | 3MHz              | QPSK, 16QAM, 64QAM        | Full RB                         |
|                       | 26815 to 27015    | 26815, 26915, 27015 | 5MHz              | QPSK, 16QAM, 64QAM        | Full RB                         |
|                       | 26840 to 26990    | 26840, 26915, 26990 | 10MHz             | QPSK, 16QAM, 64QAM        | Full RB                         |
|                       | 26865 to 26965    | 26865, 26915, 26965 | 15MHz             | QPSK, 16QAM, 64QAM        | Full RB                         |
| PEAK TO AVERAGE RATIO | 26797 to 27033    | 26797, 26915, 27033 | 1.4MHz            | 16QAM                     | Full RB                         |
|                       | 26805 to 27025    | 26805, 26915, 27025 | 3MHz              | 16QAM                     | Full RB                         |
|                       | 26815 to 27015    | 26815, 26915, 27015 | 5MHz              | 16QAM                     | Full RB                         |
|                       | 26840 to 26990    | 26840, 26915, 26990 | 10MHz             | 16QAM                     | Full RB                         |
|                       | 26865 to 26965    | 26865, 26915, 26965 | 15MHz             | 16QAM                     | Full RB                         |
| BAND EDGE             | 26797 to 27033    | 26797, 26915, 27033 | 1.4MHz            | QPSK,                     | 1 RB/ 0,5 RB Offes<br>Full RB   |
|                       | 26805 to 27025    | 26805, 26915, 27025 | 3MHz              | QPSK,                     | 1 RB/ 0,14 RB Offest<br>Full RB |
|                       | 26815 to 27015    | 26815, 26915, 27015 | 5MHz              | QPSK,                     | 1 RB/ 0,24 RB Offest<br>Full RB |
|                       | 26840 to 26990    | 26840, 26915, 26990 | 10MHz             | QPSK,                     | 1 RB/ 0,49 RB Offest<br>Full RB |
|                       | 26865 to 26965    | 26865, 26915, 26965 | 15MHz             | QPSK                      | 1 RB/ 0,74 RB Offest            |
| CONDCUDED EMISSION    | 26797 to 27033    | 26797, 26915, 27033 | 1.4MHz            | QPSK,                     | 1 RB, 0 RB Offest               |
|                       | 26805 to 27025    | 26805, 26915, 27025 | 3MHz              | QPSK,                     | 1 RB, 0 RB Offest               |
|                       | 26815 to 27015    | 26815, 26915, 27015 | 5MHz              | QPSK,                     | 1 RB, 0 RB Offest               |
|                       | 26840 to 26990    | 26840, 26915, 26990 | 10MHz             | QPSK,                     | 1 RB, 0 RB Offest               |
|                       | 26865 to 26965    | 26865, 26915, 26965 | 15MHz             | QPSK                      | 1 RB, 0 RB Offest               |
| RADIATED EMISSION     | 26805 to 27025    | 26805, 26915, 27025 | 1.4MHz            | QPSK,                     | 1 RB, 0 RB Offest               |

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# LTE Band 26 for 90S MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION         | MODE                            |
|-----------------------|-------------------|---------------------|-------------------|--------------------|---------------------------------|
| ERP                   | 26697 to 26783    | 26697, 26740, 26783 | 1.4MHz            | QPSK, 16QAM, 64QAM | 1 RB/ 0,5 RB Offest             |
|                       | 26705 to 26775    | 26705, 26740, 26775 | 3MHz              | QPSK, 16QAM, 64QAM | 1 RB/ 0,14 RB Offest            |
|                       | 26715 to 26765    | 26715, 26740, 26765 | 5MHz              | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest            |
|                       | 26740             | 26740               | 10MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest            |
| FREQUENCY STABILITY   | 26697 to 26783    | 26740               | 1.4MHz            | QPSK,              | Full RB                         |
| OCCUPIED BANDWIDTH    | 26697 to 26783    | 26697, 26740, 26783 | 1.4MHz            | QPSK, 16QAM, 64QAM | Full RB                         |
|                       | 26705 to 26775    | 26705, 26740, 26775 | 3MHz              | QPSK, 16QAM, 64QAM | Full RB                         |
|                       | 26715 to 26765    | 26715, 26740, 26765 | 5MHz              | QPSK, 16QAM, 64QAM | Full RB                         |
|                       | 26740             | 26740               | 10MHz             | QPSK, 16QAM, 64QAM | Full RB                         |
| PEAK TO AVERAGE RATIO | 26697 to 26783    | 26697, 26740, 26783 | 1.4MHz            | 16QAM              | Full RB                         |
|                       | 26705 to 26775    | 26705, 26740, 26775 | 3MHz              | 16QAM              | Full RB                         |
|                       | 26715 to 26765    | 26715, 26740, 26765 | 5MHz              | 16QAM              | Full RB                         |
|                       | 26740             | 26740               | 10MHz             | 16QAM              | Full RB                         |
| BAND EDGE             | 26697 to 26783    | 26697, 26740, 26783 | 1.4MHz            | QPSK,              | 1 RB/ 0,5 RB Offes<br>Full RB   |
|                       | 26705 to 26775    | 26705, 26740, 26775 | 3MHz              | QPSK,              | 1 RB/ 0,14 RB Offest<br>Full RB |
|                       | 26715 to 26765    | 26715, 26740, 26765 | 5MHz              | QPSK,              | 1 RB/ 0,24 RB Offest<br>Full RB |
|                       | 26740             | 26740               | 10MHz             | QPSK,              | 1 RB/ 0,49 RB Offest<br>Full RB |
| CONDCUDED EMISSION    | 26697 to 26783    | 26697, 26740, 26783 | 1.4MHz            | QPSK,              | 1 RB, 0 RB Offest               |
|                       | 26705 to 26775    | 26705, 26740, 26775 | 3MHz              | QPSK,              | 1 RB, 0 RB Offest               |
|                       | 26715 to 26765    | 26715, 26740, 26765 | 5MHz              | QPSK,              | 1 RB, 0 RB Offest               |
|                       | 26740             | 26740               | 10MHz             | QPSK,              | 1 RB, 0 RB Offest               |
| RADIATED EMISSION     | 26740             | 26740               | 10MHz             | QPSK,              | 1 RB, 0 RB Offest               |

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## LTE Band 30 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION         | MODE                            |
|-----------------------|-------------------|---------------------|-------------------|--------------------|---------------------------------|
| ERP                   | 27685 to 27735    | 27685, 27710, 27735 | 5MHz              | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest            |
|                       | 27710             | 27710               | 10MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest            |
| FREQUENCY STABILITY   | 27710             | 27710               | 10MHz             | QPSK,              | Full RB                         |
| OCCUPIED BANDWIDTH    | 27685 to 27735    | 27685, 27710, 27735 | 5MHz              | QPSK, 16QAM, 64QAM | Full RB                         |
|                       | 27710             | 27710               | 10MHz             | QPSK, 16QAM, 64QAM | Full RB                         |
| PEAK TO AVERAGE RATIO | 27685 to 27735    | 27685, 27710, 27735 | 5MHz              | 64QAM              | Full RB                         |
|                       | 27710             | 27710               | 10MHz             | 64QAM              | Full RB                         |
| BAND EDGE             | 27685 to 27735    | 27685, 27710, 27735 | 5MHz              | QPSK,              | 1 RB/ 0,24 RB Offest<br>Full RB |
|                       | 27710             | 27710               | 10MHz             | QPSK,              | 1 RB/ 0,49 RB Offest<br>Full RB |
| CONDCUDED EMISSION    | 27685 to 27735    | 27685, 27710, 27735 | 5MHz              | QPSK,              | 1 RB, 0 RB Offest               |
|                       | 27710             | 27710               | 10MHz             | QPSK,              | 1 RB, 0 RB Offest               |
| RADIATED EMIS- SION   | 27685 to 27735    | 27685, 27710, 27735 | 10MHz             | QPSK               | 1 RB/ 0 RB Offest               |

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# LTE Band 41 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL      | CHANNEL BANDWIDTH | MODULATION         | MODE                                     |
|-----------------------|-------------------|---------------------|-------------------|--------------------|------------------------------------------|
| EIRP                  | 39675 to 41565    | 39675, 40620, 41565 | 5MHz              | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest                     |
|                       | 39700 to 41540    | 39700, 40620, 41540 | 10MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest                     |
|                       | 39725 to 41515    | 39725, 40620, 41515 | 15MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,74 RB Offest                     |
|                       | 39750 to 41490    | 39750, 40620, 41490 | 20MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,99 RB Offest                     |
| FREQUENCY STABILITY   | 39700 to 41540    | 39700, 40620, 41540 | 10MHz             | QPSK,              | Full RB                                  |
| OCCUPIED BAND-WIDTH   | 39675 to 41565    | 39675, 40620, 41565 | 5MHz              | QPSK, 16QAM, 64QAM | Full RB                                  |
|                       | 39700 to 41540    | 39700, 40620, 41540 | 10MHz             | QPSK, 16QAM, 64QAM | Full RB                                  |
|                       | 39725 to 41515    | 39725, 40620, 41515 | 15MHz             | QPSK, 16QAM, 64QAM | Full RB                                  |
|                       | 39750 to 41490    | 39750, 40620, 41490 | 20MHz             | QPSK, 16QAM, 64QAM | Full RB                                  |
| PEAK TO AVERAGE RATIO | 39675 to 41565    | 39675, 40620, 41565 | 5MHz              | 64QAM              | Full RB                                  |
|                       | 39700 to 41540    | 39700, 40620, 41540 | 10MHz             | 64QAM              | Full RB                                  |
|                       | 39725 to 41515    | 39725, 40620, 41515 | 15MHz             | 64QAM              | Full RB                                  |
|                       | 39750 to 41490    | 39750, 40620, 41490 | 20MHz             | 64QAM              | Full RB                                  |
| BAND EDGE             | 39675 to 41565    | 39675, 41565        | 5MHz              | QPSK,              | 1 RB/ 0,24 RB Offest<br>Full RB          |
|                       | 39700 to 41540    | 39700, 41540        | 10MHz             | QPSK,              | 1 RB/ 0,49 RB Offest<br>Full RB          |
|                       | 39725 to 41515    | 39725, 41515        | 15MHz             | QPSK,              | 1 RB/ 0,74 RB Offest<br>Full RB          |
|                       | 39750 to 41490    | 39750, 41490        | 20MHz             | QPSK,              | 1 RB/ 0,99 RB Offest<br>Full RB          |
| CONDCUDED EMIS-SION   | 39675 to 41565    | 39675, 40620, 41565 | 5MHz              | QPSK,              | 1 RB, 0 RB Offest                        |
|                       | 39700 to 41540    | 39700, 40620, 41540 | 10MHz             | QPSK,              | 1 RB, 0 RB Offest                        |
|                       | 39725 to 41515    | 39725, 40620, 41515 | 15MHz             | QPSK,              | 1 RB, 0 RB Offest                        |
|                       | 39750 to 41490    | 39750, 40620, 41490 | 20MHz             | QPSK,              | 1 RB, 0 RB Offest                        |
| EMISSION MASK         | 39675 to 41565    | 39675, 40620, 41565 | 5MHz              | QPSK,              | 1 RB/ 0,24 RB Offest<br>25 RB/ 0 Offset  |
|                       | 39700 to 41540    | 39700, 40620, 41540 | 10MHz             | QPSK,              | 1 RB/ 0,49 RB Offest<br>50 RB/ 0 Offset  |
|                       | 39725 to 41515    | 39725, 40620, 41515 | 15MHz             | QPSK,              | 1 RB/ 0,74 RB Offest<br>75 RB/ 0 Offset  |
|                       | 39750 to 41490    | 39750, 40620, 41490 | 20MHz             | QPSK,              | 1 RB/ 0,99 RB Offest<br>100 RB/ 0 Offset |
| RADIATED EMISSION     | 39750 to 41490    | 39750, 40620, 41490 | 20MHz             | 64QAM              | 1 RB, 99 RB Offest                       |

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## LTE Band 66 MODE

| TEST ITEM             | AVAILABLE CHANNEL | TESTED CHANNEL         | CHANNEL BANDWIDTH | MODULATION         | MODE                         |
|-----------------------|-------------------|------------------------|-------------------|--------------------|------------------------------|
| EIRP                  | 131979 to 132665  | 131979, 132322, 132665 | 1.4MHz            | QPSK, 16QAM, 64QAM | 1 RB/ 0,5 RB Offest          |
|                       | 131987 to 132657  | 131987, 132322, 132657 | 3MHz              | QPSK, 16QAM, 64QAM | 1 RB/ 0,14 RB Offest         |
|                       | 131997 to 132647  | 131997, 132322, 132647 | 5MHz              | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest         |
|                       | 132022 to 132622  | 132022, 132322, 132622 | 10MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest         |
|                       | 132047 to 132597  | 132047, 132322, 132597 | 15MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,74 RB Offest         |
|                       | 132072 to 132572  | 132072, 132322, 132572 | 20MHz             | QPSK, 16QAM, 64QAM | 1 RB/ 0,99 RB Offest         |
| FREQUENCY STABILITY   | 18650 to 19150    | 18900                  | 10MHz             | QPSK,              | Full RB                      |
| OCCUPIED BANDWIDTH    | 131979 to 132665  | 131979, 132322, 132665 | 1.4MHz            | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 131987 to 132657  | 131987, 132322, 132657 | 3MHz              | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 131997 to 132647  | 131997, 132322, 132647 | 5MHz              | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 132022 to 132622  | 132022, 132322, 132622 | 10MHz             | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 132047 to 132597  | 132047, 132322, 132597 | 15MHz             | QPSK, 16QAM, 64QAM | Full RB                      |
|                       | 132072 to 132572  | 132072, 132322, 132572 | 20MHz             | QPSK, 16QAM, 64QAM | Full RB                      |
| PEAK TO AVERAGE RATIO | 131979 to 132665  | 131979, 132322, 132665 | 1.4MHz            | 64QAM              | Full RB                      |
|                       | 131987 to 132657  | 131987, 132322, 132657 | 3MHz              | 64QAM              | Full RB                      |
|                       | 131997 to 132647  | 131997, 132322, 132647 | 5MHz              | 64QAM              | Full RB                      |
|                       | 132022 to 132622  | 132022, 132322, 132622 | 10MHz             | 64QAM              | Full RB                      |
|                       | 132047 to 132597  | 132047, 132322, 132597 | 15MHz             | 64QAM              | Full RB                      |
|                       | 132072 to 132572  | 132072, 132322, 132572 | 20MHz             | 64QAM              | Full RB                      |
| BAND EDGE             | 18607 to 19193    | 18607, 19193           | 1.4MHz            | QPSK,              | 1 RB/ 0,5 RB Offes Full RB   |
|                       | 18615 to 19185    | 18615, 19185           | 3MHz              | QPSK,              | 1 RB/ 0,14 RB Offest Full RB |
|                       | 18625 to 19175    | 18625, 19175           | 5MHz              | QPSK,              | 1 RB/ 0,24 RB Offest Full RB |
|                       | 18650 to 19150    | 18650, 19150           | 10MHz             | QPSK,              | 1 RB/ 0,49 RB Offest Full RB |
|                       | 18675 to 19125    | 18675, 19125           | 15MHz             | QPSK,              | 1 RB/ 0,74 RB Offest Full RB |
|                       | 18700 to 19100    | 18700, 19100           | 20MHz             | QPSK,              | 1 RB/ 0,99 RB Offest Full RB |
| CONDCUDED EMISSION    | 18607 to 19193    | 18607, 18900, 19193    | 1.4MHz            | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 18615 to 19185    | 18615, 18900, 19185    | 3MHz              | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 18625 to 19175    | 18625, 18900, 19175    | 5MHz              | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 18650 to 19150    | 18650, 18900, 19150    | 10MHz             | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 18675 to 19125    | 18675, 18900, 19125    | 15MHz             | QPSK,              | 1 RB, 0 RB Offest            |
|                       | 18700 to 19100    | 18700, 18900, 19100    | 20MHz             | QPSK,              | 1 RB, 0 RB Offest            |
| RADIATED EMISSION     | 18700 to 19100    | 18700, 18900, 19100    | 20MHz             | 64QAM              | 1 RB, 99 RB Offest           |

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## 5. MEASUREMENT UNCERTAINTY

| Test Items                                                  | Uncertainty                                                                |
|-------------------------------------------------------------|----------------------------------------------------------------------------|
| RF Power Output                                             | +/- 1.10 dB                                                                |
| ERP/ EIRP measurement                                       | Vertical Polarization = +/- 4.74dB<br>Horizontal Polarization = +/- 4.62dB |
| 99% Occupied Bandwidth                                      | +/- 5.19 Hz                                                                |
| Out of Band Emissions at Antenna<br>Terminals and Band Edge | +/- 0.70 dB                                                                |
| Peak to Average Ratio                                       | +/- 0.70 dB                                                                |
| Frequency Stability vs. Temperature                         | +/- 5.19 Hz                                                                |
| Frequency Stability vs. Voltage                             | +/- 5.19 Hz                                                                |
| Temperature                                                 | +/- 0.65 °C                                                                |
| Humidity                                                    | +/- 4.6 %                                                                  |
| DC / AC Power Source                                        | DC= +/- 0.13%, AC= +/- 0.2%                                                |

### Radiated Spurious Emission:

|                                                              |                            |
|--------------------------------------------------------------|----------------------------|
| Measurement uncertainty<br>(Polarization : <b>Vertical</b> ) | 9kHz – 30MHz: +/- 2.87 dB  |
|                                                              | 30MHz - 180MHz: +/- 3.37dB |
|                                                              | 180MHz -417MHz: +/- 3.19dB |
|                                                              | 0.417GHz-1GHz: +/- 3.19dB  |
|                                                              | 1GHz - 18GHz: +/- 4.04dB   |
|                                                              | 18GHz - 40GHz: +/- 4.04dB  |

|                                                                |                            |
|----------------------------------------------------------------|----------------------------|
| Measurement uncertainty<br>(Polarization : <b>Horizontal</b> ) | 9kHz – 30MHz: +/- 2.87 dB  |
|                                                                | 30MHz - 167MHz: +/- 4.22dB |
|                                                                | 167MHz -500MHz: +/- 3.44dB |
|                                                                | 0.5GHz-1GHz: +/- 3.39dB    |
|                                                                | 1GHz - 18GHz: +/- 4.08dB   |
|                                                                | 18GHz - 40GHz: +/- 4.08dB  |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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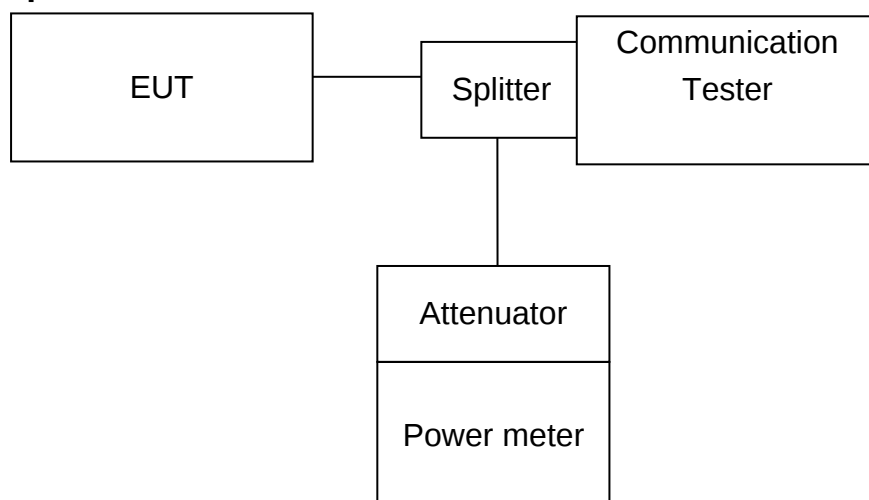
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## 6. RF CONDUCTED OUTPUT POWER MEASUREMENT

### 6.1. Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

### 6.2. Test Set-up



**Note:** Measurement setup for testing on Antenna connector

### 6.3. Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCD-MA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

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## 6.4. Measurement Equipment Used

| Conducted Emission (measured at antenna port) Test Site |           |                |               |            |            |
|---------------------------------------------------------|-----------|----------------|---------------|------------|------------|
| EQUIPMENT TYPE                                          | MFR       | MODEL NUMBER   | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Spectrum Analyzer                                       | KEYSIGHT  | N9010A         | MY51440113    | 06/20/2017 | 06/19/2018 |
| Communication Tester                                    | Anritsu   | MT8820C        | 6201107337    | 05/25/2017 | 05/24/2018 |
| Coaxial Cable 30cm                                      | WOKEN     | 00100A1F1A195C | RF01          | 12/12/2016 | 12/11/2017 |
| Temperature Chamber                                     | TERCHY    | MHK-120LK      | 1020582       | 06/13/2017 | 06/12/2018 |
| DC Block                                                | PASTERNAK | PE8210         | RF29          | 12/12/2016 | 12/11/2017 |
| Splitter                                                | RF-LAMBAD | RFLT2W1G18G    | RF35          | 12/12/2016 | 12/11/2017 |
| Attenuator                                              | WOKEN     | 218FS-10       | RF23          | 12/12/2016 | 12/11/2017 |
| DC Power Supply                                         | Agilent   | E3640A         | MY53140006    | 05/02/2017 | 05/01/2018 |

## 6.5. Measurement Result

### RF Conducted Output Power

#### WCDMA MODE:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

#### Results:

| EUT Mode      | Freq. (MHz) | CH   | Avg. Power (dBm) |
|---------------|-------------|------|------------------|
| WCDMA Band II | 1852.4      | 9262 | 23.24            |
|               | 1880.0      | 9400 | 23.71            |
|               | 1907.6      | 9538 | 23.06            |
| WCDMA Band IV | 1712.4      | 1312 | 22.26            |
|               | 1732.6      | 1413 | 22.83            |
|               | 1752.6      | 1513 | 23.69            |
| WCDMA Band V  | 826.4       | 4132 | 23.82            |
|               | 836.6       | 4183 | 23.7             |
|               | 846.6       | 4233 | 24.15            |

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## LTE Result:

| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|-----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                         | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                     |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                     |            |              | CH<br>(Low)<br>18607  | CH<br>(Mid)<br>18900 | CH<br>(High)<br>19193 | CH<br>(Low)<br>18607 | CH<br>(Mid)<br>18900 | CH<br>(High)<br>19193 | CH<br>(Low)<br>18607 | CH<br>(Mid)<br>18900 | CH<br>(High)<br>19193 |
| 1.4                                                 | 1          | 0            | 23.20                 | 23.16                | 23.61                 | 22.43                | 22.37                | 22.78                 | 22.30                | 22.16                | 22.70                 |
|                                                     | 1          | 5            | 23.09                 | 23.16                | 23.59                 | 22.64                | 22.48                | <b>23.14</b>          | 22.28                | 22.49                | <b>22.94</b>          |
|                                                     | 3          | 2            | 23.30                 | 23.26                | <b>23.70</b>          | 22.36                | 22.26                | 22.81                 | 22.28                | 22.16                | 22.71                 |
|                                                     | 6          | 0            | 22.23                 | 22.19                | 22.64                 | 21.48                | 21.27                | 21.73                 | 21.28                | 21.09                | 21.60                 |

| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|-----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                         | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                     |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                     |            |              | CH<br>(Low)<br>18615  | CH<br>(Mid)<br>18900 | CH<br>(High)<br>19185 | CH<br>(Low)<br>18615 | CH<br>(Mid)<br>18900 | CH<br>(High)<br>19185 | CH<br>(Low)<br>18615 | CH<br>(Mid)<br>18900 | CH<br>(High)<br>19185 |
| 3                                                   | 1          | 0            | 23.46                 | 23.47                | 23.04                 | 22.69                | <b>22.75</b>         | 22.37                 | 22.66                | 22.64                | 22.39                 |
|                                                     | 1          | 14           | 23.43                 | 23.38                | <b>23.84</b>          | 22.63                | 22.65                | 22.12                 | 21.59                | <b>22.76</b>         | 22.02                 |
|                                                     | 8          | 4            | 22.50                 | 22.49                | 22.03                 | 21.57                | 21.56                | 21.02                 | 21.59                | 21.36                | 21.02                 |
|                                                     | 15         | 0            | 22.49                 | 22.43                | 22.04                 | 21.55                | 21.49                | 21.04                 | 21.45                | 21.41                | 21.01                 |

| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|-----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                         | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                     |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                     |            |              | CH<br>(Low)<br>18625  | CH<br>(Mid)<br>18900 | CH<br>(High)<br>19175 | CH<br>(Low)<br>18625 | CH<br>(Mid)<br>18900 | CH<br>(High)<br>19175 | CH<br>(Low)<br>18625 | CH<br>(Mid)<br>18900 | CH<br>(High)<br>19175 |
| 5                                                   | 1          | 0            | 23.51                 | 23.50                | 23.44                 | <b>22.78</b>         | 22.77                | 22.74                 | 22.65                | 22.56                | 22.66                 |
|                                                     | 1          | 24           | 23.47                 | 23.43                | <b>23.80</b>          | 22.75                | 22.69                | 22.15                 | 21.45                | <b>22.70</b>         | 22.15                 |
|                                                     | 12         | 6            | 22.53                 | 22.50                | 22.21                 | 21.53                | 21.52                | 21.30                 | 21.45                | 21.22                | 21.20                 |
|                                                     | 25         | 0            | 22.50                 | 22.47                | 22.12                 | 21.53                | 21.51                | 21.21                 | 21.33                | 21.33                | 21.08                 |

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| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|-----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                         | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                     |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                     |            |              | CH<br>(Low)<br>18650  | CH<br>(Mid)<br>18900 | CH<br>(High)<br>19150 | CH<br>(Low)<br>18650 | CH<br>(Mid)<br>18900 | CH<br>(High)<br>19150 | CH<br>(Low)<br>18650 | CH<br>(Mid)<br>18900 | CH<br>(High)<br>19150 |
| 10                                                  | 1          | 0            | <b>23.75</b>          | 23.74                | 23.73                 | <b>23.04</b>         | 23.03                | 22.94                 | <b>22.31</b>         | 22.22                | 22.26                 |
|                                                     | 1          | 49           | 23.74                 | 23.62                | 23.72                 | 22.99                | 22.88                | 22.21                 | 21.30                | 22.29                | 22.11                 |
|                                                     | 25         | 12           | 22.55                 | 22.51                | 22.71                 | 21.58                | 21.56                | 21.70                 | 21.30                | 21.06                | 21.40                 |
|                                                     | 50         | 0            | 22.54                 | 22.54                | 22.45                 | 21.56                | 21.56                | 21.61                 | 21.16                | 21.18                | 21.28                 |

| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|-----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                         | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                     |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                     |            |              | CH<br>(Low)<br>18675  | CH<br>(Mid)<br>18900 | CH<br>(High)<br>19125 | CH<br>(Low)<br>18675 | CH<br>(Mid)<br>18900 | CH<br>(High)<br>19125 | CH<br>(Low)<br>18675 | CH<br>(Mid)<br>18900 | CH<br>(High)<br>19125 |
| 15                                                  | 1          | 0            | 23.60                 | 23.62                | <b>23.80</b>          | 22.88                | 22.88                | <b>23.05</b>          | 22.15                | 22.07                | <b>22.37</b>          |
|                                                     | 1          | 74           | 23.51                 | 23.39                | 23.66                 | 22.80                | 22.65                | 22.22                 | 21.29                | 22.06                | 22.12                 |
|                                                     | 36         | 19           | 22.56                 | 22.55                | 22.74                 | 21.57                | 21.59                | 21.75                 | 21.29                | 21.09                | 21.05                 |
|                                                     | 75         | 0            | 22.53                 | 22.54                | 22.63                 | 21.56                | 21.54                | 21.75                 | 21.16                | 21.16                | 21.02                 |

| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|-----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                         | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                     |            |              | (dBm)                 |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                     |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                     |            |              | CH<br>(Low)<br>18700  | CH<br>(Mid)<br>18900 | CH<br>(High)<br>19100 | CH<br>(Low)<br>18700 | CH<br>(Mid)<br>18900 | CH<br>(High)<br>19100 | CH<br>(Low)<br>18700 | CH<br>(Mid)<br>18900 | CH<br>(High)<br>19100 |
| 20                                                  | 1          | 0            | <b>23.82</b>          | 23.72                | 23.79                 | <b>23.08</b>         | 23.00                | 23.00                 | <b>22.35</b>         | 22.19                | 22.32                 |
|                                                     | 1          | 99           | 23.63                 | 23.56                | 23.81                 | 22.94                | 22.81                | 22.26                 | 21.02                | 22.22                | 22.06                 |
|                                                     | 50         | 25           | 22.62                 | 22.57                | 22.76                 | 21.70                | 21.59                | 21.77                 | 21.02                | 21.09                | 21.07                 |
|                                                     | 100        | 0            | 22.56                 | 22.58                | 22.79                 | 21.59                | 21.55                | 21.79                 | 21.19                | 21.17                | 21.06                 |

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| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|-----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                         | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                     |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                     |            |              | CH<br>(Low)<br>19957  | CH<br>(Mid)<br>20175 | CH<br>(High)<br>20393 | CH<br>(Low)<br>19957 | CH<br>(Mid)<br>20175 | CH<br>(High)<br>20393 | CH<br>(Low)<br>19957 | CH<br>(Mid)<br>20175 | CH<br>(High)<br>20393 |
|                                                     |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
| 1.4                                                 | 1          | 0            | 21.80                 | 23.61                | 23.62                 | 21.12                | 22.64                | 22.89                 | 22.39                | 22.13                | 22.21                 |
|                                                     | 1          | 5            | 21.88                 | 23.35                | <b>23.79</b>          | 21.30                | 22.63                | <b>23.28</b>          | 22.31                | 22.04                | <b>22.48</b>          |
|                                                     | 3          | 2            | 21.83                 | 23.47                | 23.76                 | 20.99                | 22.73                | 22.70                 | 22.31                | 22.13                | 22.00                 |
|                                                     | 6          | 0            | 20.73                 | 22.58                | 22.55                 | 20.03                | 21.73                | 21.78                 | 21.23                | 21.05                | 21.05                 |

| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|-----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                         | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                     |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                     |            |              | CH<br>(Low)<br>19965  | CH<br>(Mid)<br>20175 | CH<br>(High)<br>20385 | CH<br>(Low)<br>19965 | CH<br>(Mid)<br>20175 | CH<br>(High)<br>20385 | CH<br>(Low)<br>19965 | CH<br>(Mid)<br>20175 | CH<br>(High)<br>20385 |
|                                                     |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
| 3                                                   | 1          | 0            | 22.35                 | 23.98                | 23.23                 | 21.58                | <b>23.06</b>         | 22.68                 | 22.15                | <b>22.25</b>         | 22.00                 |
|                                                     | 1          | 14           | 22.73                 | 23.34                | <b>24.02</b>          | 21.81                | 22.67                | 22.85                 | 21.03                | 22.08                | 22.05                 |
|                                                     | 8          | 4            | 22.42                 | 23.05                | 23.69                 | 21.71                | 22.05                | 22.05                 | 21.03                | 21.15                | 21.35                 |
|                                                     | 15         | 0            | 22.37                 | 23.00                | 22.83                 | 21.58                | 22.03                | 21.88                 | 21.18                | 21.25                | 21.15                 |

| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|-----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                         | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                     |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                     |            |              | CH<br>(Low)<br>19975  | CH<br>(Mid)<br>20175 | CH<br>(High)<br>20375 | CH<br>(Low)<br>19975 | CH<br>(Mid)<br>20175 | CH<br>(High)<br>20375 | CH<br>(Low)<br>19975 | CH<br>(Mid)<br>20175 | CH<br>(High)<br>20375 |
|                                                     |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
| 5                                                   | 1          | 0            | 21.98                 | <b>23.86</b>         | 23.06                 | 21.41                | 22.46                | 22.51                 | <b>22.68</b>         | 22.65                | 22.13                 |
|                                                     | 1          | 24           | 22.84                 | 22.88                | 23.76                 | 22.13                | 22.63                | <b>23.05</b>          | 21.02                | 22.04                | 22.25                 |
|                                                     | 12         | 6            | 22.45                 | 22.82                | 22.77                 | 21.70                | 21.84                | 21.79                 | 21.02                | 21.94                | 21.09                 |
|                                                     | 25         | 0            | 22.43                 | 22.80                | 22.68                 | 21.71                | 21.89                | 21.72                 | 21.11                | 21.11                | 21.09                 |

| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|-----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                         | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                     |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                     |            |              | CH<br>(Low)<br>20000  | CH<br>(Mid)<br>20175 | CH<br>(High)<br>20350 | CH<br>(Low)<br>20000 | CH<br>(Mid)<br>20175 | CH<br>(High)<br>20350 | CH<br>(Low)<br>20000 | CH<br>(Mid)<br>20175 | CH<br>(High)<br>20350 |
|                                                     |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
| 10                                                  | 1          | 0            | 22.11                 | <b>24.20</b>         | 22.26                 | 21.21                | 22.88                | 21.21                 | 22.48                | 22.07                | <b>22.53</b>          |
|                                                     | 1          | 49           | 23.43                 | 22.37                | 23.52                 | <b>23.21</b>         | 21.86                | 23.02                 | 21.23                | 22.27                | 22.22                 |
|                                                     | 25         | 12           | 22.89                 | 22.82                | 22.81                 | 21.91                | 21.81                | 21.88                 | 21.23                | 21.10                | 21.18                 |
|                                                     | 50         | 0            | 22.89                 | 22.79                | 22.75                 | 21.92                | 21.87                | 21.84                 | 21.12                | 21.09                | 21.11                 |

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| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|-----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                         | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                     |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                     |            |              | CH<br>(Low)<br>20025  | CH<br>(Mid)<br>20175 | CH<br>(High)<br>20325 | CH<br>(Low)<br>20025 | CH<br>(Mid)<br>20175 | CH<br>(High)<br>20325 | CH<br>(Low)<br>20025 | CH<br>(Mid)<br>20175 | CH<br>(High)<br>20325 |
|                                                     |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
| 15                                                  | 1          | 0            | 22.16                 | <b>23.76</b>         | 22.03                 | 21.44                | <b>23.23</b>         | 21.31                 | 22.11                | <b>22.42</b>         | 22.03                 |
|                                                     | 1          | 74           | 23.68                 | 22.12                | 23.59                 | 22.63                | 21.56                | 22.71                 | 21.29                | 22.17                | 22.01                 |
|                                                     | 36         | 19           | 22.94                 | 22.86                | 22.63                 | 21.97                | 21.90                | 21.84                 | 21.29                | 21.00                | 21.14                 |
|                                                     | 75         | 0            | 22.83                 | 22.84                | 22.86                 | 22.05                | 21.91                | 21.75                 | 21.25                | 21.13                | 21.02                 |

| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz |            |              |                                |                      |                       |                      |                      |                       |                      |                      |                       |
|-----------------------------------------------------|------------|--------------|--------------------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                         | RB<br>Size | RB<br>Offset | Conducted power (dBm)<br>(dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                     |            |              | QPSK                           |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                     |            |              | CH<br>(Low)<br>20050           | CH<br>(Mid)<br>20175 | CH<br>(High)<br>20300 | CH<br>(Low)<br>20050 | CH<br>(Mid)<br>20175 | CH<br>(High)<br>20300 | CH<br>(Low)<br>20050 | CH<br>(Mid)<br>20175 | CH<br>(High)<br>20300 |
|                                                     |            |              |                                |                      |                       |                      |                      |                       |                      |                      |                       |
| 20                                                  | 1          | 0            | 22.26                          | <b>23.91</b>         | 22.67                 | 21.62                | <b>23.38</b>         | 21.99                 | 22.19                | <b>22.57</b>         | 22.31                 |
|                                                     | 1          | 99           | 23.88                          | 22.01                | 23.73                 | 22.57                | 21.67                | 22.80                 | 21.24                | 22.08                | 22.00                 |
|                                                     | 50         | 25           | 22.92                          | 22.90                | 22.46                 | 21.92                | 21.97                | 21.71                 | 21.24                | 21.07                | 21.01                 |
|                                                     | 100        | 0            | 23.11                          | 23.02                | 22.74                 | 23.00                | 21.98                | 21.92                 | 22.20                | 21.20                | 21.19                 |

| LTE Band 5_Uplink frequency band : 824 to 849 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|---------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                       | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                   |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                   |            |              | CH<br>(Low)<br>20407  | CH<br>(Mid)<br>20525 | CH<br>(High)<br>20643 | CH<br>(Low)<br>20407 | CH<br>(Mid)<br>20525 | CH<br>(High)<br>20643 | CH<br>(Low)<br>20407 | CH<br>(Mid)<br>20525 | CH<br>(High)<br>20643 |
|                                                   |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
| 1.4                                               | 1          | 0            | 23.00                 | 23.08                | 23.06                 | 22.26                | <b>22.35</b>         | 22.18                 | 22.29                | 22.30                | 22.26                 |
|                                                   | 1          | 5            | 23.01                 | 23.08                | 23.04                 | 22.31                | 22.32                | 22.20                 | 22.14                | <b>22.49</b>         | 22.16                 |
|                                                   | 3          | 2            | 23.09                 | <b>23.16</b>         | 23.05                 | 22.06                | 22.13                | 22.11                 | 22.14                | 22.19                | 22.17                 |
|                                                   | 6          | 0            | 22.03                 | 22.10                | 22.02                 | 21.04                | 21.11                | 21.12                 | 21.00                | 21.09                | 21.15                 |

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| LTE Band 5_Uplink frequency band : 824 to 849 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|---------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                       | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                   |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                   |            |              | CH<br>(Low)<br>20415  | CH<br>(Mid)<br>20525 | CH<br>(High)<br>20635 | CH<br>(Low)<br>20415 | CH<br>(Mid)<br>20525 | CH<br>(High)<br>20635 | CH<br>(Low)<br>20415 | CH<br>(Mid)<br>20525 | CH<br>(High)<br>20635 |
|                                                   |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
| 3                                                 | 1          | 0            | 23.04                 | 23.29                | <b>23.32</b>          | 22.26                | <b>22.49</b>         | 22.42                 | 22.24                | 22.39                | 22.45                 |
|                                                   | 1          | 14           | 23.18                 | 23.20                | 23.02                 | 22.35                | <b>22.49</b>         | 22.40                 | 21.11                | <b>22.61</b>         | 22.31                 |
|                                                   | 8          | 4            | 22.10                 | 22.16                | 22.28                 | 21.08                | 21.25                | 21.17                 | 21.11                | 21.06                | 21.18                 |
|                                                   | 15         | 0            | 22.04                 | 22.21                | 22.19                 | 21.10                | 21.08                | 21.18                 | 21.01                | 21.01                | 21.16                 |

| LTE Band 5_Uplink frequency band : 824 to 849 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|---------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                       | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                   |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                   |            |              | CH<br>(Low)<br>20425  | CH<br>(Mid)<br>20525 | CH<br>(High)<br>20625 | CH<br>(Low)<br>20425 | CH<br>(Mid)<br>20525 | CH<br>(High)<br>20625 | CH<br>(Low)<br>20425 | CH<br>(Mid)<br>20525 | CH<br>(High)<br>20625 |
|                                                   |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
| 5                                                 | 1          | 0            | 23.17                 | 23.30                | 23.35                 | 22.39                | 22.56                | <b>22.68</b>          | 22.36                | 22.45                | <b>22.70</b>          |
|                                                   | 1          | 24           | 23.18                 | 23.18                | <b>23.37</b>          | 22.43                | 22.54                | 22.60                 | 21.31                | 22.65                | 22.50                 |
|                                                   | 12         | 6            | 22.30                 | 22.16                | 22.35                 | 21.29                | 21.36                | 21.40                 | 21.31                | 21.16                | 21.40                 |
|                                                   | 25         | 0            | 22.24                 | 22.33                | 22.32                 | 21.28                | 21.30                | 21.35                 | 21.18                | 21.22                | 21.32                 |

| LTE Band 5_Uplink frequency band : 824 to 849 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|---------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                       | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                   |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                   |            |              | CH<br>(Low)<br>20450  | CH<br>(Mid)<br>20525 | CH<br>(High)<br>20600 | CH<br>(Low)<br>20450 | CH<br>(Mid)<br>20525 | CH<br>(High)<br>20600 | CH<br>(Low)<br>20450 | CH<br>(Mid)<br>20525 | CH<br>(High)<br>20600 |
|                                                   |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
| 10                                                | 1          | 0            | 23.22                 | 23.39                | <b>23.40</b>          | 22.46                | 22.72                | <b>22.75</b>          | 22.33                | <b>22.51</b>         | 22.07                 |
|                                                   | 1          | 49           | <b>23.40</b>          | 23.38                | 23.31                 | 22.66                | 22.65                | 22.58                 | 21.25                | 22.06                | 22.38                 |
|                                                   | 25         | 12           | 22.29                 | 22.52                | 22.59                 | 21.33                | 21.52                | 21.51                 | 21.25                | 21.22                | 21.41                 |
|                                                   | 50         | 0            | 22.26                 | 22.44                | 22.52                 | 21.27                | 21.49                | 21.52                 | 21.07                | 21.31                | 21.39                 |

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| LTE Band 12_Uplink frequency band : 699 to 716 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                        | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                    |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                    |            |              | CH<br>(Low)<br>23017  | CH<br>(Mid)<br>23095 | CH<br>(High)<br>23173 | CH<br>(Low)<br>23017 | CH<br>(Mid)<br>23095 | CH<br>(High)<br>23173 | CH<br>(Low)<br>23017 | CH<br>(Mid)<br>23095 | CH<br>(High)<br>23173 |
| 1.4                                                | 1          | 0            | 23.04                 | 23.01                | 23.02                 | 22.31                | 22.33                | 22.27                 | 22.24                | 22.18                | 22.25                 |
|                                                    | 1          | 5            | 23.04                 | 23.05                | 23.01                 | <b>22.35</b>         | 22.33                | 22.22                 | 22.15                | <b>22.40</b>         | 22.08                 |
|                                                    | 3          | 2            | <b>23.14</b>          | 23.12                | 23.12                 | 22.17                | 22.14                | 22.11                 | 22.15                | 22.09                | 22.07                 |
|                                                    | 6          | 0            | 22.10                 | 22.14                | 22.03                 | 21.17                | 21.15                | 21.15                 | 21.03                | 21.03                | 21.08                 |

| LTE Band 12_Uplink frequency band : 699 to 716 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                        | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                    |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                    |            |              | CH<br>(Low)<br>23025  | CH<br>(Mid)<br>23095 | CH<br>(High)<br>23165 | CH<br>(Low)<br>23025 | CH<br>(Mid)<br>23095 | CH<br>(High)<br>23165 | CH<br>(Low)<br>23025 | CH<br>(Mid)<br>23095 | CH<br>(High)<br>23165 |
| 3                                                  | 1          | 0            | 23.03                 | 23.03                | <b>23.04</b>          | 22.24                | 22.28                | 22.23                 | 22.23                | 22.19                | 22.27                 |
|                                                    | 1          | 14           | 23.01                 | 23.01                | 23.01                 | <b>22.30</b>         | <b>22.30</b>         | 22.22                 | 21.19                | <b>22.43</b>         | 22.14                 |
|                                                    | 8          | 4            | 22.09                 | 22.09                | 22.11                 | 21.15                | 21.18                | 21.15                 | 21.19                | 21.00                | 21.17                 |
|                                                    | 15         | 0            | 22.08                 | 22.08                | 22.06                 | 21.09                | 21.10                | 21.11                 | 21.01                | 21.04                | 21.10                 |

| LTE Band 12_Uplink frequency band : 699 to 716 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                        | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                    |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                    |            |              | CH<br>(Low)<br>23035  | CH<br>(Mid)<br>23095 | CH<br>(High)<br>23155 | CH<br>(Low)<br>23035 | CH<br>(Mid)<br>23095 | CH<br>(High)<br>23155 | CH<br>(Low)<br>23035 | CH<br>(Mid)<br>23095 | CH<br>(High)<br>23155 |
| 5                                                  | 1          | 0            | 23.08                 | 23.08                | 23.00                 | 22.33                | 22.37                | 22.26                 | 22.35                | 22.31                | 22.33                 |
|                                                    | 1          | 24           | <b>23.14</b>          | 23.08                | 23.06                 | <b>22.43</b>         | 22.34                | 22.38                 | 21.25                | <b>22.50</b>         | 22.33                 |
|                                                    | 12         | 6            | 22.12                 | 22.15                | 22.19                 | 21.18                | 21.15                | 21.18                 | 21.25                | 21.00                | 21.23                 |
|                                                    | 25         | 0            | 22.12                 | 22.13                | 22.19                 | 21.13                | 21.16                | 21.17                 | 21.08                | 21.13                | 21.19                 |

| LTE Band 12_Uplink frequency band : 699 to 716 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                        | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                    |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                    |            |              | CH<br>(Low)<br>23060  | CH<br>(Mid)<br>23095 | CH<br>(High)<br>23130 | CH<br>(Low)<br>23060 | CH<br>(Mid)<br>23095 | CH<br>(High)<br>23130 | CH<br>(Low)<br>23060 | CH<br>(Mid)<br>23095 | CH<br>(High)<br>23130 |
| 10                                                 | 1          | 0            | 23.03                 | 23.00                | 23.02                 | 22.31                | 22.28                | 22.35                 | 22.33                | 22.22                | 22.42                 |
|                                                    | 1          | 49           | 23.06                 | 23.07                | <b>23.09</b>          | <b>22.38</b>         | 22.36                | 22.33                 | 21.28                | <b>22.52</b>         | 22.28                 |
|                                                    | 25         | 12           | 22.22                 | 22.16                | 22.11                 | 21.21                | 21.15                | 21.14                 | 21.28                | 21.00                | 21.19                 |
|                                                    | 50         | 0            | 22.20                 | 22.16                | 22.09                 | 21.20                | 21.16                | 21.10                 | 21.15                | 21.13                | 21.12                 |

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| LTE Band 13_Uplink frequency band : 777 to 787 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                        | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                    |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                    |            |              | CH<br>(Low)<br>23205  | CH<br>(Mid)<br>23230 | CH<br>(High)<br>23255 | CH<br>(Low)<br>23205 | CH<br>(Mid)<br>23230 | CH<br>(High)<br>23255 | CH<br>(Low)<br>23205 | CH<br>(Mid)<br>23230 | CH<br>(High)<br>23255 |
| 5                                                  | 1          | 0            | 23.41                 | <b>23.44</b>         | 23.42                 | 22.63                | <b>22.79</b>         | 22.74                 | 22.32                | 22.40                | <b>22.48</b>          |
|                                                    | 1          | 24           | 23.39                 | 23.35                | 23.34                 | 22.66                | 22.65                | 22.62                 | 21.18                | <b>22.48</b>         | 22.24                 |
|                                                    | 12         | 6            | 22.42                 | 22.48                | 22.41                 | 21.44                | 21.48                | 21.44                 | 21.18                | 21.00                | 21.16                 |
|                                                    | 25         | 0            | 22.36                 | 22.42                | 22.41                 | 21.38                | 21.45                | 21.40                 | 21.00                | 21.09                | 21.09                 |

| LTE Band 13_Uplink frequency band : 777 to 787 MHz |            |              |                       |  |  |                      |  |  |                      |  |  |
|----------------------------------------------------|------------|--------------|-----------------------|--|--|----------------------|--|--|----------------------|--|--|
| BW<br>(MHz)                                        | RB<br>Size | RB<br>Offset | Conducted power (dBm) |  |  |                      |  |  |                      |  |  |
|                                                    |            |              | QPSK                  |  |  | 16QAM                |  |  | 64QAM                |  |  |
|                                                    |            |              | CH<br>(Mid)<br>23230  |  |  | CH<br>(Mid)<br>23230 |  |  | CH<br>(Mid)<br>23230 |  |  |
| 10                                                 | 1          | 0            | <b>23.49</b>          |  |  | <b>22.61</b>         |  |  | 22.28                |  |  |
|                                                    | 1          | 49           | 23.31                 |  |  | <b>22.61</b>         |  |  | <b>22.33</b>         |  |  |
|                                                    | 25         | 12           | 22.47                 |  |  | 21.47                |  |  | 21.17                |  |  |
|                                                    | 50         | 0            | 22.46                 |  |  | 21.47                |  |  | 21.21                |  |  |

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| LTE Band 17_Uplink frequency band : 704 to 716 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                        | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                    |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                    |            |              | CH<br>(Low)<br>23755  | CH<br>(Mid)<br>23790 | CH<br>(High)<br>23825 | CH<br>(Low)<br>23755 | CH<br>(Mid)<br>23790 | CH<br>(High)<br>23825 | CH<br>(Low)<br>23755 | CH<br>(Mid)<br>23790 | CH<br>(High)<br>23825 |
| 5                                                  | 1          | 0            | 23.68                 | 23.65                | 23.43                 | 22.66                | 22.54                | 23.08                 | 22.15                | 22.05                | <b>22.40</b>          |
|                                                    | 1          | 24           | 23.58                 | <b>23.72</b>         | 23.53                 | 22.98                | 22.70                | <b>23.10</b>          | 21.08                | 22.11                | 22.30                 |
|                                                    | 12         | 6            | 22.73                 | 22.66                | 22.74                 | 21.76                | 21.68                | 21.73                 | 21.08                | 21.00                | 21.03                 |
|                                                    | 25         | 0            | 22.71                 | 22.64                | 22.72                 | 21.76                | 21.69                | 21.67                 | 21.18                | 21.13                | 21.16                 |

| LTE Band 17_Uplink frequency band : 704 to 716 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                        | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                    |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                    |            |              | CH<br>(Low)<br>23780  | CH<br>(Mid)<br>23790 | CH<br>(High)<br>23800 | CH<br>(Low)<br>23780 | CH<br>(Mid)<br>23790 | CH<br>(High)<br>23800 | CH<br>(Low)<br>23780 | CH<br>(Mid)<br>23790 | CH<br>(High)<br>23800 |
| 10                                                 | 1          | 0            | 23.68                 | 23.65                | <b>23.80</b>          | <b>23.21</b>         | 23.05                | 23.18                 | 22.48                | 22.24                | <b>22.50</b>          |
|                                                    | 1          | 49           | 23.78                 | 23.67                | 23.75                 | 22.75                | 22.48                | 22.88                 | 21.02                | 22.09                | 22.08                 |
|                                                    | 25         | 12           | 22.73                 | 22.73                | 22.72                 | 21.70                | 21.76                | 21.72                 | 21.02                | 21.06                | 21.02                 |
|                                                    | 50         | 0            | 22.67                 | 22.68                | 22.64                 | 21.67                | 21.62                | 21.76                 | 21.07                | 21.04                | 21.03                 |

| LTE Band 25_Uplink frequency band : 1850 to 1915 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|------------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                          | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                      |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                      |            |              | CH<br>(Low)<br>26047  | CH<br>(Mid)<br>26365 | CH<br>(High)<br>26683 | CH<br>(Low)<br>26047 | CH<br>(Mid)<br>26365 | CH<br>(High)<br>26683 | CH<br>(Low)<br>26047 | CH<br>(Mid)<br>26365 | CH<br>(High)<br>26683 |
| 1.4                                                  | 1          | 0            | 23.39                 | 23.71                | 23.49                 | 22.14                | 22.67                | 22.70                 | <b>22.66</b>         | 22.43                | 22.02                 |
|                                                      | 1          | 5            | 23.32                 | 23.71                | 23.24                 | 22.50                | 22.62                | <b>22.83</b>          | 22.14                | 22.03                | 22.03                 |
|                                                      | 3          | 2            | 23.38                 | <b>23.89</b>         | 23.49                 | 22.25                | 22.81                | 22.57                 | 22.14                | 22.48                | 22.44                 |
|                                                      | 6          | 0            | 22.26                 | 22.83                | 22.56                 | 21.33                | 21.83                | 21.83                 | 21.10                | 21.05                | 21.10                 |

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| LTE Band 25_Uplink frequency band : 1850 to 1915 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|------------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                          | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                      |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                      |            |              | CH<br>(Low)<br>26055  | CH<br>(Mid)<br>26365 | CH<br>(High)<br>26675 | CH<br>(Low)<br>26055 | CH<br>(Mid)<br>26365 | CH<br>(High)<br>26675 | CH<br>(Low)<br>26055 | CH<br>(Mid)<br>26365 | CH<br>(High)<br>26675 |
|                                                      |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
| 3                                                    | 1          | 0            | 23.32                 | <b>23.67</b>         | 23.50                 | <b>22.90</b>         | 22.74                | 22.76                 | 22.17                | <b>22.40</b>         | 22.08                 |
|                                                      | 1          | 14           | 23.33                 | 23.57                | 23.24                 | 22.42                | 22.52                | 22.73                 | 21.20                | <b>22.40</b>         | <b>22.40</b>          |
|                                                      | 8          | 4            | 22.36                 | 22.61                | 22.69                 | 21.41                | 21.57                | 21.80                 | 21.20                | 21.14                | 21.10                 |
|                                                      | 15         | 0            | 22.31                 | 22.62                | 22.63                 | 21.36                | 21.59                | 21.75                 | 21.03                | 21.28                | 21.02                 |

| LTE Band 25_Uplink frequency band : 1850 to 1915 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|------------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                          | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                      |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                      |            |              | CH<br>(Low)<br>26065  | CH<br>(Mid)<br>26365 | CH<br>(High)<br>26665 | CH<br>(Low)<br>26065 | CH<br>(Mid)<br>26365 | CH<br>(High)<br>26665 | CH<br>(Low)<br>26065 | CH<br>(Mid)<br>26365 | CH<br>(High)<br>26665 |
|                                                      |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
| 5                                                    | 1          | 0            | 23.31                 | <b>23.65</b>         | 23.24                 | 22.61                | <b>23.17</b>         | 22.60                 | 22.36                | 22.36                | 22.40                 |
|                                                      | 1          | 24           | 23.45                 | 23.46                | 23.41                 | 22.53                | 22.55                | 22.86                 | 21.17                | <b>22.44</b>         | 22.06                 |
|                                                      | 12         | 6            | 22.37                 | 22.62                | 22.63                 | 21.37                | 21.65                | 21.62                 | 21.17                | 21.23                | 21.40                 |
|                                                      | 25         | 0            | 22.38                 | 22.59                | 22.56                 | 21.49                | 21.60                | 21.59                 | 21.17                | 21.30                | 21.34                 |

| LTE Band 25_Uplink frequency band : 1850 to 1915 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|------------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                          | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                      |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                      |            |              | CH<br>(Low)<br>26090  | CH<br>(Mid)<br>26365 | CH<br>(High)<br>26640 | CH<br>(Low)<br>26090 | CH<br>(Mid)<br>26365 | CH<br>(High)<br>26640 | CH<br>(Low)<br>26090 | CH<br>(Mid)<br>26365 | CH<br>(High)<br>26640 |
|                                                      |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
| 10                                                   | 1          | 0            | 23.58                 | 23.79                | <b>23.82</b>          | 22.58                | 22.92                | <b>23.38</b>          | 22.29                | 22.11                | <b>22.70</b>          |
|                                                      | 1          | 49           | 23.59                 | 23.78                | 23.41                 | 23.10                | 23.16                | 22.57                 | 21.23                | 22.57                | 22.21                 |
|                                                      | 25         | 12           | 22.51                 | 22.61                | 22.34                 | 21.47                | 21.71                | 21.39                 | 21.23                | 21.25                | 21.13                 |
|                                                      | 50         | 0            | 22.50                 | 22.64                | 22.54                 | 21.56                | 21.66                | 21.59                 | 21.20                | 21.32                | 21.30                 |

| LTE Band 25_Uplink frequency band : 1850 to 1915 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|------------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                          | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                      |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                      |            |              | CH<br>(Low)<br>26115  | CH<br>(Mid)<br>26365 | CH<br>(High)<br>26615 | CH<br>(Low)<br>26115 | CH<br>(Mid)<br>26365 | CH<br>(High)<br>26615 | CH<br>(Low)<br>26115 | CH<br>(Mid)<br>26365 | CH<br>(High)<br>26615 |
|                                                      |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
| 15                                                   | 1          | 0            | 23.56                 | <b>23.72</b>         | 23.24                 | 23.04                | 23.20                | <b>23.55</b>          | 22.31                | 22.39                | <b>22.87</b>          |
|                                                      | 1          | 74           | 23.54                 | 23.60                | 23.31                 | 22.73                | 22.79                | 22.57                 | 21.60                | 22.20                | 22.53                 |
|                                                      | 36         | 19           | 22.54                 | 22.77                | 22.34                 | 21.52                | 21.74                | 21.33                 | 21.60                | 21.60                | 21.39                 |
|                                                      | 75         | 0            | 22.56                 | 22.69                | 22.39                 | 21.52                | 21.67                | 21.32                 | 21.48                | 21.65                | 21.35                 |

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| LTE Band 25_Uplink frequency band : 1850 to 1915 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|------------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                          | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                      |            |              | (dBm)                 |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                      |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                      |            |              | CH<br>(Low)<br>26140  | CH<br>(Mid)<br>26365 | CH<br>(High)<br>26590 | CH<br>(Low)<br>26140 | CH<br>(Mid)<br>26365 | CH<br>(High)<br>26590 | CH<br>(Low)<br>26140 | CH<br>(Mid)<br>26365 | CH<br>(High)<br>26590 |
| 20                                                   | 1          | 0            | 23.79                 | 23.97                | <b>23.99</b>          | 23.29                | 23.52                | <b>23.66</b>          | 22.56                | 22.71                | <b>22.98</b>          |
|                                                      | 1          | 99           | 23.47                 | 23.77                | 23.05                 | 22.52                | 23.15                | 22.19                 | 21.26                | 22.56                | 22.29                 |
|                                                      | 50         | 25           | 22.55                 | 22.61                | 23.02                 | 21.64                | 21.65                | 21.99                 | 21.26                | 21.05                | 21.29                 |
|                                                      | 100        | 0            | 22.53                 | 22.69                | 23.23                 | 21.52                | 21.68                | 22.16                 | 21.02                | 21.20                | 21.43                 |

| LTE Band 26_Uplink frequency band : 824 to 849 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                        | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                    |            |              | (dBm)                 |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                    |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                    |            |              | CH<br>(Low)<br>26797  | CH<br>(Mid)<br>26915 | CH<br>(High)<br>27033 | CH<br>(Low)<br>26797 | CH<br>(Mid)<br>26915 | CH<br>(High)<br>27033 | CH<br>(Low)<br>26797 | CH<br>(Mid)<br>26915 | CH<br>(High)<br>27033 |
| 1.4                                                | 1          | 0            | 23.11                 | 23.19                | 23.28                 | 22.35                | <b>22.79</b>         | 22.34                 | 22.05                | 22.41                | 22.09                 |
|                                                    | 1          | 5            | 23.05                 | 23.26                | 23.18                 | 22.28                | 22.54                | 22.36                 | 22.38                | 22.38                | <b>22.42</b>          |
|                                                    | 3          | 2            | 23.12                 | <b>23.33</b>         | 23.27                 | 22.20                | 22.28                | 22.24                 | 22.38                | 22.24                | 22.40                 |
|                                                    | 6          | 0            | 22.06                 | 22.26                | 22.31                 | 21.37                | 21.37                | 21.30                 | 21.00                | 21.02                | 21.00                 |

| LTE Band 26_Uplink frequency band : 824 to 849 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                        | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                    |            |              | (dBm)                 |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                    |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                    |            |              | CH<br>(Low)<br>26805  | CH<br>(Mid)<br>26915 | CH<br>(High)<br>27025 | CH<br>(Low)<br>26805 | CH<br>(Mid)<br>26915 | CH<br>(High)<br>27025 | CH<br>(Low)<br>26805 | CH<br>(Mid)<br>26915 | CH<br>(High)<br>27025 |
| 3                                                  | 1          | 0            | 23.18                 | 23.29                | <b>23.46</b>          | 22.30                | 22.39                | 22.66                 | 22.19                | 22.20                | 22.60                 |
|                                                    | 1          | 14           | 23.26                 | 23.29                | 23.29                 | 22.65                | <b>22.71</b>         | 22.37                 | 21.32                | <b>22.74</b>         | 22.19                 |
|                                                    | 8          | 4            | 22.28                 | 22.43                | 22.35                 | 21.38                | 21.41                | 21.49                 | 21.32                | 21.13                | 21.41                 |
|                                                    | 15         | 0            | 22.19                 | 22.28                | 22.36                 | 21.28                | 21.46                | 21.37                 | 21.10                | 21.30                | 21.26                 |

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| LTE Band 26_Uplink frequency band : 824 to 849 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                        | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                    |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                    |            |              | CH<br>(Low)<br>26815  | CH<br>(Mid)<br>26915 | CH<br>(High)<br>27015 | CH<br>(Low)<br>26815 | CH<br>(Mid)<br>26915 | CH<br>(High)<br>27015 | CH<br>(Low)<br>26815 | CH<br>(Mid)<br>26915 | CH<br>(High)<br>27015 |
| 5                                                  | 1          | 0            | 23.13                 | 23.37                | 23.38                 | 22.40                | 22.38                | 22.56                 | 22.21                | 22.11                | 22.42                 |
|                                                    | 1          | 24           | 23.32                 | <b>23.42</b>         | 23.18                 | 22.47                | <b>22.61</b>         | 22.39                 | 21.07                | <b>22.56</b>         | 22.13                 |
|                                                    | 12         | 6            | 22.26                 | 22.36                | 22.34                 | 21.21                | 21.49                | 21.47                 | 21.07                | 21.13                | 21.31                 |
|                                                    | 25         | 0            | 22.32                 | 22.36                | 22.39                 | 21.30                | 21.35                | 21.42                 | 21.04                | 21.11                | 21.23                 |

| LTE Band 26_Uplink frequency band : 824 to 849 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                        | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                    |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                    |            |              | CH<br>(Low)<br>26840  | CH<br>(Mid)<br>26915 | CH<br>(High)<br>26990 | CH<br>(Low)<br>26840 | CH<br>(Mid)<br>26915 | CH<br>(High)<br>26990 | CH<br>(Low)<br>26840 | CH<br>(Mid)<br>26915 | CH<br>(High)<br>26990 |
| 10                                                 | 1          | 0            | 23.23                 | <b>23.42</b>         | 23.19                 | 22.40                | 22.86                | 22.47                 | 22.14                | 22.05                | 22.26                 |
|                                                    | 1          | 49           | 23.41                 | <b>23.42</b>         | 23.26                 | <b>22.87</b>         | 22.58                | 22.47                 | 21.16                | <b>22.46</b>         | 22.14                 |
|                                                    | 25         | 12           | 22.31                 | 22.36                | 22.49                 | 21.37                | 21.43                | 21.42                 | 21.16                | 21.00                | 21.19                 |
|                                                    | 50         | 0            | 22.29                 | 22.40                | 22.42                 | 21.33                | 21.42                | 21.44                 | 21.00                | 21.11                | 21.18                 |

| LTE Band 26_Uplink frequency band : 824 to 849 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|----------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                        | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                    |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                    |            |              | CH<br>(Low)<br>26865  | CH<br>(Mid)<br>26915 | CH<br>(High)<br>26965 | CH<br>(Low)<br>26865 | CH<br>(Mid)<br>26915 | CH<br>(High)<br>26965 | CH<br>(Low)<br>26865 | CH<br>(Mid)<br>26915 | CH<br>(High)<br>26965 |
| 15                                                 | 1          | 0            | 23.14                 | <b>23.33</b>         | 23.32                 | 22.46                | 22.48                | 22.84                 | 22.22                | 22.16                | 22.16                 |
|                                                    | 1          | 74           | 23.32                 | 23.30                | 23.29                 | <b>22.86</b>         | 22.56                | 22.40                 | 21.26                | <b>22.46</b>         | 22.09                 |
|                                                    | 36         | 19           | 22.47                 | 22.37                | 22.44                 | 21.45                | 21.41                | 21.48                 | 21.26                | 21.00                | 21.27                 |
|                                                    | 75         | 0            | 22.37                 | 22.33                | 22.44                 | 21.31                | 21.41                | 21.53                 | 21.00                | 21.12                | 21.29                 |

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| LTE Band 26_Uplink frequency band : 814 to 824 MHz |            |              |                       |             |              |             |             |              |              |             |              |
|----------------------------------------------------|------------|--------------|-----------------------|-------------|--------------|-------------|-------------|--------------|--------------|-------------|--------------|
| BW<br>(MHz)                                        | RB<br>Size | RB<br>Offset | Conducted power (dBm) |             |              |             |             |              |              |             |              |
|                                                    |            |              | QPSK                  |             |              | 16QAM       |             |              | 64QAM        |             |              |
|                                                    |            |              | CH<br>(Low)           | CH<br>(Mid) | CH<br>(High) | CH<br>(Low) | CH<br>(Mid) | CH<br>(High) | CH<br>(Low)  | CH<br>(Mid) | CH<br>(High) |
|                                                    |            |              | 26697                 | 26740       | 26783        | 26697       | 26740       | 26783        | 26697        | 26740       | 26783        |
| 1.4                                                | 1          | 0            | 23.23                 | 23.16       | 23.21        | 22.21       | 22.29       | <b>22.41</b> | 22.04        | 22.12       | <b>22.25</b> |
|                                                    | 1          | 5            | 23.19                 | 23.11       | 23.10        | 22.36       | 22.16       | 22.18        | <b>22.25</b> | 22.06       | 22.11        |
|                                                    | 3          | 2            | <b>23.24</b>          | 23.01       | 23.16        | 22.14       | 22.03       | 22.13        | 22.03        | 21.95       | 22.03        |
|                                                    | 6          | 0            | 22.26                 | 22.26       | 22.12        | 21.20       | 21.24       | 21.24        | 21.02        | 21.16       | 21.14        |

| LTE Band 26_Uplink frequency band : 814 to 824 MHz |            |              |                       |             |              |             |              |              |             |              |              |
|----------------------------------------------------|------------|--------------|-----------------------|-------------|--------------|-------------|--------------|--------------|-------------|--------------|--------------|
| BW<br>(MHz)                                        | RB<br>Size | RB<br>Offset | Conducted power (dBm) |             |              |             |              |              |             |              |              |
|                                                    |            |              | QPSK                  |             |              | 16QAM       |              |              | 64QAM       |              |              |
|                                                    |            |              | CH<br>(Low)           | CH<br>(Mid) | CH<br>(High) | CH<br>(Low) | CH<br>(Mid)  | CH<br>(High) | CH<br>(Low) | CH<br>(Mid)  | CH<br>(High) |
|                                                    |            |              | 26705                 | 26740       | 26775        | 26705       | 26740        | 26775        | 26705       | 26740        | 26775        |
| 3                                                  | 1          | 0            | <b>23.39</b>          | 23.28       | 23.31        | 22.44       | <b>22.59</b> | 22.56        | 22.26       | <b>22.42</b> | 22.35        |
|                                                    | 1          | 14           | 23.27                 | 23.24       | 23.18        | 22.33       | 22.40        | 22.51        | 22.19       | 22.23        | 22.32        |
|                                                    | 8          | 4            | 22.27                 | 22.28       | 22.24        | 21.45       | 21.46        | 21.35        | 21.32       | 21.34        | 21.27        |
|                                                    | 15         | 0            | 22.28                 | 22.29       | 22.28        | 21.34       | 21.35        | 21.30        | 21.20       | 21.19        | 21.12        |

| LTE Band 26_Uplink frequency band : 814 to 824 MHz |            |              |                       |              |              |             |              |              |             |              |              |
|----------------------------------------------------|------------|--------------|-----------------------|--------------|--------------|-------------|--------------|--------------|-------------|--------------|--------------|
| BW<br>(MHz)                                        | RB<br>Size | RB<br>Offset | Conducted power (dBm) |              |              |             |              |              |             |              |              |
|                                                    |            |              | QPSK                  |              |              | 16QAM       |              |              | 64QAM       |              |              |
|                                                    |            |              | CH<br>(Low)           | CH<br>(Mid)  | CH<br>(High) | CH<br>(Low) | CH<br>(Mid)  | CH<br>(High) | CH<br>(Low) | CH<br>(Mid)  | CH<br>(High) |
|                                                    |            |              | 26715                 | 26740        | 26765        | 26715       | 26740        | 26765        | 26715       | 26740        | 26765        |
| 5                                                  | 1          | 0            | 23.31                 | <b>23.51</b> | 23.43        | 21.51       | <b>21.77</b> | 21.39        | 21.35       | <b>21.48</b> | 21.21        |
|                                                    | 1          | 24           | 23.36                 | 23.29        | 23.39        | 21.43       | 21.45        | 21.35        | 21.33       | 21.41        | 21.14        |
|                                                    | 12         | 6            | 22.35                 | 22.42        | 22.42        | 21.29       | 21.31        | 21.29        | 21.08       | 21.19        | 21.07        |
|                                                    | 25         | 0            | 22.30                 | 22.34        | 22.31        | 21.37       | 21.31        | 21.43        | 21.22       | 21.18        | 21.32        |

| LTE Band 26_Uplink frequency band : 814 to 824 MHz |            |              |                       |  |  |              |  |  |              |  |  |
|----------------------------------------------------|------------|--------------|-----------------------|--|--|--------------|--|--|--------------|--|--|
| BW<br>(MHz)                                        | RB<br>Size | RB<br>Offset | Conducted power (dBm) |  |  |              |  |  |              |  |  |
|                                                    |            |              | QPSK                  |  |  | 16QAM        |  |  | 64QAM        |  |  |
|                                                    |            |              | CH<br>(Mid)           |  |  | CH<br>(Mid)  |  |  | CH<br>(Mid)  |  |  |
|                                                    |            |              | 26740                 |  |  | 26740        |  |  | 26740        |  |  |
| 10                                                 | 1          | 0            | 23.29                 |  |  | <b>22.51</b> |  |  | 22.37        |  |  |
|                                                    | 1          | 49           | <b>23.35</b>          |  |  | <b>22.51</b> |  |  | <b>22.42</b> |  |  |
|                                                    | 25         | 12           | 22.39                 |  |  | 21.48        |  |  | 21.35        |  |  |
|                                                    | 50         | 0            | 22.34                 |  |  | 21.37        |  |  | 21.28        |  |  |

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| LTE Band 30_Uplink frequency band : 2305 to 2315 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|------------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                          | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                      |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                      |            |              | CH<br>(Low)<br>27685  | CH<br>(Mid)<br>27710 | CH<br>(High)<br>27735 | CH<br>(Low)<br>27685 | CH<br>(Mid)<br>27710 | CH<br>(High)<br>27735 | CH<br>(Low)<br>27685 | CH<br>(Mid)<br>27710 | CH<br>(High)<br>27735 |
| 5                                                    | 1          | 0            | 23.67                 | 23.62                | <b>23.71</b>          | 22.93                | <b>22.96</b>         | 22.49                 | 22.20                | 22.25                | 22.15                 |
|                                                      | 1          | 24           | 23.62                 | 23.55                | 23.35                 | 22.66                | 22.86                | 22.68                 | 21.09                | <b>22.27</b>         | 22.05                 |
|                                                      | 12         | 6            | 22.70                 | 22.70                | 22.47                 | 21.77                | 21.80                | 21.56                 | 21.09                | 21.07                | 21.03                 |
|                                                      | 25         | 0            | 22.71                 | 22.70                | 22.50                 | 21.77                | 21.69                | 21.56                 | 21.14                | 21.08                | 21.00                 |

| LTE Band 30_Uplink frequency band : 2305 to 2315 MHz |            |              |                       |  |  |                      |  |  |                      |  |  |
|------------------------------------------------------|------------|--------------|-----------------------|--|--|----------------------|--|--|----------------------|--|--|
| BW<br>(MHz)                                          | RB<br>Size | RB<br>Offset | Conducted power (dBm) |  |  |                      |  |  |                      |  |  |
|                                                      |            |              | QPSK                  |  |  | 16QAM                |  |  | 64QAM                |  |  |
|                                                      |            |              | CH<br>(Mid)<br>27710  |  |  | CH<br>(Mid)<br>27710 |  |  | CH<br>(Mid)<br>27710 |  |  |
| 10                                                   | 1          | 0            | <b>23.81</b>          |  |  | <b>22.98</b>         |  |  | <b>22.68</b>         |  |  |
|                                                      | 1          | 49           | 23.64                 |  |  | 22.65                |  |  | 22.34                |  |  |
|                                                      | 25         | 12           | 22.70                 |  |  | 21.83                |  |  | 21.13                |  |  |
|                                                      | 50         | 0            | 22.75                 |  |  | 21.74                |  |  | 21.08                |  |  |

| LTE Band 41_Uplink frequency band : 2496 to 2690 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|------------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                          | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                      |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                      |            |              | CH<br>(Low)<br>39675  | CH<br>(Mid)<br>40620 | CH<br>(High)<br>41565 | CH<br>(Low)<br>39675 | CH<br>(Mid)<br>40620 | CH<br>(High)<br>41565 | CH<br>(Low)<br>39675 | CH<br>(Mid)<br>40620 | CH<br>(High)<br>41565 |
| 5                                                    | 1          | 0            | <b>24.50</b>          | 24.49                | 23.54                 | <b>23.54</b>         | 23.47                | 22.43                 | 22.81                | 22.79                | 22.23                 |
|                                                      | 1          | 24           | 23.03                 | 23.01                | 24.38                 | 23.19                | 23.15                | 23.25                 | 22.46                | 22.47                | 22.55                 |
|                                                      | 12         | 6            | 23.51                 | 23.94                | 22.50                 | 22.22                | 22.90                | 22.97                 | 21.49                | <b>22.89</b>         | 22.16                 |
|                                                      | 25         | 0            | 23.68                 | 23.46                | 23.26                 | 22.09                | 22.03                | 22.04                 | 22.25                | 21.44                | 21.26                 |

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| LTE Band 41_Uplink frequency band : 2496 to 2690 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|------------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                          | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                      |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                      |            |              | CH<br>(Low)<br>39700  | CH<br>(Mid)<br>40620 | CH<br>(High)<br>41540 | CH<br>(Low)<br>39700 | CH<br>(Mid)<br>40620 | CH<br>(High)<br>41540 | CH<br>(Low)<br>39700 | CH<br>(Mid)<br>40620 | CH<br>(High)<br>41540 |
| 10                                                   | 1          | 0            | 24.63                 | <b>24.67</b>         | 23.68                 | <b>23.69</b>         | 23.46                | 22.58                 | <b>22.96</b>         | 22.78                | 22.33                 |
|                                                      | 1          | 49           | 23.09                 | 23.00                | 24.53                 | 23.27                | 23.15                | 23.46                 | 22.54                | 22.47                | 22.76                 |
|                                                      | 25         | 12           | 23.60                 | 23.75                | 22.65                 | 22.26                | 22.10                | 22.38                 | 21.53                | 22.49                | 22.53                 |
|                                                      | 50         | 0            | 23.96                 | 23.41                | 23.40                 | 23.00                | 22.23                | 22.34                 | 22.44                | 21.64                | 21.56                 |

| LTE Band 41_Uplink frequency band : 2496 to 2690 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|------------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                          | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                      |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                      |            |              | CH<br>(Low)<br>39725  | CH<br>(Mid)<br>40620 | CH<br>(High)<br>41515 | CH<br>(Low)<br>39725 | CH<br>(Mid)<br>40620 | CH<br>(High)<br>41515 | CH<br>(Low)<br>39725 | CH<br>(Mid)<br>40620 | CH<br>(High)<br>41515 |
| 15                                                   | 1          | 0            | <b>24.79</b>          | 24.56                | 23.65                 | <b>23.75</b>         | 23.54                | 22.55                 | <b>23.02</b>         | 22.86                | 22.24                 |
|                                                      | 1          | 74           | 23.00                 | 23.04                | 24.74                 | 23.41                | 23.20                | 23.51                 | 22.68                | 22.52                | 22.81                 |
|                                                      | 36         | 19           | 23.67                 | 23.78                | 22.67                 | 22.37                | 22.60                | 22.79                 | 21.64                | 22.93                | 22.49                 |
|                                                      | 75         | 0            | 23.83                 | 23.47                | 23.49                 | 22.66                | 22.18                | 22.27                 | 22.40                | 21.59                | 21.49                 |

| LTE Band 41_Uplink frequency band : 2496 to 2690 MHz |            |              |                       |                      |                       |                      |                      |                       |                      |                      |                       |
|------------------------------------------------------|------------|--------------|-----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------|-----------------------|
| BW<br>(MHz)                                          | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                      |                       |                      |                      |                       |                      |                      |                       |
|                                                      |            |              | QPSK                  |                      |                       | 16QAM                |                      |                       | 64QAM                |                      |                       |
|                                                      |            |              | CH<br>(Low)<br>39750  | CH<br>(Mid)<br>40620 | CH<br>(High)<br>41490 | CH<br>(Low)<br>39750 | CH<br>(Mid)<br>40620 | CH<br>(High)<br>41490 | CH<br>(Low)<br>39750 | CH<br>(Mid)<br>40620 | CH<br>(High)<br>41490 |
| 20                                                   | 1          | 0            | 24.95                 | 24.76                | <b>24.99</b>          | 23.47                | 23.66                | 22.71                 | <b>23.37</b>         | 22.98                | 22.01                 |
|                                                      | 1          | 99           | 23.01                 | 23.00                | 24.91                 | 22.93                | 23.35                | <b>23.76</b>          | 22.83                | 22.67                | 23.06                 |
|                                                      | 50         | 25           | 23.82                 | 23.75                | 22.89                 | 22.49                | 22.59                | 22.53                 | 21.76                | 22.81                | 22.88                 |
|                                                      | 100        | 0            | 23.74                 | 23.68                | 23.64                 | 22.69                | 22.50                | 22.62                 | 22.76                | 21.91                | 21.84                 |

