# 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.<br>3390 East Harmony Road Fort Collins, Colorado 80528 United States |
| **Product Name:** | Notebook Computer |
| **Brand Name:** | HP |
| **Model No.:** | HSN-I20C |
| **Model Difference:** | N/A |
| **FCC ID:** | B94HNI20CPK |
| **Report Number:** | E2/2018/70055 |
| **FCC Rule Part:** | 2 , 22H & 24E & 27B, C & L & 90S |
| **Issue Date:** | Sep. 06, 2018 |
| **Date of Test:** | Aug. 27, 2018 |
| **Date of EUT Received:** | Jul. 09, 2018 |

**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.

***Tested By:*** Aken Huang

***Aken Huang / Enigneer***

***Approved By:*** Jim Chang

***Jim Chang / Manager***

Testing Laboratory
0513

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# Revision History

| Report Number | Revision | Description | Effected Page | Issue Date | Revised By |
|---|---|---|---|---|---|
| E2/2018/70055 | Rev.00 | Initial creation of document | All | Sep. 06, 2018 | Stefanie Yu |

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# 1. GENERAL PRODUCT INFORMATION

## 1.1. Product Description

General:

| | | |
|---|---|---|
| Product Name: | Notebook Computer | |
| Brand Name: | HP | |
| Model No.: | HSN-I20C | |
| Model Difference: | N/A | |
| Hardware Version: | N/A | |
| Software Version: | N/A | |
| WWAN Module: | Model No.: L860-GL,<br>Supplier: Fibocom Wireless Inc. | |
| Power Supply: | 7.7Vdc from Rechargeable Li-polymer Battery<br>or 5 / 9 / 10 / 12 / 15 / 20Vdc from AC/DC Adapter | |
| | Battery: | Model No.: HSTNN-DB8M,<br>Supplier: N/A. |
| | Adapter: | 1. Model No.: TPN-CA06,<br>Supplier: CHICONY POWER TECHNOLOGY (CHONG-QING) CO, LTD.<br>2. Model No.: TPN-AA03,<br>Supplier: Acbel Electronic (Wuhan) Co., Ltd. |
| IMEI: | 867921030096110 | |

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## 1.2. 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 | 14 | 5 | 790.5 | - | 795.5 |
| | 3 | 1851.5 | - | 1908.5 | | 10 | 793 | | |
| | 5 | 1852.5 | - | 1907.5 | 17 | 5 | 706.5 | - | 713.5 |
| | 10 | 1855.0 | - | 1905.0 | | 10 | 709.0 | - | 711.0 |
| | 15 | 1857.5 | - | 1902.5 | 25 | 1.4 | 1850.7 | - | 1914.3 |
| | 20 | 1860.0 | - | 1900.0 | | 3 | 1851.5 | - | 1913.5 |
| 4 | 1.4 | 1710.7 | - | 1754.3 | | 5 | 1852.5 | - | 1912.5 |
| | 3 | 1711.5 | - | 1753.5 | | 10 | 1855.0 | - | 1910.0 |
| | 5 | 1712.5 | - | 1752.5 | | 15 | 1857.5 | - | 1907.5 |
| | 10 | 1715.0 | - | 1780.0 | | 20 | 1860.0 | - | 1905.0 |
| | 15 | 1717.5 | - | 1747.5 | 26 | 1.4 | 824.7 | - | 848.3 |
| | 20 | 1720.0 | - | 1745.0 | | 3 | 825.5 | - | 847.5 |
| 5 | 1.4 | 824.7 | - | 848.3 | | 5 | 826.5 | - | 846.5 |
| | 3 | 825.5 | - | 847.5 | | 10 | 829.0 | - | 844.0 |
| | 5 | 826.5 | - | 846.5 | | 15 | 831.5 | - | 841.5 |
| | 10 | 829.0 | - | 844.0 | 26 Part90 | 1.4 | 814.7 | - | 823.3 |
| 7 | 5 | 2502.5 | - | 2567.5 | | 3 | 815.5 | - | 822.5 |
| | 10 | 2505.0 | - | 2565.0 | | 5 | 816.5 | - | 821.5 |
| | 15 | 2507.5 | - | 2562.5 | | 10 | 819.0 | | |
| | 20 | 2510.0 | - | 2560.0 | 30 | 5 | 2307.5 | - | 2312.5 |
| 12 | 1.4 | 699.7 | - | 715.3 | | 10 | 2310.0 | | |
| | 3 | 700.5 | - | 714.5 | 38 | 5 | 2572.5 | - | 2617.5 |
| | 5 | 701.5 | - | 713.5 | | 10 | 2575.0 | - | 2615.0 |
| | 10 | 704.0 | - | 711.0 | | 15 | 2577.5 | - | 2612.5 |
| 13 | 5 | 779.5 | - | 784.5 | | 20 | 2580.0 | - | 2610.0 |
| | 10 | 782 | | | | | | | |

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| 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 | 6036B0215701(WA-P-LTE12-02-008) | WCDMA / HSPA Band II | 1852.4 ~ 1907.6 | -5.17 |
| | | | | WCDMA / HSPA Band IV | 1712.4 ~ 1752.6 | -4.69 |
| | | | | WCDMA / HSPA Band V | 826.4 ~ 846.6 | -3.61 |
| | | | | LTE Band 2 | 1850 ~ 1910 | -5.17 |
| | | | | LTE Band 4 | 1710 ~ 1755 | -4.69 |
| | | | | LTE Band 5 | 824 ~ 849 | -3.61 |
| | | | | LTE Band 7 | 2503 ~ 2560 | -4.62 |
| | | | | LTE Band 12 | 699 ~ 716 | -5.57 |
| | | | | LTE Band 13 | 777 ~ 787 | -5.71 |
| | | | | LTE Band 14 | 788 ~ 798 | N/A |
| | | | | LTE Band 17 | 704 ~ 716 | -5.57 |
| | | | | LTE Band 25 | 1850 ~ 1915 | -5.17 |
| | | | | LTE Band 26 | 824 ~ 849 | -3.61 |
| | | | | LTE Band 26 | 814 ~ 824 | -3.61 |
| | | | | LTE Band 30 | 2305 ~ 2315 | -4.11 |
| | | | | LTE Band 38 | 2570 ~ 2620 | -4.57 |
| | | | | LTE Band 41 | 2496 ~ 2690 | -4.57 |
| | | | | LTE Band 66 | 1710 ~ 1780 | -4.69 |
| | Couple | Aux | 6036B0215801(WA-P-LTE8-02-024) | WCDMA / HSPA Band II | 1852.4 ~ 1907.6 | -8.26 |
| | | | | 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 | -8.26 |
| | | | | LTE Band 4 | 1710 ~ 1755 | N/A |
| | | | | LTE Band 5 | 824 ~ 849 | N/A |
| | | | | LTE Band 7 | 2503 ~ 2560 | N/A |
| | | | | LTE Band 12 | 699 ~ 716 | N/A |
| | | | | LTE Band 13 | 777 ~ 787 | N/A |
| | | | | LTE Band 14 | 788 ~ 798 | -5.58 |
| | | | | LTE Band 17 | 704 ~ 716 | N/A |
| | | | | LTE Band 25 | 1850 ~ 1915 | N/A |
| | | | | LTE Band 26 | 824 ~ 849 | N/A |
| | | | | LTE Band 26 (Part 90S) | 814 ~ 824 | -5.66 |
| | | | | LTE Band 30 | 2305 ~ 2315 | N/A |
| | | | | LTE Band 38 | 2570 ~ 2620 | -5 |
| | | | | LTE Band 41 | 2496 ~ 2690 | -6.08 |
| | | | | LTE Band 66 | 1710 ~ 1780 | N/A |

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

| | ERP / EIRP (dBm) | | (W) | Type of Emission |
|---|---|---|---|---|
| WCDMA Band II | **18.63** | EIRP | **0.07** | 4M08F9W |
| HSDPA Band II | 17.96 | EIRP | 0.06 | 4M08F9W |
| HSUPA Band II | 17.41 | EIRP | 0.06 | 4M07F9W |
| WCDMA Band IV | **18.81** | EIRP | **0.08** | 4M09F9W |
| HSDPA Band IV | 18.37 | EIRP | 0.07 | 4M09F9W |
| HSUPA Band IV | 17.84 | EIRP | 0.06 | 4M09F9W |
| WCDMA Band V | **20.37** | ERP | **0.11** | 4M10F9W |
| HSDPA Band V | 20.22 | ERP | 0.11 | 4M09F9W |
| HSUPA Band V | 19.04 | ERP | 0.08 | 4M10F9W |

| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) | | (W) | Type of Emission |
|---|---|---|---|---|---|---|
| 2 | 1.4 | QPSK | 18.37 | EIRP | 0.069 | 1M12G7D |
| | 1.4 | 16QAM | 17.38 | EIRP | 0.055 | 1M11D7W |
| | 3 | QPSK | 18.36 | EIRP | 0.069 | 2M74G7D |
| | 3 | 16QAM | 17.66 | EIRP | 0.058 | 2M74D7W |
| | 5 | QPSK | 18.39 | EIRP | 0.069 | 4M54G7D |
| | 5 | 16QAM | 17.75 | EIRP | 0.060 | 4M52D7W |
| | 10 | QPSK | **18.54** | EIRP | **0.071** | 9M08G7D |
| | 10 | 16QAM | **17.78** | EIRP | **0.060** | 9M09D7W |
| | 15 | QPSK | 18.32 | EIRP | 0.068 | 13M6G7D |
| | 15 | 16QAM | 17.73 | EIRP | 0.059 | 13M5D7W |
| | 20 | QPSK | 18.53 | EIRP | 0.071 | 18M1G7D |
| | 20 | 16QAM | 17.58 | EIRP | 0.057 | 18M0D7W |

| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) | | (W) | Type of Emission |
|---|---|---|---|---|---|---|
| 4 | 1.4 | QPSK | 18.95 | EIRP | 0.079 | 1M11G7D |
| | 1.4 | 16QAM | 18.25 | EIRP | 0.067 | 1M11D7W |
| | 3 | QPSK | 18.78 | EIRP | 0.076 | 2M74G7D |
| | 3 | 16QAM | 18.19 | EIRP | 0.066 | 2M73D7W |
| | 5 | QPSK | 18.85 | EIRP | 0.077 | 4M54G7D |
| | 5 | 16QAM | **18.26** | EIRP | **0.067** | 4M52D7W |
| | 10 | QPSK | 18.88 | EIRP | 0.077 | 9M08G7D |
| | 10 | 16QAM | 18.25 | EIRP | 0.067 | 9M11D7W |
| | 15 | QPSK | 18.83 | EIRP | 0.076 | 13M6G7D |
| | 15 | 16QAM | **18.26** | EIRP | **0.067** | 13M6D7W |
| | 20 | QPSK | **18.96** | EIRP | **0.079** | 18M1G7D |
| | 20 | 16QAM | 18.09 | EIRP | 0.064 | 18M1D7W |

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| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) | | (W) | Type of Emission |
|---|---|---|---|---|---|---|
| 5 | 1.4 | QPSK | 21.05 | ERP | 0.127 | 1M11G7D |
| | 1.4 | 16QAM | 20.23 | ERP | 0.105 | 1M11D7W |
| | 3 | QPSK | 21.02 | ERP | 0.126 | 2M72G7D |
| | 3 | 16QAM | 20.2 | ERP | 0.105 | 2M73D7W |
| | 5 | QPSK | **21.31** | ERP | **0.135** | 4M54G7D |
| | 5 | 16QAM | 20.33 | ERP | 0.108 | 4M52D7W |
| | 10 | QPSK | 21.08 | ERP | 0.128 | 9M09G7D |
| | 10 | 16QAM | **20.38** | ERP | **0.109** | 8M08D7W |
| 7 | 5 | QPSK | 19.26 | EIRP | 0.084 | 4M53G7D |
| | 5 | 16QAM | 18.22 | EIRP | 0.066 | 4M53D7W |
| | 10 | QPSK | 19.07 | EIRP | 0.081 | 9M11G7D |
| | 10 | 16QAM | **18.34** | EIRP | **0.068** | 9M10D7W |
| | 15 | QPSK | 19.35 | EIRP | 0.086 | 13M58G7D |
| | 15 | 16QAM | 18.2 | EIRP | 0.066 | 13M58D7W |
| | 20 | QPSK | **19.36** | EIRP | **0.086** | 18M06G7D |
| | 20 | 16QAM | 18.33 | EIRP | 0.068 | 18M12D7W |
| 12 | 1.4 | QPSK | **18.43** | ERP | **0.07** | 1M11G7D |
| | 1.4 | 16QAM | 17.38 | ERP | 0.055 | 1M11D7W |
| | 3 | QPSK | 18.14 | ERP | 0.065 | 2M73G7D |
| | 3 | 16QAM | 17.16 | ERP | 0.052 | 2M73D7W |
| | 5 | QPSK | 18.39 | ERP | 0.069 | 4M55G7D |
| | 5 | 16QAM | 17.4 | ERP | 0.055 | 4M54D7W |
| | 10 | QPSK | 18.26 | ERP | 0.067 | 9M17G7D |
| | 10 | 16QAM | **17.42** | ERP | **0.055** | 9M16D7W |
| 13 | 5 | QPSK | **18.17** | ERP | **0.066** | 4M55G7D |
| | 5 | 16QAM | 17.26 | ERP | 0.053 | 4M54D7W |
| | 10 | QPSK | 18.06 | ERP | 0.064 | 9M02G7D |
| | 10 | 16QAM | 16.99 | ERP | 0.050 | 9M02D7W |

| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) | | (W) | Type of Emission |
|---|---|---|---|---|---|---|
| 14 | 5 | QPSK | 17.95 | ERP | 0.062 | 4M53G7D |
| | 5 | 16QAM | 17.21 | ERP | 0.053 | 4M55D7W |
| | 10 | QPSK | **18.26** | ERP | **0.067** | 9M06G7D |
| | 10 | 16QAM | **17.27** | ERP | **0.053** | 9M06D7W |
| 17 | 5 | QPSK | 18.39 | ERP | 0.069 | 4M54G7D |
| | 5 | 16QAM | 17.4 | ERP | 0.055 | 4M53D7W |
| | 10 | QPSK | **18.41** | ERP | **0.069** | 9M12G7D |
| | 10 | 16QAM | 17.33 | ERP | 0.054 | 9M13D7W |
| 25 | 1.4 | QPSK | 23.95 | EIRP | 0.248 | 1M11G7D |
| | 1.4 | 16QAM | 22.98 | EIRP | 0.199 | 1M11D7W |
| | 3 | QPSK | 23.94 | EIRP | 0.248 | 2M73G7D |
| | 3 | 16QAM | 22.92 | EIRP | 0.196 | 2M73D7W |
| | 5 | QPSK | 23.95 | EIRP | 0.248 | 4M54G7D |
| | 5 | 16QAM | 22.99 | EIRP | 0.199 | 4M52D7W |
| | 10 | QPSK | 23.9 | EIRP | 0.245 | 9M09G7D |
| | 10 | 16QAM | 22.98 | EIRP | 0.199 | 9M11D7W |
| | 15 | QPSK | 23.94 | EIRP | 0.248 | 13M6G7D |
| | 15 | 16QAM | 22.95 | EIRP | 0.197 | 13M5D7W |
| | 20 | QPSK | 23.96 | EIRP | **0.249** | 18M0G7D |
| | 20 | 16QAM | 22.88 | EIRP | 0.194 | 18M0D7W |
| 26 | 1.4 | QPSK | 20.53 | ERP | 0.113 | 1M11G7D |
| | 1.4 | 16QAM | 19.91 | ERP | 0.098 | 1M11D7W |
| | 3 | QPSK | 20.57 | ERP | 0.114 | 2M73G7D |
| | 3 | 16QAM | 20.03 | ERP | 0.101 | 2M73D7W |
| | 5 | QPSK | 20.56 | ERP | 0.114 | 4M53G7D |
| | 5 | 16QAM | **20.15** | ERP | **0.104** | 4M52D7W |
| | 10 | QPSK | 20.72 | ERP | 0.118 | 9M07G7D |
| | 10 | 16QAM | 19.9 | ERP | 0.098 | 9M07D7W |
| | 15 | QPSK | **20.83** | ERP | **0.121** | 13M6G7D |
| | 15 | 16QAM | 20.12 | ERP | 0.103 | 13M6D7W |

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| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) | | (W) | Type of Emission |
|---|---|---|---|---|---|---|
| 26 Part90 | 1.4 | QPSK | 20.72 | ERP | 0.118 | 1M11G7D |
| | 1.4 | 16QAM | 19.96 | ERP | 0.099 | 1M11D7W |
| | 3 | QPSK | **20.76** | ERP | **0.119** | 2M72G7D |
| | 3 | 16QAM | **20.28** | ERP | **0.107** | 2M72D7W |
| | 5 | QPSK | 20.6 | ERP | 0.115 | 4M53G7D |
| | 5 | 16QAM | 20.2 | ERP | 0.105 | 4M52D7W |
| | 10 | QPSK | 20.62 | ERP | 0.115 | 9M08G7D |
| | 10 | 16QAM | 19.98 | ERP | 0.100 | 9M11D7W |
| 30 | 5 | QPSK | 19.31 | EIRP | 0.085 | 4M53G7D |
| | 5 | 16QAM | 18.16 | EIRP | 0.065 | 4M53D7W |
| | 10 | QPSK | **19.43** | EIRP | **0.088** | 9M05G7D |
| | 10 | 16QAM | **18.69** | EIRP | **0.074** | 9M05D7W |
| 38 | 5 | QPSK | 19.34 | EIRP | 0.086 | 4M54G7D |
| | 5 | 16QAM | 18.37 | EIRP | 0.069 | 4M54D7W |
| | 10 | QPSK | 19.38 | EIRP | 0.087 | 9M07G7D |
| | 10 | 16QAM | 18.36 | EIRP | 0.069 | 9M05D7W |
| | 15 | QPSK | 19.40 | EIRP | 0.087 | 13M56G7D |
| | 15 | 16QAM | 18.28 | EIRP | 0.067 | 13M56D7W |
| | 20 | QPSK | **19.41** | EIRP | **0.087** | 18M06G7D |
| | 20 | 16QAM | 18.37 | EIRP | 0.069 | 18M04D7W |

| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) | | (W) | Type of Emission |
|---|---|---|---|---|---|---|
| 41 | 5 | QPSK | 20.21 | EIRP | 0.105 | 4M52G7D |
| | 5 | 16QAM | 19.24 | EIRP | 0.084 | 4M52D7W |
| | 10 | QPSK | 20.11 | EIRP | 0.103 | 9M12G7D |
| | 10 | 16QAM | 19.36 | EIRP | 0.086 | 9M08D7W |
| | 15 | QPSK | 20.21 | EIRP | 0.105 | 13M5G7D |
| | 15 | 16QAM | **19.38** | EIRP | **0.087** | 13M6D7W |
| | 20 | QPSK | **20.27** | EIRP | **0.106** | 18M0G7D |
| | 20 | 16QAM | **19.38** | EIRP | **0.087** | 18M1D7W |
| 66 | 1.4 | QPSK | 18.61 | EIRP | 0.073 | 1M11G7D |
| | 1.4 | 16QAM | 18.05 | EIRP | 0.064 | 1M11D7W |
| | 3 | QPSK | 18.61 | EIRP | 0.073 | 2M73G7D |
| | 3 | 16QAM | 17.93 | EIRP | 0.062 | 2M73D7W |
| | 5 | QPSK | 18.8 | EIRP | 0.076 | 4M53G7D |
| | 5 | 16QAM | **18.28** | EIRP | **0.067** | 4M53D7W |
| | 10 | QPSK | 18.85 | EIRP | 0.077 | 9M11G7D |
| | 10 | 16QAM | 18.1 | EIRP | 0.065 | 9M10D7W |
| | 15 | QPSK | 18.76 | EIRP | 0.075 | 13M6G7D |
| | 15 | 16QAM | 18.12 | EIRP | 0.065 | 13M6D7W |
| | 20 | QPSK | **18.94** | EIRP | **0.078** | 18M1G7D |
| | 20 | 16QAM | 18.18 | EIRP | 0.066 | 18M1D7W |

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## 1.4. 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 v03

KDB941225 D01 SAR test for 3G devices v03r01 (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.

## 1.5. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 code 0513)

FCC Registration Numbers are: 735305 / TW0002

## 1.6. Special Accessories

No special accessories were used during testing.

## 1.7. 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 in physical test.

| | RF cable loss (dB) | Attenuation factor(dB) | offset(dB) |
|---|---|---|---|
| Low Band (Below 1GHz) | 3.6 | 10 | 13.6 |
| High Band (Above 1 GHz) | 3.9 | 10 | 13.9 |

## 2.5. Final Amplifier Voltage and Current Information:

| Test Mode | DC voltage (V) | DC current (mA) |
|---|---|---|
| WCDMA B2 | 7.7 | 0.717 |
| WCDMA B4 | | 0.715 |
| WCDMA B5 | | 0.674 |
| LTE Band 2 | | 0.858 |
| LTE Band 4 | | 0.857 |
| LTE Band 5 | | 0.708 |
| LTE Band 7 | | 0.680 |
| LTE Band 12 | | 0.687 |
| LTE Band 13 | | 0.723 |
| LTE Band 14 | | 0.785 |
| LTE Band 17 | | 0.677 |
| LTE Band 25 | | 0.670 |
| LTE Band 26 | | 0.697 |
| LTE Band 26 (Part 90S) | | 0.685 |
| LTE Band 30 | | 0.849 |
| LTE Band 38 | | 0.660 |
| LTE Band 41 | | 0.845 |
| LTE Band 66 | | 0.836 |

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## 2.6. Configuration of Tested System

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

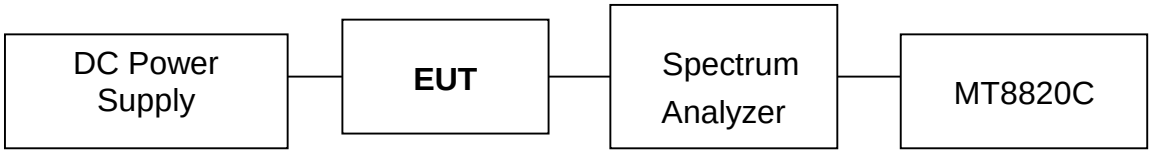
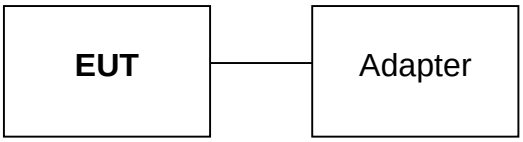



**Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)**




**Remote Side**

**Table 2-1 Equipment Used in**

| Item | Equipment | Mfr/Brand | Model/ Type No. | Series No. | Data Cable | Power Cord |
|---|---|---|---|---|---|---|
| 1. | 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) §24.232(c) §27.50(a)(3) §27.50(c)(10) §27.50(d)(4) §90.635 | ERP/ EIRP measurement | Compliant |
| §2.1049(h) | 99% & 26dB Occuupied Bandwidth | Compliant |
| §2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §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) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(f) §27.53(g) §27.53(h) §27.53(m)(4) §90.691(a)(1)(2) | Field Strength of Spurious Radiation | Compliant |
| §24.232(d) §27.53(d) (5) §27.50(i) (B) | Peak to Average Ratio | Compliant |
| §2.1055(a)(1) §22.355 §24.235 §27.54 §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 14 | 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 Band 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 |
| CONDCUDETED 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 | 1 RB/ 0,5 RB Offest |
| | 18615 to 19185 | 18615, 18900, 19185 | 3MHz | QPSK, 16QAM | 1 RB/ 0,14 RB Offest |
| | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | QPSK, 16QAM | 1 RB/ 0,24 RB Offest |
| | 18650 to 19150 | 18650, 18900, 19150 | 10MHz | QPSK, 16QAM | 1 RB/ 0,49 RB Offest |
| | 18675 to 19125 | 18675, 18900, 19125 | 15MHz | QPSK, 16QAM | 1 RB/ 0,74 RB Offest |
| | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | QPSK, 16QAM | 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 | Full RB |
| | 18615 to 19185 | 18615, 18900, 19185 | 3MHz | QPSK, 16QAM | Full RB |
| | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | QPSK, 16QAM | Full RB |
| | 18650 to 19150 | 18650, 18900, 19150 | 10MHz | QPSK, 16QAM | Full RB |
| | 18675 to 19125 | 18675, 18900, 19125 | 15MHz | QPSK, 16QAM | Full RB |
| | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | QPSK, 16QAM | Full RB |
| PEAK TO AVERAGE RATIO | 18607 to 19193 | 18607, 18900, 19193 | 1.4MHz | 16QAM | Full RB |
| | 18615 to 19185 | 18615, 18900, 19185 | 3MHz | 16QAM | Full RB |
| | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | 16QAM | Full RB |
| | 18650 to 19150 | 18650, 18900, 19150 | 10MHz | 16QAM | Full RB |
| | 18675 to 19125 | 18675, 18900, 19125 | 15MHz | 16QAM | Full RB |
| | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | 16QAM | 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 |
| CONDCUDETED 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 | 10MHz | QPSK | 1 RB, 0 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 | 1 RB/ 0,5 RB Offest |
| | 19965 to 22385 | 19965, 20175, 22385 | 3MHz | QPSK, 16QAM | 1 RB/ 0,14 RB Offest |
| | 19975 to 20375 | 19975, 20175, 20375 | 5MHz | QPSK, 16QAM | 1 RB/ 0,24 RB Offest |
| | 20000 to 20350 | 20000, 20175, 20350 | 10MHz | QPSK, 16QAM | 1 RB/ 0,49 RB Offest |
| | 20025 to 20325 | 20025, 20175, 20325 | 15MHz | QPSK, 16QAM | 1 RB/ 0,74 RB Offest |
| | 20050 to 20300 | 20050, 20175, 20300 | 20MHz | QPSK, 16QAM | 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 | Full RB |
| | 19965 to 22385 | 19965, 20175, 22385 | 3MHz | QPSK, 16QAM, | Full RB |
| | 19975 to 20375 | 19975, 20175, 20375 | 5MHz | QPSK, 16QAM, | Full RB |
| | 20000 to 20350 | 20000, 20175, 20350 | 10MHz | QPSK, 16QAM, | Full RB |
| | 20025 to 20325 | 20025, 20175, 20325 | 15MHz | QPSK, 16QAM, | Full RB |
| | 20050 to 20300 | 20050, 20175, 20300 | 20MHz | QPSK, 16QAM, | Full RB |
| PEAK TO AVERAGE RATIO | 19957 to 19393 | 19957, 20175, 19393 | 1.4MHz | 16QAM | Full RB |
| | 19965 to 22385 | 19965, 20175, 22385 | 3MHz | 16QAM | Full RB |
| | 19975 to 20375 | 19975, 20175, 20375 | 5MHz | 16QAM | Full RB |
| | 20000 to 20350 | 20000, 20175, 20350 | 10MHz | 16QAM | Full RB |
| | 20025 to 20325 | 20025, 20175, 20325 | 15MHz | 16QAM | Full RB |
| | 20050 to 20300 | 20050, 20175, 20300 | 20MHz | 16QAM | 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 |
| CONDCUDETED 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 | 20MHz | QPSK, | 1 RB, 99 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, | 1 RB/ 0,5 RB Offest |
| | 20415 to 20635 | 20415, 20525, 20635 | 3MHz | QPSK, 16QAM, | 1 RB/ 0,14 RB Offest |
| | 20425 to 20625 | 20425, 20525, 20625 | 5MHz | QPSK, 16QAM, | 1 RB/ 0,24 RB Offest |
| | 20450 to 20600 | 20450, 20525, 20600 | 10MHz | QPSK, 16QAM, | 1 RB/ 0,49 RB Offest |
| FREQUENCY STA-BILITY | 20450 to 20600 | 20525 | 10MHz | QPSK, | Full RB |
| OCCUPIED BAND-WIDTH | 20470 to 20643 | 20470, 20525, 20643 | 1.4MHz | QPSK, 16QAM, | Full RB |
| | 20415 to 20635 | 20415, 20525, 20635 | 3MHz | QPSK, 16QAM, | Full RB |
| | 20425 to 20625 | 20425, 20525, 20625 | 5MHz | QPSK, 16QAM, | Full RB |
| | 20450 to 20600 | 20450, 20525, 20600 | 10MHz | QPSK, 16QAM, | Full RB |
| PEAK TO AVERAGE RATIO | 20470 to 20643 | 20470, 20525, 20643 | 1.4MHz | 16QAM | Full RB |
| | 20415 to 20635 | 20415, 20525, 20635 | 3MHz | 16QAM | Full RB |
| | 20425 to 20625 | 20425, 20525, 20625 | 5MHz | 16QAM | Full RB |
| | 20450 to 20600 | 20450, 20525, 20600 | 10MHz | 16QAM | 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 |
| CONDCUDETED 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 | 5MHz | QPSK, | 1 RB, 24 RB Offest |

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## LTE Band 7 MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
|---|---|---|---|---|---|
| EIRP | 20775 to 21425 | 20775, 21100, 21425 | 5MHz | QPSK, 16QAM | 1 RB/ 0,24 RB Offest |
| | 20800 to 21400 | 20800, 21100, 21400 | 10MHz | QPSK, 16QAM | 1 RB/ 0,49 RB Offest |
| | 20850 to 21375 | 20850, 21100, 21375 | 15MHz | QPSK, 16QAM | 1 RB/ 0,74 RB Offest |
| | 20850 to 21350 | 20850, 21100, 21350 | 20MHz | QPSK, 16QAM | 1 RB/ 0,99 RB Offest |
| FREQUENCY STABILITY | 20800 to 21400 | 21100 | 10MHz | QPSK | Full RB |
| OCCUPIED BAND-WIDTH | 20775 to 21425 | 20775, 21100, 21425 | 5MHz | QPSK, 16QAM | Full RB |
| | 20800 to 21400 | 20800, 21100, 21400 | 10MHz | QPSK, 16QAM | Full RB |
| | 20850 to 21375 | 20850, 21100, 21375 | 15MHz | QPSK, 16QAM | Full RB |
| | 20850 to 21350 | 20850, 21100, 21350 | 20MHz | QPSK, 16QAM | Full RB |
| PEAK TO AVERAGE RATIO | 20775 to 21425 | 20775, 21100, 21425 | 5MHz | 16QAM | Full RB |
| | 20800 to 21400 | 20800, 21100, 21400 | 10MHz | 16QAM | Full RB |
| | 20850 to 21375 | 20850, 21100, 21375 | 15MHz | 16QAM | Full RB |
| | 20850 to 21350 | 20850, 21100, 21350 | 20MHz | 16QAM | Full RB |
| BAND EDGE | 20775 to 21425 | 20775, 21100, 21425 | 5MHz | QPSK | 1 RB/ 0,24 RB Offest<br>Full RB |
| | 20800 to 21400 | 20800, 21100, 21400 | 10MHz | QPSK | 1 RB/ 0,49 RB Offest<br>Full RB |
| | 20850 to 21375 | 20850, 21100, 21375 | 15MHz | QPSK | 1 RB/ 0,74 RB Offest<br>Full RB |
| | 20850 to 21350 | 20850, 21100, 21350 | 20MHz | QPSK | 1 RB/ 0,99 RB Offest<br>Full RB |
| CONDCUDETED EMISSION | 20775 to 21425 | 20775, 21100, 21425 | 5MHz | QPSK | 1 RB, 0 RB Offest |
| | 20800 to 21400 | 20800, 21100, 21400 | 10MHz | QPSK | 1 RB, 0 RB Offest |
| | 20850 to 21375 | 20850, 21100, 21375 | 15MHz | QPSK | 1 RB, 0 RB Offest |
| | 20850 to 21350 | 20850, 21100, 21350 | 20MHz | QPSK | 1 RB, 0 RB Offest |
| RADIATED EMISSION | 20800 to 21400 | 20800, 21100, 21400 | 20MHz | 16QAM | 1 RB, 0 RB Offest |
| EMISSION MASK | 20775 to 21425 | 20775, 21100, 21425 | 5MHz | QPSK | 1 RB/ 0,24 RB Offest<br>25 RB/ 0 Offset |
| | 20800 to 21400 | 20800, 21100, 21400 | 10MHz | QPSK | 1 RB/ 0,49 RB Offest<br>50 RB/ 0 Offset |
| | 20850 to 21375 | 20850, 21100, 21375 | 15MHz | QPSK | 1 RB/ 0,74 RB Offest<br>75 RB/ 0 Offset |
| | 20850 to 21350 | 20850, 21100, 21350 | 20MHz | QPSK | 1 RB/ 0,99 RB Offest<br>100 RB/ 0 Offset |