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| LTE Band 66_Uplink frequency band : 1709 to 1780 MHz |            |              |                       |             |              |             |             |              |             |             |              |
|------------------------------------------------------|------------|--------------|-----------------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|--------------|
| BW<br>(MHz)                                          | RB<br>Size | RB<br>Offset | Conducted power (dBm) |             |              |             |             |              |             |             |              |
|                                                      |            |              | QPSK                  |             |              | 16QAM       |             |              | 64QAM       |             |              |
|                                                      |            |              | CH<br>(Low)           | CH<br>(Mid) | CH<br>(High) | CH<br>(Low) | CH<br>(Mid) | CH<br>(High) | CH<br>(Low) | CH<br>(Mid) | CH<br>(High) |
|                                                      |            |              | 131979                | 132322      | 132665       | 131979      | 132322      | 132665       | 131979      | 132322      | 132665       |
| 1.4                                                  | 1          | 0            | 23.34                 | 23.01       | 23.45        | 22.58       | 22.37       | 22.68        | 22.49       | 22.20       | 22.00        |
|                                                      | 1          | 5            | 23.40                 | 23.62       | 23.55        | 22.10       | 22.28       | <b>22.78</b> | 22.03       | 22.33       | <b>22.62</b> |
|                                                      | 3          | 2            | 23.49                 | 23.16       | <b>23.81</b> | 22.07       | 22.37       | 22.76        | 22.03       | 22.11       | 22.06        |
|                                                      | 6          | 0            | 22.61                 | 22.17       | 22.66        | 21.16       | 21.47       | 21.78        | 21.00       | 21.33       | 21.05        |

| LTE Band 66_Uplink frequency band : 1709 to 1780 MHz |            |              |                       |             |              |             |             |              |             |              |              |
|------------------------------------------------------|------------|--------------|-----------------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|--------------|
| BW<br>(MHz)                                          | RB<br>Size | RB<br>Offset | Conducted power (dBm) |             |              |             |             |              |             |              |              |
|                                                      |            |              | QPSK                  |             |              | 16QAM       |             |              | 64QAM       |              |              |
|                                                      |            |              | CH<br>(Low)           | CH<br>(Mid) | CH<br>(High) | CH<br>(Low) | CH<br>(Mid) | CH<br>(High) | CH<br>(Low) | CH<br>(Mid)  | CH<br>(High) |
|                                                      |            |              | 131987                | 132322      | 132657       | 131987      | 132322      | 132657       | 131987      | 132322       | 132657       |
| 3                                                    | 1          | 0            | 23.63                 | 23.71       | 23.25        | 22.02       | 22.62       | 22.41        | 22.09       | 22.61        | 22.53        |
|                                                      | 1          | 14           | 23.13                 | 23.10       | <b>23.77</b> | 22.71       | 22.49       | <b>22.81</b> | 21.26       | <b>22.70</b> | 22.01        |
|                                                      | 8          | 4            | 22.02                 | 22.20       | 22.69        | 21.14       | 21.48       | 21.73        | 21.26       | 21.38        | 21.03        |
|                                                      | 15         | 0            | 22.70                 | 22.08       | 22.74        | 21.00       | 21.25       | 21.70        | 21.00       | 21.27        | 21.77        |

| LTE Band 66_Uplink frequency band : 1709 to 1780 MHz |            |              |                       |             |              |             |             |              |             |              |              |
|------------------------------------------------------|------------|--------------|-----------------------|-------------|--------------|-------------|-------------|--------------|-------------|--------------|--------------|
| BW<br>(MHz)                                          | RB<br>Size | RB<br>Offset | Conducted power (dBm) |             |              |             |             |              |             |              |              |
|                                                      |            |              | QPSK                  |             |              | 16QAM       |             |              | 64QAM       |              |              |
|                                                      |            |              | CH<br>(Low)           | CH<br>(Mid) | CH<br>(High) | CH<br>(Low) | CH<br>(Mid) | CH<br>(High) | CH<br>(Low) | CH<br>(Mid)  | CH<br>(High) |
|                                                      |            |              | 131997                | 132322      | 132647       | 131997      | 132322      | 132647       | 131997      | 132322       | 132647       |
| 5                                                    | 1          | 0            | 23.47                 | 23.66       | <b>23.68</b> | 22.06       | 22.72       | 22.70        | 22.08       | <b>22.66</b> | 22.02        |
|                                                      | 1          | 24           | 23.29                 | 23.33       | 23.62        | 22.93       | 22.70       | <b>23.10</b> | 21.25       | 22.11        | 22.30        |
|                                                      | 12         | 6            | 22.07                 | 22.15       | 22.50        | 21.18       | 21.30       | 21.56        | 21.25       | 21.15        | 21.61        |
|                                                      | 25         | 0            | 22.63                 | 22.72       | 22.14        | 21.10       | 21.23       | 21.43        | 21.05       | 21.20        | 21.45        |

| LTE Band 66_Uplink frequency band : 1709 to 1780 MHz |            |              |                       |             |              |              |             |              |             |             |              |
|------------------------------------------------------|------------|--------------|-----------------------|-------------|--------------|--------------|-------------|--------------|-------------|-------------|--------------|
| BW<br>(MHz)                                          | RB<br>Size | RB<br>Offset | Conducted power (dBm) |             |              |              |             |              |             |             |              |
|                                                      |            |              | QPSK                  |             |              | 16QAM        |             |              | 64QAM       |             |              |
|                                                      |            |              | CH<br>(Low)           | CH<br>(Mid) | CH<br>(High) | CH<br>(Low)  | CH<br>(Mid) | CH<br>(High) | CH<br>(Low) | CH<br>(Mid) | CH<br>(High) |
|                                                      |            |              | 132022                | 132322      | 132622       | 132022       | 132322      | 132622       | 132022      | 132322      | 132622       |
| 10                                                   | 1          | 0            | 23.58                 | 23.67       | 23.42        | 22.66        | 22.84       | 22.41        | 22.13       | 22.03       | <b>22.66</b> |
|                                                      | 1          | 49           | <b>23.89</b>          | 23.63       | 23.61        | <b>22.94</b> | 22.76       | 22.80        | 21.80       | 22.17       | 22.00        |
|                                                      | 25         | 12           | 22.34                 | 22.03       | 22.24        | 21.55        | 21.29       | 21.15        | 21.80       | 21.32       | 21.38        |
|                                                      | 50         | 0            | 22.33                 | 22.80       | 22.08        | 21.65        | 21.05       | 21.55        | 21.78       | 21.20       | 21.75        |

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| LTE Band 66_Uplink frequency band : 1709 to 1780 MHz |            |              |                       |                       |                        |                       |                       |                        |                       |                       |                        |
|------------------------------------------------------|------------|--------------|-----------------------|-----------------------|------------------------|-----------------------|-----------------------|------------------------|-----------------------|-----------------------|------------------------|
| BW<br>(MHz)                                          | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                       |                        |                       |                       |                        |                       |                       |                        |
|                                                      |            |              | QPSK                  |                       |                        | 16QAM                 |                       |                        | 64QAM                 |                       |                        |
|                                                      |            |              | CH<br>(Low)<br>132047 | CH<br>(Mid)<br>132322 | CH<br>(High)<br>132597 | CH<br>(Low)<br>132047 | CH<br>(Mid)<br>132322 | CH<br>(High)<br>132597 | CH<br>(Low)<br>132047 | CH<br>(Mid)<br>132322 | CH<br>(High)<br>132597 |
| 15                                                   | 1          | 0            | 24.61                 | <b>24.66</b>          | 23.90                  | 22.41                 | 22.01                 | 23.32                  | 22.68                 | 22.20                 | 22.64                  |
|                                                      | 1          | 74           | 23.79                 | 23.27                 | 23.62                  | <b>23.41</b>          | 22.45                 | 23.00                  | 21.22                 | <b>22.86</b>          | 22.20                  |
|                                                      | 36         | 19           | 23.00                 | 22.06                 | 22.33                  | 21.90                 | 21.27                 | 21.41                  | 21.22                 | 21.37                 | 21.71                  |
|                                                      | 75         | 0            | 22.94                 | 22.96                 | 22.19                  | 21.93                 | 21.08                 | 21.48                  | 21.13                 | 21.30                 | 21.75                  |

| LTE Band 66_Uplink frequency band : 1709 to 1780 MHz |            |              |                       |                       |                        |                       |                       |                        |                       |                       |                        |
|------------------------------------------------------|------------|--------------|-----------------------|-----------------------|------------------------|-----------------------|-----------------------|------------------------|-----------------------|-----------------------|------------------------|
| BW<br>(MHz)                                          | RB<br>Size | RB<br>Offset | Conducted power (dBm) |                       |                        |                       |                       |                        |                       |                       |                        |
|                                                      |            |              | QPSK                  |                       |                        | 16QAM                 |                       |                        | 64QAM                 |                       |                        |
|                                                      |            |              | CH<br>(Low)<br>132072 | CH<br>(Mid)<br>132322 | CH<br>(High)<br>132572 | CH<br>(Low)<br>132072 | CH<br>(Mid)<br>132322 | CH<br>(High)<br>132572 | CH<br>(Low)<br>132072 | CH<br>(Mid)<br>132322 | CH<br>(High)<br>132572 |
| 20                                                   | 1          | 0            | 24.26                 | 24.69                 | <b>24.71</b>           | <b>23.82</b>          | 22.38                 | 23.36                  | 23.09                 | <b>23.57</b>          | 22.68                  |
|                                                      | 1          | 99           | 23.94                 | 23.60                 | 23.70                  | 22.82                 | 23.11                 | 23.14                  | 21.46                 | 22.52                 | 22.34                  |
|                                                      | 50         | 25           | 23.00                 | 22.05                 | 22.58                  | 22.14                 | 21.22                 | 21.54                  | 21.46                 | 22.32                 | 22.84                  |
|                                                      | 100        | 0            | 22.94                 | 22.12                 | 22.46                  | 21.81                 | 21.14                 | 21.73                  | 21.01                 | 22.36                 | 21.00                  |

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## HSDPA Release 6 MODE:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing.

## HSDPA SUB-TEST Setting

Table C.10.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

| Sub-test | $\beta_c$         | $\beta_d$         | $\beta_d$<br>(SF) | $\beta_c/\beta_d$ | $\beta_{HS}$<br>(Note 1,<br>Note 2) | CM (dB)<br>(Note 3) | MPR<br>(dB)<br>(Note 3) | RMC<br>(Kbps) |
|----------|-------------------|-------------------|-------------------|-------------------|-------------------------------------|---------------------|-------------------------|---------------|
| 1        | 2/15              | 15/15             | 64                | 2/15              | 4/15                                | 0.0                 | 0.0                     | 12.2          |
| 2        | 12/15<br>(Note 4) | 15/15<br>(Note 4) | 64                | 12/15<br>(Note 4) | 24/15                               | 1.0                 | 0.0                     | 12.2          |
| 3        | 15/15             | 8/15              | 64                | 15/8              | 30/15                               | 1.5                 | 0.5                     | 12.2          |
| 4        | 15/15             | 4/15              | 64                | 15/4              | 30/15                               | 1.5                 | 0.5                     | 12.2          |

**Note: The recommended HSDPA MPRs are implemented as per following sub-tests.**

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# Results:

| Mode          | Sub-test | Avg. Power (dBm)<br>Channel |       |       | Power Class 3 Lim-<br>itation (dBm) | Comments |
|---------------|----------|-----------------------------|-------|-------|-------------------------------------|----------|
|               |          | 9262                        | 9400  | 9538  |                                     |          |
| HSDPA<br>(B2) | 1        | 22.67                       | 22.56 | 21.96 | 20.3dBm – 25.7dBm                   | Pass     |
|               | 2        | 22.66                       | 22.54 | 21.93 | 20.3dBm – 25.7dBm                   | Pass     |
|               | 3        | 22.2                        | 22.08 | 21.46 | 19.8dBm – 25.7dBm                   | Pass     |
|               | 4        | 22.21                       | 22.09 | 21.47 | 19.8dBm – 25.7dBm                   | Pass     |

| Mode          | Sub-test | Avg. Power (dBm)<br>Channel |       |       | Power Class 3 Lim-<br>itation (dBm) | Comments |
|---------------|----------|-----------------------------|-------|-------|-------------------------------------|----------|
|               |          | 1312                        | 1413  | 1513  |                                     |          |
| HSDPA<br>(B4) | 1        | 20.98                       | 21.62 | 22.39 | 20.3dBm – 25.7dBm                   | Pass     |
|               | 2        | 20.82                       | 21.34 | 22.35 | 20.3dBm – 25.7dBm                   | Pass     |
|               | 3        | 20.41                       | 20.92 | 21.91 | 19.8dBm – 25.7dBm                   | Pass     |
|               | 4        | 20.48                       | 20.98 | 21.9  | 19.8dBm – 25.7dBm                   | Pass     |

| Mode          | Sub-test | Avg. Power (dBm)<br>Channel |       |       | Power Class 3 Lim-<br>itation (dBm) | Comments |
|---------------|----------|-----------------------------|-------|-------|-------------------------------------|----------|
|               |          | 4132                        | 4183  | 4233  |                                     |          |
| HSDPA<br>(B5) | 1        | 22.74                       | 22.69 | 23.08 | 20.3dBm – 25.7dBm                   | Pass     |
|               | 2        | 22.7                        | 22.63 | 23.07 | 20.3dBm – 25.7dBm                   | Pass     |
|               | 3        | 22.19                       | 22.12 | 22.57 | 19.8dBm – 25.7dBm                   | Pass     |
|               | 4        | 22.21                       | 22.11 | 22.58 | 19.8dBm – 25.7dBm                   | Pass     |

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## HSPA (HSDPA & HSUPA) Release 6 MODE

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

### HSPA SUB-TEST Setting

Table C.11.1.3:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

| Sub-test | $\beta_c$      | $\beta_d$      | $\beta_d$ (SF) | $\beta_c/\beta_d$ | $\beta_{HS}$ | $\beta_{ec}$ | $\beta_{ed}$                                   | $\beta_{ed}$ (SF) | $\beta_{ed}$ (Code s) | CM (dB) | MPR (dB) | AG Index | E-TFCI | RMC (Kbps) |
|----------|----------------|----------------|----------------|-------------------|--------------|--------------|------------------------------------------------|-------------------|-----------------------|---------|----------|----------|--------|------------|
| 1        | 11/15 (Note 3) | 15/15 (Note 3) | 64             | 11/15 (Note 3)    | 22/15        | 209/225      | 1309/225                                       | 4                 | 1                     | 1.0     | 0.0      | 20       | 75     | 12.2       |
| 2        | 6/15           | 15/15          | 64             | 6/15              | 12/15        | 12/15        | 94/75                                          | 4                 | 1                     | 3.0     | 2.0      | 12       | 67     | 12.2       |
| 3        | 15/15          | 9/15           | 64             | 15/9              | 30/15        | 30/15        | $\beta_{ed1}$ : 47/15<br>$\beta_{ed2}$ : 47/15 | 4                 | 2                     | 2.0     | 1.0      | 15       | 92     | 12.2       |
| 4        | 2/15           | 15/15          | 64             | 2/15              | 4/15         | 2/15         | 56/75                                          | 4                 | 1                     | 3.0     | 2.0      | 17       | 71     | 12.2       |
| 5        | 15/15 (Note 4) | 15/15 (Note 4) | 64             | 15/15 (Note 4)    | 30/15        | 24/15        | 134/15                                         | 4                 | 1                     | 1.0     | 0.0      | 21       | 81     | 12.2       |

**Note:** The recommended HSUPA MPRs are implemented as per following sub-tests.

### Results:

| Mode     | Sub test | Avg. Power (dBm)<br>Channel |       |       | Power Class 3<br>Limitation (dBm) | Comments |
|----------|----------|-----------------------------|-------|-------|-----------------------------------|----------|
|          |          | 9262                        | 9400  | 9538  |                                   |          |
| HSUPA II | 1        | 22.01                       | 22.52 | 21.9  | 18.8dBm – 25.7dBm                 | Pass     |
|          | 2        | 21.3                        | 21.94 | 21.28 | 16.8dBm – 25.7dBm                 | Pass     |
|          | 3        | 22.13                       | 22.53 | 21.93 | 17.8dBm – 25.7dBm                 | Pass     |
|          | 4        | 21.8                        | 22.41 | 21.76 | 16.8dBm – 25.7dBm                 | Pass     |
|          | 5        | 22.16                       | 22.55 | 21.94 | 18.8dBm – 25.7dBm                 | Pass     |

| Mode     | Sub test | Avg. Power (dBm)<br>Channel |       |       | Power Class 3<br>Limitation (dBm) | Comments |
|----------|----------|-----------------------------|-------|-------|-----------------------------------|----------|
|          |          | 1312                        | 1413  | 1513  |                                   |          |
| HSDPA IV | 1        | 20.75                       | 21.36 | 22.36 | 20.3dBm – 25.7dBm                 | Pass     |
|          | 2        | 19.99                       | 20.72 | 21.79 | 20.3dBm – 25.7dBm                 | Pass     |
|          | 3        | 20.9                        | 21.52 | 22.37 | 19.8dBm – 25.7dBm                 | Pass     |
|          | 4        | 20.41                       | 21.16 | 22.28 | 19.8dBm – 25.7dBm                 | Pass     |
|          | 5        | 20.91                       | 21.55 | 22.38 | 19.8dBm – 25.7dBm                 | Pass     |

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| Mode    | Sub test | Avg. Power (dBm)<br>Channel |              |       | Power Class 3<br>Limitation (dBm) | Comments    |
|---------|----------|-----------------------------|--------------|-------|-----------------------------------|-------------|
|         |          | 4132                        | 4183         | 4233  |                                   |             |
| HSUPA V | 1        | 22.65                       | <b>22.59</b> | 23.06 | 18.8dBm – 25.7dBm                 | <b>Pass</b> |
|         | 2        | 22.05                       | 22.08        | 22.54 | 16.8dBm – 25.7dBm                 | <b>Pass</b> |
|         | 3        | 22.72                       | 22.6         | 23.06 | 17.8dBm – 25.7dBm                 | <b>Pass</b> |
|         | 4        | 22.59                       | 22.58        | 23.03 | 16.8dBm – 25.7dBm                 | <b>Pass</b> |
|         | 5        | 22.73                       | 22.61        | 23.07 | 18.8dBm – 25.7dBm                 | <b>Pass</b> |

### WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator. Set Communication Tester MT8820C function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data). The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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## 7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

### 7.1. Standard Applicable

According to FCC §2.1046

FCC 22.913(a) Mobile station is limited to 7W ERP.

FCC 24.232(b) Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(a)(3) Mobile and portable stations (hand-held devices) are limited to 250 mW/ 5MHz EIRP.

FCC 27.50(c)(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

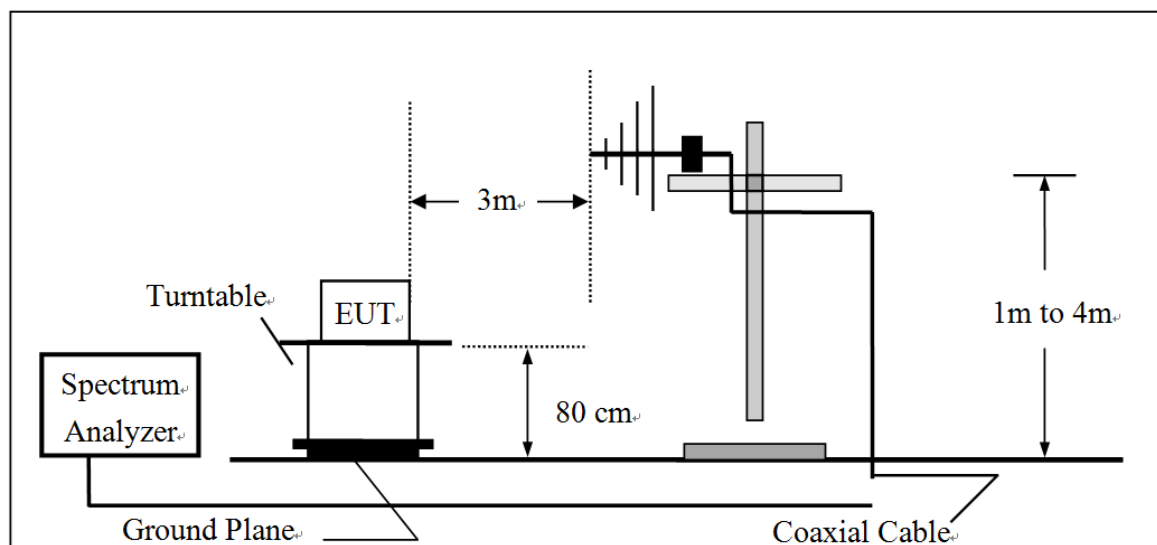
FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2 W EIRP

FCC 90.635(b) Mobile station is limited to 100W ERP

### 7.2. Test SET-UP

(A) Radiated Power Test Set-Up, Frequency Below 1000MHz



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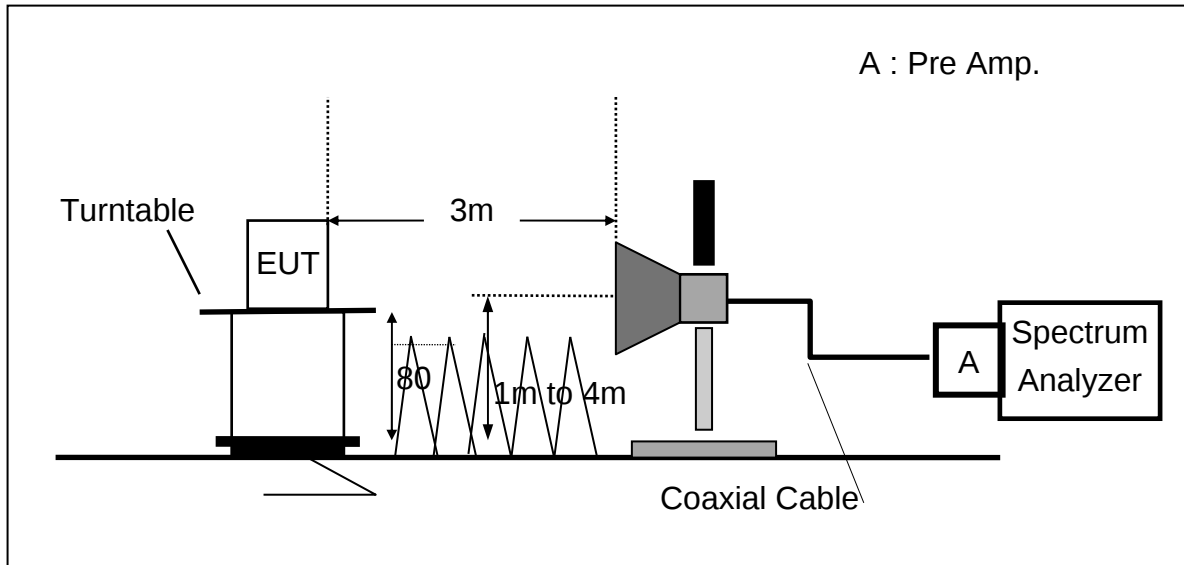
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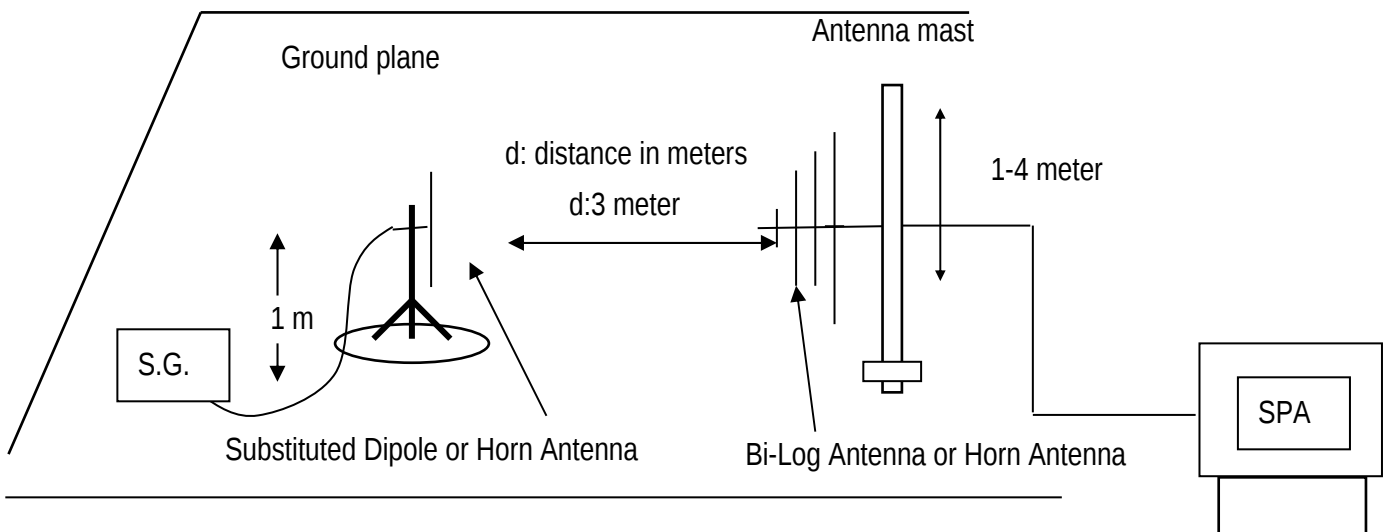
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## (B) Radiated Power Test Set-UP Frequency Over 1 GHz



## (C) Substituted Method Test Set-UP



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### 7.3. Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 971168 D01
2. The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
3. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated
4. The testing follows the Measurement Procedure of FCC KDB 971168 D01
5. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
6.  $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
7.  $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
8. Spectrum setting:
  - (1) Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and  $VBW \geq 3 \times RBW$ .
  - (2) KDB 971168 D01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.

Set frequency = nominal signal center frequency;  
 Set span = 2 X occupied BW;  
 Set RBW  $\approx$  1~5% of the span, not to exceed 1 MHz  
 Set VBW = 3 x RBW;  
 Select average power (RMS) detector  
 Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt integration time (ex. Point = 601points, then sweep time =  $601 \times 10^{-3} = 6s$ ).

Activate trace averaging routine over a minimum of 10 sweeps;

Activate marker/span pair and set span = signal or channel bandwidth;

Activate the band/interval power marker function;

Record the band power level;

Record adjusted value as the average signal power level. Then activate the occupied bandwidth measurement function.

The proper adjustment due to limitation of spectrum capability is given compensated to spectrum with conversion factor of  $10 \times \log(TBW/RBW)$ , where TBW is the transmission of UE exceeding the maximum BW UE can extends, and RBW is the resolution BW in UE.

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#### 7.4. Measurement Equipment Used

| ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber |                 |                                |                  |            |            |
|--------------------------------------------------|-----------------|--------------------------------|------------------|------------|------------|
| EQUIPMENT TYPE                                   | MFR             | MODEL NUMBER                   | SERIAL NUMBER    | LAST CAL.  | CAL DUE.   |
| EMI Test Receiver                                | R&S             | ESU 40                         | 100363           | 04/18/2017 | 04/17/2018 |
| Broadband Antenna                                | TESEQ           | CBL 6112D                      | 35240            | 11/03/2016 | 11/02/2017 |
| Broadband Antenna                                | TESEQ           | CBL 6112D                      | 35243            | 11/09/2016 | 11/08/2017 |
| Horn Antenna                                     | ETS-Lindgren    | 3117                           | 00143272         | 12/15/2016 | 12/16/2017 |
| Horn Antenna                                     | ETS-Lindgren    | 3117                           | 143279           | 11/14/2016 | 11/13/2017 |
| Horn Antenna                                     | Schwarzbeck     | BBHA9170                       | 184              | 12/11/2016 | 12/10/2017 |
| Horn Antenna                                     | Schwarzbeck     | BBHA9170                       | 185              | 08/01/2017 | 07/31/2018 |
| Pre Amplifier                                    | EMC Instruments | EMC330                         | 980096           | 12/12/2016 | 12/11/2017 |
| Pre Amplifier                                    | EMC Instruments | EMC0011830                     | 980199           | 12/12/2016 | 12/11/2017 |
| Pre Amplifier                                    | R&S             | SCU-18                         | 10204            | 12/12/2016 | 12/11/2017 |
| Pre Amplifier                                    | R&S             | SCU-26                         | 100780           | 12/12/2016 | 12/11/2017 |
| Pre Amplifier                                    | EMC Instruments | EMC184045B                     | 980135           | 12/12/2016 | 12/11/2017 |
| Coaxial Cable                                    | Huber+Suhner    | RG 214/U                       | 966Rx 9K-30M     | 12/12/2016 | 12/11/2017 |
| Coaxial Cable                                    | Huber+Suhner    | RG 214/U<br>SUCOFLEX 104       | 966Rx 30M-3G     | 12/12/2016 | 12/11/2017 |
| Coaxial Cable                                    | Huber+Suhner    | SUCOFLEX 104                   | 966Rx 1G-18G     | 12/12/2016 | 12/11/2017 |
| Coaxial Cable                                    | Huber+Suhner    | mini 141-12<br>SUCOFLEX<br>104 | 966Rx<br>18G-40G | 12/12/2016 | 12/11/2017 |
| Coaxial Cable                                    | Huber+Suhner    | SUCOFLEX 104                   | 966Tx<br>30M-18G | 12/12/2016 | 12/11/2017 |
| Coaxial Cable                                    | Huber+Suhner    | SUCOFLEX 102                   | 966Tx<br>18G-40G | 12/12/2016 | 12/11/2017 |
| Attenuator                                       | WOKEN           | 218FS-10                       | RF27             | 12/12/2016 | 12/11/2017 |
| Communication Tester                             | Anritsu         | MT8820C                        | 6201107337       | 05/25/2017 | 05/24/2018 |
| Site NSA                                         | SGS             | 966 Chamber C                  | SAC-C            | 03/02/2017 | 03/01/2018 |
| Site VSWR                                        | SGS             | 966 Chamber C                  | SAC-C            | 03/02/2017 | 03/01/2018 |
| DC Power Supply                                  | HOLA            | DP-3003                        | D7070035         | 05/04/2017 | 05/03/2018 |
| Controller                                       | MF              | MF-7802                        | N/A              | N.C.R.     | N.C.R.     |
| Antenna Master                                   | MF              | N/A                            | N/A              | N.C.R.     | N.C.R.     |
| Turn Table                                       | MF              | N/A                            | N/A              | N.C.R.     | N.C.R.     |
| Test Software                                    | World-Pallas    | Dr. E                          | V 3.0 Lite       | N.C.R.     | N.C.R.     |

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## 7.5. Measurement Result: (Peak) –using option of peak measurement

| EUT                                            |                       |       | Measurement  |             |              |            |              |       |
|------------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                                | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 2<br>BW: 1.4M<br>QPSK<br>RB: 1,0   | 1850.7                | 18607 | V            | 12.59       | 9.57         | -6.86      | 15.31        | 33.01 |
|                                                |                       |       | H            | 19.21       | 9.57         | -6.86      | 21.93        | 33.01 |
|                                                | 1880.0                | 18900 | V            | 12.72       | 9.69         | -6.91      | 15.50        | 33.01 |
|                                                |                       |       | H            | 20.37       | 9.69         | -6.91      | 23.16        | 33.01 |
|                                                | 1909.3                | 19193 | V            | 11.73       | 9.82         | -6.97      | 14.58        | 33.01 |
|                                                |                       |       | H            | 20.64       | 9.82         | -6.97      | <b>23.50</b> | 33.01 |
| LTE<br>BAND 2<br>BW: 1.4M<br>QPSK<br>RB: 1,5   | 1850.7                | 18607 | V            | 12.46       | 9.57         | -6.86      | 15.18        | 33.01 |
|                                                |                       |       | H            | 19.04       | 9.57         | -6.86      | 21.76        | 33.01 |
|                                                | 1880.0                | 18900 | V            | 12.94       | 9.70         | -6.91      | 15.73        | 33.01 |
|                                                |                       |       | H            | 20.32       | 9.70         | -6.91      | 23.11        | 33.01 |
|                                                | 1909.3                | 19193 | V            | 11.37       | 9.82         | -6.97      | 14.23        | 33.01 |
|                                                |                       |       | H            | 20.48       | 9.82         | -6.97      | 23.34        | 33.01 |
| LTE<br>BAND 2<br>BW: 1.4M<br>16QAM<br>RB: 1,0  | 1850.7                | 18607 | V            | 12.48       | 9.58         | -6.86      | 15.19        | 33.01 |
|                                                |                       |       | H            | 19.22       | 9.58         | -6.86      | 21.94        | 33.01 |
|                                                | 1880.0                | 18900 | V            | 12.84       | 9.70         | -6.91      | 15.62        | 33.01 |
|                                                |                       |       | H            | 20.46       | 9.70         | -6.91      | 23.24        | 33.01 |
|                                                | 1909.3                | 19193 | V            | 11.73       | 9.82         | -6.97      | 14.58        | 33.01 |
|                                                |                       |       | H            | 20.71       | 9.82         | -6.97      | <b>23.56</b> | 33.01 |
| LTE<br>BAND 2<br>BW: 1.4M<br>16QAM<br>RB: 1,5  | 1850.7                | 18607 | V            | 12.54       | 9.58         | -6.86      | 15.26        | 33.01 |
|                                                |                       |       | H            | 19.14       | 9.58         | -6.86      | 21.86        | 33.01 |
|                                                | 1880.0                | 18900 | V            | 13.05       | 9.70         | -6.91      | 15.84        | 33.01 |
|                                                |                       |       | H            | 20.41       | 9.70         | -6.91      | 23.20        | 33.01 |
|                                                | 1909.3                | 19193 | V            | 11.43       | 9.82         | -6.97      | 14.28        | 33.01 |
|                                                |                       |       | H            | 20.60       | 9.82         | -6.97      | 23.45        | 33.01 |
| LTE<br>BAND 2<br>BW: 1.4M<br>64QAM<br>RB: 1,0  | 1850.7                | 18607 | V            | 14.09       | 9.57         | -6.86      | 16.81        | 33.01 |
|                                                |                       |       | H            | 12.01       | 9.57         | -6.86      | 14.72        | 33.01 |
|                                                | 1880.0                | 18900 | V            | 10.87       | 9.70         | -6.91      | 13.65        | 33.01 |
|                                                |                       |       | H            | 14.72       | 9.70         | -6.91      | <b>17.50</b> | 33.01 |
|                                                | 1909.3                | 19193 | V            | 10.61       | 9.82         | -6.97      | 13.46        | 33.01 |
|                                                |                       |       | H            | 13.69       | 9.82         | -6.97      | 16.55        | 33.01 |
| LTE<br>BAND 2<br>BW: 1.4M<br>64QAM<br>RB: 1,74 | 1850.7                | 18607 | V            | 12.00       | 9.57         | -6.86      | 14.72        | 33.01 |
|                                                |                       |       | H            | 14.09       | 9.57         | -6.86      | 16.80        | 33.01 |
|                                                | 1880.0                | 18900 | V            | 10.89       | 9.69         | -6.91      | 13.67        | 33.01 |
|                                                |                       |       | H            | 14.60       | 9.70         | -6.91      | 17.39        | 33.01 |
|                                                | 1909.3                | 19193 | V            | 10.65       | 9.82         | -6.97      | 13.51        | 33.01 |
|                                                |                       |       | H            | 13.47       | 9.82         | -6.97      | 16.33        | 33.01 |

**Remark :** ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                       |                       |       | Measurement  |             |              |            |              |       |
|-------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                            | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                           | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE BAND 2<br>BW: 3M<br>QPSK<br>RB: 1,0   | 1851.5                | 18615 | V            | 12.39       | 9.57         | -6.86      | 15.10        | 33.01 |
|                                           |                       |       | H            | 19.19       | 9.57         | -6.86      | 21.90        | 33.01 |
|                                           | 1880.0                | 18900 | V            | 12.48       | 9.69         | -6.91      | 15.26        | 33.01 |
|                                           |                       |       | H            | 20.02       | 9.69         | -6.91      | 22.80        | 33.01 |
|                                           | 1908.5                | 19185 | V            | 12.15       | 9.81         | -6.96      | 15.00        | 33.01 |
|                                           |                       |       | H            | 20.82       | 9.81         | -6.96      | <b>23.67</b> | 33.01 |
| LTE BAND 2<br>BW: 3M<br>QPSK<br>RB: 1,14  | 1851.5                | 18615 | V            | 12.50       | 9.58         | -6.86      | 15.22        | 33.01 |
|                                           |                       |       | H            | 18.84       | 9.58         | -6.86      | 21.56        | 33.01 |
|                                           | 1880.0                | 18900 | V            | 12.89       | 9.70         | -6.92      | 15.68        | 33.01 |
|                                           |                       |       | H            | 19.95       | 9.70         | -6.92      | 22.73        | 33.01 |
|                                           | 1908.5                | 19185 | V            | 11.41       | 9.82         | -6.97      | 14.26        | 33.01 |
|                                           |                       |       | H            | 20.47       | 9.82         | -6.97      | 23.33        | 33.01 |
| LTE BAND 2<br>BW: 3M<br>16QAM<br>RB: 1,0  | 1851.5                | 18615 | V            | 12.47       | 9.57         | -6.86      | 15.19        | 33.01 |
|                                           |                       |       | H            | 19.24       | 9.57         | -6.86      | 21.96        | 33.01 |
|                                           | 1880.0                | 18900 | V            | 12.31       | 9.70         | -6.91      | 15.10        | 33.01 |
|                                           |                       |       | H            | 19.96       | 9.70         | -6.91      | 22.75        | 33.01 |
|                                           | 1908.5                | 19185 | V            | 12.25       | 9.81         | -6.96      | 15.10        | 33.01 |
|                                           |                       |       | H            | 20.86       | 9.81         | -6.96      | <b>23.71</b> | 33.01 |
| LTE BAND 2<br>BW: 3M<br>16QAM<br>RB: 1,14 | 1851.5                | 18615 | V            | 12.50       | 9.58         | -6.86      | 15.22        | 33.01 |
|                                           |                       |       | H            | 18.92       | 9.58         | -6.86      | 21.64        | 33.01 |
|                                           | 1880.0                | 18900 | V            | 12.90       | 9.70         | -6.92      | 15.69        | 33.01 |
|                                           |                       |       | H            | 20.11       | 9.70         | -6.92      | 22.90        | 33.01 |
|                                           | 1908.5                | 19185 | V            | 11.37       | 9.82         | -6.97      | 14.23        | 33.01 |
|                                           |                       |       | H            | 20.56       | 9.82         | -6.97      | 23.41        | 33.01 |
| LTE BAND 2<br>BW: 3M<br>64QAM<br>RB: 1,0  | 1851.5                | 18615 | V            | 12.18       | 9.57         | -6.86      | 14.90        | 33.01 |
|                                           |                       |       | H            | 14.42       | 9.57         | -6.86      | 17.14        | 33.01 |
|                                           | 1880.0                | 18900 | V            | 10.79       | 9.69         | -6.91      | 13.57        | 33.01 |
|                                           |                       |       | H            | 14.70       | 9.69         | -6.91      | 17.48        | 33.01 |
|                                           | 1908.5                | 19185 | V            | 13.99       | 9.81         | -6.96      | 16.84        | 33.01 |
|                                           |                       |       | H            | 14.93       | 9.81         | -6.96      | <b>17.78</b> | 33.01 |
| LTE BAND 2<br>BW: 3M<br>64QAM<br>RB: 1,74 | 1851.5                | 18615 | V            | 12.19       | 9.58         | -6.86      | 14.91        | 33.01 |
|                                           |                       |       | H            | 13.77       | 9.58         | -6.86      | 16.49        | 33.01 |
|                                           | 1880.0                | 18900 | V            | 10.78       | 9.70         | -6.92      | 13.57        | 33.01 |
|                                           |                       |       | H            | 14.35       | 9.70         | -6.92      | 17.14        | 33.01 |
|                                           | 1908.5                | 19185 | V            | 14.01       | 9.82         | -6.97      | 16.86        | 33.01 |
|                                           |                       |       | H            | 14.72       | 9.82         | -6.97      | 17.57        | 33.01 |

**Remark :** ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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| EUT                                       |                       |       | Measurement  |             |              |            |              |       |
|-------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                            | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                           | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE BAND 2<br>BW: 5M<br>QPSK<br>RB: 1,0   | 1852.5                | 18625 | V            | 12.41       | 9.57         | -6.86      | 15.12        | 33.01 |
|                                           |                       |       | H            | 19.18       | 9.57         | -6.86      | 21.90        | 33.01 |
|                                           | 1880.0                | 18900 | V            | 12.28       | 9.69         | -6.91      | 15.06        | 33.01 |
|                                           |                       |       | H            | 20.10       | 9.69         | -6.91      | 22.88        | 33.01 |
|                                           | 1907.5                | 19175 | V            | 12.67       | 9.80         | -6.96      | 15.52        | 33.01 |
|                                           |                       |       | H            | 20.45       | 9.80         | -6.96      | <b>23.30</b> | 33.01 |
| LTE BAND 2<br>BW: 5M<br>QPSK<br>RB: 1,24  | 1852.5                | 18625 | V            | 12.43       | 9.59         | -6.86      | 15.15        | 33.01 |
|                                           |                       |       | H            | 18.82       | 9.59         | -6.86      | 21.55        | 33.01 |
|                                           | 1880.0                | 18900 | V            | 13.14       | 9.71         | -6.92      | 15.93        | 33.01 |
|                                           |                       |       | H            | 20.05       | 9.71         | -6.92      | 22.83        | 33.01 |
|                                           | 1907.5                | 19175 | V            | 11.41       | 9.82         | -6.97      | 14.26        | 33.01 |
|                                           |                       |       | H            | 20.43       | 9.82         | -6.97      | 23.28        | 33.01 |
| LTE BAND 2<br>BW: 5M<br>16QAM<br>RB: 1,0  | 1852.5                | 18625 | V            | 12.47       | 9.57         | -6.86      | 15.19        | 33.01 |
|                                           |                       |       | H            | 19.23       | 9.57         | -6.86      | 21.94        | 33.01 |
|                                           | 1880.0                | 18900 | V            | 12.20       | 9.69         | -6.91      | 14.98        | 33.01 |
|                                           |                       |       | H            | 20.13       | 9.69         | -6.91      | 22.91        | 33.01 |
|                                           | 1907.5                | 19175 | V            | 12.77       | 9.80         | -6.96      | 15.61        | 33.01 |
|                                           |                       |       | H            | 20.58       | 9.80         | -6.96      | <b>23.43</b> | 33.01 |
| LTE BAND 2<br>BW: 5M<br>16QAM<br>RB: 1,24 | 1852.5                | 18625 | V            | 12.50       | 9.59         | -6.86      | 15.22        | 33.01 |
|                                           |                       |       | H            | 18.87       | 9.59         | -6.86      | 21.60        | 33.01 |
|                                           | 1880.0                | 18900 | V            | 13.20       | 9.70         | -6.92      | 15.99        | 33.01 |
|                                           |                       |       | H            | 20.17       | 9.70         | -6.92      | 22.96        | 33.01 |
|                                           | 1907.5                | 19175 | V            | 11.48       | 9.82         | -6.97      | 14.34        | 33.01 |
|                                           |                       |       | H            | 20.54       | 9.82         | -6.97      | 23.39        | 33.01 |
| LTE BAND 2<br>BW: 5M<br>64QAM<br>RB: 1,0  | 1852.5                | 18625 | V            | 11.93       | 9.57         | -6.86      | 14.64        | 33.01 |
|                                           |                       |       | H            | 13.77       | 9.57         | -6.86      | 16.49        | 33.01 |
|                                           | 1880.0                | 18900 | V            | 12.68       | 9.69         | -6.91      | 15.46        | 33.01 |
|                                           |                       |       | H            | 13.78       | 9.69         | -6.91      | 16.56        | 33.01 |
|                                           | 1907.5                | 19175 | V            | 12.83       | 9.80         | -6.96      | 15.67        | 33.01 |
|                                           |                       |       | H            | 15.01       | 9.80         | -6.96      | <b>17.85</b> | 33.01 |
| LTE BAND 2<br>BW: 5M<br>64QAM<br>RB: 1,74 | 1852.5                | 18625 | V            | 11.56       | 9.59         | -6.86      | 14.29        | 33.01 |
|                                           |                       |       | H            | 13.51       | 9.59         | -6.86      | 16.24        | 33.01 |
|                                           | 1880.0                | 18900 | V            | 12.75       | 9.71         | -6.92      | 15.54        | 33.01 |
|                                           |                       |       | H            | 13.39       | 9.71         | -6.92      | 16.18        | 33.01 |
|                                           | 1907.5                | 19175 | V            | 12.45       | 9.82         | -6.97      | 15.31        | 33.01 |
|                                           |                       |       | H            | 14.81       | 9.82         | -6.97      | 17.66        | 33.01 |

**Remark :** ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                        |                       |       | Measurement  |             |              |            |              |       |
|--------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                             | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                            | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE BAND 2<br>BW: 10M<br>QPSK<br>RB: 1,0   | 1855.0                | 18650 | V            | 12.45       | 9.57         | -6.86      | 15.16        | 33.01 |
|                                            |                       |       | H            | 19.17       | 9.57         | -6.86      | 21.89        | 33.01 |
|                                            | 1880.0                | 18900 | V            | 12.19       | 9.68         | -6.90      | 14.96        | 33.01 |
|                                            |                       |       | H            | 20.16       | 9.68         | -6.90      | 22.94        | 33.01 |
|                                            | 1905.0                | 19150 | V            | 13.58       | 9.78         | -6.95      | 16.41        | 33.01 |
|                                            |                       |       | H            | 19.95       | 9.78         | -6.95      | 22.78        | 33.01 |
| LTE BAND 2<br>BW: 10M<br>QPSK<br>RB: 1,49  | 1855.0                | 18650 | V            | 12.66       | 9.61         | -6.87      | 15.40        | 33.01 |
|                                            |                       |       | H            | 19.17       | 9.61         | -6.87      | 21.90        | 33.01 |
|                                            | 1880.0                | 18900 | V            | 13.80       | 9.72         | -6.92      | 16.60        | 33.01 |
|                                            |                       |       | H            | 20.07       | 9.72         | -6.92      | 22.87        | 33.01 |
|                                            | 1905.0                | 19150 | V            | 11.52       | 9.82         | -6.97      | 14.38        | 33.01 |
|                                            |                       |       | H            | 20.50       | 9.82         | -6.97      | <b>23.36</b> | 33.01 |
| LTE BAND 2<br>BW: 10M<br>16QAM<br>RB: 1,0  | 1855.0                | 18650 | V            | 12.47       | 9.57         | -6.86      | 15.18        | 33.01 |
|                                            |                       |       | H            | 19.19       | 9.57         | -6.86      | 21.91        | 33.01 |
|                                            | 1880.0                | 18900 | V            | 12.12       | 9.68         | -6.90      | 14.89        | 33.01 |
|                                            |                       |       | H            | 20.20       | 9.68         | -6.90      | 22.98        | 33.01 |
|                                            | 1905.0                | 19150 | V            | 13.66       | 9.78         | -6.95      | 16.49        | 33.01 |
|                                            |                       |       | H            | 20.01       | 9.78         | -6.95      | 22.84        | 33.01 |
| LTE BAND 2<br>BW: 10M<br>16QAM<br>RB: 1,49 | 1855.0                | 18650 | V            | 12.70       | 9.61         | -6.87      | 15.44        | 33.01 |
|                                            |                       |       | H            | 19.23       | 9.61         | -6.87      | 21.96        | 33.01 |
|                                            | 1880.0                | 18900 | V            | 13.73       | 9.71         | -6.92      | 16.52        | 33.01 |
|                                            |                       |       | H            | 20.08       | 9.71         | -6.92      | 22.87        | 33.01 |
|                                            | 1905.0                | 19150 | V            | 11.56       | 9.82         | -6.97      | 14.42        | 33.01 |
|                                            |                       |       | H            | 20.59       | 9.82         | -6.97      | <b>23.44</b> | 33.01 |
| LTE BAND 2<br>BW: 10M<br>64QAM<br>RB: 1,0  | 1855.0                | 18650 | V            | 12.95       | 9.58         | -6.86      | 15.67        | 33.01 |
|                                            |                       |       | H            | 14.50       | 9.57         | -6.86      | <b>17.22</b> | 33.01 |
|                                            | 1880.0                | 18900 | V            | 12.21       | 9.68         | -6.91      | 14.98        | 33.01 |
|                                            |                       |       | H            | 14.01       | 9.68         | -6.90      | 16.78        | 33.01 |
|                                            | 1905.0                | 19150 | V            | 13.31       | 9.79         | -6.95      | 16.14        | 33.01 |
|                                            |                       |       | H            | 13.72       | 9.78         | -6.95      | 16.55        | 33.01 |
| LTE BAND 2<br>BW: 10M<br>64QAM<br>RB: 1,74 | 1855.0                | 18650 | V            | 11.92       | 9.61         | -6.87      | 14.66        | 33.01 |
|                                            |                       |       | H            | 13.90       | 9.61         | -6.87      | 16.64        | 33.01 |
|                                            | 1880.0                | 18900 | V            | 12.43       | 9.71         | -6.92      | 15.22        | 33.01 |
|                                            |                       |       | H            | 13.49       | 9.71         | -6.92      | 16.28        | 33.01 |
|                                            | 1905.0                | 19150 | V            | 12.64       | 9.82         | -6.97      | 15.49        | 33.01 |
|                                            |                       |       | H            | 13.75       | 9.78         | -6.95      | 16.58        | 33.01 |

Remark : (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                           |                       |       | Measurement  |             |              |            |              |       |
|-----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                               | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 2<br>BW: 15M<br>QPSK<br>RB: 1,0   | 1857.5                | 18675 | V            | 12.46       | 9.57         | -6.86      | 15.18        | 33.01 |
|                                               |                       |       | H            | 19.15       | 9.57         | -6.86      | 21.86        | 33.01 |
|                                               | 1880.0                | 18900 | V            | 9.71        | 9.67         | -6.90      | 12.47        | 33.01 |
|                                               |                       |       | H            | 19.91       | 9.67         | -6.90      | 22.68        | 33.01 |
|                                               | 1902.5                | 19125 | V            | 14.43       | 9.76         | -6.94      | 17.25        | 33.01 |
|                                               |                       |       | H            | 20.42       | 9.76         | -6.94      | 23.24        | 33.01 |
| LTE<br>BAND 2<br>BW: 15M<br>QPSK<br>RB: 1,74  | 1857.5                | 18675 | V            | 11.80       | 9.63         | -6.88      | 14.54        | 33.01 |
|                                               |                       |       | H            | 19.12       | 9.63         | -6.88      | 21.87        | 33.01 |
|                                               | 1880.0                | 18900 | V            | 13.80       | 9.72         | -6.92      | 16.60        | 33.01 |
|                                               |                       |       | H            | 19.81       | 9.72         | -6.92      | 22.61        | 33.01 |
|                                               | 1902.5                | 19125 | V            | 11.56       | 9.82         | -6.97      | 14.41        | 33.01 |
|                                               |                       |       | H            | 20.53       | 9.82         | -6.97      | <b>23.39</b> | 33.01 |
| LTE<br>BAND 2<br>BW: 15M<br>16QAM<br>RB: 1,0  | 1857.5                | 18675 | V            | 12.48       | 9.58         | -6.86      | 15.20        | 33.01 |
|                                               |                       |       | H            | 19.18       | 9.58         | -6.86      | 21.90        | 33.01 |
|                                               | 1880.0                | 18900 | V            | 11.76       | 9.67         | -6.90      | 14.53        | 33.01 |
|                                               |                       |       | H            | 19.83       | 9.67         | -6.90      | 22.60        | 33.01 |
|                                               | 1902.5                | 19125 | V            | 14.46       | 9.76         | -6.94      | 17.28        | 33.01 |
|                                               |                       |       | H            | 20.54       | 9.76         | -6.94      | <b>23.36</b> | 33.01 |
| LTE<br>BAND 2<br>BW: 15M<br>16QAM<br>RB: 1,74 | 1857.5                | 18675 | V            | 11.66       | 9.63         | -6.88      | 14.40        | 33.01 |
|                                               |                       |       | H            | 19.08       | 9.63         | -6.88      | 21.83        | 33.01 |
|                                               | 1880.0                | 18900 | V            | 13.81       | 9.72         | -6.92      | 16.61        | 33.01 |
|                                               |                       |       | H            | 19.80       | 9.72         | -6.92      | 22.60        | 33.01 |
|                                               | 1902.5                | 19125 | V            | 11.69       | 9.80         | -6.96      | 14.54        | 33.01 |
|                                               |                       |       | H            | 19.81       | 9.80         | -6.96      | 22.65        | 33.01 |
| LTE<br>BAND 2<br>BW: 15M<br>64QAM<br>RB: 1,0  | 1857.5                | 18675 | V            | 13.98       | 9.58         | -6.86      | 16.70        | 33.01 |
|                                               |                       |       | H            | 17.12       | 9.57         | -6.86      | 19.83        | 33.01 |
|                                               | 1880.0                | 18900 | V            | 16.27       | 9.67         | -6.90      | 19.04        | 33.01 |
|                                               |                       |       | H            | 17.55       | 9.67         | -6.90      | 20.32        | 33.01 |
|                                               | 1902.5                | 19125 | V            | 14.79       | 9.76         | -6.94      | 17.61        | 33.01 |
|                                               |                       |       | H            | 18.42       | 9.77         | -6.94      | 21.24        | 33.01 |
| LTE<br>BAND 2<br>BW: 15M<br>64QAM<br>RB: 1,74 | 1857.5                | 18675 | V            | 15.05       | 9.63         | -6.88      | 17.80        | 33.01 |
|                                               |                       |       | H            | 17.01       | 9.63         | -6.88      | 19.75        | 33.01 |
|                                               | 1880.0                | 18900 | V            | 14.37       | 9.73         | -6.93      | 17.17        | 33.01 |
|                                               |                       |       | H            | 17.84       | 9.72         | -6.92      | 20.64        | 33.01 |
|                                               | 1902.5                | 19125 | V            | 13.84       | 9.82         | -6.97      | 16.70        | 33.01 |
|                                               |                       |       | H            | 19.07       | 9.82         | -6.97      | <b>21.92</b> | 33.01 |

**Remark :** ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                           |                       |       | Measurement  |             |              |            |              |       |
|-----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                               | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 2<br>BW: 20M<br>QPSK<br>RB: 1,0   | 1860.0                | 18700 | V            | 12.47       | 9.58         | -6.86      | 15.19        | 33.01 |
|                                               |                       |       | H            | 19.10       | 9.58         | -6.86      | 21.82        | 33.01 |
|                                               | 1880.0                | 18900 | V            | 11.81       | 9.66         | -6.90      | 14.57        | 33.01 |
|                                               |                       |       | H            | 19.85       | 9.66         | -6.90      | 22.61        | 33.01 |
|                                               | 1900.0                | 19100 | V            | 11.91       | 9.74         | -6.93      | 14.72        | 33.01 |
|                                               |                       |       | H            | 20.49       | 9.74         | -6.93      | 23.30        | 33.01 |
| LTE<br>BAND 2<br>BW: 20M<br>QPSK<br>RB: 1,99  | 1860.0                | 18700 | V            | 11.61       | 9.65         | -6.89      | 14.37        | 33.01 |
|                                               |                       |       | H            | 19.52       | 9.65         | -6.89      | 22.28        | 33.01 |
|                                               | 1880.0                | 18900 | V            | 14.07       | 9.74         | -6.93      | 16.88        | 33.01 |
|                                               |                       |       | H            | 20.06       | 9.74         | -6.93      | 22.87        | 33.01 |
|                                               | 1900.0                | 19100 | V            | 11.72       | 9.82         | -6.97      | 14.57        | 33.01 |
|                                               |                       |       | H            | 20.61       | 9.82         | -6.97      | <b>23.46</b> | 33.01 |
| LTE<br>BAND 2<br>BW: 20M<br>16QAM<br>RB: 1,0  | 1860.0                | 18700 | V            | 12.51       | 9.57         | -6.86      | 15.23        | 33.01 |
|                                               |                       |       | H            | 19.13       | 9.57         | -6.86      | 21.85        | 33.01 |
|                                               | 1880.0                | 18900 | V            | 11.76       | 9.66         | -6.90      | 14.52        | 33.01 |
|                                               |                       |       | H            | 19.82       | 9.66         | -6.90      | 22.59        | 33.01 |
|                                               | 1900.0                | 19100 | V            | 14.25       | 9.74         | -6.93      | 17.06        | 33.01 |
|                                               |                       |       | H            | 20.37       | 9.74         | -6.93      | 23.18        | 33.01 |
| LTE<br>BAND 2<br>BW: 20M<br>16QAM<br>RB: 1,99 | 1860.0                | 18700 | V            | 11.54       | 9.65         | -6.89      | 14.30        | 33.01 |
|                                               |                       |       | H            | 19.56       | 9.65         | -6.89      | 22.32        | 33.01 |
|                                               | 1880.0                | 18900 | V            | 14.00       | 9.74         | -6.93      | 16.80        | 33.01 |
|                                               |                       |       | H            | 20.07       | 9.74         | -6.93      | 22.87        | 33.01 |
|                                               | 1900.0                | 19100 | V            | 11.91       | 9.82         | -6.97      | 14.76        | 33.01 |
|                                               |                       |       | H            | 20.72       | 9.82         | -6.97      | <b>23.58</b> | 33.01 |
| LTE<br>BAND 2<br>BW: 20M<br>64QAM<br>RB: 1,0  | 1860.0                | 18700 | V            | 13.39       | 9.57         | -6.86      | 16.10        | 33.01 |
|                                               |                       |       | H            | 18.68       | 9.57         | -6.86      | <b>21.40</b> | 33.01 |
|                                               | 1880.0                | 18900 | V            | 13.58       | 9.66         | -6.90      | 16.34        | 33.01 |
|                                               |                       |       | H            | 17.70       | 9.66         | -6.90      | 20.46        | 33.01 |
|                                               | 1900.0                | 19100 | V            | 12.83       | 9.75         | -6.93      | 15.65        | 33.01 |
|                                               |                       |       | H            | 18.03       | 9.75         | -6.93      | 20.84        | 33.01 |
| LTE<br>BAND 2<br>BW: 20M<br>64QAM<br>RB: 1,99 | 1860.0                | 18700 | V            | 13.44       | 9.65         | -6.89      | 16.20        | 33.01 |
|                                               |                       |       | H            | 17.29       | 9.65         | -6.89      | 20.05        | 33.01 |
|                                               | 1880.0                | 18900 | V            | 12.28       | 9.73         | -6.93      | 15.09        | 33.01 |
|                                               |                       |       | H            | 17.73       | 9.73         | -6.93      | 20.54        | 33.01 |
|                                               | 1900.0                | 19100 | V            | 12.60       | 9.82         | -6.97      | 15.45        | 33.01 |
|                                               |                       |       | H            | 17.75       | 9.82         | -6.97      | 20.60        | 33.01 |

**Remark :** ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                           |                       |       | Measurement  |             |              |            |              |       |
|-----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                               | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 4<br>BW: 1.4M<br>QPSK<br>RB: 1,0  | 1710.7                | 19957 | V            | 9.01        | 8.99         | -6.58      | 11.41        | 30.00 |
|                                               |                       |       | H            | 16.75       | 8.99         | -6.58      | 19.16        | 30.00 |
|                                               | 1732.5                | 20175 | V            | 7.11        | 9.08         | -6.62      | 9.56         | 30.00 |
|                                               |                       |       | H            | 17.03       | 9.08         | -6.62      | 19.48        | 30.00 |
|                                               | 1754.3                | 20393 | V            | 10.11       | 9.16         | -6.67      | 12.61        | 30.00 |
|                                               |                       |       | H            | 17.76       | 9.16         | -6.67      | 20.26        | 30.00 |
| LTE<br>BAND 4<br>BW: 1.4M<br>QPSK<br>RB: 1,5  | 1710.7                | 19957 | V            | 8.93        | 8.98         | -6.58      | 11.33        | 30.00 |
|                                               |                       |       | H            | 16.89       | 8.98         | -6.58      | 19.30        | 30.00 |
|                                               | 1732.5                | 20175 | V            | 7.17        | 9.08         | -6.63      | 9.63         | 30.00 |
|                                               |                       |       | H            | 16.60       | 9.08         | -6.63      | 19.06        | 30.00 |
|                                               | 1754.3                | 20393 | V            | 10.39       | 9.18         | -6.67      | 12.89        | 30.00 |
|                                               |                       |       | H            | 18.13       | 9.18         | -6.67      | <b>20.63</b> | 30.00 |
| LTE<br>BAND 4<br>BW: 1.4M<br>16QAM<br>RB: 1,0 | 1710.7                | 19957 | V            | 8.70        | 8.98         | -6.58      | 11.10        | 30.00 |
|                                               |                       |       | H            | 16.60       | 8.98         | -6.58      | 19.00        | 30.00 |
|                                               | 1732.5                | 20175 | V            | 7.16        | 9.08         | -6.63      | 9.61         | 30.00 |
|                                               |                       |       | H            | 16.91       | 9.08         | -6.63      | 19.37        | 30.00 |
|                                               | 1754.3                | 20393 | V            | 10.17       | 9.17         | -6.67      | 12.67        | 30.00 |
|                                               |                       |       | H            | 17.96       | 9.17         | -6.67      | 20.45        | 30.00 |
| LTE<br>BAND 4<br>BW: 1.4M<br>16QAM<br>RB: 1,5 | 1710.7                | 19957 | V            | 8.94        | 8.99         | -6.58      | 11.34        | 30.00 |
|                                               |                       |       | H            | 16.77       | 8.99         | -6.58      | 19.17        | 30.00 |
|                                               | 1732.5                | 20175 | V            | 7.18        | 9.08         | -6.63      | 9.63         | 30.00 |
|                                               |                       |       | H            | 16.72       | 9.08         | -6.63      | 19.18        | 30.00 |
|                                               | 1754.3                | 20393 | V            | 10.34       | 9.17         | -6.67      | 12.84        | 30.00 |
|                                               |                       |       | H            | 18.16       | 9.17         | -6.67      | <b>20.66</b> | 30.00 |
| LTE<br>BAND 4<br>BW: 1.4M<br>64QAM<br>RB: 1,0 | 1710.7                | 19957 | V            | 13.36       | 8.99         | -6.58      | 15.77        | 30.00 |
|                                               |                       |       | H            | 14.93       | 8.98         | -6.58      | 17.33        | 30.00 |
|                                               | 1732.5                | 20175 | V            | 13.64       | 9.08         | -6.63      | 16.09        | 30.00 |
|                                               |                       |       | H            | 13.73       | 9.07         | -6.62      | 16.18        | 30.00 |
|                                               | 1754.3                | 20393 | V            | 15.27       | 9.17         | -6.67      | 17.77        | 30.00 |
|                                               |                       |       | H            | 18.84       | 9.17         | -6.67      | <b>21.33</b> | 30.00 |
| LTE<br>BAND 4<br>BW: 1.4M<br>64QAM<br>RB: 1,5 | 1710.7                | 19957 | V            | 12.64       | 8.99         | -6.58      | 15.05        | 30.00 |
|                                               |                       |       | H            | 11.09       | 8.99         | -6.58      | 13.49        | 30.00 |
|                                               | 1732.5                | 20175 | V            | 13.44       | 9.08         | -6.63      | 15.89        | 30.00 |
|                                               |                       |       | H            | 11.48       | 9.08         | -6.63      | 13.94        | 30.00 |
|                                               | 1754.3                | 20393 | V            | 11.99       | 9.17         | -6.67      | 14.49        | 30.00 |
|                                               |                       |       | H            | 9.14        | 9.17         | -6.67      | 11.64        | 30.00 |

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                          |                       |       | Measurement  |             |              |            |              |       |
|----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                               | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                              | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 4<br>BW: 3M<br>QPSK<br>RB: 1,0   | 1711.5                | 19965 | V            | 8.63        | 8.98         | -6.58      | 11.03        | 30.00 |
|                                              |                       |       | H            | 16.77       | 8.98         | -6.58      | 19.18        | 30.00 |
|                                              | 1732.5                | 20175 | V            | 7.04        | 9.07         | -6.62      | 9.49         | 30.00 |
|                                              |                       |       | H            | 17.38       | 9.07         | -6.62      | 19.83        | 30.00 |
|                                              | 1753.5                | 20385 | V            | 9.69        | 9.16         | -6.67      | 12.18        | 30.00 |
|                                              |                       |       | H            | 17.33       | 9.16         | -6.67      | 19.83        | 30.00 |
| LTE<br>BAND 4<br>BW: 3M<br>QPSK<br>RB: 1,14  | 1711.5                | 19965 | V            | 8.73        | 8.99         | -6.59      | 11.14        | 30.00 |
|                                              |                       |       | H            | 17.28       | 8.99         | -6.59      | 19.69        | 30.00 |
|                                              | 1732.5                | 20175 | V            | 7.21        | 9.08         | -6.63      | 9.67         | 30.00 |
|                                              |                       |       | H            | 16.54       | 9.08         | -6.63      | 18.99        | 30.00 |
|                                              | 1753.5                | 20385 | V            | 10.37       | 9.16         | -6.67      | 12.87        | 30.00 |
|                                              |                       |       | H            | 18.26       | 9.16         | -6.67      | <b>20.75</b> | 30.00 |
| LTE<br>BAND 4<br>BW: 3M<br>16QAM<br>RB: 1,0  | 1711.5                | 19965 | V            | 8.14        | 8.99         | -6.58      | 10.54        | 30.00 |
|                                              |                       |       | H            | 16.67       | 8.99         | -6.58      | 19.07        | 30.00 |
|                                              | 1732.5                | 20175 | V            | 7.08        | 9.07         | -6.62      | 9.53         | 30.00 |
|                                              |                       |       | H            | 17.19       | 9.07         | -6.62      | 19.64        | 30.00 |
|                                              | 1753.5                | 20385 | V            | 9.50        | 9.16         | -6.66      | 11.99        | 30.00 |
|                                              |                       |       | H            | 17.20       | 9.16         | -6.66      | 19.69        | 30.00 |
| LTE<br>BAND 4<br>BW: 3M<br>16QAM<br>RB: 1,14 | 1711.5                | 19965 | V            | 8.91        | 8.99         | -6.59      | 11.32        | 30.00 |
|                                              |                       |       | H            | 17.20       | 8.99         | -6.59      | 19.60        | 30.00 |
|                                              | 1732.5                | 20175 | V            | 7.35        | 9.08         | -6.63      | 9.81         | 30.00 |
|                                              |                       |       | H            | 16.43       | 9.08         | -6.63      | 18.88        | 30.00 |
|                                              | 1753.5                | 20385 | V            | 10.23       | 9.17         | -6.67      | 12.73        | 30.00 |
|                                              |                       |       | H            | 18.08       | 9.17         | -6.67      | <b>20.59</b> | 30.00 |
| LTE<br>BAND 4<br>BW: 3M<br>64QAM<br>RB: 1,0  | 1711.5                | 19965 | V            | 9.06        | 8.98         | -6.58      | 11.47        | 30.00 |
|                                              |                       |       | H            | 7.30        | 8.98         | -6.58      | 9.70         | 30.00 |
|                                              | 1732.5                | 20175 | V            | 8.43        | 9.07         | -6.62      | 10.88        | 30.00 |
|                                              |                       |       | H            | 7.77        | 9.07         | -6.62      | 10.21        | 30.00 |
|                                              | 1753.5                | 20385 | V            | 11.28       | 9.16         | -6.67      | 13.78        | 30.00 |
|                                              |                       |       | H            | 9.08        | 9.16         | -6.67      | 11.58        | 30.00 |
| LTE<br>BAND 4<br>BW: 3M<br>64QAM<br>RB: 1,5  | 1711.5                | 19965 | V            | 9.38        | 9.00         | -6.59      | 11.79        | 30.00 |
|                                              |                       |       | H            | 7.52        | 8.99         | -6.58      | 9.93         | 30.00 |
|                                              | 1732.5                | 20175 | V            | 7.98        | 9.08         | -6.63      | 10.44        | 30.00 |
|                                              |                       |       | H            | 7.17        | 9.08         | -6.63      | 9.62         | 30.00 |
|                                              | 1753.5                | 20385 | V            | 12.07       | 9.17         | -6.67      | <b>14.57</b> | 30.00 |
|                                              |                       |       | H            | 9.17        | 9.17         | -6.67      | 11.67        | 30.00 |

Remark : (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                          |                       |       | Measurement  |             |              |            |              |       |
|----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                               | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                              | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 4<br>BW: 5M<br>QPSK<br>RB: 1,0   | 1712.5                | 19975 | V            | 8.63        | 8.99         | -6.58      | 11.04        | 30.00 |
|                                              |                       |       | H            | 16.80       | 8.99         | -6.58      | 19.20        | 30.00 |
|                                              | 1732.5                | 20175 | V            | 7.14        | 9.07         | -6.62      | 9.59         | 30.00 |
|                                              |                       |       | H            | 17.67       | 9.07         | -6.62      | 20.12        | 30.00 |
|                                              | 1752.5                | 20375 | V            | 8.80        | 9.15         | -6.66      | 11.29        | 30.00 |
|                                              |                       |       | H            | 16.39       | 9.15         | -6.66      | 18.88        | 30.00 |
| LTE<br>BAND 4<br>BW: 5M<br>QPSK<br>RB: 1,24  | 1712.5                | 19975 | V            | 10.13       | 9.00         | -6.59      | 12.54        | 30.00 |
|                                              |                       |       | H            | 17.85       | 9.00         | -6.59      | 20.26        | 30.00 |
|                                              | 1732.5                | 20175 | V            | 7.27        | 9.08         | -6.63      | 9.73         | 30.00 |
|                                              |                       |       | H            | 16.14       | 9.08         | -6.63      | 18.60        | 30.00 |
|                                              | 1752.5                | 20375 | V            | 10.25       | 9.17         | -6.67      | 12.75        | 30.00 |
|                                              |                       |       | H            | 18.41       | 9.17         | -6.67      | <b>20.91</b> | 30.00 |
| LTE<br>BAND 4<br>BW: 5M<br>16QAM<br>RB: 1,0  | 1712.5                | 19975 | V            | 8.73        | 8.98         | -6.58      | 11.14        | 30.00 |
|                                              |                       |       | H            | 16.55       | 8.98         | -6.58      | 18.95        | 30.00 |
|                                              | 1732.5                | 20175 | V            | 7.16        | 9.07         | -6.62      | 9.61         | 30.00 |
|                                              |                       |       | H            | 17.57       | 9.07         | -6.62      | 20.02        | 30.00 |
|                                              | 1752.5                | 20375 | V            | 8.85        | 9.15         | -6.66      | 11.34        | 30.00 |
|                                              |                       |       | H            | 16.31       | 9.15         | -6.66      | 18.80        | 30.00 |
| LTE<br>BAND 4<br>BW: 5M<br>16QAM<br>RB: 1,24 | 1712.5                | 19975 | V            | 10.05       | 9.00         | -6.59      | 12.46        | 30.00 |
|                                              |                       |       | H            | 17.67       | 9.00         | -6.59      | 20.08        | 30.00 |
|                                              | 1732.5                | 20175 | V            | 7.32        | 9.09         | -6.63      | 9.78         | 30.00 |
|                                              |                       |       | H            | 16.12       | 9.09         | -6.63      | 18.58        | 30.00 |
|                                              | 1752.5                | 20375 | V            | 10.22       | 9.17         | -6.67      | 12.72        | 30.00 |
|                                              |                       |       | H            | 18.02       | 9.17         | -6.67      | <b>20.52</b> | 30.00 |
| LTE<br>BAND 4<br>BW: 5M<br>64QAM<br>RB: 1,0  | 1712.5                | 19975 | V            | 9.05        | 8.99         | -6.58      | 11.46        | 30.00 |
|                                              |                       |       | H            | 7.19        | 8.99         | -6.58      | 9.60         | 30.00 |
|                                              | 1732.5                | 20175 | V            | 8.52        | 9.07         | -6.62      | 10.96        | 30.00 |
|                                              |                       |       | H            | 7.89        | 9.07         | -6.62      | 10.33        | 30.00 |
|                                              | 1752.5                | 20375 | V            | 10.16       | 9.15         | -6.66      | 12.66        | 30.00 |
|                                              |                       |       | H            | 8.51        | 9.16         | -6.66      | 11.00        | 30.00 |
| LTE<br>BAND 4<br>BW: 5M<br>64QAM<br>RB: 1,5  | 1712.5                | 19975 | V            | 9.65        | 9.01         | -6.59      | 12.07        | 30.00 |
|                                              |                       |       | H            | 7.86        | 9.00         | -6.59      | 10.28        | 30.00 |
|                                              | 1732.5                | 20175 | V            | 7.90        | 9.09         | -6.63      | 10.36        | 30.00 |
|                                              |                       |       | H            | 6.97        | 9.09         | -6.63      | 9.42         | 30.00 |
|                                              | 1752.5                | 20375 | V            | 12.06       | 9.17         | -6.67      | <b>14.56</b> | 30.00 |
|                                              |                       |       | H            | 9.05        | 9.17         | -6.67      | 11.55        | 30.00 |

Remark : (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                           |                       |       | Measurement  |             |              |            |              |       |
|-----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                               | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 4<br>BW: 10M<br>QPSK<br>RB: 1,0   | 1715.0                | 20000 | V            | 8.23        | 8.99         | -6.58      | 10.63        | 30.00 |
|                                               |                       |       | H            | 16.84       | 8.99         | -6.58      | 19.24        | 30.00 |
|                                               | 1732.0                | 20175 | V            | 7.34        | 9.06         | -6.62      | 9.78         | 30.00 |
|                                               |                       |       | H            | 18.24       | 9.06         | -6.62      | 20.68        | 30.00 |
|                                               | 1750.0                | 20350 | V            | 6.67        | 9.13         | -6.65      | 9.15         | 30.00 |
|                                               |                       |       | H            | 15.32       | 9.13         | -6.65      | 17.80        | 30.00 |
| LTE<br>BAND 4<br>BW: 10M<br>QPSK<br>RB: 1,49  | 1715.0                | 20000 | V            | 10.42       | 9.02         | -6.60      | 12.84        | 30.00 |
|                                               |                       |       | H            | 19.34       | 9.02         | -6.60      | <b>21.76</b> | 30.00 |
|                                               | 1732.0                | 20175 | V            | 7.52        | 9.09         | -6.63      | 9.98         | 30.00 |
|                                               |                       |       | H            | 15.67       | 9.09         | -6.63      | 18.13        | 30.00 |
|                                               | 1750.0                | 20350 | V            | 10.83       | 9.17         | -6.67      | 13.33        | 30.00 |
|                                               |                       |       | H            | 18.32       | 9.17         | -6.67      | 20.82        | 30.00 |
| LTE<br>BAND 4<br>BW: 10M<br>16QAM<br>RB: 1,0  | 1715.0                | 20000 | V            | 8.18        | 8.98         | -6.58      | 10.58        | 30.00 |
|                                               |                       |       | H            | 16.69       | 8.98         | -6.58      | 19.09        | 30.00 |
|                                               | 1732.0                | 20175 | V            | 7.34        | 9.06         | -6.62      | 9.78         | 30.00 |
|                                               |                       |       | H            | 18.16       | 9.06         | -6.62      | 20.61        | 30.00 |
|                                               | 1750.0                | 20350 | V            | 6.75        | 9.13         | -6.65      | 9.23         | 30.00 |
|                                               |                       |       | H            | 15.15       | 9.13         | -6.65      | 17.63        | 30.00 |
| LTE<br>BAND 4<br>BW: 10M<br>16QAM<br>RB: 1,49 | 1715.0                | 20000 | V            | 10.36       | 9.02         | -6.60      | 12.79        | 30.00 |
|                                               |                       |       | H            | 19.11       | 9.02         | -6.60      | <b>21.53</b> | 30.00 |
|                                               | 1732.0                | 20175 | V            | 7.65        | 9.09         | -6.63      | 10.12        | 30.00 |
|                                               |                       |       | H            | 15.63       | 9.09         | -6.63      | 18.09        | 30.00 |
|                                               | 1750.0                | 20350 | V            | 10.69       | 9.17         | -6.67      | 13.19        | 30.00 |
|                                               |                       |       | H            | 18.00       | 9.17         | -6.67      | 20.50        | 30.00 |
| LTE<br>BAND 4<br>BW: 10M<br>64QAM<br>RB: 1,0  | 1715.0                | 20000 | V            | 9.21        | 8.99         | -6.58      | 11.62        | 30.00 |
|                                               |                       |       | H            | 7.07        | 8.98         | -6.58      | 9.48         | 30.00 |
|                                               | 1732.0                | 20175 | V            | 8.73        | 9.06         | -6.62      | 11.17        | 30.00 |
|                                               |                       |       | H            | 8.52        | 9.05         | -6.61      | 10.96        | 30.00 |
|                                               | 1750.0                | 20350 | V            | 8.26        | 9.13         | -6.65      | 10.74        | 30.00 |
|                                               |                       |       | H            | 7.39        | 9.13         | -6.65      | 9.88         | 30.00 |
| LTE<br>BAND 4<br>BW: 10M<br>64QAM<br>RB: 1,5  | 1715.0                | 20000 | V            | 9.89        | 9.02         | -6.60      | 12.31        | 30.00 |
|                                               |                       |       | H            | 9.38        | 9.02         | -6.60      | 11.80        | 30.00 |
|                                               | 1732.0                | 20175 | V            | 7.73        | 9.10         | -6.63      | 10.19        | 30.00 |
|                                               |                       |       | H            | 6.77        | 9.10         | -6.63      | 9.23         | 30.00 |
|                                               | 1750.0                | 20350 | V            | 11.79       | 9.17         | -6.67      | <b>14.29</b> | 30.00 |
|                                               |                       |       | H            | 8.89        | 9.17         | -6.67      | 11.39        | 30.00 |

Remark : (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                           |                       |       | Measurement  |             |              |            |              |       |
|-----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                               | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 4<br>BW: 15M<br>QPSK<br>RB: 1,0   | 1717.5                | 20025 | V            | 8.34        | 8.99         | -6.58      | 10.74        | 30.00 |
|                                               |                       |       | H            | 16.89       | 8.99         | -6.58      | 19.29        | 30.00 |
|                                               | 1732.5                | 20175 | V            | 8.20        | 9.05         | -6.61      | 10.64        | 30.00 |
|                                               |                       |       | H            | 18.74       | 9.05         | -6.61      | 21.18        | 30.00 |
|                                               | 1747.5                | 20325 | V            | 6.22        | 9.12         | -6.64      | 8.69         | 30.00 |
|                                               |                       |       | H            | 14.99       | 9.12         | -6.64      | 17.46        | 30.00 |
| LTE<br>BAND 4<br>BW: 15M<br>QPSK<br>RB: 1,74  | 1717.5                | 20025 | V            | 8.87        | 9.04         | -6.61      | 11.30        | 30.00 |
|                                               |                       |       | H            | 19.12       | 9.04         | -6.61      | <b>21.55</b> | 30.00 |
|                                               | 1732.5                | 20175 | V            | 7.76        | 9.11         | -6.64      | 10.23        | 30.00 |
|                                               |                       |       | H            | 15.26       | 9.11         | -6.64      | 17.73        | 30.00 |
|                                               | 1747.5                | 20325 | V            | 10.63       | 9.17         | -6.67      | 13.13        | 30.00 |
|                                               |                       |       | H            | 18.02       | 9.17         | -6.67      | 20.52        | 30.00 |
| LTE<br>BAND 4<br>BW: 15M<br>16QAM<br>RB: 1,0  | 1717.5                | 20025 | V            | 8.22        | 8.99         | -6.58      | 10.63        | 30.00 |
|                                               |                       |       | H            | 16.75       | 8.99         | -6.58      | 19.16        | 30.00 |
|                                               | 1732.5                | 20175 | V            | 7.95        | 9.05         | -6.61      | 10.39        | 30.00 |
|                                               |                       |       | H            | 18.92       | 9.05         | -6.61      | <b>21.36</b> | 30.00 |
|                                               | 1747.5                | 20325 | V            | 6.33        | 9.11         | -6.64      | 8.80         | 30.00 |
|                                               |                       |       | H            | 15.18       | 9.11         | -6.64      | 17.65        | 30.00 |
| LTE<br>BAND 4<br>BW: 15M<br>16QAM<br>RB: 1,74 | 1717.5                | 20025 | V            | 8.97        | 9.04         | -6.61      | 11.41        | 30.00 |
|                                               |                       |       | H            | 19.04       | 9.04         | -6.61      | 21.48        | 30.00 |
|                                               | 1732.5                | 20175 | V            | 7.93        | 9.10         | -6.64      | 10.39        | 30.00 |
|                                               |                       |       | H            | 15.20       | 9.10         | -6.64      | 17.67        | 30.00 |
|                                               | 1747.5                | 20325 | V            | 10.31       | 9.17         | -6.67      | 12.81        | 30.00 |
|                                               |                       |       | H            | 17.58       | 9.17         | -6.67      | 20.08        | 30.00 |
| LTE<br>BAND 4<br>BW: 15M<br>64QAM<br>RB: 1,0  | 1717.5                | 20025 | V            | 9.06        | 8.99         | -6.58      | 11.47        | 30.00 |
|                                               |                       |       | H            | 7.08        | 8.99         | -6.58      | 9.49         | 30.00 |
|                                               | 1732.5                | 20175 | V            | 8.87        | 9.05         | -6.61      | 11.30        | 30.00 |
|                                               |                       |       | H            | 8.92        | 9.05         | -6.61      | 11.36        | 30.00 |
|                                               | 1747.5                | 20325 | V            | 7.52        | 9.11         | -6.64      | 9.99         | 30.00 |
|                                               |                       |       | H            | 6.91        | 9.11         | -6.64      | 9.38         | 30.00 |
| LTE<br>BAND 4<br>BW: 15M<br>64QAM<br>RB: 1,5  | 1717.5                | 20025 | V            | 9.09        | 9.04         | -6.61      | 11.52        | 30.00 |
|                                               |                       |       | H            | 9.21        | 9.04         | -6.61      | 11.65        | 30.00 |
|                                               | 1732.5                | 20175 | V            | 7.46        | 9.10         | -6.64      | 9.92         | 30.00 |
|                                               |                       |       | H            | 6.75        | 9.11         | -6.64      | 9.22         | 30.00 |
|                                               | 1747.5                | 20325 | V            | 11.72       | 9.17         | -6.67      | <b>14.22</b> | 30.00 |
|                                               |                       |       | H            | 8.76        | 9.17         | -6.67      | 11.26        | 30.00 |

Remark : (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                           |                       |       | Measurement  |             |              |            |              |       |
|-----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                               | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 4<br>BW: 20M<br>QPSK<br>RB: 1,0   | 1720.0                | 20050 | V            | 8.28        | 8.99         | -6.58      | 10.69        | 30.00 |
|                                               |                       |       | H            | 16.65       | 8.99         | -6.58      | 19.05        | 30.00 |
|                                               | 1732.5                | 20175 | V            | 8.98        | 9.04         | -6.61      | 11.41        | 30.00 |
|                                               |                       |       | H            | 19.15       | 9.04         | -6.61      | <b>21.58</b> | 30.00 |
|                                               | 1745.0                | 20300 | V            | 6.04        | 9.09         | -6.63      | 8.49         | 30.00 |
|                                               |                       |       | H            | 15.89       | 9.09         | -6.63      | 18.35        | 30.00 |
| LTE<br>BAND 4<br>BW: 20M<br>QPSK<br>RB: 1,99  | 1720.0                | 20050 | V            | 7.30        | 9.06         | -6.62      | 9.74         | 30.00 |
|                                               |                       |       | H            | 17.85       | 9.06         | -6.62      | 20.29        | 30.00 |
|                                               | 1732.5                | 20175 | V            | 7.90        | 9.11         | -6.64      | 10.37        | 30.00 |
|                                               |                       |       | H            | 14.84       | 9.11         | -6.64      | 17.31        | 30.00 |
|                                               | 1745.0                | 20300 | V            | 10.05       | 9.16         | -6.67      | 12.54        | 30.00 |
|                                               |                       |       | H            | 17.43       | 9.16         | -6.67      | 19.92        | 30.00 |
| LTE<br>BAND 4<br>BW: 20M<br>16QAM<br>RB: 1,0  | 1720.0                | 20050 | V            | 7.58        | 8.99         | -6.58      | 9.99         | 30.00 |
|                                               |                       |       | H            | 16.75       | 8.99         | -6.58      | 19.15        | 30.00 |
|                                               | 1732.5                | 20175 | V            | 8.99        | 9.05         | -6.61      | 11.43        | 30.00 |
|                                               |                       |       | H            | 19.25       | 9.05         | -6.61      | <b>21.68</b> | 30.00 |
|                                               | 1745.0                | 20300 | V            | 5.95        | 9.09         | -6.63      | 8.41         | 30.00 |
|                                               |                       |       | H            | 15.50       | 9.09         | -6.63      | 17.96        | 30.00 |
| LTE<br>BAND 4<br>BW: 20M<br>16QAM<br>RB: 1,99 | 1720.0                | 20050 | V            | 7.99        | 9.06         | -6.62      | 10.44        | 30.00 |
|                                               |                       |       | H            | 17.93       | 9.06         | -6.62      | 20.37        | 30.00 |
|                                               | 1732.5                | 20175 | V            | 8.02        | 9.11         | -6.64      | 10.49        | 30.00 |
|                                               |                       |       | H            | 15.02       | 9.11         | -6.64      | 17.49        | 30.00 |
|                                               | 1745.0                | 20300 | V            | 10.12       | 9.17         | -6.67      | 12.62        | 30.00 |
|                                               |                       |       | H            | 17.67       | 9.17         | -6.67      | 20.17        | 30.00 |
| LTE<br>BAND 4<br>BW: 20M<br>64QAM<br>RB: 1,0  | 1720.0                | 20050 | V            | 8.91        | 8.99         | -6.58      | 11.32        | 30.00 |
|                                               |                       |       | H            | 6.79        | 8.99         | -6.58      | 9.20         | 30.00 |
|                                               | 1732.5                | 20175 | V            | 9.30        | 9.04         | -6.61      | 11.73        | 30.00 |
|                                               |                       |       | H            | 8.92        | 9.04         | -6.61      | 11.35        | 30.00 |
|                                               | 1745.0                | 20300 | V            | 7.60        | 9.09         | -6.63      | 10.06        | 30.00 |
|                                               |                       |       | H            | 6.49        | 9.09         | -6.63      | 8.95         | 30.00 |
| LTE<br>BAND 4<br>BW: 20M<br>64QAM<br>RB: 1,5  | 1720.0                | 20050 | V            | 9.27        | 9.06         | -6.62      | 11.72        | 30.00 |
|                                               |                       |       | H            | 7.87        | 9.06         | -6.62      | 10.32        | 30.00 |
|                                               | 1732.5                | 20175 | V            | 8.15        | 9.11         | -6.64      | 10.62        | 30.00 |
|                                               |                       |       | H            | 6.53        | 9.11         | -6.64      | 9.00         | 30.00 |
|                                               | 1745.0                | 20300 | V            | 12.14       | 9.17         | -6.67      | <b>14.64</b> | 30.00 |
|                                               |                       |       | H            | 8.05        | 9.16         | -6.67      | 10.55        | 30.00 |

Remark : (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|-----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
|                                               | MHz                   |       | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| LTE<br>BAND 5<br>BW: 1.4M<br>QPSK<br>RB: 1,0  | 824.7                 | 20407 | V            | 16.81       | 5.14         | -5.43      | 16.52        | 38.45 |
|                                               |                       |       | H            | 25.66       | 5.14         | -5.43      | 25.37        | 38.45 |
|                                               | 836.5                 | 20525 | V            | 19.00       | 5.10         | -5.46      | 18.64        | 38.45 |
|                                               |                       |       | H            | 27.90       | 5.10         | -5.46      | <b>27.54</b> | 38.45 |
|                                               | 848.3                 | 20643 | V            | 15.98       | 5.06         | -5.50      | 15.54        | 38.45 |
|                                               |                       |       | H            | 25.64       | 5.06         | -5.50      | 25.20        | 38.45 |
| LTE<br>BAND 5<br>BW: 1.4M<br>QPSK<br>RB: 1,5  | 824.7                 | 20407 | V            | 16.83       | 5.13         | -5.43      | 16.53        | 38.45 |
|                                               |                       |       | H            | 20.18       | 5.13         | -5.43      | 19.88        | 38.45 |
|                                               | 836.5                 | 20525 | V            | 18.55       | 5.10         | -5.47      | 18.18        | 38.45 |
|                                               |                       |       | H            | 20.31       | 5.10         | -5.47      | 19.94        | 38.45 |
|                                               | 848.3                 | 20643 | V            | 16.56       | 5.10         | -5.51      | 16.15        | 38.45 |
|                                               |                       |       | H            | 25.10       | 5.10         | -5.51      | 24.69        | 38.45 |
| LTE<br>BAND 5<br>BW: 1.4M<br>16QAM<br>RB: 1,0 | 824.7                 | 20407 | V            | 16.67       | 5.14         | -5.43      | 16.38        | 38.45 |
|                                               |                       |       | H            | 25.40       | 5.14         | -5.43      | 25.11        | 38.45 |
|                                               | 836.5                 | 20525 | V            | 18.87       | 5.10         | -5.47      | 18.50        | 38.45 |
|                                               |                       |       | H            | 28.00       | 5.10         | -5.47      | <b>27.63</b> | 38.45 |
|                                               | 848.3                 | 20643 | V            | 17.45       | 5.10         | -5.51      | 17.04        | 38.45 |
|                                               |                       |       | H            | 25.74       | 5.10         | -5.51      | 25.33        | 38.45 |
| LTE<br>BAND 5<br>BW: 1.4M<br>16QAM<br>RB: 1,5 | 824.7                 | 20407 | V            | 16.71       | 5.14         | -5.43      | 16.42        | 38.45 |
|                                               |                       |       | H            | 25.06       | 5.14         | -5.43      | 24.77        | 38.45 |
|                                               | 836.5                 | 20525 | V            | 18.37       | 5.09         | -5.47      | 17.99        | 38.45 |
|                                               |                       |       | H            | 27.64       | 5.09         | -5.47      | 27.26        | 38.45 |
|                                               | 848.3                 | 20643 | V            | 16.79       | 5.06         | -5.51      | 16.34        | 38.45 |
|                                               |                       |       | H            | 25.20       | 5.06         | -5.51      | 24.75        | 38.45 |
| LTE<br>BAND 5<br>BW: 1.4M<br>64QAM<br>RB: 1,0 | 824.7                 | 20407 | V            | 17.85       | 5.14         | -5.43      | 17.56        | 38.45 |
|                                               |                       |       | H            | 24.18       | 5.13         | -5.43      | 23.89        | 38.45 |
|                                               | 836.5                 | 20525 | V            | 11.95       | 5.10         | -5.47      | 11.58        | 38.45 |
|                                               |                       |       | H            | 17.31       | 5.10         | -5.47      | 16.94        | 38.45 |
|                                               | 848.3                 | 20643 | V            | 20.44       | 5.06         | -5.51      | 19.99        | 38.45 |
|                                               |                       |       | H            | 25.60       | 5.06         | -5.51      | 25.15        | 38.45 |
| LTE<br>BAND 5<br>BW: 1.4M<br>64QAM<br>RB: 1,5 | 824.7                 | 20407 | V            | 13.31       | 5.14         | -5.43      | 13.02        | 38.45 |
|                                               |                       |       | H            | 16.01       | 5.13         | -5.43      | 15.71        | 38.45 |
|                                               | 836.5                 | 20525 | V            | 21.86       | 5.09         | -5.47      | 21.49        | 38.45 |
|                                               |                       |       | H            | 27.02       | 5.09         | -5.47      | <b>26.64</b> | 38.45 |
|                                               | 848.3                 | 20643 | V            | 19.92       | 5.06         | -5.51      | 19.47        | 38.45 |
|                                               |                       |       | H            | 24.32       | 5.05         | -5.52      | 23.85        | 38.45 |

**Remark :** A for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                          |                       |       | Measurement  |             |              |            |              |       |
|----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                               | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                                              | MHz                   |       | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| LTE<br>BAND 5<br>BW: 3M<br>QPSK<br>RB: 1,0   | 825.5                 | 20415 | V            | 16.53       | 5.14         | -5.43      | 16.24        | 38.45 |
|                                              |                       |       | H            | 24.94       | 5.14         | -5.43      | 24.65        | 38.45 |
|                                              | 836.5                 | 20525 | V            | 18.58       | 5.10         | -5.45      | 18.23        | 38.45 |
|                                              |                       |       | H            | 27.48       | 5.10         | -5.45      | <b>27.13</b> | 38.45 |
|                                              | 847.5                 | 20635 | V            | 18.46       | 5.06         | -5.50      | 18.02        | 38.45 |
|                                              |                       |       | H            | 26.56       | 5.06         | -5.50      | 26.12        | 38.45 |
| LTE<br>BAND 5<br>BW: 3M<br>QPSK<br>RB: 1,14  | 825.5                 | 20415 | V            | 17.20       | 5.13         | -5.44      | 16.89        | 38.45 |
|                                              |                       |       | H            | 20.69       | 5.13         | -5.44      | 20.38        | 38.45 |
|                                              | 836.5                 | 20525 | V            | 18.30       | 5.09         | -5.47      | 17.92        | 38.45 |
|                                              |                       |       | H            | 26.41       | 5.09         | -5.47      | 26.03        | 38.45 |
|                                              | 847.5                 | 20635 | V            | 16.89       | 5.06         | -5.50      | 16.45        | 38.45 |
|                                              |                       |       | H            | 25.02       | 5.06         | -5.50      | 24.58        | 38.45 |
| LTE<br>BAND 5<br>BW: 3M<br>16QAM<br>RB: 1,0  | 825.5                 | 20415 | V            | 16.39       | 5.14         | -5.43      | 16.10        | 38.45 |
|                                              |                       |       | H            | 24.94       | 5.14         | -5.43      | 24.65        | 38.45 |
|                                              | 836.5                 | 20525 | V            | 18.87       | 5.10         | -5.47      | 18.50        | 38.45 |
|                                              |                       |       | H            | 27.13       | 5.10         | -5.47      | 26.76        | 38.45 |
|                                              | 847.5                 | 20635 | V            | 18.55       | 5.06         | -5.51      | 18.10        | 38.45 |
|                                              |                       |       | H            | 26.02       | 5.06         | -5.51      | 25.57        | 38.45 |
| LTE<br>BAND 5<br>BW: 3M<br>16QAM<br>RB: 1,14 | 825.5                 | 20415 | V            | 17.40       | 5.13         | -5.44      | 17.09        | 38.45 |
|                                              |                       |       | H            | 25.54       | 5.13         | -5.44      | 25.23        | 38.45 |
|                                              | 836.5                 | 20525 | V            | 18.31       | 5.09         | -5.47      | 17.93        | 38.45 |
|                                              |                       |       | H            | 27.37       | 5.09         | -5.47      | <b>26.99</b> | 38.45 |
|                                              | 847.5                 | 20635 | V            | 16.54       | 5.06         | -5.51      | 16.09        | 38.45 |
|                                              |                       |       | H            | 25.24       | 5.06         | -5.51      | 24.79        | 38.45 |
| LTE<br>BAND 5<br>BW: 3M<br>64QAM<br>RB: 1,0  | 825.5                 | 20415 | V            | 20.45       | 5.14         | -5.43      | 20.16        | 38.45 |
|                                              |                       |       | H            | 23.83       | 5.13         | -5.43      | 23.53        | 38.45 |
|                                              | 836.5                 | 20525 | V            | 21.80       | 5.10         | -5.46      | 21.44        | 38.45 |
|                                              |                       |       | H            | 26.30       | 5.10         | -5.47      | <b>25.93</b> | 38.45 |
|                                              | 847.5                 | 20635 | V            | 21.53       | 5.06         | -5.50      | 21.09        | 38.45 |
|                                              |                       |       | H            | 26.06       | 5.06         | -5.50      | 25.62        | 38.45 |
| LTE<br>BAND 5<br>BW: 3M<br>64QAM<br>RB: 1,14 | 825.5                 | 20415 | V            | 20.79       | 5.13         | -5.44      | 20.48        | 38.45 |
|                                              |                       |       | H            | 24.51       | 5.13         | -5.44      | 24.20        | 38.45 |
|                                              | 836.5                 | 20525 | V            | 21.71       | 5.09         | -5.47      | 21.32        | 38.45 |
|                                              |                       |       | H            | 26.12       | 5.09         | -5.47      | 25.74        | 38.45 |
|                                              | 847.5                 | 20635 | V            | 19.99       | 5.06         | -5.51      | 19.53        | 38.45 |
|                                              |                       |       | H            | 24.46       | 5.05         | -5.52      | 24.00        | 38.45 |

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| EUT                                          |                       |       | Measurement  |             |              |            |              |       |
|----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                               | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                                              | MHz                   |       | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| LTE<br>BAND 5<br>BW: 5M<br>QPSK<br>RB: 1,0   | 826.5                 | 20425 | V            | 16.79       | 5.14         | -5.43      | 16.50        | 38.45 |
|                                              |                       |       | H            | 25.43       | 5.14         | -5.43      | 25.14        | 38.45 |
|                                              | 836.5                 | 20525 | V            | 18.97       | 5.10         | -5.46      | 18.61        | 38.45 |
|                                              |                       |       | H            | 26.94       | 5.10         | -5.46      | <b>26.58</b> | 38.45 |
|                                              | 846.5                 | 20625 | V            | 17.76       | 5.07         | -5.50      | 17.33        | 38.45 |
|                                              |                       |       | H            | 26.14       | 5.07         | -5.50      | 25.71        | 38.45 |
| LTE<br>BAND 5<br>BW: 5M<br>QPSK<br>RB: 1,24  | 826.5                 | 20425 | V            | 17.87       | 5.12         | -5.44      | 17.55        | 38.45 |
|                                              |                       |       | H            | 26.90       | 5.12         | -5.44      | 26.58        | 38.45 |
|                                              | 836.5                 | 20525 | V            | 18.70       | 5.09         | -5.48      | 18.31        | 38.45 |
|                                              |                       |       | H            | 26.43       | 5.09         | -5.48      | 26.04        | 38.45 |
|                                              | 846.5                 | 20625 | V            | 17.90       | 5.05         | -5.51      | 17.44        | 38.45 |
|                                              |                       |       | H            | 25.18       | 5.05         | -5.51      | 24.72        | 38.45 |
| LTE<br>BAND 5<br>BW: 5M<br>16QAM<br>RB: 1,0  | 826.5                 | 20425 | V            | 16.96       | 5.14         | -5.43      | 16.67        | 38.45 |
|                                              |                       |       | H            | 25.50       | 5.14         | -5.43      | 25.21        | 38.45 |
|                                              | 836.5                 | 20525 | V            | 27.67       | 5.10         | -5.46      | <b>27.31</b> | 38.45 |
|                                              |                       |       | H            | 19.39       | 5.10         | -5.46      | 19.03        | 38.45 |
|                                              | 846.5                 | 20625 | V            | 18.15       | 5.07         | -5.50      | 17.72        | 38.45 |
|                                              |                       |       | H            | 26.12       | 5.07         | -5.50      | 25.69        | 38.45 |
| LTE<br>BAND 5<br>BW: 5M<br>16QAM<br>RB: 1,24 | 826.5                 | 20425 | V            | 18.62       | 5.12         | -5.44      | 18.30        | 38.45 |
|                                              |                       |       | H            | 27.01       | 5.12         | -5.44      | 26.69        | 38.45 |
|                                              | 836.5                 | 20525 | V            | 18.27       | 5.09         | -5.47      | 17.89        | 38.45 |
|                                              |                       |       | H            | 26.19       | 5.09         | -5.47      | 25.81        | 38.45 |
|                                              | 846.5                 | 20625 | V            | 17.45       | 5.57         | -5.51      | 17.51        | 38.45 |
|                                              |                       |       | H            | 25.32       | 5.57         | -5.51      | 25.38        | 38.45 |
| LTE<br>BAND 5<br>BW: 5M<br>64QAM<br>RB: 1,0  | 826.5                 | 20425 | V            | 20.51       | 5.14         | -5.43      | 20.21        | 38.45 |
|                                              |                       |       | H            | 24.97       | 5.14         | -5.43      | 24.68        | 38.45 |
|                                              | 836.5                 | 20525 | V            | 21.89       | 5.10         | -5.46      | 21.54        | 38.45 |
|                                              |                       |       | H            | 26.10       | 5.11         | -5.46      | 25.75        | 38.45 |
|                                              | 846.5                 | 20625 | V            | 20.63       | 5.07         | -5.50      | 20.21        | 38.45 |
|                                              |                       |       | H            | 25.16       | 5.07         | -5.50      | 24.73        | 38.45 |
| LTE<br>BAND 5<br>BW: 5M<br>64QAM<br>RB: 1,24 | 826.5                 | 20425 | V            | 21.69       | 5.12         | -5.45      | 21.37        | 38.45 |
|                                              |                       |       | H            | 25.48       | 5.12         | -5.44      | 25.16        | 38.45 |
|                                              | 836.5                 | 20525 | V            | 21.57       | 5.09         | -5.48      | 21.19        | 38.45 |
|                                              |                       |       | H            | 27.95       | 5.09         | -5.48      | <b>27.56</b> | 38.45 |
|                                              | 846.5                 | 20625 | V            | 20.13       | 5.06         | -5.51      | 19.68        | 38.45 |
|                                              |                       |       | H            | 24.49       | 5.06         | -5.51      | 24.03        | 38.45 |

Remark : A for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                           |                       |       | Measurement  |             |              |            |              |       |
|-----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                                               | MHz                   |       | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| LTE<br>BAND 5<br>BW: 10M<br>QPSK<br>RB: 1,0   | 829.0                 | 20450 | V            | 16.78       | 5.14         | -5.43      | 16.49        | 38.45 |
|                                               |                       |       | H            | 25.01       | 5.14         | -5.43      | 24.72        | 38.45 |
|                                               | 836.5                 | 20525 | V            | 18.85       | 5.11         | -5.46      | 18.50        | 38.45 |
|                                               |                       |       | H            | 27.26       | 5.11         | -5.46      | <b>26.91</b> | 38.45 |
|                                               | 844.0                 | 20600 | V            | 18.00       | 5.09         | -5.48      | 17.61        | 38.45 |
|                                               |                       |       | H            | 25.76       | 5.09         | -5.48      | 25.37        | 38.45 |
| LTE<br>BAND 5<br>BW: 10M<br>QPSK<br>RB: 1,49  | 829.0                 | 20450 | V            | 17.78       | 5.11         | -5.46      | 17.43        | 38.45 |
|                                               |                       |       | H            | 26.32       | 5.11         | -5.46      | 25.97        | 38.45 |
|                                               | 836.5                 | 20525 | V            | 18.51       | 5.08         | -5.48      | 18.11        | 38.45 |
|                                               |                       |       | H            | 27.03       | 5.08         | -5.48      | 26.63        | 38.45 |
|                                               | 844.0                 | 20600 | V            | 17.12       | 5.06         | -5.51      | 16.67        | 38.45 |
|                                               |                       |       | H            | 24.45       | 5.06         | -5.51      | 24.00        | 38.45 |
| LTE<br>BAND 5<br>BW: 10M<br>16QAM<br>RB: 1,0  | 829.0                 | 20450 | V            | 17.09       | 5.14         | -5.43      | 16.80        | 38.45 |
|                                               |                       |       | H            | 24.91       | 5.14         | -5.43      | 24.62        | 38.45 |
|                                               | 836.5                 | 20525 | V            | 17.62       | 5.11         | -5.46      | 17.27        | 38.45 |
|                                               |                       |       | H            | 25.62       | 5.11         | -5.46      | 25.27        | 38.45 |
|                                               | 844.0                 | 20600 | V            | 17.04       | 5.09         | -5.48      | 16.65        | 38.45 |
|                                               |                       |       | H            | 26.29       | 5.09         | -5.48      | <b>25.90</b> | 38.45 |
| LTE<br>BAND 5<br>BW: 10M<br>16QAM<br>RB: 1,49 | 829.0                 | 20450 | V            | 17.08       | 5.11         | -5.46      | 16.73        | 38.45 |
|                                               |                       |       | H            | 25.78       | 5.11         | -5.46      | 25.43        | 38.45 |
|                                               | 836.5                 | 20525 | V            | 18.94       | 5.08         | -5.48      | 18.54        | 38.45 |
|                                               |                       |       | H            | 26.28       | 5.08         | -5.48      | 25.88        | 38.45 |
|                                               | 844.0                 | 20600 | V            | 17.47       | 5.06         | -5.51      | 17.02        | 38.45 |
|                                               |                       |       | H            | 24.72       | 5.06         | -5.51      | 24.27        | 38.45 |
| LTE<br>BAND 5<br>BW: 10M<br>64QAM<br>RB: 1,0  | 829.0                 | 20450 | V            | 20.49       | 5.14         | -5.43      | 20.20        | 38.45 |
|                                               |                       |       | H            | 25.09       | 5.14         | -5.43      | 24.79        | 38.45 |
|                                               | 836.5                 | 20525 | V            | 20.71       | 5.11         | -5.45      | 20.37        | 38.45 |
|                                               |                       |       | H            | 25.42       | 5.11         | -5.45      | 25.08        | 38.45 |
|                                               | 844.0                 | 20600 | V            | 21.46       | 5.09         | -5.48      | 21.07        | 38.45 |
|                                               |                       |       | H            | 25.76       | 5.08         | -5.48      | 25.37        | 38.45 |
| LTE<br>BAND 5<br>BW: 10M<br>64QAM<br>RB: 1,49 | 829.0                 | 20450 | V            | 20.75       | 5.11         | -5.46      | 20.40        | 38.45 |
|                                               |                       |       | H            | 24.94       | 5.11         | -5.46      | 24.59        | 38.45 |
|                                               | 836.5                 | 20525 | V            | 21.54       | 5.08         | -5.48      | 21.14        | 38.45 |
|                                               |                       |       | H            | 25.87       | 5.08         | -5.48      | <b>25.47</b> | 38.45 |
|                                               | 844.0                 | 20600 | V            | 20.17       | 5.06         | -5.51      | 19.72        | 38.45 |
|                                               |                       |       | H            | 24.57       | 5.06         | -5.51      | 24.11        | 38.45 |

Remark : A for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                            |                       |       | Measurement  |             |              |            |              |       |
|------------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                                                | MHz                   |       | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| LTE<br>BAND 12<br>BW: 1.4M<br>QPSK<br>RB: 1,0  | 699.7                 | 23017 | V            | 14.61       | 5.06         | -3.82      | 15.85        | 34.77 |
|                                                |                       |       | H            | 18.93       | 5.06         | -3.82      | 20.17        | 34.77 |
|                                                | 707.5                 | 23095 | V            | 17.02       | 5.07         | -3.84      | 18.25        | 34.77 |
|                                                |                       |       | H            | 20.60       | 5.07         | -3.84      | 21.83        | 34.77 |
|                                                | 715.3                 | 23173 | V            | 15.58       | 5.09         | -3.87      | 16.80        | 34.77 |
|                                                |                       |       | H            | 20.86       | 5.09         | -3.87      | 22.09        | 34.77 |
| LTE<br>BAND 12<br>BW: 1.4M<br>QPSK<br>RB: 1,5  | 699.7                 | 23017 | V            | 14.76       | 5.06         | -3.82      | 16.00        | 34.77 |
|                                                |                       |       | H            | 19.36       | 5.06         | -3.82      | 20.60        | 34.77 |
|                                                | 707.5                 | 23095 | V            | 16.90       | 5.08         | -3.84      | 18.13        | 34.77 |
|                                                |                       |       | H            | 21.45       | 5.08         | -3.84      | 22.68        | 34.77 |
|                                                | 715.3                 | 23173 | V            | 15.88       | 5.09         | -3.87      | 17.10        | 34.77 |
|                                                |                       |       | H            | 21.50       | 5.09         | -3.87      | <b>22.72</b> | 34.77 |
| LTE<br>BAND 12<br>BW: 1.4M<br>16QAM<br>RB: 1,0 | 699.7                 | 23017 | V            | 14.16       | 5.06         | -3.82      | 15.40        | 34.77 |
|                                                |                       |       | H            | 17.21       | 5.06         | -3.82      | 18.44        | 34.77 |
|                                                | 707.5                 | 23095 | V            | 15.46       | 5.08         | -3.85      | 16.69        | 34.77 |
|                                                |                       |       | H            | 20.22       | 5.08         | -3.85      | 21.45        | 34.77 |
|                                                | 715.3                 | 23173 | V            | 15.24       | 5.09         | -3.87      | 16.47        | 34.77 |
|                                                |                       |       | H            | 20.95       | 5.09         | -3.87      | 22.18        | 34.77 |
| LTE<br>BAND 12<br>BW: 1.4M<br>16QAM<br>RB: 1,5 | 699.7                 | 23017 | V            | 14.83       | 5.06         | -3.82      | 16.07        | 34.77 |
|                                                |                       |       | H            | 18.83       | 5.06         | -3.82      | 20.07        | 34.77 |
|                                                | 707.5                 | 23095 | V            | 17.21       | 5.08         | -3.85      | 18.44        | 34.77 |
|                                                |                       |       | H            | 21.66       | 5.08         | -3.85      | <b>22.90</b> | 34.77 |
|                                                | 715.3                 | 23173 | V            | 15.78       | 5.09         | -3.87      | 17.00        | 34.77 |
|                                                |                       |       | H            | 20.95       | 5.09         | -3.87      | 22.18        | 34.77 |
| LTE<br>BAND 12<br>BW: 1.4M<br>64QAM<br>RB: 1,0 | 699.7                 | 23017 | V            | 12.01       | 5.05         | -3.82      | 13.24        | 34.77 |
|                                                |                       |       | H            | 19.49       | 5.05         | -3.82      | <b>20.72</b> | 34.77 |
|                                                | 707.5                 | 23095 | V            | 12.70       | 5.07         | -3.84      | 13.93        | 34.77 |
|                                                |                       |       | H            | 18.68       | 5.07         | -3.84      | 19.92        | 34.77 |
|                                                | 715.3                 | 23173 | V            | 11.68       | 5.09         | -3.86      | 12.90        | 34.77 |
|                                                |                       |       | H            | 18.75       | 5.09         | -3.87      | 19.98        | 34.77 |
| LTE<br>BAND 12<br>BW: 1.4M<br>64QAM<br>RB: 1,5 | 699.7                 | 23017 | V            | 12.34       | 5.06         | -3.82      | 13.58        | 34.77 |
|                                                |                       |       | H            | 19.28       | 5.06         | -3.82      | 20.52        | 34.77 |
|                                                | 707.5                 | 23095 | V            | 13.94       | 5.08         | -3.84      | 15.17        | 34.77 |
|                                                |                       |       | H            | 18.82       | 5.08         | -3.84      | 20.05        | 34.77 |
|                                                | 715.3                 | 23173 | V            | 12.03       | 5.09         | -3.87      | 13.26        | 34.77 |
|                                                |                       |       | H            | 19.41       | 5.09         | -3.87      | 20.64        | 34.77 |

**Remark :** ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                           |                       |       | Measurement  |             |              |            |              |       |
|-----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                                               | MHz                   |       | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| LTE<br>BAND 12<br>BW: 3M<br>QPSK<br>RB: 1,0   | 700.5                 | 23025 | V            | 14.46       | 5.05         | -3.82      | 15.69        | 34.77 |
|                                               |                       |       | H            | 18.86       | 5.05         | -3.82      | 20.09        | 34.77 |
|                                               | 707.5                 | 23095 | V            | 15.54       | 5.07         | -3.84      | 16.77        | 34.77 |
|                                               |                       |       | H            | 19.83       | 5.07         | -3.84      | 21.06        | 34.77 |
|                                               | 714.5                 | 23165 | V            | 14.55       | 5.09         | -3.86      | 15.78        | 34.77 |
|                                               |                       |       | H            | 20.40       | 5.09         | -3.86      | 21.62        | 34.77 |
| LTE<br>BAND 12<br>BW: 3M<br>QPSK<br>RB: 1,14  | 700.5                 | 23025 | V            | 15.67       | 5.06         | -3.83      | 16.91        | 34.77 |
|                                               |                       |       | H            | 20.06       | 5.06         | -3.83      | 21.30        | 34.77 |
|                                               | 707.5                 | 23095 | V            | 16.55       | 5.08         | -3.85      | 17.78        | 34.77 |
|                                               |                       |       | H            | 21.42       | 5.08         | -3.85      | 22.65        | 34.77 |
|                                               | 714.5                 | 23165 | V            | 15.90       | 5.09         | -3.87      | 17.12        | 34.77 |
|                                               |                       |       | H            | 21.51       | 5.09         | -3.87      | <b>22.74</b> | 34.77 |
| LTE<br>BAND 12<br>BW: 3M<br>16QAM<br>RB: 1,0  | 700.5                 | 23025 | V            | 14.30       | 5.05         | -3.82      | 15.54        | 34.77 |
|                                               |                       |       | H            | 18.96       | 5.05         | -3.82      | 20.20        | 34.77 |
|                                               | 707.5                 | 23095 | V            | 15.66       | 5.07         | -3.84      | 16.90        | 34.77 |
|                                               |                       |       | H            | 20.15       | 5.07         | -3.84      | 21.38        | 34.77 |
|                                               | 714.5                 | 23165 | V            | 14.74       | 5.09         | -3.86      | 15.97        | 34.77 |
|                                               |                       |       | H            | 20.42       | 5.09         | -3.86      | 21.64        | 34.77 |
| LTE<br>BAND 12<br>BW: 3M<br>16QAM<br>RB: 1,14 | 700.5                 | 23025 | V            | 15.70       | 5.06         | -3.82      | 16.94        | 34.77 |
|                                               |                       |       | H            | 19.75       | 5.06         | -3.82      | 20.99        | 34.77 |
|                                               | 707.5                 | 23095 | V            | 16.66       | 5.08         | -3.85      | 17.89        | 34.77 |
|                                               |                       |       | H            | 21.50       | 5.08         | -3.85      | <b>22.73</b> | 34.77 |
|                                               | 714.5                 | 23165 | V            | 16.16       | 5.09         | -3.87      | 17.39        | 34.77 |
|                                               |                       |       | H            | 21.18       | 5.09         | -3.87      | 22.40        | 34.77 |
| LTE<br>BAND 12<br>BW: 3M<br>64QAM<br>RB: 1,0  | 700.5                 | 23025 | V            | 8.54        | 5.05         | -3.82      | 9.77         | 34.77 |
|                                               |                       |       | H            | 14.91       | 5.05         | -3.82      | 16.15        | 34.77 |
|                                               | 707.5                 | 23095 | V            | 10.32       | 5.07         | -3.84      | 11.55        | 34.77 |
|                                               |                       |       | H            | 17.20       | 5.07         | -3.84      | 18.44        | 34.77 |
|                                               | 714.5                 | 23165 | V            | 10.76       | 5.09         | -3.86      | 11.99        | 34.77 |
|                                               |                       |       | H            | 17.78       | 5.09         | -3.86      | 19.00        | 34.77 |
| LTE<br>BAND 12<br>BW: 3M<br>64QAM<br>RB: 1,14 | 700.5                 | 23025 | V            | 10.28       | 5.06         | -3.83      | 11.52        | 34.77 |
|                                               |                       |       | H            | 16.85       | 5.06         | -3.83      | 18.08        | 34.77 |
|                                               | 707.5                 | 23095 | V            | 11.94       | 5.08         | -3.85      | 13.17        | 34.77 |
|                                               |                       |       | H            | 18.65       | 5.08         | -3.84      | 19.88        | 34.77 |
|                                               | 714.5                 | 23165 | V            | 11.89       | 5.09         | -3.87      | 13.11        | 34.77 |
|                                               |                       |       | H            | 19.43       | 5.09         | -3.87      | <b>20.65</b> | 34.77 |

**Remark :** (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                           |                       |       | Measurement  |             |              |            |              |       |
|-----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                                               | MHz                   |       | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| LTE<br>BAND 12<br>BW: 5M<br>QPSK<br>RB: 1,0   | 701.5                 | 23035 | V            | 13.85       | 5.05         | -3.82      | 15.09        | 34.77 |
|                                               |                       |       | H            | 18.92       | 5.05         | -3.82      | 20.16        | 34.77 |
|                                               | 707.5                 | 23095 | V            | 16.65       | 5.07         | -3.84      | 17.89        | 34.77 |
|                                               |                       |       | H            | 21.15       | 5.07         | -3.84      | 22.39        | 34.77 |
|                                               | 713.5                 | 23155 | V            | 15.42       | 5.08         | -3.86      | 16.65        | 34.77 |
|                                               |                       |       | H            | 20.59       | 5.08         | -3.86      | 21.82        | 34.77 |
| LTE<br>BAND 12<br>BW: 5M<br>QPSK<br>RB: 1,24  | 701.5                 | 23035 | V            | 16.59       | 5.07         | -3.83      | 17.83        | 34.77 |
|                                               |                       |       | H            | 20.79       | 5.07         | -3.83      | 22.03        | 34.77 |
|                                               | 707.5                 | 23095 | V            | 16.31       | 5.08         | -3.85      | 17.54        | 34.77 |
|                                               |                       |       | H            | 21.26       | 5.08         | -3.85      | 22.49        | 34.77 |
|                                               | 713.5                 | 23155 | V            | 16.01       | 5.09         | -3.87      | 17.23        | 34.77 |
|                                               |                       |       | H            | 21.70       | 5.09         | -3.87      | <b>22.93</b> | 34.77 |
| LTE<br>BAND 12<br>BW: 5M<br>16QAM<br>RB: 1,0  | 701.5                 | 23035 | V            | 14.29       | 5.06         | -3.82      | 15.53        | 34.77 |
|                                               |                       |       | H            | 18.95       | 5.06         | -3.82      | 20.18        | 34.77 |
|                                               | 707.5                 | 23095 | V            | 16.69       | 5.07         | -3.84      | 17.93        | 34.77 |
|                                               |                       |       | H            | 21.29       | 5.07         | -3.84      | 22.53        | 34.77 |
|                                               | 713.5                 | 23155 | V            | 15.12       | 5.08         | -3.85      | 16.35        | 34.77 |
|                                               |                       |       | H            | 20.74       | 5.08         | -3.85      | 21.96        | 34.77 |
| LTE<br>BAND 12<br>BW: 5M<br>16QAM<br>RB: 1,24 | 701.5                 | 23035 | V            | 16.71       | 5.07         | -3.83      | 17.95        | 34.77 |
|                                               |                       |       | H            | 21.01       | 5.07         | -3.83      | 22.24        | 34.77 |
|                                               | 707.5                 | 23095 | V            | 16.43       | 5.08         | -3.85      | 17.66        | 34.77 |
|                                               |                       |       | H            | 21.44       | 5.08         | -3.85      | <b>22.67</b> | 34.77 |
|                                               | 713.5                 | 23155 | V            | 15.94       | 5.09         | -3.87      | 17.16        | 34.77 |
|                                               |                       |       | H            | 21.42       | 5.09         | -3.87      | 22.65        | 34.77 |
| LTE<br>BAND 12<br>BW: 5M<br>64QAM<br>RB: 1,0  | 701.5                 | 23035 | V            | 8.25        | 5.06         | -3.82      | 9.49         | 34.77 |
|                                               |                       |       | H            | 14.94       | 5.05         | -3.82      | 16.17        | 34.77 |
|                                               | 707.5                 | 23095 | V            | 10.97       | 5.07         | -3.83      | 12.21        | 34.77 |
|                                               |                       |       | H            | 17.93       | 5.07         | -3.83      | 19.17        | 34.77 |
|                                               | 713.5                 | 23155 | V            | 11.10       | 5.07         | -3.84      | 12.33        | 34.77 |
|                                               |                       |       | H            | 18.18       | 5.07         | -3.84      | 19.42        | 34.77 |
| LTE<br>BAND 12<br>BW: 5M<br>64QAM<br>RB: 1,24 | 701.5                 | 23035 | V            | 11.75       | 5.08         | -3.85      | 12.98        | 34.77 |
|                                               |                       |       | H            | 18.73       | 5.08         | -3.85      | 19.96        | 34.77 |
|                                               | 707.5                 | 23095 | V            | 10.99       | 5.08         | -3.86      | 12.21        | 34.77 |
|                                               |                       |       | H            | 17.99       | 5.08         | -3.86      | 19.22        | 34.77 |
|                                               | 713.5                 | 23155 | V            | 11.48       | 5.09         | -3.87      | 12.70        | 34.77 |
|                                               |                       |       | H            | 19.39       | 5.09         | -3.87      | <b>20.61</b> | 34.77 |

**Remark :** (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                            |                       |       | Measurement  |             |              |            |              |       |
|------------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                                                | MHz                   |       | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| LTE<br>BAND 12<br>BW: 10M<br>QPSK<br>RB: 1,0   | 704.0                 | 23060 | V            | 14.56       | 5.06         | -3.82      | 15.79        | 34.77 |
|                                                |                       |       | H            | 18.98       | 5.06         | -3.82      | 20.21        | 34.77 |
|                                                | 707.5                 | 23095 | V            | 16.24       | 5.07         | -3.83      | 17.47        | 34.77 |
|                                                |                       |       | H            | 20.47       | 5.07         | -3.83      | 21.70        | 34.77 |
|                                                | 711.0                 | 23130 | V            | 16.32       | 5.07         | -3.84      | 17.55        | 34.77 |
|                                                |                       |       | H            | 21.20       | 5.07         | -3.84      | <b>22.43</b> | 34.77 |
| LTE<br>BAND 12<br>BW: 10M<br>QPSK<br>RB: 1,49  | 704.0                 | 23060 | V            | 14.40       | 5.08         | -3.85      | 15.63        | 34.77 |
|                                                |                       |       | H            | 19.00       | 5.08         | -3.85      | 20.24        | 34.77 |
|                                                | 707.5                 | 23095 | V            | 14.82       | 5.08         | -3.86      | 16.05        | 34.77 |
|                                                |                       |       | H            | 20.47       | 5.08         | -3.86      | 21.69        | 34.77 |
|                                                | 711.0                 | 23130 | V            | 15.09       | 5.09         | -3.87      | 16.31        | 34.77 |
|                                                |                       |       | H            | 20.90       | 5.09         | -3.87      | 22.13        | 34.77 |
| LTE<br>BAND 12<br>BW: 10M<br>16QAM<br>RB: 1,0  | 704.0                 | 23060 | V            | 14.25       | 5.06         | -3.82      | 15.49        | 34.77 |
|                                                |                       |       | H            | 18.91       | 5.06         | -3.82      | 20.15        | 34.77 |
|                                                | 707.5                 | 23095 | V            | 16.14       | 5.07         | -3.83      | 17.37        | 34.77 |
|                                                |                       |       | H            | 20.58       | 5.07         | -3.83      | 21.82        | 34.77 |
|                                                | 711.0                 | 23130 | V            | 15.40       | 5.07         | -3.84      | 16.63        | 34.77 |
|                                                |                       |       | H            | 20.08       | 5.07         | -3.84      | 21.31        | 34.77 |
| LTE<br>BAND 12<br>BW: 10M<br>16QAM<br>RB: 1,49 | 704.0                 | 23060 | V            | 16.58       | 5.08         | -3.85      | 17.81        | 34.77 |
|                                                |                       |       | H            | 21.27       | 5.08         | -3.85      | 22.50        | 34.77 |
|                                                | 707.5                 | 23095 | V            | 15.22       | 5.08         | -3.86      | 16.45        | 34.77 |
|                                                |                       |       | H            | 20.60       | 5.08         | -3.86      | 21.83        | 34.77 |
|                                                | 711.0                 | 23130 | V            | 15.67       | 5.09         | -3.87      | 16.89        | 34.77 |
|                                                |                       |       | H            | 21.48       | 5.09         | -3.87      | <b>22.70</b> | 34.77 |
| LTE<br>BAND 12<br>BW: 10M<br>64QAM<br>RB: 1,0  | 704.0                 | 23060 | V            | 8.16        | 5.05         | -3.82      | 9.39         | 34.77 |
|                                                |                       |       | H            | 15.07       | 5.05         | -3.82      | 16.31        | 34.77 |
|                                                | 707.5                 | 23095 | V            | 10.67       | 5.07         | -3.83      | 11.91        | 34.77 |
|                                                |                       |       | H            | 17.71       | 5.07         | -3.83      | 18.95        | 34.77 |
|                                                | 711.0                 | 23130 | V            | 10.16       | 5.07         | -3.84      | 11.40        | 34.77 |
|                                                |                       |       | H            | 17.26       | 5.07         | -3.84      | 18.50        | 34.77 |
| LTE<br>BAND 12<br>BW: 10M<br>64QAM<br>RB: 1,49 | 704.0                 | 23060 | V            | 11.64       | 5.08         | -3.85      | 12.87        | 34.77 |
|                                                |                       |       | H            | 18.66       | 5.08         | -3.84      | 19.89        | 34.77 |
|                                                | 707.5                 | 23095 | V            | 10.63       | 5.08         | -3.86      | 11.85        | 34.77 |
|                                                |                       |       | H            | 17.88       | 5.08         | -3.86      | 19.10        | 34.77 |
|                                                | 711.0                 | 23130 | V            | 11.25       | 5.09         | -3.87      | 12.48        | 34.77 |
|                                                |                       |       | H            | 19.25       | 5.09         | -3.87      | <b>20.48</b> | 34.77 |

**Remark :** (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                           |                       |       | Measurement  |             |              |            |              |       |
|-----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                                               | MHz                   |       | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| LTE<br>BAND 13<br>BW: 5M<br>QPSK<br>RB: 1,0   | 779.5                 | 23205 | V            | 16.94       | 5.19         | -4.04      | 18.09        | 34.77 |
|                                               |                       |       | H            | 26.11       | 5.19         | -4.04      | 27.26        | 34.77 |
|                                               | 782.0                 | 23230 | V            | 18.91       | 5.20         | -4.05      | 20.06        | 34.77 |
|                                               |                       |       | H            | 26.39       | 5.20         | -4.05      | <b>27.53</b> | 34.77 |
|                                               | 784.5                 | 23255 | V            | 18.78       | 5.20         | -4.06      | 19.91        | 34.77 |
|                                               |                       |       | H            | 25.56       | 5.20         | -4.06      | 26.70        | 34.77 |
| LTE<br>BAND 13<br>BW: 5M<br>QPSK<br>RB: 1,24  | 779.5                 | 23205 | V            | 18.81       | 5.20         | -4.06      | 19.95        | 34.77 |
|                                               |                       |       | H            | 25.57       | 5.20         | -4.06      | 26.71        | 34.77 |
|                                               | 782.0                 | 23230 | V            | 18.47       | 5.20         | -4.07      | 19.60        | 34.77 |
|                                               |                       |       | H            | 26.29       | 5.20         | -4.07      | 27.43        | 34.77 |
|                                               | 784.5                 | 23255 | V            | 18.55       | 5.20         | -4.08      | 19.68        | 34.77 |
|                                               |                       |       | H            | 26.04       | 5.20         | -4.08      | 27.17        | 34.77 |
| LTE<br>BAND 13<br>BW: 5M<br>16QAM<br>RB: 1,0  | 779.5                 | 23205 | V            | 18.63       | 5.19         | -4.04      | 19.78        | 34.77 |
|                                               |                       |       | H            | 26.13       | 5.19         | -4.04      | 27.28        | 34.77 |
|                                               | 782.0                 | 23230 | V            | 18.92       | 5.20         | -4.05      | 20.06        | 34.77 |
|                                               |                       |       | H            | 26.51       | 5.20         | -4.05      | <b>27.66</b> | 34.77 |
|                                               | 784.5                 | 23255 | V            | 18.56       | 5.20         | -4.06      | 19.70        | 34.77 |
|                                               |                       |       | H            | 26.29       | 5.20         | -4.06      | 27.43        | 34.77 |
| LTE<br>BAND 13<br>BW: 5M<br>16QAM<br>RB: 1,24 | 779.5                 | 23205 | V            | 18.91       | 5.20         | -4.06      | 20.05        | 34.77 |
|                                               |                       |       | H            | 26.39       | 5.20         | -4.06      | 27.54        | 34.77 |
|                                               | 782.0                 | 23230 | V            | 18.52       | 5.20         | -4.06      | 19.65        | 34.77 |
|                                               |                       |       | H            | 26.39       | 5.20         | -4.06      | 27.53        | 34.77 |
|                                               | 784.5                 | 23255 | V            | 18.57       | 5.20         | -4.07      | 19.70        | 34.77 |
|                                               |                       |       | H            | 26.01       | 5.20         | -4.07      | 27.14        | 34.77 |
| LTE<br>BAND 13<br>BW: 5M<br>64QAM<br>RB: 1,0  | 779.5                 | 23205 | V            | 17.80       | 5.19         | -4.04      | 18.96        | 34.77 |
|                                               |                       |       | H            | 14.64       | 5.19         | -4.04      | 15.79        | 34.77 |
|                                               | 782.0                 | 23230 | V            | 18.73       | 5.20         | -4.05      | <b>19.88</b> | 34.77 |
|                                               |                       |       | H            | 15.91       | 5.20         | -4.05      | 17.06        | 34.77 |
|                                               | 784.5                 | 23255 | V            | 18.51       | 5.20         | -4.06      | 19.65        | 34.77 |
|                                               |                       |       | H            | 16.32       | 5.20         | -4.06      | 17.46        | 34.77 |
| LTE<br>BAND 13<br>BW: 5M<br>64QAM<br>RB: 1,24 | 779.5                 | 23205 | V            | 18.40       | 5.20         | -4.05      | 19.55        | 34.77 |
|                                               |                       |       | H            | 15.97       | 5.20         | -4.05      | 17.11        | 34.77 |
|                                               | 782.0                 | 23230 | V            | 18.47       | 5.20         | -4.06      | 19.61        | 34.77 |
|                                               |                       |       | H            | 16.05       | 5.20         | -4.06      | 17.19        | 34.77 |
|                                               | 784.5                 | 23255 | V            | 18.17       | 5.20         | -4.07      | 19.30        | 34.77 |
|                                               |                       |       | H            | 15.99       | 5.20         | -4.08      | 17.12        | 34.77 |

**Remark :** (1)The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                    |                       |       | Measurement  |             |              |            |              |       |
|------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band         | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
| LTE BAND 13<br>BW: 10M | MHz                   |       | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| QPSK<br>RB: 1,0        | 782.0                 | 23230 | V            | 18.68       | 5.19         | -4.04      | 19.83        | 34.77 |
|                        |                       |       | H            | 26.26       | 5.19         | -4.04      | <b>27.41</b> | 34.77 |
| QPSK<br>RB: 1,49       | 782.0                 | 23230 | V            | 18.49       | 5.20         | -4.08      | 19.62        | 34.77 |
|                        |                       |       | H            | 26.02       | 5.20         | -4.08      | 27.15        | 34.77 |
| 16QAM<br>RB: 1,0       | 782.0                 | 23230 | V            | 18.69       | 5.19         | -4.04      | 19.84        | 34.77 |
|                        |                       |       | H            | 26.23       | 5.19         | -4.04      | <b>27.38</b> | 34.77 |
| 16QAM<br>RB: 1,49      | 782.0                 | 23230 | V            | 18.59       | 5.20         | -4.07      | 19.72        | 34.77 |
|                        |                       |       | H            | 25.67       | 5.20         | -4.07      | 26.80        | 34.77 |
| 64QAM<br>RB: 1,0       | 782.0                 | 23230 | V            | 18.21       | 5.19         | -4.04      | <b>19.36</b> | 34.77 |
|                        |                       |       | H            | 14.33       | 5.19         | -4.04      | 15.48        | 34.77 |
| 64QAM<br>RB: 1,49      | 782.0                 | 23230 | V            | 18.13       | 5.20         | -4.07      | 19.26        | 34.77 |
|                        |                       |       | H            | 15.95       | 5.20         | -4.07      | 17.07        | 34.77 |

**Remark :** ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                           |                       |       | Measurement  |             |              |            |              |       |
|-----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                                               | MHz                   |       | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| LTE<br>BAND 17<br>BW: 5M<br>QPSK<br>RB: 1,0   | 706.5                 | 23755 | V            | 10.71       | 5.07         | -3.83      | 11.94        | 24.77 |
|                                               |                       |       | H            | 17.92       | 5.07         | -3.83      | <b>19.15</b> | 24.77 |
|                                               | 710.0                 | 23790 | V            | 11.39       | 5.08         | -3.84      | 12.62        | 24.77 |
|                                               |                       |       | H            | 16.33       | 5.08         | -3.84      | 17.57        | 24.77 |
|                                               | 713.5                 | 23825 | V            | 11.54       | 5.08         | -3.85      | 12.77        | 24.77 |
|                                               |                       |       | H            | 14.13       | 5.08         | -3.85      | 15.36        | 24.77 |
| LTE<br>BAND 17<br>BW: 5M<br>QPSK<br>RB: 1,24  | 706.5                 | 23755 | V            | 10.84       | 5.08         | -3.84      | 12.07        | 24.77 |
|                                               |                       |       | H            | 15.77       | 5.08         | -3.85      | 17.00        | 24.77 |
|                                               | 710.0                 | 23790 | V            | 11.14       | 5.09         | -3.86      | 12.37        | 24.77 |
|                                               |                       |       | H            | 15.95       | 5.09         | -3.86      | 17.18        | 24.77 |
|                                               | 713.5                 | 23825 | V            | 12.40       | 5.09         | -3.87      | 13.62        | 24.77 |
|                                               |                       |       | H            | 14.44       | 5.09         | -3.87      | 15.66        | 24.77 |
| LTE<br>BAND 17<br>BW: 5M<br>16QAM<br>RB: 1,0  | 706.5                 | 23755 | V            | 13.01       | 5.07         | -3.83      | 14.25        | 24.77 |
|                                               |                       |       | H            | 17.95       | 5.07         | -3.83      | <b>19.19</b> | 24.77 |
|                                               | 710.0                 | 23790 | V            | 11.29       | 5.08         | -3.84      | 12.53        | 24.77 |
|                                               |                       |       | H            | 16.28       | 5.08         | -3.84      | 17.51        | 24.77 |
|                                               | 713.5                 | 23825 | V            | 11.62       | 5.08         | -3.85      | 12.85        | 24.77 |
|                                               |                       |       | H            | 16.11       | 5.08         | -3.86      | 17.34        | 24.77 |
| LTE<br>BAND 17<br>BW: 5M<br>16QAM<br>RB: 1,24 | 706.5                 | 23755 | V            | 13.05       | 5.08         | -3.84      | 14.28        | 24.77 |
|                                               |                       |       | H            | 16.13       | 5.08         | -3.85      | 17.36        | 24.77 |
|                                               | 710.0                 | 23790 | V            | 11.25       | 5.08         | -3.86      | 12.48        | 24.77 |
|                                               |                       |       | H            | 15.95       | 5.09         | -3.86      | 17.18        | 24.77 |
|                                               | 713.5                 | 23825 | V            | 12.49       | 5.09         | -3.87      | 13.71        | 24.77 |
|                                               |                       |       | H            | 14.55       | 5.09         | -3.87      | 15.77        | 24.77 |
| LTE<br>BAND 17<br>BW: 5M<br>64QAM<br>RB: 1,0  | 706.5                 | 23755 | V            | 12.92       | 5.07         | -3.83      | 14.16        | 24.77 |
|                                               |                       |       | H            | 17.83       | 5.07         | -3.83      | <b>19.06</b> | 24.77 |
|                                               | 710.0                 | 23790 | V            | 11.33       | 5.08         | -3.84      | 12.56        | 24.77 |
|                                               |                       |       | H            | 16.29       | 5.08         | -3.84      | 17.53        | 24.77 |
|                                               | 713.5                 | 23825 | V            | 11.57       | 5.08         | -3.85      | 12.80        | 24.77 |
|                                               |                       |       | H            | 16.44       | 5.08         | -3.85      | 17.67        | 24.77 |
| LTE<br>BAND 17<br>BW: 5M<br>64QAM<br>RB: 1,24 | 706.5                 | 23755 | V            | 12.93       | 5.08         | -3.85      | 14.16        | 24.77 |
|                                               |                       |       | H            | 17.69       | 5.08         | -3.84      | 18.92        | 24.77 |
|                                               | 710.0                 | 23790 | V            | 11.32       | 5.08         | -3.86      | 12.55        | 24.77 |
|                                               |                       |       | H            | 16.26       | 5.08         | -3.84      | 17.49        | 24.77 |
|                                               | 713.5                 | 23825 | V            | 12.10       | 5.09         | -3.87      | 13.33        | 24.77 |
|                                               |                       |       | H            | 16.95       | 5.09         | -3.87      | 18.17        | 24.77 |

Remark : <sup>2</sup>A for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                            |                       |       | Measurement  |             |              |            |              |       |
|------------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                                                | MHz                   |       | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| LTE<br>BAND 17<br>BW: 10M<br>QPSK<br>RB: 1,0   | 709.0                 | 23780 | V            | 11.62       | 5.07         | -3.83      | 12.85        | 24.77 |
|                                                |                       |       | H            | 15.27       | 5.07         | -3.83      | <b>16.51</b> | 24.77 |
|                                                | 710.0                 | 23790 | V            | 7.89        | 5.07         | -3.84      | 9.12         | 24.77 |
|                                                |                       |       | H            | 10.15       | 5.07         | -3.84      | 11.39        | 24.77 |
|                                                | 711.0                 | 23800 | V            | 4.86        | 5.07         | -3.84      | 6.10         | 24.77 |
|                                                |                       |       | H            | 6.07        | 5.07         | -3.84      | 7.30         | 24.77 |
| LTE<br>BAND 17<br>BW: 10M<br>QPSK<br>RB: 1,49  | 709.0                 | 23780 | V            | 11.19       | 5.09         | -3.86      | 12.41        | 24.77 |
|                                                |                       |       | H            | 13.46       | 5.09         | -3.86      | 14.69        | 24.77 |
|                                                | 710.0                 | 23790 | V            | 6.80        | 5.09         | -3.86      | 8.02         | 24.77 |
|                                                |                       |       | H            | 8.24        | 5.09         | -3.86      | 9.46         | 24.77 |
|                                                | 711.0                 | 23800 | V            | 12.73       | 5.09         | -3.87      | 13.95        | 24.77 |
|                                                |                       |       | H            | 14.21       | 5.09         | -3.87      | 15.43        | 24.77 |
| LTE<br>BAND 17<br>BW: 10M<br>16QAM<br>RB: 1,0  | 709.0                 | 23780 | V            | 11.20       | 5.07         | -3.84      | 12.44        | 24.77 |
|                                                |                       |       | H            | 16.22       | 5.07         | -3.83      | <b>17.46</b> | 24.77 |
|                                                | 710.0                 | 23790 | V            | 8.66        | 5.07         | -3.84      | 9.89         | 24.77 |
|                                                |                       |       | H            | 8.75        | 5.07         | -3.84      | 9.99         | 24.77 |
|                                                | 711.0                 | 23800 | V            | 5.73        | 5.07         | -3.84      | 6.96         | 24.77 |
|                                                |                       |       | H            | 6.31        | 5.07         | -3.84      | 7.54         | 24.77 |
| LTE<br>BAND 17<br>BW: 10M<br>16QAM<br>RB: 1,49 | 709.0                 | 23780 | V            | 11.20       | 5.09         | -3.86      | 12.43        | 24.77 |
|                                                |                       |       | H            | 15.22       | 5.09         | -3.86      | 16.45        | 24.77 |
|                                                | 710.0                 | 23790 | V            | 7.87        | 5.09         | -3.86      | 9.10         | 24.77 |
|                                                |                       |       | H            | 6.53        | 5.09         | -3.86      | 7.75         | 24.77 |
|                                                | 711.0                 | 23800 | V            | 3.45        | 5.09         | -3.87      | 4.68         | 24.77 |
|                                                |                       |       | H            | 5.35        | 5.09         | -3.87      | 6.58         | 24.77 |
| LTE<br>BAND 17<br>BW: 10M<br>64QAM<br>RB: 1,0  | 709.0                 | 23780 | V            | 12.47       | 5.07         | -3.83      | 13.71        | 24.77 |
|                                                |                       |       | H            | 16.26       | 5.07         | -3.83      | <b>17.50</b> | 24.77 |
|                                                | 710.0                 | 23790 | V            | 9.66        | 5.07         | -3.84      | 10.89        | 24.77 |
|                                                |                       |       | H            | 9.32        | 5.07         | -3.84      | 10.55        | 24.77 |
|                                                | 711.0                 | 23800 | V            | 7.32        | 5.07         | -3.84      | 8.55         | 24.77 |
|                                                |                       |       | H            | 8.56        | 5.07         | -3.84      | 9.80         | 24.77 |
| LTE<br>BAND 17<br>BW: 10M<br>64QAM<br>RB: 1,49 | 709.0                 | 23780 | V            | 11.26       | 5.09         | -3.86      | 12.48        | 24.77 |
|                                                |                       |       | H            | 15.72       | 5.09         | -3.86      | 16.95        | 24.77 |
|                                                | 710.0                 | 23790 | V            | 8.66        | 5.09         | -3.86      | 9.89         | 24.77 |
|                                                |                       |       | H            | 7.53        | 5.09         | -3.87      | 8.76         | 24.77 |
|                                                | 711.0                 | 23800 | V            | 4.28        | 5.09         | -3.86      | 5.51         | 24.77 |
|                                                |                       |       | H            | 6.99        | 5.09         | -3.87      | 8.21         | 24.77 |

Remark : <sup>2</sup>A for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                            |                       |       | Measurement  |             |              |            |              |       |
|------------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                                | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 25<br>BW: 1.4M<br>QPSK<br>RB: 1,0  | 1850.7                | 26047 | V            | 11.67       | 9.57         | -6.86      | 14.39        | 33.01 |
|                                                |                       |       | H            | 13.78       | 9.57         | -6.86      | 16.49        | 33.01 |
|                                                | 1882.5                | 26365 | V            | 11.66       | 9.71         | -6.92      | 14.44        | 33.01 |
|                                                |                       |       | H            | 13.96       | 9.71         | -6.92      | 16.75        | 33.01 |
|                                                | 1914.3                | 26683 | V            | 7.75        | 9.84         | -6.98      | 10.61        | 33.01 |
|                                                |                       |       | H            | 10.94       | 9.84         | -6.98      | 13.81        | 33.01 |
| LTE<br>BAND 25<br>BW: 1.4M<br>QPSK<br>RB: 1,5  | 1850.7                | 26047 | V            | 11.43       | 9.58         | -6.86      | 14.15        | 33.01 |
|                                                |                       |       | H            | 14.78       | 9.58         | -6.86      | 17.50        | 33.01 |
|                                                | 1882.5                | 26365 | V            | 11.55       | 9.71         | -6.92      | 14.34        | 33.01 |
|                                                |                       |       | H            | 14.73       | 9.71         | -6.92      | <b>17.53</b> | 33.01 |
|                                                | 1914.3                | 26683 | V            | 7.13        | 9.84         | -6.98      | 10.00        | 33.01 |
|                                                |                       |       | H            | 10.98       | 9.84         | -6.98      | 13.84        | 33.01 |
| LTE<br>BAND 25<br>BW: 1.4M<br>16QAM<br>RB: 1,0 | 1850.7                | 26047 | V            | 11.66       | 9.57         | -6.86      | 14.38        | 33.01 |
|                                                |                       |       | H            | 13.39       | 9.57         | -6.86      | 16.11        | 33.01 |
|                                                | 1882.5                | 26365 | V            | 11.82       | 9.71         | -6.92      | 14.61        | 33.01 |
|                                                |                       |       | H            | 13.92       | 9.70         | -6.92      | 16.71        | 33.01 |
|                                                | 1914.3                | 26683 | V            | 7.83        | 9.84         | -6.98      | 10.69        | 33.01 |
|                                                |                       |       | H            | 10.21       | 9.84         | -6.98      | 13.08        | 33.01 |
| LTE<br>BAND 25<br>BW: 1.4M<br>16QAM<br>RB: 1,5 | 1850.7                | 26047 | V            | 11.43       | 9.58         | -6.86      | 14.15        | 33.01 |
|                                                |                       |       | H            | 14.55       | 9.57         | -6.86      | <b>17.27</b> | 33.01 |
|                                                | 1882.5                | 26365 | V            | 11.35       | 9.71         | -6.92      | 14.14        | 33.01 |
|                                                |                       |       | H            | 14.06       | 9.71         | -6.92      | 16.85        | 33.01 |
|                                                | 1914.3                | 26683 | V            | 7.48        | 9.84         | -6.98      | 10.35        | 33.01 |
|                                                |                       |       | H            | 10.38       | 9.84         | -6.98      | 13.25        | 33.01 |
| LTE<br>BAND 25<br>BW: 1.4M<br>64QAM<br>RB: 1,0 | 1850.7                | 26047 | V            | 11.22       | 9.57         | -6.86      | 13.94        | 33.01 |
|                                                |                       |       | H            | 13.95       | 9.57         | -6.86      | <b>16.67</b> | 33.01 |
|                                                | 1882.5                | 26365 | V            | 11.45       | 9.71         | -6.92      | 14.24        | 33.01 |
|                                                |                       |       | H            | 13.79       | 9.70         | -6.92      | 16.58        | 33.01 |
|                                                | 1914.3                | 26683 | V            | 7.46        | 9.84         | -6.98      | 10.33        | 33.01 |
|                                                |                       |       | H            | 9.55        | 9.84         | -6.98      | 12.42        | 33.01 |
| LTE<br>BAND 25<br>BW: 1.4M<br>64QAM<br>RB: 1,5 | 1850.7                | 26047 | V            | 11.23       | 9.58         | -6.86      | 13.95        | 33.01 |
|                                                |                       |       | H            | 13.87       | 9.58         | -6.86      | 16.59        | 33.01 |
|                                                | 1882.5                | 26365 | V            | 11.42       | 9.71         | -6.92      | 14.21        | 33.01 |
|                                                |                       |       | H            | 13.71       | 9.71         | -6.92      | 16.51        | 33.01 |
|                                                | 1914.3                | 26683 | V            | 7.89        | 9.84         | -6.98      | 10.76        | 33.01 |
|                                                |                       |       | H            | 9.99        | 9.84         | -6.98      | 12.85        | 33.01 |

Remark : (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                        |                       |       | Measurement  |             |              |            |              |       |
|--------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                             | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                            | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE BAND 25<br>BW: 3M<br>QPSK<br>RB: 1,0   | 1851.5                | 26055 | V            | 11.37       | 9.57         | -6.86      | 14.09        | 33.01 |
|                                            |                       |       | H            | 13.52       | 9.57         | -6.86      | 16.24        | 33.01 |
|                                            | 1882.5                | 26365 | V            | 10.99       | 9.70         | -6.91      | 13.78        | 33.01 |
|                                            |                       |       | H            | 13.24       | 9.70         | -6.92      | 16.03        | 33.01 |
|                                            | 1913.5                | 26675 | V            | 7.73        | 9.84         | -6.97      | 10.59        | 33.01 |
|                                            |                       |       | H            | 9.97        | 9.83         | -6.97      | 12.83        | 33.01 |
| LTE BAND 25<br>BW: 3M<br>QPSK<br>RB: 1,14  | 1851.5                | 26055 | V            | 11.33       | 9.58         | -6.86      | 14.05        | 33.01 |
|                                            |                       |       | H            | 13.74       | 9.58         | -6.86      | 16.46        | 33.01 |
|                                            | 1882.5                | 26365 | V            | 11.01       | 9.72         | -6.92      | 13.81        | 33.01 |
|                                            |                       |       | H            | 13.71       | 9.71         | -6.92      | <b>16.50</b> | 33.01 |
|                                            | 1913.5                | 26675 | V            | 10.53       | 9.84         | -6.98      | 13.39        | 33.01 |
|                                            |                       |       | H            | 10.31       | 9.84         | -6.98      | 13.18        | 33.01 |
| LTE BAND 25<br>BW: 3M<br>16QAM<br>RB: 1,0  | 1851.5                | 26055 | V            | 11.05       | 9.57         | -6.86      | 13.77        | 33.01 |
|                                            |                       |       | H            | 14.03       | 9.57         | -6.86      | <b>16.75</b> | 33.01 |
|                                            | 1882.5                | 26365 | V            | 11.08       | 9.70         | -6.91      | 13.87        | 33.01 |
|                                            |                       |       | H            | 13.58       | 9.70         | -6.92      | 16.37        | 33.01 |
|                                            | 1913.5                | 26675 | V            | 7.68        | 9.83         | -6.97      | 10.54        | 33.01 |
|                                            |                       |       | H            | 10.05       | 9.83         | -6.97      | 12.92        | 33.01 |
| LTE BAND 25<br>BW: 3M<br>16QAM<br>RB: 1,14 | 1851.5                | 26055 | V            | 11.34       | 9.58         | -6.86      | 14.06        | 33.01 |
|                                            |                       |       | H            | 13.20       | 9.58         | -6.86      | 15.92        | 33.01 |
|                                            | 1882.5                | 26365 | V            | 11.03       | 9.71         | -6.92      | 13.82        | 33.01 |
|                                            |                       |       | H            | 12.93       | 9.71         | -6.92      | 15.72        | 33.01 |
|                                            | 1913.5                | 26675 | V            | 7.36        | 9.84         | -6.98      | 10.23        | 33.01 |
|                                            |                       |       | H            | 9.84        | 9.85         | -6.98      | 12.71        | 33.01 |
| LTE BAND 25<br>BW: 3M<br>64QAM<br>RB: 1,0  | 1851.5                | 26055 | V            | 11.20       | 9.57         | -6.86      | 13.91        | 33.01 |
|                                            |                       |       | H            | 13.49       | 9.57         | -6.86      | <b>16.21</b> | 33.01 |
|                                            | 1882.5                | 26365 | V            | 11.08       | 9.70         | -6.92      | 13.87        | 33.01 |
|                                            |                       |       | H            | 13.22       | 9.70         | -6.91      | 16.00        | 33.01 |
|                                            | 1913.5                | 26675 | V            | 7.70        | 9.84         | -6.97      | 10.57        | 33.01 |
|                                            |                       |       | H            | 10.04       | 9.83         | -6.97      | 12.90        | 33.01 |
| LTE BAND 25<br>BW: 3M<br>64QAM<br>RB: 1,14 | 1851.5                | 26055 | V            | 11.47       | 9.58         | -6.86      | 14.19        | 33.01 |
|                                            |                       |       | H            | 13.25       | 9.58         | -6.86      | 15.98        | 33.01 |
|                                            | 1882.5                | 26365 | V            | 11.05       | 9.72         | -6.92      | 13.85        | 33.01 |
|                                            |                       |       | H            | 12.99       | 9.71         | -6.92      | 15.79        | 33.01 |
|                                            | 1913.5                | 26675 | V            | 7.19        | 9.84         | -6.98      | 10.05        | 33.01 |
|                                            |                       |       | H            | 9.77        | 9.84         | -6.98      | 12.64        | 33.01 |