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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, | 1 RB/ 0,5 RB Offest |
| | 23025 to 23165 | 23025, 23095, 23165 | 3MHz | QPSK, 16QAM, | 1 RB/ 0,14 RB Offest |
| | 23035 to 23155 | 23035, 23095, 23155 | 5MHz | QPSK, 16QAM, | 1 RB/ 0,24 RB Offest |
| | 23060 to 23130 | 23060, 23095, 23130 | 10MHz | QPSK, 16QAM, | 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, | Full RB |
| | 23025 to 23165 | 23025, 23095, 23165 | 3MHz | QPSK, 16QAM, | Full RB |
| | 23035 to 23155 | 23035, 23095, 23155 | 5MHz | QPSK, 16QAM, | Full RB |
| | 23060 to 23130 | 23060, 23095, 23130 | 10MHz | QPSK, 16QAM, | Full RB |
| PEAK TO AV-ERAGE RATIO | 23017 to 23173 | 23017, 23095, 23173 | 1.4MHz | 16QAM | Full RB |
| | 23025 to 23165 | 23025, 23095, 23165 | 3MHz | 16QAM | Full RB |
| | 23035 to 23155 | 23035, 23095, 23155 | 5MHz | 16QAM | Full RB |
| | 23060 to 23130 | 23060, 23095, 23130 | 10MHz | 16QAM | 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 |
| CONDCU-DETED EMIS-SION | 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, 0 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, | 1 RB/ 0,24 RB Offest |
| | 23230 | 23230 | 10MHz | QPSK, 16QAM, | 1 RB/ 0,49 RB Offest |
| FREQUENCY STA-BILITY | 23230 | 23230 | 10MHz | QPSK, | Full RB |
| OCCUPIED BAND-WIDTH | 23205 to 23255 | 23205, 23230, 23255 | 5MHz | QPSK, 16QAM, | Full RB |
| | 23230 | 23230 | 10MHz | QPSK, 16QAM, | Full RB |
| PEAK TO AVERAGE RATIO | 23205 to 23255 | 23205, 23230, 23255 | 5MHz | 16QAM | Full RB |
| | 23230 | 23230 | 10MHz | 16QAM | 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 |
| CONDCUDETED 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 | 10MHz | QPSK, | 1 RB/ 25 RB Offest |

## LTE Band 14 MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
|---|---|---|---|---|---|
| ERP | 23305 to 23355 | 23305,23330,23355 | 5MHz | QPSK, 16QAM, | 1 RB/ 0,24 RB Offest |
| | 23330 | 23330 | 10MHz | QPSK, 16QAM, | 1 RB/ 0,49 RB Offest |
| FREQUENCY STA-BILITY | 23330 | 23330 | 10MHz | QPSK, | Full RB |
| OCCUPIED BAND-WIDTH | 23305 to 23355 | 23305,23330,23355 | 5MHz | QPSK, 16QAM, | Full RB |
| | 23330 | 23330 | 10MHz | QPSK, 16QAM, | Full RB |
| PEAK TO AVERAGE RATIO | 23305 to 23355 | 23305,23330,23355 | 5MHz | 16QAM | Full RB |
| | 23330 | 23330 | 10MHz | 16QAM | Full RB |
| BAND EDGE | 23305 to 23355 | 23305, 23355 | 5MHz | QPSK, | 1 RB/ 0,24 RB Offest<br>Full RB |
| | 23330 | 23330 | 10MHz | QPSK, | 1 RB/ 0,49 RB Offest<br>Full RB |
| CONDCUDETED EMISSION | 23305 to 23355 | 23305,23330,23355 | 5MHz | QPSK, | 1 RB, 0 RB Offest |
| | 23330 | 23330 | 10MHz | QPSK, | 1 RB, 0 RB Offest |
| RADIATED EMIS-SION | 23305 to 23355 | 23305,23330,23355 | 10MHz | QPSK, | 1 RB/ 0 RB Offest |

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## LTE Band 17 MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
|---|---|---|---|---|---|
| ERP | 23755 to 23825 | 23755, 23790, 23825 | 5MHz | QPSK, 16QAM, | 1 RB/ 0,24 RB Offest |
| | 23780 to 23800 | 23780, 23790, 23800 | 10MHz | QPSK, 16QAM, | 1 RB/ 0,49 RB Offest |
| FREQUENCY STA-BILITY | 23780 to 23800 | 23790 | 10MHz | QPSK, | Full RB |
| OCCUPIED BAND-WIDTH | 23755 to 23825 | 23755, 23790, 23825 | 5MHz | QPSK, 16QAM, | Full RB |
| | 23780 to 23800 | 23780, 23790, 23800 | 10MHz | QPSK, 16QAM, | Full RB |
| PEAK TO AVERAGE RATIO | 23755 to 23825 | 23755, 23790, 23825 | 5MHz | 16QAM | Full RB |
| | 23780 to 23800 | 23780, 23790, 23800 | 10MHz | 16QAM | 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 |
| CONDCUDETED 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 | 10MHz | QPSK, | 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 | 1 RB/ 0,5 RB Offest |
| | 26055 to 26365 | 26055, 26365,26675 | 3MHz | QPSK, 16QAM | 1 RB/ 0,14 RB Offest |
| | 26065 to 26665 | 26065,26365,26665 | 5MHz | QPSK, 16QAM | 1 RB/ 0,24 RB Offest |
| | 26090 to 26640 | 26090,26365,26640 | 10MHz | QPSK, 16QAM | 1 RB/ 0,49 RB Offest |
| | 26115 to 26615 | 26115,26365,26615 | 15MHz | QPSK, 16QAM | 1 RB/ 0,74 RB Offest |
| | 26140 to 26590 | 26140,26365,26590 | 20MHz | QPSK, 16QAM | 1 RB/ 0,99 RB Offest |
| FREQUENCY STA-BILITY | 26140 to 26590 | 26365 | 20MHz | QPSK, | Full RB |
| OCCUPIED BAND-WIDTH | 26047 to 26683 | 26047,26365,26683 | 1.4MHz | QPSK, 16QAM | Full RB |
| | 26055 to 26365 | 26055, 26365,26675 | 3MHz | QPSK, 16QAM, | Full RB |
| | 26065 to 26665 | 26065,26365,26665 | 5MHz | QPSK, 16QAM, | Full RB |
| | 26090 to 26640 | 26090,26365,26640 | 10MHz | QPSK, 16QAM, | Full RB |
| | 26115 to 26615 | 26115,26365,26615 | 15MHz | QPSK, 16QAM, | Full RB |
| | 26140 to 26590 | 26140,26365,26590 | 20MHz | QPSK, 16QAM, | Full RB |
| PEAK TO AVERAGE RATIO | 26047 to 26683 | 26047,26365,26683 | 1.4MHz | 16QAM | Full RB |
| | 26055 to 26365 | 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 26365 | 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 |
| CONDCUDETED EMISSION | 26047 to 26683 | 26047,26365,26683 | 1.4MHz | QPSK, | 1 RB, 0 RB Offest |
| | 26055 to 26365 | 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 | 26047 to 26683 | 26047,26365,26683 | 20MHz | 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 | 26697 to 27033 | 26697, 26865, 27033 | 1.4MHz | QPSK, 16QAM, | 1 RB/ 0,5 RB Offest |
| | 26705 to 27025 | 26705, 26865, 27025 | 3MHz | QPSK, 16QAM, | 1 RB/ 0,14 RB Offest |
| | 26715 to 27015 | 26815, 26865, 27015 | 5MHz | QPSK, 16QAM, | 1 RB/ 0,24 RB Offest |
| | 26750 to 26990 | 26750, 26865, 26990 | 10MHz | QPSK, 16QAM, | 1 RB/ 0,49 RB Offest |
| | 26775 to 26965 | 26775, 26865, 26965 | 15MHz | QPSK, 16QAM, | 1 RB/ 0,74 RB Offest |
| FREQUENCY STABILITY | 26775 to 26965 | 26865 | 15MHz | QPSK, | Full RB |
| OCCUPIED BANDWIDTH | 26697 to 27033 | 26697, 26865, 27033 | 1.4MHz | QPSK, 16QAM, | Full RB |
| | 26705 to 27025 | 26705, 26865, 27025 | 3MHz | QPSK, 16QAM, | Full RB |
| | 26715 to 27015 | 26815, 26865, 27015 | 5MHz | QPSK, 16QAM, | Full RB |
| | 26750 to 26990 | 26750, 26865, 26990 | 10MHz | QPSK, 16QAM, | Full RB |
| | 26775 to 26965 | 26775, 26865, 26965 | 15MHz | QPSK, 16QAM, | Full RB |
| PEAK TO AV-ERAGE RATIO | 26697 to 27033 | 26697, 26865, 27033 | 1.4MHz | 16QAM | Full RB |
| | 26705 to 27025 | 26705, 26865, 27025 | 3MHz | 16QAM | Full RB |
| | 26715 to 27015 | 26815, 26865, 27015 | 5MHz | 16QAM | Full RB |
| | 26750 to 26990 | 26750, 26865, 26990 | 10MHz | 16QAM | Full RB |
| | 26775 to 26965 | 26775, 26865, 26965 | 15MHz | 16QAM | Full RB |
| BAND EDGE | 26697 to 27033 | 26697, 27033 | 1.4MHz | QPSK, | 1 RB/ 0,5 RB Offes<br>Full RB |
| | 26705 to 27025 | 26705, 27025 | 3MHz | QPSK, | 1 RB/ 0,14 RB Offest<br>Full RB |
| | 26715 to 27015 | 26715, 27015 | 5MHz | QPSK, | 1 RB/ 0,24 RB Offest<br>Full RB |
| | 26750 to 26990 | 26750, 26990 | 10MHz | QPSK, | 1 RB/ 0,49 RB Offest<br>Full RB |
| | 26775 to 26965 | 26775, 26965 | 15MHz | QPSK | 1 RB/ 0,74 RB Offest |
| CONDCUDETED EMISSION | 26697 to 27033 | 26697, 26865, 27033 | 1.4MHz | QPSK, | 1 RB, 0 RB Offest |
| | 26705 to 27025 | 26705, 26865, 27025 | 3MHz | QPSK, | 1 RB, 0 RB Offest |
| | 26715 to 27015 | 26815, 26865, 27015 | 5MHz | QPSK, | 1 RB, 0 RB Offest |
| | 26750 to 26990 | 26750, 26865, 26990 | 10MHz | QPSK, | 1 RB, 0 RB Offest |
| | 26775 to 26965 | 26775, 26865, 26965 | 15MHz | QPSK | 1 RB, 0 RB Offest |
| RADIATED EMISSION | 26775 to 26965 | 26775, 26865, 26965 | 15MHz | 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, | 1 RB/ 0,5 RB Offest |
| | 26705 to 26775 | 26705, 26740, 26775 | 3MHz | QPSK, 16QAM, | 1 RB/ 0,14 RB Offest |
| | 26715 to 26765 | 26715, 26740, 26765 | 5MHz | QPSK, 16QAM, | 1 RB/ 0,24 RB Offest |
| | 26740 | 26740 | 10MHz | QPSK, 16QAM, | 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, | Full RB |
| | 26705 to 26775 | 26705, 26740, 26775 | 3MHz | QPSK, 16QAM, | Full RB |
| | 26715 to 26765 | 26715, 26740, 26765 | 5MHz | QPSK, 16QAM, | Full RB |
| | 26740 | 26740 | 10MHz | QPSK, 16QAM, | Full RB |
| PEAK TO AV-ERAGE 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 |
| EMISSION MASK | 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 |
| CONDCUDETED 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 | 3MHz | 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, | 1 RB/ 0,24 RB Offest |
| | 27710 | 27710 | 10MHz | QPSK, 16QAM, | 1 RB/ 0,49 RB Offest |
| FREQUENCY STA-BILITY | 27710 | 27710 | 10MHz | QPSK, | Full RB |
| OCCUPIED BAND-WIDTH | 27685 to 27735 | 27685, 27710, 27735 | 5MHz | QPSK, 16QAM, | Full RB |
| | 27710 | 27710 | 10MHz | QPSK, 16QAM, | Full RB |
| PEAK TO AVERAGE RATIO | 27685 to 27735 | 27685, 27710, 27735 | 5MHz | 16QAM | Full RB |
| | 27710 | 27710 | 10MHz | 16QAM | 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 |
| CONDCUDETED 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/ 49 RB Offest |

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## LTE Band 38 MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
|---|---|---|---|---|---|
| EIRP | 37775 to 38225 | 37775,38000,38225 | 5MHz | QPSK, 16QAM, | 1 RB/ 0,24 RB Offest |
| | 37800 to 38200 | 37800,38000,38200 | 10MHz | QPSK, 16QAM, | 1 RB/ 0,49 RB Offest |
| | 37825 to 38175 | 37825,38000,38175 | 15MHz | QPSK, 16QAM, | 1 RB/ 0,74 RB Offest |
| | 37850 to 38150 | 37850,38000,38150 | 20MHz | QPSK, 16QAM, | 1 RB/ 0,99 RB Offest |
| FREQUENCY STABILITY | 37800 to 38200 | 37800,38000,38200 | 10MHz | QPSK, | Full RB |
| OCCUPIED BAND-WIDTH | 37775 to 38225 | 37775,38000,38225 | 5MHz | QPSK, 16QAM, | Full RB |
| | 37800 to 38200 | 37800,38000,38200 | 10MHz | QPSK, 16QAM, | Full RB |
| | 37825 to 38175 | 37825,38000,38175 | 15MHz | QPSK, 16QAM, | Full RB |
| | 37850 to 38150 | 37850,38000,38150 | 20MHz | QPSK, 16QAM, | Full RB |
| PEAK TO AVERAGE RATIO | 37775 to 38225 | 37775,38000,38225 | 5MHz | 16QAM | Full RB |
| | 37800 to 38200 | 37800,38000,38200 | 10MHz | 16QAM | Full RB |
| | 37825 to 38175 | 37825,38000,38175 | 15MHz | 16QAM | Full RB |
| | 37850 to 38150 | 37850,38000,38150 | 20MHz | 16QAM | Full RB |
| BAND EDGE | 37775 to 38225 | 37775,38000,38225 | 5MHz | QPSK, | 1 RB/ 0,24 RB Offest<br>Full RB |
| | 37800 to 38200 | 37800,38000,38200 | 10MHz | QPSK, | 1 RB/ 0,49 RB Offest<br>Full RB |
| | 37825 to 38175 | 37825,38000,38175 | 15MHz | QPSK, | 1 RB/ 0,74 RB Offest<br>Full RB |
| | 37850 to 38150 | 37850,38000,38150 | 20MHz | QPSK, | 1 RB/ 0,99 RB Offest<br>Full RB |
| CONDCUDETED EMIS-SION | 37775 to 38225 | 37775,38000,38225 | 5MHz | QPSK, | 1 RB, 0 RB Offest |
| | 37800 to 38200 | 37800,38000,38200 | 10MHz | QPSK, | 1 RB, 0 RB Offest |
| | 37825 to 38175 | 37825,38000,38175 | 15MHz | QPSK, | 1 RB, 0 RB Offest |
| | 37850 to 38150 | 37850,38000,38150 | 20MHz | QPSK, | 1 RB, 0 RB Offest |
| EMISSION MASK | 37775 to 38225 | 37775,38000,38225 | 5MHz | QPSK, | 1 RB/ 0,24 RB Offest<br>25 RB/ 0 Offset |
| | 37800 to 38200 | 37800,38000,38200 | 10MHz | QPSK, | 1 RB/ 0,49 RB Offest<br>50 RB/ 0 Offset |
| | 37825 to 38175 | 37825,38000,38175 | 15MHz | QPSK, | 1 RB/ 0,74 RB Offest<br>75 RB/ 0 Offset |
| | 37850 to 38150 | 37850,38000,38150 | 20MHz | QPSK, | 1 RB/ 0,99 RB Offest<br>100 RB/ 0 Offset |
| RADIATED EMISSION | 37775 to 38225 | 37775,38000,38225 | 5MHz | 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, | 1 RB/ 0,24 RB Offest |
| | 39700 to 41540 | 39700, 40620, 41540 | 10MHz | QPSK, 16QAM, | 1 RB/ 0,49 RB Offest |
| | 39725 to 41515 | 39725, 40620, 41515 | 15MHz | QPSK, 16QAM, | 1 RB/ 0,74 RB Offest |
| | 39750 to 41490 | 39750, 40620, 41490 | 20MHz | QPSK, 16QAM, | 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, | Full RB |
| | 39700 to 41540 | 39700, 40620, 41540 | 10MHz | QPSK, 16QAM, | Full RB |
| | 39725 to 41515 | 39725, 40620, 41515 | 15MHz | QPSK, 16QAM, | Full RB |
| | 39750 to 41490 | 39750, 40620, 41490 | 20MHz | QPSK, 16QAM, | Full RB |
| PEAK TO AVERAGE RATIO | 39675 to 41565 | 39675, 40620, 41565 | 5MHz | 16QAM | Full RB |
| | 39700 to 41540 | 39700, 40620, 41540 | 10MHz | 16QAM | Full RB |
| | 39725 to 41515 | 39725, 40620, 41515 | 15MHz | 16QAM | Full RB |
| | 39750 to 41490 | 39750, 40620, 41490 | 20MHz | 16QAM | 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 |
| CONDCUDETED 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 | QPSK, | 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, | 1 RB/ 0,5 RB Offest |
| | 131987 to 132657 | 131987, 132322, 132657 | 3MHz | QPSK, 16QAM, | 1 RB/ 0,14 RB Offest |
| | 131997 to 132647 | 131997, 132322, 132647 | 5MHz | QPSK, 16QAM, | 1 RB/ 0,24 RB Offest |
| | 132022 to 132622 | 132022, 132322, 132622 | 10MHz | QPSK, 16QAM, | 1 RB/ 0,49 RB Offest |
| | 132047 to 132597 | 132047, 132322, 132597 | 15MHz | QPSK, 16QAM, | 1 RB/ 0,74 RB Offest |
| | 132072 to 132572 | 132072, 132322, 132572 | 20MHz | QPSK, 16QAM, | 1 RB/ 0,99 RB Offest |
| FREQUENCY STA-BILITY | 18650 to 19150 | 18900 | 10MHz | QPSK, | Full RB |
| OCCUPIED BAND-WIDTH | 131979 to 132665 | 131979, 132322, 132665 | 1.4MHz | QPSK, 16QAM, | Full RB |
| | 131987 to 132657 | 131987, 132322, 132657 | 3MHz | QPSK, 16QAM, | Full RB |
| | 131997 to 132647 | 131997, 132322, 132647 | 5MHz | QPSK, 16QAM, | Full RB |
| | 132022 to 132622 | 132022, 132322, 132622 | 10MHz | QPSK, 16QAM, | Full RB |
| | 132047 to 132597 | 132047, 132322, 132597 | 15MHz | QPSK, 16QAM, | Full RB |
| | 132072 to 132572 | 132072, 132322, 132572 | 20MHz | QPSK, 16QAM, | Full RB |
| PEAK TO AVERAGE RATIO | 131979 to 132665 | 131979, 132322, 132665 | 1.4MHz | 16QAM | Full RB |
| | 131987 to 132657 | 131987, 132322, 132657 | 3MHz | 16QAM | Full RB |
| | 131997 to 132647 | 131997, 132322, 132647 | 5MHz | 16QAM | Full RB |
| | 132022 to 132622 | 132022, 132322, 132622 | 10MHz | 16QAM | Full RB |
| | 132047 to 132597 | 132047, 132322, 132597 | 15MHz | 16QAM | Full RB |
| | 132072 to 132572 | 132072, 132322, 132572 | 20MHz | 16QAM | 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 |
| CONDCUDETED 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 | QPSK, | 1 RB, 0 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 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 (Polarization : **Vertical**) | 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 (Polarization : **Horizontal**) | 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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# 6. MAXMUM OUTPUT POWER

## 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.

**ERP/EIRP LIMIT**

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.

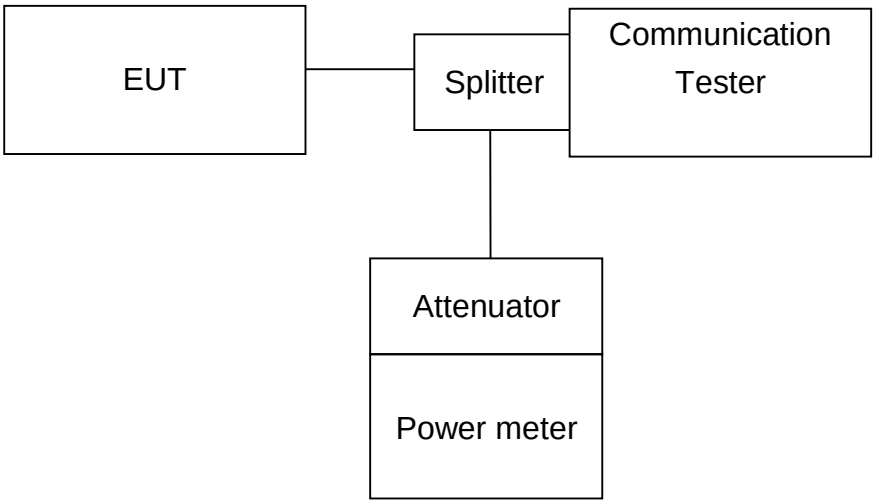
FCC 27.50(c)(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

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

## 6.2. Test Set-up




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

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## 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, (WCDMA/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

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP.

**TEST PROCEDURE**:

ANSI C63.26:2015

KDB 971168 Section 5.6

ERP/EIRP = PMeas + GT-LC

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.2

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

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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 | Agilent | N9010A | MY51440113 | 2018/06/20 | 2019/06/19 |
| Radio Communica-tion Analyer | Anritsu | MT8820C | 6201107337 | 2018/06/15 | 2019/06/14 |
| DC Power Supply | Agilent | E3640A | MY53130054 | 2017/09/04 | 2018/09/03 |
| Attenuator | Marvelous | MVE2213-10 | RF30 | 2017/12/26 | 2018/12/25 |
| Splitter | Woken | DOM35LW1A2 | RF36 | 2017/12/26 | 2018/12/25 |

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## 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:**

**WCDMA/HSUPA/HSDPA Band II Result:**

| EUT Mode | Freq. (MHz) | CH | Conducted Avg. Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| WCDMA | 1852.4 | **9262** | 23.73 | -5.17 | 18.56 | 33.00 | -14.44 |
| | 1880.0 | **9400** | 23.69 | -5.17 | 18.52 | 33.00 | -14.48 |
| | 1907.6 | **9538** | 23.80 | -5.17 | **18.63** | 33.00 | -14.37 |
| HSDPA | 1852.4 | **9262** | 22.82 | -5.17 | 17.65 | 33.00 | -15.35 |
| | 1880.0 | **9400** | 23.13 | -5.17 | **17.96** | 33.00 | -15.04 |
| | 1907.6 | **9538** | 22.92 | -5.17 | 17.75 | 33.00 | -15.25 |
| HSUPA | 1852.4 | **9262** | 22.26 | -5.17 | 17.09 | 33.00 | -15.91 |
| | 1880.0 | **9400** | 22.58 | -5.17 | **17.41** | 33.00 | -15.59 |
| | 1907.6 | **9538** | 22.43 | -5.17 | 17.26 | 33.00 | -15.74 |

**WCDMA/HSUPA/HSDPA Band IV Result:**

| EUT Mode | Freq. (MHz) | CH | Conducted Avg. Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| WCDMA | 1712.4 | 1312 | 23.27 | -4.69 | 18.58 | 30.00 | -11.42 |
| | 1732.6 | 1413 | 23.50 | -4.69 | **18.81** | 30.00 | -11.19 |
| | 1752.6 | 1513 | 23.21 | -4.69 | 18.52 | 30.00 | -11.48 |
| HSDPA | 1712.4 | 1312 | 22.73 | -4.69 | 18.04 | 30.00 | -11.96 |
| | 1732.6 | 1413 | 23.06 | -4.69 | **18.37** | 30.00 | -11.63 |
| | 1752.6 | 1513 | 22.82 | -4.69 | 18.13 | 30.00 | -11.87 |
| HSUPA | 1712.4 | 1312 | 22.18 | -4.69 | 17.49 | 30.00 | -12.51 |
| | 1732.6 | 1413 | 22.53 | -4.69 | **17.84** | 30.00 | -12.16 |
| | 1752.6 | 1513 | 22.31 | -4.69 | 17.62 | 30.00 | -12.38 |

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**WCDMA/HSUPA/HSDPA Band V Result:**

| EUT Mode | Freq. (MHz) | CH | Conducted Avg. Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| WCDMA | 826.4 | 4132 | 23.98 | -3.61 | **20.37** | 38.50 | -18.13 |
| | 836.6 | 4183 | 23.90 | -3.61 | 20.29 | 38.50 | -18.21 |
| | 846.6 | 4233 | 23.93 | -3.61 | 20.32 | 38.50 | -18.18 |
| HSDPA | 826.4 | 4132 | 23.83 | -3.61 | **20.22** | 38.50 | -18.28 |
| | 836.6 | 4183 | 23.66 | -3.61 | 20.05 | 38.50 | -18.45 |
| | 846.6 | 4233 | 23.65 | -3.61 | 20.04 | 38.50 | -18.46 |
| HSUPA | 826.4 | 4132 | 22.65 | -3.61 | **19.04** | 38.50 | -19.46 |
| | 836.6 | 4183 | 22.65 | -3.61 | **19.04** | 38.50 | -19.46 |
| | 846.6 | 4233 | 22.59 | -3.61 | 18.98 | 38.50 | -19.52 |

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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: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

| **Sub-test** | $\beta_c$ | $\beta_d$ | $\beta_d$ ***(SF)*** | $\beta_c/\beta_d$ | $\beta_{HS}$ *(Note1, Note 2)* | **CM (dB)** *(Note 3)* | **MPR (dB)** *(Note 3)* | **RMC (Kbps)** |
|---|---|---|---|---|---|---|---|---|
| 1 | 2/15 | 15/15 | 64 | 2/15 | 4/15 | 0.0 | 0.0 | 12.2 |
| 2 | 12/15 *(Note 4)* | 15/15 *(Note 4)* | 64 | 12/15 *(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.**

**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: β 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)** | $\beta_{ed}$ **(Codes)** | **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 | $\beta_{ed}1$: 47/15<br>$\beta_{ed}2$: 47/15 | 4<br>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.**

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## Results:

| Mode | Sub test | Avg. Power (dBm) Channel | | | Power Class 3 Limitation (dBm) | Comments |
|---|---|---|---|---|---|---|
| | | 9262.00 | 9400.00 | 9538.00 | | |
| HSDPA II | 1 | 22.82 | 23.13 | 22.92 | 20.3dBm – 25.7dBm | Pass |
| | 2 | 21.77 | 22.03 | 21.92 | 20.3dBm – 25.7dBm | Pass |
| | 3 | 21.20 | 21.52 | 21.39 | 19.8dBm – 25.7dBm | Pass |
| | 4 | 21.02 | 21.27 | 21.15 | 19.8dBm – 25.7dBm | Pass |

| Mode | Sub test | Avg. Power (dBm) Channel | | | Power Class 3 Limitation (dBm) | Comments |
|---|---|---|---|---|---|---|
| | | 1312.00 | 1413.00 | 1513.00 | | |
| HSDPA IV | 1 | 22.73 | 23.06 | 22.82 | 20.3dBm – 25.7dBm | Pass |
| | 2 | 21.76 | 22.01 | 21.82 | 20.3dBm – 25.7dBm | Pass |
| | 3 | 21.28 | 21.59 | 21.32 | 19.8dBm – 25.7dBm | Pass |
| | 4 | 21.06 | 21.24 | 21.11 | 19.8dBm – 25.7dBm | Pass |

| Mode | Sub test | Avg. Power (dBm) Channel | | | Power Class 3 Limitation (dBm) | Comments |
|---|---|---|---|---|---|---|
| | | 4132.00 | 4183.00 | 4233.00 | | |
| HSDPA V | 1 | 23.83 | 23.66 | 23.65 | 20.3dBm – 25.7dBm | Pass |
| | 2 | 22.69 | 22.64 | 22.55 | 20.3dBm – 25.7dBm | Pass |
| | 3 | 22.14 | 22.05 | 21.90 | 19.8dBm – 25.7dBm | Pass |
| | 4 | 21.87 | 21.98 | 21.82 | 19.8dBm – 25.7dBm | Pass |