**Remark :** (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                        |                       |       | Measurement  |             |              |            |              |       |
|--------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                             | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                            | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE BAND 25<br>BW: 5M<br>QPSK<br>RB: 1,0   | 1852.5                | 26065 | V            | 11.24       | 9.57         | -6.86      | 13.95        | 33.01 |
|                                            |                       |       | H            | 13.44       | 9.57         | -6.86      | <b>16.16</b> | 33.01 |
|                                            | 1882.5                | 26365 | V            | 11.14       | 9.70         | -6.91      | 13.92        | 33.01 |
|                                            |                       |       | H            | 13.15       | 9.70         | -6.91      | 15.94        | 33.01 |
|                                            | 1912.5                | 26665 | V            | 8.51        | 9.83         | -6.97      | 11.36        | 33.01 |
|                                            |                       |       | H            | 10.80       | 9.83         | -6.97      | 13.66        | 33.01 |
| LTE BAND 25<br>BW: 5M<br>QPSK<br>RB: 1,24  | 1852.5                | 26065 | V            | 11.55       | 9.59         | -6.86      | 14.28        | 33.01 |
|                                            |                       |       | H            | 13.25       | 9.59         | -6.86      | 15.98        | 33.01 |
|                                            | 1882.5                | 26365 | V            | 10.87       | 9.72         | -6.92      | 13.67        | 33.01 |
|                                            |                       |       | H            | 12.87       | 9.72         | -6.92      | 15.67        | 33.01 |
|                                            | 1912.5                | 26665 | V            | 7.38        | 9.84         | -6.98      | 10.24        | 33.01 |
|                                            |                       |       | H            | 9.86        | 9.84         | -6.98      | 12.73        | 33.01 |
| LTE BAND 25<br>BW: 5M<br>16QAM<br>RB: 1,0  | 1852.5                | 26065 | V            | 11.31       | 9.57         | -6.86      | 14.02        | 33.01 |
|                                            |                       |       | H            | 13.43       | 9.57         | -6.86      | <b>16.14</b> | 33.01 |
|                                            | 1882.5                | 26365 | V            | 11.15       | 9.70         | -6.91      | 13.93        | 33.01 |
|                                            |                       |       | H            | 13.17       | 9.70         | -6.91      | 15.96        | 33.01 |
|                                            | 1912.5                | 26665 | V            | 8.65        | 9.83         | -6.97      | 11.50        | 33.01 |
|                                            |                       |       | H            | 10.88       | 9.82         | -6.97      | 13.74        | 33.01 |
| LTE BAND 25<br>BW: 5M<br>16QAM<br>RB: 1,24 | 1852.5                | 26065 | V            | 11.65       | 9.59         | -6.86      | 14.37        | 33.01 |
|                                            |                       |       | H            | 13.22       | 9.59         | -6.86      | 15.95        | 33.01 |
|                                            | 1882.5                | 26365 | V            | 10.88       | 9.72         | -6.92      | 13.68        | 33.01 |
|                                            |                       |       | H            | 12.86       | 9.72         | -6.92      | 15.65        | 33.01 |
|                                            | 1912.5                | 26665 | V            | 7.38        | 9.84         | -6.98      | 10.25        | 33.01 |
|                                            |                       |       | H            | 9.78        | 9.85         | -6.98      | 12.65        | 33.01 |
| LTE BAND 25<br>BW: 5M<br>64QAM<br>RB: 1,0  | 1852.5                | 26065 | V            | 11.30       | 9.57         | -6.86      | 14.02        | 33.01 |
|                                            |                       |       | H            | 13.42       | 9.57         | -6.86      | <b>16.14</b> | 33.01 |
|                                            | 1882.5                | 26365 | V            | 11.12       | 9.70         | -6.91      | 13.90        | 33.01 |
|                                            |                       |       | H            | 13.09       | 9.70         | -6.91      | 15.88        | 33.01 |
|                                            | 1912.5                | 26665 | V            | 8.74        | 9.82         | -6.97      | 11.59        | 33.01 |
|                                            |                       |       | H            | 10.86       | 9.82         | -6.97      | 13.71        | 33.01 |
| LTE BAND 25<br>BW: 5M<br>64QAM<br>RB: 1,24 | 1852.5                | 26065 | V            | 11.44       | 9.59         | -6.86      | 14.17        | 33.01 |
|                                            |                       |       | H            | 13.35       | 9.59         | -6.87      | 16.07        | 33.01 |
|                                            | 1882.5                | 26365 | V            | 10.78       | 9.72         | -6.92      | 13.57        | 33.01 |
|                                            |                       |       | H            | 12.83       | 9.72         | -6.92      | 15.63        | 33.01 |
|                                            | 1912.5                | 26665 | V            | 7.28        | 9.84         | -6.98      | 10.14        | 33.01 |
|                                            |                       |       | H            | 9.71        | 9.84         | -6.98      | 12.58        | 33.01 |

**Remark :** (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                         |                       |       | Measurement  |             |              |            |              |       |
|---------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                              | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                             | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE BAND 25<br>BW: 10M<br>QPSK<br>RB: 1,0   | 1855.0                | 26090 | V            | 14.79       | 9.57         | -6.86      | 17.50        | 33.01 |
|                                             |                       |       | H            | 18.54       | 9.57         | -6.86      | <b>21.25</b> | 33.01 |
|                                             | 1882.5                | 26365 | V            | 14.50       | 9.69         | -6.91      | 17.28        | 33.01 |
|                                             |                       |       | H            | 18.31       | 9.69         | -6.91      | 21.09        | 33.01 |
|                                             | 1910.0                | 26640 | V            | 13.12       | 9.80         | -6.96      | 15.96        | 33.01 |
|                                             |                       |       | H            | 17.74       | 9.80         | -6.96      | 20.58        | 33.01 |
| LTE BAND 25<br>BW: 10M<br>QPSK<br>RB: 1,49  | 1855.0                | 26090 | V            | 14.78       | 9.61         | -6.87      | 17.52        | 33.01 |
|                                             |                       |       | H            | 17.75       | 9.61         | -6.87      | 20.49        | 33.01 |
|                                             | 1882.5                | 26365 | V            | 13.06       | 9.73         | -6.93      | 15.86        | 33.01 |
|                                             |                       |       | H            | 17.71       | 9.73         | -6.93      | 20.51        | 33.01 |
|                                             | 1910.0                | 26640 | V            | 11.10       | 9.84         | -6.97      | 13.97        | 33.01 |
|                                             |                       |       | H            | 16.05       | 9.84         | -6.97      | 18.92        | 33.01 |
| LTE BAND 25<br>BW: 10M<br>16QAM<br>RB: 1,0  | 1855.0                | 26090 | V            | 14.71       | 9.57         | -6.86      | 17.42        | 33.01 |
|                                             |                       |       | H            | 17.59       | 9.57         | -6.86      | 20.30        | 33.01 |
|                                             | 1882.5                | 26365 | V            | 14.68       | 9.69         | -6.91      | 17.46        | 33.01 |
|                                             |                       |       | H            | 18.28       | 9.69         | -6.91      | <b>21.06</b> | 33.01 |
|                                             | 1910.0                | 26640 | V            | 13.09       | 9.80         | -6.96      | 15.93        | 33.01 |
|                                             |                       |       | H            | 17.84       | 9.80         | -6.96      | 20.68        | 33.01 |
| LTE BAND 25<br>BW: 10M<br>16QAM<br>RB: 1,49 | 1855.0                | 26090 | V            | 15.01       | 9.61         | -6.87      | 17.75        | 33.01 |
|                                             |                       |       | H            | 17.85       | 9.61         | -6.87      | 20.59        | 33.01 |
|                                             | 1882.5                | 26365 | V            | 13.73       | 9.73         | -6.93      | 16.53        | 33.01 |
|                                             |                       |       | H            | 17.67       | 9.73         | -6.93      | 20.47        | 33.01 |
|                                             | 1910.0                | 26640 | V            | 11.01       | 9.84         | -6.98      | 13.87        | 33.01 |
|                                             |                       |       | H            | 15.99       | 9.84         | -6.98      | 18.85        | 33.01 |
| LTE BAND 25<br>BW: 10M<br>64QAM<br>RB: 1,0  | 1855.0                | 26090 | V            | 14.71       | 9.57         | -6.86      | 17.42        | 33.01 |
|                                             |                       |       | H            | 17.74       | 9.57         | -6.86      | 20.45        | 33.01 |
|                                             | 1882.5                | 26365 | V            | 14.64       | 9.69         | -6.91      | 17.42        | 33.01 |
|                                             |                       |       | H            | 18.35       | 9.69         | -6.91      | <b>21.13</b> | 33.01 |
|                                             | 1910.0                | 26640 | V            | 13.06       | 9.81         | -6.96      | 15.91        | 33.01 |
|                                             |                       |       | H            | 17.82       | 9.81         | -6.96      | 20.67        | 33.01 |
| LTE BAND 25<br>BW: 10M<br>64QAM<br>RB: 1,49 | 1855.0                | 26090 | V            | 15.01       | 9.61         | -6.87      | 17.75        | 33.01 |
|                                             |                       |       | H            | 18.13       | 9.61         | -6.87      | 20.87        | 33.01 |
|                                             | 1882.5                | 26365 | V            | 13.64       | 9.73         | -6.93      | 16.44        | 33.01 |
|                                             |                       |       | H            | 17.69       | 9.73         | -6.93      | 20.49        | 33.01 |
|                                             | 1910.0                | 26640 | V            | 10.99       | 9.84         | -6.98      | 13.85        | 33.01 |
|                                             |                       |       | H            | 16.00       | 9.84         | -6.98      | 18.86        | 33.01 |

Remark : (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                         |                       |       | Measurement  |             |              |            |              |       |
|---------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                              | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                             | MHz                   |       | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
| LTE BAND 25<br>BW: 15M<br>QPSK<br>RB: 1,0   | 1857.5                | 26115 | V            | 14.47       | 9.58         | -6.86      | 17.19        | 33.01 |
|                                             |                       |       | H            | 17.96       | 9.58         | -6.86      | 20.68        | 33.01 |
|                                             | 1882.5                | 26365 | V            | 14.17       | 9.68         | -6.91      | 16.94        | 33.01 |
|                                             |                       |       | H            | 17.98       | 9.68         | -6.91      | <b>20.75</b> | 33.01 |
|                                             | 1907.5                | 26615 | V            | 13.36       | 9.78         | -6.95      | 16.19        | 33.01 |
|                                             |                       |       | H            | 17.42       | 9.78         | -6.95      | 20.25        | 33.01 |
| LTE BAND 25<br>BW: 15M<br>QPSK<br>RB: 1,74  | 1857.5                | 26115 | V            | 13.93       | 9.63         | -6.88      | 16.68        | 33.01 |
|                                             |                       |       | H            | 17.49       | 9.63         | -6.88      | 20.24        | 33.01 |
|                                             | 1882.5                | 26365 | V            | 12.77       | 9.74         | -6.93      | 15.58        | 33.01 |
|                                             |                       |       | H            | 16.93       | 9.74         | -6.93      | 19.74        | 33.01 |
|                                             | 1907.5                | 26615 | V            | 9.80        | 9.84         | -6.98      | 12.66        | 33.01 |
|                                             |                       |       | H            | 15.08       | 9.84         | -6.98      | 17.94        | 33.01 |
| LTE BAND 25<br>BW: 15M<br>16QAM<br>RB: 1,0  | 1857.5                | 26115 | V            | 14.10       | 9.57         | -6.86      | 16.81        | 33.01 |
|                                             |                       |       | H            | 17.64       | 9.57         | -6.86      | 20.35        | 33.01 |
|                                             | 1882.5                | 26365 | V            | 14.19       | 9.68         | -6.90      | 16.97        | 33.01 |
|                                             |                       |       | H            | 18.13       | 9.68         | -6.90      | <b>20.91</b> | 33.01 |
|                                             | 1907.5                | 26615 | V            | 13.11       | 9.78         | -6.95      | 15.94        | 33.01 |
|                                             |                       |       | H            | 17.46       | 9.78         | -6.95      | 20.29        | 33.01 |
| LTE BAND 25<br>BW: 15M<br>16QAM<br>RB: 1,74 | 1857.5                | 26115 | V            | 13.83       | 9.63         | -6.88      | 16.58        | 33.01 |
|                                             |                       |       | H            | 17.57       | 9.63         | -6.88      | 20.32        | 33.01 |
|                                             | 1882.5                | 26365 | V            | 12.80       | 9.73         | -6.93      | 15.60        | 33.01 |
|                                             |                       |       | H            | 17.08       | 9.73         | -6.93      | 19.88        | 33.01 |
|                                             | 1907.5                | 26615 | V            | 10.69       | 9.84         | -6.98      | 13.55        | 33.01 |
|                                             |                       |       | H            | 15.21       | 9.84         | -6.98      | 18.07        | 33.01 |
| LTE BAND 25<br>BW: 15M<br>64QAM<br>RB: 1,0  | 1857.5                | 26115 | V            | 14.10       | 9.57         | -6.86      | 16.81        | 33.01 |
|                                             |                       |       | H            | 17.64       | 9.57         | -6.86      | 20.35        | 33.01 |
|                                             | 1882.5                | 26365 | V            | 14.21       | 9.68         | -6.90      | 16.99        | 33.01 |
|                                             |                       |       | H            | 18.18       | 9.68         | -6.90      | <b>20.96</b> | 33.01 |
|                                             | 1907.5                | 26615 | V            | 13.21       | 9.79         | -6.95      | 16.05        | 33.01 |
|                                             |                       |       | H            | 17.50       | 9.79         | -6.95      | 20.34        | 33.01 |
| LTE BAND 25<br>BW: 15M<br>64QAM<br>RB: 1,74 | 1857.5                | 26115 | V            | 13.81       | 9.63         | -6.88      | 16.56        | 33.01 |
|                                             |                       |       | H            | 17.68       | 9.63         | -6.88      | 20.43        | 33.01 |
|                                             | 1882.5                | 26365 | V            | 12.85       | 9.74         | -6.93      | 15.66        | 33.01 |
|                                             |                       |       | H            | 17.15       | 9.74         | -6.93      | 19.96        | 33.01 |
|                                             | 1907.5                | 26615 | V            | 10.70       | 9.84         | -6.97      | 13.57        | 33.01 |
|                                             |                       |       | H            | 15.23       | 9.84         | -6.97      | 18.10        | 33.01 |

**Remark :** (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                         |                       |       | Measurement  |             |              |            |              |       |
|---------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                              | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                             | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE BAND 25<br>BW: 20M<br>QPSK<br>RB: 1,0   | 1860.0                | 26140 | V            | 14.15       | 9.57         | -6.86      | 16.86        | 33.01 |
|                                             |                       |       | H            | 14.94       | 9.57         | -6.86      | 17.65        | 33.01 |
|                                             | 1882.5                | 26365 | V            | 14.60       | 9.67         | -6.90      | 17.37        | 33.01 |
|                                             |                       |       | H            | 14.41       | 9.67         | -6.90      | 17.18        | 33.01 |
|                                             | 1905.0                | 26590 | V            | 13.63       | 9.76         | -6.94      | 16.45        | 33.01 |
|                                             |                       |       | H            | 14.80       | 9.76         | -6.94      | 17.62        | 33.01 |
| LTE BAND 25<br>BW: 20M<br>QPSK<br>RB: 1,99  | 1860.0                | 26140 | V            | 14.30       | 9.65         | -6.89      | 17.06        | 33.01 |
|                                             |                       |       | H            | 14.02       | 9.65         | -6.89      | 16.78        | 33.01 |
|                                             | 1882.5                | 26365 | V            | 12.62       | 9.74         | -6.93      | 15.43        | 33.01 |
|                                             |                       |       | H            | 14.99       | 9.74         | -6.93      | <b>17.80</b> | 33.01 |
|                                             | 1905.0                | 26590 | V            | 10.09       | 9.84         | -6.97      | 12.96        | 33.01 |
|                                             |                       |       | H            | 10.76       | 9.84         | -6.97      | 13.63        | 33.01 |
| LTE BAND 25<br>BW: 20M<br>16QAM<br>RB: 1,0  | 1860.0                | 26140 | V            | 14.14       | 9.57         | -6.86      | 16.85        | 33.01 |
|                                             |                       |       | H            | 14.94       | 9.57         | -6.86      | 17.65        | 33.01 |
|                                             | 1882.5                | 26365 | V            | 14.15       | 9.67         | -6.90      | 16.92        | 33.01 |
|                                             |                       |       | H            | 14.44       | 9.67         | -6.90      | 17.21        | 33.01 |
|                                             | 1905.0                | 26590 | V            | 13.56       | 9.77         | -6.94      | 16.39        | 33.01 |
|                                             |                       |       | H            | 14.80       | 9.77         | -6.94      | 17.63        | 33.01 |
| LTE BAND 25<br>BW: 20M<br>16QAM<br>RB: 1,99 | 1860.0                | 26140 | V            | 14.36       | 9.65         | -6.89      | 17.12        | 33.01 |
|                                             |                       |       | H            | 14.04       | 9.65         | -6.89      | 16.80        | 33.01 |
|                                             | 1882.5                | 26365 | V            | 12.89       | 9.74         | -6.93      | 15.70        | 33.01 |
|                                             |                       |       | H            | 15.09       | 9.74         | -6.93      | <b>17.90</b> | 33.01 |
|                                             | 1905.0                | 26590 | V            | 10.33       | 9.84         | -6.98      | 13.19        | 33.01 |
|                                             |                       |       | H            | 11.10       | 9.84         | -6.98      | 13.96        | 33.01 |
| LTE BAND 25<br>BW: 20M<br>64QAM<br>RB: 1,0  | 1860.0                | 26140 | V            | 14.14       | 9.58         | -6.86      | 16.86        | 33.01 |
|                                             |                       |       | H            | 14.93       | 9.58         | -6.86      | 17.65        | 33.01 |
|                                             | 1882.5                | 26365 | V            | 14.24       | 9.67         | -6.90      | 17.01        | 33.01 |
|                                             |                       |       | H            | 14.48       | 9.67         | -6.90      | 17.25        | 33.01 |
|                                             | 1905.0                | 26590 | V            | 13.65       | 9.77         | -6.94      | 16.48        | 33.01 |
|                                             |                       |       | H            | 14.93       | 9.77         | -6.94      | 17.76        | 33.01 |
| LTE BAND 25<br>BW: 20M<br>64QAM<br>RB: 1,99 | 1860.0                | 26140 | V            | 14.61       | 9.65         | -6.89      | 17.37        | 33.01 |
|                                             |                       |       | H            | 14.35       | 9.65         | -6.89      | 17.11        | 33.01 |
|                                             | 1882.5                | 26365 | V            | 13.00       | 9.75         | -6.94      | 15.81        | 33.01 |
|                                             |                       |       | H            | 15.06       | 9.75         | -6.94      | <b>17.87</b> | 33.01 |
|                                             | 1905.0                | 26590 | V            | 10.45       | 9.84         | -6.98      | 13.31        | 33.01 |
|                                             |                       |       | H            | 10.96       | 9.84         | -6.98      | 13.82        | 33.01 |

**Remark :** (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                            |                       |       | Measurement  |             |              |            |              |       |
|------------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                                                | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 26<br>BW: 1.4M<br>QPSK<br>RB: 1,0  | 824.7                 | 26797 | V            | 17.79       | 5.14         | -5.43      | 17.49        | 38.50 |
|                                                |                       |       | H            | 25.05       | 5.14         | -5.43      | 24.76        | 38.50 |
|                                                | 836.5                 | 26915 | V            | 20.26       | 5.10         | -5.47      | 19.90        | 38.50 |
|                                                |                       |       | H            | 27.92       | 5.10         | -5.47      | <b>27.55</b> | 38.50 |
|                                                | 848.3                 | 27033 | V            | 19.20       | 5.07         | -5.49      | 18.78        | 38.50 |
|                                                |                       |       | H            | 21.49       | 5.07         | -5.50      | 21.07        | 38.50 |
| LTE<br>BAND 26<br>BW: 1.4M<br>QPSK<br>RB: 1,5  | 824.7                 | 26797 | V            | 19.75       | 5.12         | -5.45      | 19.41        | 38.50 |
|                                                |                       |       | H            | 27.37       | 5.12         | -5.45      | 27.04        | 38.50 |
|                                                | 836.5                 | 26915 | V            | 12.77       | 5.09         | -5.47      | 12.39        | 38.50 |
|                                                |                       |       | H            | 20.36       | 5.09         | -5.47      | 19.98        | 38.50 |
|                                                | 848.3                 | 27033 | V            | 13.46       | 5.07         | -5.50      | 13.04        | 38.50 |
|                                                |                       |       | H            | 20.35       | 5.07         | -5.50      | 19.92        | 38.50 |
| LTE<br>BAND 26<br>BW: 1.4M<br>16QAM<br>RB: 1,0 | 824.7                 | 26797 | V            | 19.60       | 5.12         | -5.45      | 19.27        | 38.50 |
|                                                |                       |       | H            | 27.15       | 5.12         | -5.44      | 26.83        | 38.50 |
|                                                | 836.5                 | 26915 | V            | 12.73       | 5.10         | -5.47      | 12.36        | 38.50 |
|                                                |                       |       | H            | 20.10       | 5.10         | -5.47      | 19.73        | 38.50 |
|                                                | 848.3                 | 27033 | V            | 20.37       | 5.07         | -5.49      | 19.95        | 38.50 |
|                                                |                       |       | H            | 27.43       | 5.07         | -5.49      | 27.01        | 38.50 |
| LTE<br>BAND 26<br>BW: 1.4M<br>16QAM<br>RB: 1,5 | 824.7                 | 26797 | V            | 19.89       | 5.12         | -5.45      | 19.56        | 38.50 |
|                                                |                       |       | H            | 27.50       | 5.12         | -5.45      | <b>27.17</b> | 38.50 |
|                                                | 836.5                 | 26915 | V            | 12.94       | 5.10         | -5.47      | 12.57        | 38.50 |
|                                                |                       |       | H            | 20.28       | 5.09         | -5.47      | 19.91        | 38.50 |
|                                                | 848.3                 | 27033 | V            | 13.75       | 5.07         | -5.50      | 13.33        | 38.50 |
|                                                |                       |       | H            | 20.77       | 5.07         | -5.49      | 20.35        | 38.50 |
| LTE<br>BAND 26<br>BW: 1.4M<br>64QAM<br>RB: 1,0 | 824.7                 | 26797 | V            | 20.83       | 5.13         | -5.43      | 20.54        | 38.50 |
|                                                |                       |       | H            | 16.94       | 5.14         | -5.43      | 16.65        | 38.50 |
|                                                | 836.5                 | 26915 | V            | 22.85       | 5.11         | -5.45      | <b>22.50</b> | 38.50 |
|                                                |                       |       | H            | 19.51       | 5.11         | -5.45      | 19.17        | 38.50 |
|                                                | 848.3                 | 27033 | V            | 14.13       | 5.06         | -5.51      | 13.68        | 38.50 |
|                                                |                       |       | H            | 14.64       | 5.06         | -5.51      | 14.19        | 38.50 |
| LTE<br>BAND 26<br>BW: 1.4M<br>64QAM<br>RB: 1,5 | 824.7                 | 26797 | V            | 17.16       | 5.13         | -5.43      | 16.86        | 38.50 |
|                                                |                       |       | H            | 14.97       | 5.13         | -5.43      | 14.67        | 38.50 |
|                                                | 836.5                 | 26915 | V            | 14.57       | 5.10         | -5.47      | 14.20        | 38.50 |
|                                                |                       |       | H            | 13.85       | 5.09         | -5.47      | 13.47        | 38.50 |
|                                                | 848.3                 | 27033 | V            | 14.15       | 5.05         | -5.51      | 13.69        | 38.50 |
|                                                |                       |       | H            | 14.53       | 5.05         | -5.51      | 14.07        | 38.50 |

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                           |                       |       | Measurement  |             |              |            |              |       |
|-----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                                               | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 26<br>BW: 3M<br>QPSK<br>RB: 1,0   | 825.5                 | 26805 | V            | 18.19       | 5.14         | -5.43      | 17.90        | 38.50 |
|                                               |                       |       | H            | 25.60       | 5.14         | -5.43      | 25.31        | 38.50 |
|                                               | 836.5                 | 26915 | V            | 12.37       | 5.10         | -5.47      | 12.01        | 38.50 |
|                                               |                       |       | H            | 19.61       | 5.10         | -5.46      | 19.25        | 38.50 |
|                                               | 847.5                 | 27025 | V            | 12.77       | 5.06         | -5.50      | 12.33        | 38.50 |
|                                               |                       |       | H            | 19.52       | 5.06         | -5.50      | 19.08        | 38.50 |
| LTE<br>BAND 26<br>BW: 3M<br>QPSK<br>RB: 1,14  | 825.5                 | 26805 | V            | 17.82       | 5.13         | -5.44      | 17.51        | 38.50 |
|                                               |                       |       | H            | 26.34       | 5.13         | -5.44      | <b>26.03</b> | 38.50 |
|                                               | 836.5                 | 26915 | V            | 13.19       | 5.09         | -5.47      | 12.81        | 38.50 |
|                                               |                       |       | H            | 20.52       | 5.09         | -5.47      | 20.14        | 38.50 |
|                                               | 847.5                 | 27025 | V            | 13.46       | 5.06         | -5.51      | 13.00        | 38.50 |
|                                               |                       |       | H            | 20.43       | 5.06         | -5.51      | 19.97        | 38.50 |
| LTE<br>BAND 26<br>BW: 3M<br>16QAM<br>RB: 1,0  | 825.5                 | 26805 | V            | 17.90       | 5.14         | -5.43      | 17.61        | 38.50 |
|                                               |                       |       | H            | 25.20       | 5.14         | -5.43      | 24.91        | 38.50 |
|                                               | 836.5                 | 26915 | V            | 11.99       | 5.10         | -5.47      | 11.63        | 38.50 |
|                                               |                       |       | H            | 19.30       | 5.10         | -5.46      | 18.94        | 38.50 |
|                                               | 847.5                 | 27025 | V            | 12.30       | 5.06         | -5.50      | 11.86        | 38.50 |
|                                               |                       |       | H            | 19.36       | 5.07         | -5.50      | 18.92        | 38.50 |
| LTE<br>BAND 26<br>BW: 3M<br>16QAM<br>RB: 1,14 | 825.5                 | 26805 | V            | 19.16       | 5.13         | -5.44      | 18.85        | 38.50 |
|                                               |                       |       | H            | 26.14       | 5.13         | -5.44      | <b>25.84</b> | 38.50 |
|                                               | 836.5                 | 26915 | V            | 13.35       | 5.09         | -5.47      | 12.97        | 38.50 |
|                                               |                       |       | H            | 19.91       | 5.09         | -5.47      | 19.53        | 38.50 |
|                                               | 847.5                 | 27025 | V            | 14.07       | 5.05         | -5.51      | 13.61        | 38.50 |
|                                               |                       |       | H            | 20.41       | 5.06         | -5.51      | 19.96        | 38.50 |
| LTE<br>BAND 26<br>BW: 3M<br>64QAM<br>RB: 1,0  | 825.5                 | 26805 | V            | 19.21       | 5.14         | -5.43      | <b>18.92</b> | 38.50 |
|                                               |                       |       | H            | 17.01       | 5.14         | -5.43      | 16.73        | 38.50 |
|                                               | 836.5                 | 26915 | V            | 16.65       | 5.10         | -5.46      | 16.29        | 38.50 |
|                                               |                       |       | H            | 15.68       | 5.10         | -5.46      | 15.32        | 38.50 |
|                                               | 847.5                 | 27025 | V            | 18.26       | 5.07         | -5.50      | 17.82        | 38.50 |
|                                               |                       |       | H            | 16.38       | 5.06         | -5.50      | 15.94        | 38.50 |
| LTE<br>BAND 26<br>BW: 3M<br>64QAM<br>RB: 1,14 | 825.5                 | 26805 | V            | 18.72       | 5.13         | -5.44      | 18.41        | 38.50 |
|                                               |                       |       | H            | 18.06       | 5.13         | -5.44      | 17.76        | 38.50 |
|                                               | 836.5                 | 26915 | V            | 17.23       | 5.09         | -5.47      | 16.85        | 38.50 |
|                                               |                       |       | H            | 16.46       | 5.09         | -5.47      | 16.07        | 38.50 |
|                                               | 847.5                 | 27025 | V            | 17.14       | 5.06         | -5.51      | 16.69        | 38.50 |
|                                               |                       |       | H            | 15.12       | 5.06         | -5.51      | 14.66        | 38.50 |

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                           |                       |       | Measurement  |             |              |            |              |       |
|-----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                                               | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 26<br>BW: 5M<br>QPSK<br>RB: 1,0   | 826.5                 | 26815 | V            | 18.00       | 5.14         | -5.43      | 17.70        | 38.50 |
|                                               |                       |       | H            | 25.25       | 5.14         | -5.43      | 24.96        | 38.50 |
|                                               | 836.5                 | 26915 | V            | 11.98       | 5.10         | -5.46      | 11.63        | 38.50 |
|                                               |                       |       | H            | 19.24       | 5.10         | -5.46      | 18.88        | 38.50 |
|                                               | 846.5                 | 27015 | V            | 13.37       | 5.07         | -5.50      | 12.94        | 38.50 |
|                                               |                       |       | H            | 19.94       | 5.07         | -5.50      | 19.51        | 38.50 |
| LTE<br>BAND 26<br>BW: 5M<br>QPSK<br>RB: 1,24  | 826.5                 | 26815 | V            | 19.81       | 5.12         | -5.45      | 19.49        | 38.50 |
|                                               |                       |       | H            | 26.48       | 5.12         | -5.45      | <b>26.16</b> | 38.50 |
|                                               | 836.5                 | 26915 | V            | 13.60       | 5.09         | -5.47      | 13.22        | 38.50 |
|                                               |                       |       | H            | 20.63       | 5.09         | -5.48      | 20.25        | 38.50 |
|                                               | 846.5                 | 27015 | V            | 13.91       | 5.06         | -5.51      | 13.46        | 38.50 |
|                                               |                       |       | H            | 20.24       | 5.06         | -5.51      | 19.79        | 38.50 |
| LTE<br>BAND 26<br>BW: 5M<br>16QAM<br>RB: 1,0  | 826.5                 | 26815 | V            | 18.17       | 5.14         | -5.43      | 17.88        | 38.50 |
|                                               |                       |       | H            | 24.97       | 5.14         | -5.43      | 24.68        | 38.50 |
|                                               | 836.5                 | 26915 | V            | 11.98       | 5.10         | -5.46      | 11.62        | 38.50 |
|                                               |                       |       | H            | 18.68       | 5.10         | -5.46      | 18.32        | 38.50 |
|                                               | 846.5                 | 27015 | V            | 13.22       | 5.07         | -5.49      | 12.80        | 38.50 |
|                                               |                       |       | H            | 19.49       | 5.07         | -5.50      | 19.06        | 38.50 |
| LTE<br>BAND 26<br>BW: 5M<br>16QAM<br>RB: 1,24 | 826.5                 | 26815 | V            | 19.71       | 5.12         | -5.44      | 19.38        | 38.50 |
|                                               |                       |       | H            | 26.47       | 5.12         | -5.44      | <b>26.15</b> | 38.50 |
|                                               | 836.5                 | 26915 | V            | 13.60       | 5.09         | -5.47      | 13.22        | 38.50 |
|                                               |                       |       | H            | 20.21       | 5.09         | -5.48      | 19.82        | 38.50 |
|                                               | 846.5                 | 27015 | V            | 13.55       | 5.06         | -5.51      | 13.10        | 38.50 |
|                                               |                       |       | H            | 19.58       | 5.06         | -5.51      | 19.12        | 38.50 |
| LTE<br>BAND 26<br>BW: 5M<br>64QAM<br>RB: 1,0  | 826.5                 | 26815 | V            | 19.47       | 5.14         | -5.42      | 19.18        | 38.50 |
|                                               |                       |       | H            | 16.91       | 5.14         | -5.43      | 16.62        | 38.50 |
|                                               | 836.5                 | 26915 | V            | 15.61       | 5.10         | -5.46      | 15.25        | 38.50 |
|                                               |                       |       | H            | 15.81       | 5.10         | -5.46      | 15.45        | 38.50 |
|                                               | 846.5                 | 27015 | V            | 16.76       | 5.06         | -5.50      | 16.31        | 38.50 |
|                                               |                       |       | H            | 16.52       | 5.06         | -5.50      | 16.08        | 38.50 |
| LTE<br>BAND 26<br>BW: 5M<br>64QAM<br>RB: 1,24 | 826.5                 | 26815 | V            | 19.47       | 5.14         | -5.43      | <b>19.18</b> | 38.50 |
|                                               |                       |       | H            | 17.08       | 5.14         | -5.43      | 16.79        | 38.50 |
|                                               | 836.5                 | 26915 | V            | 17.06       | 5.09         | -5.47      | 16.67        | 38.50 |
|                                               |                       |       | H            | 16.40       | 5.09         | -5.47      | 16.02        | 38.50 |
|                                               | 846.5                 | 27015 | V            | 14.83       | 5.06         | -5.51      | 14.38        | 38.50 |
|                                               |                       |       | H            | 15.18       | 5.06         | -5.51      | 14.73        | 38.50 |

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                            |                       |       | Measurement  |             |              |            |              |       |
|------------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                                                | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 26<br>BW: 10M<br>QPSK<br>RB: 1,0   | 829.0                 | 26840 | V            | 18.35       | 5.14         | -5.43      | 18.06        | 38.50 |
|                                                |                       |       | H            | 25.22       | 5.14         | -5.43      | 24.93        | 38.50 |
|                                                | 836.5                 | 26915 | V            | 11.79       | 5.11         | -5.45      | 11.45        | 38.50 |
|                                                |                       |       | H            | 26.91       | 5.11         | -5.46      | <b>26.56</b> | 38.50 |
|                                                | 844.0                 | 26990 | V            | 19.07       | 5.09         | -5.48      | 18.68        | 38.50 |
|                                                |                       |       | H            | 26.15       | 5.08         | -5.48      | 25.75        | 38.50 |
| LTE<br>BAND 26<br>BW: 10M<br>QPSK<br>RB: 1,49  | 829.0                 | 26840 | V            | 11.37       | 5.11         | -5.46      | 11.01        | 38.50 |
|                                                |                       |       | H            | 20.70       | 5.11         | -5.46      | 20.34        | 38.50 |
|                                                | 836.5                 | 26915 | V            | 19.60       | 5.08         | -5.48      | 19.20        | 38.50 |
|                                                |                       |       | H            | 26.90       | 5.08         | -5.48      | 26.50        | 38.50 |
|                                                | 844.0                 | 26990 | V            | 12.88       | 5.06         | -5.51      | 12.43        | 38.50 |
|                                                |                       |       | H            | 19.60       | 5.06         | -5.51      | 19.15        | 38.50 |
| LTE<br>BAND 26<br>BW: 10M<br>16QAM<br>RB: 1,0  | 829.0                 | 26840 | V            | 13.30       | 5.13         | -5.43      | 13.00        | 38.50 |
|                                                |                       |       | H            | 25.71       | 5.14         | -5.43      | <b>25.42</b> | 38.50 |
|                                                | 836.5                 | 26915 | V            | 12.35       | 5.11         | -5.46      | 12.00        | 38.50 |
|                                                |                       |       | H            | 19.38       | 5.11         | -5.45      | 19.04        | 38.50 |
|                                                | 844.0                 | 26990 | V            | 19.38       | 5.09         | -5.48      | 18.98        | 38.50 |
|                                                |                       |       | H            | 24.97       | 5.09         | -5.48      | 24.58        | 38.50 |
| LTE<br>BAND 26<br>BW: 10M<br>16QAM<br>RB: 1,49 | 829.0                 | 26840 | V            | 11.85       | 5.11         | -5.46      | 11.50        | 38.50 |
|                                                |                       |       | H            | 18.91       | 5.11         | -5.46      | 18.56        | 38.50 |
|                                                | 836.5                 | 26915 | V            | 19.98       | 5.08         | -5.48      | 19.58        | 38.50 |
|                                                |                       |       | H            | 20.46       | 5.11         | -5.46      | 20.10        | 38.50 |
|                                                | 844.0                 | 26990 | V            | 13.22       | 5.06         | -5.51      | 12.77        | 38.50 |
|                                                |                       |       | H            | 19.49       | 5.06         | -5.51      | 19.03        | 38.50 |
| LTE<br>BAND 26<br>BW: 10M<br>64QAM<br>RB: 1,0  | 829.0                 | 26840 | V            | 19.47       | 5.14         | -5.43      | <b>19.18</b> | 38.50 |
|                                                |                       |       | H            | 17.02       | 5.13         | -5.43      | 16.72        | 38.50 |
|                                                | 836.5                 | 26915 | V            | 17.84       | 5.11         | -5.46      | 17.49        | 38.50 |
|                                                |                       |       | H            | 16.49       | 5.11         | -5.46      | 16.14        | 38.50 |
|                                                | 844.0                 | 26990 | V            | 17.03       | 5.09         | -5.48      | 16.64        | 38.50 |
|                                                |                       |       | H            | 16.42       | 5.09         | -5.48      | 16.03        | 38.50 |
| LTE<br>BAND 26<br>BW: 10M<br>64QAM<br>RB: 1,49 | 829.0                 | 26840 | V            | 17.65       | 5.11         | -5.45      | 17.31        | 38.50 |
|                                                |                       |       | H            | 14.85       | 5.11         | -5.45      | 14.49        | 38.50 |
|                                                | 836.5                 | 26915 | V            | 16.78       | 5.08         | -5.48      | 16.39        | 38.50 |
|                                                |                       |       | H            | 15.36       | 5.08         | -5.48      | 14.96        | 38.50 |
|                                                | 844.0                 | 26990 | V            | 14.87       | 5.06         | -5.51      | 14.41        | 38.50 |
|                                                |                       |       | H            | 17.33       | 5.05         | -5.51      | 16.87        | 38.50 |

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                            |                       |       | Measurement  |             |              |            |              |       |
|------------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                                                | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 26<br>BW: 15M<br>QPSK<br>RB: 1,0   | 831.5                 | 26865 | V            | 18.68       | 5.13         | -5.43      | 18.39        | 38.50 |
|                                                |                       |       | H            | 20.10       | 5.13         | -5.43      | 19.81        | 38.50 |
|                                                | 836.5                 | 26915 | V            | 19.15       | 5.12         | -5.45      | 18.81        | 38.50 |
|                                                |                       |       | H            | 27.06       | 5.12         | -5.45      | <b>26.73</b> | 38.50 |
|                                                | 841.5                 | 26965 | V            | 12.01       | 5.10         | -5.46      | 11.65        | 38.50 |
|                                                |                       |       | H            | 20.38       | 5.10         | -5.47      | 20.01        | 38.50 |
| LTE<br>BAND 26<br>BW: 15M<br>QPSK<br>RB: 1,74  | 831.5                 | 26865 | V            | 13.04       | 5.09         | -5.47      | 12.66        | 38.50 |
|                                                |                       |       | H            | 23.09       | 5.09         | -5.47      | 22.71        | 38.50 |
|                                                | 836.5                 | 26915 | V            | 13.91       | 5.07         | -5.49      | 13.49        | 38.50 |
|                                                |                       |       | H            | 25.07       | 5.07         | -5.49      | 24.66        | 38.50 |
|                                                | 841.5                 | 26965 | V            | 12.91       | 5.06         | -5.51      | 12.45        | 38.50 |
|                                                |                       |       | H            | 19.02       | 5.06         | -5.51      | 18.56        | 38.50 |
| LTE<br>BAND 26<br>BW: 15M<br>16QAM<br>RB: 1,0  | 831.5                 | 26865 | V            | 13.34       | 5.14         | -5.43      | 13.05        | 38.50 |
|                                                |                       |       | H            | 25.43       | 5.14         | -5.43      | 25.13        | 38.50 |
|                                                | 836.5                 | 26915 | V            | 20.31       | 5.12         | -5.45      | 19.97        | 38.50 |
|                                                |                       |       | H            | 27.05       | 5.12         | -5.45      | <b>26.72</b> | 38.50 |
|                                                | 841.5                 | 26965 | V            | 12.11       | 5.10         | -5.46      | 11.75        | 38.50 |
|                                                |                       |       | H            | 18.77       | 5.10         | -5.46      | 18.41        | 38.50 |
| LTE<br>BAND 26<br>BW: 15M<br>16QAM<br>RB: 1,74 | 831.5                 | 26865 | V            | 15.99       | 5.09         | -5.47      | 15.61        | 38.50 |
|                                                |                       |       | H            | 26.82       | 5.08         | -5.49      | 26.40        | 38.50 |
|                                                | 836.5                 | 26915 | V            | 20.26       | 5.07         | -5.49      | 19.85        | 38.50 |
|                                                |                       |       | H            | 26.82       | 5.07         | -5.49      | 26.40        | 38.50 |
|                                                | 841.5                 | 26965 | V            | 13.14       | 5.06         | -5.51      | 12.69        | 38.50 |
|                                                |                       |       | H            | 19.09       | 5.06         | -5.51      | 18.64        | 38.50 |
| LTE<br>BAND 26<br>BW: 15M<br>64QAM<br>RB: 1,0  | 831.5                 | 26865 | V            | 19.58       | 5.13         | -5.43      | <b>19.28</b> | 38.50 |
|                                                |                       |       | H            | 17.06       | 5.14         | -5.43      | 16.77        | 38.50 |
|                                                | 836.5                 | 26915 | V            | 18.70       | 5.12         | -5.45      | 18.36        | 38.50 |
|                                                |                       |       | H            | 17.04       | 5.12         | -5.45      | 16.71        | 38.50 |
|                                                | 841.5                 | 26965 | V            | 16.79       | 5.10         | -5.46      | 16.43        | 38.50 |
|                                                |                       |       | H            | 15.65       | 5.10         | -5.46      | 15.29        | 38.50 |
| LTE<br>BAND 26<br>BW: 15M<br>64QAM<br>RB: 1,74 | 831.5                 | 26865 | V            | 17.02       | 5.09         | -5.47      | 16.63        | 38.50 |
|                                                |                       |       | H            | 16.28       | 5.09         | -5.47      | 15.89        | 38.50 |
|                                                | 836.5                 | 26915 | V            | 15.27       | 5.07         | -5.49      | 14.83        | 38.50 |
|                                                |                       |       | H            | 14.66       | 5.08         | -5.49      | 14.25        | 38.50 |
|                                                | 841.5                 | 26965 | V            | 12.78       | 5.06         | -5.51      | 12.32        | 38.50 |
|                                                |                       |       | H            | 13.10       | 5.06         | -5.51      | 12.65        | 38.50 |

Remark : (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                            |                       |       | Measurement  |             |              |            |              |       |
|------------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                                                | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 26<br>BW: 1.4M<br>QPSK<br>RB: 1,0  | 814.7                 | 26697 | V            | 19.10       | 5.17         | -5.39      | 18.88        | 50.00 |
|                                                |                       |       | H            | 25.95       | 5.17         | -5.39      | <b>25.73</b> | 50.00 |
|                                                | 819.0                 | 26740 | V            | 11.73       | 5.16         | -5.41      | 11.48        | 50.00 |
|                                                |                       |       | H            | 18.52       | 5.16         | -5.41      | 18.27        | 50.00 |
|                                                | 823.3                 | 26783 | V            | 13.09       | 5.14         | -5.42      | 12.81        | 50.00 |
|                                                |                       |       | H            | 25.10       | 5.14         | -5.42      | 24.82        | 50.00 |
| LTE<br>BAND 26<br>BW: 1.4M<br>QPSK<br>RB: 1,5  | 814.7                 | 26697 | V            | 18.92       | 5.17         | -5.39      | 18.70        | 50.00 |
|                                                |                       |       | H            | 25.82       | 5.17         | -5.39      | 25.60        | 50.00 |
|                                                | 819.0                 | 26740 | V            | 11.86       | 5.15         | -5.41      | 11.60        | 50.00 |
|                                                |                       |       | H            | 18.69       | 5.15         | -5.41      | 18.43        | 50.00 |
|                                                | 823.3                 | 26783 | V            | 18.25       | 5.14         | -5.42      | 17.97        | 50.00 |
|                                                |                       |       | H            | 25.06       | 5.14         | -5.42      | 24.78        | 50.00 |
| LTE<br>BAND 26<br>BW: 1.4M<br>16QAM<br>RB: 1,0 | 814.7                 | 26697 | V            | 15.06       | 5.17         | -5.39      | 14.84        | 50.00 |
|                                                |                       |       | H            | 25.75       | 5.17         | -5.39      | <b>25.53</b> | 50.00 |
|                                                | 819.0                 | 26740 | V            | 11.77       | 5.16         | -5.40      | 11.53        | 50.00 |
|                                                |                       |       | H            | 18.59       | 5.16         | -5.40      | 18.35        | 50.00 |
|                                                | 823.3                 | 26783 | V            | 17.91       | 5.14         | -5.42      | 17.63        | 50.00 |
|                                                |                       |       | H            | 23.96       | 5.14         | -5.42      | 23.68        | 50.00 |
| LTE<br>BAND 26<br>BW: 1.4M<br>16QAM<br>RB: 1,5 | 814.7                 | 26697 | V            | 18.06       | 5.17         | -5.39      | 17.84        | 50.00 |
|                                                |                       |       | H            | 25.26       | 5.17         | -5.39      | 25.04        | 50.00 |
|                                                | 819.0                 | 26740 | V            | 11.93       | 5.15         | -5.41      | 11.67        | 50.00 |
|                                                |                       |       | H            | 18.80       | 5.15         | -5.41      | 18.54        | 50.00 |
|                                                | 823.3                 | 26783 | V            | 17.86       | 5.14         | -5.43      | 17.57        | 50.00 |
|                                                |                       |       | H            | 19.93       | 5.14         | -5.43      | 19.64        | 50.00 |
| LTE<br>BAND 26<br>BW: 1.4M<br>64QAM<br>RB: 1,0 | 814.7                 | 26697 | V            | 20.47       | 5.17         | -5.39      | 20.25        | 50.00 |
|                                                |                       |       | H            | 16.05       | 5.17         | -5.39      | 15.83        | 50.00 |
|                                                | 819.0                 | 26740 | V            | 21.40       | 5.16         | -5.40      | <b>21.15</b> | 50.00 |
|                                                |                       |       | H            | 16.94       | 5.16         | -5.41      | 16.70        | 50.00 |
|                                                | 823.3                 | 26783 | V            | 19.74       | 5.14         | -5.42      | 19.46        | 50.00 |
|                                                |                       |       | H            | 16.69       | 5.14         | -5.42      | 16.41        | 50.00 |
| LTE<br>BAND 26<br>BW: 1.4M<br>64QAM<br>RB: 1,5 | 814.7                 | 26697 | V            | 20.90       | 5.17         | -5.39      | 20.68        | 50.00 |
|                                                |                       |       | H            | 16.39       | 5.17         | -5.39      | 16.18        | 50.00 |
|                                                | 819.0                 | 26740 | V            | 20.55       | 5.15         | -5.41      | 20.30        | 50.00 |
|                                                |                       |       | H            | 16.72       | 5.15         | -5.41      | 16.47        | 50.00 |
|                                                | 823.3                 | 26783 | V            | 19.62       | 5.14         | -5.43      | 19.33        | 50.00 |
|                                                |                       |       | H            | 16.80       | 5.14         | -5.43      | 16.51        | 50.00 |

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| EUT                                           |                       |       | Measurement  |             |              |            |              |       |
|-----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                                               | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 26<br>BW: 3M<br>QPSK<br>RB: 1,0   | 815.5                 | 26705 | V            | 13.21       | 5.17         | -5.39      | 12.99        | 50.00 |
|                                               |                       |       | H            | 18.99       | 5.17         | -5.39      | 18.77        | 50.00 |
|                                               | 819.0                 | 26740 | V            | 11.55       | 5.16         | -5.40      | 11.31        | 50.00 |
|                                               |                       |       | H            | 18.48       | 5.16         | -5.40      | 18.24        | 50.00 |
|                                               | 822.5                 | 26775 | V            | 12.45       | 5.15         | -5.42      | 12.18        | 50.00 |
|                                               |                       |       | H            | 19.27       | 5.15         | -5.42      | <b>19.00</b> | 50.00 |
| LTE<br>BAND 26<br>BW: 3M<br>QPSK<br>RB: 1,14  | 815.5                 | 26705 | V            | 11.28       | 5.16         | -5.40      | 11.04        | 50.00 |
|                                               |                       |       | H            | 18.21       | 5.16         | -5.40      | 17.97        | 50.00 |
|                                               | 819.0                 | 26740 | V            | 12.05       | 5.15         | -5.41      | 11.79        | 50.00 |
|                                               |                       |       | H            | 18.94       | 5.15         | -5.41      | 18.68        | 50.00 |
|                                               | 822.5                 | 26775 | V            | 11.92       | 5.15         | -5.42      | 11.65        | 50.00 |
|                                               |                       |       | H            | 18.37       | 5.15         | -5.42      | 18.10        | 50.00 |
| LTE<br>BAND 26<br>BW: 3M<br>16QAM<br>RB: 1,0  | 815.5                 | 26705 | V            | 11.47       | 5.17         | -5.39      | 11.25        | 50.00 |
|                                               |                       |       | H            | 25.62       | 5.17         | -5.39      | <b>25.40</b> | 50.00 |
|                                               | 819.0                 | 26740 | V            | 11.62       | 5.16         | -5.40      | 11.38        | 50.00 |
|                                               |                       |       | H            | 18.45       | 5.16         | -5.40      | 18.21        | 50.00 |
|                                               | 822.5                 | 26775 | V            | 15.08       | 5.15         | -5.42      | 14.81        | 50.00 |
|                                               |                       |       | H            | 19.28       | 5.15         | -5.42      | 19.01        | 50.00 |
| LTE<br>BAND 26<br>BW: 3M<br>16QAM<br>RB: 1,14 | 815.5                 | 26705 | V            | 14.92       | 5.17         | -5.40      | 14.69        | 50.00 |
|                                               |                       |       | H            | 21.97       | 5.17         | -5.40      | 21.74        | 50.00 |
|                                               | 819.0                 | 26740 | V            | 15.66       | 5.15         | -5.41      | 15.40        | 50.00 |
|                                               |                       |       | H            | 18.95       | 5.15         | -5.41      | 18.69        | 50.00 |
|                                               | 822.5                 | 26775 | V            | 18.29       | 5.14         | -5.43      | 18.00        | 50.00 |
|                                               |                       |       | H            | 25.23       | 5.14         | -5.43      | 24.94        | 50.00 |
| LTE<br>BAND 26<br>BW: 3M<br>64QAM<br>RB: 1,0  | 815.5                 | 26705 | V            | 20.46       | 5.17         | -5.39      | 20.24        | 50.00 |
|                                               |                       |       | H            | 16.01       | 5.17         | -5.39      | 15.79        | 50.00 |
|                                               | 819.0                 | 26740 | V            | 21.26       | 5.16         | -5.40      | <b>21.01</b> | 50.00 |
|                                               |                       |       | H            | 16.93       | 5.16         | -5.40      | 16.68        | 50.00 |
|                                               | 822.5                 | 26775 | V            | 20.04       | 5.15         | -5.42      | 19.77        | 50.00 |
|                                               |                       |       | H            | 16.44       | 5.15         | -5.42      | 16.17        | 50.00 |
| LTE<br>BAND 26<br>BW: 3M<br>64QAM<br>RB: 1,14 | 815.5                 | 26705 | V            | 20.99       | 5.16         | -5.40      | 20.75        | 50.00 |
|                                               |                       |       | H            | 16.60       | 5.16         | -5.40      | 16.37        | 50.00 |
|                                               | 819.0                 | 26740 | V            | 20.21       | 5.15         | -5.41      | 19.94        | 50.00 |
|                                               |                       |       | H            | 16.38       | 5.15         | -5.41      | 16.12        | 50.00 |
|                                               | 822.5                 | 26775 | V            | 20.64       | 5.14         | -5.43      | 20.35        | 50.00 |
|                                               |                       |       | H            | 16.57       | 5.14         | -5.43      | 16.28        | 50.00 |

Remark : (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                           |                       |       | Measurement  |             |              |            |              |       |
|-----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                                               | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 26<br>BW: 5M<br>QPSK<br>RB: 1,0   | 816.5                 | 26715 | V            | 18.85       | 5.17         | -5.39      | 18.63        | 50.00 |
|                                               |                       |       | H            | 21.56       | 5.17         | -5.39      | 21.34        | 50.00 |
|                                               | 819.0                 | 26740 | V            | 10.86       | 5.16         | -5.40      | 10.62        | 50.00 |
|                                               |                       |       | H            | 17.86       | 5.16         | -5.40      | 17.62        | 50.00 |
|                                               | 821.5                 | 26765 | V            | 11.43       | 5.15         | -5.41      | 11.17        | 50.00 |
|                                               |                       |       | H            | 18.47       | 5.15         | -5.41      | 18.21        | 50.00 |
| LTE<br>BAND 26<br>BW: 5M<br>QPSK<br>RB: 1,24  | 816.5                 | 26715 | V            | 14.74       | 5.16         | -5.40      | 14.50        | 50.00 |
|                                               |                       |       | H            | 21.53       | 5.16         | -5.40      | 21.29        | 50.00 |
|                                               | 819.0                 | 26740 | V            | 11.61       | 5.15         | -5.42      | 11.34        | 50.00 |
|                                               |                       |       | H            | 18.57       | 5.15         | -5.42      | 18.30        | 50.00 |
|                                               | 821.5                 | 26765 | V            | 17.64       | 5.14         | -5.42      | 17.36        | 50.00 |
|                                               |                       |       | H            | 24.77       | 5.14         | -5.42      | <b>24.49</b> | 50.00 |
| LTE<br>BAND 26<br>BW: 5M<br>16QAM<br>RB: 1,0  | 816.5                 | 26715 | V            | 11.17       | 5.17         | -5.39      | 10.95        | 50.00 |
|                                               |                       |       | H            | 18.00       | 5.17         | -5.39      | 17.78        | 50.00 |
|                                               | 819.0                 | 26740 | V            | 13.46       | 5.16         | -5.40      | 13.22        | 50.00 |
|                                               |                       |       | H            | 17.88       | 5.16         | -5.40      | 17.64        | 50.00 |
|                                               | 821.5                 | 26765 | V            | 13.27       | 5.15         | -5.41      | 13.01        | 50.00 |
|                                               |                       |       | H            | 18.53       | 5.15         | -5.41      | 18.27        | 50.00 |
| LTE<br>BAND 26<br>BW: 5M<br>16QAM<br>RB: 1,24 | 816.5                 | 26715 | V            | 13.91       | 5.16         | -5.4       | 13.67        | 50.00 |
|                                               |                       |       | H            | 21.51       | 5.16         | -5.4       | 21.27        | 50.00 |
|                                               | 819.0                 | 26740 | V            | 15.17       | 5.15         | -5.42      | 14.90        | 50.00 |
|                                               |                       |       | H            | 18.61       | 5.15         | -5.42      | 18.34        | 50.00 |
|                                               | 821.5                 | 26765 | V            | 17.53       | 5.14         | -5.43      | 17.24        | 50.00 |
|                                               |                       |       | H            | 24.74       | 5.14         | -5.43      | <b>24.45</b> | 50.00 |
| LTE<br>BAND 26<br>BW: 5M<br>64QAM<br>RB: 1,0  | 816.5                 | 26715 | V            | 20.98       | 5.16         | -5.40      | <b>20.74</b> | 50.00 |
|                                               |                       |       | H            | 16.61       | 5.16         | -5.40      | 16.38        | 50.00 |
|                                               | 819.0                 | 26740 | V            | 20.96       | 5.16         | -5.40      | 20.72        | 50.00 |
|                                               |                       |       | H            | 16.58       | 5.16         | -5.40      | 16.35        | 50.00 |
|                                               | 821.5                 | 26765 | V            | 20.42       | 5.15         | -5.41      | 20.17        | 50.00 |
|                                               |                       |       | H            | 16.50       | 5.15         | -5.41      | 16.25        | 50.00 |
| LTE<br>BAND 26<br>BW: 5M<br>64QAM<br>RB: 1,24 | 816.5                 | 26715 | V            | 20.84       | 5.16         | -5.41      | 20.60        | 50.00 |
|                                               |                       |       | H            | 16.73       | 5.16         | -5.41      | 16.48        | 50.00 |
|                                               | 819.0                 | 26740 | V            | 19.97       | 5.15         | -5.42      | 19.70        | 50.00 |
|                                               |                       |       | H            | 16.43       | 5.15         | -5.41      | 16.16        | 50.00 |
|                                               | 821.5                 | 26765 | V            | 19.65       | 5.14         | -5.43      | 19.36        | 50.00 |
|                                               |                       |       | H            | 16.70       | 5.14         | -5.43      | 16.41        | 50.00 |

**Remark :** (1) The RBW, VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                    |                       |       | Measurement  |             |              |            |              |       |
|------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band         | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
| LTE BAND 26<br>BW: 10M | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| QPSK<br>RB: 1,0        | 819.0                 | 26740 | V            | 18.81       | 5.17         | -5.39      | 18.59        | 50.00 |
|                        |                       |       | H            | 26.26       | 5.17         | -5.39      | <b>26.04</b> | 50.00 |
| QPSK<br>RB: 1,49       | 819.0                 | 26740 | V            | 17.87       | 5.14         | -5.42      | 17.59        | 50.00 |
|                        |                       |       | H            | 24.89       | 5.14         | -5.42      | 24.61        | 50.00 |
| 16QAM<br>RB: 1,0       | 819.0                 | 26740 | V            | 17.86       | 5.17         | -5.39      | 17.64        | 50.00 |
|                        |                       |       | H            | 21.73       | 5.17         | -5.39      | <b>21.51</b> | 50.00 |
| 16QAM<br>RB: 1,49      | 819.0                 | 26740 | V            | 18.31       | 5.14         | -5.42      | 18.03        | 50.00 |
|                        |                       |       | H            | 19.19       | 5.14         | -5.42      | 18.91        | 50.00 |
| 64QAM<br>RB: 1,0       | 819.0                 | 26740 | V            | 20.58       | 5.17         | -5.39      | <b>20.36</b> | 50.00 |
|                        |                       |       | H            | 16.08       | 5.17         | -5.39      | 15.86        | 50.00 |
| 64QAM<br>RB: 1,49      | 819.0                 | 26740 | V            | 19.64       | 5.14         | -5.42      | 19.36        | 50.00 |
|                        |                       |       | H            | 16.62       | 5.14         | -5.43      | 16.33        | 50.00 |

**Remark :** ( 1 )The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                           |                       |       | Measurement  |             |              |            |              |       |
|-----------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                               | MHz                   |       | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| LTE<br>BAND 30<br>BW: 5M<br>QPSK<br>RB: 1,0   | 2307.5                | 27685 | V            | 11.74       | 10.51        | -7.59      | 14.66        | 23.99 |
|                                               |                       |       | H            | 19.19       | 10.51        | -7.59      | 22.11        | 23.99 |
|                                               | 2310.0                | 27710 | V            | 12.39       | 10.51        | -7.59      | 15.31        | 23.99 |
|                                               |                       |       | H            | 18.85       | 10.51        | -7.59      | 21.76        | 23.99 |
|                                               | 2312.5                | 27735 | V            | 11.65       | 10.51        | -7.59      | 14.57        | 23.99 |
|                                               |                       |       | H            | 19.40       | 10.51        | -7.59      | <b>22.32</b> | 23.99 |
| LTE<br>BAND 30<br>BW: 5M<br>QPSK<br>RB: 1,24  | 2307.5                | 27685 | V            | 12.17       | 10.51        | -7.59      | 15.09        | 23.99 |
|                                               |                       |       | H            | 18.43       | 10.51        | -7.59      | 21.34        | 23.99 |
|                                               | 2310.0                | 27710 | V            | 12.33       | 10.51        | -7.60      | 15.25        | 23.99 |
|                                               |                       |       | H            | 18.52       | 10.51        | -7.60      | 21.43        | 23.99 |
|                                               | 2312.5                | 27735 | V            | 12.18       | 10.51        | -7.60      | 15.10        | 23.99 |
|                                               |                       |       | H            | 19.34       | 10.51        | -7.60      | 22.26        | 23.99 |
| LTE<br>BAND 30<br>BW: 5M<br>16QAM<br>RB: 1,0  | 2307.5                | 27685 | V            | 12.59       | 10.51        | -7.59      | 15.51        | 23.99 |
|                                               |                       |       | H            | 20.31       | 10.51        | -7.59      | <b>23.23</b> | 23.99 |
|                                               | 2310.0                | 27710 | V            | 12.44       | 10.51        | -7.59      | 15.35        | 23.99 |
|                                               |                       |       | H            | 19.01       | 10.51        | -7.59      | 21.93        | 23.99 |
|                                               | 2312.5                | 27735 | V            | 12.03       | 10.51        | -7.59      | 14.94        | 23.99 |
|                                               |                       |       | H            | 20.16       | 10.51        | -7.59      | 23.08        | 23.99 |
| LTE<br>BAND 30<br>BW: 5M<br>16QAM<br>RB: 1,24 | 2307.5                | 27685 | V            | 12.32       | 10.51        | -7.59      | 15.24        | 23.99 |
|                                               |                       |       | H            | 18.67       | 10.51        | -7.59      | 21.59        | 23.99 |
|                                               | 2310.0                | 27710 | V            | 12.39       | 10.51        | -7.60      | 15.31        | 23.99 |
|                                               |                       |       | H            | 18.64       | 10.51        | -7.60      | 21.56        | 23.99 |
|                                               | 2312.5                | 27735 | V            | 12.01       | 10.51        | -7.60      | 14.92        | 23.99 |
|                                               |                       |       | H            | 19.99       | 10.51        | -7.60      | 22.91        | 23.99 |
| LTE<br>BAND 30<br>BW: 5M<br>64QAM<br>RB: 1,0  | 2307.5                | 27685 | V            | 12.67       | 10.51        | -7.59      | 15.59        | 23.99 |
|                                               |                       |       | H            | 19.53       | 10.51        | -7.59      | 22.45        | 23.99 |
|                                               | 2310.0                | 27710 | V            | 12.50       | 10.51        | -7.59      | 15.42        | 23.99 |
|                                               |                       |       | H            | 19.11       | 10.51        | -7.59      | 22.03        | 23.99 |
|                                               | 2312.5                | 27735 | V            | 11.90       | 10.51        | -7.59      | 14.81        | 23.99 |
|                                               |                       |       | H            | 20.13       | 10.51        | -7.59      | <b>23.05</b> | 23.99 |
| LTE<br>BAND 30<br>BW: 5M<br>64QAM<br>RB: 1,24 | 2307.5                | 27685 | V            | 12.34       | 10.51        | -7.59      | 15.26        | 23.99 |
|                                               |                       |       | H            | 18.89       | 10.51        | -7.59      | 21.81        | 23.99 |
|                                               | 2310.0                | 27710 | V            | 12.29       | 10.51        | -7.60      | 15.20        | 23.99 |
|                                               |                       |       | H            | 18.75       | 10.51        | -7.60      | 21.67        | 23.99 |
|                                               | 2312.5                | 27735 | V            | 11.84       | 10.51        | -7.60      | 14.75        | 23.99 |
|                                               |                       |       | H            | 20.07       | 10.51        | -7.60      | 22.99        | 23.99 |

Remark : <sup>2</sup>A for frequency RBW= 5MHz , VBW= 5MHz

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| EUT                    |                       |       | Measurement  |             |              |            |              |       |
|------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band         | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
| LTE BAND 30<br>BW: 10M | MHz                   |       | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| QPSK<br>RB: 1,0        | 2310.0                | 27710 | V            | 12.89       | 10.51        | -7.59      | 15.81        | 23.99 |
|                        |                       |       | H            | 20.64       | 10.51        | -7.59      | <b>23.55</b> | 23.99 |
| QPSK<br>RB: 1,49       | 2310.0                | 27710 | V            | 12.94       | 10.51        | -7.60      | 15.85        | 23.99 |
|                        |                       |       | H            | 19.54       | 10.51        | -7.60      | 22.45        | 23.99 |
| 16QAM<br>RB: 1,0       | 2310.0                | 27710 | V            | 12.70       | 10.51        | -7.59      | 15.61        | 23.99 |
|                        |                       |       | H            | 20.57       | 10.51        | -7.59      | <b>23.49</b> | 23.99 |
| 16QAM<br>RB: 1,49      | 2310.0                | 27710 | V            | 13.08       | 10.51        | -7.60      | 16.00        | 23.99 |
|                        |                       |       | H            | 20.14       | 10.51        | -7.60      | 23.05        | 23.99 |
| 64QAM<br>RB: 1,0       | 2310.0                | 27710 | V            | 12.82       | 10.51        | -7.59      | 15.74        | 23.99 |
|                        |                       |       | H            | 20.47       | 10.51        | -7.59      | <b>23.38</b> | 23.99 |
| 64QAM<br>RB: 1,49      | 2310.0                | 27710 | V            | 12.94       | 10.51        | -7.60      | 15.86        | 23.99 |
|                        |                       |       | H            | 19.69       | 10.51        | -7.60      | 22.61        | 23.99 |

Remark : <sup>2</sup>A for frequency RBW= 5MHz , VBW= 5MHz

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| EUT                                        |                       |       | Measurement  |             |              |            |              |       |
|--------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                             | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                            | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE BAND 41<br>BW: 5M<br>QPSK<br>RB: 1,0   | 2498.5                | 39675 | V            | 19.02       | 10.70        | -7.83      | 21.90        | 33.00 |
|                                            |                       |       | H            | 19.21       | 10.70        | -7.83      | 22.08        | 33.00 |
|                                            | 2593.0                | 40620 | V            | 19.86       | 10.81        | -7.93      | 22.74        | 33.00 |
|                                            |                       |       | H            | 16.31       | 10.81        | -7.93      | 19.19        | 33.00 |
|                                            | 2687.5                | 41565 | V            | 15.22       | 10.92        | -8.03      | 18.11        | 33.00 |
|                                            |                       |       | H            | 16.37       | 10.92        | -8.03      | 19.26        | 33.00 |
| LTE BAND 41<br>BW: 5M<br>QPSK<br>RB: 1,24  | 2498.5                | 39675 | V            | 19.72       | 10.70        | -7.83      | 22.59        | 33.00 |
|                                            |                       |       | H            | 19.94       | 10.70        | -7.83      | 22.81        | 33.00 |
|                                            | 2593.0                | 40620 | V            | 19.95       | 10.81        | -7.94      | <b>22.83</b> | 33.00 |
|                                            |                       |       | H            | 16.81       | 10.81        | -7.93      | 19.69        | 33.00 |
|                                            | 2687.5                | 41565 | V            | 16.45       | 10.93        | -8.03      | 19.35        | 33.00 |
|                                            |                       |       | H            | 16.19       | 10.93        | -8.03      | 19.08        | 33.00 |
| LTE BAND 41<br>BW: 5M<br>16QAM<br>RB: 1,0  | 2498.5                | 39675 | V            | 18.94       | 10.70        | -7.83      | 21.81        | 33.00 |
|                                            |                       |       | H            | 18.89       | 10.70        | -7.83      | 21.76        | 33.00 |
|                                            | 2593.0                | 40620 | V            | 19.83       | 10.81        | -7.93      | 22.71        | 33.00 |
|                                            |                       |       | H            | 16.45       | 10.81        | -7.93      | 19.33        | 33.00 |
|                                            | 2687.5                | 41565 | V            | 15.56       | 10.92        | -8.03      | 18.46        | 33.00 |
|                                            |                       |       | H            | 16.27       | 10.92        | -8.03      | 19.16        | 33.00 |
| LTE BAND 41<br>BW: 5M<br>16QAM<br>RB: 1,24 | 2498.5                | 39675 | V            | 19.70       | 10.70        | -7.83      | 22.57        | 33.00 |
|                                            |                       |       | H            | 19.29       | 10.70        | -7.83      | 22.16        | 33.00 |
|                                            | 2593.0                | 40620 | V            | 19.90       | 10.81        | -7.93      | <b>22.78</b> | 33.00 |
|                                            |                       |       | H            | 16.76       | 10.82        | -7.94      | 19.64        | 33.00 |
|                                            | 2687.5                | 41565 | V            | 16.36       | 10.93        | -8.03      | 19.26        | 33.00 |
|                                            |                       |       | H            | 16.09       | 10.93        | -8.03      | 18.98        | 33.00 |
| LTE BAND 41<br>BW: 5M<br>64QAM<br>RB: 1,0  | 2498.5                | 39675 | V            | 16.09       | 10.93        | -8.03      | 18.98        | 33.00 |
|                                            |                       |       | H            | 18.89       | 10.70        | -7.82      | 21.76        | 33.00 |
|                                            | 2593.0                | 40620 | V            | 19.98       | 10.81        | -7.93      | <b>22.86</b> | 33.00 |
|                                            |                       |       | H            | 16.59       | 10.81        | -7.93      | 19.47        | 33.00 |
|                                            | 2687.5                | 41565 | V            | 15.64       | 10.92        | -8.02      | 18.53        | 33.00 |
|                                            |                       |       | H            | 16.35       | 10.92        | -8.03      | 19.25        | 33.00 |
| LTE BAND 41<br>BW: 5M<br>64QAM<br>RB: 1,24 | 2498.5                | 39675 | V            | 19.82       | 10.70        | -7.83      | 22.69        | 33.00 |
|                                            |                       |       | H            | 19.96       | 10.70        | -7.83      | 22.83        | 33.00 |
|                                            | 2593.0                | 40620 | V            | 19.94       | 10.81        | -7.93      | 22.82        | 33.00 |
|                                            |                       |       | H            | 16.86       | 10.81        | -7.94      | 19.74        | 33.00 |
|                                            | 2687.5                | 41565 | V            | 16.37       | 10.93        | -8.03      | 19.27        | 33.00 |
|                                            |                       |       | H            | 16.09       | 10.93        | -8.03      | 18.98        | 33.00 |

Remark : <sup>2</sup>A for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                            |                       |       | Measurement  |             |              |            |              |       |
|------------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                                | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 41<br>BW: 10M<br>QPSK<br>RB: 1,0   | 2501.0                | 39700 | V            | 18.80       | 10.70        | -7.83      | 21.67        | 33.00 |
|                                                |                       |       | H            | 18.72       | 10.70        | -7.83      | 21.59        | 33.00 |
|                                                | 2593.0                | 40620 | V            | 19.88       | 10.81        | -7.93      | 22.76        | 33.00 |
|                                                |                       |       | H            | 17.51       | 10.81        | -7.93      | 20.39        | 33.00 |
|                                                | 2685.0                | 41540 | V            | 14.77       | 10.92        | -8.02      | 17.66        | 33.00 |
|                                                |                       |       | H            | 15.44       | 10.93        | -8.03      | 18.34        | 33.00 |
| LTE<br>BAND 41<br>BW: 10M<br>QPSK<br>RB: 1,49  | 2501.0                | 39700 | V            | 20.35       | 10.71        | -7.84      | <b>23.22</b> | 33.00 |
|                                                |                       |       | H            | 19.72       | 10.71        | -7.84      | 22.59        | 33.00 |
|                                                | 2593.0                | 40620 | V            | 19.77       | 10.82        | -7.94      | 22.64        | 33.00 |
|                                                |                       |       | H            | 16.97       | 10.82        | -7.94      | 19.85        | 33.00 |
|                                                | 2685.0                | 41540 | V            | 14.85       | 10.92        | -8.02      | 17.74        | 33.00 |
|                                                |                       |       | H            | 15.61       | 10.93        | -8.03      | 18.50        | 33.00 |
| LTE<br>BAND 41<br>BW: 10M<br>16QAM<br>RB: 1,0  | 2501.0                | 39700 | V            | 18.83       | 10.70        | -7.83      | 21.70        | 33.00 |
|                                                |                       |       | H            | 18.33       | 10.70        | -7.83      | 21.20        | 33.00 |
|                                                | 2593.0                | 40620 | V            | 19.52       | 10.81        | -7.93      | 22.40        | 33.00 |
|                                                |                       |       | H            | 17.52       | 10.81        | -7.93      | 20.40        | 33.00 |
|                                                | 2685.0                | 41540 | V            | 14.94       | 10.92        | -8.02      | 17.83        | 33.00 |
|                                                |                       |       | H            | 15.52       | 10.93        | -8.03      | 18.42        | 33.00 |
| LTE<br>BAND 41<br>BW: 10M<br>16QAM<br>RB: 1,49 | 2501.0                | 39700 | V            | 20.32       | 10.71        | -7.84      | <b>23.19</b> | 33.00 |
|                                                |                       |       | H            | 19.84       | 10.71        | -7.84      | 22.71        | 33.00 |
|                                                | 2593.0                | 40620 | V            | 19.85       | 10.82        | -7.94      | 22.73        | 33.00 |
|                                                |                       |       | H            | 17.08       | 10.82        | -7.94      | 19.96        | 33.00 |
|                                                | 2685.0                | 41540 | V            | 15.40       | 10.92        | -8.02      | 18.30        | 33.00 |
|                                                |                       |       | H            | 14.51       | 10.93        | -8.03      | 17.41        | 33.00 |
| LTE<br>BAND 41<br>BW: 10M<br>64QAM<br>RB: 1,0  | 2501.0                | 39700 | V            | 18.60       | 10.70        | -7.83      | 21.47        | 33.00 |
|                                                |                       |       | H            | 18.11       | 10.70        | -7.83      | 20.98        | 33.00 |
|                                                | 2593.0                | 40620 | V            | 19.60       | 10.81        | -7.93      | 22.48        | 33.00 |
|                                                |                       |       | H            | 17.60       | 10.81        | -7.93      | 20.48        | 33.00 |
|                                                | 2685.0                | 41540 | V            | 15.52       | 10.92        | -8.02      | 18.41        | 33.00 |
|                                                |                       |       | H            | 14.79       | 10.93        | -8.03      | 17.68        | 33.00 |
| LTE<br>BAND 41<br>BW: 10M<br>64QAM<br>RB: 1,49 | 2501.0                | 39700 | V            | 20.35       | 10.71        | -7.84      | <b>23.22</b> | 33.00 |
|                                                |                       |       | H            | 19.90       | 10.71        | -7.84      | 22.77        | 33.00 |
|                                                | 2593.0                | 40620 | V            | 19.85       | 10.82        | -7.94      | 22.73        | 33.00 |
|                                                |                       |       | H            | 17.05       | 10.82        | -7.94      | 19.93        | 33.00 |
|                                                | 2685.0                | 41540 | V            | 15.68       | 10.92        | -8.02      | 18.58        | 33.00 |
|                                                |                       |       | H            | 15.00       | 10.93        | -8.03      | 17.90        | 33.00 |

Remark : <sup>2</sup>A for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                         |                       |       | Measurement  |             |              |            |              |       |
|---------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                              | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                             | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE BAND 41<br>BW: 15M<br>QPSK<br>RB: 1,0   | 2503.5                | 39725 | V            | 18.80       | 10.70        | -7.83      | 21.67        | 33.00 |
|                                             |                       |       | H            | 19.24       | 10.70        | -7.83      | 22.12        | 33.00 |
|                                             | 2593.0                | 40620 | V            | 19.21       | 10.80        | -7.93      | 22.09        | 33.00 |
|                                             |                       |       | H            | 17.74       | 10.80        | -7.93      | 20.62        | 33.00 |
|                                             | 2682.5                | 41515 | V            | 18.77       | 10.91        | -8.02      | 21.67        | 33.00 |
|                                             |                       |       | H            | 14.94       | 10.91        | -8.02      | 17.84        | 33.00 |
| LTE BAND 41<br>BW: 15M<br>QPSK<br>RB: 1,74  | 2503.5                | 39725 | V            | 19.89       | 10.71        | -7.84      | 22.76        | 33.00 |
|                                             |                       |       | H            | 20.28       | 10.71        | -7.84      | <b>23.15</b> | 33.00 |
|                                             | 2593.0                | 40620 | V            | 19.50       | 10.82        | -7.94      | 22.38        | 33.00 |
|                                             |                       |       | H            | 17.13       | 10.82        | -7.94      | 20.01        | 33.00 |
|                                             | 2682.5                | 41515 | V            | 19.62       | 10.93        | -8.03      | 22.52        | 33.00 |
|                                             |                       |       | H            | 15.70       | 10.93        | -8.03      | 18.60        | 33.00 |
| LTE BAND 41<br>BW: 15M<br>16QAM<br>RB: 1,0  | 2503.5                | 39725 | V            | 18.33       | 10.70        | -7.83      | 21.20        | 33.00 |
|                                             |                       |       | H            | 19.40       | 10.70        | -7.83      | 22.28        | 33.00 |
|                                             | 2593.0                | 40620 | V            | 19.32       | 10.80        | -7.92      | 22.20        | 33.00 |
|                                             |                       |       | H            | 17.88       | 10.80        | -7.93      | 20.76        | 33.00 |
|                                             | 2682.5                | 41515 | V            | 18.91       | 10.91        | -8.02      | 21.80        | 33.00 |
|                                             |                       |       | H            | 14.99       | 10.91        | -8.02      | 17.89        | 33.00 |
| LTE BAND 41<br>BW: 15M<br>16QAM<br>RB: 1,74 | 2503.5                | 39725 | V            | 19.94       | 10.71        | -7.84      | 22.81        | 33.00 |
|                                             |                       |       | H            | 20.25       | 10.71        | -7.84      | <b>23.12</b> | 33.00 |
|                                             | 2593.0                | 40620 | V            | 19.53       | 10.82        | -7.94      | 22.41        | 33.00 |
|                                             |                       |       | H            | 17.26       | 10.82        | -7.94      | 20.14        | 33.00 |
|                                             | 2682.5                | 41515 | V            | 19.44       | 10.93        | -8.03      | 22.34        | 33.00 |
|                                             |                       |       | H            | 15.60       | 10.93        | -8.03      | 18.50        | 33.00 |
| LTE BAND 41<br>BW: 15M<br>64QAM<br>RB: 1,0  | 2503.5                | 39725 | V            | 18.68       | 10.70        | -7.83      | 21.55        | 33.00 |
|                                             |                       |       | H            | 19.74       | 10.70        | -7.83      | 22.61        | 33.00 |
|                                             | 2593.0                | 40620 | V            | 19.42       | 10.80        | -7.93      | 22.30        | 33.00 |
|                                             |                       |       | H            | 18.03       | 10.80        | -7.93      | 20.90        | 33.00 |
|                                             | 2682.5                | 41515 | V            | 18.90       | 10.91        | -8.02      | 21.80        | 33.00 |
|                                             |                       |       | H            | 14.89       | 10.91        | -8.02      | 17.78        | 33.00 |
| LTE BAND 41<br>BW: 15M<br>64QAM<br>RB: 1,74 | 2503.5                | 39725 | V            | 19.96       | 10.71        | -7.84      | 22.83        | 33.00 |
|                                             |                       |       | H            | 20.17       | 10.71        | -7.84      | <b>23.05</b> | 33.00 |
|                                             | 2593.0                | 40620 | V            | 19.52       | 10.82        | -7.94      | 22.40        | 33.00 |
|                                             |                       |       | H            | 17.30       | 10.82        | -7.94      | 20.18        | 33.00 |
|                                             | 2682.5                | 41515 | V            | 19.36       | 10.93        | -8.03      | 22.26        | 33.00 |
|                                             |                       |       | H            | 15.50       | 10.93        | -8.03      | 18.40        | 33.00 |

Remark : <sup>2</sup>A for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                         |                       |       | Measurement  |             |              |            |              |       |
|---------------------------------------------|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                              | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                             | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE BAND 41<br>BW: 20M<br>QPSK<br>RB: 1,0   | 2506.0                | 39750 | V            | 17.91       | 10.70        | -7.83      | 20.78        | 33.00 |
|                                             |                       |       | H            | 17.90       | 10.70        | -7.83      | 20.77        | 33.00 |
|                                             | 2593.0                | 40620 | V            | 18.78       | 10.80        | -7.92      | 21.66        | 33.00 |
|                                             |                       |       | H            | 16.61       | 10.80        | -7.92      | 19.49        | 33.00 |
|                                             | 2680.0                | 41490 | V            | 19.66       | 10.91        | -8.01      | 22.56        | 33.00 |
|                                             |                       |       | H            | 16.15       | 10.91        | -8.01      | 19.04        | 33.00 |
| LTE BAND 41<br>BW: 20M<br>QPSK<br>RB: 1,99  | 2506.0                | 39750 | V            | 19.17       | 10.72        | -7.85      | 22.04        | 33.00 |
|                                             |                       |       | H            | 19.12       | 10.72        | -7.85      | 21.99        | 33.00 |
|                                             | 2593.0                | 40620 | V            | 19.46       | 10.82        | -7.94      | 22.34        | 33.00 |
|                                             |                       |       | H            | 16.27       | 10.82        | -7.94      | 19.15        | 33.00 |
|                                             | 2680.0                | 41490 | V            | 20.41       | 10.93        | -8.03      | <b>23.31</b> | 33.00 |
|                                             |                       |       | H            | 17.13       | 10.93        | -8.03      | 20.03        | 33.00 |
| LTE BAND 41<br>BW: 20M<br>16QAM<br>RB: 1,0  | 2506.0                | 39750 | V            | 18.13       | 10.70        | -7.83      | 21.00        | 33.00 |
|                                             |                       |       | H            | 17.05       | 10.70        | -7.83      | 19.92        | 33.00 |
|                                             | 2593.0                | 40620 | V            | 18.78       | 10.80        | -7.92      | 21.66        | 33.00 |
|                                             |                       |       | H            | 16.60       | 10.80        | -7.92      | 19.48        | 33.00 |
|                                             | 2680.0                | 41490 | V            | 19.90       | 10.91        | -8.01      | 22.79        | 33.00 |
|                                             |                       |       | H            | 16.06       | 10.91        | -8.01      | 18.95        | 33.00 |
| LTE BAND 41<br>BW: 20M<br>16QAM<br>RB: 1,99 | 2506.0                | 39750 | V            | 19.20       | 10.72        | -7.85      | 22.07        | 33.00 |
|                                             |                       |       | H            | 19.29       | 10.72        | -7.85      | 22.16        | 33.00 |
|                                             | 2593.0                | 40620 | V            | 20.07       | 10.82        | -7.94      | 22.95        | 33.00 |
|                                             |                       |       | H            | 16.27       | 10.82        | -7.94      | 19.15        | 33.00 |
|                                             | 2680.0                | 41490 | V            | 20.40       | 10.93        | -8.03      | <b>23.30</b> | 33.00 |
|                                             |                       |       | H            | 17.29       | 10.93        | -8.03      | 20.18        | 33.00 |
| LTE BAND 41<br>BW: 20M<br>64QAM<br>RB: 1,0  | 2506.0                | 39750 | V            | 18.46       | 10.70        | -7.83      | 21.33        | 33.00 |
|                                             |                       |       | H            | 17.84       | 10.70        | -7.83      | 20.71        | 33.00 |
|                                             | 2593.0                | 40620 | V            | 19.25       | 10.80        | -7.92      | 22.13        | 33.00 |
|                                             |                       |       | H            | 17.04       | 10.80        | -7.92      | 19.92        | 33.00 |
|                                             | 2680.0                | 41490 | V            | 20.00       | 10.91        | -8.01      | 22.90        | 33.00 |
|                                             |                       |       | H            | 16.17       | 10.91        | -8.01      | 19.06        | 33.00 |
| LTE BAND 41<br>BW: 20M<br>64QAM<br>RB: 1,99 | 2506.0                | 39750 | V            | 19.18       | 10.72        | -7.85      | 22.05        | 33.00 |
|                                             |                       |       | H            | 19.71       | 10.72        | -7.85      | 22.58        | 33.00 |
|                                             | 2593.0                | 40620 | V            | 20.15       | 10.82        | -7.94      | 23.03        | 33.00 |
|                                             |                       |       | H            | 16.26       | 10.82        | -7.94      | 19.14        | 33.00 |
|                                             | 2680.0                | 41490 | V            | 20.49       | 10.93        | -8.03      | <b>23.39</b> | 33.00 |
|                                             |                       |       | H            | 17.51       | 10.93        | -8.03      | 20.40        | 33.00 |

Remark : <sup>2</sup>A for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                            |                       |        | Measurement  |             |              |            |              |       |
|------------------------------------------------|-----------------------|--------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH     | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                                | MHz                   |        | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 66<br>BW: 1.4M<br>QPSK<br>RB: 1,0  | 1710.7                | 131979 | V            | 8.46        | 8.98         | -6.58      | 10.86        | 30.00 |
|                                                |                       |        | H            | 10.34       | 8.99         | -6.58      | 12.74        | 30.00 |
|                                                | 1745.0                | 132322 | V            | 6.72        | 9.13         | -6.65      | 9.20         | 30.00 |
|                                                |                       |        | H            | 9.12        | 9.13         | -6.65      | 11.60        | 30.00 |
|                                                | 1779.3                | 132665 | V            | 11.20       | 9.27         | -6.72      | 13.75        | 30.00 |
|                                                |                       |        | H            | 11.98       | 9.27         | -6.72      | <b>14.54</b> | 30.00 |
| LTE<br>BAND 66<br>BW: 1.4M<br>QPSK<br>RB: 1,5  | 1710.7                | 131979 | V            | 8.60        | 8.99         | -6.58      | 11.00        | 30.00 |
|                                                |                       |        | H            | 10.41       | 8.99         | -6.58      | 12.82        | 30.00 |
|                                                | 1745.0                | 132322 | V            | 6.68        | 9.13         | -6.65      | 9.16         | 30.00 |
|                                                |                       |        | H            | 9.40        | 9.13         | -6.65      | 11.88        | 30.00 |
|                                                | 1779.3                | 132665 | V            | 11.07       | 9.28         | -6.72      | 13.63        | 30.00 |
|                                                |                       |        | H            | 11.37       | 9.28         | -6.72      | 13.93        | 30.00 |
| LTE<br>BAND 66<br>BW: 1.4M<br>16QAM<br>RB: 1,0 | 1710.7                | 131979 | V            | 8.65        | 8.99         | -6.58      | 11.06        | 30.00 |
|                                                |                       |        | H            | 10.65       | 8.99         | -6.58      | 13.05        | 30.00 |
|                                                | 1745.0                | 132322 | V            | 6.83        | 9.13         | -6.65      | 9.31         | 30.00 |
|                                                |                       |        | H            | 9.30        | 9.13         | -6.65      | 11.78        | 30.00 |
|                                                | 1779.3                | 132665 | V            | 11.24       | 9.27         | -6.72      | 13.79        | 30.00 |
|                                                |                       |        | H            | 12.10       | 9.27         | -6.72      | <b>14.65</b> | 30.00 |
| LTE<br>BAND 66<br>BW: 1.4M<br>16QAM<br>RB: 1,5 | 1710.7                | 131979 | V            | 8.68        | 8.99         | -6.58      | 11.09        | 30.00 |
|                                                |                       |        | H            | 10.62       | 8.99         | -6.58      | 13.02        | 30.00 |
|                                                | 1745.0                | 132322 | V            | 6.39        | 9.13         | -6.65      | 8.87         | 30.00 |
|                                                |                       |        | H            | 9.66        | 9.13         | -6.65      | 12.14        | 30.00 |
|                                                | 1779.3                | 132665 | V            | 11.21       | 9.28         | -6.72      | 13.77        | 30.00 |
|                                                |                       |        | H            | 11.87       | 9.27         | -6.72      | 14.43        | 30.00 |
| LTE<br>BAND 66<br>BW: 1.4M<br>64QAM<br>RB: 1,0 | 1710.7                | 131979 | V            | 8.78        | 8.98         | -6.58      | 11.18        | 30.00 |
|                                                |                       |        | H            | 10.85       | 8.99         | -6.58      | 13.25        | 30.00 |
|                                                | 1745.0                | 132322 | V            | 6.92        | 9.13         | -6.65      | 9.39         | 30.00 |
|                                                |                       |        | H            | 9.60        | 9.13         | -6.65      | 12.07        | 30.00 |
|                                                | 1779.3                | 132665 | V            | 11.29       | 9.27         | -6.72      | 13.85        | 30.00 |
|                                                |                       |        | H            | 12.03       | 9.27         | -6.72      | <b>14.59</b> | 30.00 |
| LTE<br>BAND 66<br>BW: 1.4M<br>64QAM<br>RB: 1,5 | 1710.7                | 131979 | V            | 8.81        | 8.99         | -6.58      | 11.22        | 30.00 |
|                                                |                       |        | H            | 10.71       | 8.99         | -6.58      | 13.12        | 30.00 |
|                                                | 1745.0                | 132322 | V            | 6.83        | 9.13         | -6.65      | 9.31         | 30.00 |
|                                                |                       |        | H            | 9.76        | 9.13         | -6.65      | 12.24        | 30.00 |
|                                                | 1779.3                | 132665 | V            | 11.23       | 9.27         | -6.72      | 13.79        | 30.00 |
|                                                |                       |        | H            | 11.99       | 9.28         | -6.72      | 14.55        | 30.00 |

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| EUT                                           |                       |        | Measurement  |             |              |            |              |       |
|-----------------------------------------------|-----------------------|--------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH     | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                               | MHz                   |        | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 66<br>BW: 3M<br>QPSK<br>RB: 1,0   | 1711.5                | 131987 | V            | 9.48        | 8.98         | -6.58      | 11.88        | 30.00 |
|                                               |                       |        | H            | 10.30       | 8.99         | -6.58      | 12.70        | 30.00 |
|                                               | 1745.0                | 132322 | V            | 6.68        | 9.13         | -6.65      | 9.16         | 30.00 |
|                                               |                       |        | H            | 9.06        | 9.12         | -6.65      | 11.54        | 30.00 |
|                                               | 1778.5                | 132657 | V            | 10.87       | 9.27         | -6.72      | 13.42        | 30.00 |
|                                               |                       |        | H            | 11.33       | 9.26         | -6.71      | 13.88        | 30.00 |
| LTE<br>BAND 66<br>BW: 3M<br>QPSK<br>RB: 1,14  | 1711.5                | 131987 | V            | 8.58        | 8.99         | -6.59      | 10.99        | 30.00 |
|                                               |                       |        | H            | 10.31       | 9.00         | -6.59      | 12.72        | 30.00 |
|                                               | 1745.0                | 132322 | V            | 6.85        | 9.14         | -6.65      | 9.34         | 30.00 |
|                                               |                       |        | H            | 9.51        | 9.13         | -6.65      | 11.99        | 30.00 |
|                                               | 1778.5                | 132657 | V            | 10.91       | 9.28         | -6.72      | 13.47        | 30.00 |
|                                               |                       |        | H            | 11.50       | 9.28         | -6.72      | <b>14.05</b> | 30.00 |
| LTE<br>BAND 66<br>BW: 3M<br>16QAM<br>RB: 1,0  | 1711.5                | 131987 | V            | 8.54        | 8.98         | -6.58      | 10.94        | 30.00 |
|                                               |                       |        | H            | 10.54       | 8.99         | -6.58      | 12.95        | 30.00 |
|                                               | 1745.0                | 132322 | V            | 6.65        | 9.12         | -6.65      | 9.12         | 30.00 |
|                                               |                       |        | H            | 9.32        | 9.12         | -6.65      | 11.80        | 30.00 |
|                                               | 1778.5                | 132657 | V            | 11.00       | 9.27         | -6.72      | 13.56        | 30.00 |
|                                               |                       |        | H            | 11.28       | 9.27         | -6.72      | 13.83        | 30.00 |
| LTE<br>BAND 66<br>BW: 3M<br>16QAM<br>RB: 1,14 | 1711.5                | 131987 | V            | 8.66        | 9.00         | -6.59      | 11.07        | 30.00 |
|                                               |                       |        | H            | 10.50       | 8.99         | -6.58      | 12.91        | 30.00 |
|                                               | 1745.0                | 132322 | V            | 7.17        | 9.13         | -6.65      | 9.65         | 30.00 |
|                                               |                       |        | H            | 9.56        | 9.14         | -6.65      | 12.05        | 30.00 |
|                                               | 1778.5                | 132657 | V            | 11.06       | 9.28         | -6.72      | 13.61        | 30.00 |
|                                               |                       |        | H            | 11.72       | 9.27         | -6.72      | <b>14.28</b> | 30.00 |
| LTE<br>BAND 66<br>BW: 3M<br>64QAM<br>RB: 1,0  | 1711.5                | 131987 | V            | 8.86        | 8.98         | -6.58      | 11.26        | 30.00 |
|                                               |                       |        | H            | 10.60       | 8.98         | -6.58      | 13.01        | 30.00 |
|                                               | 1745.0                | 132322 | V            | 6.84        | 9.12         | -6.65      | 9.31         | 30.00 |
|                                               |                       |        | H            | 9.30        | 9.12         | -6.65      | 11.77        | 30.00 |
|                                               | 1778.5                | 132657 | V            | 10.93       | 9.27         | -6.72      | 13.48        | 30.00 |
|                                               |                       |        | H            | 11.23       | 9.26         | -6.71      | 13.78        | 30.00 |
| LTE<br>BAND 66<br>BW: 3M<br>64QAM<br>RB: 1,14 | 1711.5                | 131987 | V            | 8.89        | 9.00         | -6.59      | 11.30        | 30.00 |
|                                               |                       |        | H            | 10.61       | 9.00         | -6.59      | 13.02        | 30.00 |
|                                               | 1745.0                | 132322 | V            | 7.21        | 9.14         | -6.65      | 9.70         | 30.00 |
|                                               |                       |        | H            | 9.74        | 9.14         | -6.65      | 12.22        | 30.00 |
|                                               | 1778.5                | 132657 | V            | 11.38       | 9.28         | -6.72      | 13.93        | 30.00 |
|                                               |                       |        | H            | 11.67       | 9.27         | -6.72      | <b>14.22</b> | 30.00 |

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| EUT                                           |                       |        | Measurement  |             |              |            |              |       |
|-----------------------------------------------|-----------------------|--------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH     | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                               | MHz                   |        | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 66<br>BW: 5M<br>QPSK<br>RB: 1,0   | 1712.5                | 131997 | V            | 8.56        | 8.98         | -6.58      | 10.97        | 30.00 |
|                                               |                       |        | H            | 10.67       | 8.98         | -6.58      | 13.07        | 30.00 |
|                                               | 1745.0                | 132322 | V            | 6.63        | 9.12         | -6.64      | 9.10         | 30.00 |
|                                               |                       |        | H            | 9.12        | 9.12         | -6.64      | 11.59        | 30.00 |
|                                               | 1777.5                | 132647 | V            | 10.07       | 9.26         | -6.71      | 12.61        | 30.00 |
|                                               |                       |        | H            | 10.24       | 9.26         | -6.71      | 12.79        | 30.00 |
| LTE<br>BAND 66<br>BW: 5M<br>QPSK<br>RB: 1,24  | 1712.5                | 131997 | V            | 8.93        | 9.00         | -6.59      | 11.34        | 30.00 |
|                                               |                       |        | H            | 10.64       | 9.00         | -6.59      | 13.05        | 30.00 |
|                                               | 1745.0                | 132322 | V            | 7.19        | 9.14         | -6.66      | 9.68         | 30.00 |
|                                               |                       |        | H            | 9.75        | 9.14         | -6.66      | 12.24        | 30.00 |
|                                               | 1777.5                | 132647 | V            | 11.22       | 9.28         | -6.72      | 13.78        | 30.00 |
|                                               |                       |        | H            | 11.58       | 9.28         | -6.72      | <b>14.14</b> | 30.00 |
| LTE<br>BAND 66<br>BW: 5M<br>16QAM<br>RB: 1,0  | 1712.5                | 131997 | V            | 9.26        | 8.99         | -6.58      | 11.66        | 30.00 |
|                                               |                       |        | H            | 10.48       | 8.98         | -6.58      | 12.88        | 30.00 |
|                                               | 1745.0                | 132322 | V            | 6.76        | 9.12         | -6.65      | 9.24         | 30.00 |
|                                               |                       |        | H            | 9.33        | 9.12         | -6.65      | 11.81        | 30.00 |
|                                               | 1777.5                | 132647 | V            | 10.12       | 9.26         | -6.71      | 12.67        | 30.00 |
|                                               |                       |        | H            | 10.13       | 9.25         | -6.71      | 12.67        | 30.00 |
| LTE<br>BAND 66<br>BW: 5M<br>16QAM<br>RB: 1,24 | 1712.5                | 131997 | V            | 8.95        | 9.00         | -6.59      | 11.36        | 30.00 |
|                                               |                       |        | H            | 10.80       | 9.00         | -6.59      | 13.21        | 30.00 |
|                                               | 1745.0                | 132322 | V            | 7.47        | 9.14         | -6.65      | 9.95         | 30.00 |
|                                               |                       |        | H            | 9.81        | 9.14         | -6.65      | 12.30        | 30.00 |
|                                               | 1777.5                | 132647 | V            | 11.20       | 9.27         | -6.72      | 13.76        | 30.00 |
|                                               |                       |        | H            | 11.89       | 9.28         | -6.72      | <b>14.44</b> | 30.00 |
| LTE<br>BAND 66<br>BW: 5M<br>64QAM<br>RB: 1,0  | 1712.5                | 131997 | V            | 8.82        | 8.98         | -6.58      | 11.22        | 30.00 |
|                                               |                       |        | H            | 10.72       | 8.98         | -6.58      | 13.12        | 30.00 |
|                                               | 1745.0                | 132322 | V            | 6.97        | 9.12         | -6.65      | 9.44         | 30.00 |
|                                               |                       |        | H            | 9.41        | 9.12         | -6.65      | 11.88        | 30.00 |
|                                               | 1777.5                | 132647 | V            | 10.04       | 9.26         | -6.71      | 12.58        | 30.00 |
|                                               |                       |        | H            | 10.25       | 9.26         | -6.71      | 12.80        | 30.00 |
| LTE<br>BAND 66<br>BW: 5M<br>64QAM<br>RB: 1,24 | 1712.5                | 131997 | V            | 9.17        | 9.00         | -6.59      | 11.58        | 30.00 |
|                                               |                       |        | H            | 10.80       | 9.00         | -6.59      | 13.21        | 30.00 |
|                                               | 1745.0                | 132322 | V            | 7.39        | 9.14         | -6.65      | 9.87         | 30.00 |
|                                               |                       |        | H            | 10.10       | 9.14         | -6.65      | 12.58        | 30.00 |
|                                               | 1777.5                | 132647 | V            | 11.33       | 9.27         | -6.72      | 13.89        | 30.00 |
|                                               |                       |        | H            | 11.87       | 9.27         | -6.72      | <b>14.43</b> | 30.00 |

**Remark :** 'A for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                            |                       |        | Measurement  |             |              |            |              |       |
|------------------------------------------------|-----------------------|--------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH     | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                                | MHz                   |        | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 66<br>BW: 10M<br>QPSK<br>RB: 1,0   | 1715.0                | 132022 | V            | 8.43        | 8.99         | -6.58      | 10.83        | 30.00 |
|                                                |                       |        | H            | 10.28       | 8.99         | -6.58      | 12.68        | 30.00 |
|                                                | 1745.0                | 132322 | V            | 6.88        | 9.11         | -6.64      | 9.35         | 30.00 |
|                                                |                       |        | H            | 8.48        | 9.11         | -6.64      | 10.95        | 30.00 |
|                                                | 1775.0                | 132622 | V            | 9.39        | 9.23         | -6.70      | 11.93        | 30.00 |
|                                                |                       |        | H            | 7.99        | 9.24         | -6.70      | 10.53        | 30.00 |
| LTE<br>BAND 66<br>BW: 10M<br>QPSK<br>RB: 1,49  | 1715.0                | 132022 | V            | 7.87        | 9.02         | -6.60      | 10.29        | 30.00 |
|                                                |                       |        | H            | 10.85       | 9.02         | -6.60      | 13.28        | 30.00 |
|                                                | 1745.0                | 132322 | V            | 8.14        | 9.15         | -6.66      | 10.63        | 30.00 |
|                                                |                       |        | H            | 10.22       | 9.15         | -6.66      | 12.71        | 30.00 |
|                                                | 1775.0                | 132622 | V            | 11.27       | 9.28         | -6.72      | 13.82        | 30.00 |
|                                                |                       |        | H            | 11.96       | 9.28         | -6.72      | <b>14.52</b> | 30.00 |
| LTE<br>BAND 66<br>BW: 10M<br>16QAM<br>RB: 1,0  | 1715.0                | 132022 | V            | 7.91        | 9.02         | -6.60      | 10.33        | 30.00 |
|                                                |                       |        | H            | 10.99       | 9.02         | -6.60      | 13.41        | 30.00 |
|                                                | 1745.0                | 132322 | V            | 6.92        | 9.11         | -6.64      | 9.39         | 30.00 |
|                                                |                       |        | H            | 9.30        | 9.11         | -6.64      | 11.77        | 30.00 |
|                                                | 1775.0                | 132622 | V            | 9.57        | 9.24         | -6.70      | 12.10        | 30.00 |
|                                                |                       |        | H            | 8.08        | 9.24         | -6.70      | 10.62        | 30.00 |
| LTE<br>BAND 66<br>BW: 10M<br>16QAM<br>RB: 1,49 | 1715.0                | 132022 | V            | 8.45        | 9.02         | -6.60      | 10.87        | 30.00 |
|                                                |                       |        | H            | 10.70       | 9.02         | -6.60      | 13.12        | 30.00 |
|                                                | 1745.0                | 132322 | V            | 8.37        | 9.15         | -6.66      | 10.85        | 30.00 |
|                                                |                       |        | H            | 10.40       | 9.15         | -6.66      | 12.88        | 30.00 |
|                                                | 1775.0                | 132622 | V            | 11.92       | 9.28         | -6.72      | 14.47        | 30.00 |
|                                                |                       |        | H            | 11.95       | 9.27         | -6.72      | <b>14.51</b> | 30.00 |
| LTE<br>BAND 66<br>BW: 10M<br>64QAM<br>RB: 1,0  | 1715.0                | 132022 | V            | 9.01        | 8.98         | -6.58      | 11.41        | 30.00 |
|                                                |                       |        | H            | 10.83       | 8.99         | -6.58      | 13.23        | 30.00 |
|                                                | 1745.0                | 132322 | V            | 7.13        | 9.11         | -6.64      | 9.60         | 30.00 |
|                                                |                       |        | H            | 9.27        | 9.11         | -6.64      | 11.74        | 30.00 |
|                                                | 1775.0                | 132622 | V            | 9.68        | 9.24         | -6.70      | 12.22        | 30.00 |
|                                                |                       |        | H            | 8.33        | 9.24         | -6.70      | 10.87        | 30.00 |
| LTE<br>BAND 66<br>BW: 10M<br>64QAM<br>RB: 1,49 | 1715.0                | 132022 | V            | 8.00        | 9.02         | -6.60      | 10.43        | 30.00 |
|                                                |                       |        | H            | 11.16       | 9.02         | -6.60      | 13.58        | 30.00 |
|                                                | 1745.0                | 132322 | V            | 8.39        | 9.15         | -6.66      | 10.88        | 30.00 |
|                                                |                       |        | H            | 10.60       | 9.15         | -6.66      | 13.08        | 30.00 |
|                                                | 1775.0                | 132622 | V            | 11.51       | 9.27         | -6.72      | 14.06        | 30.00 |
|                                                |                       |        | H            | 11.92       | 9.28         | -6.72      | <b>14.48</b> | 30.00 |

Remark : 'A for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                            |                       |        | Measurement  |             |              |            |              |       |
|------------------------------------------------|-----------------------|--------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH     | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                                                | MHz                   |        | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| LTE<br>BAND 66<br>BW: 15M<br>QPSK<br>RB: 1,0   | 1717.5                | 132047 | V            | 8.48        | 8.99         | -6.58      | 10.88        | 30.00 |
|                                                |                       |        | H            | 10.51       | 8.98         | -6.58      | 12.92        | 30.00 |
|                                                | 1745.0                | 132322 | V            | 6.81        | 9.11         | -6.64      | 9.28         | 30.00 |
|                                                |                       |        | H            | 8.75        | 9.10         | -6.64      | 11.21        | 30.00 |
|                                                | 1772.5                | 132597 | V            | 10.42       | 9.22         | -6.69      | 12.95        | 30.00 |
|                                                |                       |        | H            | 8.35        | 9.22         | -6.69      | 10.87        | 30.00 |
| LTE<br>BAND 66<br>BW: 15M<br>QPSK<br>RB: 1,74  | 1717.5                | 132047 | V            | 6.42        | 9.04         | -6.61      | 8.85         | 30.00 |
|                                                |                       |        | H            | 11.37       | 9.04         | -6.61      | 13.80        | 30.00 |
|                                                | 1745.0                | 132322 | V            | 9.56        | 9.16         | -6.66      | 12.05        | 30.00 |
|                                                |                       |        | H            | 10.72       | 9.16         | -6.66      | 13.21        | 30.00 |
|                                                | 1772.5                | 132597 | V            | 12.00       | 9.27         | -6.72      | 14.55        | 30.00 |
|                                                |                       |        | H            | 12.01       | 9.27         | -6.72      | <b>14.57</b> | 30.00 |
| LTE<br>BAND 66<br>BW: 15M<br>16QAM<br>RB: 1,0  | 1717.5                | 132047 | V            | 8.64        | 8.99         | -6.58      | 11.04        | 30.00 |
|                                                |                       |        | H            | 10.71       | 8.99         | -6.58      | 13.11        | 30.00 |
|                                                | 1745.0                | 132322 | V            | 7.21        | 9.10         | -6.64      | 9.68         | 30.00 |
|                                                |                       |        | H            | 9.01        | 9.10         | -6.64      | 11.48        | 30.00 |
|                                                | 1772.5                | 132597 | V            | 10.42       | 9.22         | -6.69      | 12.94        | 30.00 |
|                                                |                       |        | H            | 8.97        | 9.22         | -6.69      | 11.49        | 30.00 |
| LTE<br>BAND 66<br>BW: 15M<br>16QAM<br>RB: 1,74 | 1717.5                | 132047 | V            | 6.42        | 9.04         | -6.61      | 8.86         | 30.00 |
|                                                |                       |        | H            | 11.32       | 9.04         | -6.61      | 13.75        | 30.00 |
|                                                | 1745.0                | 132322 | V            | 9.29        | 9.16         | -6.66      | 11.79        | 30.00 |
|                                                |                       |        | H            | 10.91       | 9.16         | -6.67      | 13.41        | 30.00 |
|                                                | 1772.5                | 132597 | V            | 11.08       | 9.27         | -6.72      | 13.64        | 30.00 |
|                                                |                       |        | H            | 11.93       | 9.27         | -6.72      | <b>14.49</b> | 30.00 |
| LTE<br>BAND 66<br>BW: 15M<br>64QAM<br>RB: 1,0  | 1717.5                | 132047 | V            | 8.88        | 8.99         | -6.58      | 11.29        | 30.00 |
|                                                |                       |        | H            | 10.77       | 8.98         | -6.58      | 13.17        | 30.00 |
|                                                | 1745.0                | 132322 | V            | 7.35        | 9.10         | -6.64      | 9.81         | 30.00 |
|                                                |                       |        | H            | 9.55        | 9.10         | -6.64      | 12.02        | 30.00 |
|                                                | 1772.5                | 132597 | V            | 10.80       | 9.22         | -6.69      | 13.32        | 30.00 |
|                                                |                       |        | H            | 9.07        | 9.22         | -6.69      | 11.60        | 30.00 |
| LTE<br>BAND 66<br>BW: 15M<br>64QAM<br>RB: 1,74 | 1717.5                | 132047 | V            | 6.68        | 9.04         | -6.61      | 9.12         | 30.00 |
|                                                |                       |        | H            | 12.12       | 9.04         | -6.61      | <b>14.55</b> | 30.00 |
|                                                | 1745.0                | 132322 | V            | 9.36        | 9.16         | -6.66      | 11.86        | 30.00 |
|                                                |                       |        | H            | 10.78       | 9.16         | -6.66      | 13.27        | 30.00 |
|                                                | 1772.5                | 132597 | V            | 11.32       | 9.27         | -6.72      | 13.87        | 30.00 |
|                                                |                       |        | H            | 11.69       | 9.27         | -6.72      | 14.25        | 30.00 |

**Remark :** 'A for frequency RBW= 8MHz , VBW= 8MHz

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| EUT                                             |                       |        | Measurement  |             |              |            |       |       |
|-------------------------------------------------|-----------------------|--------|--------------|-------------|--------------|------------|-------|-------|
| Operation Band                                  | Fundamental Frequency | CH     | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP  | Limit |
|                                                 | MHz                   |        | V/H          | dBm         | dBi          | dB         | dBm   | dBm   |
| LTE<br>BAND 66<br>BW: 20M<br>QPSK<br>RB: 1,0    | 1720.0                | 132072 | V            | 8.38        | 8.99         | -6.58      | 10.78 | 30.00 |
|                                                 |                       |        | H            | 9.98        | 8.98         | -6.58      | 12.38 | 30.00 |
|                                                 | 1745.0                | 132322 | V            | 7.00        | 9.10         | -6.63      | 9.47  | 30.00 |
|                                                 |                       |        | H            | 9.19        | 9.09         | -6.63      | 11.65 | 30.00 |
|                                                 | 1770.0                | 132572 | V            | 11.39       | 9.20         | -6.68      | 13.90 | 30.00 |
|                                                 |                       |        | H            | 10.75       | 9.20         | -6.68      | 13.27 | 30.00 |
| LTE<br>BAND 66<br>BW: 20M<br>QPSK<br>RB: 1,99   | 1720.0                | 132072 | V            | 7.22        | 9.06         | -6.62      | 9.66  | 30.00 |
|                                                 |                       |        | H            | 12.17       | 9.06         | -6.62      | 14.62 | 30.00 |
|                                                 | 1745.0                | 132322 | V            | 8.99        | 9.17         | -6.67      | 11.49 | 30.00 |
|                                                 |                       |        | H            | 9.95        | 9.17         | -6.67      | 12.45 | 30.00 |
|                                                 | 1770.0                | 132572 | V            | 11.26       | 9.27         | -6.72      | 13.81 | 30.00 |
|                                                 |                       |        | H            | 11.92       | 9.27         | -6.72      | 14.48 | 30.00 |
| LTE<br>BAND 66<br>BW: 20M<br>16QAM<br>RB: 1,0   | 1720.0                | 132072 | V            | 8.55        | 8.99         | -6.58      | 10.96 | 30.00 |
|                                                 |                       |        | H            | 10.49       | 8.98         | -6.58      | 12.89 | 30.00 |
|                                                 | 1745.0                | 132322 | V            | 7.34        | 9.09         | -6.63      | 9.80  | 30.00 |
|                                                 |                       |        | H            | 9.68        | 9.09         | -6.63      | 12.14 | 30.00 |
|                                                 | 1770.0                | 132572 | V            | 11.44       | 9.20         | -6.68      | 13.95 | 30.00 |
|                                                 |                       |        | H            | 10.96       | 9.20         | -6.68      | 13.47 | 30.00 |
| LTE<br>BAND 66<br>BW: 20M<br>16QAM<br>RB: 1,99  | 1720.0                | 132072 | V            | 7.93        | 9.06         | -6.62      | 10.38 | 30.00 |
|                                                 |                       |        | H            | 12.34       | 9.06         | -6.62      | 14.78 | 30.00 |
|                                                 | 1745.0                | 132322 | V            | 9.05        | 9.17         | -6.67      | 11.55 | 30.00 |
|                                                 |                       |        | H            | 10.06       | 9.17         | -6.67      | 12.56 | 30.00 |
|                                                 | 1770.0                | 132572 | V            | 11.42       | 9.27         | -6.72      | 13.98 | 30.00 |
|                                                 |                       |        | H            | 12.26       | 9.27         | -6.72      | 14.82 | 30.00 |
| LTE<br>BAND 66<br>BW: 20M<br>64QAM<br>RB: 1,0   | 1720.0                | 132072 | V            | 9.28        | 8.98         | -6.58      | 11.68 | 30.00 |
|                                                 |                       |        | H            | 10.81       | 8.99         | -6.58      | 13.21 | 30.00 |
|                                                 | 1745.0                | 132322 | V            | 7.57        | 9.09         | -6.63      | 10.03 | 30.00 |
|                                                 |                       |        | H            | 10.24       | 9.09         | -6.63      | 12.70 | 30.00 |
|                                                 | 1770.0                | 132572 | V            | 11.42       | 9.20         | -6.68      | 13.93 | 30.00 |
|                                                 |                       |        | H            | 10.92       | 9.20         | -6.68      | 13.44 | 30.00 |
| LTE<br>BAND 66<br>BW: 20M<br>64QAM<br>RB: 1,99  | 1720.0                | 132072 | V            | 7.61        | 9.07         | -6.62      | 10.06 | 30.00 |
|                                                 |                       |        | H            | 12.51       | 9.07         | -6.62      | 14.95 | 30.00 |
|                                                 | 1745.0                | 132322 | V            | 9.01        | 9.17         | -6.67      | 11.51 | 30.00 |
|                                                 |                       |        | H            | 10.05       | 9.17         | -6.67      | 12.55 | 30.00 |
|                                                 | 1770.0                | 132572 | V            | 11.04       | 9.27         | -6.72      | 13.60 | 30.00 |
|                                                 |                       |        | H            | 12.04       | 9.27         | -6.72      | 14.59 | 30.00 |
| Remark : 'A for frequency RBW= 8MHz , VBW= 8MHz |                       |        |              |             |              |            |       |       |

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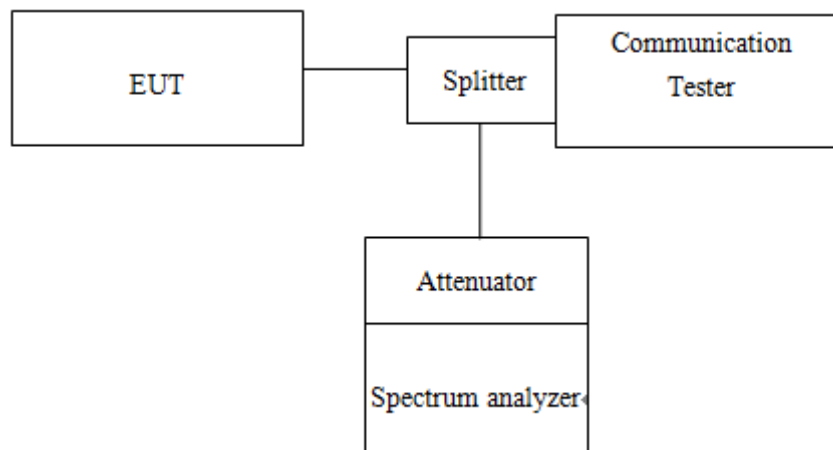
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## 8. OCCUPIED BANDWIDTH MEASUREMENT

### 8.1. Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

### 8.2. Test Set-up



### 8.3. Measurement Procedure

#### **99% & 26dB Bandwidth with detector peak**

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 \* Signal BW, set % Power = 99%.

#### **99% Bandwidth with detector sample**

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW= 3 RBW, with span > 2 \* Signal BW, set % Power = 99%.

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#### 8.4. Measurement Equipment Used

| Conducted Emission (measured at antenna port) Test Site |           |                    |               |            |            |
|---------------------------------------------------------|-----------|--------------------|---------------|------------|------------|
| EQUIPMENT TYPE                                          | MFR       | MODEL NUMBER       | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Spectrum Analyzer                                       | KEYSIGHT  | N9010A             | MY51440113    | 06/20/2017 | 06/19/2018 |
| Communication Tester                                    | Anritsu   | MT8820C            | 6201107337    | 05/25/2017 | 05/24/2018 |
| Coaxial Cable 30cm                                      | WOKEN     | 00100A1F1A<br>195C | RF01          | 12/12/2016 | 12/11/2017 |
| Temperature Chamber                                     | TERCHY    | MHK-120LK          | 1020582       | 06/13/2017 | 06/12/2018 |
| DC Block                                                | PASTERNAK | PE8210             | RF29          | 12/12/2016 | 12/11/2017 |
| Splitter                                                | RF-LAMBDA | RFLT2W1G1<br>8G    | RF35          | 12/12/2016 | 12/11/2017 |
| Attenuator                                              | WOKEN     | 218FS-10           | RF23          | 12/12/2016 | 12/11/2017 |
| DC Power Supply                                         | Agilent   | E3640A             | MY53140006    | 05/02/2017 | 05/01/2018 |

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## 8.5. Measurement Result

| LTE BAND 2 Channel bandwidth: 1.4MHz |       |               |               |               |                |               |               | LTE BAND 2 Channel bandwidth: 3MHz |       |               |               |               |                |               |               |
|--------------------------------------|-------|---------------|---------------|---------------|----------------|---------------|---------------|------------------------------------|-------|---------------|---------------|---------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               | Freq.<br>(MHz)                     | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               |
|                                      |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |                                    |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |
| 1850.7                               | 18607 | <b>1.0925</b> | 1.0893        | 1.0936        | 1.2395         | 1.2273        | <b>1.2462</b> | 1851.5                             | 18615 | 2.6962        | <b>2.6999</b> | 2.7087        | <b>2.9948</b>  | 3.0086        | 3.0119        |
| 1880.0                               | 18900 | 1.0923        | 1.0907        | <b>1.0938</b> | <b>1.2396</b>  | <b>1.2427</b> | 1.2453        | 1880.0                             | 18900 | 2.6955        | 2.6962        | <b>2.7102</b> | 2.9831         | <b>3.0107</b> | 3.0141        |
| 1909.3                               | 19193 | 1.0923        | <b>1.0942</b> | 1.0924        | 1.2346         | 1.2336        | 1.2452        | 1908.5                             | 19185 | <b>2.6984</b> | 2.6961        | 2.7076        | 2.9839         | 3.0048        | <b>3.0201</b> |

| LTE BAND 2 Channel bandwidth: 5MHz |       |               |               |               |                |               |               | LTE BAND 2 Channel bandwidth: 10MHz |       |               |               |               |                |               |               |
|------------------------------------|-------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------------------------|-------|---------------|---------------|---------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               | Freq.<br>(MHz)                      | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               |
|                                    |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |                                     |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |
| 1852.5                             | 18625 | 4.4910        | 4.4977        | 4.4877        | 4.9640         | 4.9276        | 4.9648        | 1855.0                              | 18650 | 8.9909        | 8.9476        | 8.9667        | 9.8187         | 9.7016        | 9.8490        |
| 1880.0                             | 18900 | <b>4.4962</b> | 4.4898        | <b>4.5015</b> | 4.9401         | 4.9139        | <b>4.9847</b> | 1880.0                              | 18900 | 8.9898        | 8.9505        | <b>8.9902</b> | 9.7829         | 9.7088        | <b>9.8777</b> |
| 1907.5                             | 19175 | 4.4918        | <b>4.5019</b> | 4.4908        | <b>4.9963</b>  | <b>4.9671</b> | 4.9462        | 1905.0                              | 19150 | <b>8.9954</b> | <b>8.9590</b> | 8.9641        | <b>9.8358</b>  | <b>9.7217</b> | 9.8709        |

| LTE BAND 2 Channel bandwidth: 15MHz |       |              |         |         |                |         |         | LTE BAND 2 Channel bandwidth: 20MHz |       |              |         |         |                |         |         |
|-------------------------------------|-------|--------------|---------|---------|----------------|---------|---------|-------------------------------------|-------|--------------|---------|---------|----------------|---------|---------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |         |         | 26 dB BW (MHz) |         |         | Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |         |         | 26 dB BW (MHz) |         |         |
|                                     |       | QPSK         | 16QAM   | 64QAM   | QPSK           | 16QAM   | 64QAM   |                                     |       | QPSK         | 16QAM   | 64QAM   | QPSK           | 16QAM   | 64QAM   |
| 1857.5                              | 18675 | 13.4880      | 13.4560 | 13.4680 | 14.7280        | 14.7310 | 14.6310 | 1860.0                              | 18700 | 17.9290      | 17.9650 | 17.9230 | 19.4640        | 19.3320 | 19.4380 |
| 1880.0                              | 18900 | 13.4700      | 13.4540 | 13.4610 | 14.6960        | 14.6820 | 14.6120 | 1880.0                              | 18900 | 17.9220      | 17.9580 | 17.9480 | 19.4820        | 19.4350 | 19.3590 |
| 1902.5                              | 19125 | 13.4460      | 13.4480 | 13.4650 | 14.5590        | 14.6770 | 14.6130 | 1900.0                              | 19100 | 17.9480      | 17.9290 | 17.9490 | 19.4600        | 19.4810 | 19.4930 |

| LTE BAND 4 Channel bandwidth: 1.4MHz |       |              |        |        |                |        |        | LTE BAND 4 Channel bandwidth: 3MHz |       |              |        |        |                |        |        |
|--------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        | 26 dB BW (MHz) |        |        | Freq.<br>(MHz)                     | CH    | 99% BW (MHz) |        |        | 26 dB BW (MHz) |        |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | QPSK           | 16QAM  | 64QAM  |                                    |       | QPSK         | 16QAM  | 64QAM  | QPSK           | 16QAM  | 64QAM  |
| 1710.7                               | 19957 | 1.1041       | 1.1010 | 1.1244 | 1.5637         | 1.5049 | 1.2317 | 1711.5                             | 19965 | 2.7201       | 2.7143 | 2.7482 | 3.2762         | 3.9152 | 5.4994 |
| 1732.5                               | 20175 | 1.1090       | 1.1073 | 1.1090 | 1.9135         | 1.6804 | 0.0000 | 1732.5                             | 20175 | 2.7338       | 2.7243 | 2.7343 | 3.9565         | 4.1902 | 3.9954 |
| 1754.3                               | 20393 | 1.0949       | 1.0961 | 1.0959 | 1.2318         | 1.2340 | 0.0000 | 1753.5                             | 20385 | 2.6935       | 2.7007 | 2.7103 | 3.0235         | 3.0157 | 3.0191 |

| LTE BAND 4 Channel bandwidth: 5MHz |       |              |        |        |                |        |        | LTE BAND 4 Channel bandwidth: 10MHz |       |              |        |        |                |         |         |
|------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|-------------------------------------|-------|--------------|--------|--------|----------------|---------|---------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz) |        |        | 26 dB BW (MHz) |        |        | Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        | 26 dB BW (MHz) |         |         |
|                                    |       | QPSK         | 16QAM  | 64QAM  | QPSK           | 16QAM  | 64QAM  |                                     |       | QPSK         | 16QAM  | 64QAM  | QPSK           | 16QAM   | 64QAM   |
| 1712.5                             | 19957 | 4.5374       | 4.5349 | 4.5522 | 8.2008         | 6.9177 | 8.9346 | 1715.0                              | 20000 | 9.0353       | 9.0078 | 9.0374 | 10.9349        | 10.0207 | 11.4127 |
| 1732.5                             | 20175 | 4.5384       | 4.5407 | 4.5403 | 9.4647         | 8.2491 | 7.3903 | 1732.5                              | 20175 | 9.0196       | 8.9930 | 9.0054 | 10.8561        | 10.5875 | 9.9036  |
| 1752.5                             | 20375 | 4.4913       | 4.5017 | 4.4987 | 4.9748         | 4.9492 | 4.9589 | 1750.0                              | 20350 | 9.0281       | 8.9855 | 8.9975 | 9.8174         | 9.7544  | 9.8137  |

| LTE BAND 4 Channel bandwidth: 15MHz |       |              |         |         |                |         |         | LTE BAND 4 Channel bandwidth: 20MHz |       |              |         |         |                |         |         |
|-------------------------------------|-------|--------------|---------|---------|----------------|---------|---------|-------------------------------------|-------|--------------|---------|---------|----------------|---------|---------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |         |         | 26 dB BW (MHz) |         |         | Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |         |         | 26 dB BW (MHz) |         |         |
|                                     |       | QPSK         | 16QAM   | 64QAM   | QPSK           | 16QAM   | 64QAM   |                                     |       | QPSK         | 16QAM   | 64QAM   | QPSK           | 16QAM   | 64QAM   |
| 1717.5                              | 20025 | 13.4710      | 13.4700 | 13.4760 | 14.6220        | 14.6460 | 14.7080 | 1720.0                              | 20050 | 17.8220      | 17.8640 | 17.8440 | 19.4120        | 19.2690 | 19.3190 |
| 1732.5                              | 20175 | 13.5220      | 13.5650 | 13.5060 | 15.1840        | 18.2210 | 15.5070 | 1732.5                              | 20175 | 17.9240      | 17.9630 | 17.9590 | 19.5070        | 19.3320 | 19.4960 |
| 1747.5                              | 20325 | 13.5480      | 13.5650 | 13.5730 | 15.4170        | 16.6160 | 16.6220 | 1745.0                              | 20300 | 18.0930      | 18.1130 | 18.2080 | 28.3350        | 32.2730 | 33.8100 |

| LTE BAND 5 Channel bandwidth: 1.4MHz |       |              |        |        |                |        |        | LTE BAND 5 Channel bandwidth: 3MHz |       |              |        |        |                |        |        |
|--------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        | 26 dB BW (MHz) |        |        | Freq.<br>(MHz)                     | CH    | 99% BW (MHz) |        |        | 26 dB BW (MHz) |        |        |
|                                      |       | QPSK         | 16QAM  | 64QAM  | QPSK           | 16QAM  | 64QAM  |                                    |       | QPSK         | 16QAM  | 64QAM  | QPSK           | 16QAM  | 64QAM  |
| 824.7                                | 20407 | 1.0935       | 1.0894 | 1.0949 | 1.2325         | 1.2289 | 1.2426 | 825.5                              | 20415 | 2.6935       | 2.6970 | 2.7065 | 2.9863         | 3.0116 | 3.0084 |
| 836.5                                | 20525 | 1.0906       | 1.0932 | 1.0944 | 1.2374         | 1.2244 | 1.2438 | 836.5                              | 20525 | 2.6977       | 2.6965 | 2.7106 | 2.9874         | 3.0078 | 3.0230 |
| 848.3                                | 20643 | 1.0940       | 1.0947 | 1.0935 | 1.2317         | 1.2372 | 1.2434 | 847.5                              | 20635 | 2.6945       | 2.7002 | 2.7095 | 2.9960         | 3.0000 | 3.0141 |

| LTE BAND 5 Channel bandwidth: 5MHz |       |              |        |        |                |        |        | LTE BAND 5 Channel bandwidth: 10MHz |       |              |        |        |                |        |        |
|------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|-------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|
| Freq.<br>(MHz)                     | CH    | 99% BW (MHz) |        |        | 26 dB BW (MHz) |        |        | Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        | 26 dB BW (MHz) |        |        |
|                                    |       | QPSK         | 16QAM  | 64QAM  | QPSK           | 16QAM  | 64QAM  |                                     |       | QPSK         | 16QAM  | 64QAM  | QPSK           | 16QAM  | 64QAM  |
| 826.5                              | 20425 | 4.4982       | 4.4935 | 4.5000 | 4.9708         | 4.9736 | 4.9660 | 829.0                               | 20450 | 8.9840       | 8.9612 | 8.9912 | 9.8344         | 9.7518 | 9.8647 |
| 836.5                              | 20525 | 4.4926       | 4.4961 | 4.4925 | 4.9656         | 4.9261 | 4.9639 | 836.5                               | 20525 | 9.0059       | 8.9602 | 8.9619 | 9.7617         | 9.7728 | 9.8395 |
| 846.5                              | 20625 | 4.4908       | 4.4871 | 4.5009 | 4.9364         | 4.9828 | 4.9517 | 844.0                               | 20600 | 9.0105       | 8.9668 | 9.0048 | 9.7607         | 9.8243 | 9.8880 |

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| LTE BAND 12 Channel bandwidth: 1.4MHz |       |               |               |               |                |               |               | LTE BAND 12 Channel bandwidth: 3MHz |       |               |               |               |                |               |               |
|---------------------------------------|-------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------------------------|-------|---------------|---------------|---------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                        | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               | Freq.<br>(MHz)                      | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               |
|                                       |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |                                     |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |
| 699.7                                 | 23017 | 1.0936        | 1.0945        | 1.0938        | <b>1.2414</b>  | 1.2335        | 1.2396        | 700.5                               | 23025 | 2.6947        | 2.6995        | 2.7063        | 2.9653         | <b>3.0156</b> | 3.0056        |
| 707.5                                 | 23095 | 1.0926        | 1.0945        | <b>1.0939</b> | 1.2380         | <b>1.2407</b> | 1.2452        | 707.5                               | 23095 | 2.6964        | 2.6990        | <b>2.7117</b> | 2.9891         | 2.9931        | <b>3.0067</b> |
| 715.3                                 | 23173 | <b>1.0937</b> | <b>1.1002</b> | 1.0938        | 1.2280         | 1.2140        | <b>1.2456</b> | 714.5                               | 23165 | <b>2.7037</b> | <b>2.7666</b> | 2.7075        | <b>3.0029</b>  | 2.9125        | 2.9990        |

| LTE BAND 12 Channel bandwidth: 5MHz |       |               |               |               |                |               |               | LTE BAND 12 Channel bandwidth: 10MHz |       |               |               |               |                |               |               |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|---------------|---------------|--------------------------------------|-------|---------------|---------------|---------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               | Freq.<br>(MHz)                       | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               |
|                                     |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |                                      |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |
| 701.5                               | 23035 | 4.4854        | 4.4916        | 4.4917        | <b>4.9745</b>  | <b>4.9618</b> | 4.9522        | 704.0                                | 23060 | <b>8.9840</b> | <b>8.9637</b> | 8.9754        | 9.7299         | <b>9.8035</b> | 9.8436        |
| 707.5                               | 23095 | <b>4.4963</b> | <b>4.5031</b> | <b>4.4992</b> | 4.9656         | 4.9884        | 4.9640        | 707.5                                | 23095 | 8.9664        | 8.9555        | 8.9829        | 9.7589         | 9.7417        | <b>9.8518</b> |
| 713.5                               | 23155 | 4.4946        | 4.4892        | 4.4948        | 4.9577         | 4.9122        | <b>4.9852</b> | 711.0                                | 23130 | 8.9591        | 8.9560        | <b>8.9884</b> | <b>9.8237</b>  | 9.7500        | 9.8271        |

| LTE BAND 13 Channel bandwidth: 5MHz |       |               |               |               |                |               |               | LTE BAND 13 Channel bandwidth: 10MHz |       |               |               |               |                |               |               |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|---------------|---------------|--------------------------------------|-------|---------------|---------------|---------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               | Freq.<br>(MHz)                       | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               |
|                                     |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |                                      |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |
| 779.5                               | 23205 | 4.4888        | 4.4894        | <b>4.5124</b> | 4.9546         | 4.9414        | <b>4.9668</b> | 782.0                                | 23230 | <b>8.9656</b> | <b>8.9505</b> | <b>8.9656</b> | <b>9.7271</b>  | <b>9.7682</b> | <b>9.8182</b> |
| 782.0                               | 23230 | 4.4918        | 4.4974        | 4.4817        | 4.9467         | 4.9502        | 4.9116        |                                      |       |               |               |               |                |               |               |
| 784.5                               | 23255 | <b>4.5016</b> | <b>4.5012</b> | 4.5049        | <b>4.9849</b>  | <b>4.9548</b> | 4.9602        |                                      |       |               |               |               |                |               |               |

| LTE BAND 17 Channel bandwidth: 5MHz |       |               |               |               |                |               |               | LTE BAND 17 Channel bandwidth: 10MHz |       |               |               |               |                |               |               |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|---------------|---------------|--------------------------------------|-------|---------------|---------------|---------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               | Freq.<br>(MHz)                       | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               |
|                                     |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |                                      |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |
| 706.5                               | 23755 | <b>4.5019</b> | <b>4.5066</b> | <b>4.5057</b> | 4.9897         | <b>4.9980</b> | <b>4.9943</b> | 709.0                                | 23780 | <b>9.0121</b> | <b>8.9613</b> | 8.9590        | <b>9.8540</b>  | 9.7600        | 9.7580        |
| 710.0                               | 23790 | 4.5003        | 4.4992        | 4.4990        | <b>5.0021</b>  | 4.9619        | 4.9645        | 710.0                                | 23790 | 8.9971        | 8.9610        | <b>8.9801</b> | 9.8140         | 9.7590        | 9.8100        |
| 713.5                               | 23825 | 4.4980        | 4.4930        | 4.4937        | 4.9692         | 4.9731        | 4.9702        | 711.0                                | 23780 | 9.0016        | 8.9587        | 8.9699        | 9.8000         | <b>9.7680</b> | <b>9.8310</b> |

| LTE BAND 25 Channel bandwidth: 1.4MHz |       |               |               |               |                |               |               | LTE BAND 25 Channel bandwidth: 3MHz |       |               |               |               |                |               |               |
|---------------------------------------|-------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------------------------|-------|---------------|---------------|---------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                        | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               | Freq.<br>(MHz)                      | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               |
|                                       |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |                                     |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |
| 1850.7                                | 26047 | 1.0933        | 1.0973        | 1.0925        | <b>1.2410</b>  | <b>1.2430</b> | 1.2450        | 1851.5                              | 26055 | 2.7005        | 2.7010        | 2.7087        | 2.9990         | <b>3.0140</b> | 2.9950        |
| 1882.5                                | 26365 | 1.0928        | 1.0971        | 1.0929        | 1.2400         | 1.2400        | 1.2470        | 1882.5                              | 26365 | 2.6997        | 2.7026        | <b>2.7103</b> | 2.9840         | 3.0120        | <b>3.0060</b> |
| 1914.3                                | 26683 | <b>1.0947</b> | <b>1.0975</b> | <b>1.0949</b> | <b>1.2410</b>  | 1.2420        | <b>1.2500</b> | 1913.5                              | 26675 | <b>2.7008</b> | <b>2.7032</b> | 2.7078        | <b>3.0130</b>  | 3.0130        | 3.0010        |

| LTE BAND 25 Channel bandwidth: 5MHz |       |               |               |               |                |               |               | LTE BAND 25 Channel bandwidth: 10MHz |       |               |               |               |                |               |               |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|---------------|---------------|--------------------------------------|-------|---------------|---------------|---------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               | Freq.<br>(MHz)                       | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               |
|                                     |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |                                      |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |
| 1852.5                              | 26065 | 4.5008        | 4.5000        | 4.4938        | 4.948          | 4.968         | 4.978         | 1855.0                               | 26090 | 9.0004        | 8.9605        | 8.9830        | 9.818          | 9.795         | 9.836         |
| 1882.5                              | 26365 | <b>4.5011</b> | 4.5048        | <b>4.5037</b> | 4.9840         | <b>4.9900</b> | <b>4.9800</b> | 1882.5                               | 26365 | <b>9.0078</b> | 8.9614        | 8.9760        | 9.8320         | <b>9.7460</b> | 9.7890        |
| 1912.5                              | 26665 | 4.4980        | <b>4.5083</b> | 4.5008        | <b>4.9930</b>  | 4.9520        | 4.9680        | 1910.0                               | 26640 | 8.9947        | <b>8.9638</b> | <b>8.9851</b> | <b>9.8370</b>  | 9.3818        | <b>9.8790</b> |

| LTE BAND 25 Channel bandwidth: 15MHz |       |                |                |                |                |                |                | LTE BAND 25 Channel bandwidth: 20MHz |       |                |                |                |                |                |                |
|--------------------------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz)   |                |                | 26 dB BW (MHz) |                |                | Freq.<br>(MHz)                       | CH    | 99% BW (MHz)   |                |                | 26 dB BW (MHz) |                |                |
|                                      |       | QPSK           | 16QAM          | 64QAM          | QPSK           | 16QAM          | 64QAM          |                                      |       | QPSK           | 16QAM          | 64QAM          | QPSK           | 16QAM          | 64QAM          |
| 1857.5                               | 26115 | <b>13.4770</b> | 13.4520        | 13.4600        | <b>14.7000</b> | 14.6500        | <b>14.6400</b> | 1860.0                               | 26140 | 17.9100        | 17.9230        | 17.9300        | 19.3800        | 19.4300        | 19.5100        |
| 1882.5                               | 26365 | 13.4600        | 13.4490        | 13.4590        | 14.6800        | <b>14.7600</b> | 14.6000        | 1882.5                               | 26365 | <b>17.9280</b> | <b>17.9460</b> | 17.9330        | <b>19.4300</b> | <b>19.5800</b> | 19.4600        |
| 1907.5                               | 26615 | 13.4710        | <b>13.4610</b> | <b>13.4650</b> | <b>14.7000</b> | 14.6800        | <b>14.6400</b> | 1905.0                               | 26590 | 17.9270        | 17.9390        | <b>17.9480</b> | 19.4200        | 19.5500        | <b>19.5400</b> |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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| LTE BAND 25 Channel bandwidth: 1.4MHz |       |              |        |        |                |        |        | LTE BAND 25 Channel bandwidth: 3MHz |       |              |        |        |                |        |        |
|---------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|-------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|
| Freq.<br>(MHz)                        | CH    | 99% BW (MHz) |        |        | 26 dB BW (MHz) |        |        | Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        | 26 dB BW (MHz) |        |        |
|                                       |       | QPSK         | 16QAM  | 64QAM  | QPSK           | 16QAM  | 64QAM  |                                     |       | QPSK         | 16QAM  | 64QAM  | QPSK           | 16QAM  | 64QAM  |
| 1850.7                                | 26047 | 1.0933       | 1.0973 | 1.0925 | 1.2410         | 1.2430 | 1.2450 | 1851.5                              | 26055 | 2.7005       | 2.7010 | 2.7087 | 2.9990         | 3.0140 | 2.9950 |
| 1882.5                                | 26365 | 1.0928       | 1.0971 | 1.0929 | 1.2400         | 1.2400 | 1.2470 | 1882.5                              | 26365 | 2.6997       | 2.7026 | 2.7103 | 2.9840         | 3.0120 | 3.0060 |
| 1914.3                                | 26683 | 1.0947       | 1.0975 | 1.0949 | 1.2410         | 1.2420 | 1.2500 | 1913.5                              | 26675 | 2.7008       | 2.7032 | 2.7078 | 3.0130         | 3.0130 | 3.0010 |

| LTE BAND 25 Channel bandwidth: 5MHz |       |               |               |               |                |               |               | LTE BAND 25 Channel bandwidth: 10MHz |       |               |               |               |                |               |               |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|---------------|---------------|--------------------------------------|-------|---------------|---------------|---------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               | Freq.<br>(MHz)                       | CH    | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               |
|                                     |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |                                      |       | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |
| 1852.5                              | 26065 | 4.5008        | 4.5000        | 4.4938        | 4.948          | 4.968         | 4.978         | 1855.0                               | 26090 | 9.0004        | 8.9605        | 8.9830        | 9.818          | 9.795         | 9.836         |
| 1882.5                              | 26365 | <b>4.5011</b> | 4.5048        | <b>4.5037</b> | 4.9840         | <b>4.9900</b> | <b>4.9800</b> | 1882.5                               | 26365 | <b>9.0078</b> | 8.9614        | 8.9760        | 9.8320         | <b>9.7460</b> | 9.7890        |
| 1912.5                              | 26665 | 4.4980        | <b>4.5083</b> | 4.5008        | <b>4.9930</b>  | 4.9520        | 4.9680        | 1910.0                               | 26640 | 8.9947        | <b>8.9638</b> | <b>8.9851</b> | <b>9.8370</b>  | 9.3818        | <b>9.8790</b> |

| LTE BAND 25 Channel bandwidth: 15MHz |       |              |         |         |                |         |         | LTE BAND 25 Channel bandwidth: 20MHz |       |              |         |         |                |         |         |
|--------------------------------------|-------|--------------|---------|---------|----------------|---------|---------|--------------------------------------|-------|--------------|---------|---------|----------------|---------|---------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |         |         | 26 dB BW (MHz) |         |         | Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |         |         | 26 dB BW (MHz) |         |         |
|                                      |       | QPSK         | 16QAM   | 64QAM   | QPSK           | 16QAM   | 64QAM   |                                      |       | QPSK         | 16QAM   | 64QAM   | QPSK           | 16QAM   | 64QAM   |
| 1857.5                               | 26115 | 13.4770      | 13.4520 | 13.4600 | 14.7000        | 14.6500 | 14.6400 | 1860.0                               | 26140 | 17.9100      | 17.9230 | 17.9300 | 19.3800        | 19.4300 | 19.5100 |
| 1882.5                               | 26365 | 13.4600      | 13.4490 | 13.4590 | 14.6800        | 14.7600 | 14.6000 | 1882.5                               | 26365 | 17.9280      | 17.9460 | 17.9330 | 19.4300        | 19.5800 | 19.4600 |
| 1907.5                               | 26615 | 13.4710      | 13.4610 | 13.4650 | 14.7000        | 14.6800 | 14.6400 | 1905.0                               | 26590 | 17.9270      | 17.9390 | 17.9480 | 19.4200        | 19.5500 | 19.5400 |

| LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz |       |              |        |        |                |        |        | LTE BAND 26 for part 90S Channel bandwidth: 3MHz |       |              |        |        |                |        |        |
|----------------------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|--------------------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|
| Freq.<br>(MHz)                                     | CH    | 99% BW (MHz) |        |        | 26 dB BW (MHz) |        |        | Freq.<br>(MHz)                                   | CH    | 99% BW (MHz) |        |        | 26 dB BW (MHz) |        |        |
|                                                    |       | QPSK         | 16QAM  | 64QAM  | QPSK           | 16QAM  | 64QAM  |                                                  |       | QPSK         | 16QAM  | 64QAM  | QPSK           | 16QAM  | 64QAM  |
| 814.7                                              | 26697 | 1.0928       | 1.0954 | 1.0946 | 1.2440         | 1.2330 | 1.2430 | 815.5                                            | 26705 | 2.6960       | 2.6973 | 2.7082 | 2.9770         | 2.9970 | 3.0090 |
| 819.0                                              | 26740 | 1.0917       | 1.0940 | 1.0936 | 1.2360         | 1.0940 | 1.2450 | 819.0                                            | 26740 | 2.6932       | 2.6946 | 2.7120 | 2.9900         | 2.9820 | 3.0060 |
| 823.3                                              | 26783 | 1.0934       | 1.0890 | 1.0940 | 1.2380         | 1.2280 | 1.2420 | 822.5                                            | 26775 | 2.6897       | 2.6996 | 2.7067 | 3.0050         | 2.9960 | 3.0050 |

| LTE BAND 26 for part 90S Channel bandwidth: 5MHz |       |              |        |        |                |        |        | LTE BAND 26 for part 90S Channel bandwidth: 10MHz |       |              |        |        |                |        |        |
|--------------------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|---------------------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|
| Freq.<br>(MHz)                                   | CH    | 99% BW (MHz) |        |        | 26 dB BW (MHz) |        |        | Freq.<br>(MHz)                                    | CH    | 99% BW (MHz) |        |        | 26 dB BW (MHz) |        |        |
|                                                  |       | QPSK         | 16QAM  | 64QAM  | QPSK           | 16QAM  | 64QAM  |                                                   |       | QPSK         | 16QAM  | 64QAM  | QPSK           | 16QAM  | 64QAM  |
| 816.5                                            | 26715 | 4.4943       | 4.5007 | 4.4944 | 4.9840         | 4.9480 | 4.9830 | 819.0                                             | 26740 | 8.9702       | 8.9654 | 8.9865 | 9.8390         | 9.7620 | 9.8760 |
| 819.0                                            | 26740 | 4.4949       | 4.5007 | 4.4971 | 4.9600         | 4.9280 | 4.9760 |                                                   |       |              |        |        |                |        |        |
| 821.5                                            | 26765 | 4.5004       | 4.4941 | 4.4975 | 4.9480         | 4.9400 | 4.9790 |                                                   |       |              |        |        |                |        |        |

| LTE BAND 30 Channel bandwidth: 5MHz |       |              |        |        |                |        |        | LTE BAND 30 Channel bandwidth: 10MHz |       |              |        |        |                |       |       |
|-------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|--------------------------------------|-------|--------------|--------|--------|----------------|-------|-------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        | 26 dB BW (MHz) |        |        | Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        | 26 dB BW (MHz) |       |       |
|                                     |       | QPSK         | 16QAM  | 64QAM  | QPSK           | 16QAM  | 64QAM  |                                      |       | QPSK         | 16QAM  | 64QAM  | QPSK           | 16QAM | 64QAM |
| 2307.5                              | 27685 | 4.5046       | 4.5098 | 4.5025 | 5.0140         | 4.9970 | 4.9880 | 2310.0                               | 27710 | 9.0063       | 8.9575 | 8.9773 | 9.866          | 9.773 | 9.789 |
| 2310.0                              | 27710 | 4.5034       | 4.5062 | 4.4964 | 4.9920         | 4.9650 | 4.9700 |                                      |       |              |        |        |                |       |       |
| 2312.5                              | 27735 | 4.5042       | 4.4991 | 4.5018 | 5.0080         | 4.9730 | 4.9450 |                                      |       |              |        |        |                |       |       |

| LTE BAND 41 Channel bandwidth: 5MHz |       |              |        |        |                |        |        | LTE BAND 41 Channel bandwidth: 10MHz |       |              |        |        |                |        |        |
|-------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|--------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|
| Freq.<br>(MHz)                      | CH    | 99% BW (MHz) |        |        | 26 dB BW (MHz) |        |        | Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |        |        | 26 dB BW (MHz) |        |        |
|                                     |       | QPSK         | 16QAM  | 64QAM  | QPSK           | 16QAM  | 64QAM  |                                      |       | QPSK         | 16QAM  | 64QAM  | QPSK           | 16QAM  | 64QAM  |
| 2498.5                              | 39675 | 4.5102       | 4.5054 | 4.4926 | 4.9430         | 4.9610 | 4.9700 | 2501.0                               | 39700 | 8.9912       | 8.9673 | 8.9718 | 9.8020         | 9.8150 | 9.9440 |
| 2593.0                              | 40620 | 4.5085       | 4.5013 | 4.4952 | 4.9810         | 4.9750 | 4.9280 | 2593.0                               | 40620 | 8.9855       | 8.9606 | 8.9785 | 9.7980         | 9.8200 | 9.8590 |
| 2687.5                              | 41565 | 4.5046       | 4.5127 | 4.4945 | 4.9660         | 4.9620 | 4.9570 | 2685.0                               | 41540 | 9.0017       | 8.9728 | 8.9889 | 9.8060         | 9.7660 | 9.8430 |

| LTE BAND 41 Channel bandwidth: 15MHz |       |              |         |         |                |         |         | LTE BAND 41 Channel bandwidth: 20MHz |       |              |         |         |                |         |         |
|--------------------------------------|-------|--------------|---------|---------|----------------|---------|---------|--------------------------------------|-------|--------------|---------|---------|----------------|---------|---------|
| Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |         |         | 26 dB BW (MHz) |         |         | Freq.<br>(MHz)                       | CH    | 99% BW (MHz) |         |         | 26 dB BW (MHz) |         |         |
|                                      |       | QPSK         | 16QAM   | 64QAM   | QPSK           | 16QAM   | 64QAM   |                                      |       | QPSK         | 16QAM   | 64QAM   | QPSK           | 16QAM   | 64QAM   |
| 2503.5                               | 39725 | 13.4730      | 13.4660 | 13.4300 | 14.5700        | 14.7000 | 14.5000 | 2506.0                               | 39750 | 17.9200      | 17.8860 | 17.9020 | 19.4800        | 19.4500 | 19.3500 |
| 2593.0                               | 40620 | 13.4730      | 13.4500 | 13.4310 | 14.6200        | 14.6800 | 14.7400 | 2593.0                               | 40620 | 17.9230      | 17.9150 | 17.9190 | 19.3600        | 19.4200 | 19.4300 |
| 2682.5                               | 41515 | 13.4890      | 13.4800 | 13.4330 | 14.6700        | 14.6700 | 14.5400 | 2680.0                               | 41490 | 17.8960      | 17.8730 | 17.8820 | 19.2800        | 19.2700 | 19.2100 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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| LTE BAND 66 Channel bandwidth: 1.4MHz |        |               |               |               |                |               |               | LTE BAND 66 Channel bandwidth: 3MHz |        |               |               |               |                |               |               |
|---------------------------------------|--------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------------------------|--------|---------------|---------------|---------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                        | CH     | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               | Freq.<br>(MHz)                      | CH     | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               |
|                                       |        | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |                                     |        | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |
| 1710.7                                | 131979 | 1.0942        | <b>1.0990</b> | <b>1.0979</b> | 1.2420         | 1.2470        | <b>1.2370</b> | 1711.5                              | 131987 | <b>2.7014</b> | <b>2.7057</b> | 2.7068        | <b>3.0150</b>  | <b>3.0130</b> | <b>3.0200</b> |
| 1745.0                                | 132322 | <b>1.0958</b> | 1.0967        | 1.0946        | 1.2370         | <b>1.2480</b> | 1.2350        | 1745.0                              | 132322 | 2.6977        | 2.6998        | <b>2.7108</b> | 2.9990         | 3.0120        | 3.0090        |
| 1779.3                                | 132665 | 1.0953        | 1.0974        | 1.0944        | <b>1.2430</b>  | 1.2360        | <b>1.2370</b> | 1778.5                              | 132657 | 2.6974        | 2.6976        | 2.7067        | 2.9870         | <b>3.0130</b> | 3.0150        |

| LTE BAND 66 Channel bandwidth: 5MHz |        |               |               |               |                |               |               | LTE BAND 66 Channel bandwidth: 10MHz |        |               |               |               |                |               |               |
|-------------------------------------|--------|---------------|---------------|---------------|----------------|---------------|---------------|--------------------------------------|--------|---------------|---------------|---------------|----------------|---------------|---------------|
| Freq.<br>(MHz)                      | CH     | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               | Freq.<br>(MHz)                       | CH     | 99% BW (MHz)  |               |               | 26 dB BW (MHz) |               |               |
|                                     |        | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |                                      |        | QPSK          | 16QAM         | 64QAM         | QPSK           | 16QAM         | 64QAM         |
| 1712.5                              | 131997 | <b>4.5035</b> | 4.5076        | 4.4988        | <b>5.0100</b>  | 4.9540        | 4.9590        | 1715.0                               | 132022 | 8.9760        | 8.9736        | 8.9869        | 9.8040         | 9.7570        | 9.7970        |
| 1745.0                              | 132322 | 4.5002        | <b>4.5083</b> | <b>4.5011</b> | 4.9910         | <b>5.0010</b> | <b>4.9970</b> | 1745.0                               | 132322 | <b>9.0053</b> | <b>8.9874</b> | 8.9884        | 9.8430         | <b>9.7830</b> | 9.7960        |
| 1777.5                              | 132647 | 4.4979        | 4.5048        | 4.4908        | 4.9800         | 4.9850        | 4.9510        | 1775.0                               | 132622 | 9.0035        | 8.9702        | <b>9.0038</b> | <b>9.8570</b>  | 9.7510        | <b>9.8190</b> |

| LTE BAND 66 Channel bandwidth: 15MHz |        |                |                |                |                |                |                | LTE BAND 66 Channel bandwidth: 20MHz |        |                |                |                |                |                |                |
|--------------------------------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------------------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|
| Freq.<br>(MHz)                       | CH     | 99% BW (MHz)   |                |                | 26 dB BW (MHz) |                |                | Freq.<br>(MHz)                       | CH     | 99% BW (MHz)   |                |                | 26 dB BW (MHz) |                |                |
|                                      |        | QPSK           | 16QAM          | 64QAM          | QPSK           | 16QAM          | 64QAM          |                                      |        | QPSK           | 16QAM          | 64QAM          | QPSK           | 16QAM          | 64QAM          |
| 1717.5                               | 132047 | 13.4260        | 13.4340        | 13.4290        | 14.6200        | 14.5400        | 14.6700        | 1720.0                               | 132072 | 17.8010        | 17.8150        | 17.8000        | 19.2200        | 19.1800        | 19.1900        |
| 1745.0                               | 132322 | 13.5170        | 13.5030        | 13.4970        | <b>14.6900</b> | <b>14.7300</b> | <b>14.7500</b> | 1745.0                               | 132322 | 18.0150        | 18.0460        | 18.0340        | 19.6500        | 19.4000        | 19.4800        |
| 1772.5                               | 132597 | <b>13.5230</b> | <b>13.5310</b> | <b>13.5290</b> | 14.6300        | 14.7000        | <b>14.7500</b> | 1770.0                               | 132572 | <b>18.0790</b> | <b>18.1110</b> | <b>18.0770</b> | <b>19.7300</b> | <b>19.6600</b> | <b>19.6400</b> |