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| Mode | Sub test | Avg. Power (dBm) Channel | | | Power Class 3 Limitation (dBm) | Comments |
|---|---|---|---|---|---|---|
| | | 9262.00 | 9400.00 | 9538.00 | | |
| HSUPA II | 1 | 22.26 | 22.58 | 22.43 | 18.8dBm – 25.7dBm | Pass |
| | 2 | 22.83 | 23.12 | 22.93 | 16.8dBm – 25.7dBm | Pass |
| | 3 | 21.22 | 21.52 | 21.43 | 17.8dBm – 25.7dBm | Pass |
| | 4 | 22.84 | 23.11 | 23.01 | 16.8dBm – 25.7dBm | Pass |
| | 5 | 21.74 | 22.04 | 21.91 | 18.8dBm – 25.7dBm | Pass |

| Mode | Sub test | Avg. Power (dBm) Channel | | | Power Class 3 Limitation (dBm) | Comments |
|---|---|---|---|---|---|---|
| | | 1312.00 | 1413.00 | 1513.00 | | |
| HSDPA IV | 1 | 22.18 | 22.53 | 22.31 | 20.3dBm – 25.7dBm | Pass |
| | 2 | 22.69 | 23.02 | 22.84 | 20.3dBm – 25.7dBm | Pass |
| | 3 | 21.22 | 21.53 | 21.33 | 19.8dBm – 25.7dBm | Pass |
| | 4 | 22.74 | 23.03 | 22.83 | 19.8dBm – 25.7dBm | Pass |
| | 5 | 21.71 | 22.01 | 21.85 | 19.8dBm – 25.7dBm | Pass |

| Mode | Sub test | Avg. Power (dBm) Channel | | | Power Class 3 Limitation (dBm) | Comments |
|---|---|---|---|---|---|---|
| | | 4132.00 | 4183.00 | 4233.00 | | |
| HSUPA V | 1 | 22.65 | 22.65 | 22.59 | 18.8dBm – 25.7dBm | Pass |
| | 2 | 20.36 | 20.28 | 20.25 | 16.8dBm – 25.7dBm | Pass |
| | 3 | 21.08 | 20.98 | 20.96 | 17.8dBm – 25.7dBm | Pass |
| | 4 | 20.61 | 20.49 | 20.47 | 16.8dBm – 25.7dBm | Pass |
| | 5 | 22.73 | 22.67 | 22.52 | 18.8dBm – 25.7dBm | Pass |

**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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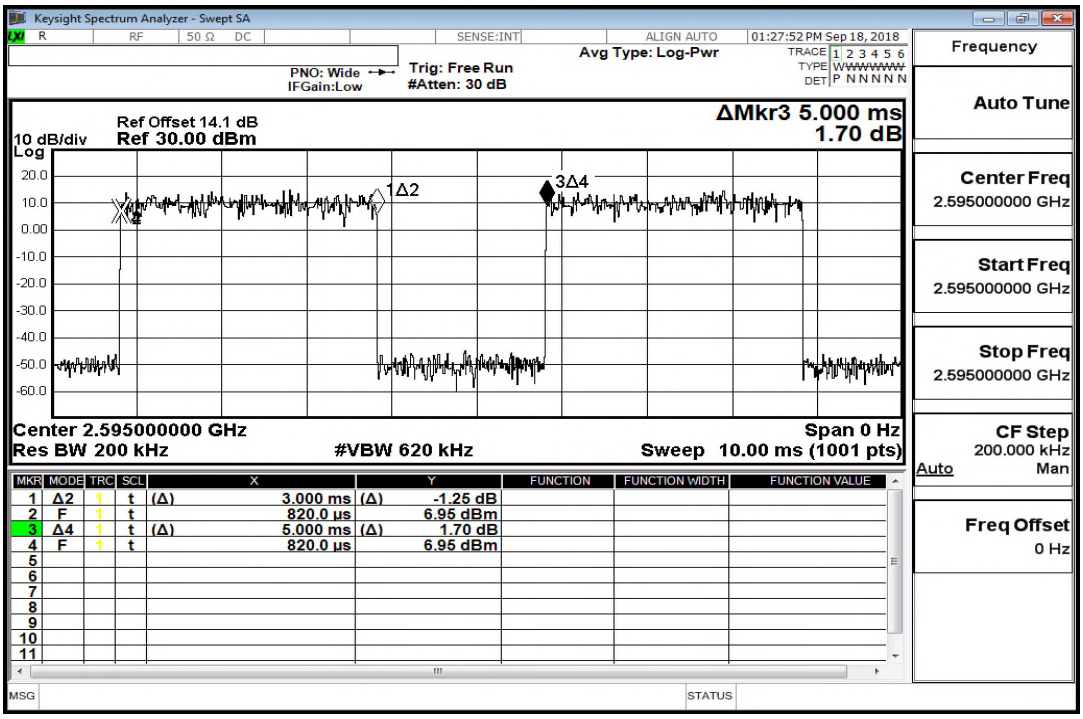
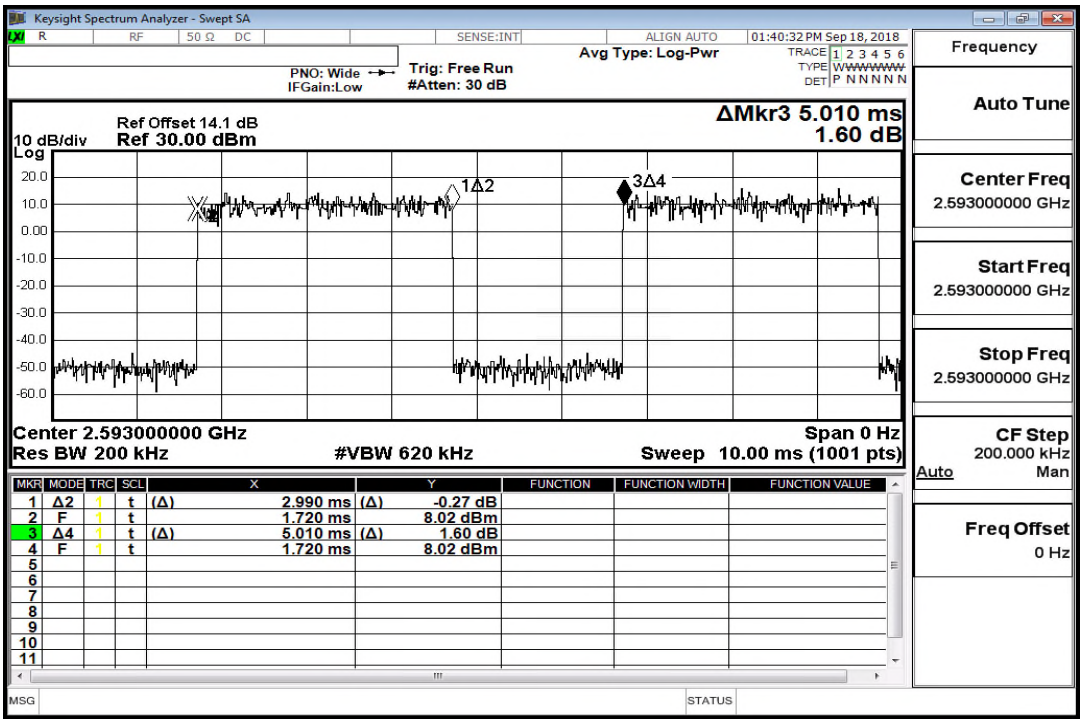
## Duty Cycle:

| | Δ1 | | Δ2 | | Duty Cycle | % |
|---|---|---|---|---|---|---|
| Band38 10M Mid Channel | 3.0000 | ms | 5.0000 | ms | 0.600 | 60.0 % |
| Band41 10M Mid Channel | 2.9900 | ms | 5.0100 | ms | 0.597 | 59.7 % |

## Band38




## Band41

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## LTE Result:

Antenna gain (dBi) -5.17

| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4 | 18607 | 1850.7 | QPSK | 1 | 0 | 23.41 | 18.24 | 33 | -14.76 |
| | | | | 1 | 5 | 23.43 | 18.26 | 33 | -14.74 |
| | | | | 3 | 2 | 23.33 | 18.16 | 33 | -14.84 |
| | | | | 6 | 0 | 22.39 | 17.22 | 33 | -15.78 |
| | 18900 | 1880 | QPSK | 1 | 0 | 23.49 | 18.32 | 33 | -14.68 |
| | | | | 1 | 5 | 23.54 | **18.37** | 33 | -14.63 |
| | | | | 3 | 2 | 23.34 | 18.17 | 33 | -14.83 |
| | | | | 6 | 0 | 22.50 | 17.33 | 33 | -15.67 |
| | 19193 | 1909.3 | QPSK | 1 | 0 | 23.41 | 18.24 | 33 | -14.76 |
| | | | | 1 | 5 | 23.34 | 18.17 | 33 | -14.83 |
| | | | | 3 | 2 | 23.14 | 17.97 | 33 | -15.03 |
| | | | | 6 | 0 | 22.28 | 17.11 | 33 | -15.89 |
| | 18607 | 1850.7 | 16QAM | 1 | 0 | 22.17 | 17.00 | 33 | -16 |
| | | | | 1 | 5 | 22.53 | 17.36 | 33 | -15.64 |
| | | | | 3 | 2 | 22.34 | 17.17 | 33 | -15.83 |
| | | | | 6 | 0 | 21.28 | 16.11 | 33 | -16.89 |
| | 18900 | 1880 | 16QAM | 1 | 0 | 22.21 | 17.04 | 33 | -15.96 |
| | | | | 1 | 5 | 22.30 | 17.13 | 33 | -15.87 |
| | | | | 3 | 2 | 22.55 | **17.38** | 33 | -15.62 |
| | | | | 6 | 0 | 21.40 | 16.23 | 33 | -16.77 |
| | 19193 | 1909.3 | 16QAM | 1 | 0 | 22.10 | 16.93 | 33 | -16.07 |
| | | | | 1 | 5 | 22.43 | 17.26 | 33 | -15.74 |
| | | | | 3 | 2 | 22.19 | 17.02 | 33 | -15.98 |
| | | | | 6 | 0 | 21.29 | 16.12 | 33 | -16.88 |

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Antenna gain (dBi) -5.17

| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3 | 18615 | 1851.5 | QPSK | 1 | 0 | 23.24 | 18.07 | 33 | -14.93 |
| | | | | 1 | 14 | 23.37 | 18.20 | 33 | -14.8 |
| | | | | 8 | 4 | 22.56 | 17.39 | 33 | -15.61 |
| | | | | 15 | 0 | 22.52 | 17.35 | 33 | -15.65 |
| | 18900 | 1880 | QPSK | 1 | 0 | 23.33 | 18.16 | 33 | -14.84 |
| | | | | 1 | 14 | 23.34 | 18.17 | 33 | -14.83 |
| | | | | 8 | 4 | 22.39 | 17.22 | 33 | -15.78 |
| | | | | 15 | 0 | 22.47 | 17.30 | 33 | -15.7 |
| | 19185 | 1908.5 | QPSK | 1 | 0 | 23.53 | **18.36** | 33 | -14.64 |
| | | | | 1 | 14 | 23.11 | 17.94 | 33 | -15.06 |
| | | | | 8 | 4 | 22.38 | 17.21 | 33 | -15.79 |
| | | | | 15 | 0 | 22.42 | 17.25 | 33 | -15.75 |
| | 18615 | 1851.5 | 16QAM | 1 | 0 | 22.73 | 17.56 | 33 | -15.44 |
| | | | | 1 | 14 | 22.54 | 17.37 | 33 | -15.63 |
| | | | | 8 | 4 | 21.52 | 16.35 | 33 | -16.65 |
| | | | | 15 | 0 | 21.44 | 16.27 | 33 | -16.73 |
| | 18900 | 1880 | 16QAM | 1 | 0 | 22.51 | 17.34 | 33 | -15.66 |
| | | | | 1 | 14 | 22.83 | **17.66** | 33 | -15.34 |
| | | | | 8 | 4 | 21.49 | 16.32 | 33 | -16.68 |
| | | | | 15 | 0 | 21.54 | 16.37 | 33 | -16.63 |
| | 19185 | 1908.5 | 16QAM | 1 | 0 | 22.61 | 17.44 | 33 | -15.56 |
| | | | | 1 | 14 | 22.30 | 17.13 | 33 | -15.87 |
| | | | | 8 | 4 | 21.32 | 16.15 | 33 | -16.85 |
| | | | | 15 | 0 | 21.34 | 16.17 | 33 | -16.83 |

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Antenna gain (dBi) -5.17

| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 18625 | 1852.5 | QPSK | 1 | 0 | 23.40 | 18.23 | 33 | -14.77 |
| | | | | 1 | 24 | 23.27 | 18.10 | 33 | -14.9 |
| | | | | 12 | 6 | 22.48 | 17.31 | 33 | -15.69 |
| | | | | 25 | 0 | 22.44 | 17.27 | 33 | -15.73 |
| | 18900 | 1880 | QPSK | 1 | 0 | 23.56 | **18.39** | 33 | -14.61 |
| | | | | 1 | 24 | 23.41 | 18.24 | 33 | -14.76 |
| | | | | 12 | 6 | 22.67 | 17.50 | 33 | -15.5 |
| | | | | 25 | 0 | 22.52 | 17.35 | 33 | -15.65 |
| | 19175 | 1907.5 | QPSK | 1 | 0 | 23.50 | 18.33 | 33 | -14.67 |
| | | | | 1 | 24 | 23.34 | 18.17 | 33 | -14.83 |
| | | | | 12 | 6 | 22.65 | 17.48 | 33 | -15.52 |
| | | | | 25 | 0 | 22.66 | 17.49 | 33 | -15.51 |
| | 18625 | 1852.5 | 16QAM | 1 | 0 | 22.21 | 17.04 | 33 | -15.96 |
| | | | | 1 | 24 | 22.63 | 17.46 | 33 | -15.54 |
| | | | | 12 | 6 | 21.78 | 16.61 | 33 | -16.39 |
| | | | | 25 | 0 | 21.75 | 16.58 | 33 | -16.42 |
| | 18900 | 1880 | 16QAM | 1 | 0 | 22.69 | 17.52 | 33 | -15.48 |
| | | | | 1 | 24 | 22.64 | 17.47 | 33 | -15.53 |
| | | | | 12 | 6 | 21.63 | 16.46 | 33 | -16.54 |
| | | | | 25 | 0 | 21.58 | 16.41 | 33 | -16.59 |
| | 19175 | 1907.5 | 16QAM | 1 | 0 | 22.92 | **17.75** | 33 | -15.25 |
| | | | | 1 | 24 | 22.40 | 17.23 | 33 | -15.77 |
| | | | | 12 | 6 | 21.56 | 16.39 | 33 | -16.61 |
| | | | | 25 | 0 | 21.63 | 16.46 | 33 | -16.54 |

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Antenna gain (dBi) -5.17

| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 18650 | 1855 | QPSK | 1 | 0 | 23.53 | 18.36 | 33 | -14.64 |
| | | | | 1 | 49 | 23.43 | 18.26 | 33 | -14.74 |
| | | | | 25 | 12 | 22.39 | 17.22 | 33 | -15.78 |
| | | | | 50 | 0 | 22.45 | 17.28 | 33 | -15.72 |
| | 18900 | 1880 | QPSK | 1 | 0 | **23.71** | **18.54** | 33 | -14.46 |
| | | | | 1 | 49 | 23.45 | 18.28 | 33 | -14.72 |
| | | | | 25 | 12 | 22.56 | 17.39 | 33 | -15.61 |
| | | | | 50 | 0 | 22.41 | 17.24 | 33 | -15.76 |
| | 19150 | 1905 | QPSK | 1 | 0 | 23.49 | 18.32 | 33 | -14.68 |
| | | | | 1 | 49 | 22.95 | 17.78 | 33 | -15.22 |
| | | | | 25 | 12 | 22.55 | 17.38 | 33 | -15.62 |
| | | | | 50 | 0 | 22.54 | 17.37 | 33 | -15.63 |
| | 18650 | 1855 | 16QAM | 1 | 0 | 22.95 | **17.78** | 33 | -15.22 |
| | | | | 1 | 49 | 22.63 | 17.46 | 33 | -15.54 |
| | | | | 25 | 12 | 21.49 | 16.32 | 33 | -16.68 |
| | | | | 50 | 0 | 21.44 | 16.27 | 33 | -16.73 |
| | 18900 | 1880 | 16QAM | 1 | 0 | 22.66 | 17.49 | 33 | -15.51 |
| | | | | 1 | 49 | 22.66 | 17.49 | 33 | -15.51 |
| | | | | 25 | 12 | 21.71 | 16.54 | 33 | -16.46 |
| | | | | 50 | 0 | 21.57 | 16.40 | 33 | -16.6 |
| | 19150 | 1905 | 16QAM | 1 | 0 | 22.76 | 17.59 | 33 | -15.41 |
| | | | | 1 | 49 | 22.39 | 17.22 | 33 | -15.78 |
| | | | | 25 | 12 | 21.69 | 16.52 | 33 | -16.48 |
| | | | | 50 | 0 | 21.58 | 16.41 | 33 | -16.59 |

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Antenna gain (dBi) -5.17

| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15 | 18675 | 1857.5 | QPSK | 1 | 0 | 23.46 | 18.29 | 33 | -14.71 |
| | | | | 1 | 74 | 23.49 | **18.32** | 33 | -14.68 |
| | | | | 36 | 18 | 22.47 | 17.30 | 33 | -15.7 |
| | | | | 75 | 0 | 22.48 | 17.31 | 33 | -15.69 |
| | 18900 | 1880 | QPSK | 1 | 0 | 23.38 | 18.21 | 33 | -14.79 |
| | | | | 1 | 74 | 23.42 | 18.25 | 33 | -14.75 |
| | | | | 36 | 18 | 22.54 | 17.37 | 33 | -15.63 |
| | | | | 75 | 0 | 22.51 | 17.34 | 33 | -15.66 |
| | 19125 | 1902.5 | QPSK | 1 | 0 | 23.49 | **18.32** | 33 | -14.68 |
| | | | | 1 | 74 | 23.22 | 18.05 | 33 | -14.95 |
| | | | | 36 | 18 | 22.62 | 17.45 | 33 | -15.55 |
| | | | | 75 | 0 | 22.64 | 17.47 | 33 | -15.53 |
| | 18675 | 1857.5 | 16QAM | 1 | 0 | 22.81 | 17.64 | 33 | -15.36 |
| | | | | 1 | 74 | 22.85 | 17.68 | 33 | -15.32 |
| | | | | 36 | 18 | 21.58 | 16.41 | 33 | -16.59 |
| | | | | 75 | 0 | 21.59 | 16.42 | 33 | -16.58 |
| | 18900 | 1880 | 16QAM | 1 | 0 | 22.59 | 17.42 | 33 | -15.58 |
| | | | | 1 | 74 | 22.90 | **17.73** | 33 | -15.27 |
| | | | | 36 | 18 | 21.50 | 16.33 | 33 | -16.67 |
| | | | | 75 | 0 | 21.38 | 16.21 | 33 | -16.79 |
| | 19125 | 1902.5 | 16QAM | 1 | 0 | 22.50 | 17.33 | 33 | -15.67 |
| | | | | 1 | 74 | 22.83 | 17.66 | 33 | -15.34 |
| | | | | 36 | 18 | 21.64 | 16.47 | 33 | -16.53 |
| | | | | 75 | 0 | 21.72 | 16.55 | 33 | -16.45 |

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Antenna gain (dBi) -5.17

| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20 | 18700 | 1860 | QPSK | 1 | 0 | 23.70 | **18.53** | 33 | -14.47 |
| | | | | 1 | 99 | 23.56 | 18.39 | 33 | -14.61 |
| | | | | 50 | 25 | 22.47 | 17.30 | 33 | -15.7 |
| | | | | 100 | 0 | 22.52 | 17.35 | 33 | -15.65 |
| | 18900 | 1880 | QPSK | 1 | 0 | 23.66 | 18.49 | 33 | -14.51 |
| | | | | 1 | 99 | 23.54 | 18.37 | 33 | -14.63 |
| | | | | 50 | 25 | 22.56 | 17.39 | 33 | -15.61 |
| | | | | 100 | 0 | 22.62 | 17.45 | 33 | -15.55 |
| | 19100 | 1900 | QPSK | 1 | 0 | 23.50 | 18.33 | 33 | -14.67 |
| | | | | 1 | 99 | 23.34 | 18.17 | 33 | -14.83 |
| | | | | 50 | 25 | 22.57 | 17.40 | 33 | -15.6 |
| | | | | 100 | 0 | 22.71 | 17.54 | 33 | -15.46 |
| | 18700 | 1860 | 16QAM | 1 | 0 | 22.47 | 17.30 | 33 | -15.7 |
| | | | | 1 | 99 | 22.75 | **17.58** | 33 | -15.42 |
| | | | | 50 | 25 | 21.50 | 16.33 | 33 | -16.67 |
| | | | | 100 | 0 | 21.42 | 16.25 | 33 | -16.75 |
| | 18900 | 1880 | 16QAM | 1 | 0 | 22.67 | 17.50 | 33 | -15.5 |
| | | | | 1 | 99 | 22.45 | 17.28 | 33 | -15.72 |
| | | | | 50 | 25 | 21.48 | 16.31 | 33 | -16.69 |
| | | | | 100 | 0 | 21.62 | 16.45 | 33 | -16.55 |
| | 19100 | 1900 | 16QAM | 1 | 0 | 22.51 | 17.34 | 33 | -15.66 |
| | | | | 1 | 99 | 22.40 | 17.23 | 33 | -15.77 |
| | | | | 50 | 25 | 21.59 | 16.42 | 33 | -16.58 |
| | | | | 100 | 0 | 21.66 | 16.49 | 33 | -16.51 |

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Antenna gain (dBi) -4.69

| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4 | 19957 | 1710.7 | QPSK | 1 | 0 | 23.41 | 18.72 | 30 | -11.28 |
| | | | | 1 | 5 | 23.31 | 18.62 | 30 | -11.38 |
| | | | | 3 | 2 | 23.21 | 18.52 | 30 | -11.48 |
| | | | | 6 | 0 | 22.29 | 17.60 | 30 | -12.4 |
| | 20175 | 1732.5 | QPSK | 1 | 0 | 23.34 | 18.65 | 30 | -11.35 |
| | | | | 1 | 5 | 23.51 | 18.82 | 30 | -11.18 |
| | | | | 3 | 2 | 23.34 | 18.65 | 30 | -11.35 |
| | | | | 6 | 0 | 22.39 | 17.70 | 30 | -12.3 |
| | 20393 | 1754.3 | QPSK | 1 | 0 | 23.60 | 18.91 | 30 | -11.09 |
| | | | | 1 | 5 | 23.64 | **18.95** | 30 | -11.05 |
| | | | | 3 | 2 | 23.64 | **18.95** | 30 | -11.05 |
| | | | | 6 | 0 | 22.64 | 17.95 | 30 | -12.05 |
| | 19957 | 1710.7 | 16QAM | 1 | 0 | 22.94 | **18.25** | 30 | -11.75 |
| | | | | 1 | 5 | 22.53 | 17.84 | 30 | -12.16 |
| | | | | 3 | 2 | 22.33 | 17.64 | 30 | -12.36 |
| | | | | 6 | 0 | 21.55 | 16.86 | 30 | -13.14 |
| | 20175 | 1732.5 | 16QAM | 1 | 0 | 22.32 | 17.63 | 30 | -12.37 |
| | | | | 1 | 5 | 22.30 | 17.61 | 30 | -12.39 |
| | | | | 3 | 2 | 22.49 | 17.80 | 30 | -12.2 |
| | | | | 6 | 0 | 21.43 | 16.74 | 30 | -13.26 |
| | 20393 | 1754.3 | 16QAM | 1 | 0 | 22.53 | 17.84 | 30 | -12.16 |
| | | | | 1 | 5 | 22.51 | 17.82 | 30 | -12.18 |
| | | | | 3 | 2 | 22.81 | 18.12 | 30 | -11.88 |
| | | | | 6 | 0 | 21.72 | 17.03 | 30 | -12.97 |

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Antenna gain (dBi) -4.69

| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3 | 19965 | 1711.5 | QPSK | 1 | 0 | 23.19 | 18.50 | 30 | -11.5 |
| | | | | 1 | 14 | 23.25 | 18.56 | 30 | -11.44 |
| | | | | 8 | 4 | 22.17 | 17.48 | 30 | -12.52 |
| | | | | 15 | 0 | 22.25 | 17.56 | 30 | -12.44 |
| | 20175 | 1732.5 | QPSK | 1 | 0 | 23.26 | 18.57 | 30 | -11.43 |
| | | | | 1 | 14 | 23.34 | 18.65 | 30 | -11.35 |
| | | | | 8 | 4 | 22.26 | 17.57 | 30 | -12.43 |
| | | | | 15 | 0 | 22.25 | 17.56 | 30 | -12.44 |
| | 20385 | 1753.5 | QPSK | 1 | 0 | 23.47 | **18.78** | 30 | -11.22 |
| | | | | 1 | 14 | 23.44 | 18.75 | 30 | -11.25 |
| | | | | 8 | 4 | 22.56 | 17.87 | 30 | -12.13 |
| | | | | 15 | 0 | 22.48 | 17.79 | 30 | -12.21 |
| | 19965 | 1711.5 | 16QAM | 1 | 0 | 22.32 | 17.63 | 30 | -12.37 |
| | | | | 1 | 14 | 22.87 | 18.18 | 30 | -11.82 |
| | | | | 8 | 4 | 21.29 | 16.60 | 30 | -13.4 |
| | | | | 15 | 0 | 21.25 | 16.56 | 30 | -13.44 |
| | 20175 | 1732.5 | 16QAM | 1 | 0 | 22.86 | 18.17 | 30 | -11.83 |
| | | | | 1 | 14 | 22.48 | 17.79 | 30 | -12.21 |
| | | | | 8 | 4 | 21.29 | 16.60 | 30 | -13.4 |
| | | | | 15 | 0 | 21.34 | 16.65 | 30 | -13.35 |
| | 20385 | 1753.5 | 16QAM | 1 | 0 | 22.83 | 18.14 | 30 | -11.86 |
| | | | | 1 | 14 | 22.88 | **18.19** | 30 | -11.81 |
| | | | | 8 | 4 | 21.68 | 16.99 | 30 | -13.01 |
| | | | | 15 | 0 | 21.58 | 16.89 | 30 | -13.11 |

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Antenna gain (dBi) -4.69

| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 19975 | 1712.5 | QPSK | 1 | 0 | 23.42 | 18.73 | 30 | -11.27 |
| | | | | 1 | 24 | 23.47 | 18.78 | 30 | -11.22 |
| | | | | 12 | 6 | 22.45 | 17.76 | 30 | -12.24 |
| | | | | 25 | 0 | 22.51 | 17.82 | 30 | -12.18 |
| | 20175 | 1732.5 | QPSK | 1 | 0 | 23.46 | 18.77 | 30 | -11.23 |
| | | | | 1 | 24 | 23.54 | **18.85** | 30 | -11.15 |
| | | | | 12 | 6 | 22.44 | 17.75 | 30 | -12.25 |
| | | | | 25 | 0 | 22.50 | 17.81 | 30 | -12.19 |
| | 20375 | 1752.5 | QPSK | 1 | 0 | 23.49 | 18.80 | 30 | -11.2 |
| | | | | 1 | 24 | 23.53 | 18.84 | 30 | -11.16 |
| | | | | 12 | 6 | 22.63 | 17.94 | 30 | -12.06 |
| | | | | 25 | 0 | 22.57 | 17.88 | 30 | -12.12 |
| | 19975 | 1712.5 | 16QAM | 1 | 0 | 22.68 | 17.99 | 30 | -12.01 |
| | | | | 1 | 24 | 22.95 | **18.26** | 30 | -11.74 |
| | | | | 12 | 6 | 21.71 | 17.02 | 30 | -12.98 |
| | | | | 25 | 0 | 21.67 | 16.98 | 30 | -13.02 |
| | 20175 | 1732.5 | 16QAM | 1 | 0 | 22.58 | 17.89 | 30 | -12.11 |
| | | | | 1 | 24 | 22.69 | 18.00 | 30 | -12 |
| | | | | 12 | 6 | 21.55 | 16.86 | 30 | -13.14 |
| | | | | 25 | 0 | 21.49 | 16.80 | 30 | -13.2 |
| | 20375 | 1752.5 | 16QAM | 1 | 0 | 22.53 | 17.84 | 30 | -12.16 |
| | | | | 1 | 24 | 22.70 | 18.01 | 30 | -11.99 |
| | | | | 12 | 6 | 21.73 | 17.04 | 30 | -12.96 |
| | | | | 25 | 0 | 21.67 | 16.98 | 30 | -13.02 |

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Antenna gain (dBi) -4.69

| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 20000 | 1715 | QPSK | 1 | 0 | 23.32 | 18.63 | 30 | -11.37 |
| | | | | 1 | 49 | 23.42 | 18.73 | 30 | -11.27 |
| | | | | 25 | 12 | 22.45 | 17.76 | 30 | -12.24 |
| | | | | 50 | 0 | 22.48 | 17.79 | 30 | -12.21 |
| | 20175 | 1732.5 | QPSK | 1 | 0 | 23.51 | 18.82 | 30 | -11.18 |
| | | | | 1 | 49 | 23.53 | 18.84 | 30 | -11.16 |
| | | | | 25 | 12 | 22.43 | 17.74 | 30 | -12.26 |
| | | | | 50 | 0 | 22.42 | 17.73 | 30 | -12.27 |
| | 20375 | 1750 | QPSK | 1 | 0 | 23.57 | **18.88** | 30 | -11.12 |
| | | | | 1 | 49 | 23.52 | 18.83 | 30 | -11.17 |
| | | | | 25 | 12 | 22.60 | 17.91 | 30 | -12.09 |
| | | | | 50 | 0 | 22.59 | 17.90 | 30 | -12.1 |
| | 20000 | 1715 | 16QAM | 1 | 0 | 22.94 | **18.25** | 30 | -11.75 |
| | | | | 1 | 49 | 22.73 | 18.04 | 30 | -11.96 |
| | | | | 25 | 12 | 21.53 | 16.84 | 30 | -13.16 |
| | | | | 50 | 0 | 21.52 | 16.83 | 30 | -13.17 |
| | 20175 | 1732.5 | 16QAM | 1 | 0 | 22.64 | 17.95 | 30 | -12.05 |
| | | | | 1 | 49 | 22.46 | 17.77 | 30 | -12.23 |
| | | | | 25 | 12 | 21.55 | 16.86 | 30 | -13.14 |
| | | | | 50 | 0 | 21.46 | 16.77 | 30 | -13.23 |
| | 20375 | 1750 | 16QAM | 1 | 0 | 22.89 | 18.20 | 30 | -11.8 |
| | | | | 1 | 49 | 22.75 | 18.06 | 30 | -11.94 |
| | | | | 25 | 12 | 21.81 | 17.12 | 30 | -12.88 |
| | | | | 50 | 0 | 21.64 | 16.95 | 30 | -13.05 |

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Antenna gain (dBi) -4.69

| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15 | 20025 | 1717.5 | QPSK | 1 | 0 | 23.36 | 18.67 | 30 | -11.33 |
| | | | | 1 | 74 | 23.49 | 18.80 | 30 | -11.2 |
| | | | | 36 | 18 | 22.42 | 17.73 | 30 | -12.27 |
| | | | | 75 | 0 | 22.46 | 17.77 | 30 | -12.23 |
| | 20175 | 1732.5 | QPSK | 1 | 0 | 23.45 | 18.76 | 30 | -11.24 |
| | | | | 1 | 74 | 23.41 | 18.72 | 30 | -11.28 |
| | | | | 36 | 18 | 22.39 | 17.70 | 30 | -12.3 |
| | | | | 75 | 0 | 22.43 | 17.74 | 30 | -12.26 |
| | 20325 | 1747.5 | QPSK | 1 | 0 | 23.44 | 18.75 | 30 | -11.25 |
| | | | | 1 | 74 | 23.52 | **18.83** | 30 | -11.17 |
| | | | | 36 | 18 | 22.62 | 17.93 | 30 | -12.07 |
| | | | | 75 | 0 | 22.59 | 17.90 | 30 | -12.1 |
| | 20025 | 1717.5 | 16QAM | 1 | 0 | 22.42 | 17.73 | 30 | -12.27 |
| | | | | 1 | 74 | 22.69 | 18.00 | 30 | -12 |
| | | | | 36 | 18 | 21.50 | 16.81 | 30 | -13.19 |
| | | | | 75 | 0 | 21.53 | 16.84 | 30 | -13.16 |
| | 20175 | 1732.5 | 16QAM | 1 | 0 | 22.80 | 18.11 | 30 | -11.89 |
| | | | | 1 | 74 | 22.81 | 18.12 | 30 | -11.88 |
| | | | | 36 | 18 | 21.55 | 16.86 | 30 | -13.14 |
| | | | | 75 | 0 | 21.55 | 16.86 | 30 | -13.14 |
| | 20325 | 1747.5 | 16QAM | 1 | 0 | 22.95 | **18.26** | 30 | -11.74 |
| | | | | 1 | 74 | 22.66 | 17.97 | 30 | -12.03 |
| | | | | 36 | 18 | 21.60 | 16.91 | 30 | -13.09 |
| | | | | 75 | 0 | 21.60 | 16.91 | 30 | -13.09 |

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Antenna gain (dBi) -4.69

| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20 | 20050 | 1720 | QPSK | 1 | 0 | 23.34 | 18.65 | 30 | -11.35 |
| | | | | 1 | 99 | 23.22 | 18.53 | 30 | -11.47 |
| | | | | 50 | 25 | 22.31 | 17.62 | 30 | -12.38 |
| | | | | 100 | 0 | 22.30 | 17.61 | 30 | -12.39 |
| | 20175 | 1732.5 | QPSK | 1 | 0 | 23.17 | 18.48 | 30 | -11.52 |
| | | | | 1 | 99 | **23.65** | **18.96** | 30 | -11.04 |
| | | | | 50 | 25 | 22.38 | 17.69 | 30 | -12.31 |
| | | | | 100 | 0 | 22.39 | 17.70 | 30 | -12.3 |
| | 20300 | 1745 | QPSK | 1 | 0 | 23.50 | 18.81 | 30 | -11.19 |
| | | | | 1 | 99 | 23.56 | 18.87 | 30 | -11.13 |
| | | | | 50 | 25 | 22.46 | 17.77 | 30 | -12.23 |
| | | | | 100 | 0 | 22.49 | 17.80 | 30 | -12.2 |
| | 20050 | 1720 | 16QAM | 1 | 0 | 22.61 | 17.92 | 30 | -12.08 |
| | | | | 1 | 99 | 22.57 | 17.88 | 30 | -12.12 |
| | | | | 50 | 25 | 21.29 | 16.60 | 30 | -13.4 |
| | | | | 100 | 0 | 21.32 | 16.63 | 30 | -13.37 |
| | 20175 | 1732.5 | 16QAM | 1 | 0 | 22.74 | 18.05 | 30 | -11.95 |
| | | | | 1 | 99 | 22.54 | 17.85 | 30 | -12.15 |
| | | | | 50 | 25 | 21.39 | 16.70 | 30 | -13.3 |
| | | | | 100 | 0 | 21.50 | 16.81 | 30 | -13.19 |
| | 20300 | 1745 | 16QAM | 1 | 0 | 22.78 | **18.09** | 30 | -11.91 |
| | | | | 1 | 99 | 22.61 | 17.92 | 30 | -12.08 |
| | | | | 50 | 25 | 21.55 | 16.86 | 30 | -13.14 |
| | | | | 100 | 0 | 21.56 | 16.87 | 30 | -13.13 |

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Antenna gain (dBi) -3.61

| LTE Band 5_Uplink frequency band : 824 to 849 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4 | 20407 | 824.7 | QPSK | 1 | 0 | 24.62 | 21.01 | 38.45 | -17.44 |
| | | | | 1 | 5 | 24.54 | 20.93 | 38.45 | -17.52 |
| | | | | 3 | 2 | 24.61 | 21.00 | 38.45 | -17.45 |
| | | | | 6 | 0 | 23.65 | 20.04 | 38.45 | -18.41 |
| | 20525 | 836.5 | QPSK | 1 | 0 | 24.66 | **21.05** | 38.45 | -17.4 |
| | | | | 1 | 5 | 24.50 | 20.89 | 38.45 | -17.56 |
| | | | | 3 | 2 | 24.60 | 20.99 | 38.45 | -17.46 |
| | | | | 6 | 0 | 23.57 | 19.96 | 38.45 | -18.49 |
| | 20643 | 848.3 | QPSK | 1 | 0 | 24.33 | 20.72 | 38.45 | -17.73 |
| | | | | 1 | 5 | 24.05 | 20.44 | 38.45 | -18.01 |
| | | | | 3 | 2 | 24.22 | 20.61 | 38.45 | -17.84 |
| | | | | 6 | 0 | 23.36 | 19.75 | 38.45 | -18.7 |
| | 20407 | 824.7 | 16QAM | 1 | 0 | 23.56 | 19.95 | 38.45 | -18.5 |
| | | | | 1 | 5 | 23.81 | 20.20 | 38.45 | -18.25 |
| | | | | 3 | 2 | 23.76 | 20.15 | 38.45 | -18.3 |
| | | | | 6 | 0 | 22.67 | 19.06 | 38.45 | -19.39 |
| | 20525 | 836.5 | 16QAM | 1 | 0 | 23.59 | 19.98 | 38.45 | -18.47 |
| | | | | 1 | 5 | 23.64 | 20.03 | 38.45 | -18.42 |
| | | | | 3 | 2 | 23.64 | 20.03 | 38.45 | -18.42 |
| | | | | 6 | 0 | 22.62 | 19.01 | 38.45 | -19.44 |
| | 20643 | 848.3 | 16QAM | 1 | 0 | 23.56 | 19.95 | 38.45 | -18.5 |
| | | | | 1 | 5 | 23.84 | **20.23** | 38.45 | -18.22 |
| | | | | 3 | 2 | 23.47 | 19.86 | 38.45 | -18.59 |
| | | | | 6 | 0 | 22.17 | 18.56 | 38.45 | -19.89 |

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Antenna gain (dBi) -3.61

| LTE Band 5_Uplink frequency band : 824 to 849 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3 | 20415 | 825.5 | QPSK | 1 | 0 | 24.57 | 20.96 | 38.45 | -17.49 |
| | | | | 1 | 14 | 24.54 | 20.93 | 38.45 | -17.52 |
| | | | | 8 | 4 | 23.67 | 20.06 | 38.45 | -18.39 |
| | | | | 15 | 0 | 23.61 | 20.00 | 38.45 | -18.45 |
| | 20525 | 836.5 | QPSK | 1 | 0 | 24.63 | **21.02** | 38.45 | -17.43 |
| | | | | 1 | 14 | 24.63 | **21.02** | 38.45 | -17.43 |
| | | | | 8 | 4 | 23.72 | 20.11 | 38.45 | -18.34 |
| | | | | 15 | 0 | 23.64 | 20.03 | 38.45 | -18.42 |
| | 20635 | 847.5 | QPSK | 1 | 0 | 24.38 | 20.77 | 38.45 | -17.68 |
| | | | | 1 | 14 | 24.42 | 20.81 | 38.45 | -17.64 |
| | | | | 8 | 4 | 23.36 | 19.75 | 38.45 | -18.7 |
| | | | | 15 | 0 | 23.52 | 19.91 | 38.45 | -18.54 |
| | 20415 | 825.5 | 16QAM | 1 | 0 | 23.80 | 20.19 | 38.45 | -18.26 |
| | | | | 1 | 14 | 23.81 | **20.20** | 38.45 | -18.25 |
| | | | | 8 | 4 | 22.67 | 19.06 | 38.45 | -19.39 |
| | | | | 15 | 0 | 22.71 | 19.10 | 38.45 | -19.35 |
| | 20525 | 836.5 | 16QAM | 1 | 0 | 23.76 | 20.15 | 38.45 | -18.3 |
| | | | | 1 | 14 | 23.54 | 19.93 | 38.45 | -18.52 |
| | | | | 8 | 4 | 22.54 | 18.93 | 38.45 | -19.52 |
| | | | | 15 | 0 | 22.68 | 19.07 | 38.45 | -19.38 |
| | 20635 | 847.5 | 16QAM | 1 | 0 | 23.52 | 19.91 | 38.45 | -18.54 |
| | | | | 1 | 14 | 23.39 | 19.78 | 38.45 | -18.67 |
| | | | | 8 | 4 | 22.36 | 18.75 | 38.45 | -19.7 |
| | | | | 15 | 0 | 22.41 | 18.80 | 38.45 | -19.65 |

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Antenna gain (dBi) -3.61

| LTE Band 5_Uplink frequency band : 824 to 849 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 20425 | 826.5 | QPSK | 1 | 0 | 24.73 | 21.12 | 38.45 | -17.33 |
| | | | | 1 | 24 | **24.92** | **21.31** | 38.45 | -17.14 |
| | | | | 12 | 6 | 23.78 | 20.17 | 38.45 | -18.28 |
| | | | | 25 | 0 | 23.80 | 20.19 | 38.45 | -18.26 |
| | 20525 | 836.5 | QPSK | 1 | 0 | 24.57 | 20.96 | 38.45 | -17.49 |
| | | | | 1 | 24 | 24.61 | 21.00 | 38.45 | -17.45 |
| | | | | 12 | 6 | 23.83 | 20.22 | 38.45 | -18.23 |
| | | | | 25 | 0 | 23.83 | 20.22 | 38.45 | -18.23 |
| | 20625 | 846.5 | QPSK | 1 | 0 | 24.34 | 20.73 | 38.45 | -17.72 |
| | | | | 1 | 24 | 24.32 | 20.71 | 38.45 | -17.74 |
| | | | | 12 | 6 | 23.57 | 19.96 | 38.45 | -18.49 |
| | | | | 25 | 0 | 23.59 | 19.98 | 38.45 | -18.47 |
| | 20425 | 826.5 | 16QAM | 1 | 0 | 23.76 | 20.15 | 38.45 | -18.3 |
| | | | | 1 | 24 | 23.18 | 19.57 | 38.45 | -18.88 |
| | | | | 12 | 6 | 22.79 | 19.18 | 38.45 | -19.27 |
| | | | | 25 | 0 | 22.71 | 19.10 | 38.45 | -19.35 |
| | 20525 | 836.5 | 16QAM | 1 | 0 | 23.33 | 19.72 | 38.45 | -18.73 |
| | | | | 1 | 24 | 23.94 | **20.33** | 38.45 | -18.12 |
| | | | | 12 | 6 | 22.94 | 19.33 | 38.45 | -19.12 |
| | | | | 25 | 0 | 22.85 | 19.24 | 38.45 | -19.21 |
| | 20625 | 846.5 | 16QAM | 1 | 0 | 23.64 | 20.03 | 38.45 | -18.42 |
| | | | | 1 | 24 | 23.52 | 19.91 | 38.45 | -18.54 |
| | | | | 12 | 6 | 22.73 | 19.12 | 38.45 | -19.33 |
| | | | | 25 | 0 | 22.69 | 19.08 | 38.45 | -19.37 |

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Antenna gain (dBi) -3.61

| LTE Band 5_Uplink frequency band : 824 to 849 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 20450 | 829 | QPSK | 1 | 0 | 24.67 | 21.06 | 38.45 | -17.39 |
| | | | | 1 | 49 | 24.69 | **21.08** | 38.45 | -17.37 |
| | | | | 25 | 12 | 23.71 | 20.10 | 38.45 | -18.35 |
| | | | | 50 | 0 | 23.70 | 20.09 | 38.45 | -18.36 |
| | 20525 | 836.5 | QPSK | 1 | 0 | 24.62 | 21.01 | 38.45 | -17.44 |
| | | | | 1 | 49 | 24.66 | 21.05 | 38.45 | -17.4 |
| | | | | 25 | 12 | 23.78 | 20.17 | 38.45 | -18.28 |
| | | | | 50 | 0 | 23.78 | 20.17 | 38.45 | -18.28 |
| | 20600 | 844 | QPSK | 1 | 0 | 24.35 | 20.74 | 38.45 | -17.71 |
| | | | | 1 | 49 | 24.57 | 20.96 | 38.45 | -17.49 |
| | | | | 25 | 12 | 23.57 | 19.96 | 38.45 | -18.49 |
| | | | | 50 | 0 | 23.63 | 20.02 | 38.45 | -18.43 |
| | 20450 | 829 | 16QAM | 1 | 0 | 23.99 | **20.38** | 38.45 | -18.07 |
| | | | | 1 | 49 | 23.73 | 20.12 | 38.45 | -18.33 |
| | | | | 25 | 12 | 22.86 | 19.25 | 38.45 | -19.2 |
| | | | | 50 | 0 | 22.69 | 19.08 | 38.45 | -19.37 |
| | 20525 | 836.5 | 16QAM | 1 | 0 | 23.94 | 20.33 | 38.45 | -18.12 |
| | | | | 1 | 49 | 23.89 | 20.28 | 38.45 | -18.17 |
| | | | | 25 | 12 | 22.73 | 19.12 | 38.45 | -19.33 |
| | | | | 50 | 0 | 22.73 | 19.12 | 38.45 | -19.33 |
| | 20600 | 844 | 16QAM | 1 | 0 | 23.42 | 19.81 | 38.45 | -18.64 |
| | | | | 1 | 49 | 23.88 | 20.27 | 38.45 | -18.18 |
| | | | | 25 | 12 | 22.61 | 19.00 | 38.45 | -19.45 |
| | | | | 50 | 0 | 22.68 | 19.07 | 38.45 | -19.38 |

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Antenna gain (dBi) -4.62

| LTE Band 7_Uplink frequency band : 2500 to 2570 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 20775 | 2502.5 | QPSK | 1 | 0 | 23.88 | **19.26** | 33 | -13.74 |
| | | | | 1 | 24 | 23.80 | 19.18 | 33 | -13.82 |
| | | | | 12 | 6 | 22.96 | 18.34 | 33 | -14.66 |
| | | | | 25 | 0 | 22.73 | 18.11 | 33 | -14.89 |
| | 21100 | 2535 | QPSK | 1 | 0 | 23.31 | 18.69 | 33 | -14.31 |
| | | | | 1 | 24 | 23.16 | 18.54 | 33 | -14.46 |
| | | | | 12 | 6 | 22.16 | 17.54 | 33 | -15.46 |
| | | | | 25 | 0 | 22.15 | 17.53 | 33 | -15.47 |
| | 21375 | 2567.5 | QPSK | 1 | 0 | 23.69 | 19.07 | 33 | -13.93 |
| | | | | 1 | 24 | 23.49 | 18.87 | 33 | -14.13 |
| | | | | 12 | 6 | 22.55 | 17.93 | 33 | -15.07 |
| | | | | 25 | 0 | 22.57 | 17.95 | 33 | -15.05 |
| | 20775 | 2502.5 | 16QAM | 1 | 0 | 22.70 | 18.08 | 33 | -14.92 |
| | | | | 1 | 24 | 22.28 | 17.66 | 33 | -15.34 |
| | | | | 12 | 6 | 21.96 | 17.34 | 33 | -15.66 |
| | | | | 25 | 0 | 21.91 | 17.29 | 33 | -15.71 |
| | 21100 | 2535 | 16QAM | 1 | 0 | 22.19 | 17.57 | 33 | -15.43 |
| | | | | 1 | 24 | 22.35 | 17.73 | 33 | -15.27 |
| | | | | 12 | 6 | 21.11 | 16.49 | 33 | -16.51 |
| | | | | 25 | 0 | 21.18 | 16.56 | 33 | -16.44 |
| | 21375 | 2567.5 | 16QAM | 1 | 0 | 22.84 | **18.22** | 33 | -14.78 |
| | | | | 1 | 24 | 22.02 | 17.40 | 33 | -15.6 |
| | | | | 12 | 6 | 21.61 | 16.99 | 33 | -16.01 |
| | | | | 25 | 0 | 21.53 | 16.91 | 33 | -16.09 |

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Antenna gain (dBi) -4.62

| LTE Band 7_Uplink frequency band : 2500 to 2570 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 20800 | 2505 | QPSK | 1 | 0 | 23.67 | 19.05 | 33 | -13.95 |
| | | | | 1 | 49 | 23.69 | **19.07** | 33 | -13.93 |
| | | | | 25 | 12 | 22.14 | 17.52 | 33 | -15.48 |
| | | | | 50 | 0 | 22.18 | 17.56 | 33 | -15.44 |
| | 21100 | 2535 | QPSK | 1 | 0 | 23.22 | 18.60 | 33 | -14.4 |
| | | | | 1 | 49 | 23.24 | 18.62 | 33 | -14.38 |
| | | | | 25 | 12 | 22.37 | 17.75 | 33 | -15.25 |
| | | | | 50 | 0 | 22.34 | 17.72 | 33 | -15.28 |
| | 21350 | 2565 | QPSK | 1 | 0 | 23.47 | 18.85 | 33 | -14.15 |
| | | | | 1 | 49 | 23.52 | 18.90 | 33 | -14.1 |
| | | | | 25 | 12 | 22.76 | 18.14 | 33 | -14.86 |
| | | | | 50 | 0 | 22.75 | 18.13 | 33 | -14.87 |
| | 20800 | 2505 | 16QAM | 1 | 0 | 22.81 | 18.19 | 33 | -14.81 |
| | | | | 1 | 49 | 22.33 | 17.71 | 33 | -15.29 |
| | | | | 25 | 12 | 21.25 | 16.63 | 33 | -16.37 |
| | | | | 50 | 0 | 21.10 | 16.48 | 33 | -16.52 |
| | 21100 | 2535 | 16QAM | 1 | 0 | 22.55 | 17.93 | 33 | -15.07 |
| | | | | 1 | 49 | 22.66 | 18.04 | 33 | -14.96 |
| | | | | 25 | 12 | 21.43 | 16.81 | 33 | -16.19 |
| | | | | 50 | 0 | 21.44 | 16.82 | 33 | -16.18 |
| | 21350 | 2565 | 16QAM | 1 | 0 | 22.96 | **18.34** | 33 | -14.66 |
| | | | | 1 | 49 | 22.86 | 18.24 | 33 | -14.76 |
| | | | | 25 | 12 | 21.78 | 17.16 | 33 | -15.84 |
| | | | | 50 | 0 | 21.74 | 17.12 | 33 | -15.88 |

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Antenna gain (dBi) -4.62

| LTE Band 7_Uplink frequency band : 2500 to 2570 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15 | 20825 | 2507.5 | QPSK | 1 | 0 | 23.97 | **19.35** | 33 | -13.65 |
| | | | | 1 | 74 | 23.70 | 19.08 | 33 | -13.92 |
| | | | | 36 | 18 | 22.21 | 17.59 | 33 | -15.41 |
| | | | | 75 | 0 | 22.25 | 17.63 | 33 | -15.37 |
| | 21100 | 2535 | QPSK | 1 | 0 | 23.22 | 18.60 | 33 | -14.4 |
| | | | | 1 | 74 | 23.50 | 18.88 | 33 | -14.12 |
| | | | | 36 | 18 | 22.45 | 17.83 | 33 | -15.17 |
| | | | | 75 | 0 | 22.43 | 17.81 | 33 | -15.19 |
| | 21375 | 2562.5 | QPSK | 1 | 0 | 23.87 | 19.25 | 33 | -13.75 |
| | | | | 1 | 74 | 23.61 | 18.99 | 33 | -14.01 |
| | | | | 36 | 18 | 22.84 | 18.22 | 33 | -14.78 |
| | | | | 75 | 0 | 22.88 | 18.26 | 33 | -14.74 |
| | 20825 | 2507.5 | 16QAM | 1 | 0 | 22.82 | **18.20** | 33 | -14.8 |
| | | | | 1 | 74 | 22.46 | 17.84 | 33 | -15.16 |
| | | | | 36 | 18 | 21.19 | 16.57 | 33 | -16.43 |
| | | | | 75 | 0 | 21.22 | 16.60 | 33 | -16.4 |
| | 21100 | 2535 | 16QAM | 1 | 0 | 22.30 | 17.68 | 33 | -15.32 |
| | | | | 1 | 74 | 22.71 | 18.09 | 33 | -14.91 |
| | | | | 36 | 18 | 21.54 | 16.92 | 33 | -16.08 |
| | | | | 75 | 0 | 21.44 | 16.82 | 33 | -16.18 |
| | 21375 | 2562.5 | 16QAM | 1 | 0 | 22.20 | 17.58 | 33 | -15.42 |
| | | | | 1 | 74 | 22.22 | 17.60 | 33 | -15.4 |
| | | | | 36 | 18 | 21.80 | 17.18 | 33 | -15.82 |
| | | | | 75 | 0 | 21.83 | 17.21 | 33 | -15.79 |

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Antenna gain (dBi) -4.62

| LTE Band 7_Uplink frequency band : 2500 to 2570 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20 | 20850 | 2510 | QPSK | 1 | 0 | 23.79 | 19.17 | 33 | -13.83 |
| | | | | 1 | 99 | 23.36 | 18.74 | 33 | -14.26 |
| | | | | 50 | 25 | 22.95 | 18.33 | 33 | -14.67 |
| | | | | 100 | 0 | 22.52 | 17.90 | 33 | -15.1 |
| | 21100 | 2535 | QPSK | 1 | 0 | 23.14 | 18.52 | 33 | -14.48 |
| | | | | 1 | 99 | 23.42 | 18.80 | 33 | -14.2 |
| | | | | 50 | 25 | 22.45 | 17.83 | 33 | -15.17 |
| | | | | 100 | 0 | 22.48 | 17.86 | 33 | -15.14 |
| | 21350 | 2560 | QPSK | 1 | 0 | **23.98** | **19.36** | 33 | -13.64 |
| | | | | 1 | 99 | 23.85 | 19.23 | 33 | -13.77 |
| | | | | 50 | 25 | 22.95 | 18.33 | 33 | -14.67 |
| | | | | 100 | 0 | 22.56 | 17.94 | 33 | -15.06 |
| | 20850 | 2510 | 16QAM | 1 | 0 | 22.95 | **18.33** | 33 | -14.67 |
| | | | | 1 | 99 | 22.36 | 17.74 | 33 | -15.26 |
| | | | | 50 | 25 | 21.97 | 17.35 | 33 | -15.65 |
| | | | | 100 | 0 | 21.12 | 16.50 | 33 | -16.5 |
| | 21100 | 2535 | 16QAM | 1 | 0 | 22.50 | 17.88 | 33 | -15.12 |
| | | | | 1 | 99 | 22.95 | **18.33** | 33 | -14.67 |
| | | | | 50 | 25 | 21.53 | 16.91 | 33 | -16.09 |
| | | | | 100 | 0 | 21.57 | 16.95 | 33 | -16.05 |
| | 21350 | 2560 | 16QAM | 1 | 0 | 22.02 | 17.40 | 33 | -15.6 |
| | | | | 1 | 99 | 22.73 | 18.11 | 33 | -14.89 |
| | | | | 50 | 25 | 21.94 | 17.32 | 33 | -15.68 |
| | | | | 100 | 0 | 21.01 | 16.39 | 33 | -16.61 |

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Antenna gain (dBi) -5.57

| LTE Band 12_Uplink frequency band : 699 to 716 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4 | 23017 | 699.7 | QPSK | 1 | 0 | 23.31 | 17.74 | 34.77 | -17.03 |
| | | | | 1 | 5 | 23.43 | 17.86 | 34.77 | -16.91 |
| | | | | 3 | 2 | 23.32 | 17.75 | 34.77 | -17.02 |
| | | | | 6 | 0 | 22.35 | 16.78 | 34.77 | -17.99 |
| | 23095 | 707.5 | QPSK | 1 | 0 | 23.92 | 18.35 | 34.77 | -16.42 |
| | | | | 1 | 5 | 23.75 | 18.18 | 34.77 | -16.59 |
| | | | | 3 | 2 | 23.73 | 18.16 | 34.77 | -16.61 |
| | | | | 6 | 0 | 22.78 | 17.21 | 34.77 | -17.56 |
| | 23173 | 715.5 | QPSK | 1 | 0 | 23.92 | 18.35 | 34.77 | -16.42 |
| | | | | 1 | 5 | 23.65 | 18.08 | 34.77 | -16.69 |
| | | | | 3 | 2 | **24.00** | **18.43** | 34.77 | -16.34 |
| | | | | 6 | 0 | 22.64 | 17.07 | 34.77 | -17.7 |
| | 23017 | 699.7 | 16QAM | 1 | 0 | 22.56 | 16.99 | 34.77 | -17.78 |
| | | | | 1 | 5 | 22.63 | 17.06 | 34.77 | -17.71 |
| | | | | 3 | 2 | 22.31 | 16.74 | 34.77 | -18.03 |
| | | | | 6 | 0 | 21.32 | 15.75 | 34.77 | -19.02 |
| | 23095 | 707.5 | 16QAM | 1 | 0 | 22.89 | 17.32 | 34.77 | -17.45 |
| | | | | 1 | 5 | 22.95 | **17.38** | 34.77 | -17.39 |
| | | | | 3 | 2 | 22.77 | 17.20 | 34.77 | -17.57 |
| | | | | 6 | 0 | 21.70 | 16.13 | 34.77 | -18.64 |
| | 23173 | 715.5 | 16QAM | 1 | 0 | 22.83 | 17.26 | 34.77 | -17.51 |
| | | | | 1 | 5 | 22.41 | 16.84 | 34.77 | -17.93 |
| | | | | 3 | 2 | 22.92 | 17.35 | 34.77 | -17.42 |
| | | | | 6 | 0 | 21.43 | 15.86 | 34.77 | -18.91 |

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Antenna gain (dBi) -5.57

| LTE Band 12_Uplink frequency band : 699 to 716 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3 | 23025 | 700.5 | QPSK | 1 | 0 | 23.24 | 17.67 | 34.77 | -17.1 |
| | | | | 1 | 14 | 23.41 | 17.84 | 34.77 | -16.93 |
| | | | | 8 | 4 | 22.38 | 16.81 | 34.77 | -17.96 |
| | | | | 15 | 0 | 22.37 | 16.80 | 34.77 | -17.97 |
| | 23095 | 707.5 | QPSK | 1 | 0 | 23.60 | 18.03 | 34.77 | -16.74 |
| | | | | 1 | 14 | 23.70 | 18.13 | 34.77 | -16.64 |
| | | | | 8 | 4 | 22.68 | 17.11 | 34.77 | -17.66 |
| | | | | 15 | 0 | 22.80 | 17.23 | 34.77 | -17.54 |
| | 23165 | 714.5 | QPSK | 1 | 0 | 23.67 | 18.10 | 34.77 | -16.67 |
| | | | | 1 | 14 | 23.71 | **18.14** | 34.77 | -16.63 |
| | | | | 8 | 4 | 22.52 | 16.95 | 34.77 | -17.82 |
| | | | | 15 | 0 | 22.57 | 17.00 | 34.77 | -17.77 |
| | 23025 | 700.5 | 16QAM | 1 | 0 | 22.45 | 16.88 | 34.77 | -17.89 |
| | | | | 1 | 14 | 22.36 | 16.79 | 34.77 | -17.98 |
| | | | | 8 | 4 | 21.49 | 15.92 | 34.77 | -18.85 |
| | | | | 15 | 0 | 21.40 | 15.83 | 34.77 | -18.94 |
| | 23095 | 707.5 | 16QAM | 1 | 0 | 22.73 | **17.16** | 34.77 | -17.61 |
| | | | | 1 | 14 | 22.47 | 16.90 | 34.77 | -17.87 |
| | | | | 8 | 4 | 21.82 | 16.25 | 34.77 | -18.52 |
| | | | | 15 | 0 | 21.86 | 16.29 | 34.77 | -18.48 |
| | 23165 | 714.5 | 16QAM | 1 | 0 | 22.41 | 16.84 | 34.77 | -17.93 |
| | | | | 1 | 14 | 22.34 | 16.77 | 34.77 | -18 |
| | | | | 8 | 4 | 21.42 | 15.85 | 34.77 | -18.92 |
| | | | | 15 | 0 | 21.96 | 16.39 | 34.77 | -18.38 |

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Antenna gain (dBi) -5.57

| LTE Band 12_Uplink frequency band : 699 to 716 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 23035 | 701.5 | QPSK | 1 | 0 | 23.21 | 17.64 | 34.77 | -17.13 |
| | | | | 1 | 24 | 23.72 | 18.15 | 34.77 | -16.62 |
| | | | | 12 | 6 | 22.61 | 17.04 | 34.77 | -17.73 |
| | | | | 25 | 0 | 22.70 | 17.13 | 34.77 | -17.64 |
| | 23095 | 707.5 | QPSK | 1 | 0 | 23.72 | 18.15 | 34.77 | -16.62 |
| | | | | 1 | 24 | 23.85 | 18.28 | 34.77 | -16.49 |
| | | | | 12 | 6 | 22.89 | 17.32 | 34.77 | -17.45 |
| | | | | 25 | 0 | 22.89 | 17.32 | 34.77 | -17.45 |
| | 23155 | 713.5 | QPSK | 1 | 0 | 23.96 | **18.39** | 34.77 | -16.38 |
| | | | | 1 | 24 | 23.54 | 17.97 | 34.77 | -16.8 |
| | | | | 12 | 6 | 22.86 | 17.29 | 34.77 | -17.48 |
| | | | | 25 | 0 | 22.65 | 17.08 | 34.77 | -17.69 |
| | 23035 | 701.5 | 16QAM | 1 | 0 | 22.37 | 16.80 | 34.77 | -17.97 |
| | | | | 1 | 24 | 22.90 | 17.33 | 34.77 | -17.44 |
| | | | | 12 | 6 | 21.75 | 16.18 | 34.77 | -18.59 |
| | | | | 25 | 0 | 21.73 | 16.16 | 34.77 | -18.61 |
| | 23095 | 707.5 | 16QAM | 1 | 0 | 22.61 | 17.04 | 34.77 | -17.73 |
| | | | | 1 | 24 | 22.97 | **17.40** | 34.77 | -17.37 |
| | | | | 12 | 6 | 22.00 | 16.43 | 34.77 | -18.34 |
| | | | | 25 | 0 | 21.88 | 16.31 | 34.77 | -18.46 |
| | 23155 | 713.5 | 16QAM | 1 | 0 | 22.45 | 16.88 | 34.77 | -17.89 |
| | | | | 1 | 24 | 22.31 | 16.74 | 34.77 | -18.03 |
| | | | | 12 | 6 | 21.53 | 15.96 | 34.77 | -18.81 |
| | | | | 25 | 0 | 21.68 | 16.11 | 34.77 | -18.66 |