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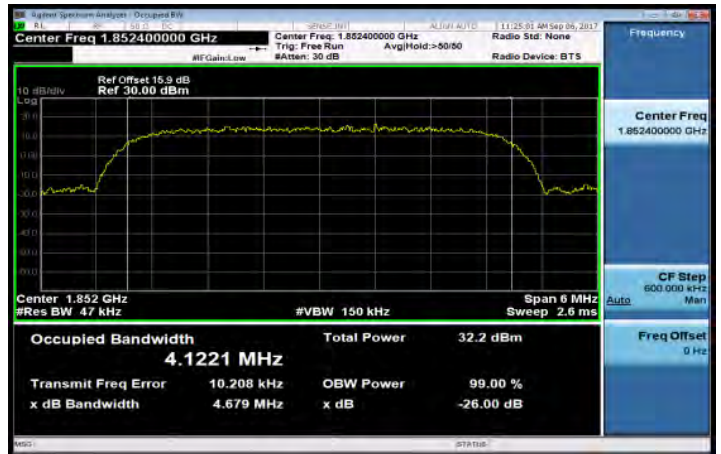
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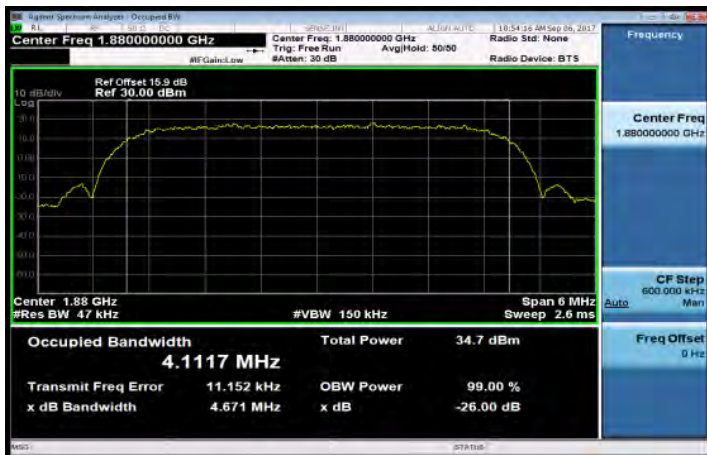
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HSDPA\_B2\_LowCH9262-1852.4



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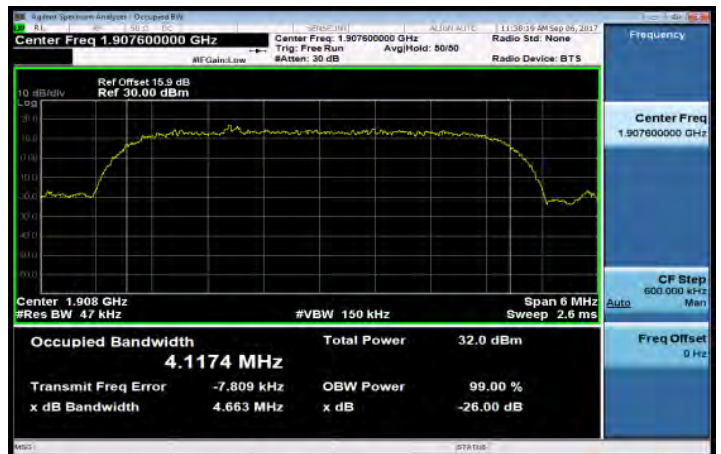
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WCDMA\_B2\_HighCH9538-1907.6



HSDPA\_B2\_HighCH9538-1907.6



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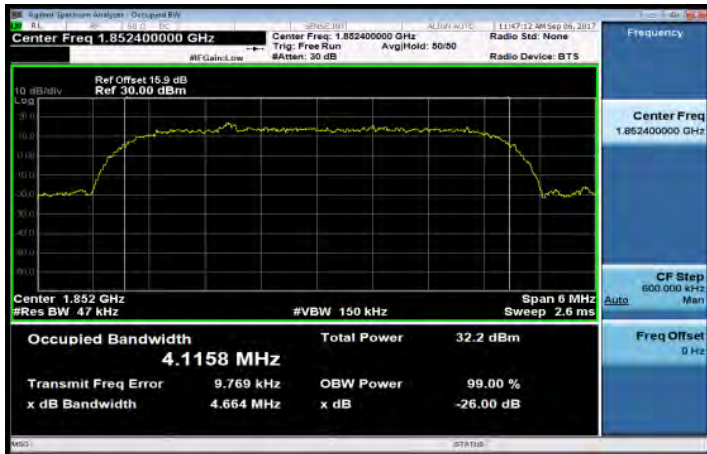
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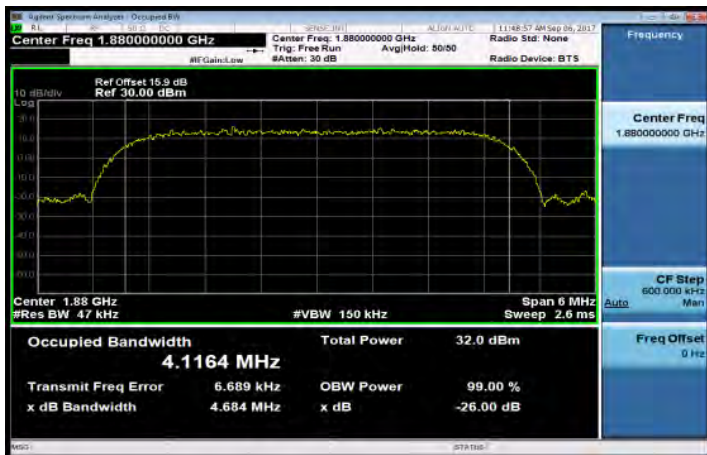
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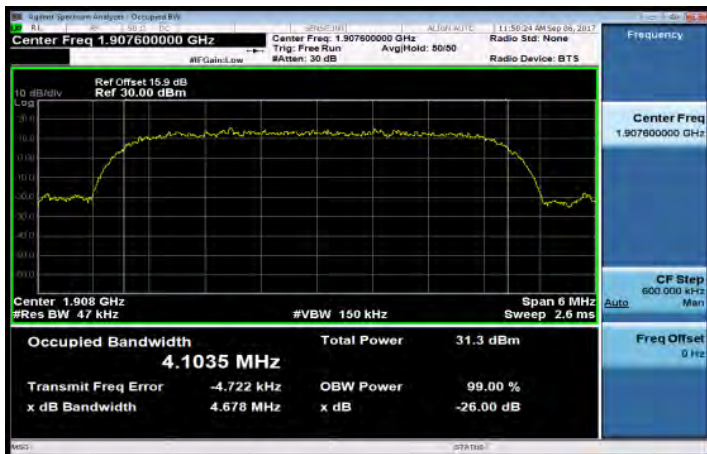
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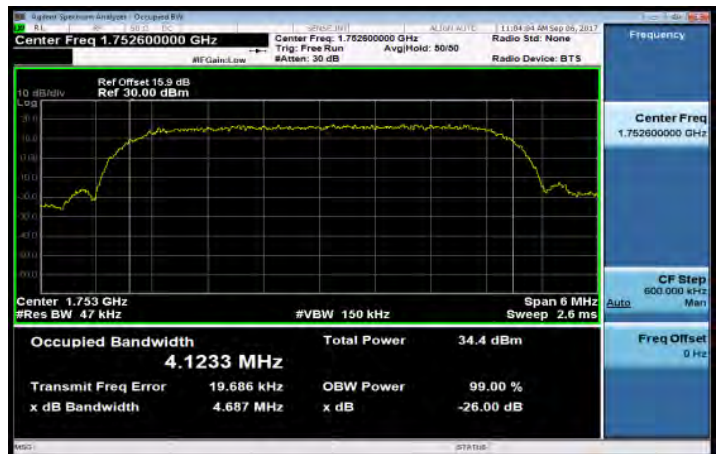
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HSUPA\_B2\_HighCH9538-1907.6



WCDMA\_B4\_HighCH1513-1752.6



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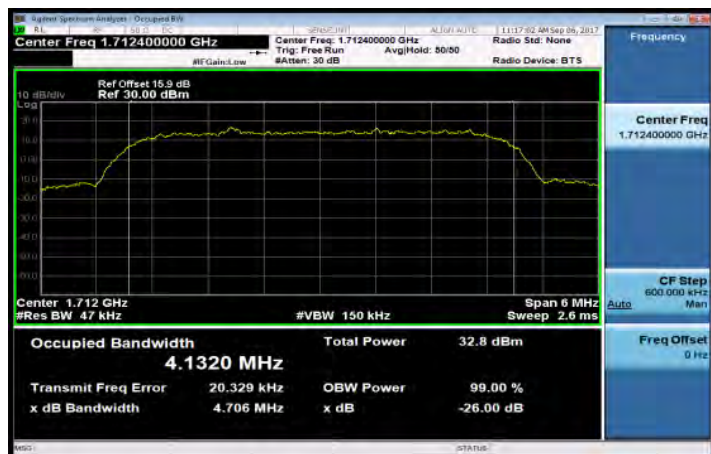
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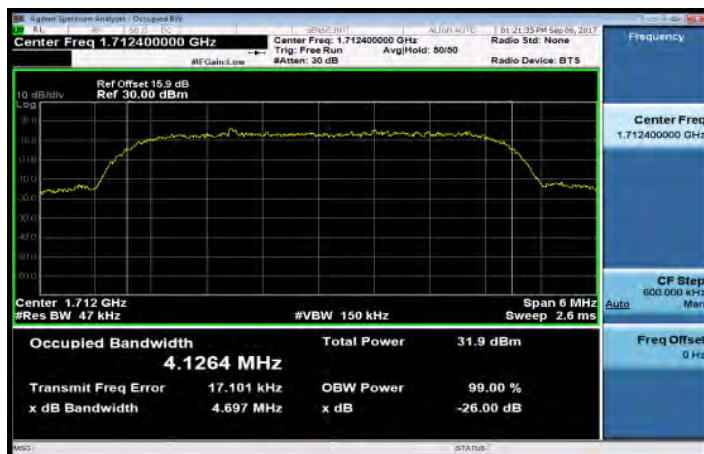
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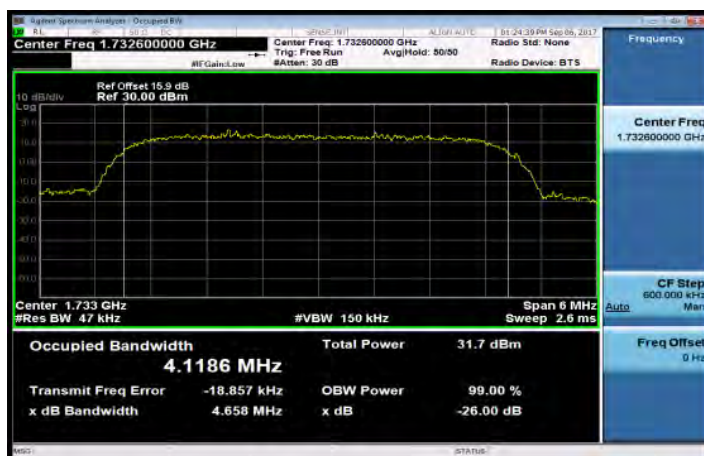
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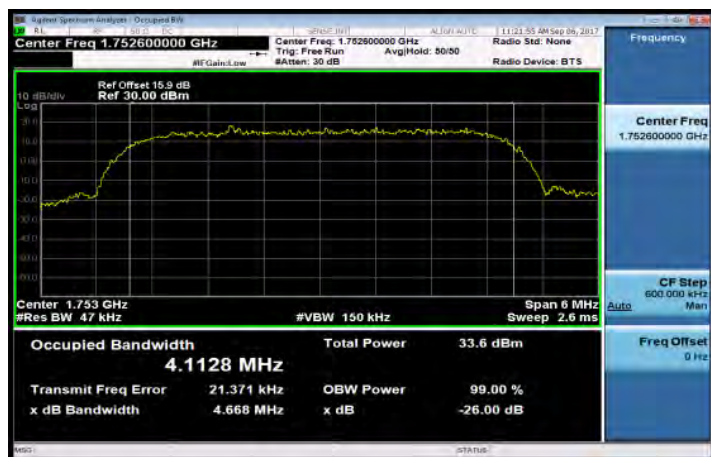
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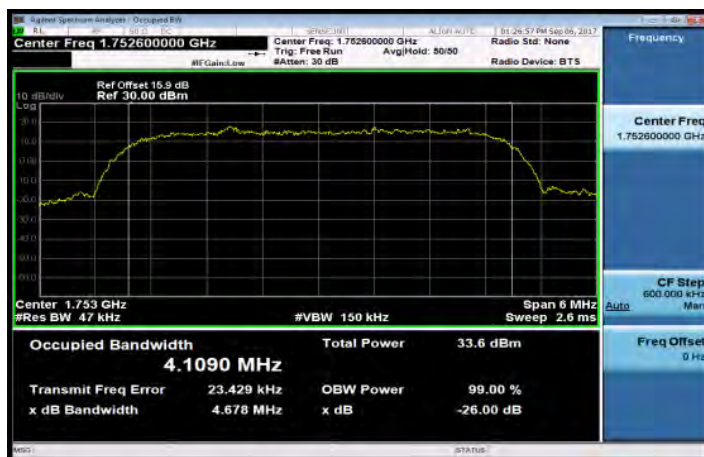
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HSDPA\_B4\_HighCH1513-1752.6



HSUPA\_B4\_HighCH1513-1752.6



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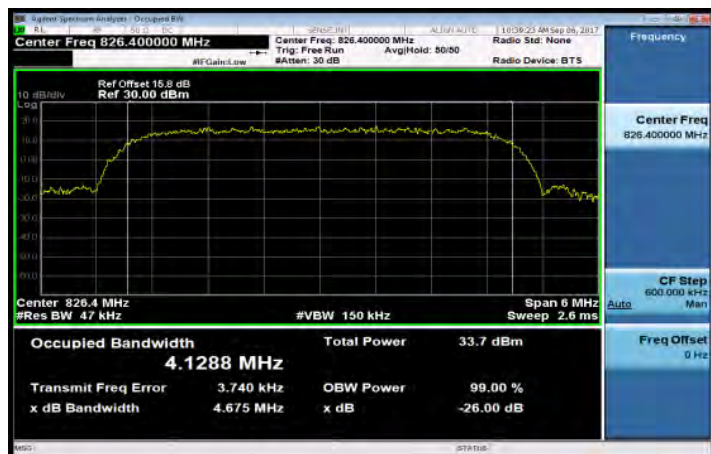
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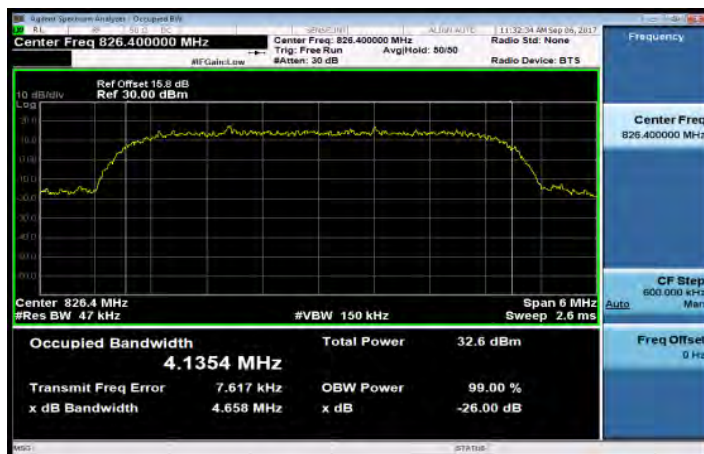
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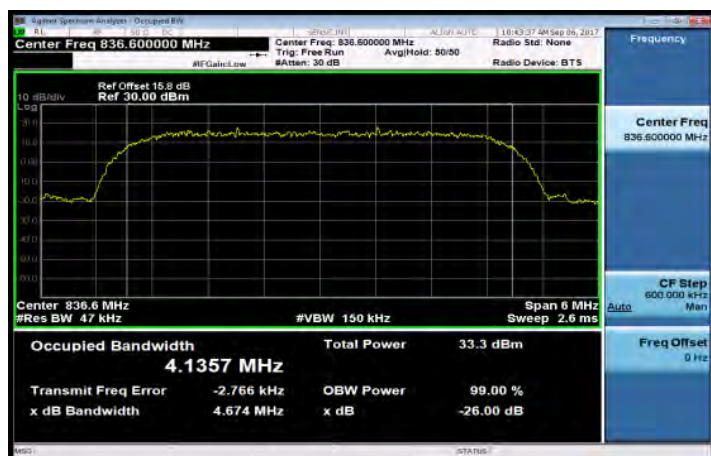
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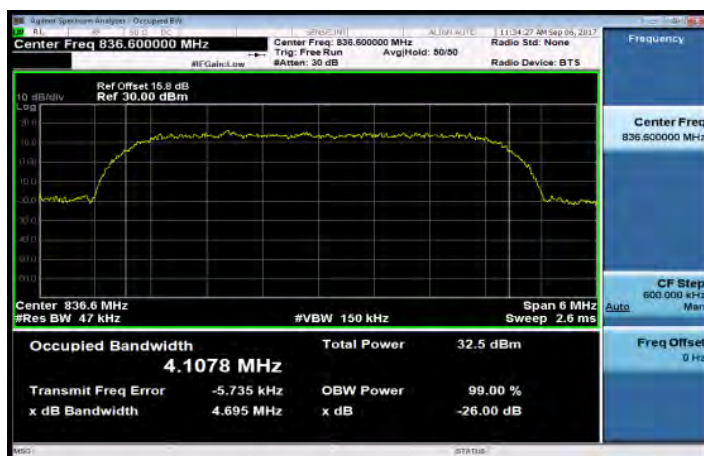
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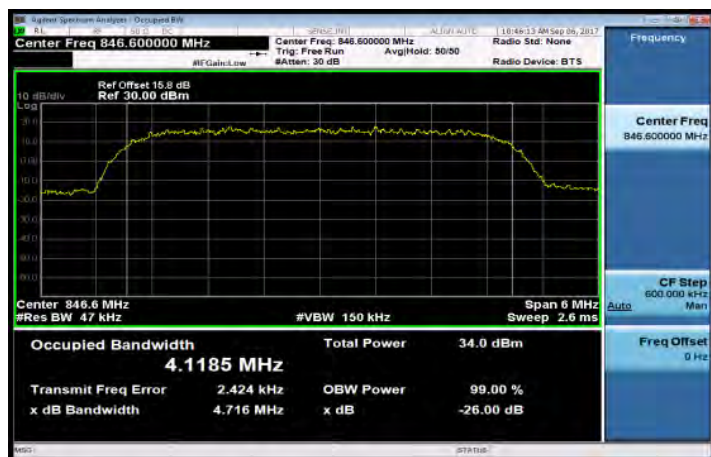
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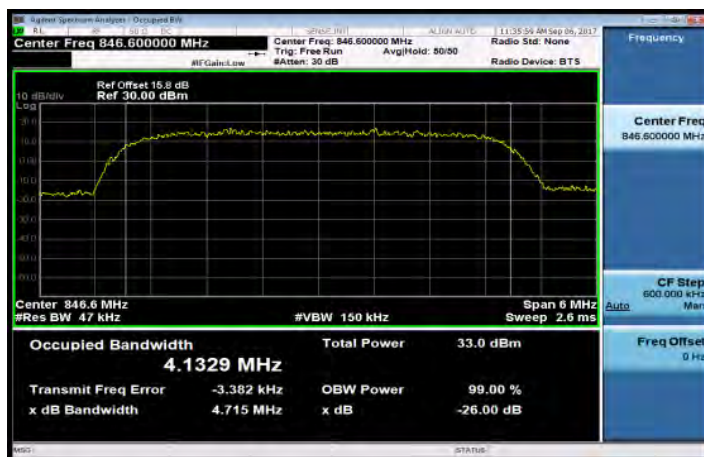
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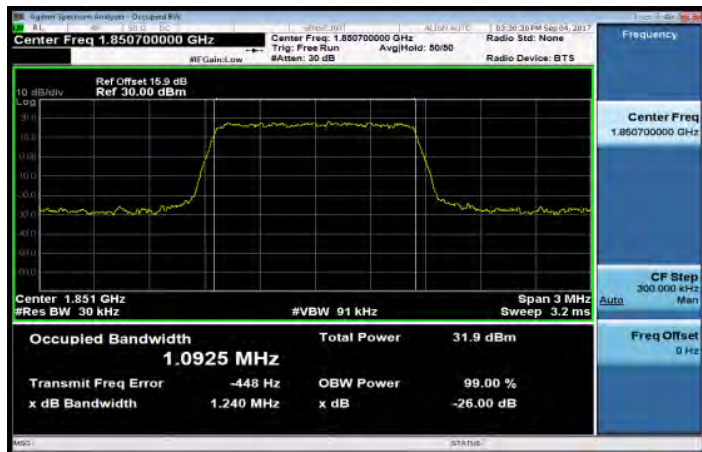


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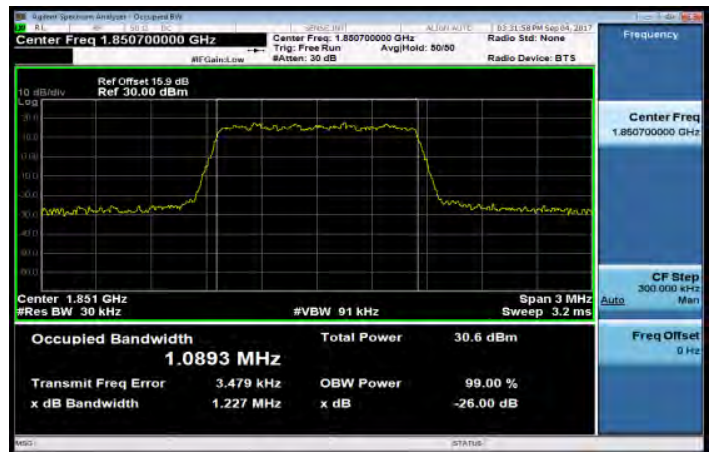
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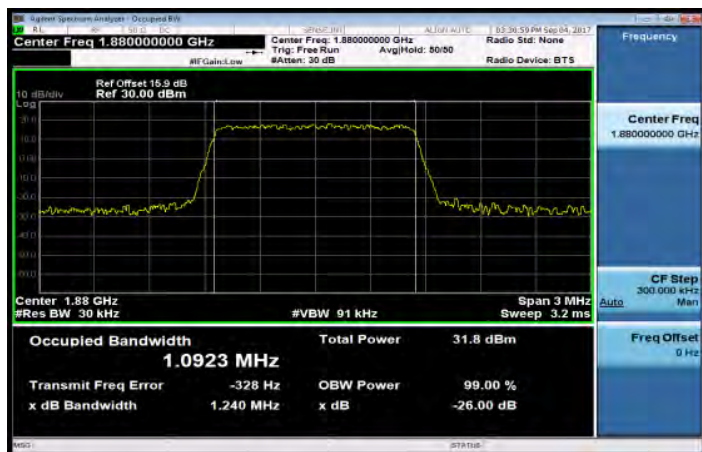
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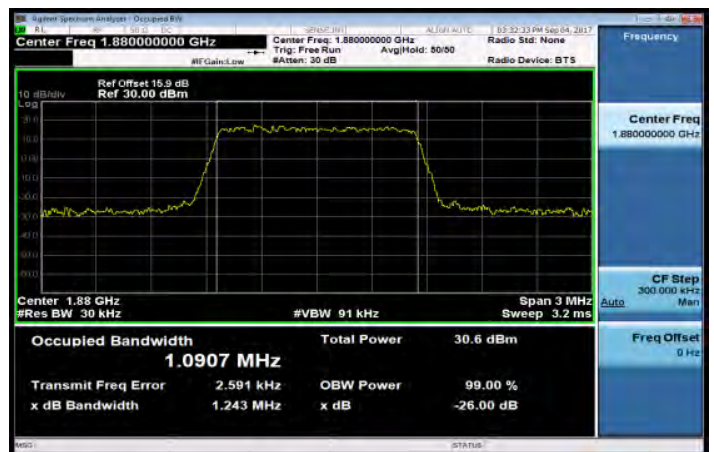
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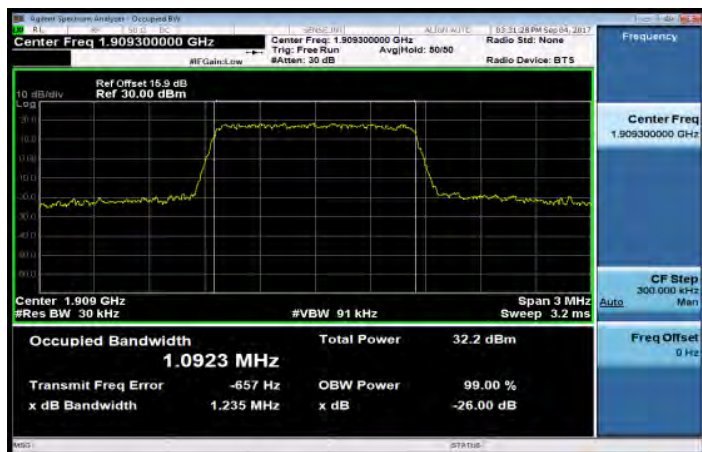
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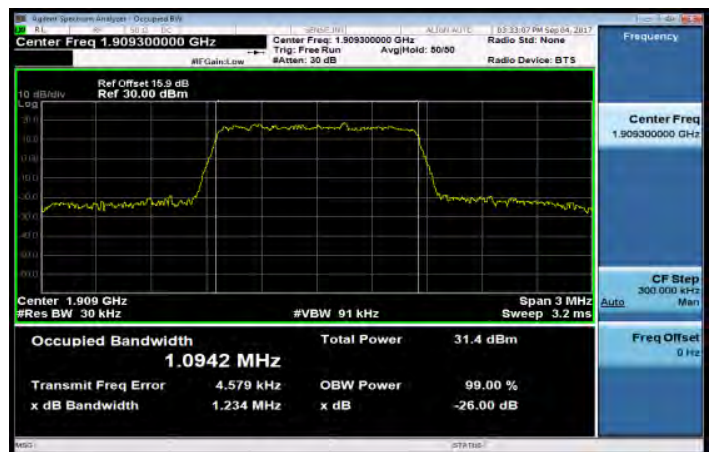
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Band2\_1\_4MHz\_QPSK\_6\_0\_HighCH19193-1909.3



Band2\_1\_4MHz\_16QAM\_6\_0\_HighCH19193-1909.3



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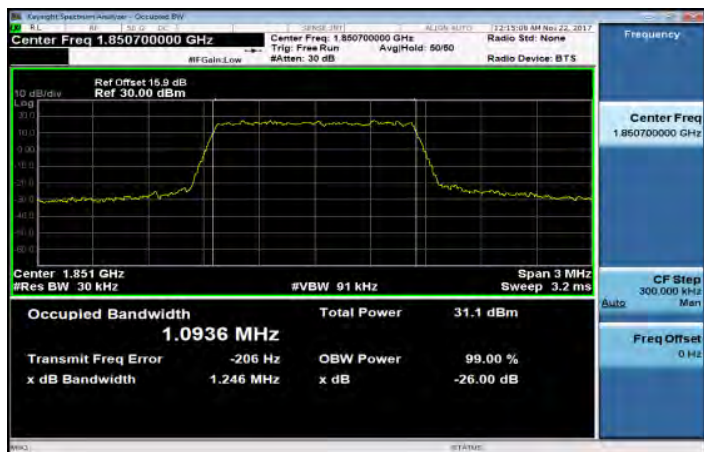
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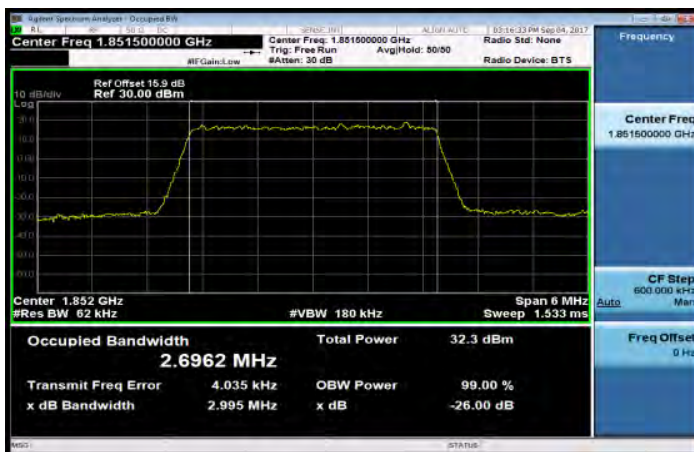
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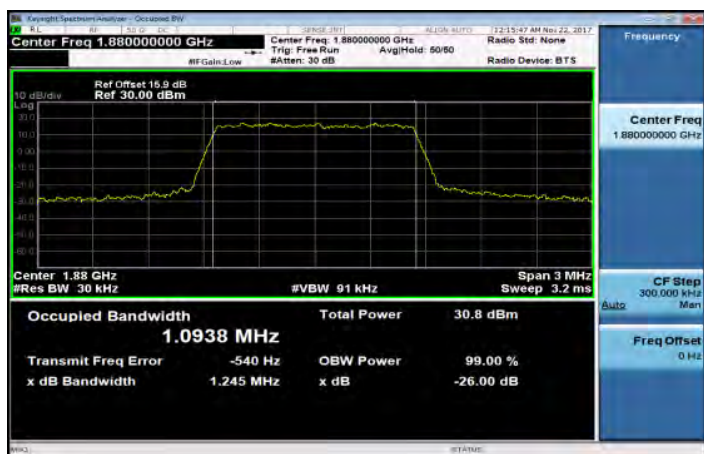
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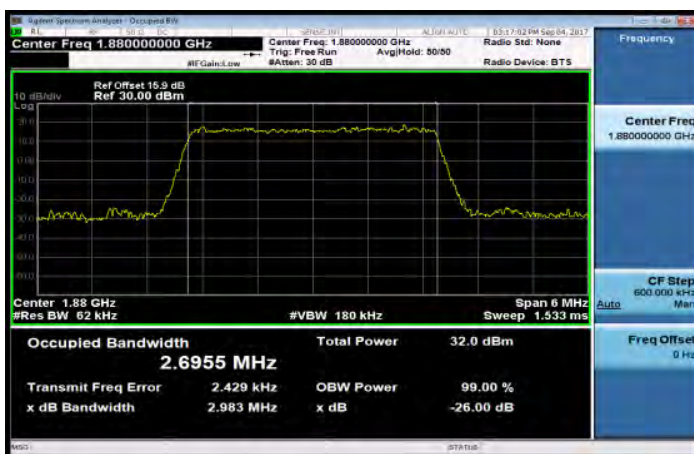
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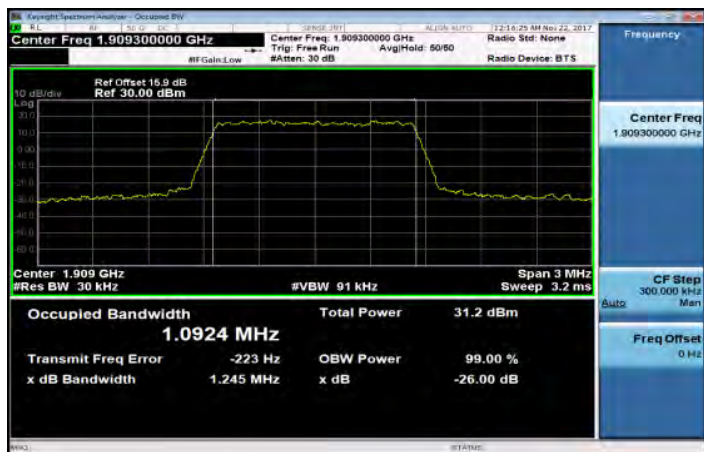
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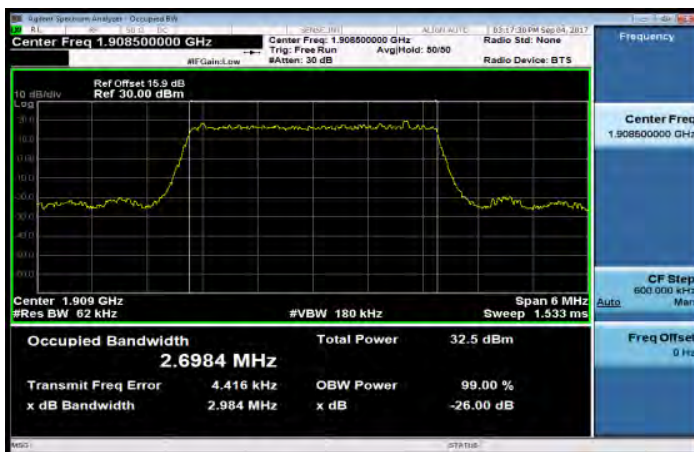
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Band2\_1\_4MHz\_64QAM\_6\_0\_HighCH19193-1909.3



Band2\_3MHz\_QPSK\_15\_0\_HighCH19185-1908.5



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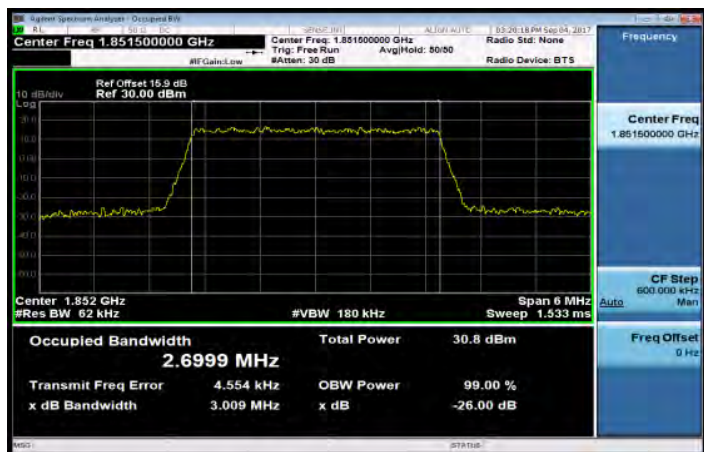
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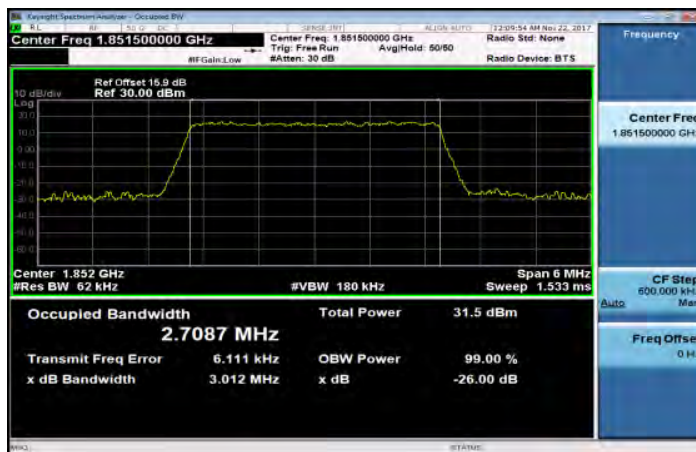
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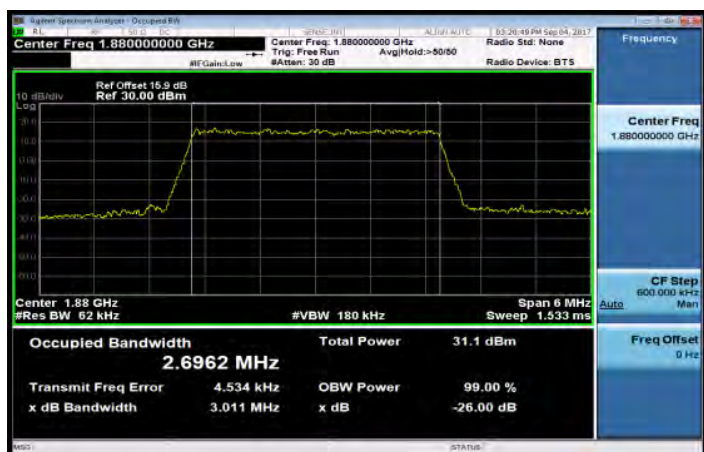
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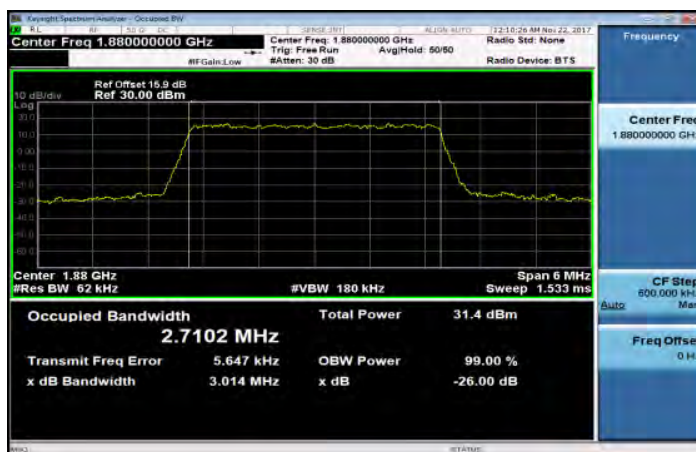
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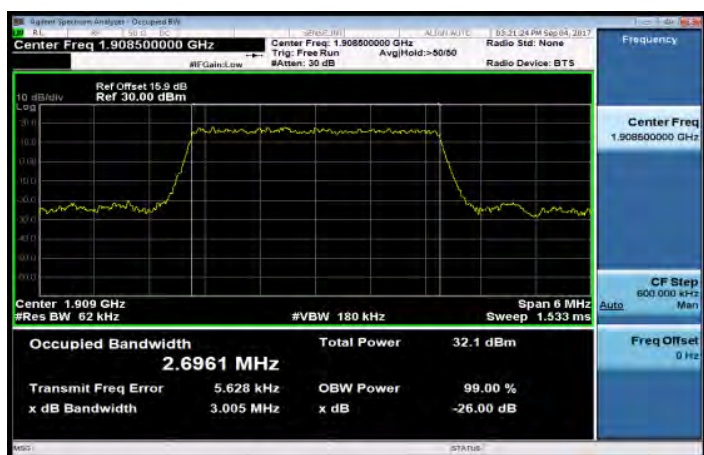
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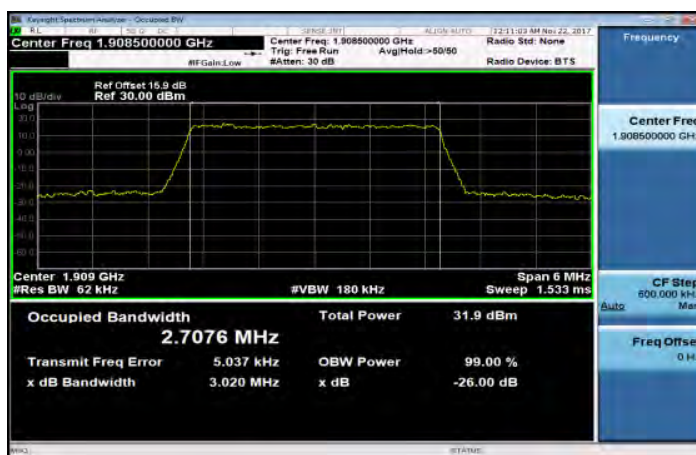
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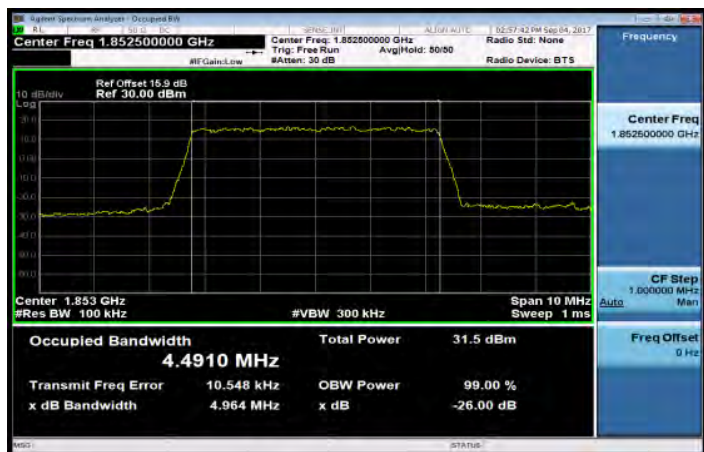


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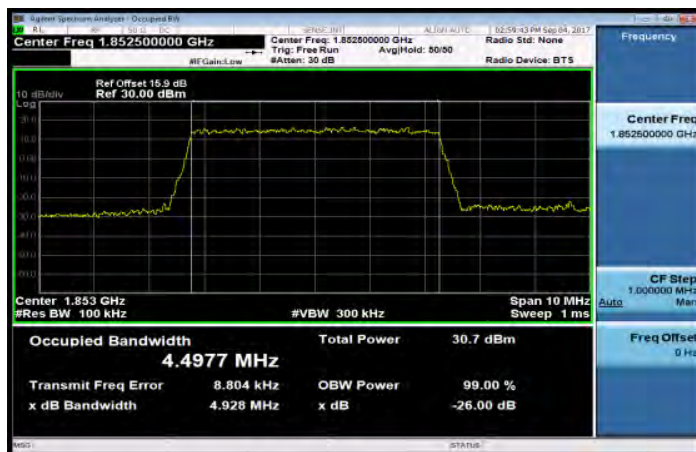
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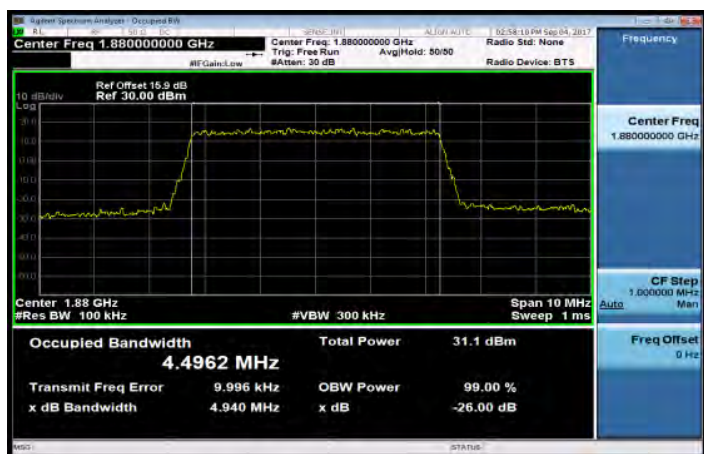
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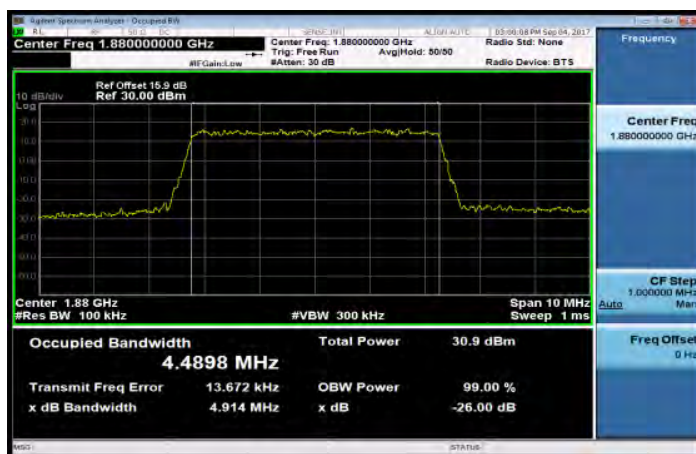
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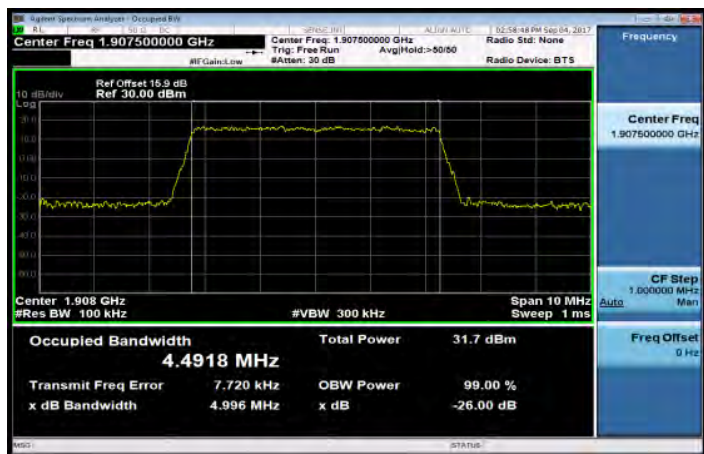
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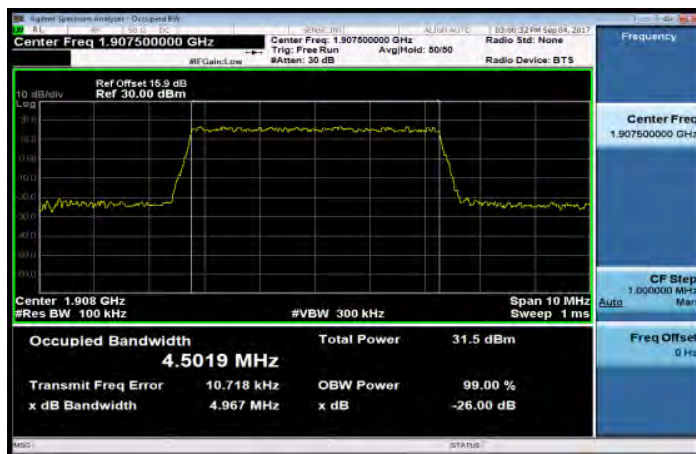
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Band2\_5MHz\_QPSK\_25\_0\_HighCH19175-1907.5



Band2\_5MHz\_16QAM\_25\_0\_HighCH19175-1907.5



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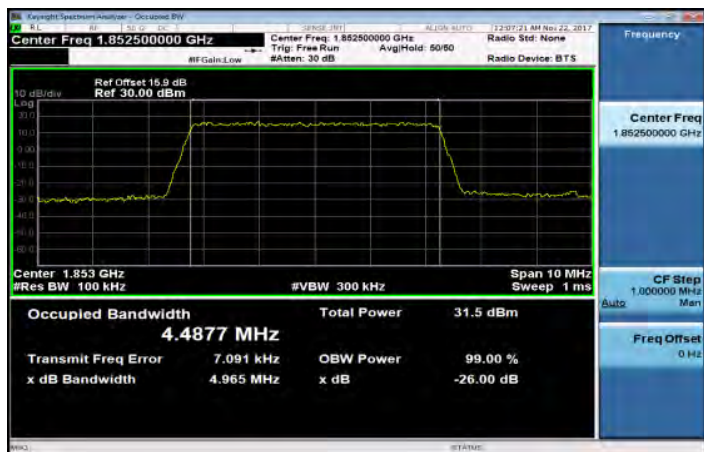
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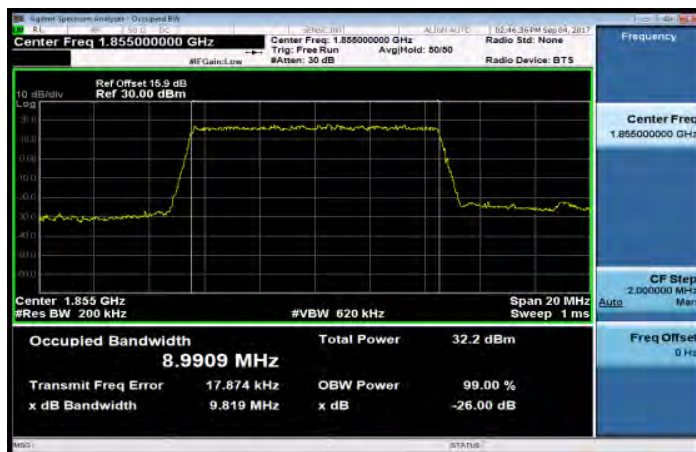
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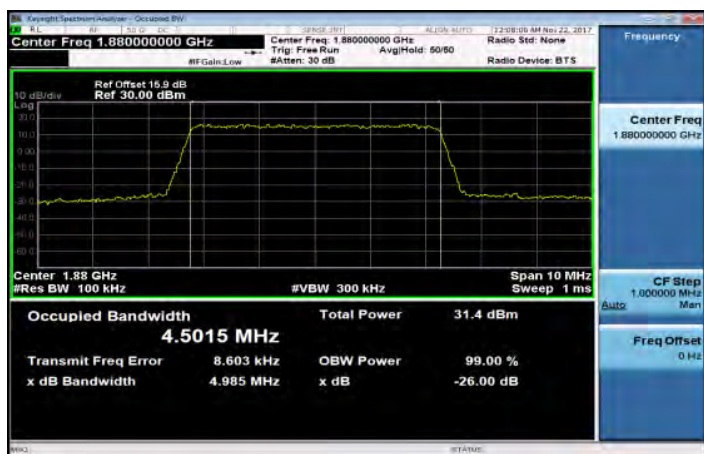
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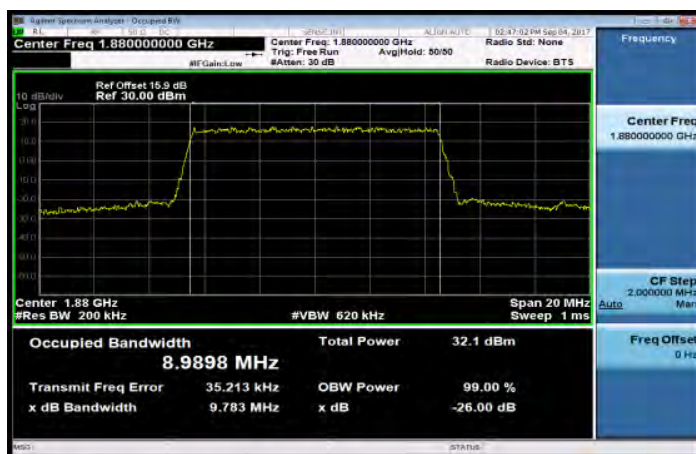
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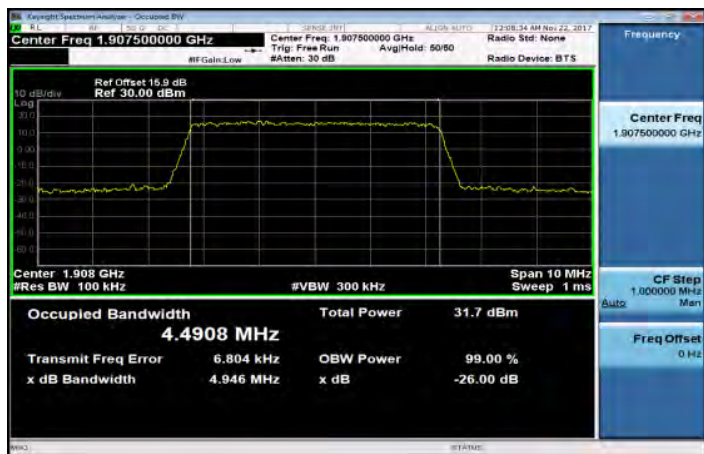
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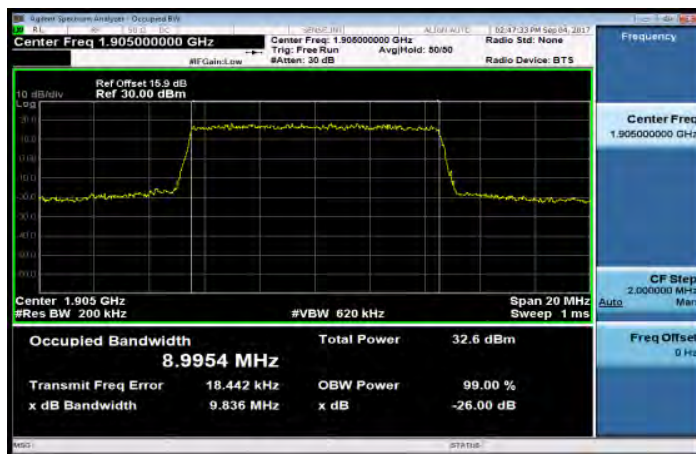
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Band2\_5MHz\_64QAM\_25\_0\_HighCH19175-1907.5



Band2\_10MHz\_QPSK\_50\_0\_HighCH19150-1905



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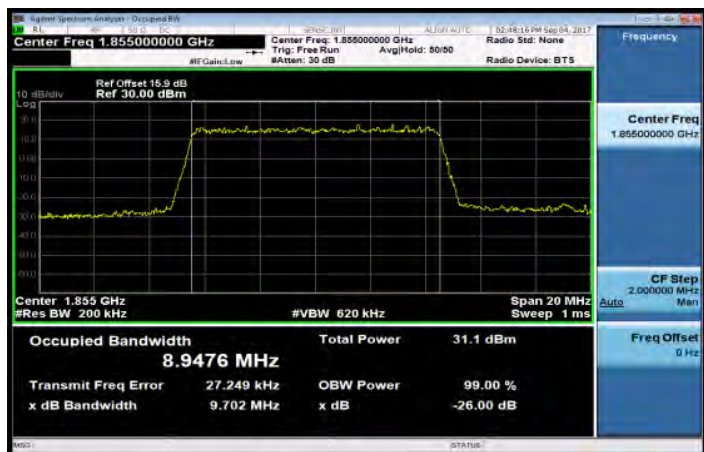
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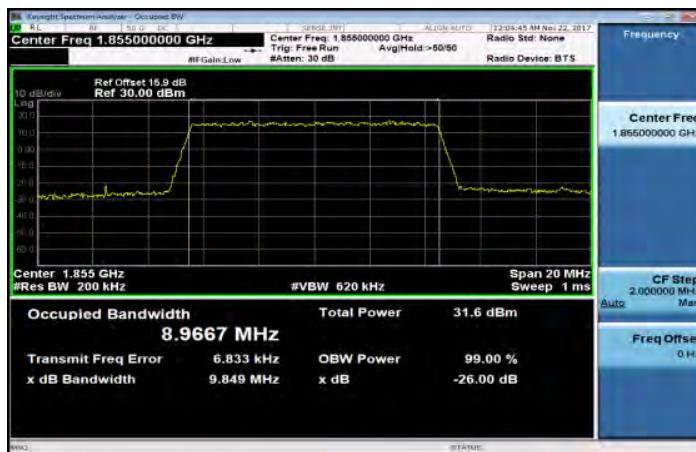
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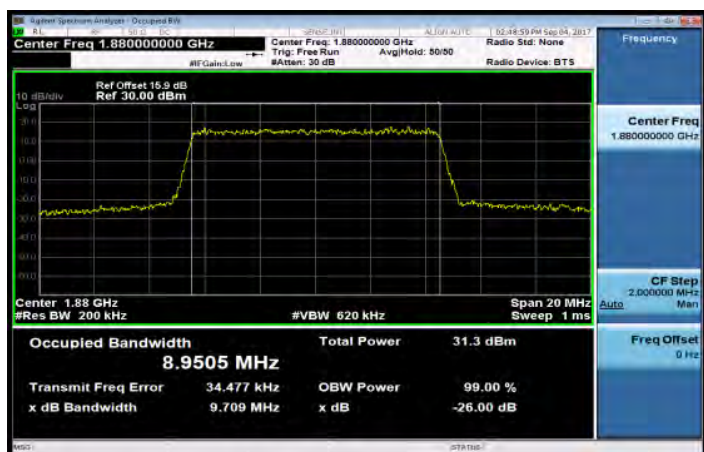
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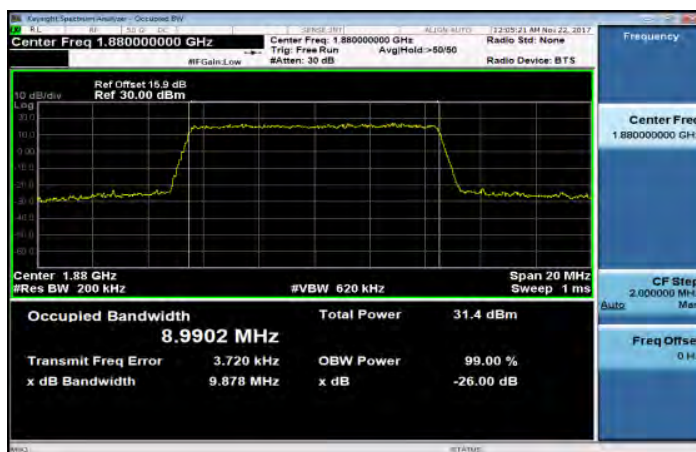
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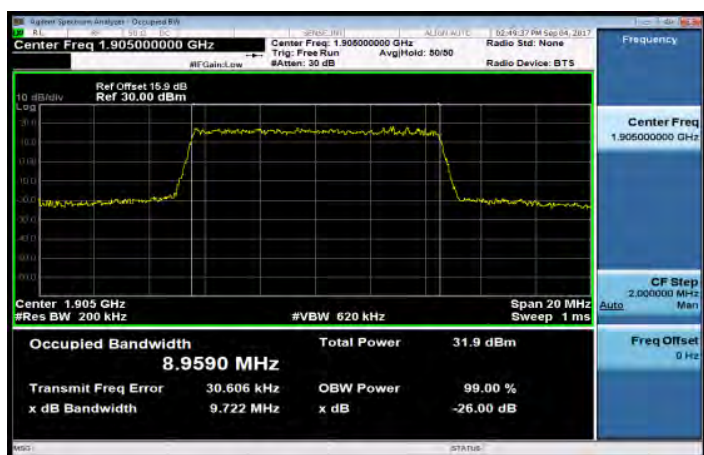
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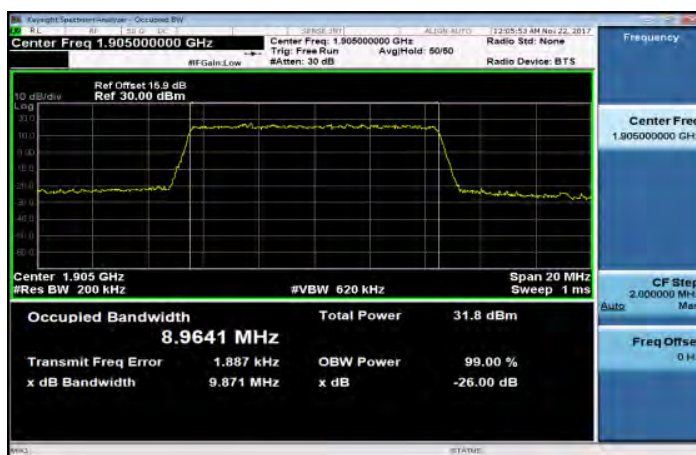
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Band2\_10MHz\_16QAM\_50\_0\_HighCH19150-1905



Band2\_10MHz\_64QAM\_50\_0\_HighCH19150-1905



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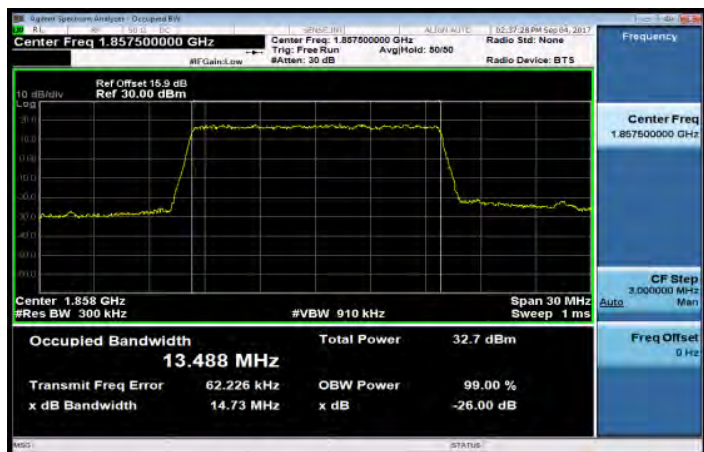
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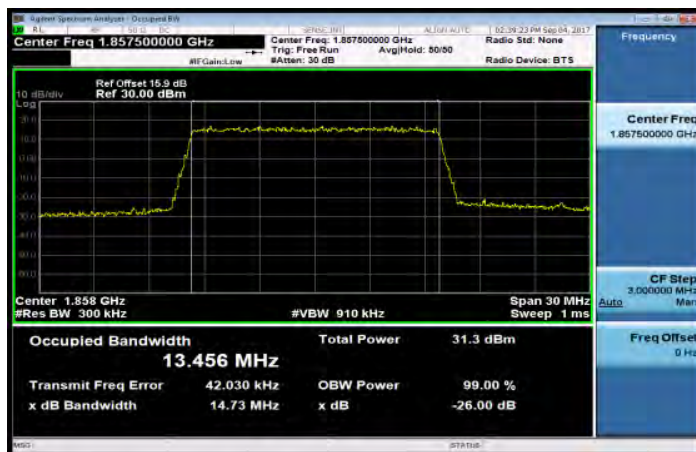
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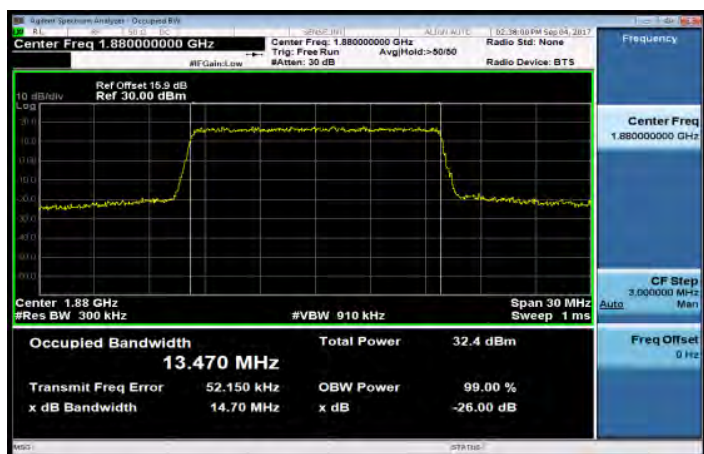
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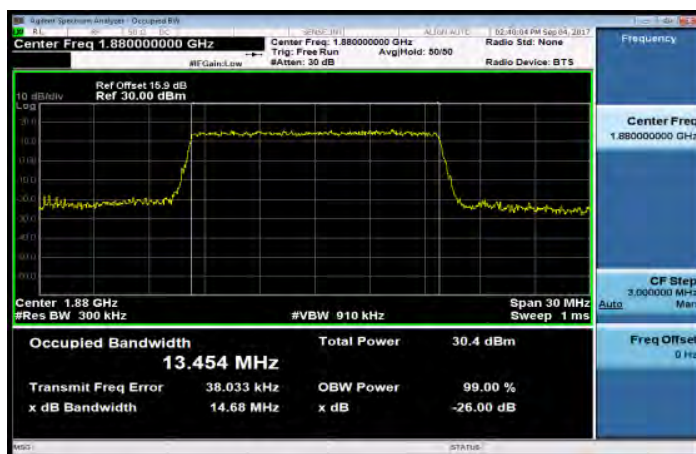
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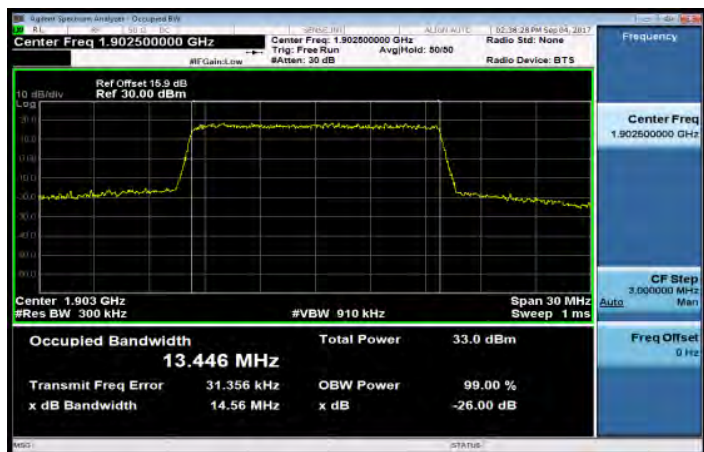
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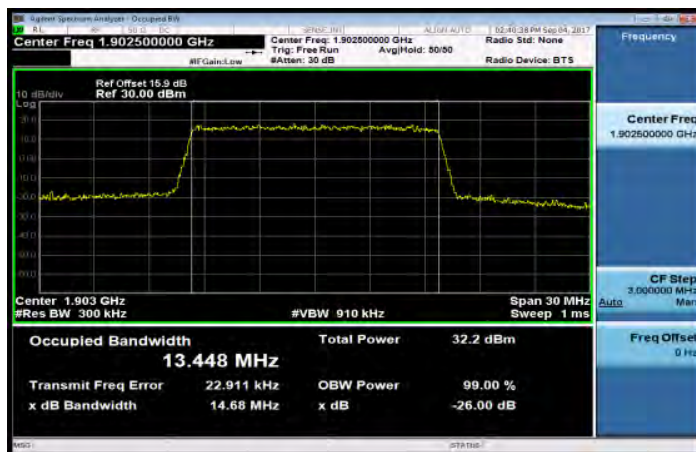
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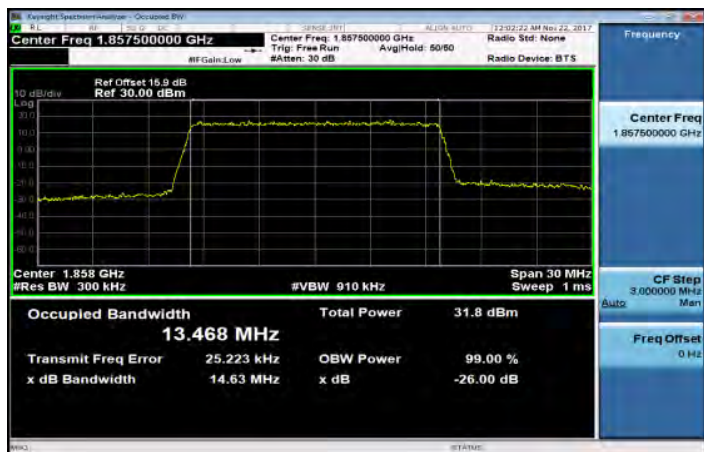
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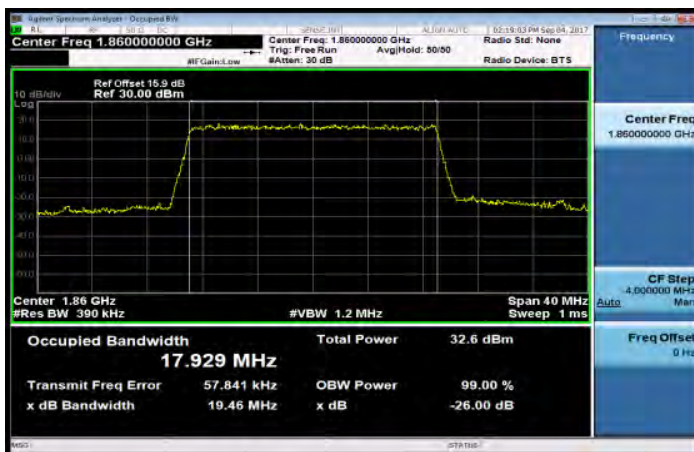
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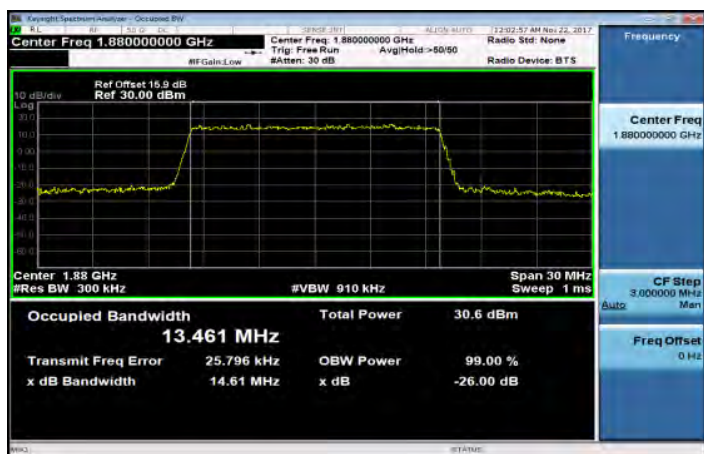
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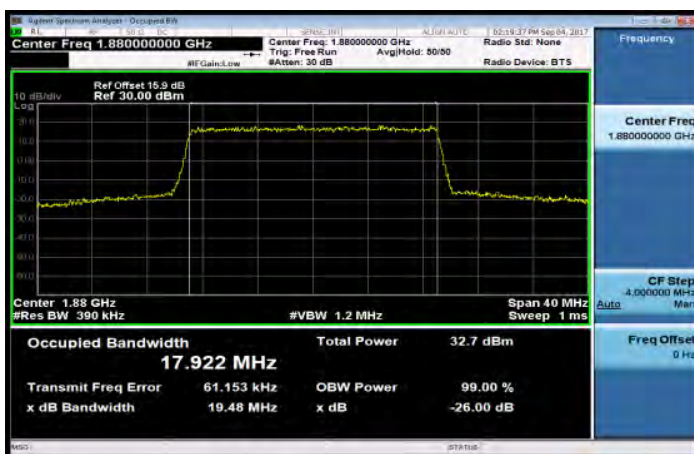
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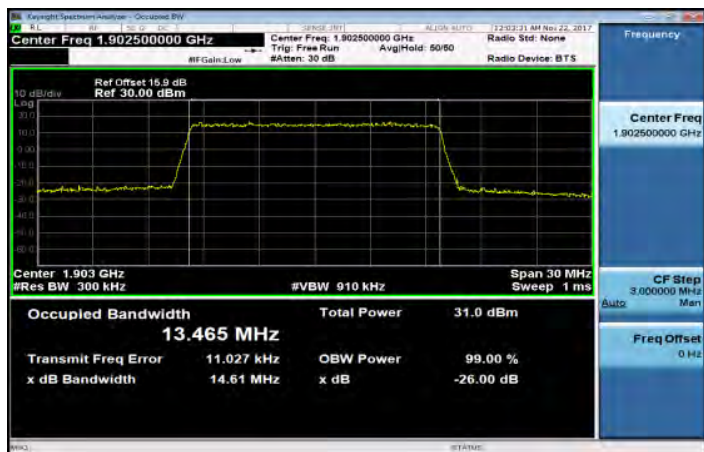
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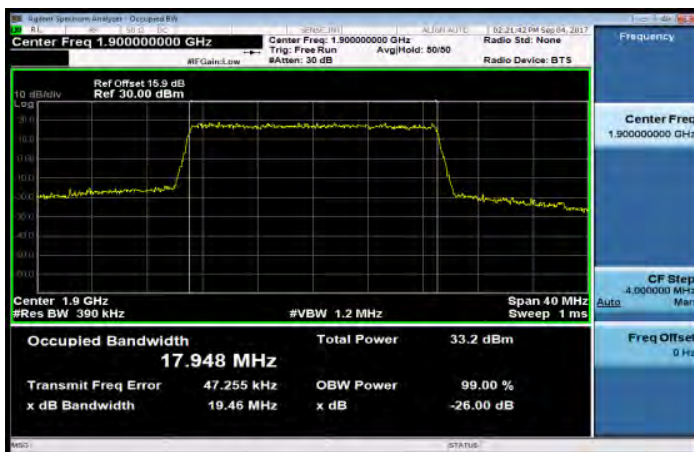
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Band2\_15MHz\_64QAM\_75\_0\_HighCH19125-1902.5