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Antenna gain (dBi) -5.57

| LTE Band 12_Uplink frequency band : 699 to 716 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 23060 | 704 | QPSK | 1 | 0 | 23.58 | 18.01 | 34.77 | -16.76 |
| | | | | 1 | 49 | 23.83 | **18.26** | 34.77 | -16.51 |
| | | | | 25 | 12 | 22.87 | 17.30 | 34.77 | -17.47 |
| | | | | 50 | 0 | 22.90 | 17.33 | 34.77 | -17.44 |
| | 23095 | 707.5 | QPSK | 1 | 0 | 23.59 | 18.02 | 34.77 | -16.75 |
| | | | | 1 | 49 | 23.61 | 18.04 | 34.77 | -16.73 |
| | | | | 25 | 12 | 22.87 | 17.30 | 34.77 | -17.47 |
| | | | | 50 | 0 | 22.85 | 17.28 | 34.77 | -17.49 |
| | 23130 | 711 | QPSK | 1 | 0 | 23.68 | 18.11 | 34.77 | -16.66 |
| | | | | 1 | 49 | 23.42 | 17.85 | 34.77 | -16.92 |
| | | | | 25 | 12 | 22.75 | 17.18 | 34.77 | -17.59 |
| | | | | 50 | 0 | 22.62 | 17.05 | 34.77 | -17.72 |
| | 23060 | 704 | 16QAM | 1 | 0 | 22.80 | 17.23 | 34.77 | -17.54 |
| | | | | 1 | 49 | 22.46 | 16.89 | 34.77 | -17.88 |
| | | | | 25 | 12 | 21.81 | 16.24 | 34.77 | -18.53 |
| | | | | 50 | 0 | 21.85 | 16.28 | 34.77 | -18.49 |
| | 23095 | 707.5 | 16QAM | 1 | 0 | 22.73 | 17.16 | 34.77 | -17.61 |
| | | | | 1 | 49 | 22.99 | **17.42** | 34.77 | -17.35 |
| | | | | 25 | 12 | 21.92 | 16.35 | 34.77 | -18.42 |
| | | | | 50 | 0 | 21.94 | 16.37 | 34.77 | -18.4 |
| | 23130 | 711 | 16QAM | 1 | 0 | 22.75 | 17.18 | 34.77 | -17.59 |
| | | | | 1 | 49 | 22.61 | 17.04 | 34.77 | -17.73 |
| | | | | 25 | 12 | 21.22 | 15.65 | 34.77 | -19.12 |
| | | | | 50 | 0 | 21.72 | 16.15 | 34.77 | -18.62 |

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Antenna gain (dBi) -5.71

| LTE Band 13_Uplink frequency band : 777 to 787 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 23205 | 779.5 | QPSK | 1 | 0 | 23.61 | 17.90 | 34.77 | -16.87 |
| | | | | 1 | 24 | 23.83 | 18.12 | 34.77 | -16.65 |
| | | | | 12 | 6 | 22.60 | 16.89 | 34.77 | -17.88 |
| | | | | 25 | 0 | 22.66 | 16.95 | 34.77 | -17.82 |
| | 23230 | 782 | QPSK | 1 | 0 | 23.58 | 17.87 | 34.77 | -16.9 |
| | | | | 1 | 24 | 23.71 | 18.00 | 34.77 | -16.77 |
| | | | | 12 | 6 | 22.68 | 16.97 | 34.77 | -17.8 |
| | | | | 25 | 0 | 22.71 | 17.00 | 34.77 | -17.77 |
| | 23255 | 784.5 | QPSK | 1 | 0 | 23.81 | 18.10 | 34.77 | -16.67 |
| | | | | 1 | 24 | **23.88** | **18.17** | 34.77 | -16.6 |
| | | | | 12 | 6 | 22.82 | 17.11 | 34.77 | -17.66 |
| | | | | 25 | 0 | 22.82 | 17.11 | 34.77 | -17.66 |
| | 23205 | 779.5 | 16QAM | 1 | 0 | 22.97 | **17.26** | 34.77 | -17.51 |
| | | | | 1 | 24 | 22.93 | 17.22 | 34.77 | -17.55 |
| | | | | 12 | 6 | 21.69 | 15.98 | 34.77 | -18.79 |
| | | | | 25 | 0 | 21.63 | 15.92 | 34.77 | -18.85 |
| | 23230 | 782 | 16QAM | 1 | 0 | 22.81 | 17.10 | 34.77 | -17.67 |
| | | | | 1 | 24 | 22.36 | 16.65 | 34.77 | -18.12 |
| | | | | 12 | 6 | 21.67 | 15.96 | 34.77 | -18.81 |
| | | | | 25 | 0 | 21.76 | 16.05 | 34.77 | -18.72 |
| | 23255 | 784.5 | 16QAM | 1 | 0 | 22.78 | 17.07 | 34.77 | -17.7 |
| | | | | 1 | 24 | 22.42 | 16.71 | 34.77 | -18.06 |
| | | | | 12 | 6 | 21.89 | 16.18 | 34.77 | -18.59 |
| | | | | 25 | 0 | 21.89 | 16.18 | 34.77 | -18.59 |

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Antenna gain (dBi) -5.71

| LTE Band 13_Uplink frequency band : 777 to 787 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 23230 | 782 | QPSK | 1 | 0 | 23.77 | **18.06** | 34.77 | -16.71 |
| | | | | 1 | 49 | 23.45 | 17.74 | 34.77 | -17.03 |
| | | | | 25 | 12 | 22.95 | 17.24 | 34.77 | -17.53 |
| | | | | 50 | 0 | 22.97 | 17.26 | 34.77 | -17.51 |
| | 23230 | 782 | 16QAM | 1 | 0 | 22.45 | 16.74 | 34.77 | -18.03 |
| | | | | 1 | 49 | 22.70 | **16.99** | 34.77 | -17.78 |
| | | | | 25 | 12 | 21.52 | 15.81 | 34.77 | -18.96 |
| | | | | 50 | 0 | 21.99 | 16.28 | 34.77 | -18.49 |

Antenna gain (dBi) -5.58

| LTE Band 14_Uplink frequency band : 788 to 798 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 23305 | 790.5 | QPSK | 1 | 0 | 23.62 | 17.91 | 34.77 | -16.86 |
| | | | | 1 | 24 | 23.66 | **17.95** | 34.77 | -16.82 |
| | | | | 12 | 6 | 22.52 | 16.81 | 34.77 | -17.96 |
| | | | | 25 | 0 | 22.69 | 16.98 | 34.77 | -17.79 |
| | 23330 | 793 | QPSK | 1 | 0 | 23.52 | 17.81 | 34.77 | -16.96 |
| | | | | 1 | 24 | 23.51 | 17.80 | 34.77 | -16.97 |
| | | | | 12 | 6 | 22.63 | 16.92 | 34.77 | -17.85 |
| | | | | 25 | 0 | 22.72 | 17.01 | 34.77 | -17.76 |
| | 23355 | 795.5 | QPSK | 1 | 0 | 23.47 | 17.76 | 34.77 | -17.01 |
| | | | | 1 | 24 | 22.58 | 16.87 | 34.77 | -17.9 |
| | | | | 12 | 6 | 22.60 | 16.89 | 34.77 | -17.88 |
| | | | | 25 | 0 | 22.81 | 17.10 | 34.77 | -17.67 |
| | 23305 | 790.5 | 16QAM | 1 | 0 | 22.72 | 17.01 | 34.77 | -17.76 |
| | | | | 1 | 24 | 22.84 | 17.13 | 34.77 | -17.64 |
| | | | | 12 | 6 | 21.54 | 15.83 | 34.77 | -18.94 |
| | | | | 25 | 0 | 21.65 | 15.94 | 34.77 | -18.83 |
| | 23330 | 793 | 16QAM | 1 | 0 | 22.92 | **17.21** | 34.77 | -17.56 |
| | | | | 1 | 24 | 22.81 | 17.10 | 34.77 | -17.67 |
| | | | | 12 | 6 | 21.83 | 16.12 | 34.77 | -18.65 |
| | | | | 25 | 0 | 21.69 | 15.98 | 34.77 | -18.79 |
| | 23355 | 795.5 | 16QAM | 1 | 0 | 22.64 | 16.93 | 34.77 | -17.84 |
| | | | | 1 | 24 | 21.61 | 15.90 | 34.77 | -18.87 |
| | | | | 12 | 6 | 21.54 | 15.83 | 34.77 | -18.94 |
| | | | | 25 | 0 | 21.73 | 16.02 | 34.77 | -18.75 |

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Antenna gain (dBi) -5.58

| LTE Band 14_Uplink frequency band : 788 to 798 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 23330 | 793 | QPSK | 1 | 0 | **23.97** | **18.26** | 34.77 | -16.51 |
| | | | | 1 | 49 | 23.61 | 17.90 | 34.77 | -16.87 |
| | | | | 25 | 12 | 22.76 | 17.05 | 34.77 | -17.72 |
| | | | | 50 | 0 | 22.77 | 17.06 | 34.77 | -17.71 |
| | 23330 | 793 | 16QAM | 1 | 0 | 22.98 | **17.27** | 34.77 | -17.5 |
| | | | | 1 | 49 | 22.49 | 16.78 | 34.77 | -17.99 |
| | | | | 25 | 12 | 21.75 | 16.04 | 34.77 | -18.73 |
| | | | | 50 | 0 | 21.73 | 16.02 | 34.77 | -18.75 |

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Antenna gain (dBi) -5.57

| LTE Band 17_Uplink frequency band : 704 to 716 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 23755 | 706.5 | QPSK | 1 | 0 | 23.57 | 18.00 | 34.77 | -16.77 |
| | | | | 1 | 24 | 23.74 | 18.17 | 34.77 | -16.6 |
| | | | | 12 | 6 | 22.73 | 17.16 | 34.77 | -17.61 |
| | | | | 25 | 0 | 22.82 | 17.25 | 34.77 | -17.52 |
| | 23790 | 710 | QPSK | 1 | 0 | 23.96 | **18.39** | 34.77 | -16.38 |
| | | | | 1 | 24 | 23.81 | 18.24 | 34.77 | -16.53 |
| | | | | 12 | 6 | 22.70 | 17.13 | 34.77 | -17.64 |
| | | | | 25 | 0 | 22.41 | 16.84 | 34.77 | -17.93 |
| | 23825 | 713.5 | QPSK | 1 | 0 | 23.69 | 18.12 | 34.77 | -16.65 |
| | | | | 1 | 24 | 22.91 | 17.34 | 34.77 | -17.43 |
| | | | | 12 | 6 | 22.87 | 17.30 | 34.77 | -17.47 |
| | | | | 25 | 0 | 22.67 | 17.10 | 34.77 | -17.67 |
| | 23755 | 706.5 | 16QAM | 1 | 0 | 22.54 | 16.97 | 34.77 | -17.8 |
| | | | | 1 | 24 | 22.97 | **17.40** | 34.77 | -17.37 |
| | | | | 12 | 6 | 21.99 | 16.42 | 34.77 | -18.35 |
| | | | | 25 | 0 | 21.63 | 16.06 | 34.77 | -18.71 |
| | 23790 | 710 | 16QAM | 1 | 0 | 22.37 | 16.80 | 34.77 | -17.97 |
| | | | | 1 | 24 | 22.43 | 16.86 | 34.77 | -17.91 |
| | | | | 12 | 6 | 21.52 | 15.95 | 34.77 | -18.82 |
| | | | | 25 | 0 | 21.77 | 16.20 | 34.77 | -18.57 |
| | 23825 | 713.5 | 16QAM | 1 | 0 | 22.84 | 17.27 | 34.77 | -17.5 |
| | | | | 1 | 24 | 21.78 | 16.21 | 34.77 | -18.56 |
| | | | | 12 | 6 | 21.84 | 16.27 | 34.77 | -18.5 |
| | | | | 25 | 0 | 21.45 | 15.88 | 34.77 | -18.89 |

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Antenna gain (dBi) -5.57

| LTE Band 17_Uplink frequency band : 704 to 716 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 23780 | 709 | QPSK | 1 | 0 | 23.69 | 18.12 | 34.77 | -16.65 |
| | | | | 1 | 49 | 23.84 | 18.27 | 34.77 | -16.5 |
| | | | | 25 | 12 | 22.90 | 17.33 | 34.77 | -17.44 |
| | | | | 50 | 0 | 22.75 | 17.18 | 34.77 | -17.59 |
| | 23790 | 710 | QPSK | 1 | 0 | 23.66 | 18.09 | 34.77 | -16.68 |
| | | | | 1 | 49 | 23.77 | 18.20 | 34.77 | -16.57 |
| | | | | 25 | 12 | 22.38 | 16.81 | 34.77 | -17.96 |
| | | | | 50 | 0 | 22.85 | 17.28 | 34.77 | -17.49 |
| | 23800 | 711 | QPSK | 1 | 0 | **23.98** | **18.41** | 34.77 | -16.36 |
| | | | | 1 | 49 | 22.84 | 17.27 | 34.77 | -17.5 |
| | | | | 25 | 12 | 22.47 | 16.90 | 34.77 | -17.87 |
| | | | | 50 | 0 | 22.97 | 17.40 | 34.77 | -17.37 |
| | 23780 | 709 | 16QAM | 1 | 0 | 22.80 | 17.23 | 34.77 | -17.54 |
| | | | | 1 | 49 | 22.58 | 17.01 | 34.77 | -17.76 |
| | | | | 25 | 12 | 21.83 | 16.26 | 34.77 | -18.51 |
| | | | | 50 | 0 | 21.75 | 16.18 | 34.77 | -18.59 |
| | 23790 | 710 | 16QAM | 1 | 0 | 22.84 | 17.27 | 34.77 | -17.5 |
| | | | | 1 | 49 | 22.64 | 17.07 | 34.77 | -17.7 |
| | | | | 25 | 12 | 21.77 | 16.20 | 34.77 | -18.57 |
| | | | | 50 | 0 | 21.42 | 15.85 | 34.77 | -18.92 |
| | 23800 | 711 | 16QAM | 1 | 0 | 22.90 | **17.33** | 34.77 | -17.44 |
| | | | | 1 | 49 | 21.86 | 16.29 | 34.77 | -18.48 |
| | | | | 25 | 12 | 21.56 | 15.99 | 34.77 | -18.78 |
| | | | | 50 | 0 | 21.64 | 16.07 | 34.77 | -18.7 |

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Antenna gain (dBi) -5.17

| LTE Band 25_Uplink frequency band : 1850 to 1915 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4 | 26047 | 1850.7 | QPSK | 1 | 0 | 23.85 | 18.68 | 33 | -14.32 |
| | | | | 1 | 5 | 23.83 | 18.66 | 33 | -14.34 |
| | | | | 3 | 2 | 23.90 | 18.73 | 33 | -14.27 |
| | | | | 6 | 0 | 22.94 | 17.77 | 33 | -15.23 |
| | 26365 | 1882.5 | QPSK | 1 | 0 | **23.95** | 18.78 | 33 | -14.22 |
| | | | | 1 | 5 | **23.95** | 18.78 | 33 | -14.22 |
| | | | | 3 | 2 | 23.92 | 18.75 | 33 | -14.25 |
| | | | | 6 | 0 | 22.96 | 17.79 | 33 | -15.21 |
| | 26683 | 1914.3 | QPSK | 1 | 0 | 23.83 | 18.66 | 33 | -14.34 |
| | | | | 1 | 5 | 23.87 | 18.70 | 33 | -14.3 |
| | | | | 3 | 2 | 23.79 | 18.62 | 33 | -14.38 |
| | | | | 6 | 0 | 22.92 | 17.75 | 33 | -15.25 |
| | 26047 | 1850.7 | 16QAM | 1 | 0 | 22.93 | 17.76 | 33 | -15.24 |
| | | | | 1 | 5 | 22.88 | 17.71 | 33 | -15.29 |
| | | | | 3 | 2 | 22.93 | 17.76 | 33 | -15.24 |
| | | | | 6 | 0 | 21.89 | 16.72 | 33 | -16.28 |
| | 26365 | 1882.5 | 16QAM | 1 | 0 | 22.81 | 17.64 | 33 | -15.36 |
| | | | | 1 | 5 | 22.87 | 17.70 | 33 | -15.3 |
| | | | | 3 | 2 | 22.83 | 17.66 | 33 | -15.34 |
| | | | | 6 | 0 | 21.81 | 16.64 | 33 | -16.36 |
| | 26683 | 1914.3 | 16QAM | 1 | 0 | 22.94 | 17.77 | 33 | -15.23 |
| | | | | 1 | 5 | 22.91 | 17.74 | 33 | -15.26 |
| | | | | 3 | 2 | **22.98** | 17.81 | 33 | -15.19 |
| | | | | 6 | 0 | 21.84 | 16.67 | 33 | -16.33 |

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| Antenna gain (dBi) | -5.17 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **LTE Band 25_Uplink frequency band : 1850 to 1915 MHz** | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3 | 26055 | 1851.5 | QPSK | 1 | 0 | 23.83 | 18.66 | 33 | -14.34 |
| | | | | 1 | 14 | 23.87 | 18.70 | 33 | -14.3 |
| | | | | 8 | 4 | 22.90 | 17.73 | 33 | -15.27 |
| | | | | 15 | 0 | 22.96 | 17.79 | 33 | -15.21 |
| | 26365 | 1882.5 | QPSK | 1 | 0 | **23.94** | **18.77** | 33 | -14.23 |
| | | | | 1 | 14 | 23.90 | 18.73 | 33 | -14.27 |
| | | | | 8 | 4 | 22.80 | **17.63** | 33 | -15.37 |
| | | | | 15 | 0 | 22.85 | 17.68 | 33 | -15.32 |
| | 26675 | 1913.5 | QPSK | 1 | 0 | 23.87 | 18.70 | 33 | -14.3 |
| | | | | 1 | 14 | 23.88 | 18.71 | 33 | -14.29 |
| | | | | 8 | 4 | 22.85 | 17.68 | 33 | -15.32 |
| | | | | 15 | 0 | 22.84 | 17.67 | 33 | -15.33 |
| | 26055 | 1851.5 | 16QAM | 1 | 0 | 22.79 | 17.62 | 33 | -15.38 |
| | | | | 1 | 14 | **22.92** | **17.75** | 33 | -15.25 |
| | | | | 8 | 4 | 21.85 | 16.68 | 33 | -16.32 |
| | | | | 15 | 0 | 21.85 | 16.68 | 33 | -16.32 |
| | 26365 | 1882.5 | 16QAM | 1 | 0 | **22.92** | **17.75** | 33 | -15.25 |
| | | | | 1 | 14 | 22.85 | 17.68 | 33 | -15.32 |
| | | | | 8 | 4 | 21.94 | 16.77 | 33 | -16.23 |
| | | | | 15 | 0 | 21.90 | 16.73 | 33 | -16.27 |
| | 26675 | 1913.5 | 16QAM | 1 | 0 | 22.91 | 17.74 | 33 | -15.26 |
| | | | | 1 | 14 | 22.85 | 17.68 | 33 | -15.32 |
| | | | | 8 | 4 | 21.81 | **16.64** | 33 | -16.36 |
| | | | | 15 | 0 | 21.99 | 16.82 | 33 | -16.18 |

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| Antenna gain (dBi) | -5.17 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **LTE Band 25_Uplink frequency band : 1850 to 1915 MHz** | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 26065 | 1852.5 | QPSK | 1 | 0 | **23.95** | **18.78** | 33 | -14.22 |
| | | | | 1 | 24 | 23.90 | 18.73 | 33 | -14.27 |
| | | | | 12 | 6 | 22.92 | 17.75 | 33 | -15.25 |
| | | | | 25 | 0 | 22.90 | 17.73 | 33 | -15.27 |
| | 26365 | 1882.5 | QPSK | 1 | 0 | 23.91 | 18.74 | 33 | -14.26 |
| | | | | 1 | 24 | 23.92 | 18.75 | 33 | -14.25 |
| | | | | 12 | 6 | 22.98 | 17.81 | 33 | -15.19 |
| | | | | 25 | 0 | 22.84 | 17.67 | 33 | -15.33 |
| | 26665 | 1912.5 | QPSK | 1 | 0 | 23.90 | 18.73 | 33 | -14.27 |
| | | | | 1 | 24 | 23.87 | 18.70 | 33 | -14.3 |
| | | | | 12 | 6 | 22.89 | 17.72 | 33 | -15.28 |
| | | | | 25 | 0 | 22.79 | **17.62** | 33 | -15.38 |
| | 26065 | 1852.5 | 16QAM | 1 | 0 | 22.89 | 17.72 | 33 | -15.28 |
| | | | | 1 | 24 | **22.99** | **17.82** | 33 | -15.18 |
| | | | | 12 | 6 | 21.88 | **16.71** | 33 | -16.29 |
| | | | | 25 | 0 | 21.88 | **16.71** | 33 | -16.29 |
| | 26365 | 1882.5 | 16QAM | 1 | 0 | 22.92 | 17.75 | 33 | -15.25 |
| | | | | 1 | 24 | 22.80 | 17.63 | 33 | -15.37 |
| | | | | 12 | 6 | 21.91 | 16.74 | 33 | -16.26 |
| | | | | 25 | 0 | 21.92 | 16.75 | 33 | -16.25 |
| | 26665 | 1912.5 | 16QAM | 1 | 0 | 22.80 | 17.63 | 33 | -15.37 |
| | | | | 1 | 24 | 22.94 | 17.77 | 33 | -15.23 |
| | | | | 12 | 6 | 21.92 | 16.75 | 33 | -16.25 |
| | | | | 25 | 0 | 21.95 | 16.78 | 33 | -16.22 |

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| Antenna gain (dBi) | -5.17 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **LTE Band 25_Uplink frequency band : 1850 to 1915 MHz** | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 26090 | 1855 | QPSK | 1 | 0 | 23.84 | 18.67 | 33 | -14.33 |
| | | | | 1 | 49 | 23.84 | 18.67 | 33 | -14.33 |
| | | | | 25 | 12 | 22.94 | 17.77 | 33 | -15.23 |
| | | | | 50 | 0 | 22.89 | 17.72 | 33 | -15.28 |
| | 26365 | 1882.5 | QPSK | 1 | 0 | 23.84 | 18.67 | 33 | -14.33 |
| | | | | 1 | 49 | **23.90** | **18.73** | 33 | -14.27 |
| | | | | 25 | 12 | 22.93 | 17.76 | 33 | -15.24 |
| | | | | 50 | 0 | 22.83 | **17.66** | 33 | -15.34 |
| | 26640 | 1910 | QPSK | 1 | 0 | 23.84 | 18.67 | 33 | -14.33 |
| | | | | 1 | 49 | **23.90** | **18.73** | 33 | -14.27 |
| | | | | 25 | 12 | 22.97 | 17.80 | 33 | -15.2 |
| | | | | 50 | 0 | 22.94 | 17.77 | 33 | -15.23 |
| | 26090 | 1855 | 16QAM | 1 | 0 | 22.81 | 17.64 | 33 | -15.36 |
| | | | | 1 | 49 | 22.84 | 17.67 | 33 | -15.33 |
| | | | | 25 | 12 | 21.80 | **16.63** | 33 | -16.37 |
| | | | | 50 | 0 | 21.84 | 16.67 | 33 | -16.33 |
| | 26365 | 1882.5 | 16QAM | 1 | 0 | 22.83 | 17.66 | 33 | -15.34 |
| | | | | 1 | 49 | **22.98** | **17.81** | 33 | -15.19 |
| | | | | 25 | 12 | 21.83 | 16.66 | 33 | -16.34 |
| | | | | 50 | 0 | 21.87 | 16.70 | 33 | -16.3 |
| | 26640 | 1910 | 16QAM | 1 | 0 | 22.83 | 17.66 | 33 | -15.34 |
| | | | | 1 | 49 | 22.90 | 17.73 | 33 | -15.27 |
| | | | | 25 | 12 | 21.88 | 16.71 | 33 | -16.29 |
| | | | | 50 | 0 | 21.95 | 16.78 | 33 | -16.22 |

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| Antenna gain (dBi) | -5.17 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **LTE Band 25_Uplink frequency band : 1850 to 1915 MHz** | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15 | 26115 | 1857.5 | QPSK | 1 | 0 | 23.83 | 18.66 | 33 | -14.34 |
| | | | | 1 | 74 | **23.94** | **18.77** | 33 | -14.23 |
| | | | | 36 | 18 | 22.96 | 17.79 | 33 | -15.21 |
| | | | | 75 | 0 | 22.88 | 17.71 | 33 | -15.29 |
| | 26365 | 1882.5 | QPSK | 1 | 0 | 23.93 | 18.76 | 33 | -14.24 |
| | | | | 1 | 74 | 23.92 | 18.75 | 33 | -14.25 |
| | | | | 36 | 18 | 22.94 | 17.77 | 33 | -15.23 |
| | | | | 75 | 0 | 22.87 | 17.70 | 33 | -15.3 |
| | 26615 | 1907.5 | QPSK | 1 | 0 | 23.88 | 18.71 | 33 | -14.29 |
| | | | | 1 | 74 | 23.93 | 18.76 | 33 | -14.24 |
| | | | | 36 | 18 | 22.83 | 17.66 | 33 | -15.34 |
| | | | | 75 | 0 | 22.79 | **17.62** | 33 | -15.38 |
| | 26115 | 1857.5 | 16QAM | 1 | 0 | 22.93 | 17.76 | 33 | -15.24 |
| | | | | 1 | 74 | 22.88 | 17.71 | 33 | -15.29 |
| | | | | 36 | 18 | 21.97 | 16.80 | 33 | -16.2 |
| | | | | 75 | 0 | 21.89 | 16.72 | 33 | -16.28 |
| | 26365 | 1882.5 | 16QAM | 1 | 0 | 22.89 | 17.72 | 33 | -15.28 |
| | | | | 1 | 74 | 22.92 | 17.75 | 33 | -15.25 |
| | | | | 36 | 18 | 21.98 | 16.81 | 33 | -16.19 |
| | | | | 75 | 0 | 21.82 | 16.65 | 33 | -16.35 |
| | 26615 | 1907.5 | 16QAM | 1 | 0 | 22.92 | 17.75 | 33 | -15.25 |
| | | | | 1 | 74 | **22.95** | **17.78** | 33 | -15.22 |
| | | | | 36 | 18 | 21.80 | **16.63** | 33 | -16.37 |
| | | | | 75 | 0 | 21.92 | 16.75 | 33 | -16.25 |

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| Antenna gain (dBi) | -5.17 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **LTE Band 25_Uplink frequency band : 1850 to 1915 MHz** | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20 | 26140 | 1860 | QPSK | 1 | 0 | 23.95 | 18.78 | 33 | -14.22 |
| | | | | 1 | 99 | 23.84 | 18.67 | 33 | -14.33 |
| | | | | 50 | 25 | 22.87 | 17.70 | 33 | -15.3 |
| | | | | 100 | 0 | 22.96 | 17.79 | 33 | -15.21 |
| | 26365 | 1882.5 | QPSK | 1 | 0 | **23.96** | **18.79** | 33 | -14.21 |
| | | | | 1 | 99 | 23.83 | 18.66 | 33 | -14.34 |
| | | | | 50 | 25 | 22.94 | 17.77 | 33 | -15.23 |
| | | | | 100 | 0 | 22.92 | 17.75 | 33 | -15.25 |
| | 26590 | 1905 | QPSK | 1 | 0 | 23.79 | 18.62 | 33 | -14.38 |
| | | | | 1 | 99 | 23.83 | 18.66 | 33 | -14.34 |
| | | | | 50 | 25 | 22.93 | 17.76 | 33 | -15.24 |
| | | | | 100 | 0 | 22.80 | **17.63** | 33 | -15.37 |
| | 26140 | 1860 | 16QAM | 1 | 0 | **22.88** | **17.71** | 33 | -15.29 |
| | | | | 1 | 99 | 22.87 | 17.70 | 33 | -15.3 |
| | | | | 50 | 25 | 21.93 | 16.76 | 33 | -16.24 |
| | | | | 100 | 0 | 21.80 | **16.63** | 33 | -16.37 |
| | 26365 | 1882.5 | 16QAM | 1 | 0 | 22.87 | 17.70 | 33 | -15.3 |
| | | | | 1 | 99 | 22.80 | 17.63 | 33 | -15.37 |
| | | | | 50 | 25 | 21.93 | 16.76 | 33 | -16.24 |
| | | | | 100 | 0 | 21.80 | **16.63** | 33 | -16.37 |
| | 26590 | 1905 | 16QAM | 1 | 0 | 22.83 | 17.66 | 33 | -15.34 |
| | | | | 1 | 99 | 22.80 | 17.63 | 33 | -15.37 |
| | | | | 50 | 25 | 21.81 | 16.64 | 33 | -16.36 |
| | | | | 100 | 0 | 21.81 | 16.64 | 33 | -16.36 |

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Antenna gain (dBi) -3.61

| LTE Band 26_Uplink frequency band : 824 to 849 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4 | 26797 | 824.7 | QPSK | 1 | 0 | 23.89 | 20.28 | 38.45 | -18.17 |
| | | | | 1 | 5 | 23.95 | 20.34 | 38.45 | -18.11 |
| | | | | 3 | 2 | 23.86 | 20.25 | 38.45 | -18.2 |
| | | | | 6 | 0 | 22.80 | 19.19 | 38.45 | -19.26 |
| | 26915 | 836.5 | QPSK | 1 | 0 | 24.14 | **20.53** | 38.45 | -17.92 |
| | | | | 1 | 5 | 24.08 | 20.47 | 38.45 | -17.98 |
| | | | | 3 | 2 | 24.03 | 20.42 | 38.45 | -18.03 |
| | | | | 6 | 0 | 23.06 | 19.45 | 38.45 | -19 |
| | 27033 | 848.3 | QPSK | 1 | 0 | 24.04 | 20.43 | 38.45 | -18.02 |
| | | | | 1 | 5 | 23.88 | 20.27 | 38.45 | -18.18 |
| | | | | 3 | 2 | 24.04 | 20.43 | 38.45 | -18.02 |
| | | | | 6 | 0 | 23.12 | 19.51 | 38.45 | -18.94 |
| | 26797 | 824.7 | 16QAM | 1 | 0 | 23.10 | 19.49 | 38.45 | -18.96 |
| | | | | 1 | 5 | 23.26 | 19.65 | 38.45 | -18.8 |
| | | | | 3 | 2 | 23.04 | 19.43 | 38.45 | -19.02 |
| | | | | 6 | 0 | 21.99 | 18.38 | 38.45 | -20.07 |
| | 26915 | 836.5 | 16QAM | 1 | 0 | 23.52 | **19.91** | 38.45 | -18.54 |
| | | | | 1 | 5 | 23.33 | 19.72 | 38.45 | -18.73 |
| | | | | 3 | 2 | 23.26 | 19.65 | 38.45 | -18.8 |
| | | | | 6 | 0 | 22.25 | 18.64 | 38.45 | -19.81 |
| | 27033 | 848.3 | 16QAM | 1 | 0 | 23.28 | 19.67 | 38.45 | -18.78 |
| | | | | 1 | 5 | 23.12 | 19.51 | 38.45 | -18.94 |
| | | | | 3 | 2 | 23.01 | 19.40 | 38.45 | -19.05 |
| | | | | 6 | 0 | 22.11 | 18.50 | 38.45 | -19.95 |

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Antenna gain (dBi) -3.61

| LTE Band 26_Uplink frequency band : 824 to 849 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3 | 26805 | 825.5 | QPSK | 1 | 0 | 24.05 | 20.44 | 38.45 | -18.01 |
| | | | | 1 | 14 | 23.88 | 20.27 | 38.45 | -18.18 |
| | | | | 8 | 4 | 23.08 | 19.47 | 38.45 | -18.98 |
| | | | | 15 | 0 | 23.08 | 19.47 | 38.45 | -18.98 |
| | 26915 | 836.5 | QPSK | 1 | 0 | 24.18 | **20.57** | 38.45 | -17.88 |
| | | | | 1 | 14 | 24.06 | 20.45 | 38.45 | -18 |
| | | | | 8 | 4 | 23.15 | 19.54 | 38.45 | -18.91 |
| | | | | 15 | 0 | 23.13 | 19.52 | 38.45 | -18.93 |
| | 27025 | 847.5 | QPSK | 1 | 0 | 23.93 | 20.32 | 38.45 | -18.13 |
| | | | | 1 | 14 | 23.72 | 20.11 | 38.45 | -18.34 |
| | | | | 8 | 4 | 23.06 | 19.45 | 38.45 | -19 |
| | | | | 15 | 0 | 23.14 | 19.53 | 38.45 | -18.92 |
| | 26805 | 825.5 | 16QAM | 1 | 0 | 23.41 | 19.80 | 38.45 | -18.65 |
| | | | | 1 | 14 | 23.11 | 19.50 | 38.45 | -18.95 |
| | | | | 8 | 4 | 22.10 | 18.49 | 38.45 | -19.96 |
| | | | | 15 | 0 | 22.05 | 18.44 | 38.45 | -20.01 |
| | 26915 | 836.5 | 16QAM | 1 | 0 | 23.24 | 19.63 | 38.45 | -18.82 |
| | | | | 1 | 14 | 23.64 | **20.03** | 38.45 | -18.42 |
| | | | | 8 | 4 | 22.10 | 18.49 | 38.45 | -19.96 |
| | | | | 15 | 0 | 21.95 | 18.34 | 38.45 | -20.11 |
| | 27025 | 847.5 | 16QAM | 1 | 0 | 23.44 | 19.83 | 38.45 | -18.62 |
| | | | | 1 | 14 | 23.01 | 19.40 | 38.45 | -19.05 |
| | | | | 8 | 4 | 22.26 | 18.65 | 38.45 | -19.8 |
| | | | | 15 | 0 | 22.14 | 18.53 | 38.45 | -19.92 |

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Antenna gain (dBi) -3.61

| LTE Band 26_Uplink frequency band : 824 to 849 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 26815 | 826.5 | QPSK | 1 | 0 | 23.86 | 20.25 | 38.45 | -18.2 |
| | | | | 1 | 24 | 23.84 | 20.23 | 38.45 | -18.22 |
| | | | | 12 | 6 | 22.81 | 19.20 | 38.45 | -19.25 |
| | | | | 25 | 0 | 23.03 | 19.42 | 38.45 | -19.03 |
| | 26915 | 836.5 | QPSK | 1 | 0 | 23.97 | 20.36 | 38.45 | -18.09 |
| | | | | 1 | 24 | 24.17 | **20.56** | 38.45 | -17.89 |
| | | | | 12 | 6 | 23.12 | 19.51 | 38.45 | -18.94 |
| | | | | 25 | 0 | 23.11 | 19.50 | 38.45 | -18.95 |
| | 27015 | 846.5 | QPSK | 1 | 0 | 24.15 | 20.54 | 38.45 | -17.91 |
| | | | | 1 | 24 | 23.77 | 20.16 | 38.45 | -18.29 |
| | | | | 12 | 6 | 23.15 | 19.54 | 38.45 | -18.91 |
| | | | | 25 | 0 | 23.12 | 19.51 | 38.45 | -18.94 |
| | 26815 | 826.5 | 16QAM | 1 | 0 | 23.41 | 19.80 | 38.45 | -18.65 |
| | | | | 1 | 24 | 23.76 | **20.15** | 38.45 | -18.3 |
| | | | | 12 | 6 | 21.99 | 18.38 | 38.45 | -20.07 |
| | | | | 25 | 0 | 22.14 | 18.53 | 38.45 | -19.92 |
| | 26915 | 836.5 | 16QAM | 1 | 0 | 23.62 | 20.01 | 38.45 | -18.44 |
| | | | | 1 | 24 | 23.57 | 19.96 | 38.45 | -18.49 |
| | | | | 12 | 6 | 22.36 | 18.75 | 38.45 | -19.7 |
| | | | | 25 | 0 | 22.23 | 18.62 | 38.45 | -19.83 |
| | 27015 | 846.5 | 16QAM | 1 | 0 | 23.14 | 19.53 | 38.45 | -18.92 |
| | | | | 1 | 24 | 23.21 | 19.60 | 38.45 | -18.85 |
| | | | | 12 | 6 | 22.09 | 18.48 | 38.45 | -19.97 |
| | | | | 25 | 0 | 22.34 | 18.73 | 38.45 | -19.72 |

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Antenna gain (dBi) -3.61

| LTE Band 26_Uplink frequency band : 824 to 849 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 26840 | 829 | QPSK | 1 | 0 | 23.90 | 20.29 | 38.45 | -18.16 |
| | | | | 1 | 49 | 24.06 | 20.45 | 38.45 | -18 |
| | | | | 25 | 12 | 23.08 | 19.47 | 38.45 | -18.98 |
| | | | | 50 | 0 | 23.07 | 19.46 | 38.45 | -18.99 |
| | 26915 | 836.5 | QPSK | 1 | 0 | 23.86 | 20.25 | 38.45 | -18.2 |
| | | | | 1 | 49 | 24.28 | 20.67 | 38.45 | -17.78 |
| | | | | 25 | 12 | 23.13 | 19.52 | 38.45 | -18.93 |
| | | | | 50 | 0 | 23.12 | 19.51 | 38.45 | -18.94 |
| | 26990 | 844 | QPSK | 1 | 0 | 24.33 | **20.72** | 38.45 | -17.73 |
| | | | | 1 | 49 | 24.33 | **20.72** | 38.45 | -17.73 |
| | | | | 25 | 12 | 23.15 | 19.54 | 38.45 | -18.91 |
| | | | | 50 | 0 | 23.18 | 19.57 | 38.45 | -18.88 |
| | 26840 | 829 | 16QAM | 1 | 0 | 23.09 | 19.48 | 38.45 | -18.97 |
| | | | | 1 | 49 | 23.43 | 19.82 | 38.45 | -18.63 |
| | | | | 25 | 12 | 22.02 | 18.41 | 38.45 | -20.04 |
| | | | | 50 | 0 | 22.19 | 18.58 | 38.45 | -19.87 |
| | 26915 | 836.5 | 16QAM | 1 | 0 | 23.48 | 19.87 | 38.45 | -18.58 |
| | | | | 1 | 49 | 23.51 | **19.90** | 38.45 | -18.55 |
| | | | | 25 | 12 | 22.23 | 18.62 | 38.45 | -19.83 |
| | | | | 50 | 0 | 22.16 | 18.55 | 38.45 | -19.9 |
| | 26990 | 844 | 16QAM | 1 | 0 | 23.34 | 19.73 | 38.45 | -18.72 |
| | | | | 1 | 49 | 23.42 | 19.81 | 38.45 | -18.64 |
| | | | | 25 | 12 | 22.20 | 18.59 | 38.45 | -19.86 |
| | | | | 50 | 0 | 22.15 | 18.54 | 38.45 | -19.91 |

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Antenna gain (dBi) -3.61

| LTE Band 26_Uplink frequency band : 824 to 849 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15 | 26865 | 831.5 | QPSK | 1 | 0 | 24.16 | 20.55 | 38.45 | -17.9 |
| | | | | 1 | 74 | 24.41 | 20.80 | 38.45 | -17.65 |
| | | | | 36 | 18 | 23.21 | 19.60 | 38.45 | -18.85 |
| | | | | 75 | 0 | 23.26 | 19.65 | 38.45 | -18.8 |
| | 26915 | 836.5 | QPSK | 1 | 0 | 24.02 | 20.41 | 38.45 | -18.04 |
| | | | | 1 | 74 | 24.02 | 20.41 | 38.45 | -18.04 |
| | | | | 36 | 18 | 23.16 | 19.55 | 38.45 | -18.9 |
| | | | | 75 | 0 | 23.21 | 19.60 | 38.45 | -18.85 |
| | 26965 | 841.5 | QPSK | 1 | 0 | **24.44** | **20.83** | 38.45 | -17.62 |
| | | | | 1 | 74 | 24.04 | 20.43 | 38.45 | -18.02 |
| | | | | 36 | 18 | 23.13 | 19.52 | 38.45 | -18.93 |
| | | | | 75 | 0 | 23.24 | 19.63 | 38.45 | -18.82 |
| | 26865 | 831.5 | 16QAM | 1 | 0 | 23.21 | 19.60 | 38.45 | -18.85 |
| | | | | 1 | 74 | 23.73 | **20.12** | 38.45 | -18.33 |
| | | | | 36 | 18 | 22.27 | 18.66 | 38.45 | -19.79 |
| | | | | 75 | 0 | 22.31 | 18.70 | 38.45 | -19.75 |
| | 26915 | 836.5 | 16QAM | 1 | 0 | 23.30 | 19.69 | 38.45 | -18.76 |
| | | | | 1 | 74 | 23.30 | 19.69 | 38.45 | -18.76 |
| | | | | 36 | 18 | 22.17 | 18.56 | 38.45 | -19.89 |
| | | | | 75 | 0 | 22.16 | 18.55 | 38.45 | -19.9 |
| | 26965 | 841.5 | 16QAM | 1 | 0 | 23.42 | 19.81 | 38.45 | -18.64 |
| | | | | 1 | 74 | 23.56 | 19.95 | 38.45 | -18.5 |
| | | | | 36 | 18 | 22.20 | 18.59 | 38.45 | -19.86 |
| | | | | 75 | 0 | 22.21 | 18.60 | 38.45 | -19.85 |

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Antenna gain (dBi) -3.61

| Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4 | 26697 | 814.7 | QPSK | 1 | 0 | 23.92 | 20.31 | 50 | -29.69 |
| | | | | 1 | 5 | 24.06 | 20.45 | 50 | -29.55 |
| | | | | 3 | 2 | 24.10 | 20.49 | 50 | -29.51 |
| | | | | 6 | 0 | 22.81 | 19.20 | 50 | -30.8 |
| | 26740 | 819 | QPSK | 1 | 0 | 23.95 | 20.34 | 50 | -29.66 |
| | | | | 1 | 5 | 24.33 | **20.72** | 50 | -29.28 |
| | | | | 3 | 2 | 23.88 | 20.27 | 50 | -29.73 |
| | | | | 6 | 0 | 23.02 | 19.41 | 50 | -30.59 |
| | 26783 | 823.3 | QPSK | 1 | 0 | 23.86 | 20.25 | 50 | -29.75 |
| | | | | 1 | 5 | 23.79 | 20.18 | 50 | -29.82 |
| | | | | 3 | 2 | 24.27 | 20.66 | 50 | -29.34 |
| | | | | 6 | 0 | 23.14 | 19.53 | 50 | -30.47 |
| | 26697 | 814.7 | 16QAM | 1 | 0 | 22.93 | 19.32 | 50 | -30.68 |
| | | | | 1 | 5 | 23.33 | 19.72 | 50 | -30.28 |
| | | | | 3 | 2 | 22.85 | 19.24 | 50 | -30.76 |
| | | | | 6 | 0 | 21.95 | 18.34 | 50 | -31.66 |
| | 26740 | 819 | 16QAM | 1 | 0 | 23.57 | **19.96** | 50 | -30.04 |
| | | | | 1 | 5 | 23.40 | 19.79 | 50 | -30.21 |
| | | | | 3 | 2 | 23.47 | 19.86 | 50 | -30.14 |
| | | | | 6 | 0 | 22.23 | 18.62 | 50 | -31.38 |
| | 26783 | 823.3 | 16QAM | 1 | 0 | 23.33 | 19.72 | 50 | -30.28 |
| | | | | 1 | 5 | 23.01 | 19.40 | 50 | -30.6 |
| | | | | 3 | 2 | 23.24 | 19.63 | 50 | -30.37 |
| | | | | 6 | 0 | 22.28 | 18.67 | 50 | -31.33 |

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Antenna gain (dBi) -3.61

| Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3 | 26705 | 815.5 | QPSK | 1 | 0 | 23.96 | 20.35 | 50 | -29.65 |
| | | | | 1 | 14 | 23.88 | 20.27 | 50 | -29.73 |
| | | | | 8 | 4 | 23.13 | 19.52 | 50 | -30.48 |
| | | | | 15 | 0 | 22.84 | 19.23 | 50 | -30.77 |
| | 26740 | 819 | QPSK | 1 | 0 | **24.37** | **20.76** | 50 | -29.24 |
| | | | | 1 | 14 | 23.86 | 20.25 | 50 | -29.75 |
| | | | | 8 | 4 | 23.38 | 19.77 | 50 | -30.23 |
| | | | | 15 | 0 | 23.19 | 19.58 | 50 | -30.42 |
| | 26775 | 822.5 | QPSK | 1 | 0 | 23.85 | 20.24 | 50 | -29.76 |
| | | | | 1 | 14 | 23.49 | 19.88 | 50 | -30.12 |
| | | | | 8 | 4 | 23.15 | 19.54 | 50 | -30.46 |
| | | | | 15 | 0 | 22.90 | 19.29 | 50 | -30.71 |
| | 26705 | 815.5 | 16QAM | 1 | 0 | 23.47 | 19.86 | 50 | -30.14 |
| | | | | 1 | 14 | 23.07 | 19.46 | 50 | -30.54 |
| | | | | 8 | 4 | 21.96 | 18.35 | 50 | -31.65 |
| | | | | 15 | 0 | 22.06 | 18.45 | 50 | -31.55 |
| | 26740 | 819 | 16QAM | 1 | 0 | 23.08 | 19.47 | 50 | -30.53 |
| | | | | 1 | 14 | 23.89 | **20.28** | 50 | -29.72 |
| | | | | 8 | 4 | 22.06 | 18.45 | 50 | -31.55 |
| | | | | 15 | 0 | 22.04 | 18.43 | 50 | -31.57 |
| | 26775 | 822.5 | 16QAM | 1 | 0 | 23.32 | 19.71 | 50 | -30.29 |
| | | | | 1 | 14 | 23.23 | 19.62 | 50 | -30.38 |
| | | | | 8 | 4 | 22.49 | 18.88 | 50 | -31.12 |
| | | | | 15 | 0 | 22.00 | 18.39 | 50 | -31.61 |

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Antenna gain (dBi) -3.61

| Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 26715 | 816.5 | QPSK | 1 | 0 | 23.83 | 20.22 | 50 | -29.78 |
| | | | | 1 | 24 | 24.04 | 20.43 | 50 | -29.57 |
| | | | | 12 | 6 | 22.75 | 19.14 | 50 | -30.86 |
| | | | | 25 | 0 | 22.83 | 19.22 | 50 | -30.78 |
| | 26740 | 819 | QPSK | 1 | 0 | 23.91 | 20.30 | 50 | -29.7 |
| | | | | 1 | 24 | 24.21 | **20.60** | 50 | -29.4 |
| | | | | 12 | 6 | 23.11 | 19.50 | 50 | -30.5 |
| | | | | 25 | 0 | 23.00 | 19.39 | 50 | -30.61 |
| | 26765 | 821.5 | QPSK | 1 | 0 | 24.13 | 20.52 | 50 | -29.48 |
| | | | | 1 | 24 | 23.98 | 20.37 | 50 | -29.63 |
| | | | | 12 | 6 | 23.33 | 19.72 | 50 | -30.28 |
| | | | | 25 | 0 | 23.31 | 19.70 | 50 | -30.3 |
| | 26715 | 816.5 | 16QAM | 1 | 0 | 23.56 | 19.95 | 50 | -30.05 |
| | | | | 1 | 24 | 23.81 | **20.20** | 50 | -29.8 |
| | | | | 12 | 6 | 21.92 | 18.31 | 50 | -31.69 |
| | | | | 25 | 0 | 22.13 | 18.52 | 50 | -31.48 |
| | 26740 | 819 | 16QAM | 1 | 0 | 23.68 | 20.07 | 50 | -29.93 |
| | | | | 1 | 24 | 23.59 | 19.98 | 50 | -30.02 |
| | | | | 12 | 6 | 22.30 | 18.69 | 50 | -31.31 |
| | | | | 25 | 0 | 22.40 | 18.79 | 50 | -31.21 |
| | 26765 | 821.5 | 16QAM | 1 | 0 | 23.38 | 19.77 | 50 | -30.23 |
| | | | | 1 | 24 | 23.27 | 19.66 | 50 | -30.34 |
| | | | | 12 | 6 | 22.11 | 18.50 | 50 | -31.5 |
| | | | | 25 | 0 | 22.17 | 18.56 | 50 | -31.44 |

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Antenna gain (dBi) -3.61

| Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 26740 | 819 | QPSK | 1 | 0 | 23.66 | 20.05 | 50 | -29.95 |
| | | | | 1 | 49 | 24.23 | **20.62** | 50 | -29.38 |
| | | | | 25 | 12 | 23.09 | 19.48 | 50 | -30.52 |
| | | | | 50 | 0 | 23.37 | 19.76 | 50 | -30.24 |
| | 26740 | 819 | 16QAM | 1 | 0 | 23.36 | 19.75 | 50 | -30.25 |
| | | | | 1 | 49 | 23.59 | **19.98** | 50 | -30.02 |
| | | | | 25 | 12 | 22.20 | 18.59 | 50 | -31.41 |
| | | | | 50 | 0 | 21.99 | 18.38 | 50 | -31.62 |

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Antenna gain (dBi) -4.11

| LTE Band 30_Uplink frequency band : 2305 to 2315 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 27685 | 2307.5 | QPSK | 1 | 0 | 23.05 | 18.94 | 24 | -5.06 |
| | | | | 1 | 24 | 23.04 | 18.93 | 24 | -5.07 |
| | | | | 12 | 6 | 22.03 | 17.92 | 24 | -6.08 |
| | | | | 25 | 0 | 22.04 | 17.93 | 24 | -6.07 |
| | 27710 | 2310 | QPSK | 1 | 0 | 23.07 | 18.96 | 24 | -5.04 |
| | | | | 1 | 24 | 23.23 | 19.12 | 24 | -4.88 |
| | | | | 12 | 6 | 22.05 | 17.94 | 24 | -6.06 |
| | | | | 25 | 0 | 22.08 | 17.97 | 24 | -6.03 |
| | 27735 | 2312.5 | QPSK | 1 | 0 | 23.18 | 19.07 | 24 | -4.93 |
| | | | | 1 | 24 | 23.42 | **19.31** | 24 | -4.69 |
| | | | | 12 | 6 | 22.11 | 18.00 | 24 | -6 |
| | | | | 25 | 0 | 22.20 | 18.09 | 24 | -5.91 |
| | 27685 | 2307.5 | 16QAM | 1 | 0 | 22.21 | 18.10 | 24 | -5.9 |
| | | | | 1 | 24 | 22.21 | 18.10 | 24 | -5.9 |
| | | | | 12 | 6 | 21.81 | 17.70 | 24 | -6.3 |
| | | | | 25 | 0 | 21.73 | 17.62 | 24 | -6.38 |
| | 27710 | 2310 | 16QAM | 1 | 0 | 22.25 | 18.14 | 24 | -5.86 |
| | | | | 1 | 24 | 22.27 | **18.16** | 24 | -5.84 |
| | | | | 12 | 6 | 21.74 | 17.63 | 24 | -6.37 |
| | | | | 25 | 0 | 21.68 | 17.57 | 24 | -6.43 |
| | 27735 | 2312.5 | 16QAM | 1 | 0 | 22.04 | 17.93 | 24 | -6.07 |
| | | | | 1 | 24 | 22.05 | 17.94 | 24 | -6.06 |
| | | | | 12 | 6 | 21.53 | 17.42 | 24 | -6.58 |
| | | | | 25 | 0 | 21.17 | 17.06 | 24 | -6.94 |

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Antenna gain (dBi) -4.11

| LTE Band 30_Uplink frequency band : 2305 to 2315 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 27710 | 2310 | QPSK | 1 | 0 | 23.11 | 19.00 | 24 | -5 |
| | | | | 1 | 49 | **23.54** | **19.43** | 24 | -4.57 |
| | | | | 25 | 12 | 22.24 | 18.13 | 24 | -5.87 |
| | | | | 50 | 0 | 22.25 | 18.14 | 24 | -5.86 |
| | 27710 | 2310 | 16QAM | 1 | 0 | 22.54 | 18.43 | 24 | -5.57 |
| | | | | 1 | 49 | 22.80 | **18.69** | 24 | -5.31 |
| | | | | 25 | 12 | 21.26 | 17.15 | 24 | -6.85 |
| | | | | 50 | 0 | 21.34 | 17.23 | 24 | -6.77 |

| LTE Band 30_Uplink frequency band : 2305 to 2315 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm/5MHz) | EIRP Average (dBm/5MHz) | EIRP Limit (dBm/5MHZ) | Margin (dB) |
| 10 | 27710 | 2310 | QPSK | 1 | 0 | 19.87 | 15.76 | 24 | -8.24 |
| | | | | 1 | 49 | 20.22 | **16.11** | 24 | -7.89 |
| | | | | 25 | 12 | 19.21 | 15.10 | 24 | -8.9 |
| | | | | 50 | 0 | 19.20 | **15.09** | 24 | -8.91 |
| | 27710 | 2310 | 16QAM | 1 | 0 | 19.04 | 14.93 | 24 | -9.07 |
| | | | | 1 | 49 | 19.21 | **15.10** | 24 | -8.9 |
| | | | | 25 | 12 | 18.14 | **14.03** | 24 | -9.97 |
| | | | | 50 | 0 | 18.31 | 14.20 | 24 | -9.8 |

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| Antenna gain (dBi) | -4.57 |
|---|---|

| LTE Band 38_Uplink frequency band : 2570 to 2620 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 37775 | 2572.5 | QPSK | 1 | 0 | 23.90 | 19.33 | 33 | -13.67 |
| | | | | 1 | 24 | 23.82 | 19.25 | 33 | -13.75 |
| | | | | 12 | 6 | 22.88 | 18.31 | 33 | -14.69 |
| | | | | 25 | 0 | 22.86 | 18.29 | 33 | -14.71 |
| | 38000 | 2595 | QPSK | 1 | 0 | 23.80 | 19.23 | 33 | -13.77 |
| | | | | 1 | 24 | 23.89 | 19.32 | 33 | -13.68 |
| | | | | 12 | 6 | 22.79 | **18.22** | 33 | -14.78 |
| | | | | 25 | 0 | 22.80 | 18.23 | 33 | -14.77 |
| | 38225 | 2617.5 | QPSK | 1 | 0 | 23.81 | 19.24 | 33 | -13.76 |
| | | | | 1 | 24 | 23.91 | **19.34** | 33 | -13.66 |
| | | | | 12 | 6 | 22.85 | 18.28 | 33 | -14.72 |
| | | | | 25 | 0 | 22.86 | 18.29 | 33 | -14.71 |
| | 37775 | 2572.5 | 16QAM | 1 | 0 | 22.78 | 18.21 | 33 | -14.79 |
| | | | | 1 | 24 | 22.94 | **18.37** | 33 | -14.63 |
| | | | | 12 | 6 | 21.83 | 17.26 | 33 | -15.74 |
| | | | | 25 | 0 | 21.87 | 17.30 | 33 | -15.7 |
| | 38000 | 2595 | 16QAM | 1 | 0 | 22.87 | 18.30 | 33 | -14.7 |
| | | | | 1 | 24 | 22.86 | 18.29 | 33 | -14.71 |
| | | | | 12 | 6 | 21.80 | **17.23** | 33 | -15.77 |
| | | | | 25 | 0 | 21.87 | 17.30 | 33 | -15.7 |
| | 38225 | 2617.5 | 16QAM | 1 | 0 | 22.81 | 18.24 | 33 | -14.76 |
| | | | | 1 | 24 | 22.83 | 18.26 | 33 | -14.74 |
| | | | | 12 | 6 | 21.86 | 17.29 | 33 | -15.71 |
| | | | | 25 | 0 | 21.94 | 17.37 | 33 | -15.63 |

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| Antenna gain (dBi) | -4.57 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **LTE Band 38_Uplink frequency band : 2570 to 2620 MHz** | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 37800 | 2575 | QPSK | 1 | 0 | 23.95 | **19.38** | 33 | -13.62 |
| | | | | 1 | 49 | 23.92 | 19.35 | 33 | -13.65 |
| | | | | 25 | 12 | 22.84 | 18.27 | 33 | -14.73 |
| | | | | 50 | 0 | 22.78 | **18.21** | 33 | -14.79 |
| | 38000 | 2595 | QPSK | 1 | 0 | 23.94 | 19.37 | 33 | -13.63 |
| | | | | 1 | 49 | 23.92 | 19.35 | 33 | -13.65 |
| | | | | 25 | 12 | 22.90 | 18.33 | 33 | -14.67 |
| | | | | 50 | 0 | 22.83 | 18.26 | 33 | -14.74 |
| | 38200 | 2615 | QPSK | 1 | 0 | 23.91 | 19.34 | 33 | -13.66 |
| | | | | 1 | 49 | 23.95 | **19.38** | 33 | -13.62 |
| | | | | 25 | 12 | 22.89 | 18.32 | 33 | -14.68 |
| | | | | 50 | 0 | 22.93 | 18.36 | 33 | -14.64 |
| | 37800 | 2575 | 16QAM | 1 | 0 | 22.93 | **18.36** | 33 | -14.64 |
| | | | | 1 | 49 | 22.93 | **18.36** | 33 | -14.64 |
| | | | | 25 | 12 | 21.89 | 17.32 | 33 | -15.68 |
| | | | | 50 | 0 | 21.83 | **17.26** | 33 | -15.74 |
| | 38000 | 2595 | 16QAM | 1 | 0 | 22.79 | 18.22 | 33 | -14.78 |
| | | | | 1 | 49 | 22.85 | 18.28 | 33 | -14.72 |
| | | | | 25 | 12 | 21.95 | 17.38 | 33 | -15.62 |
| | | | | 50 | 0 | 21.87 | 17.30 | 33 | -15.7 |
| | 38200 | 2615 | 16QAM | 1 | 0 | 22.88 | 18.31 | 33 | -14.69 |
| | | | | 1 | 49 | 22.79 | 18.22 | 33 | -14.78 |
| | | | | 25 | 12 | 21.90 | 17.33 | 33 | -15.67 |
| | | | | 50 | 0 | 21.85 | 17.28 | 33 | -15.72 |

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| Antenna gain (dBi) | -4.57 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **LTE Band 38_Uplink frequency band : 2570 to 2620 MHz** | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15 | 37825 | 2577.5 | QPSK | 1 | 0 | 23.97 | **19.40** | 33 | -13.6 |
| | | | | 1 | 74 | 23.87 | 19.30 | 33 | -13.7 |
| | | | | 36 | 19 | 22.82 | 18.25 | 33 | -14.75 |
| | | | | 75 | 0 | 22.78 | **18.21** | 33 | -14.79 |
| | 38000 | 2595 | QPSK | 1 | 0 | 23.86 | 19.29 | 33 | -13.71 |
| | | | | 1 | 74 | 23.82 | 19.25 | 33 | -13.75 |
| | | | | 36 | 19 | 22.92 | 18.35 | 33 | -14.65 |
| | | | | 75 | 0 | 22.93 | 18.36 | 33 | -14.64 |
| | 38175 | 2612.5 | QPSK | 1 | 0 | 23.81 | 19.24 | 33 | -13.76 |
| | | | | 1 | 74 | 23.96 | 19.39 | 33 | -13.61 |
| | | | | 36 | 19 | 22.88 | 18.31 | 33 | -14.69 |
| | | | | 75 | 0 | 22.78 | **18.21** | 33 | -14.79 |
| | 37825 | 2577.5 | 16QAM | 1 | 0 | 22.85 | **18.28** | 33 | -14.72 |
| | | | | 1 | 74 | 22.85 | **18.28** | 33 | -14.72 |
| | | | | 36 | 19 | 21.85 | 17.28 | 33 | -15.72 |
| | | | | 75 | 0 | 21.80 | **17.23** | 33 | -15.77 |
| | 38000 | 2595 | 16QAM | 1 | 0 | 22.77 | 18.20 | 33 | -14.8 |
| | | | | 1 | 74 | 22.85 | **18.28** | 33 | -14.72 |
| | | | | 36 | 19 | 21.95 | 17.38 | 33 | -15.62 |
| | | | | 75 | 0 | 21.91 | 17.34 | 33 | -15.66 |
| | 38175 | 2612.5 | 16QAM | 1 | 0 | 22.85 | **18.28** | 33 | -14.72 |
| | | | | 1 | 74 | 22.83 | 18.26 | 33 | -14.74 |
| | | | | 36 | 19 | 21.93 | 17.36 | 33 | -15.64 |
| | | | | 75 | 0 | 21.81 | 17.24 | 33 | -15.76 |

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| Antenna gain (dBi) | -4.57 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **LTE Band 38_Uplink frequency band : 2570 to 2620 MHz** | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20 | 37850 | 2580 | QPSK | 1 | 0 | 23.95 | 19.38 | 33 | -13.62 |
| | | | | 1 | 99 | 23.77 | 19.20 | 33 | -13.8 |
| | | | | 50 | 25 | 22.92 | 18.35 | 33 | -14.65 |
| | | | | 100 | 0 | 22.78 | **18.21** | 33 | -14.79 |
| | 38000 | 2595 | QPSK | 1 | 0 | 23.98 | **19.41** | 33 | -13.59 |
| | | | | 1 | 99 | 23.87 | 19.30 | 33 | -13.7 |
| | | | | 50 | 25 | 22.86 | 18.29 | 33 | -14.71 |
| | | | | 100 | 0 | 22.89 | 18.32 | 33 | -14.68 |
| | 38150 | 2610 | QPSK | 1 | 0 | 23.94 | 19.37 | 33 | -13.63 |
| | | | | 1 | 99 | 23.79 | 19.22 | 33 | -13.78 |
| | | | | 50 | 25 | 22.82 | 18.25 | 33 | -14.75 |
| | | | | 100 | 0 | 22.83 | 18.26 | 33 | -14.74 |
| | 37850 | 2580 | 16QAM | 1 | 0 | 22.93 | 18.36 | 33 | -14.64 |
| | | | | 1 | 99 | 22.78 | 18.21 | 33 | -14.79 |
| | | | | 50 | 25 | 21.90 | 17.33 | 33 | -15.67 |
| | | | | 100 | 0 | 21.79 | 17.22 | 33 | -15.78 |
| | 38000 | 2595 | 16QAM | 1 | 0 | 22.86 | 18.29 | 33 | -14.71 |
| | | | | 1 | 99 | 22.84 | 18.27 | 33 | -14.73 |
| | | | | 50 | 25 | 21.84 | 17.27 | 33 | -15.73 |
| | | | | 100 | 0 | 21.83 | 17.26 | 33 | -15.74 |
| | 38150 | 2610 | 16QAM | 1 | 0 | 22.94 | **18.37** | 33 | -14.63 |
| | | | | 1 | 99 | 22.85 | 18.28 | 33 | -14.72 |
| | | | | 50 | 25 | 21.94 | 17.37 | 33 | -15.63 |
| | | | | 100 | 0 | 21.78 | **17.21** | 33 | -15.79 |