Band2\_20MHz\_QPSK\_100\_0\_HighCH19100-1900



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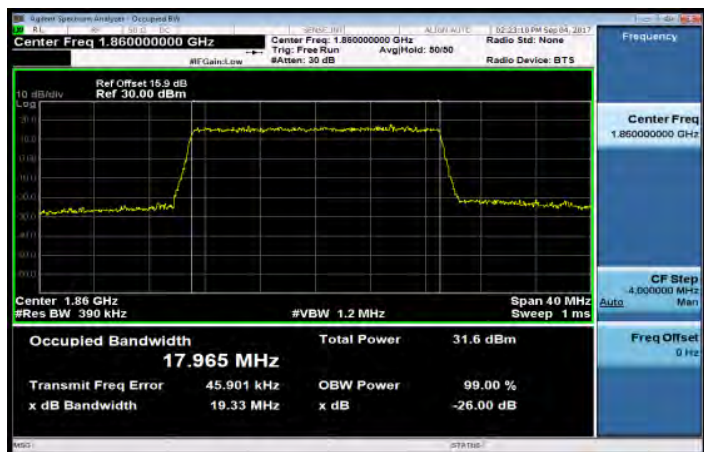
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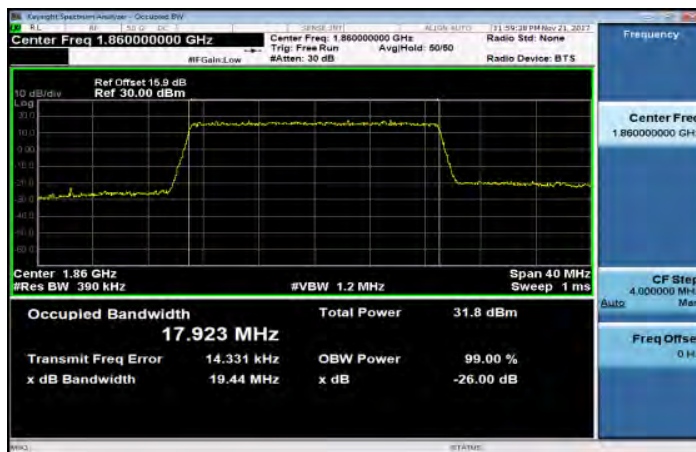
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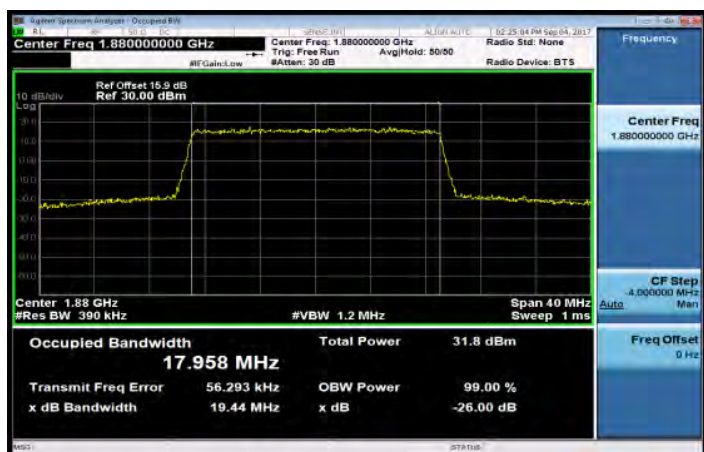
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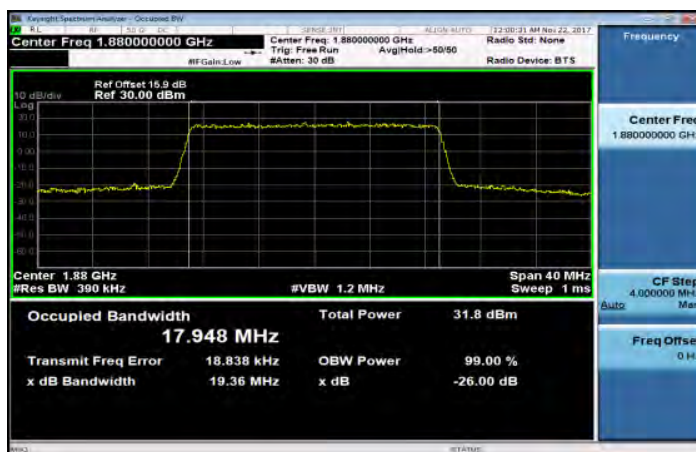
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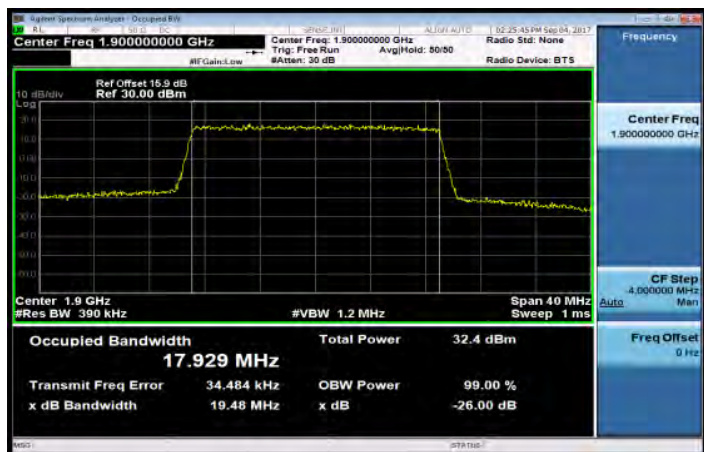
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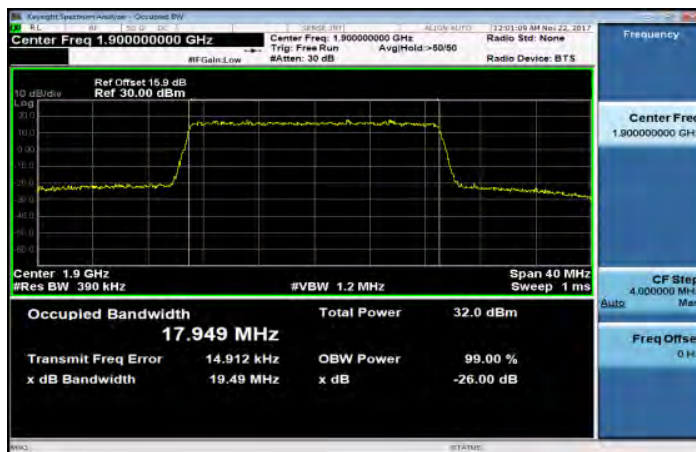
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Band2\_20MHz\_16QAM\_100\_0\_HighCH19100-1900



Band2\_20MHz\_64QAM\_100\_0\_HighCH19100-1900



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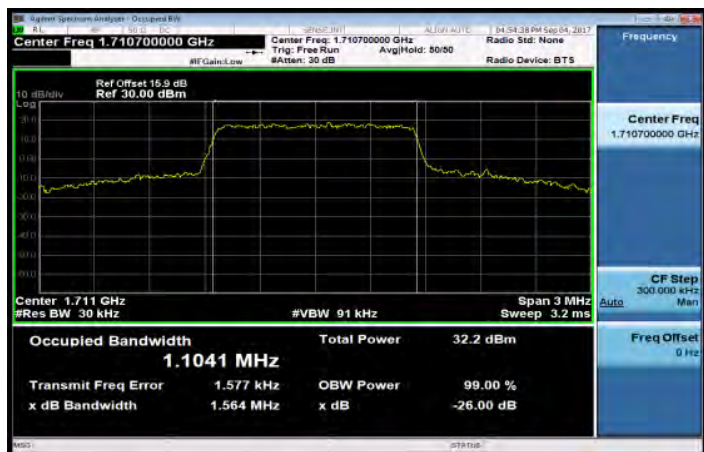
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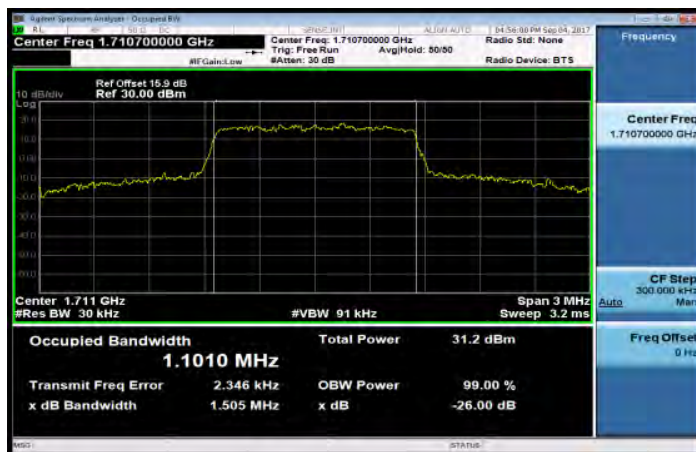
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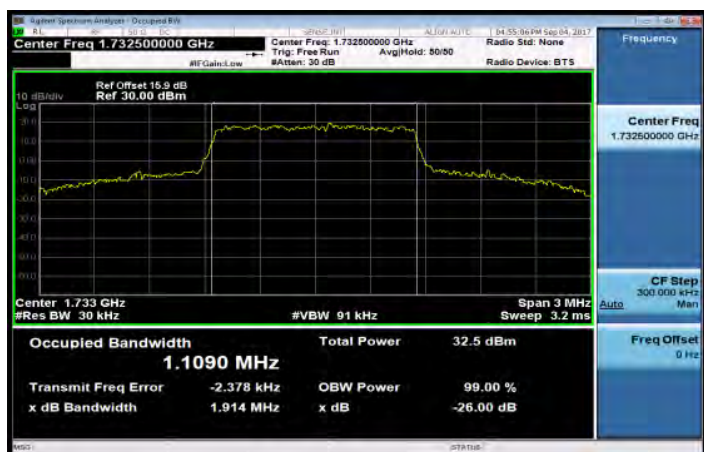
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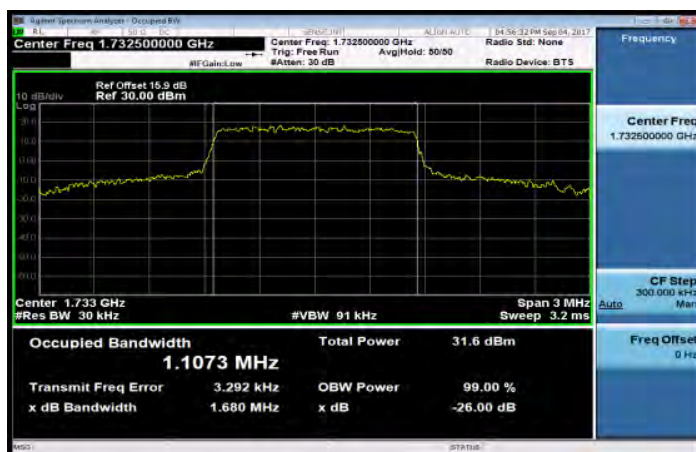
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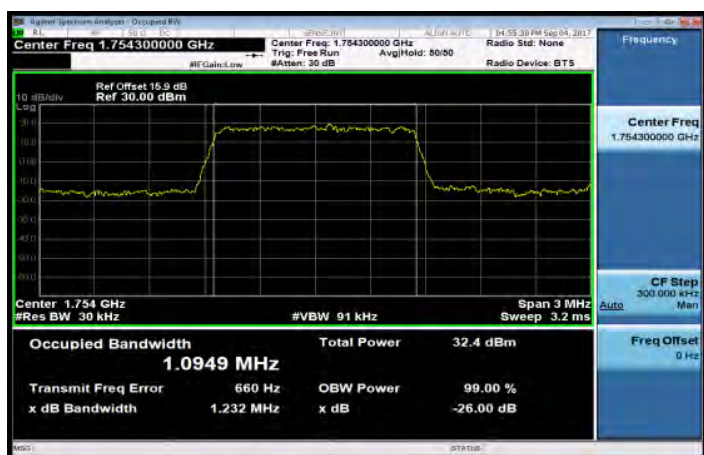
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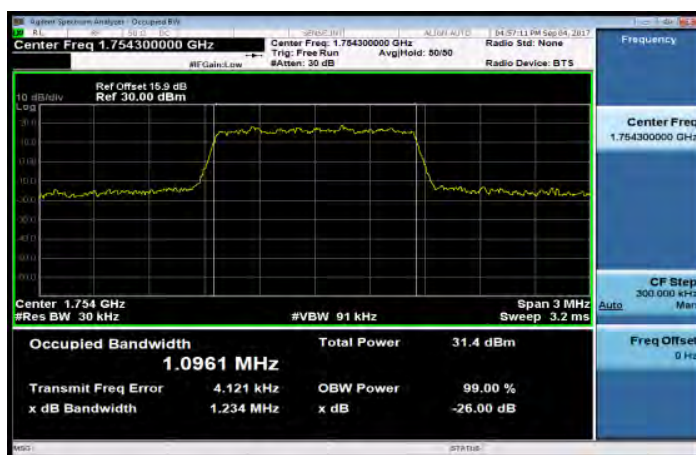
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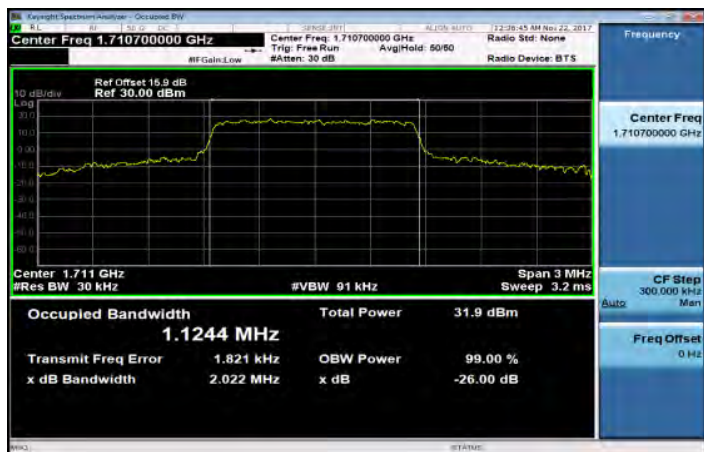
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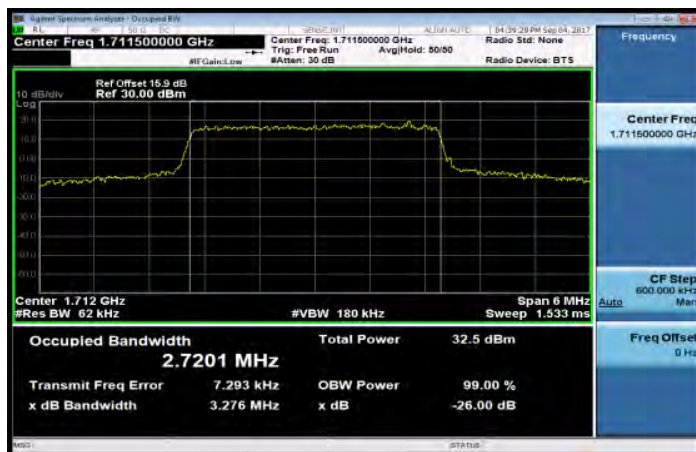
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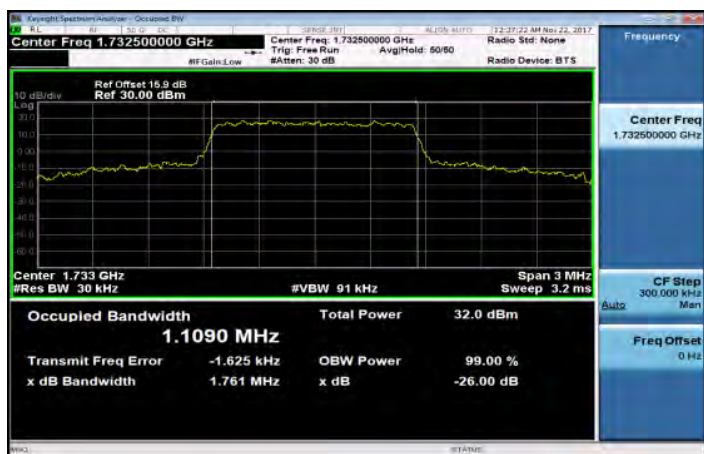
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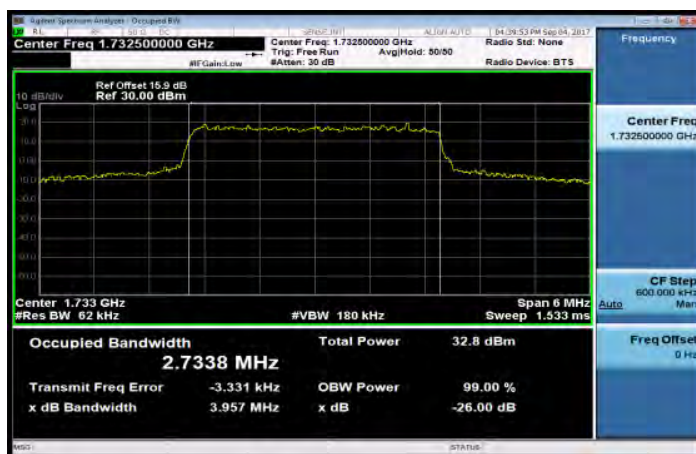
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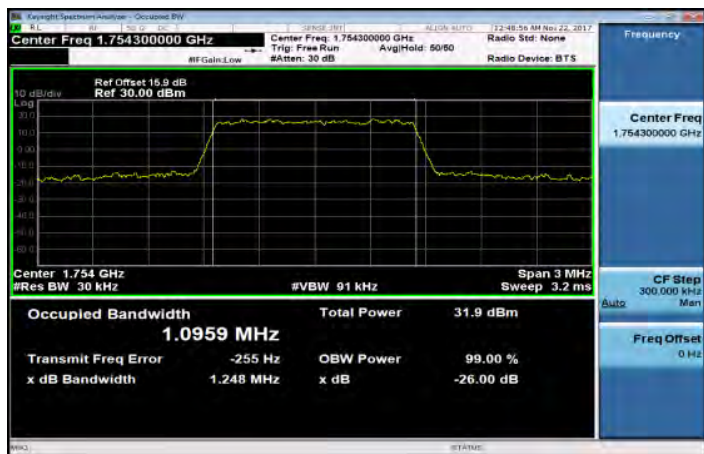
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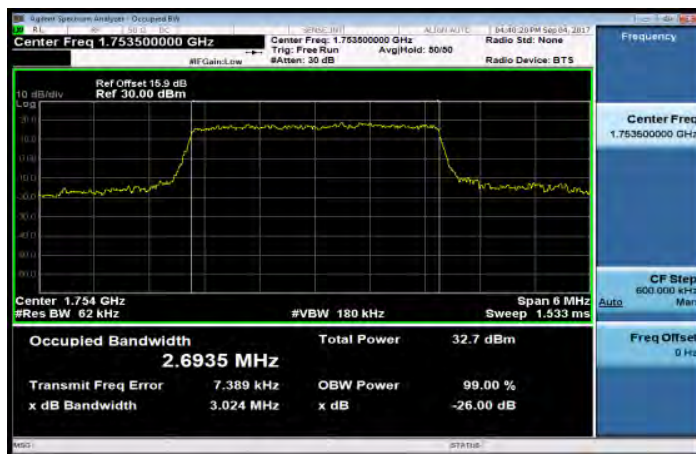
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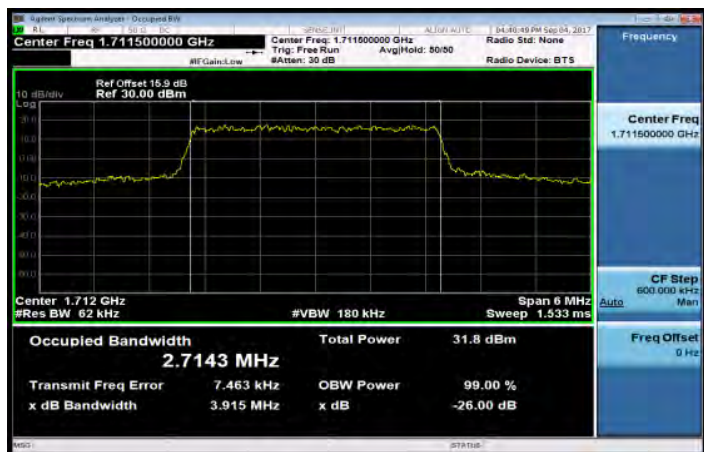
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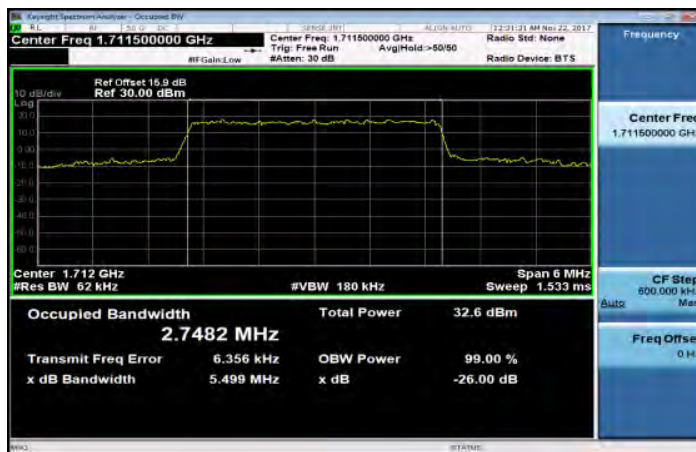
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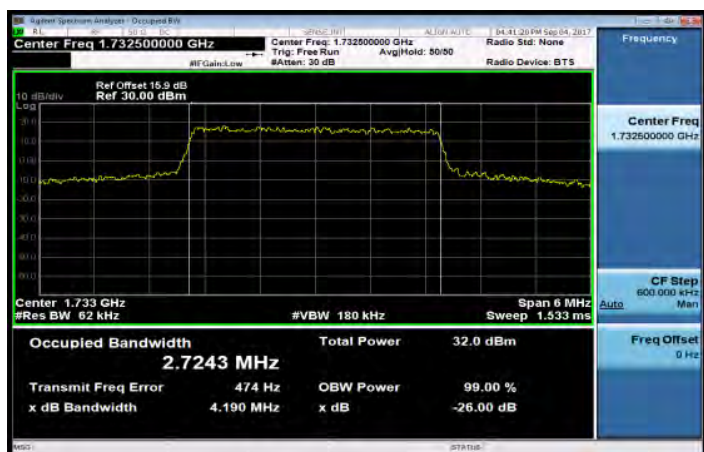
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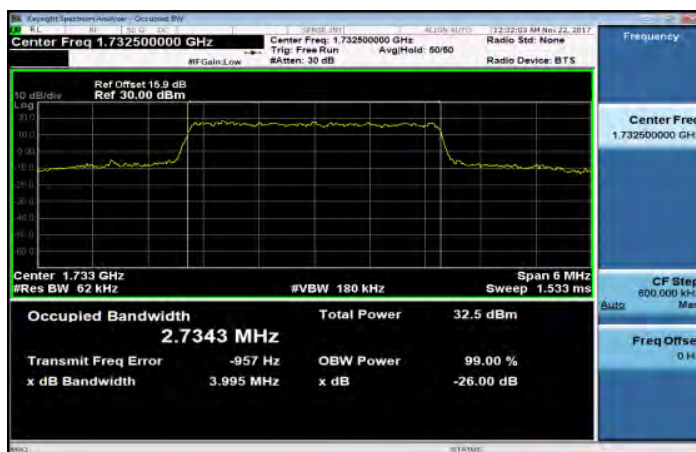
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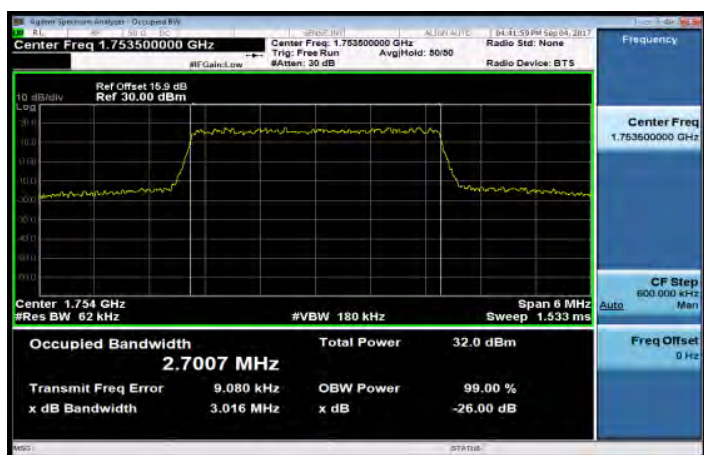
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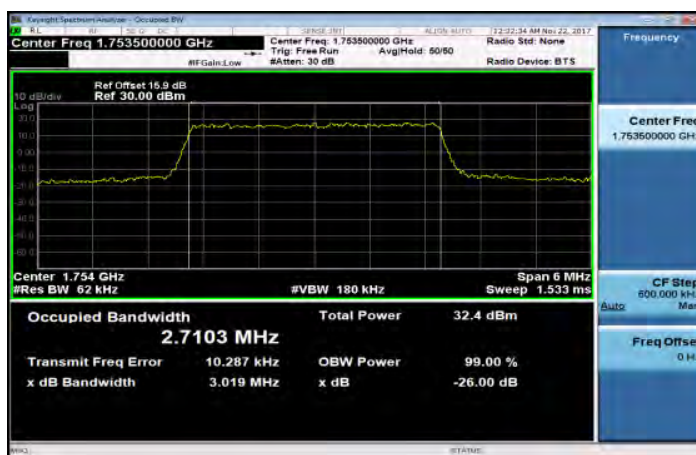
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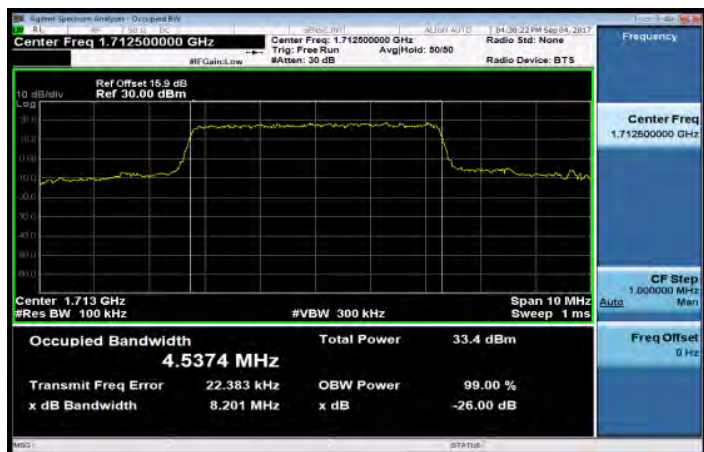
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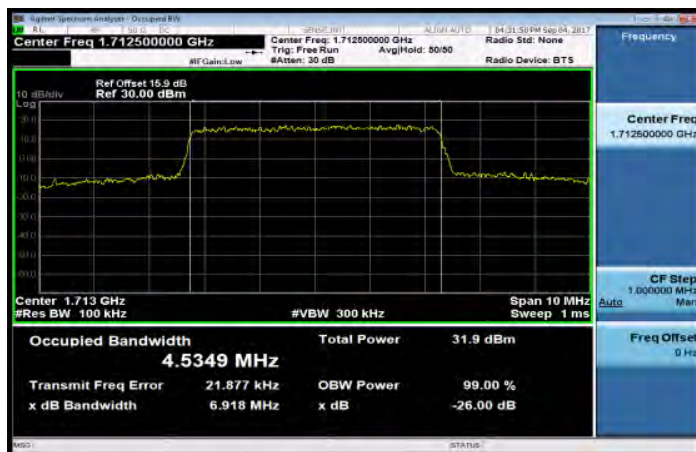
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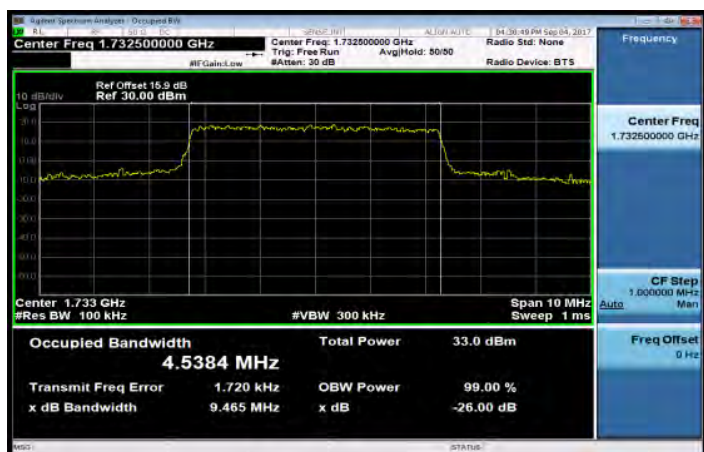
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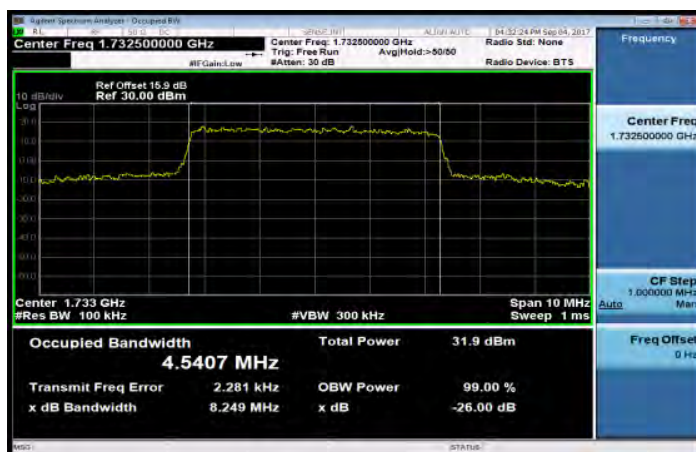
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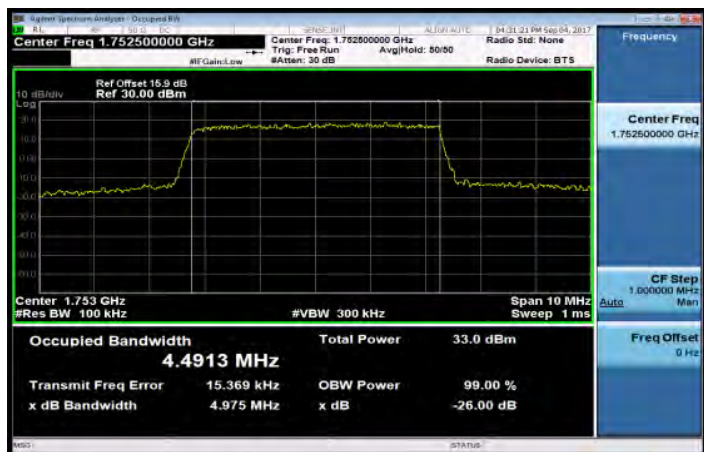
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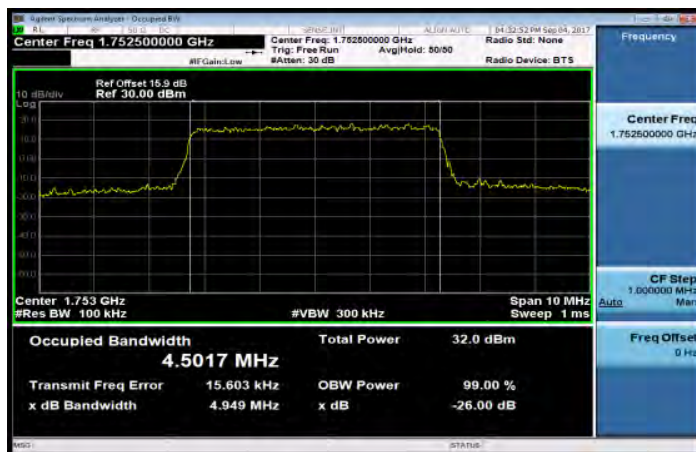
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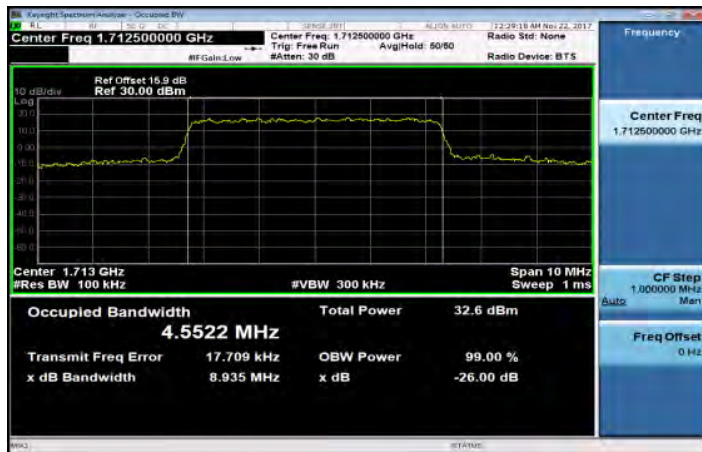
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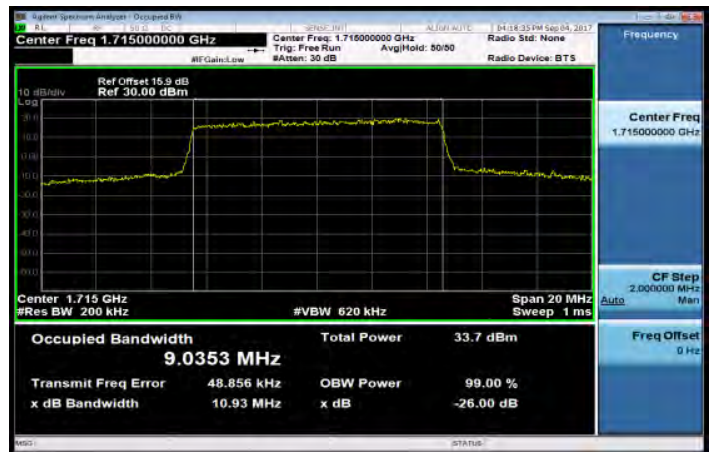
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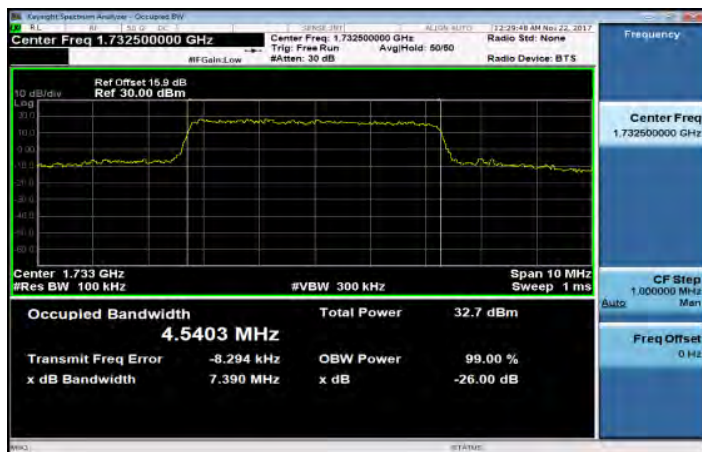
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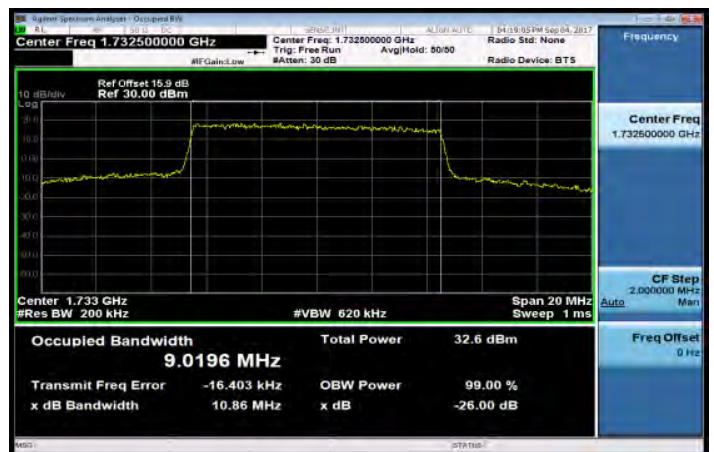
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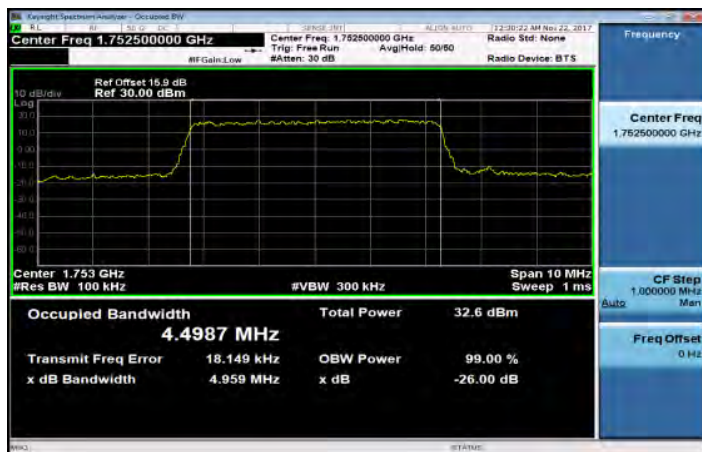
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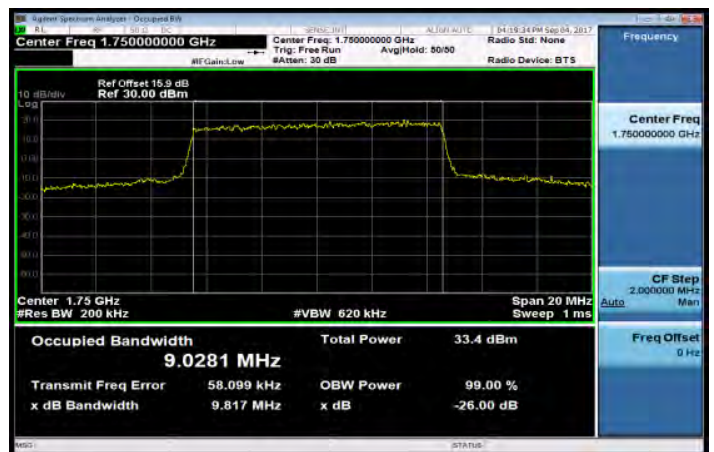
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Band4\_10MHz\_QPSK\_50\_0\_HighCH20350-1750



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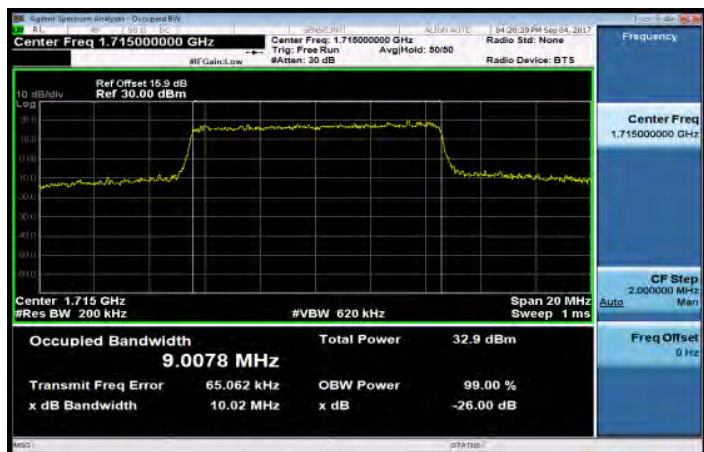
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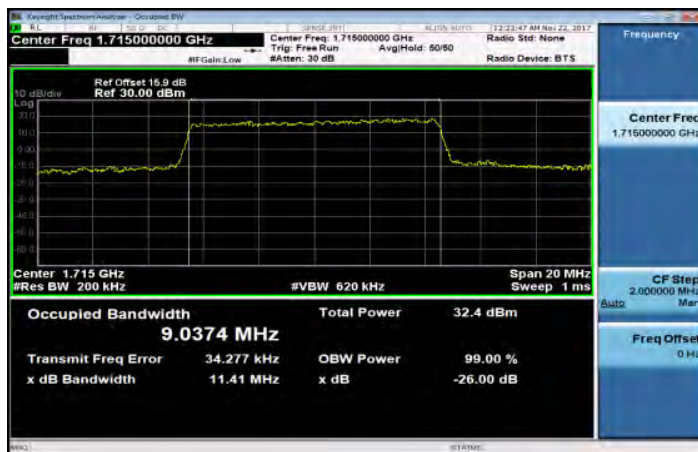
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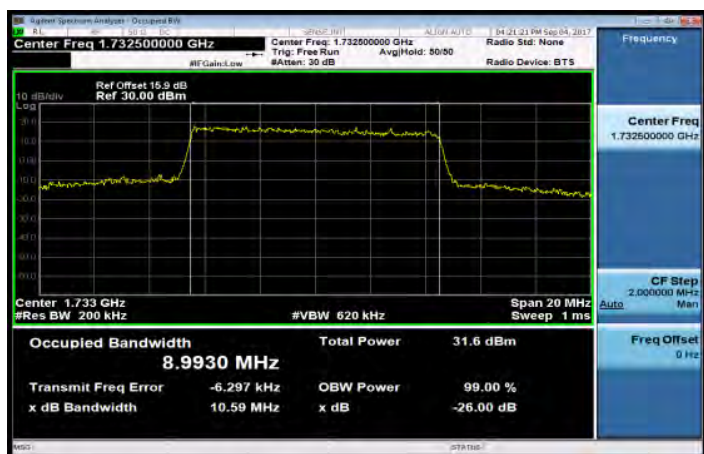
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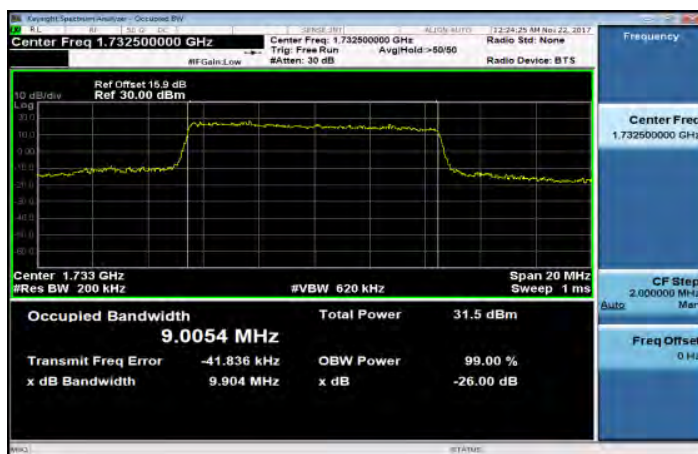
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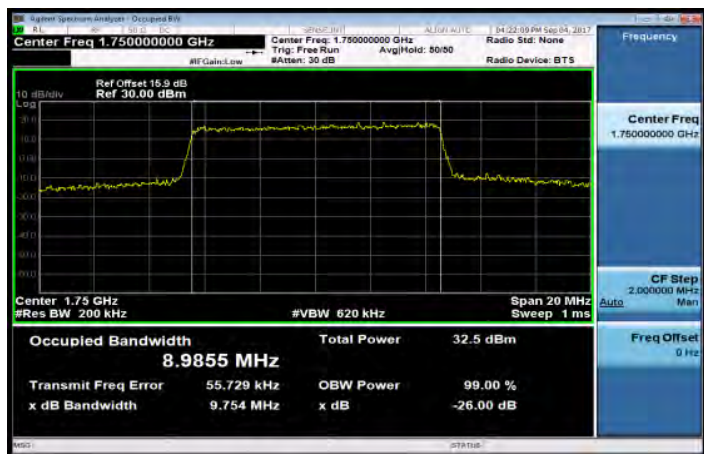
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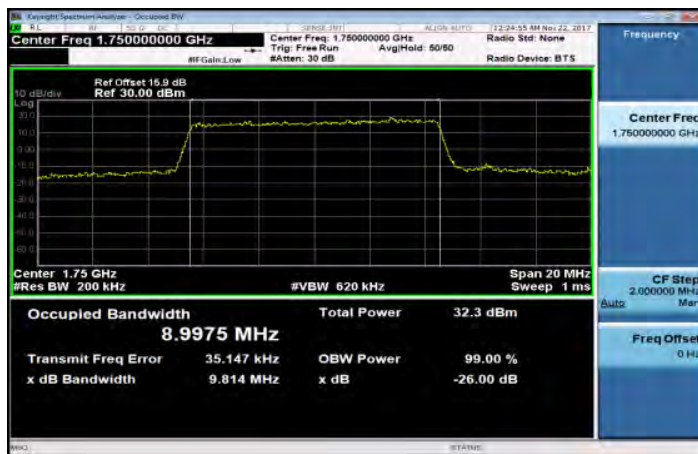
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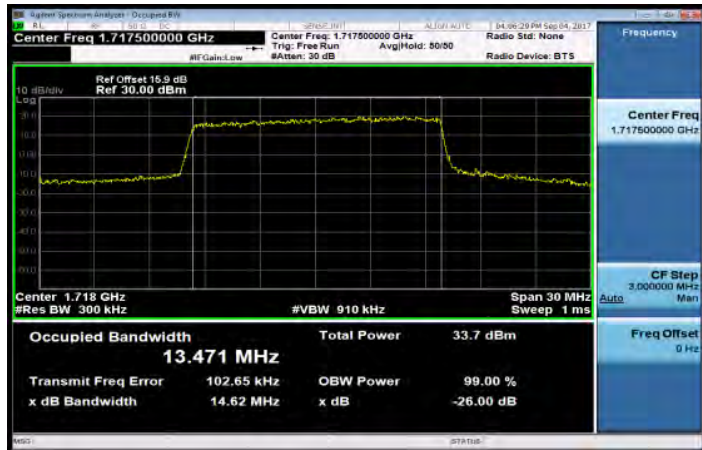
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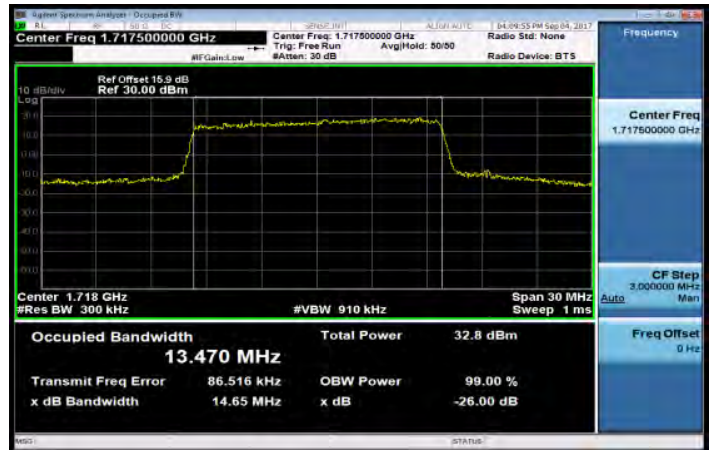
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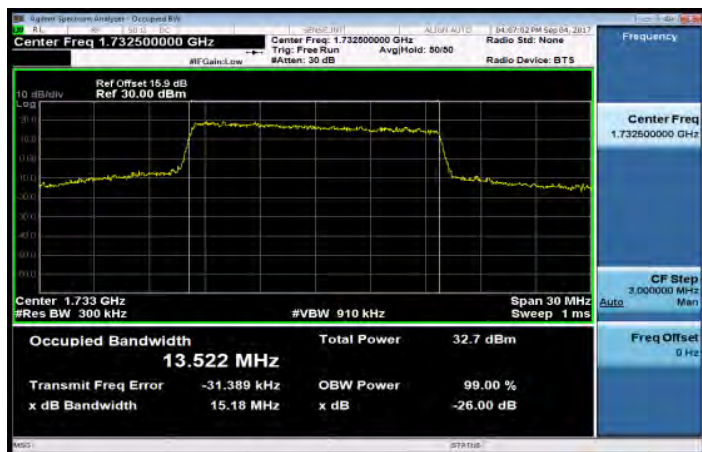
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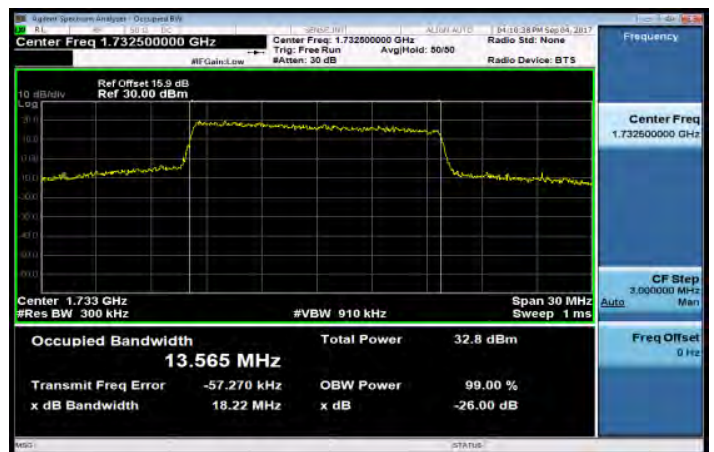
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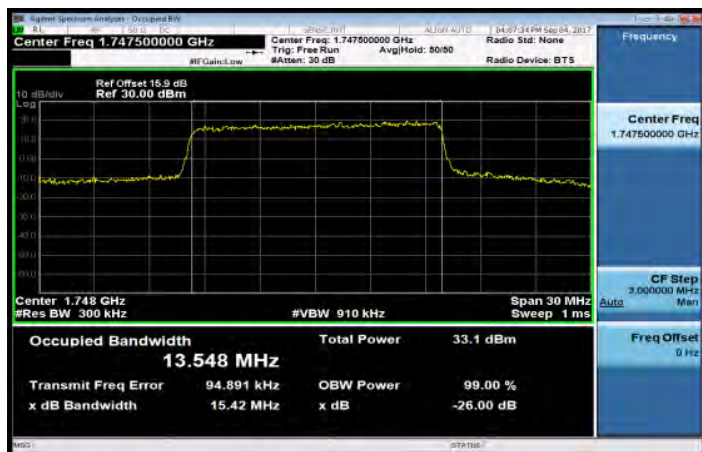
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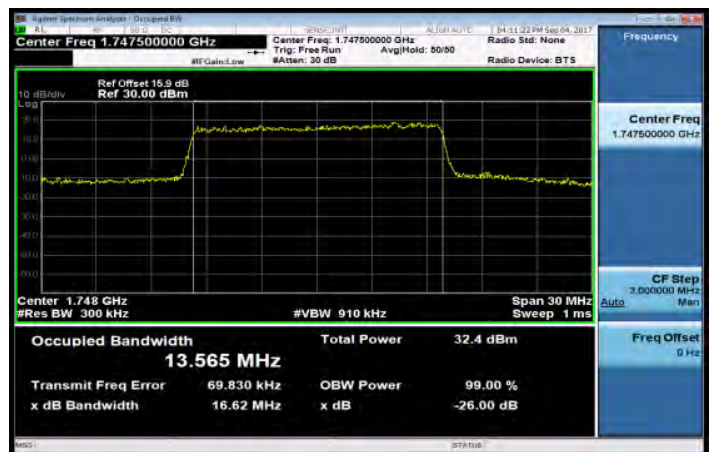
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Band4\_15MHz\_QPSK\_75\_0\_HighCH20325-1747.5



Band4\_15MHz\_16QAM\_75\_0\_HighCH20325-1747.5



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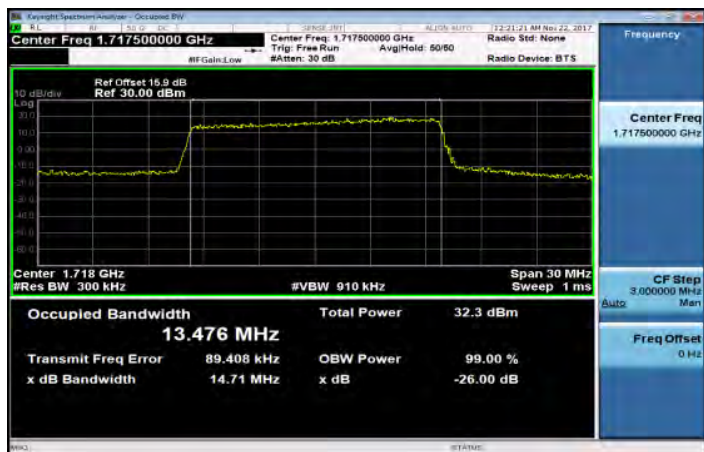
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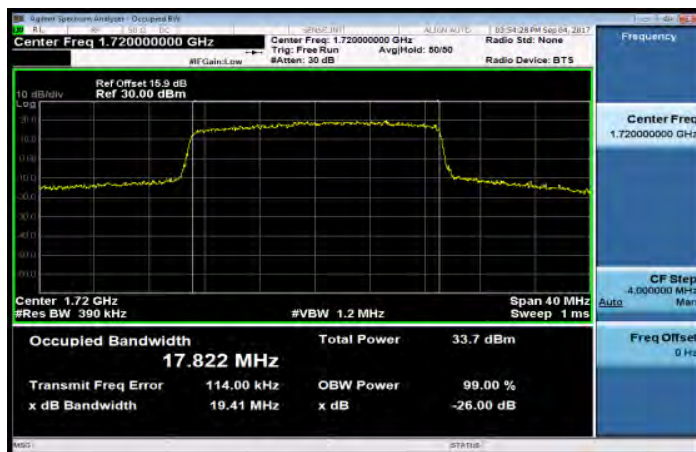
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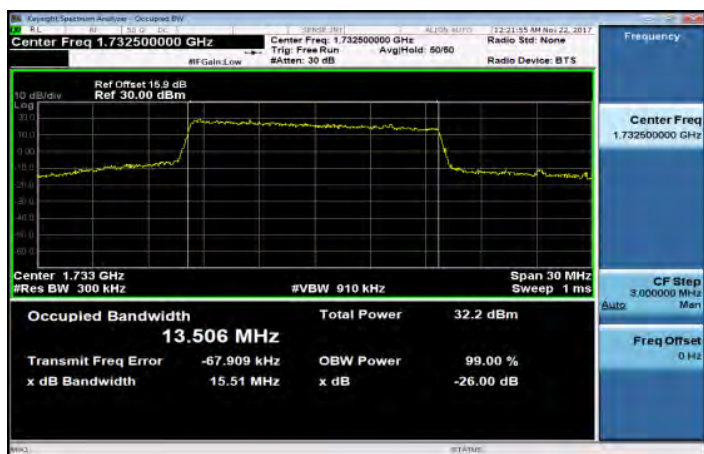
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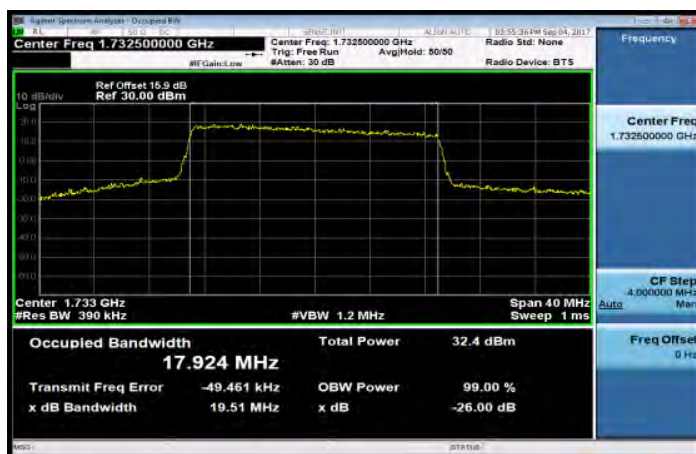
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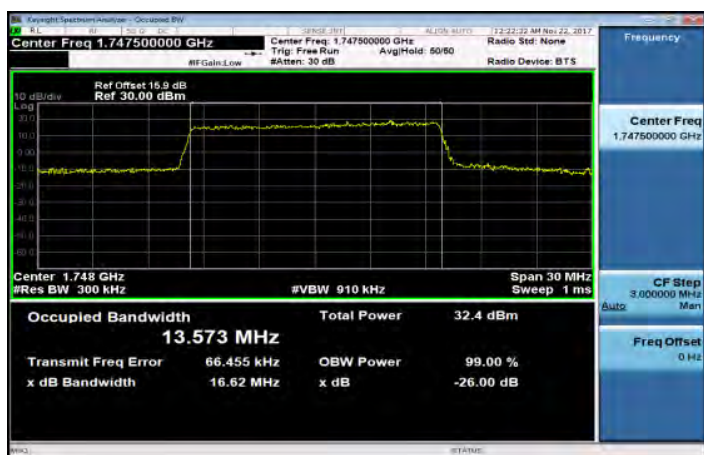
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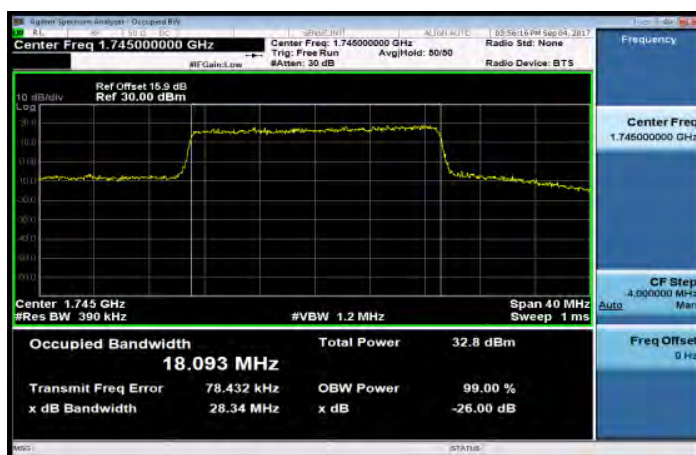
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Band4\_15MHz\_64QAM\_75\_0\_HighCH20325-1747.5



Band4\_20MHz\_QPSK\_100\_0\_HighCH20300-1745



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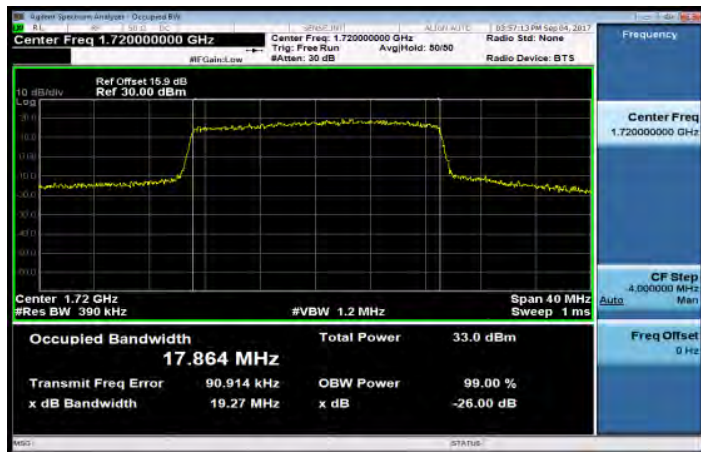
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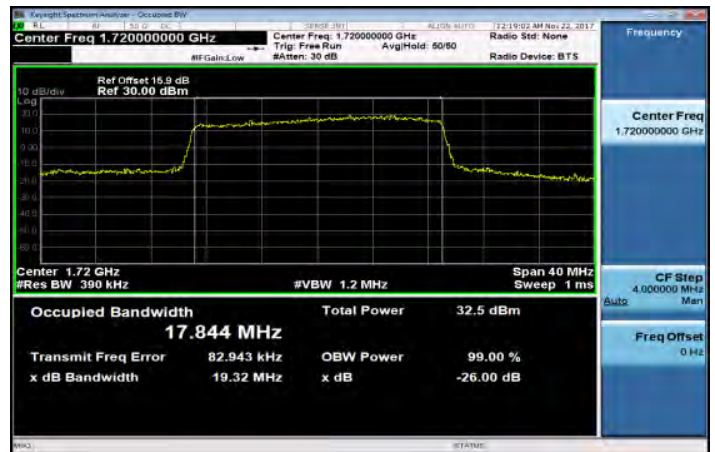
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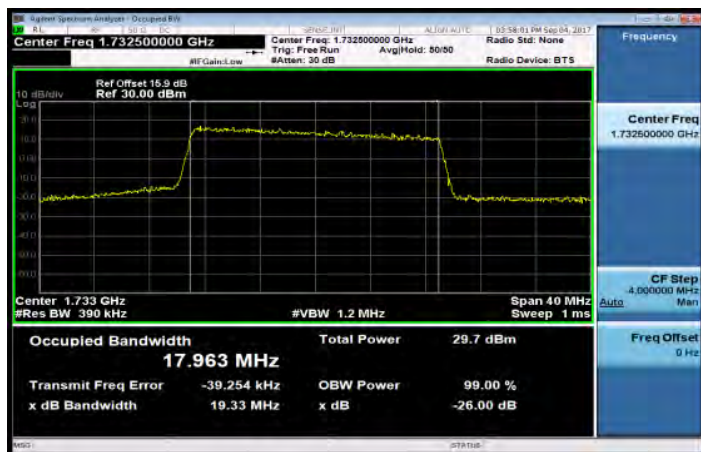
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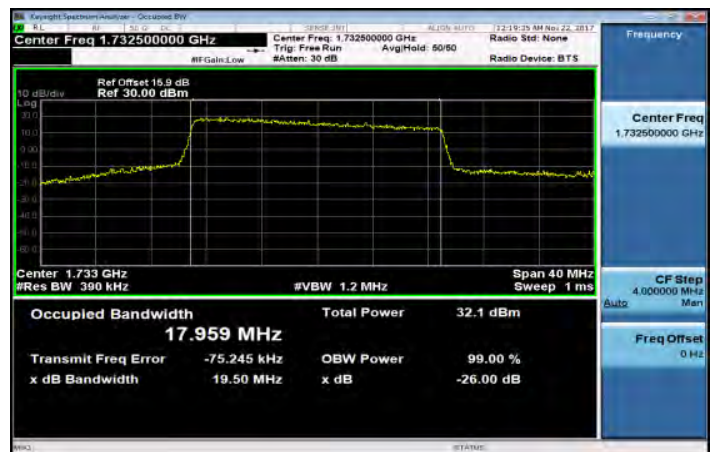
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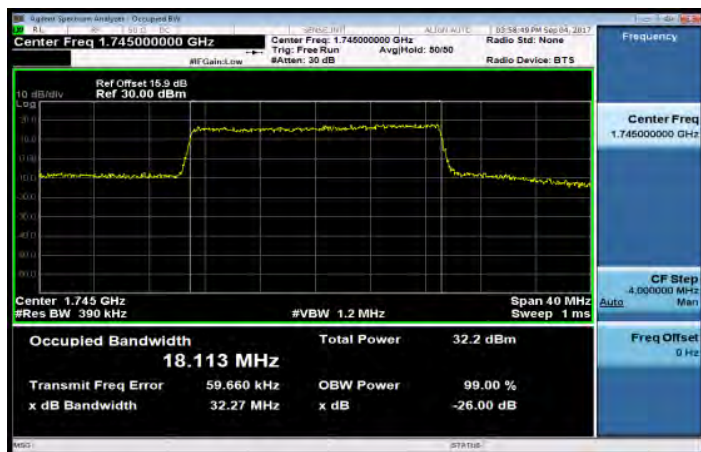
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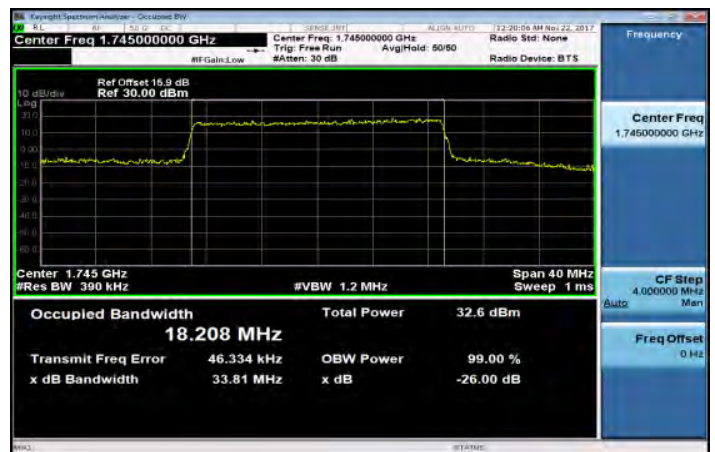
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Band4\_20MHz\_16QAM\_100\_0\_HighCH20300-1745



Band4\_20MHz\_64QAM\_100\_0\_HighCH20300-1745



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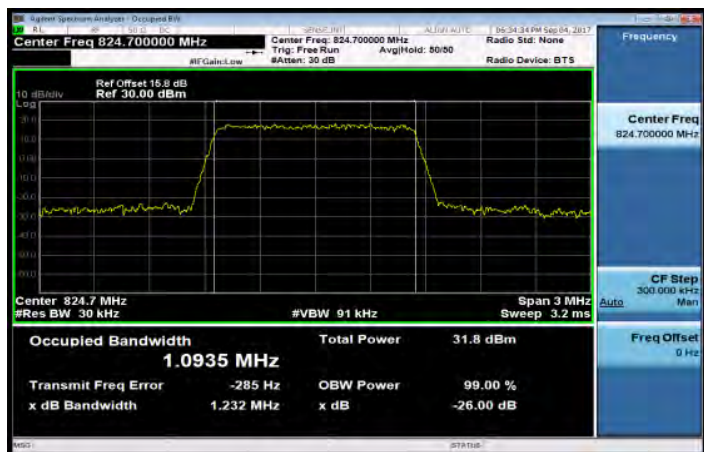
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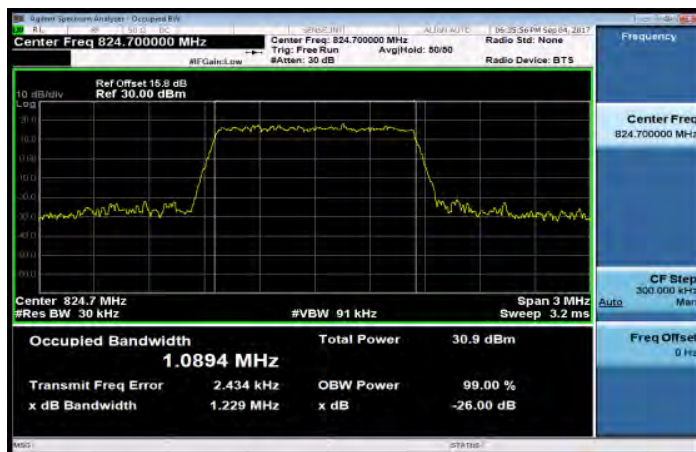
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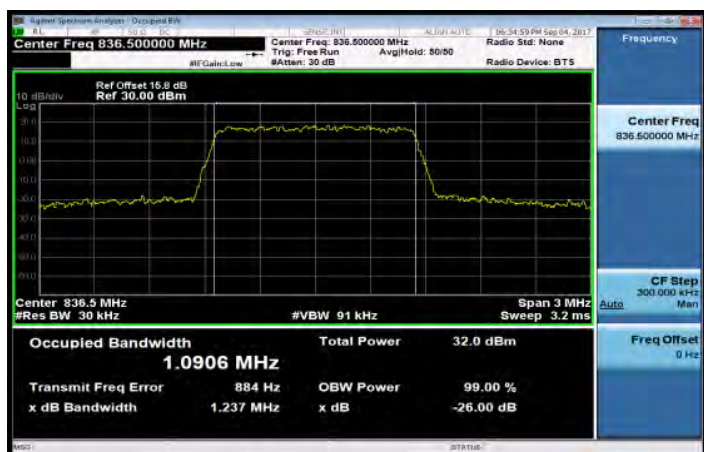
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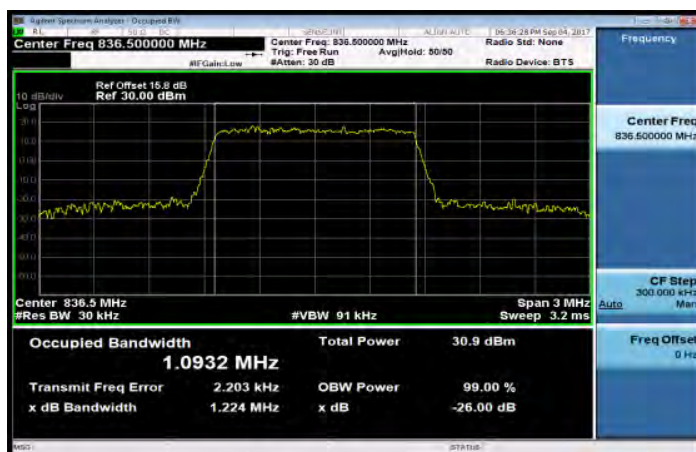
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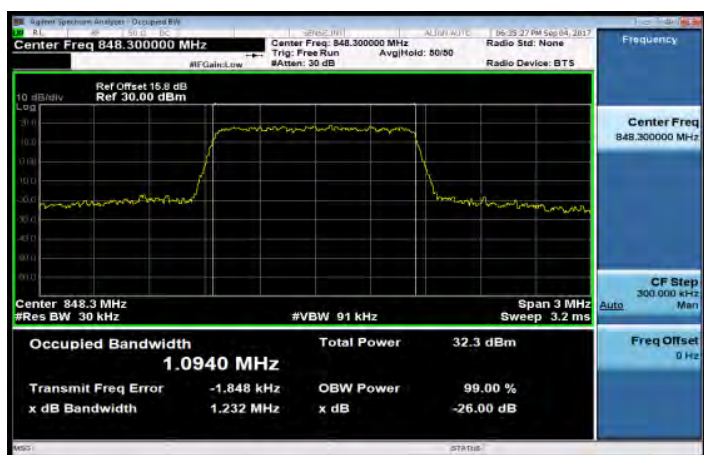
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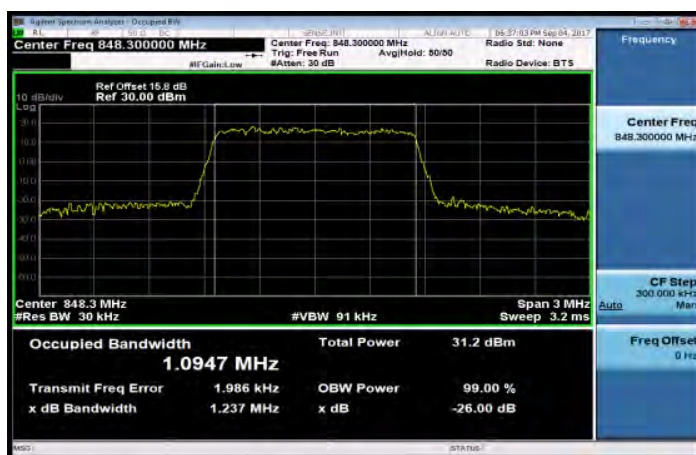
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Band5\_1\_4MHz\_QPSK\_6\_0\_HighCH20643-848.3



Band5\_1\_4MHz\_16QAM\_6\_0\_HighCH20643-848.3



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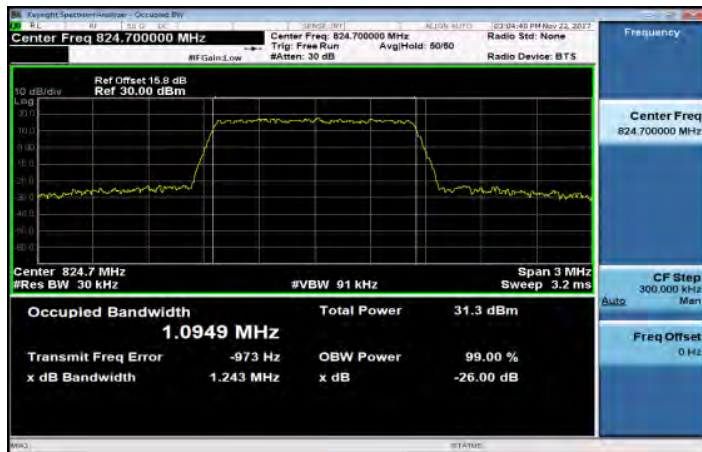
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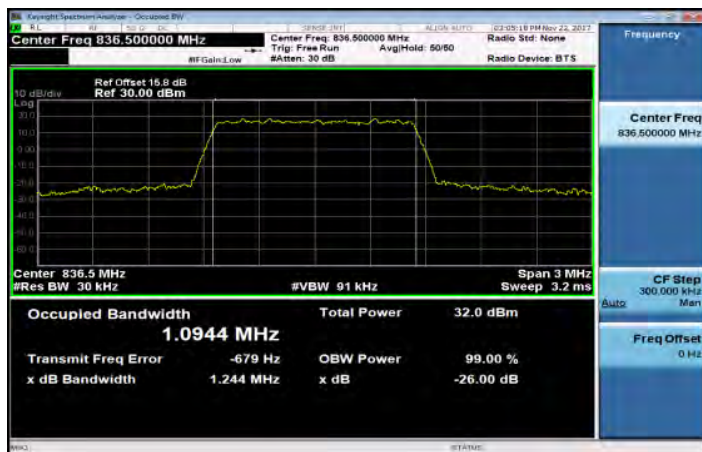
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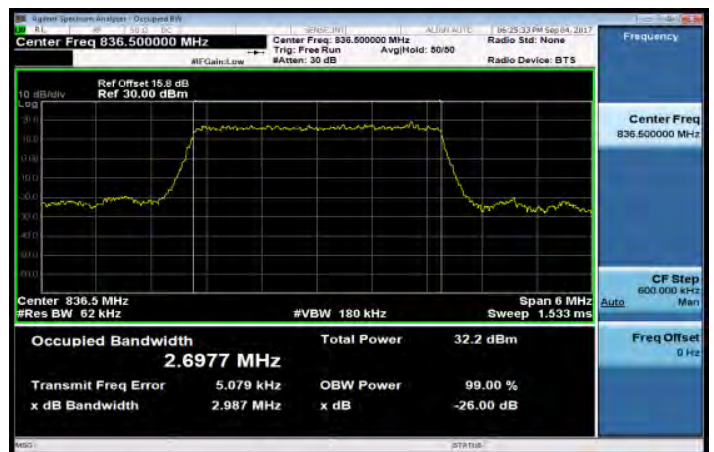
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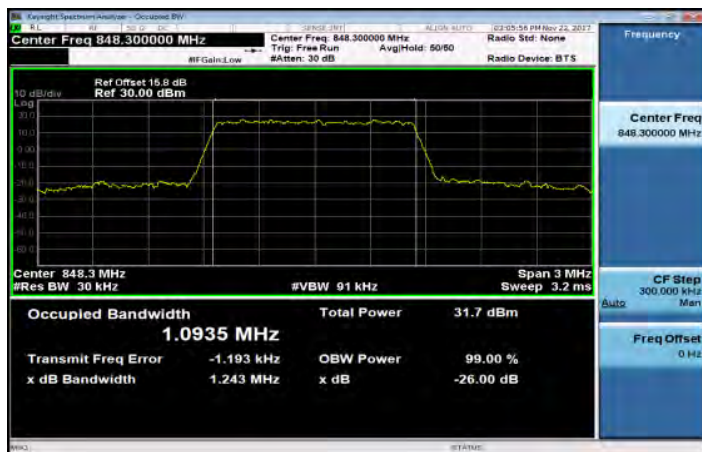
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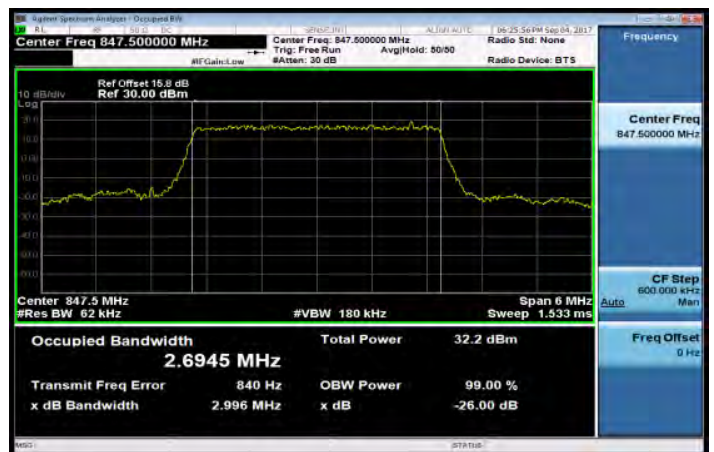
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Band5\_1\_4MHz\_64QAM\_6\_0\_HighCH20643-848.3