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Antenna gain (dBi) -4.57

| LTE Band 41_Uplink frequency band : 2496 to 2690 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 39675 | 2498.5 | QPSK | 1 | 0 | 24.44 | 19.87 | 33 | -13.13 |
| | | | | 1 | 24 | 24.47 | 19.90 | 33 | -13.1 |
| | | | | 12 | 6 | 23.54 | 18.97 | 33 | -14.03 |
| | | | | 25 | 0 | 23.55 | 18.98 | 33 | -14.02 |
| | 40620 | 2593 | QPSK | 1 | 0 | 24.78 | **20.21** | 33 | -12.79 |
| | | | | 1 | 24 | 24.66 | 20.09 | 33 | -12.91 |
| | | | | 12 | 6 | 23.43 | 18.86 | 33 | -14.14 |
| | | | | 25 | 0 | 23.46 | 18.89 | 33 | -14.11 |
| | 41565 | 2687.5 | QPSK | 1 | 0 | 24.47 | 19.90 | 33 | -13.1 |
| | | | | 1 | 24 | 24.52 | 19.95 | 33 | -13.05 |
| | | | | 12 | 6 | 23.55 | 18.98 | 33 | -14.02 |
| | | | | 25 | 0 | 23.57 | 19.00 | 33 | -14 |
| | 39675 | 2498.5 | 16QAM | 1 | 0 | 23.71 | 19.14 | 33 | -13.86 |
| | | | | 1 | 24 | 23.69 | 19.12 | 33 | -13.88 |
| | | | | 12 | 6 | 22.68 | 18.11 | 33 | -14.89 |
| | | | | 25 | 0 | 22.66 | 18.09 | 33 | -14.91 |
| | 40620 | 2593 | 16QAM | 1 | 0 | 23.70 | 19.13 | 33 | -13.87 |
| | | | | 1 | 24 | 23.81 | **19.24** | 33 | -13.76 |
| | | | | 12 | 6 | 22.54 | 17.97 | 33 | -15.03 |
| | | | | 25 | 0 | 22.45 | 17.88 | 33 | -15.12 |
| | 41565 | 2687.5 | 16QAM | 1 | 0 | 23.47 | 18.90 | 33 | -14.1 |
| | | | | 1 | 24 | 23.63 | 19.06 | 33 | -13.94 |
| | | | | 12 | 6 | 22.64 | 18.07 | 33 | -14.93 |
| | | | | 25 | 0 | 22.56 | 17.99 | 33 | -15.01 |

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Antenna gain (dBi) -4.57

| LTE Band 41_Uplink frequency band : 2496 to 2690 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 39700 | 2501 | QPSK | 1 | 0 | 24.46 | 19.89 | 33 | -13.11 |
| | | | | 1 | 49 | 24.56 | 19.99 | 33 | -13.01 |
| | | | | 25 | 12 | 23.62 | 19.05 | 33 | -13.95 |
| | | | | 50 | 0 | 23.61 | 19.04 | 33 | -13.96 |
| | 40620 | 2593 | QPSK | 1 | 0 | 24.43 | 19.86 | 33 | -13.14 |
| | | | | 1 | 49 | 24.68 | **20.11** | 33 | -12.89 |
| | | | | 25 | 12 | 23.48 | 18.91 | 33 | -14.09 |
| | | | | 50 | 0 | 23.45 | 18.88 | 33 | -14.12 |
| | 41540 | 2685 | QPSK | 1 | 0 | 24.52 | 19.95 | 33 | -13.05 |
| | | | | 1 | 49 | 24.59 | 20.02 | 33 | -12.98 |
| | | | | 25 | 12 | 23.58 | 19.01 | 33 | -13.99 |
| | | | | 50 | 0 | 23.52 | 18.95 | 33 | -14.05 |
| | 39700 | 2501 | 16QAM | 1 | 0 | 23.89 | 19.32 | 33 | -13.68 |
| | | | | 1 | 49 | 23.66 | 19.09 | 33 | -13.91 |
| | | | | 25 | 12 | 22.72 | 18.15 | 33 | -14.85 |
| | | | | 50 | 0 | 22.65 | 18.08 | 33 | -14.92 |
| | 40620 | 2593 | 16QAM | 1 | 0 | 23.66 | 19.09 | 33 | -13.91 |
| | | | | 1 | 49 | 23.93 | **19.36** | 33 | -13.64 |
| | | | | 25 | 12 | 22.48 | 17.91 | 33 | -15.09 |
| | | | | 50 | 0 | 22.55 | 17.98 | 33 | -15.02 |
| | 41540 | 2685 | 16QAM | 1 | 0 | 23.44 | 18.87 | 33 | -14.13 |
| | | | | 1 | 49 | 23.66 | 19.09 | 33 | -13.91 |
| | | | | 25 | 12 | 22.69 | 18.12 | 33 | -14.88 |
| | | | | 50 | 0 | 22.56 | 17.99 | 33 | -15.01 |

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Antenna gain (dBi) -4.57

| LTE Band 41_Uplink frequency band : 2496 to 2690 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15 | 39725 | 2503.5 | QPSK | 1 | 0 | 24.78 | **20.21** | 33 | -12.79 |
| | | | | 1 | 74 | 24.48 | 19.91 | 33 | -13.09 |
| | | | | 36 | 18 | 23.61 | 19.04 | 33 | -13.96 |
| | | | | 75 | 0 | 23.56 | 18.99 | 33 | -14.01 |
| | 40620 | 2593 | QPSK | 1 | 0 | 24.54 | 19.97 | 33 | -13.03 |
| | | | | 1 | 74 | 24.58 | 20.01 | 33 | -12.99 |
| | | | | 36 | 18 | 23.57 | 19.00 | 33 | -14 |
| | | | | 75 | 0 | 23.76 | 19.19 | 33 | -13.81 |
| | 41515 | 2682.5 | QPSK | 1 | 0 | 24.44 | 19.87 | 33 | -13.13 |
| | | | | 1 | 74 | 24.47 | 19.90 | 33 | -13.1 |
| | | | | 36 | 18 | 23.53 | 18.96 | 33 | -14.04 |
| | | | | 75 | 0 | 23.50 | 18.93 | 33 | -14.07 |
| | 39725 | 2503.5 | 16QAM | 1 | 0 | 23.76 | 19.19 | 33 | -13.81 |
| | | | | 1 | 74 | 23.95 | **19.38** | 33 | -13.62 |
| | | | | 36 | 18 | 22.67 | 18.10 | 33 | -14.9 |
| | | | | 75 | 0 | 22.64 | 18.07 | 33 | -14.93 |
| | 40620 | 2593 | 16QAM | 1 | 0 | 23.84 | 19.27 | 33 | -13.73 |
| | | | | 1 | 74 | 23.58 | 19.01 | 33 | -13.99 |
| | | | | 36 | 18 | 22.69 | 18.12 | 33 | -14.88 |
| | | | | 75 | 0 | 22.63 | 18.06 | 33 | -14.94 |
| | 41515 | 2682.5 | 16QAM | 1 | 0 | 23.41 | 18.84 | 33 | -14.16 |
| | | | | 1 | 74 | 23.68 | 19.11 | 33 | -13.89 |
| | | | | 36 | 18 | 22.58 | 18.01 | 33 | -14.99 |
| | | | | 75 | 0 | 22.48 | 17.91 | 33 | -15.09 |

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Antenna gain (dBi) -4.57

| LTE Band 41_Uplink frequency band : 2496 to 2690 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20 | 39750 | 2506 | QPSK | 1 | 0 | 24.09 | 19.52 | 33 | -13.48 |
| | | | | 1 | 99 | 23.68 | 19.11 | 33 | -13.89 |
| | | | | 50 | 25 | 22.86 | 18.29 | 33 | -14.71 |
| | | | | 100 | 0 | 22.88 | 18.31 | 33 | -14.69 |
| | 40620 | 2593 | QPSK | 1 | 0 | 24.00 | 19.43 | 33 | -13.57 |
| | | | | 1 | 99 | 24.07 | 19.50 | 33 | -13.5 |
| | | | | 50 | 25 | 22.98 | 18.41 | 33 | -14.59 |
| | | | | 100 | 0 | 22.97 | 18.40 | 33 | -14.6 |
| | 41490 | 2680 | QPSK | 1 | 0 | **24.84** | **20.27** | 33 | -12.73 |
| | | | | 1 | 99 | 24.82 | 20.25 | 33 | -12.75 |
| | | | | 50 | 25 | 23.39 | 18.82 | 33 | -14.18 |
| | | | | 100 | 0 | 23.32 | 18.75 | 33 | -14.25 |
| | 39750 | 2506 | 16QAM | 1 | 0 | 23.71 | 19.14 | 33 | -13.86 |
| | | | | 1 | 99 | 23.95 | **19.38** | 33 | -13.62 |
| | | | | 50 | 25 | 22.59 | 18.02 | 33 | -14.98 |
| | | | | 100 | 0 | 22.57 | 18.00 | 33 | -15 |
| | 40620 | 2593 | 16QAM | 1 | 0 | 23.91 | 19.34 | 33 | -13.66 |
| | | | | 1 | 99 | 23.81 | 19.24 | 33 | -13.76 |
| | | | | 50 | 25 | 22.54 | 17.97 | 33 | -15.03 |
| | | | | 100 | 0 | 22.49 | 17.92 | 33 | -15.08 |
| | 41490 | 2680 | 16QAM | 1 | 0 | 23.52 | 18.95 | 33 | -14.05 |
| | | | | 1 | 99 | 23.76 | 19.19 | 33 | -13.81 |
| | | | | 50 | 25 | 22.57 | 18.00 | 33 | -15 |
| | | | | 100 | 0 | 22.45 | 17.88 | 33 | -15.12 |

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Antenna gain (dBi) -4.69

| LTE Band 66_Uplink frequency band : 1710 to 1780 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4 | 131979 | 1710.7 | QPSK | 1 | 0 | 23.11 | 18.42 | 30 | -11.58 |
| | | | | 1 | 5 | 22.99 | 18.30 | 30 | -11.7 |
| | | | | 3 | 2 | 22.96 | 18.27 | 30 | -11.73 |
| | | | | 6 | 0 | 22.09 | 17.40 | 30 | -12.6 |
| | 132322 | 1745 | QPSK | 1 | 0 | 23.21 | 18.52 | 30 | -11.48 |
| | | | | 1 | 5 | 23.30 | **18.61** | 30 | -11.39 |
| | | | | 3 | 2 | 23.20 | 18.51 | 30 | -11.49 |
| | | | | 6 | 0 | 22.31 | 17.62 | 30 | -12.38 |
| | 132665 | 1779.3 | QPSK | 1 | 0 | 22.92 | 18.23 | 30 | -11.77 |
| | | | | 1 | 5 | 22.94 | 18.25 | 30 | -11.75 |
| | | | | 3 | 2 | 22.88 | 18.19 | 30 | -11.81 |
| | | | | 6 | 0 | 21.98 | 17.29 | 30 | -12.71 |
| | 131979 | 1710.7 | 16QAM | 1 | 0 | 22.27 | 17.58 | 30 | -12.42 |
| | | | | 1 | 5 | 22.74 | **18.05** | 30 | -11.95 |
| | | | | 3 | 2 | 22.24 | 17.55 | 30 | -12.45 |
| | | | | 6 | 0 | 21.31 | 16.62 | 30 | -13.38 |
| | 132322 | 1745 | 16QAM | 1 | 0 | 22.72 | 18.03 | 30 | -11.97 |
| | | | | 1 | 5 | 22.31 | 17.62 | 30 | -12.38 |
| | | | | 3 | 2 | 22.31 | 17.62 | 30 | -12.38 |
| | | | | 6 | 0 | 21.35 | 16.66 | 30 | -13.34 |
| | 132665 | 1779.3 | 16QAM | 1 | 0 | 22.56 | 17.87 | 30 | -12.13 |
| | | | | 1 | 5 | 22.43 | 17.74 | 30 | -12.26 |
| | | | | 3 | 2 | 22.39 | 17.70 | 30 | -12.3 |
| | | | | 6 | 0 | 21.08 | 16.39 | 30 | -13.61 |

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Antenna gain (dBi) -4.69

| LTE Band 66_Uplink frequency band : 1710 to 1780 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3 | 131987 | 1711.5 | QPSK | 1 | 0 | 23.17 | 18.48 | 30 | -11.52 |
| | | | | 1 | 14 | 23.30 | **18.61** | 30 | -11.39 |
| | | | | 8 | 4 | 22.32 | 17.63 | 30 | -12.37 |
| | | | | 15 | 0 | 22.37 | 17.68 | 30 | -12.32 |
| | 132322 | 1745 | QPSK | 1 | 0 | 23.26 | 18.57 | 30 | -11.43 |
| | | | | 1 | 14 | 23.30 | **18.61** | 30 | -11.39 |
| | | | | 8 | 4 | 22.43 | 17.74 | 30 | -12.26 |
| | | | | 15 | 0 | 22.40 | 17.71 | 30 | -12.29 |
| | 132657 | 1778.5 | QPSK | 1 | 0 | 22.98 | 18.29 | 30 | -11.71 |
| | | | | 1 | 14 | 23.08 | 18.39 | 30 | -11.61 |
| | | | | 8 | 4 | 22.14 | 17.45 | 30 | -12.55 |
| | | | | 15 | 0 | 22.18 | 17.49 | 30 | -12.51 |
| | 131987 | 1711.5 | 16QAM | 1 | 0 | 22.60 | 17.91 | 30 | -12.09 |
| | | | | 1 | 14 | 22.42 | 17.73 | 30 | -12.27 |
| | | | | 8 | 4 | 21.43 | 16.74 | 30 | -13.26 |
| | | | | 15 | 0 | 21.32 | 16.63 | 30 | -13.37 |
| | 132322 | 1745 | 16QAM | 1 | 0 | 22.44 | 17.75 | 30 | -12.25 |
| | | | | 1 | 14 | 22.62 | **17.93** | 30 | -12.07 |
| | | | | 8 | 4 | 21.48 | 16.79 | 30 | -13.21 |
| | | | | 15 | 0 | 21.45 | 16.76 | 30 | -13.24 |
| | 132657 | 1778.5 | 16QAM | 1 | 0 | 22.47 | 17.78 | 30 | -12.22 |
| | | | | 1 | 14 | 22.19 | 17.50 | 30 | -12.5 |
| | | | | 8 | 4 | 21.33 | 16.64 | 30 | -13.36 |
| | | | | 15 | 0 | 21.22 | 16.53 | 30 | -13.47 |

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Antenna gain (dBi) -4.69

| LTE Band 66_Uplink frequency band : 1710 to 1780 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 131997 | 1712.5 | QPSK | 1 | 0 | 23.36 | 18.67 | 30 | -11.33 |
| | | | | 1 | 24 | 23.22 | 18.53 | 30 | -11.47 |
| | | | | 12 | 6 | 22.37 | 17.68 | 30 | -12.32 |
| | | | | 25 | 0 | 22.31 | 17.62 | 30 | -12.38 |
| | 132322 | 1745 | QPSK | 1 | 0 | 23.24 | 18.55 | 30 | -11.45 |
| | | | | 1 | 24 | 23.50 | **18.81** | 30 | -11.19 |
| | | | | 12 | 6 | 22.38 | 17.69 | 30 | -12.31 |
| | | | | 25 | 0 | 22.33 | 17.64 | 30 | -12.36 |
| | 132647 | 1777.5 | QPSK | 1 | 0 | 23.25 | 18.56 | 30 | -11.44 |
| | | | | 1 | 24 | 22.97 | 18.28 | 30 | -11.72 |
| | | | | 12 | 6 | 22.13 | 17.44 | 30 | -12.56 |
| | | | | 25 | 0 | 22.18 | 17.49 | 30 | -12.51 |
| | 131997 | 1712.5 | 16QAM | 1 | 0 | 22.10 | 17.41 | 30 | -12.59 |
| | | | | 1 | 24 | 22.73 | 18.04 | 30 | -11.96 |
| | | | | 12 | 6 | 21.41 | 16.72 | 30 | -13.28 |
| | | | | 25 | 0 | 21.38 | 16.69 | 30 | -13.31 |
| | 132322 | 1745 | 16QAM | 1 | 0 | 22.65 | 17.96 | 30 | -12.04 |
| | | | | 1 | 24 | 22.97 | **18.28** | 30 | -11.72 |
| | | | | 12 | 6 | 21.54 | 16.85 | 30 | -13.15 |
| | | | | 25 | 0 | 21.38 | 16.69 | 30 | -13.31 |
| | 132647 | 1777.5 | 16QAM | 1 | 0 | 22.71 | 18.02 | 30 | -11.98 |
| | | | | 1 | 24 | 22.39 | 17.70 | 30 | -12.3 |
| | | | | 12 | 6 | 21.33 | 16.64 | 30 | -13.36 |
| | | | | 25 | 0 | 21.28 | 16.59 | 30 | -13.41 |

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Antenna gain (dBi) -4.69

| LTE Band 66_Uplink frequency band : 1710 to 1780 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 132022 | 1715 | QPSK | 1 | 0 | 23.46 | 18.77 | 30 | -11.23 |
| | | | | 1 | 49 | 23.09 | 18.40 | 30 | -11.6 |
| | | | | 25 | 12 | 22.00 | 17.31 | 30 | -12.69 |
| | | | | 50 | 0 | 22.22 | 17.53 | 30 | -12.47 |
| | 132322 | 1745 | QPSK | 1 | 0 | 23.24 | 18.55 | 30 | -11.45 |
| | | | | 1 | 49 | 23.40 | 18.71 | 30 | -11.29 |
| | | | | 25 | 12 | 22.38 | 17.69 | 30 | -12.31 |
| | | | | 50 | 0 | 22.40 | 17.71 | 30 | -12.29 |
| | 132622 | 1775 | QPSK | 1 | 0 | 23.54 | **18.85** | 30 | -11.15 |
| | | | | 1 | 49 | 23.19 | 18.50 | 30 | -11.5 |
| | | | | 25 | 12 | 22.28 | 17.59 | 30 | -12.41 |
| | | | | 50 | 0 | 22.26 | 17.57 | 30 | -12.43 |
| | 132022 | 1715 | 16QAM | 1 | 0 | 22.66 | 17.97 | 30 | -12.03 |
| | | | | 1 | 49 | 22.75 | 18.06 | 30 | -11.94 |
| | | | | 25 | 12 | 21.25 | 16.56 | 30 | -13.44 |
| | | | | 50 | 0 | 21.26 | 16.57 | 30 | -13.43 |
| | 132322 | 1745 | 16QAM | 1 | 0 | 22.75 | 18.06 | 30 | -11.94 |
| | | | | 1 | 49 | 22.79 | **18.10** | 30 | -11.9 |
| | | | | 25 | 12 | 21.46 | 16.77 | 30 | -13.23 |
| | | | | 50 | 0 | 21.41 | 16.72 | 30 | -13.28 |
| | 132622 | 1775 | 16QAM | 1 | 0 | 22.79 | **18.10** | 30 | -11.9 |
| | | | | 1 | 49 | 22.52 | 17.83 | 30 | -12.17 |
| | | | | 25 | 12 | 21.35 | 16.66 | 30 | -13.34 |
| | | | | 50 | 0 | 21.27 | 16.58 | 30 | -13.42 |

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Antenna gain (dBi) -4.69

| LTE Band 66_Uplink frequency band : 1710 to 1780 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15 | 132047 | 1717.5 | QPSK | 1 | 0 | 23.15 | 18.46 | 30 | -11.54 |
| | | | | 1 | 74 | 23.45 | **18.76** | 30 | -11.24 |
| | | | | 36 | 18 | 22.05 | 17.36 | 30 | -12.64 |
| | | | | 75 | 0 | 22.08 | 17.39 | 30 | -12.61 |
| | 132322 | 1745 | QPSK | 1 | 0 | 23.39 | 18.70 | 30 | -11.3 |
| | | | | 1 | 74 | 23.36 | 18.67 | 30 | -11.33 |
| | | | | 36 | 18 | 22.37 | 17.68 | 30 | -12.32 |
| | | | | 75 | 0 | 22.42 | 17.73 | 30 | -12.27 |
| | 132597 | 1772.5 | QPSK | 1 | 0 | 23.30 | 18.61 | 30 | -11.39 |
| | | | | 1 | 74 | 23.10 | 18.41 | 30 | -11.59 |
| | | | | 36 | 18 | 22.40 | 17.71 | 30 | -12.29 |
| | | | | 75 | 0 | 22.43 | 17.74 | 30 | -12.26 |
| | 132047 | 1717.5 | 16QAM | 1 | 0 | 22.42 | 17.73 | 30 | -12.27 |
| | | | | 1 | 74 | 22.56 | 17.87 | 30 | -12.13 |
| | | | | 36 | 18 | 21.24 | 16.55 | 30 | -13.45 |
| | | | | 75 | 0 | 21.32 | 16.63 | 30 | -13.37 |
| | 132322 | 1745 | 16QAM | 1 | 0 | 22.81 | **18.12** | 30 | -11.88 |
| | | | | 1 | 74 | 22.66 | 17.97 | 30 | -12.03 |
| | | | | 36 | 18 | 21.42 | 16.73 | 30 | -13.27 |
| | | | | 75 | 0 | 21.51 | 16.82 | 30 | -13.18 |
| | 132597 | 1772.5 | 16QAM | 1 | 0 | 22.70 | 18.01 | 30 | -11.99 |
| | | | | 1 | 74 | 22.25 | 17.56 | 30 | -12.44 |
| | | | | 36 | 18 | 21.39 | 16.70 | 30 | -13.3 |
| | | | | 75 | 0 | 21.41 | 16.72 | 30 | -13.28 |

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Antenna gain (dBi) -4.69

| LTE Band 66_Uplink frequency band : 1710 to 1780 MHz | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20 | 132072 | 1720 | QPSK | 1 | 0 | 23.36 | 18.67 | 30 | -11.33 |
| | | | | 1 | 99 | 23.18 | 18.49 | 30 | -11.51 |
| | | | | 50 | 25 | 22.21 | 17.52 | 30 | -12.48 |
| | | | | 100 | 0 | 22.30 | 17.61 | 30 | -12.39 |
| | 132322 | 1745 | QPSK | 1 | 0 | 23.57 | 18.88 | 30 | -11.12 |
| | | | | 1 | 99 | 23.58 | 18.89 | 30 | -11.11 |
| | | | | 50 | 25 | 22.31 | 17.62 | 30 | -12.38 |
| | | | | 100 | 0 | 22.35 | 17.66 | 30 | -12.34 |
| | 132572 | 1770 | QPSK | 1 | 0 | **23.63** | **18.94** | 30 | -11.06 |
| | | | | 1 | 99 | 23.17 | 18.48 | 30 | -11.52 |
| | | | | 50 | 25 | 22.33 | 17.64 | 30 | -12.36 |
| | | | | 100 | 0 | 22.47 | 17.78 | 30 | -12.22 |
| | 132072 | 1720 | 16QAM | 1 | 0 | 22.44 | 17.75 | 30 | -12.25 |
| | | | | 1 | 99 | 22.52 | 17.83 | 30 | -12.17 |
| | | | | 50 | 25 | 21.26 | 16.57 | 30 | -13.43 |
| | | | | 100 | 0 | 21.28 | 16.59 | 30 | -13.41 |
| | 132322 | 1745 | 16QAM | 1 | 0 | 22.87 | **18.18** | 30 | -11.82 |
| | | | | 1 | 99 | 22.79 | 18.10 | 30 | -11.9 |
| | | | | 50 | 25 | 21.37 | 16.68 | 30 | -13.32 |
| | | | | 100 | 0 | 21.37 | 16.68 | 30 | -13.32 |
| | 132572 | 1770 | 16QAM | 1 | 0 | 22.60 | 17.91 | 30 | -12.09 |
| | | | | 1 | 99 | 22.51 | 17.82 | 30 | -12.18 |
| | | | | 50 | 25 | 21.53 | 16.84 | 30 | -13.16 |
| | | | | 100 | 0 | 21.57 | 16.88 | 30 | -13.12 |

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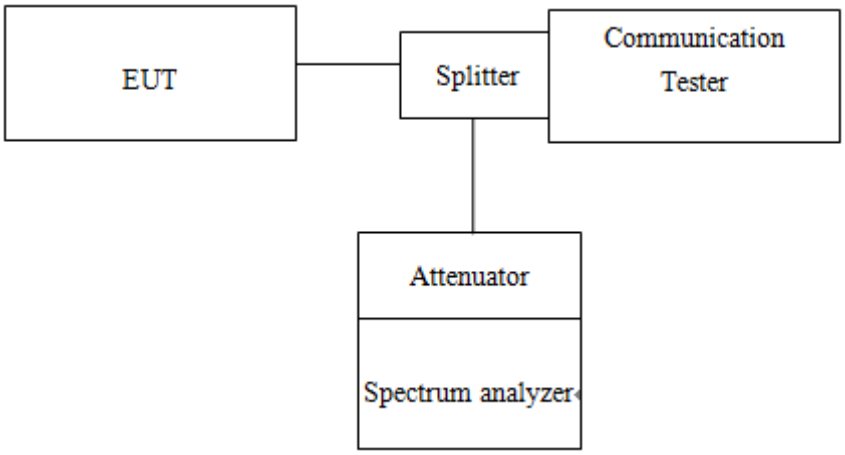
# 7. OCCUPIED BANDWIDTH MEASUREMENT

## 7.1. 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.

## 7.2. Test Set-up




## 7.3. 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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## 7.4. Measurement Equipment Used

| Conducted Emission (measured at antenna port) Test Site | | | | | |
|---|---|---|---|---|---|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | N9010A | MY51440113 | 2018/06/20 | 2019/06/19 |
| Radio Communication Analyer | Anritsu | MT8820C | 6201107337 | 2018/06/15 | 2019/06/14 |
| DC Power Supply | Agilent | E3640A | MY53130054 | 2017/09/04 | 2018/09/03 |
| Attenuator | Marvelous | MVE2213-10 | RF30 | 2017/12/26 | 2018/12/25 |
| Splitter | Woken | DOM35LW1A2 | RF36 | 2017/12/26 | 2018/12/25 |

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## 7.5. Measurement Result

| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
|---|---|---|---|---|---|---|---|
| | | WCDMA II | HSDPA II | HSUPA II | WCDMA II | HSDPA II | HSUPA II |
| 1852.40 | 9262 | 4.05650 | 4.06520 | 4.05760 | 4.60350 | 4.59780 | 4.60750 |
| 1880.00 | 9400 | **4.07560** | 4.07160 | 4.06560 | **4.68960** | **4.64640** | 4.65000 |
| 1907.60 | 9538 | 4.07390 | **4.08100** | **4.07370** | 4.63680 | 4.63340 | **4.65370** |

| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
|---|---|---|---|---|---|---|---|
| | | WCDMA IV | HSDPA IV | HSUPA IV | WCDMA IV | HSDPA IV | HSUPA IV |
| 1712.40 | 1312 | 4.06420 | 4.06640 | 4.07000 | 4.66300 | 4.61400 | 4.62000 |
| 1732.60 | 1413 | **4.09390** | **4.09380** | **4.09290** | **4.74200** | **4.70800** | **4.74100** |
| 1752.60 | 1513 | 4.06330 | 4.06690 | 4.06230 | 4.63400 | 4.59900 | 4.62800 |

| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
|---|---|---|---|---|---|---|---|
| | | WCDMA V | HSDPA V | HSUPA V | WCDMA V | HSDPA V | HSUPA V |
| 826.40 | 4132 | 4.08400 | 4.08550 | 4.08130 | **4.68640** | 4.66110 | 4.66250 |
| 836.60 | 4183 | 4.06950 | 4.06770 | 4.05980 | 4.64930 | 4.62920 | 4.61600 |
| 846.60 | 4233 | **4.10310** | **4.09130** | **4.10300** | 4.66080 | **4.67280** | **4.68990** |

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| LTE BAND 2 Channel bandwidth: 1.4MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1850.7 | 18607 | 1.1076 | 1.1103 | 1.2610 | 1.2554 |
| 1880.0 | 18900 | 1.1032 | 1.1075 | 1.2531 | 1.2522 |
| 1909.3 | 19193 | **1.1186** | **1.1125** | **1.3313** | **1.2668** |

| LTE BAND 2 Channel bandwidth: 3MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1851.5 | 18615 | 2.7331 | 2.7273 | 3.0288 | **3.0238** |
| 1880.0 | 18900 | 2.7275 | 2.7188 | 3.0085 | 3.0154 |
| 1908.5 | 19185 | **2.7376** | **2.7366** | **3.2554** | 3.0235 |

| LTE BAND 2 Channel bandwidth: 5MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1852.5 | 18625 | **4.5398** | **4.5240** | 5.1854 | 4.9436 |
| 1880.0 | 18900 | 4.5202 | 4.5114 | 4.9962 | 4.9473 |
| 1907.5 | 19175 | 4.5374 | 4.5231 | **5.6242** | **4.9847** |

| LTE BAND 2 Channel bandwidth: 10MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1855.0 | 18650 | **9.0790** | **9.0943** | **10.493** | 10.551 |
| 1880.0 | 18900 | 9.0585 | 9.0583 | 10.481 | **10.553** |
| 1905.0 | 19150 | 9.0401 | 9.0293 | 10.490 | 10.455 |

| LTE BAND 2 Channel bandwidth: 15MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1857.5 | 18675 | **13.550** | 13.537 | **15.915** | 15.678 |
| 1880.0 | 18900 | 13.548 | **13.547** | 15.867 | **15.853** |
| 1902.5 | 19125 | 13.484 | 13.502 | 15.631 | 15.442 |

| LTE BAND 2 Channel bandwidth: 20MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1860.0 | 18700 | **18.055** | **18.019** | **20.195** | **20.116** |
| 1880.0 | 18900 | 17.966 | 18.013 | 20.064 | 20.012 |
| 1900.0 | 19100 | 17.963 | 17.966 | 19.981 | 20.076 |