Band5\_3MHz\_QPSK\_15\_0\_HighCH20635-847.5



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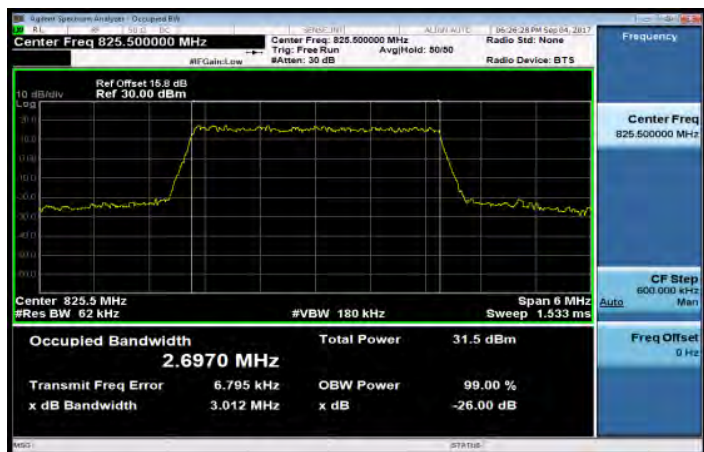
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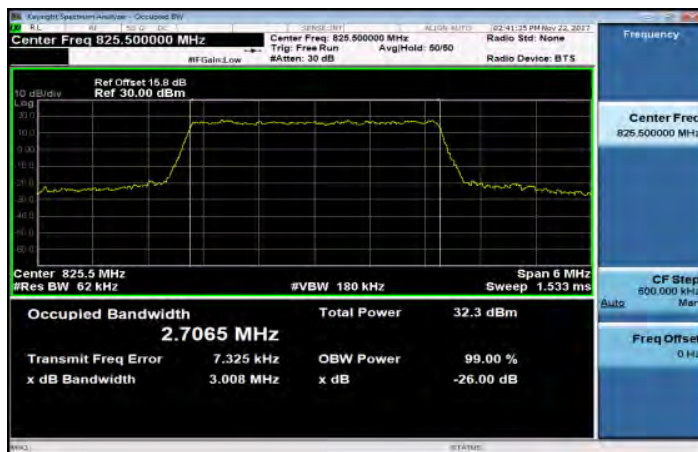
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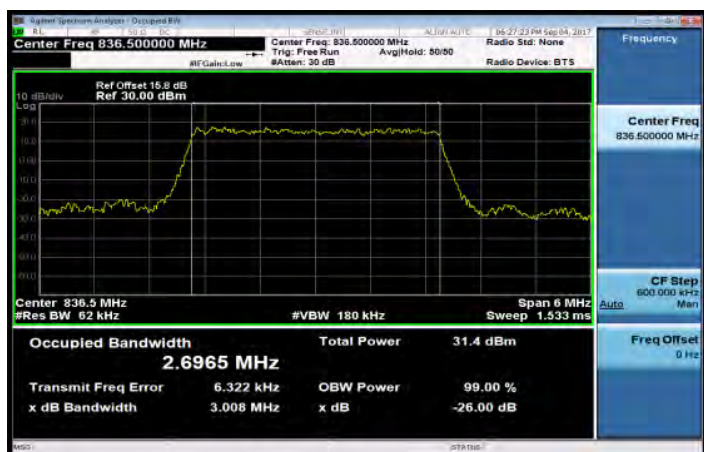
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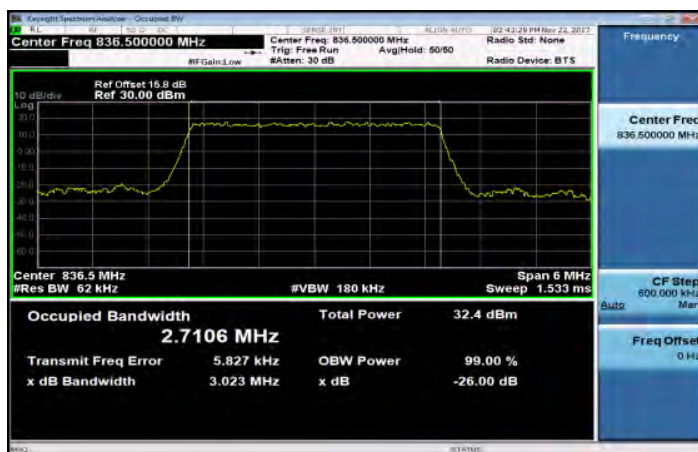
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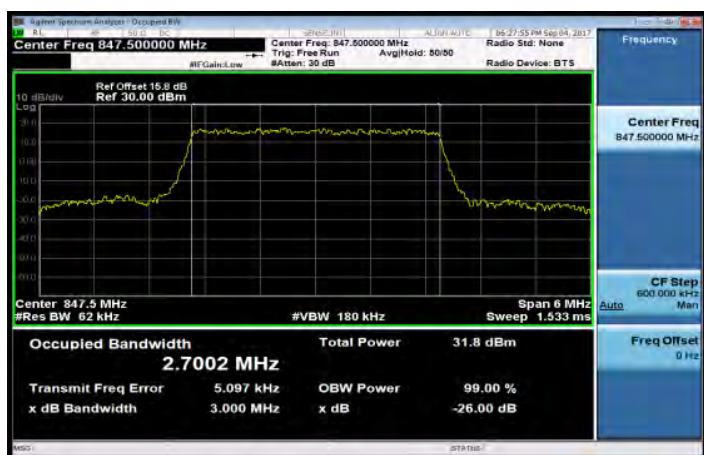
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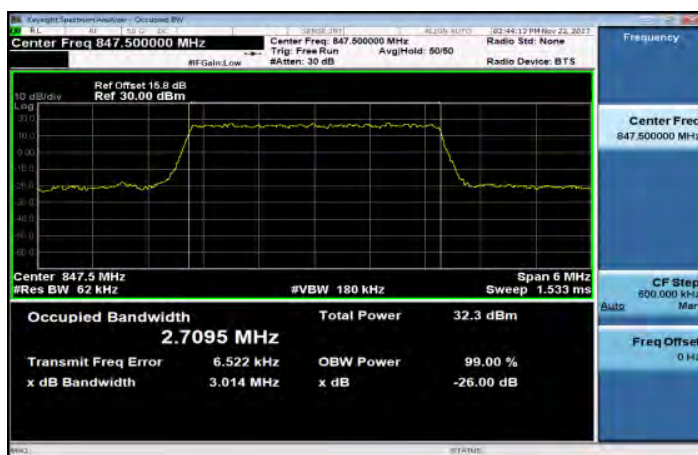
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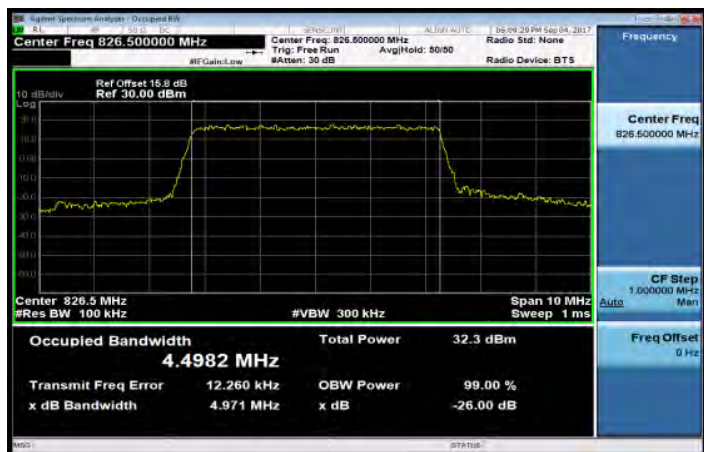
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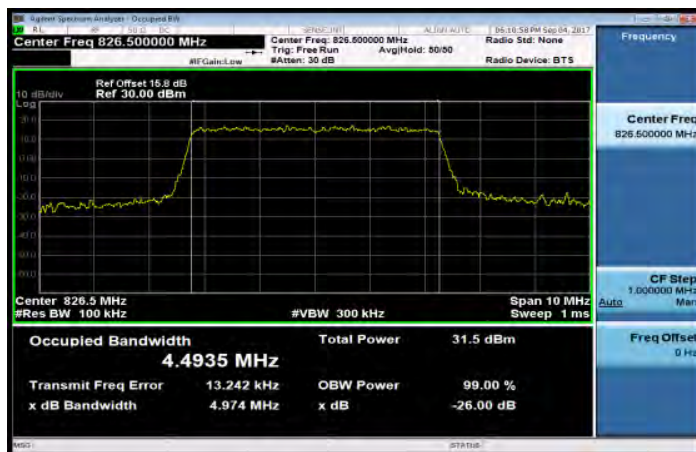
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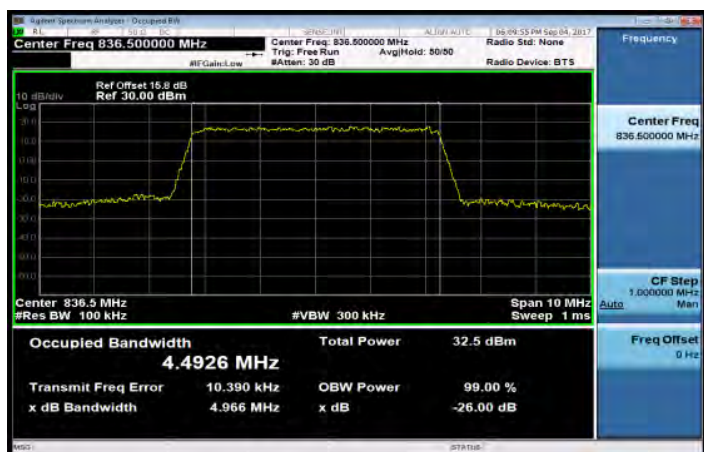
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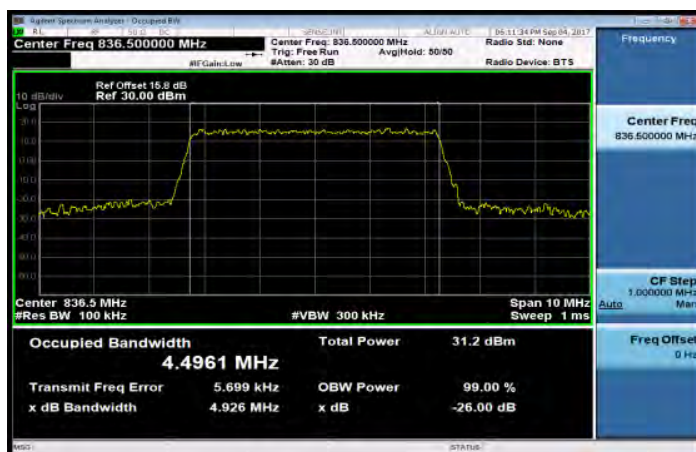
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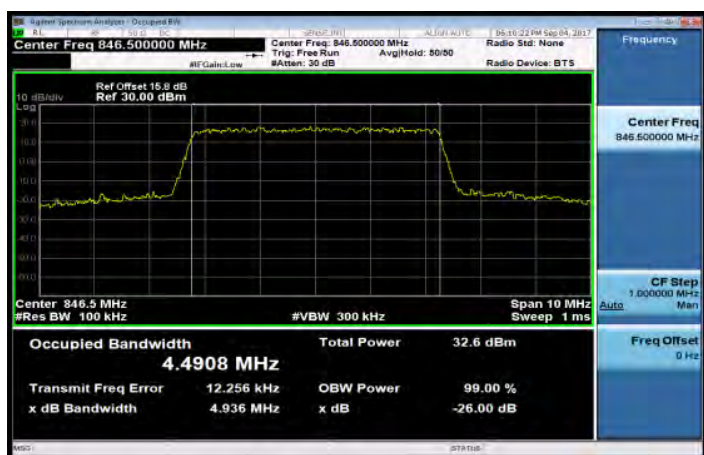
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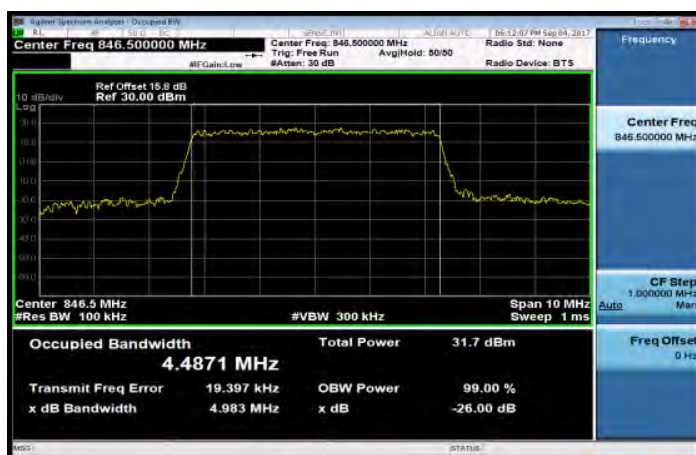
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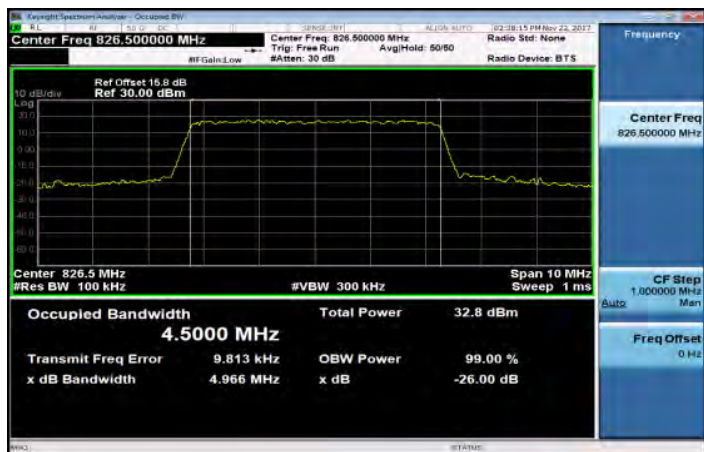
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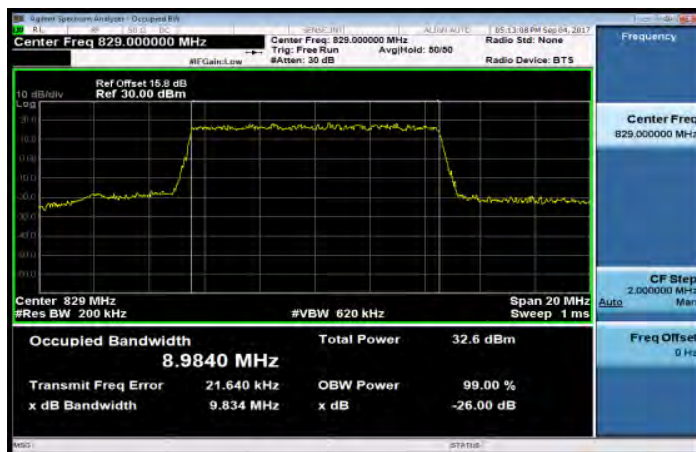
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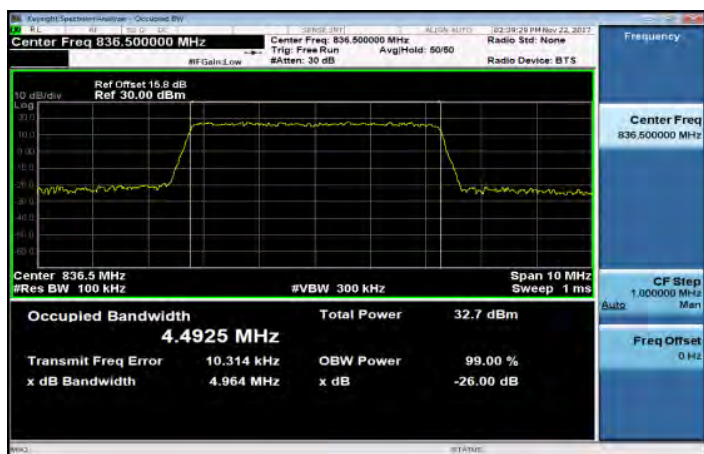
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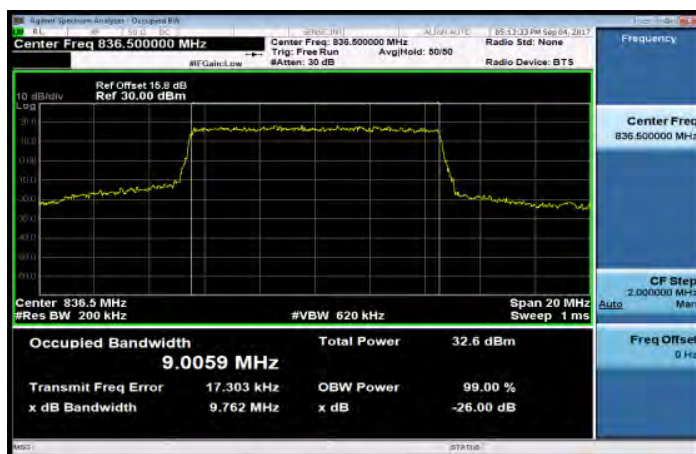
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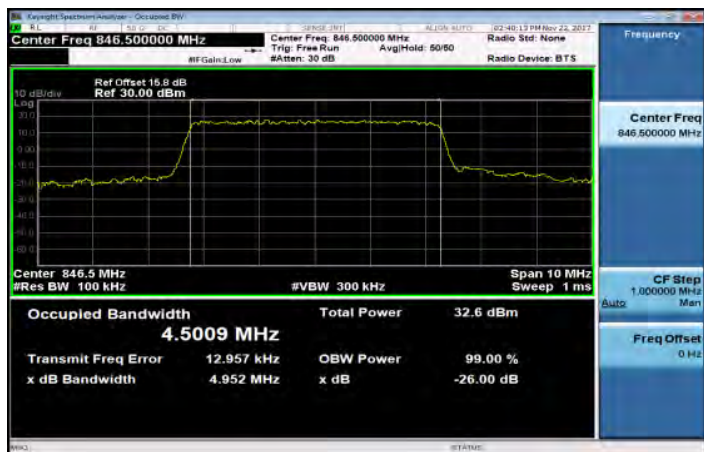
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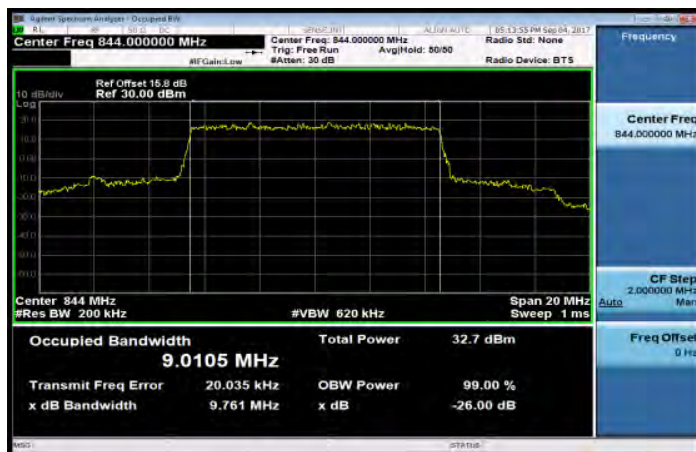
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Band5\_5MHz\_64QAM\_25\_0\_HighCH20625-846.5



Band5\_10MHz\_QPSK\_50\_0\_HighCH20600-844



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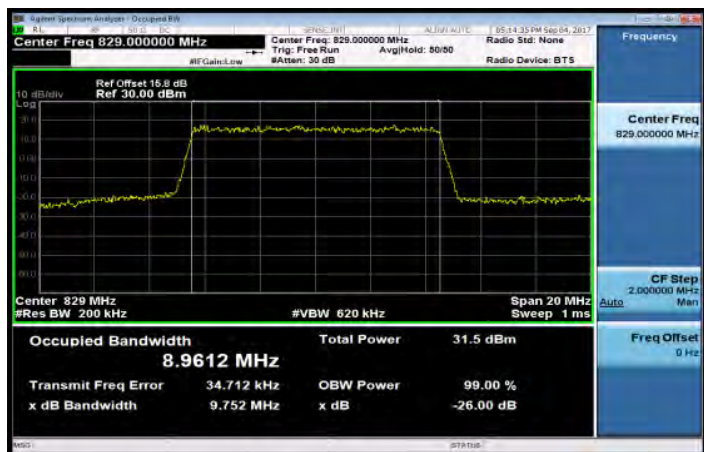
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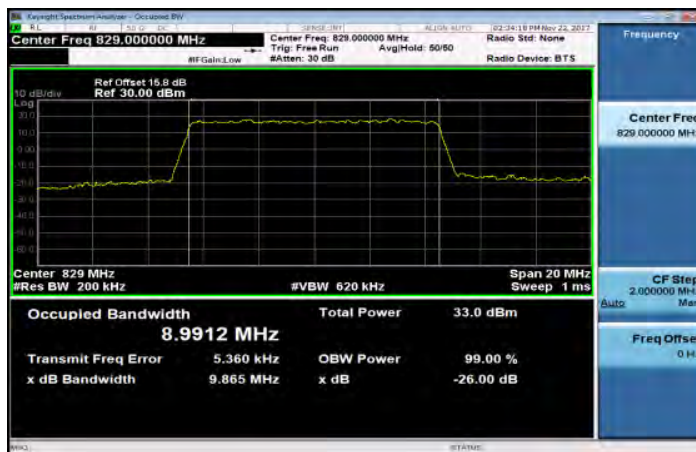
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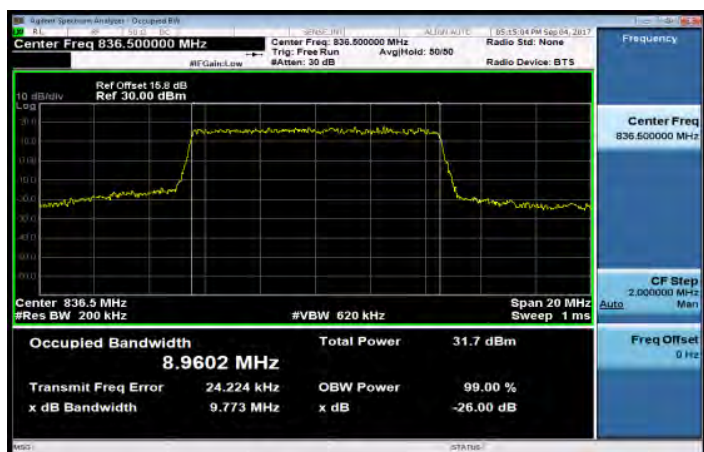
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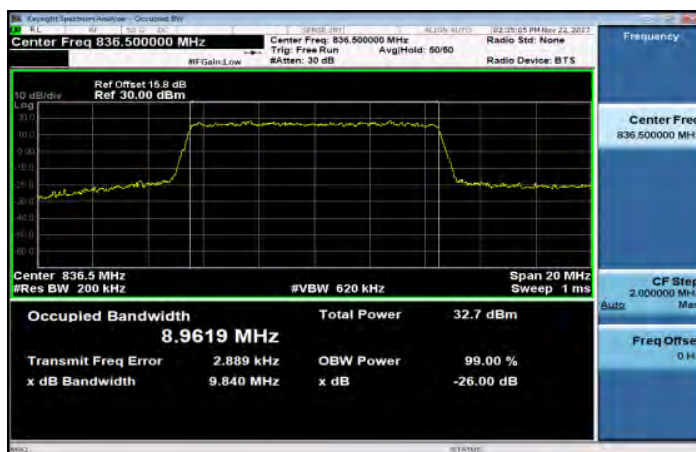
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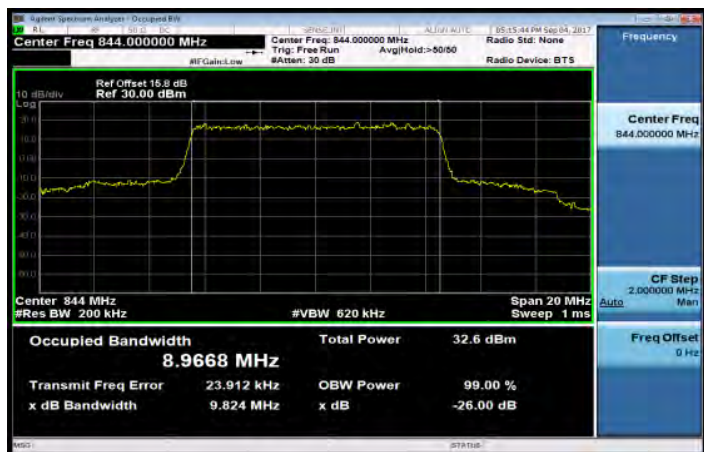
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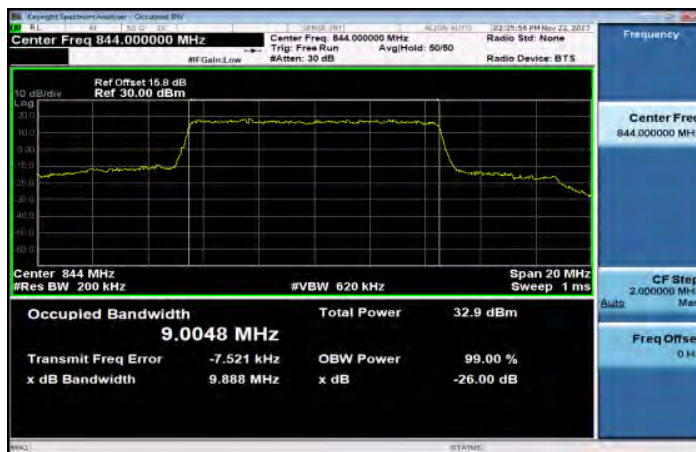
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Band5\_10MHz\_16QAM\_50\_0\_HighCH20600-844



Band5\_10MHz\_64QAM\_50\_0\_HighCH20600-844



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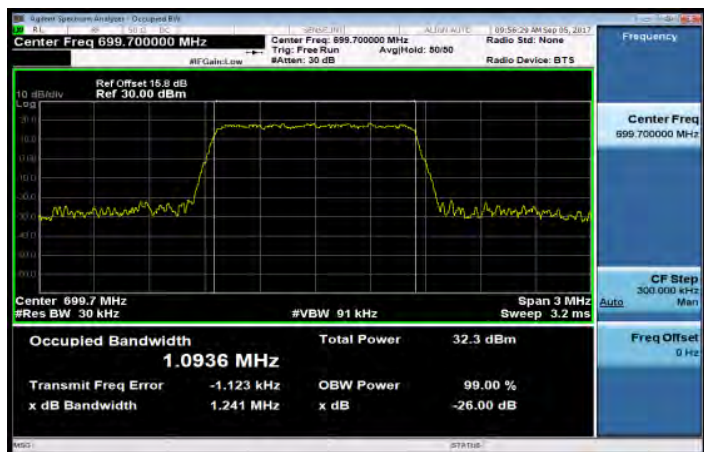
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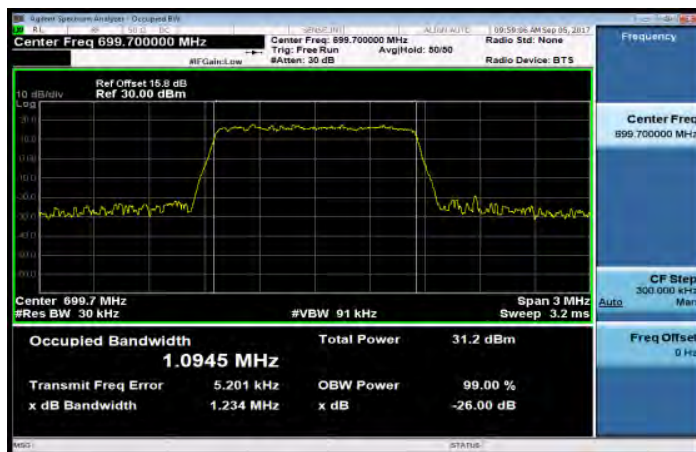
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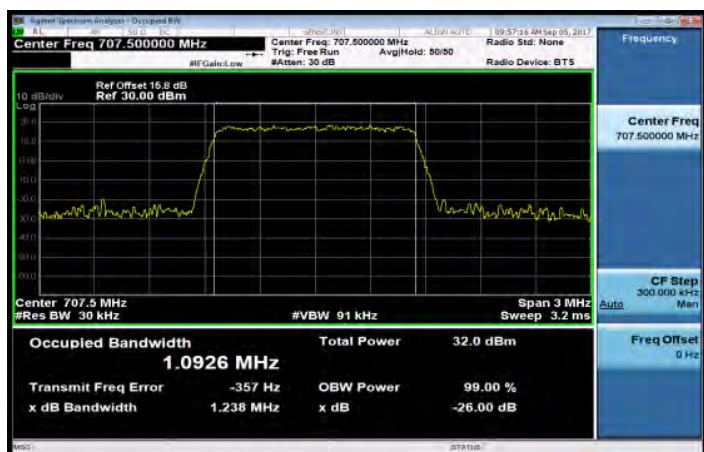
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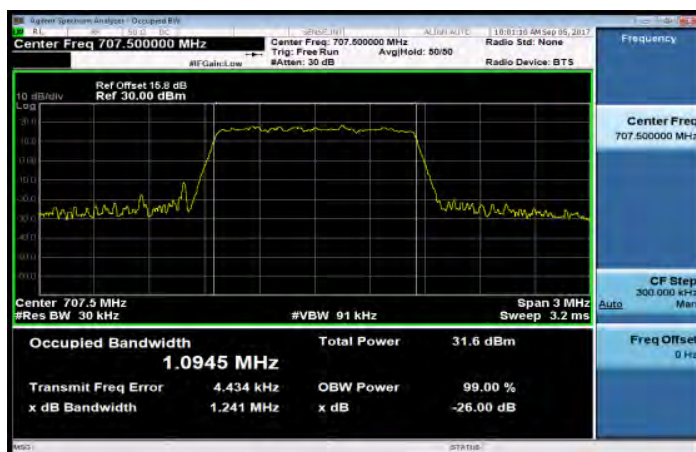
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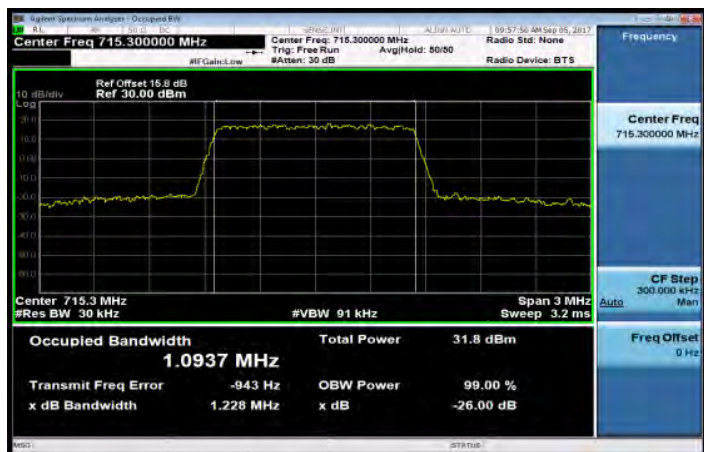
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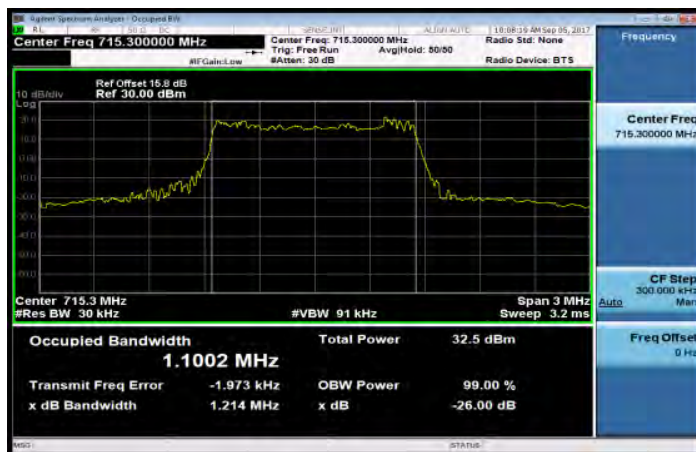
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Band12\_1\_4MHz\_QPSK\_6\_0\_HighCH23173-715.3



Band12\_1\_4MHz\_16QAM\_6\_0\_HighCH23173-715.3



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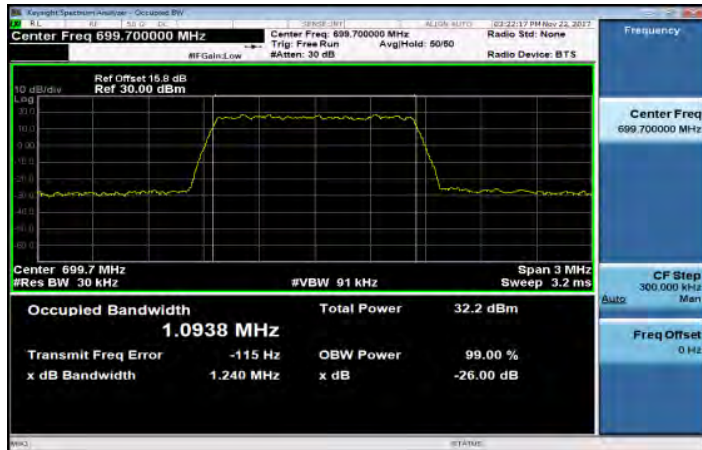
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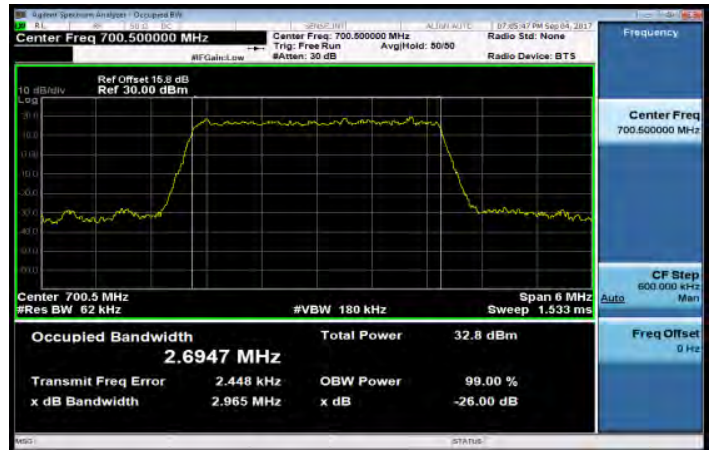
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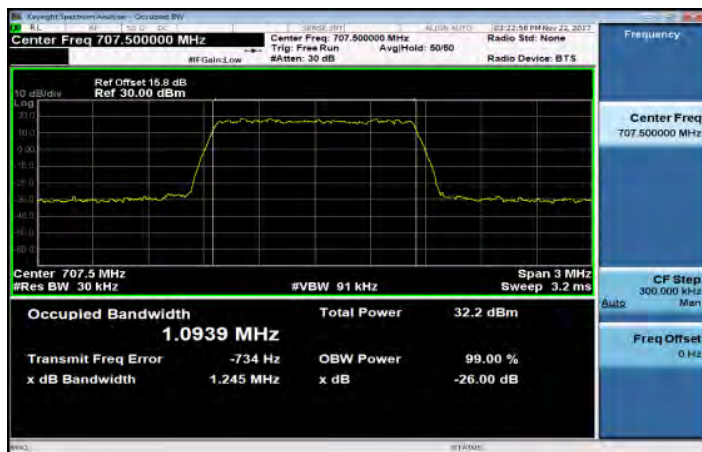
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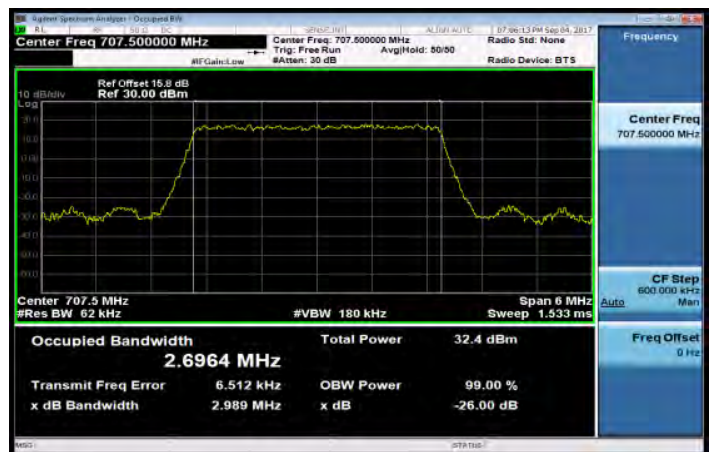
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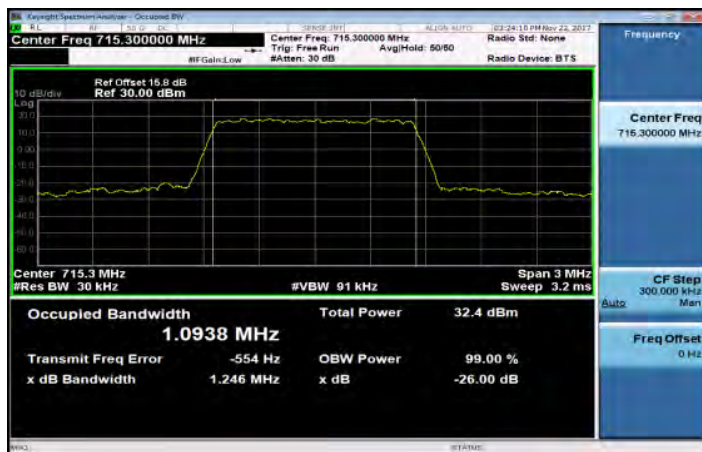
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Band12\_3MHz\_QPSK\_15\_0\_MidCH23095-707.5



Band12\_1\_4MHz\_64QAM\_6\_0\_HighCH23173-715.3



Band12\_3MHz\_QPSK\_15\_0\_HighCH23165-714.5



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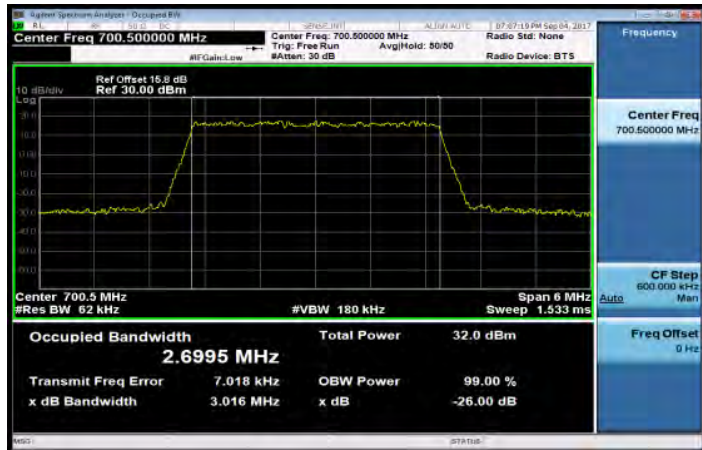
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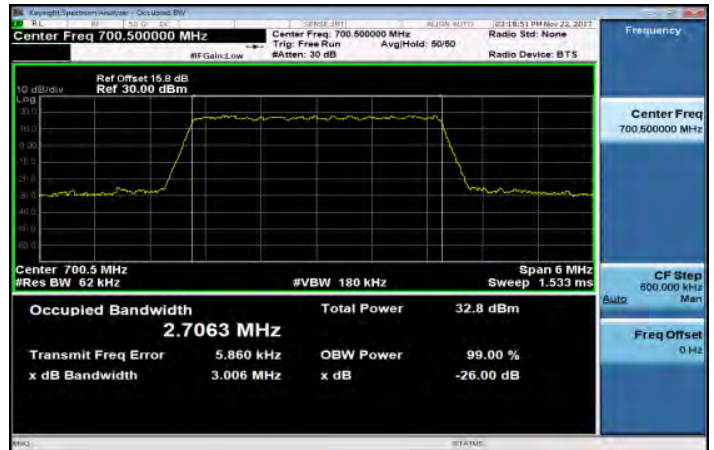
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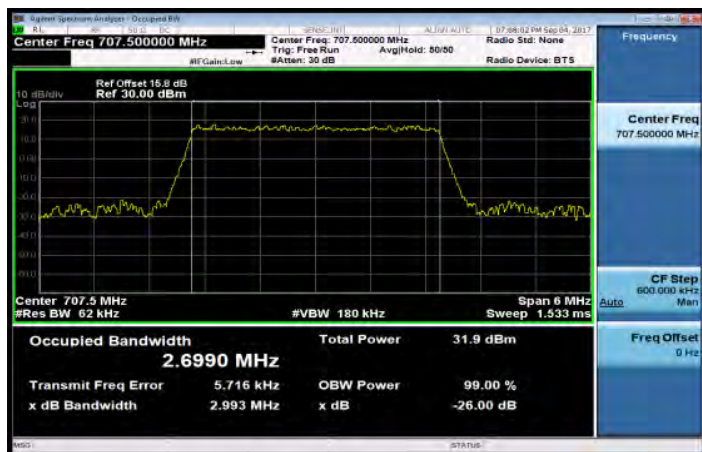
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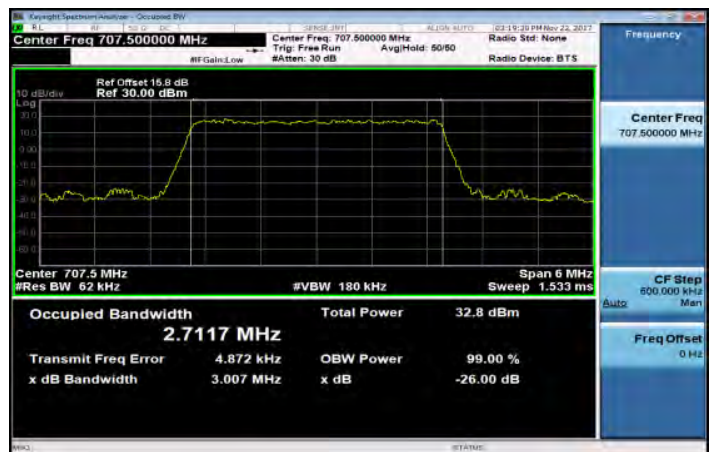
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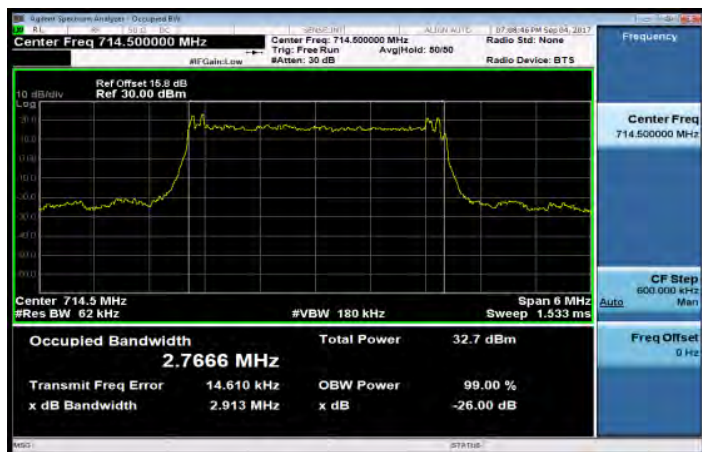
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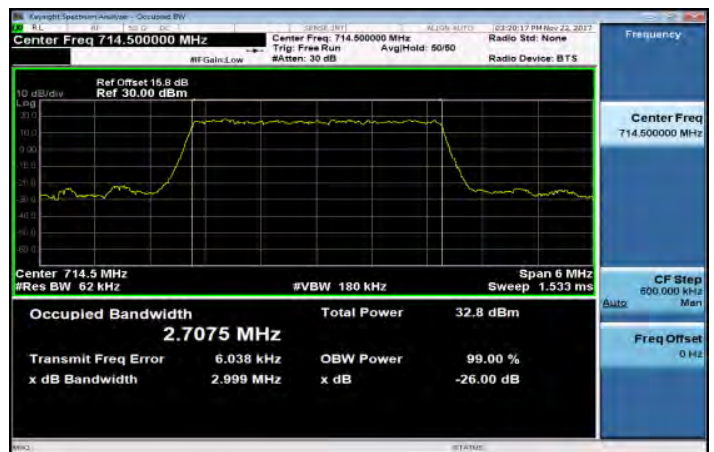
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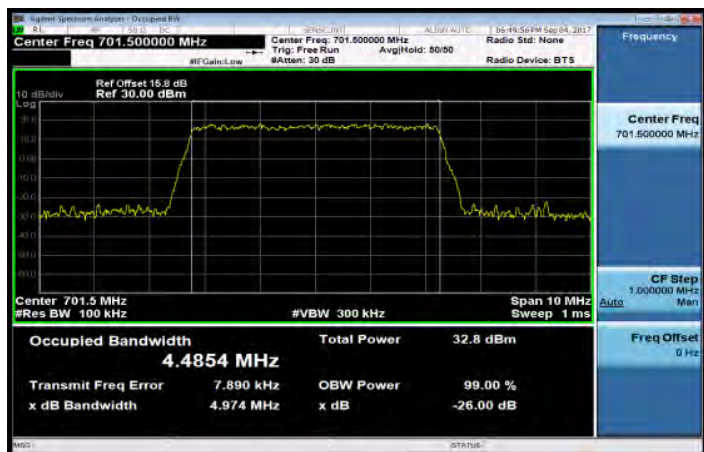
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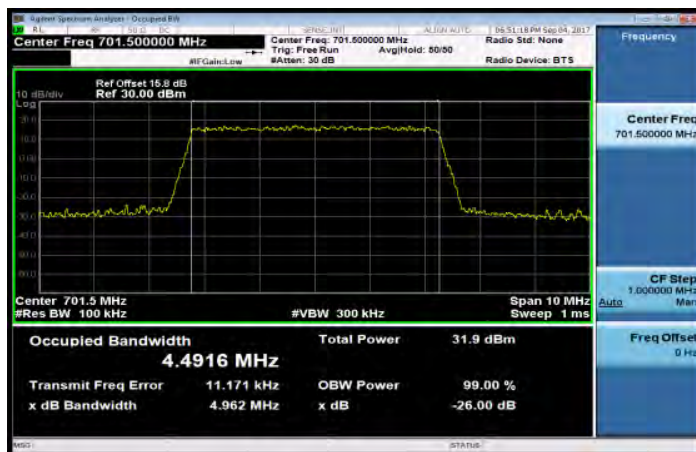
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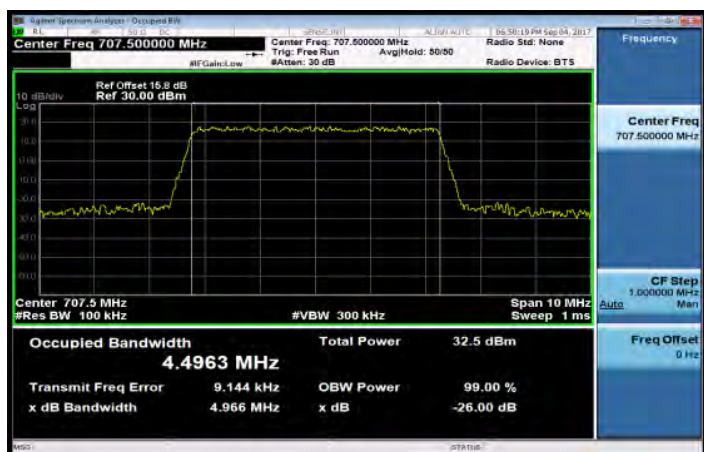
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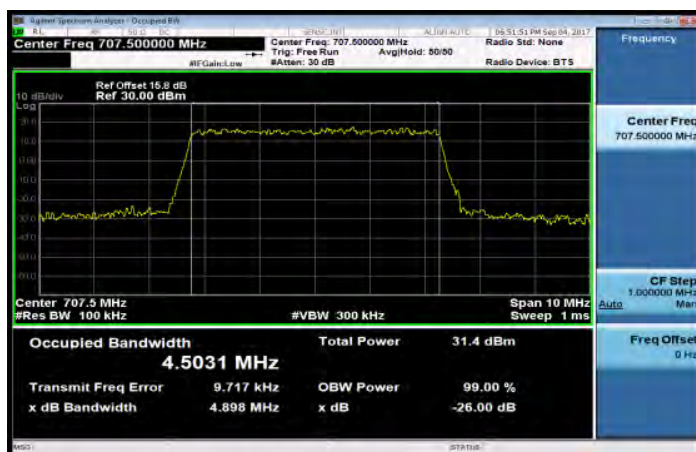
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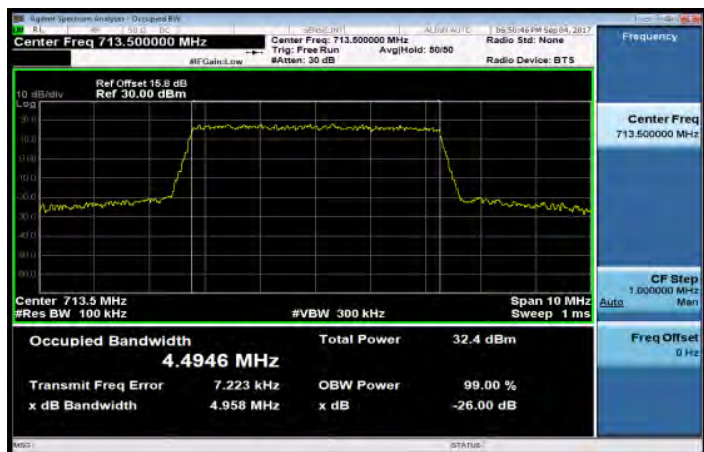
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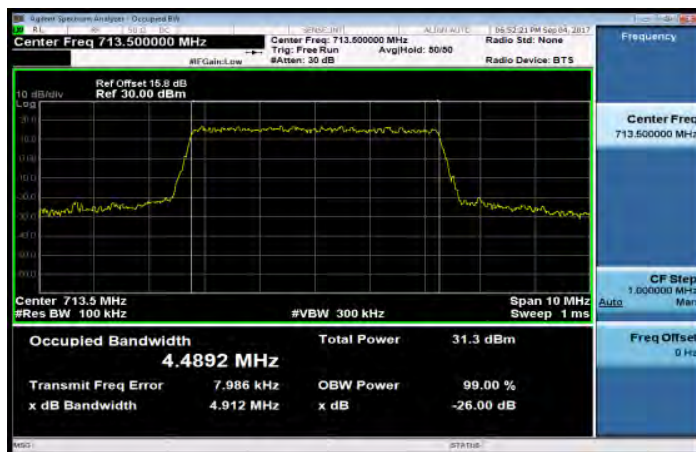
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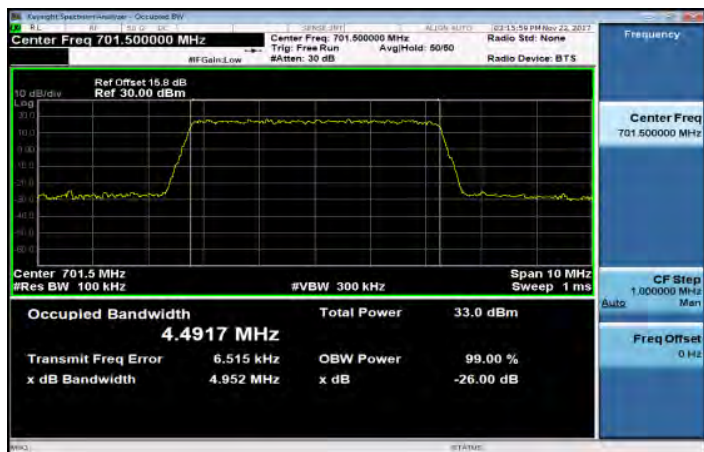
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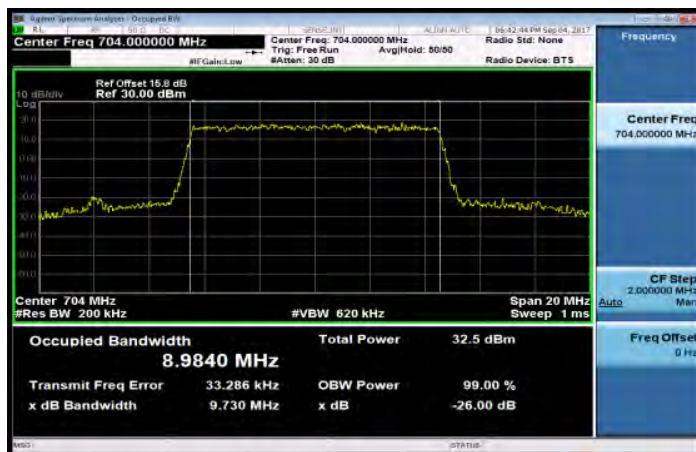
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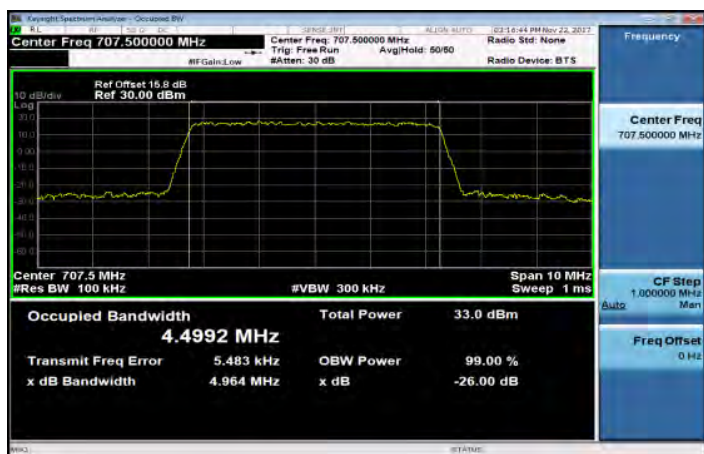
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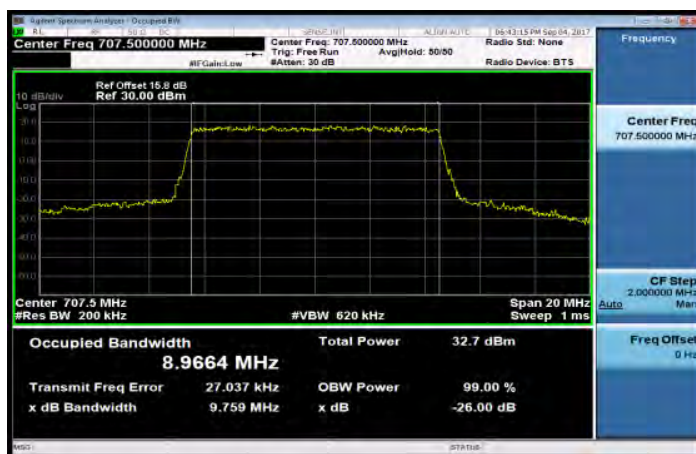
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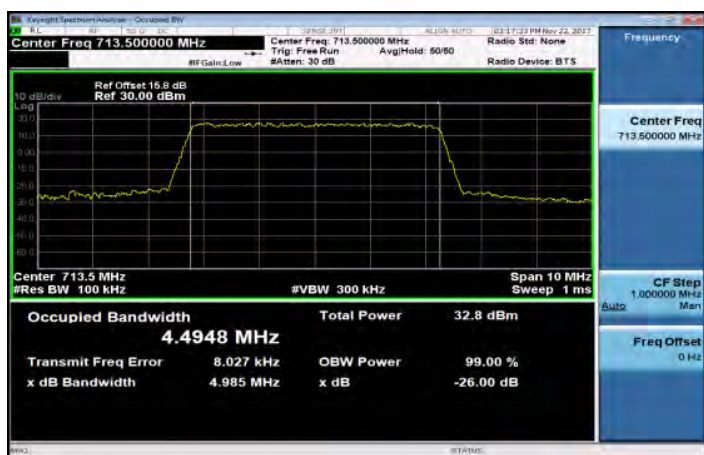
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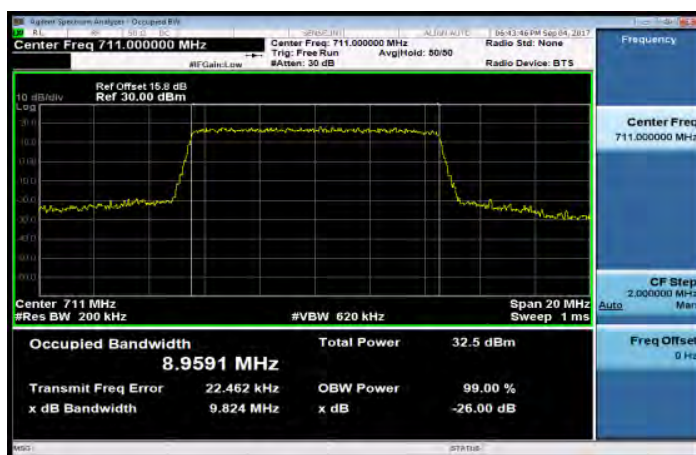
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Band12\_5MHz\_64QAM\_25\_0\_HighCH23155-713.5



Band12\_10MHz\_QPSK\_50\_0\_HighCH23130-711



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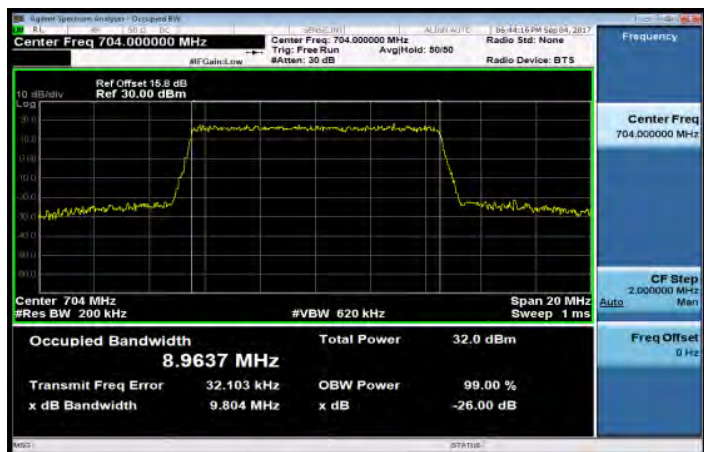
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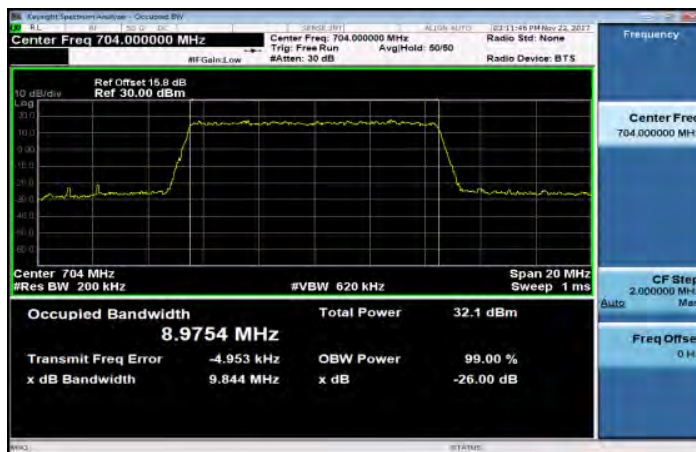
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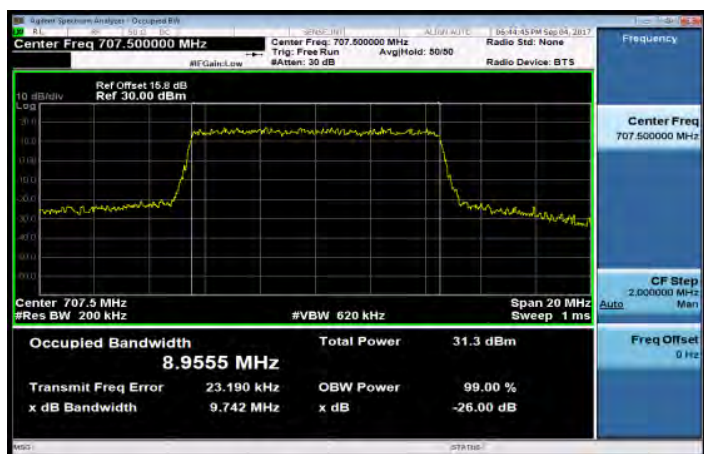
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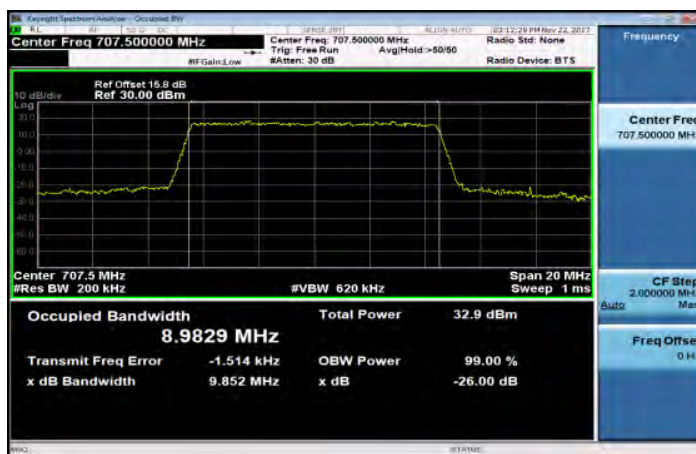
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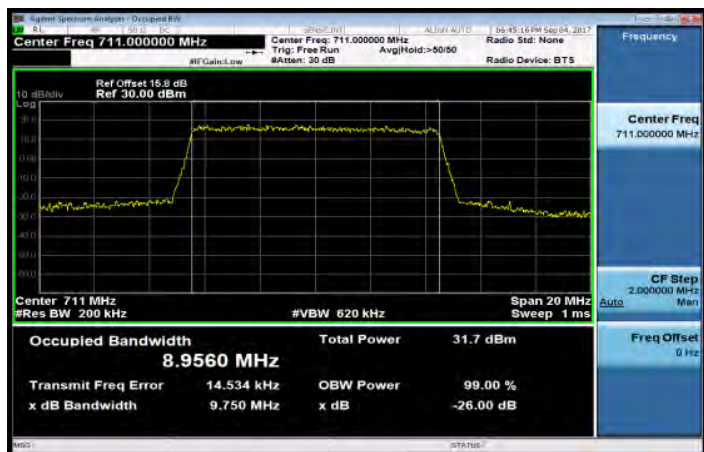
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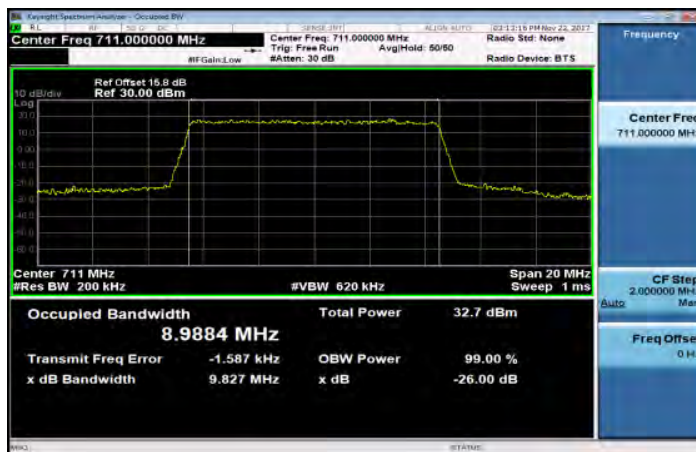
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Band12\_10MHz\_16QAM\_50\_0\_HighCH23130-711



Band12\_10MHz\_64QAM\_50\_0\_HighCH23130-711



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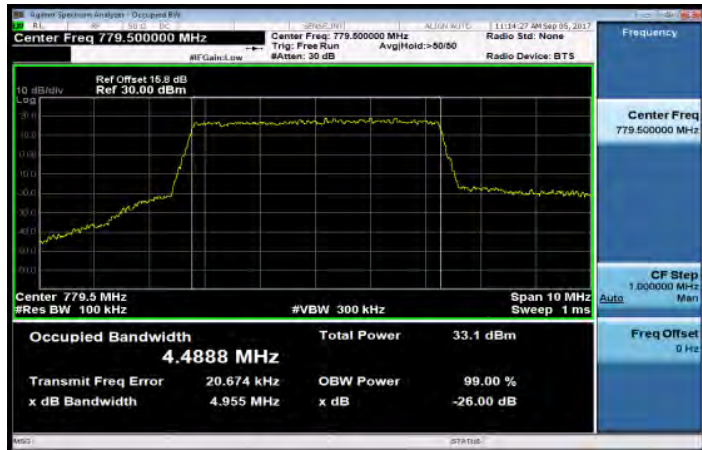
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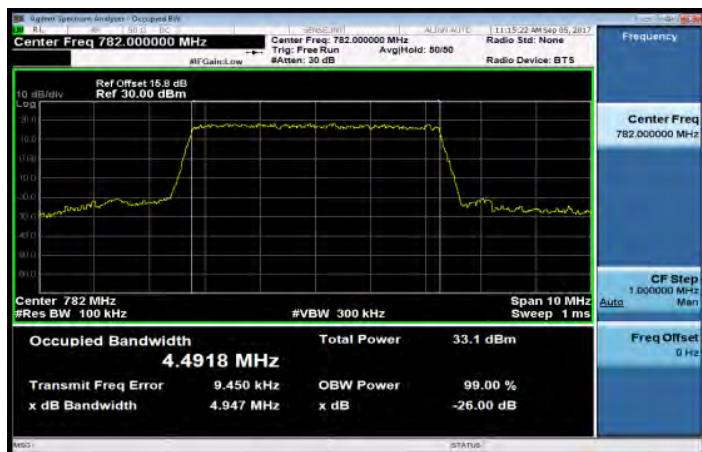
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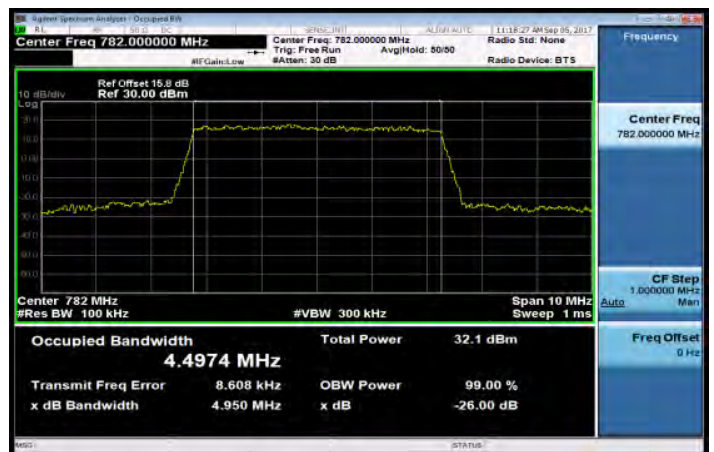
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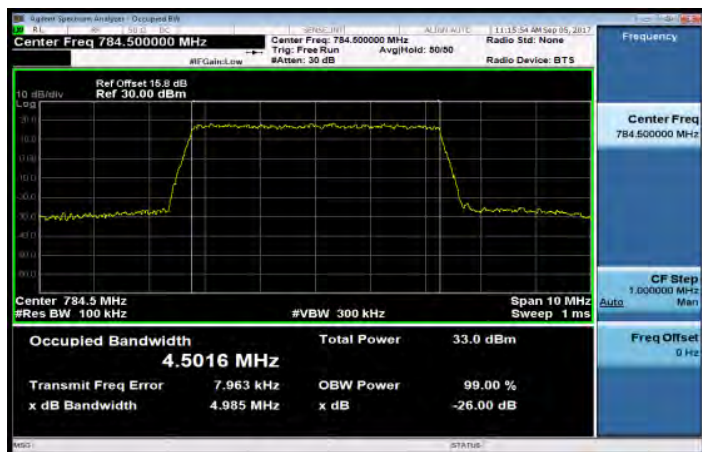
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Band13\_5MHz\_16QAM\_25\_0\_MidCH23230-782



Band13\_5MHz\_QPSK\_25\_0\_HighCH23255-784.5



Band13\_5MHz\_16QAM\_25\_0\_HighCH23255-784.5



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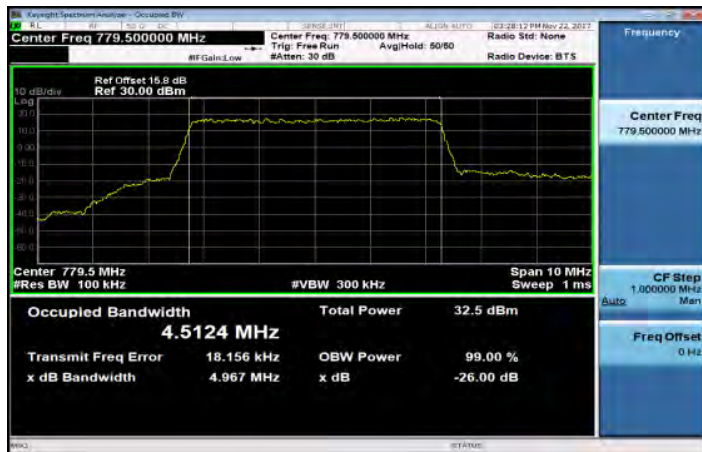
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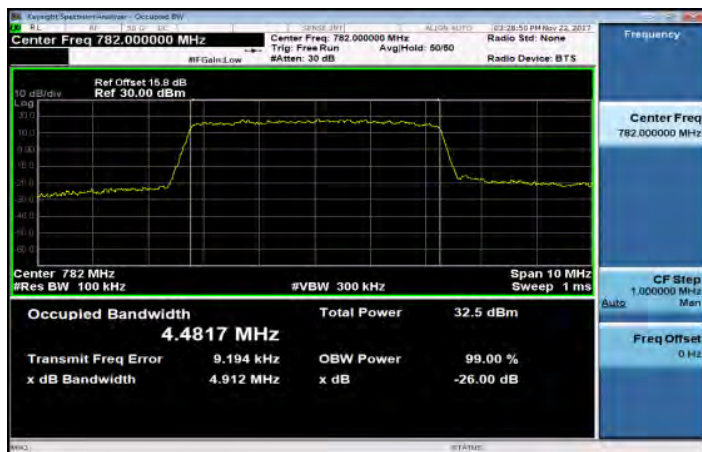
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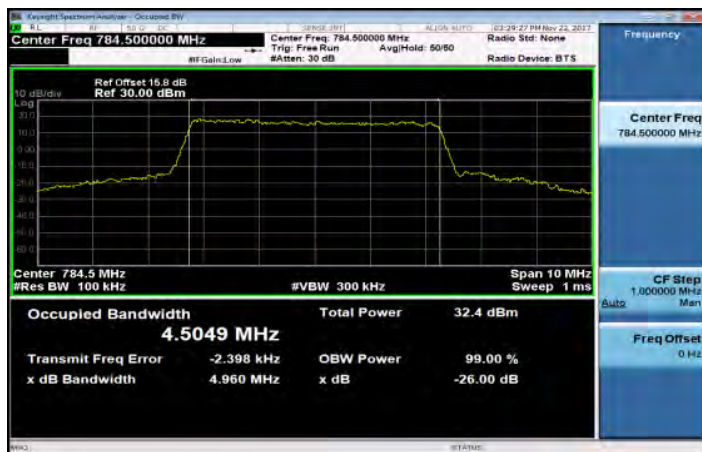
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Band13\_10MHz\_QPSK\_50\_0\_HighCH23230-782



Band13\_5MHz\_64QAM\_25\_0\_HighCH23255-784.5



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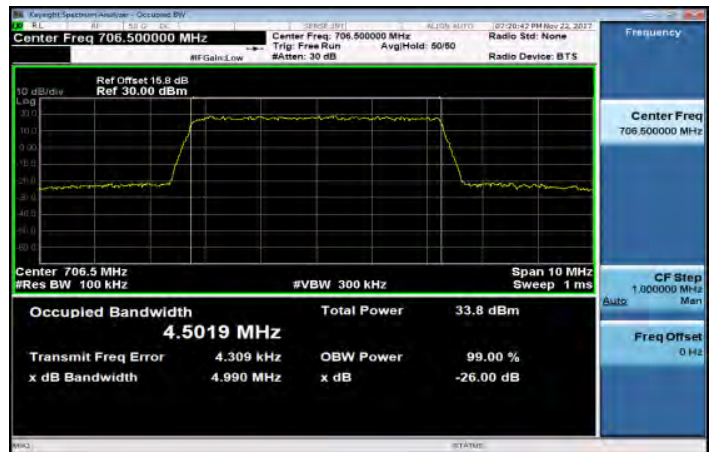
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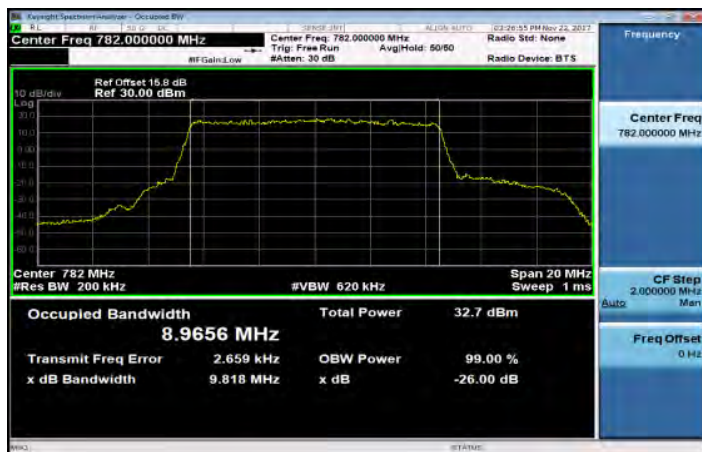
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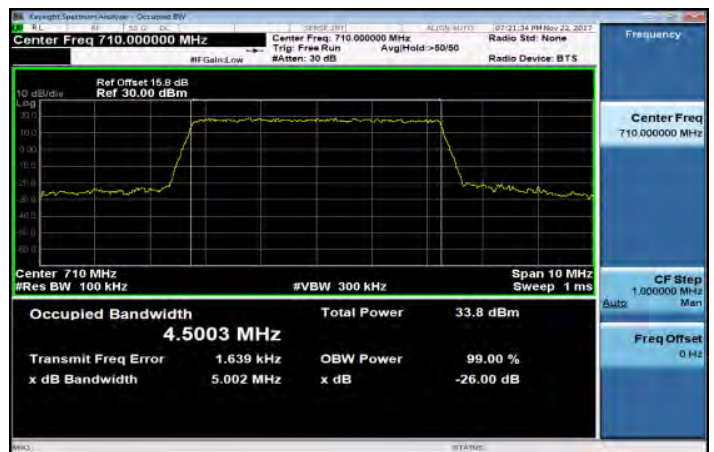
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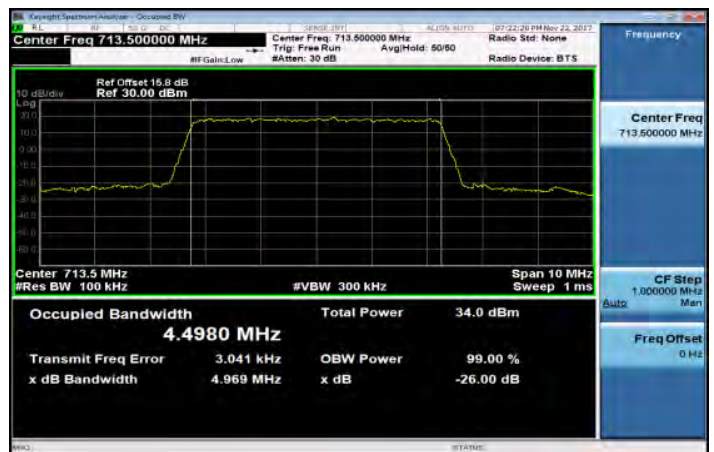
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Band17\_5MHz\_QPSK\_25\_0\_MidCH23790-710



Band17\_5MHz\_QPSK\_25\_0\_HighCH23825-713.5



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