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| LTE BAND 4 Channel bandwidth: 1.4MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1710.7 | 19957 | **1.1146** | 1.1067 | **1.2683** | 1.2549 |
| 1732.5 | 20175 | 1.1096 | **1.1090** | 1.2575 | **1.2618** |
| 1754.3 | 20393 | 1.1094 | 1.1071 | 1.2511 | 1.2616 |

| LTE BAND 4 Channel bandwidth: 3MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1711.5 | 19965 | 2.7339 | **2.7277** | 3.0167 | 3.0106 |
| 1732.5 | 20175 | 2.7246 | 2.7173 | **3.0172** | 3.0120 |
| 1753.5 | 20385 | **2.7398** | 2.7268 | 2.9981 | **3.0195** |

| LTE BAND 4 Channel bandwidth: 5MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1712.5 | 19957 | **4.5262** | 4.5163 | 4.9972 | 4.9693 |
| 1732.5 | 20175 | 4.5175 | 4.5141 | 5.0450 | **4.9907** |
| 1752.5 | 20375 | 4.5130 | **4.5173** | **5.0592** | 4.9703 |

| LTE BAND 4 Channel bandwidth: 10MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1715.0 | 20000 | 9.0392 | 9.0610 | 10.464 | 10.362 |
| 1732.5 | 20175 | **9.0772** | **9.1064** | **10.585** | **10.583** |
| 1750.0 | 20350 | 9.0724 | 9.1031 | 10.490 | 10.476 |

| LTE BAND 4 Channel bandwidth: 15MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1717.5 | 20025 | 13.510 | 13.494 | 15.535 | 15.334 |
| 1732.5 | 20175 | 13.573 | **13.568** | 15.741 | **15.778** |
| 1747.5 | 20325 | **13.595** | **13.568** | **16.069** | 15.719 |

| LTE BAND 4 Channel bandwidth: 20MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1720.0 | 20050 | 17.909 | 17.899 | 19.811 | 19.915 |
| 1732.5 | 20175 | 18.030 | 18.026 | **20.242** | 20.106 |
| 1745.0 | 20300 | **18.110** | **18.105** | 20.179 | **20.166** |

| LTE BAND 5 Channel bandwidth: 1.4MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 824.7 | 20407 | 1.1036 | 1.1039 | **1.2600** | 1.2579 |
| 836.5 | 20525 | 1.0995 | 1.1081 | 1.2519 | 1.2606 |
| 848.3 | 20643 | **1.1069** | **1.1108** | 1.2580 | **1.2610** |

| LTE BAND 5 Channel bandwidth: 3MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 825.5 | 20415 | 2.7234 | 2.7246 | 3.0000 | 3.0133 |
| 836.5 | 20525 | 2.7192 | 2.7204 | **3.0162** | 3.0206 |
| 847.5 | 20635 | **2.7238** | **2.7284** | 3.0026 | **3.0330** |

| LTE BAND 5 Channel bandwidth: 5MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 826.5 | 20425 | **4.5406** | 4.5121 | 4.9920 | 4.9469 |
| 836.5 | 20525 | 4.5312 | 4.5183 | 4.9850 | 4.9539 |
| 846.5 | 20625 | 4.5283 | **4.5222** | **5.0195** | **4.9648** |

| LTE BAND 5 Channel bandwidth: 10MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 829.0 | 20450 | 9.0741 | 9.0716 | 10.458 | 10.535 |
| 836.5 | 20525 | **9.0941** | **9.0751** | **10.585** | **10.574** |
| 844.0 | 20600 | 9.0443 | 9.0539 | 10.509 | 10.458 |

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| LTE BAND 7 Channel bandwidth: 5MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 2502.5 | 20775 | 4.5285 | 4.5047 | 5.0686 | 4.9543 |
| 2535.0 | 21100 | 4.5301 | 4.5225 | 5.0180 | 4.9660 |
| 2567.5 | 21425 | **4.5331** | **4.5252** | **5.0839** | **5.0010** |

| LTE BAND 7 Channel bandwidth: 10MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 2505.0 | 20800 | 9.0742 | **9.0981** | **10.607** | 10.587 |
| 2535.0 | 21100 | **9.1090** | 9.0568 | 10.523 | **10.652** |
| 2565.0 | 21400 | 9.0836 | 9.0836 | 10.520 | 10.512 |

| LTE BAND 7 Channel bandwidth: 15MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 2507.5 | 20825 | **13.577** | 13.572 | 15.938 | 15.888 |
| 2535.0 | 21100 | 13.565 | 13.562 | 15.674 | 15.805 |
| 2562.5 | 21375 | 13.560 | **13.583** | **16.029** | **15.895** |

| LTE BAND 7 Channel bandwidth: 20MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 2510.0 | 20850 | 18.035 | **18.120** | **20.471** | **20.499** |
| 2535.0 | 21100 | 17.992 | 18.030 | 20.187 | 20.454 |
| 2560.0 | 21350 | **18.064** | 18.052 | 20.193 | 20.194 |

| LTE BAND 12 Channel bandwidth: 1.4MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 699.7 | 23017 | **1.1094** | 1.1087 | 1.2539 | **1.2674** |
| 707.5 | 23095 | 1.1079 | 1.1098 | 1.2604 | 1.2612 |
| 715.3 | 23173 | 1.1090 | **1.1104** | **1.2671** | 1.2648 |

| LTE BAND 12 Channel bandwidth: 3MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 700.5 | 23025 | **2.7290** | 2.7198 | 3.0115 | 3.0159 |
| 707.5 | 23095 | 2.7226 | **2.7277** | 3.0184 | 3.0186 |
| 714.5 | 23165 | 2.7275 | 2.7269 | **3.0881** | **3.0951** |

| LTE BAND 12 Channel bandwidth: 5MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 701.5 | 23035 | 4.5154 | 4.4901 | 5.0206 | 4.9506 |
| 707.5 | 23095 | **4.5533** | **4.5417** | **5.0244** | **4.9972** |
| 713.5 | 23155 | 4.5132 | 4.5040 | 5.0114 | 4.9277 |

| LTE BAND 12 Channel bandwidth: 10MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 704.0 | 23060 | 9.0616 | 9.0522 | 10.415 | 10.382 |
| 707.5 | 23095 | **9.1718** | **9.1585** | **10.690** | **10.688** |
| 711.0 | 23130 | 9.0305 | 9.0196 | 10.424 | 10.362 |

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| LTE BAND 12 Channel bandwidth: 1.4MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 699.7 | 23017 | **1.1094** | 1.1087 | 1.2539 | **1.2674** |
| 707.5 | 23095 | 1.1079 | 1.1098 | 1.2604 | 1.2612 |
| 715.3 | 23173 | 1.1090 | **1.1104** | **1.2671** | 1.2648 |

| LTE BAND 12 Channel bandwidth: 3MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 700.5 | 23025 | **2.7290** | 2.7198 | 3.0115 | 3.0159 |
| 707.5 | 23095 | 2.7226 | **2.7277** | 3.0184 | 3.0186 |
| 714.5 | 23165 | 2.7275 | 2.7269 | **3.0881** | **3.0951** |

| LTE BAND 12 Channel bandwidth: 5MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 701.5 | 23035 | 4.5154 | 4.4901 | 5.0206 | 4.9506 |
| 707.5 | 23095 | **4.5533** | **4.5417** | **5.0244** | **4.9972** |
| 713.5 | 23155 | 4.5132 | 4.5040 | 5.0114 | 4.9277 |

| LTE BAND 12 Channel bandwidth: 10MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 704.0 | 23060 | 9.0616 | 9.0522 | 10.415 | 10.382 |
| 707.5 | 23095 | **9.1718** | **9.1585** | **10.690** | **10.688** |
| 711.0 | 23130 | 9.0305 | 9.0196 | 10.424 | 10.362 |

| LTE BAND 13 Channel bandwidth: 5MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 779.5 | 23205 | 4.5321 | **4.5360** | **5.6209** | **6.2759** |
| 782.0 | 23230 | 4.5144 | 4.5176 | 5.1118 | 4.9843 |
| 784.5 | 23255 | **4.5478** | 4.5224 | 5.1096 | 4.9827 |

| LTE BAND 13 Channel bandwidth: 10MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 782.0 | 23230 | **9.015** | **9.019** | **10.417** | **10.460** |

| LTE BAND 14 Channel bandwidth: 5MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 790.5 | 23305 | 4.4960 | 4.5148 | 4.9440 | **5.1830** |
| 793.0 | 23330 | 4.5061 | **4.5453** | 4.9510 | 4.9410 |
| 795.5 | 23355 | **4.5269** | 4.5260 | **4.9540** | 4.9830 |

| LTE BAND 14 Channel bandwidth: 10MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 793.0 | 23330 | **9.061** | **9.063** | **10.460** | **10.390** |

| LTE BAND 17 Channel bandwidth: 5MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 706.5 | 23755 | **4.5408** | **4.5285** | **5.0120** | **4.9650** |
| 710.0 | 23790 | 4.5257 | 4.5194 | 4.9750 | 4.9520 |
| 713.5 | 23825 | 4.5201 | 4.4996 | 5.0000 | 4.9310 |

| LTE BAND 17 Channel bandwidth: 10MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 709.0 | 23780 | **9.1189** | **9.1272** | **10.520** | **10.490** |
| 710.0 | 23790 | 9.0786 | 9.0672 | 10.400 | 10.470 |
| 711.0 | 23800 | 9.0438 | 9.0229 | 10.470 | 10.360 |

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| LTE BAND 25 Channel bandwidth: 1.4MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1850.7 | 26047 | 1.1095 | **1.1094** | 1.259 | **1.260** |
| 1882.5 | 26365 | 1.1100 | 1.1023 | **1.264** | 1.255 |
| 1914.3 | 26683 | **1.1135** | 1.1079 | 1.253 | 1.258 |

| LTE BAND 25 Channel bandwidth: 3MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1851.5 | 26055 | 2.7163 | 2.7188 | 3.004 | **3.020** |
| 1882.5 | 26365 | 2.7255 | **2.7292** | 3.015 | 3.009 |
| 1913.5 | 26675 | 2.7169 | 2.7223 | 3.018 | 3.004 |

| LTE BAND 25 Channel bandwidth: 5MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1852.5 | 26065 | 4.5305 | 4.5181 | 4.968 | 4.936 |
| 1882.5 | 26365 | 4.5165 | **4.5200** | 4.997 | **4.988** |
| 1912.5 | 26665 | **4.5431** | 4.5160 | **5.028** | 4.972 |

| LTE BAND 25 Channel bandwidth: 10MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1855.0 | 26090 | 9.0939 | 9.0444 | **10.580** | 10.400 |
| 1882.5 | 26365 | 9.0506 | 9.0379 | 10.540 | 10.470 |
| 1910.0 | 26640 | 9.0947 | **9.1099** | **10.580** | **10.550** |

| LTE BAND 25 Channel bandwidth: 15MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1857.5 | 26115 | 13.508 | 13.524 | 15.57 | 15.55 |
| 1882.5 | 26365 | 13.500 | 13.512 | 15.55 | 15.35 |
| 1907.5 | 26615 | **13.564** | **13.535** | **15.87** | **15.73** |

| LTE BAND 25 Channel bandwidth: 20MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1860.0 | 26140 | 17.9970 | 17.9730 | 19.910 | 19.940 |
| 1882.5 | 26365 | 17.9680 | 17.9630 | 20.110 | 20.200 |
| 1905.0 | 26590 | **18.0340** | **18.0170** | 20.280 | **21.220** |

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| LTE BAND 26 Channel bandwidth: 1.4MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 814.7 | 26697 | 1.1053 | **1.1083** | **1.2650** | **1.2640** |
| 831.5 | 26865 | 1.1033 | 1.1033 | 1.2550 | 1.2550 |
| 848.3 | 27033 | **1.1113** | 1.1070 | 1.2610 | 1.2610 |

| LTE BAND 26 Channel bandwidth: 3MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 815.5 | 26705 | 2.7198 | 2.7172 | 3.0160 | 3.0100 |
| 831.5 | 26865 | 2.7220 | 2.7218 | 2.9990 | **3.0160** |
| 847.5 | 27025 | **2.7326** | **2.7251** | **3.0170** | 3.0060 |

| LTE BAND 26 Channel bandwidth: 5MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 816.5 | 26715 | **4.5302** | **4.5150** | 4.9690 | 4.9410 |
| 831.5 | 26865 | 4.5066 | 4.5147 | **4.9820** | 4.9570 |
| 846.5 | 27015 | 4.5180 | 4.5139 | 4.9640 | **4.9720** |

| LTE BAND 26 Channel bandwidth: 10MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 820.0 | 26800 | **9.0730** | **9.0747** | **10.560** | **10.520** |
| 831.5 | 26865 | 9.0580 | 9.0733 | 10.520 | 10.500 |
| 844.0 | 26990 | 9.0615 | 9.0463 | 10.490 | 10.440 |

| LTE BAND 26 Channel bandwidth: 15MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 822.5 | 26825 | **13.575** | **13.575** | 16.010 | 15.650 |
| 831.5 | 26865 | 13.528 | 13.553 | 15.530 | 15.610 |
| 841.5 | 26965 | 13.529 | 13.547 | **16.160** | **15.740** |

| LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 814.7 | 26697 | 1.1075 | 1.1068 | **1.2600** | **1.2620** |
| 819.0 | 26740 | **1.1088** | 1.1051 | 1.2590 | 1.2610 |
| 823.3 | 26783 | 1.1039 | **1.1140** | 1.2580 | 1.2590 |

| LTE BAND 26 for part 90S Channel bandwidth: 3MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 815.5 | 26705 | 2.7197 | 2.7157 | 3.0060 | 3.0110 |
| 819.0 | 26740 | 2.7148 | **2.7196** | **3.0120** | **3.0160** |
| 822.5 | 26775 | **2.7227** | 2.7163 | 3.0040 | 3.0110 |

| LTE BAND 26 for part 90S Channel bandwidth: 5MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 816.5 | 26715 | **4.5301** | 4.5100 | 4.9380 | **4.9880** |
| 819.0 | 26740 | 4.5144 | 4.5194 | 4.9420 | 4.9320 |
| 821.5 | 26765 | 4.5234 | **4.5223** | **4.9780** | 4.9710 |

| LTE BAND 26 for part 90S Channel bandwidth: 10MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 819.0 | 26740 | **9.0750** | **9.1125** | **10.570** | **10.570** |

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| LTE BAND 30 Channel bandwidth: 5MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 2307.5 | 27685 | **4.5252** | 4.5180 | **4.9570** | 4.9540 |
| 2310.0 | 27710 | 4.5086 | 4.5051 | 4.9380 | **4.9850** |
| 2312.5 | 27735 | 4.5243 | **4.5294** | 4.9490 | 4.9820 |

| LTE BAND 30 Channel bandwidth: 10MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | 16QAM | QPSK |
| 2310.0 | 27710 | **9.0498** | **9.0462** | **10.5000** | **10.4800** |

| LTE BAND 38 Channel bandwidth: 5MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 2572.5 | 37775 | 4.5371 | 4.5399 | 4.9860 | 5.1330 |
| 2595.0 | 38000 | 4.5263 | 4.5012 | 5.3770 | 4.9520 |
| 2617.5 | 38225 | 4.5308 | 4.5306 | 5.0070 | 4.9270 |

| LTE BAND 38 Channel bandwidth: 10MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 2575.0 | 37800 | 9.0677 | 9.0415 | 10.340 | 10.620 |
| 2595.0 | 38000 | 9.0613 | 9.0455 | 10.480 | 10.460 |
| 2615.0 | 38200 | 9.0735 | 9.0445 | 10.500 | 10.520 |

| LTE BAND 38 Channel bandwidth: 15MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 2577.5 | 37825 | 13.552 | 13.555 | 15.890 | 15.770 |
| 2595.0 | 38000 | 13.543 | 13.551 | 15.830 | 15.770 |
| 2612.5 | 38175 | 13.563 | 13.555 | 16.230 | 15.710 |

| LTE BAND 38 Channel bandwidth: 20MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 2580.0 | 37850 | 18.022 | 18.026 | 19.980 | 20.490 |
| 2595.0 | 38000 | 17.996 | 18.035 | 20.030 | 20.050 |
| 2610.0 | 38150 | 18.055 | 18.030 | 20.760 | 22.820 |

| LTE BAND 41 Channel bandwidth: 5MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 2498.5 | 39675 | 4.5124 | 4.5110 | **5.1200** | 4.9690 |
| 2593.0 | 40620 | **4.5203** | **4.5171** | 5.0290 | **5.0920** |
| 2687.5 | 41565 | 4.5151 | 4.5089 | 5.0590 | 5.0610 |

| LTE BAND 41 Channel bandwidth: 10MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 2501.0 | 39700 | 9.0672 | 9.0629 | 10.420 | 10.480 |
| 2593.0 | 40620 | 9.0732 | **9.0778** | 10.470 | **10.750** |
| 2685.0 | 41540 | **9.1163** | 9.0408 | **10.670** | 10.400 |

| LTE BAND 41 Channel bandwidth: 15MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 2503.5 | 39725 | **13.536** | 13.535 | 15.840 | **16.000** |
| 2593.0 | 40620 | 13.531 | **13.578** | **15.980** | 15.680 |
| 2682.5 | 41515 | 13.527 | 13.563 | 15.680 | 15.640 |

| LTE BAND 41 Channel bandwidth: 20MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 2506.0 | 39750 | **18.043** | 18.006 | 20.560 | **21.060** |
| 2593.0 | 40620 | 18.019 | **18.051** | 20.110 | 20.130 |
| 2680.0 | 41490 | 18.012 | 18.032 | **20.570** | 20.210 |

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| LTE BAND 66 Channel bandwidth: 1.4MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1710.7 | 131979 | 1.1087 | 1.1109 | **1.2690** | 1.2620 |
| 1745.0 | 132322 | 1.1086 | **1.1118** | 1.2520 | **1.2640** |
| 1779.3 | 132665 | **1.1126** | 1.1091 | 1.2590 | 1.2610 |

| LTE BAND 66 Channel bandwidth: 3MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1711.5 | 131987 | **2.7261** | 2.7175 | **3.0170** | 3.0240 |
| 1745.0 | 132322 | 2.7217 | **2.7277** | 3.0070 | 3.0180 |
| 1778.5 | 132657 | 2.7229 | 2.7125 | 3.0140 | **3.0330** |

| LTE BAND 66 Channel bandwidth: 5MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1712.5 | 131997 | **4.5343** | **4.5265** | 4.9650 | 4.9480 |
| 1745.0 | 132322 | 4.5201 | 4.5196 | 4.9550 | 4.9540 |
| 1777.5 | 132647 | 4.5099 | 4.5129 | 4.9730 | **5.0900** |

| LTE BAND 66 Channel bandwidth: 10MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1715.0 | 132022 | 9.0614 | 9.0811 | 10.5200 | 10.5000 |
| 1745.0 | 132322 | **9.1116** | **9.0998** | 10.5700 | 10.4900 |
| 1775.0 | 132622 | 9.0878 | 9.0854 | 10.5900 | **10.6200** |

| LTE BAND 66 Channel bandwidth: 15MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1717.5 | 132047 | 13.5210 | 13.5130 | 15.3800 | 15.3600 |
| 1745.0 | 132322 | 13.5840 | 13.5490 | **16.1800** | 15.7000 |
| 1772.5 | 132597 | **13.5990** | **13.5690** | 16.1300 | 15.6600 |

| LTE BAND 66 Channel bandwidth: 20MHz | | | | | |
|---|---|---|---|---|---|
| Freq. (MHz) | CH | 99% BW (MHz) | | 26 dB BW (MHz) | |
| | | QPSK | 16QAM | QPSK | 16QAM |
| 1720.0 | 132072 | 17.9510 | 17.8900 | 19.9300 | 19.9100 |
| 1745.0 | 132322 | **18.0590** | **18.0830** | **20.4400** | 20.3500 |
| 1770.0 | 132572 | 18.0270 | 18.0280 | 20.1100 | 19.9600 |

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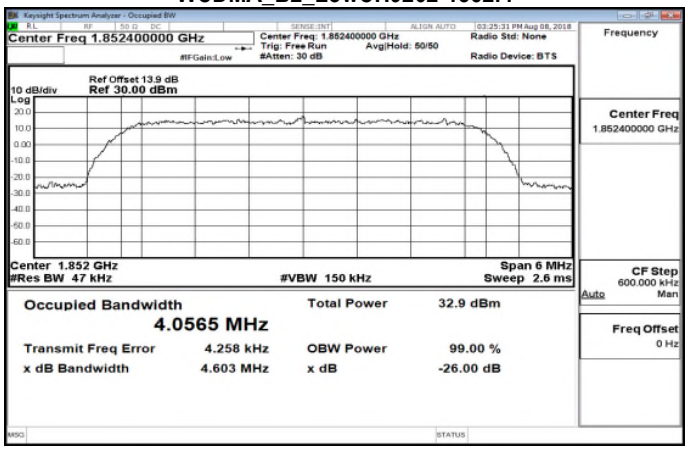
**WCDMA_B2_LowCH9262-1852.4**

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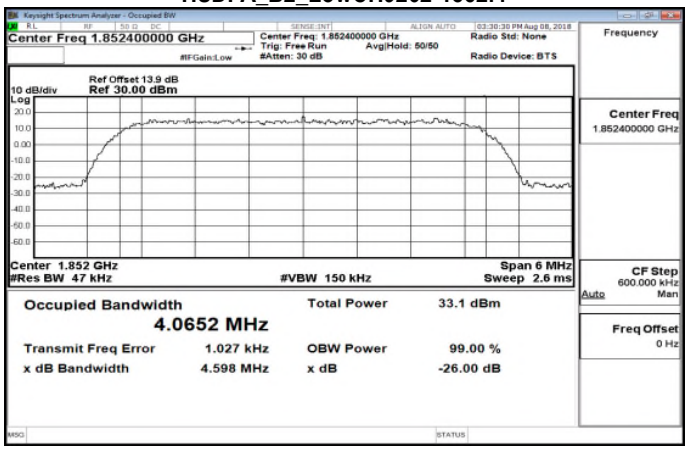


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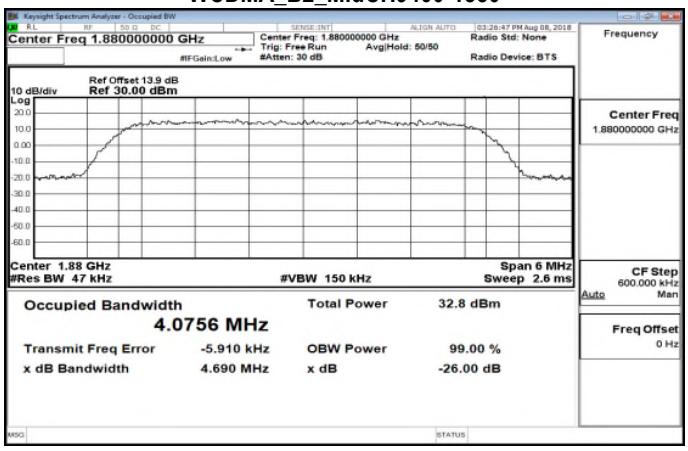


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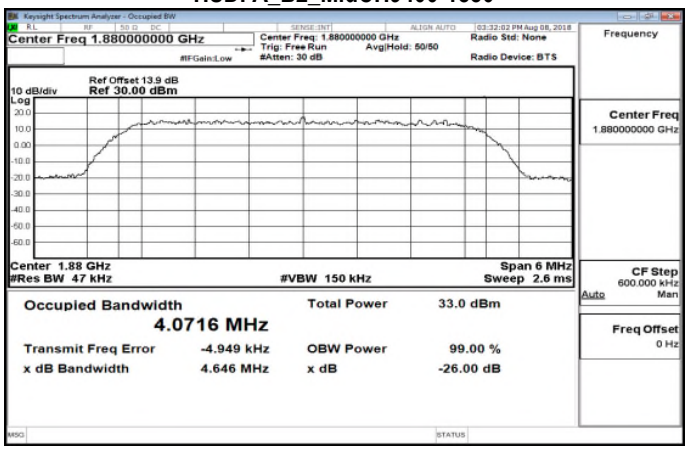


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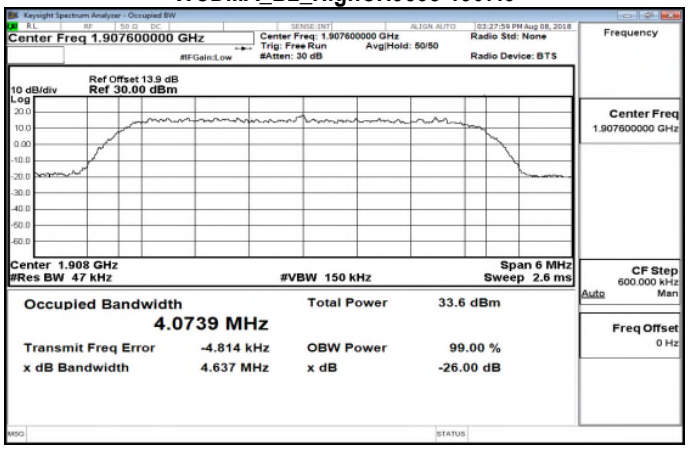


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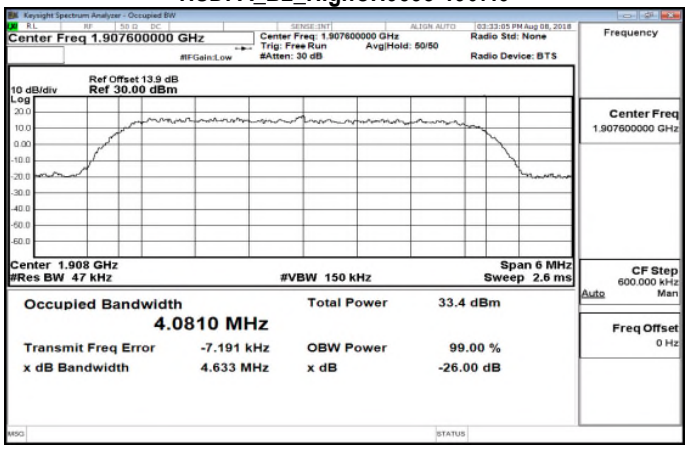


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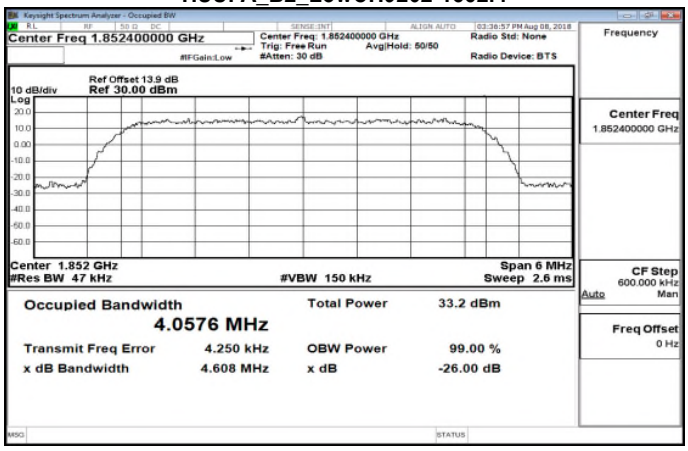


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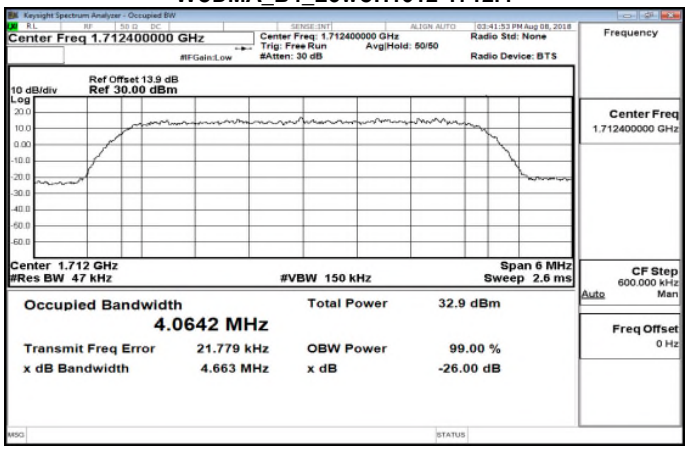


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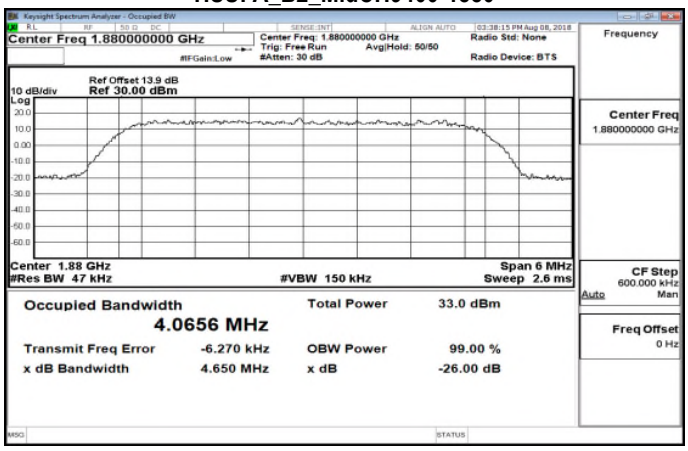


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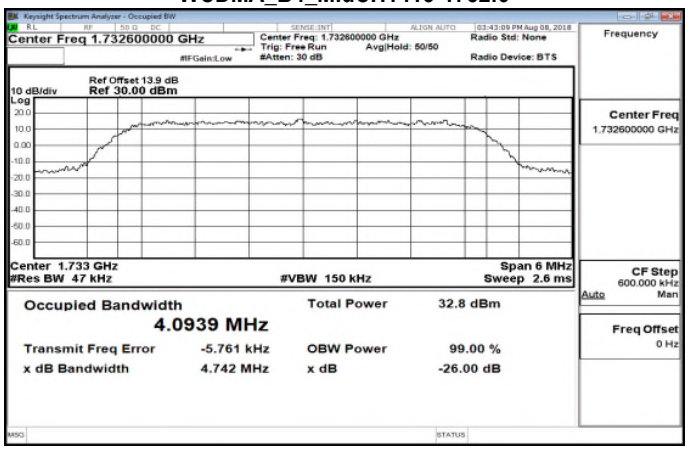


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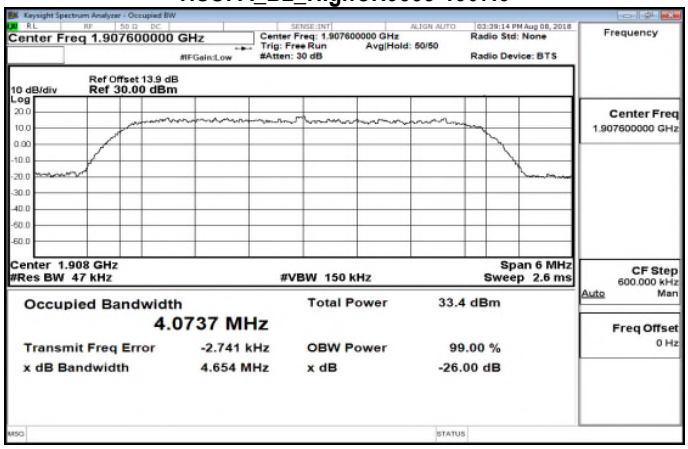


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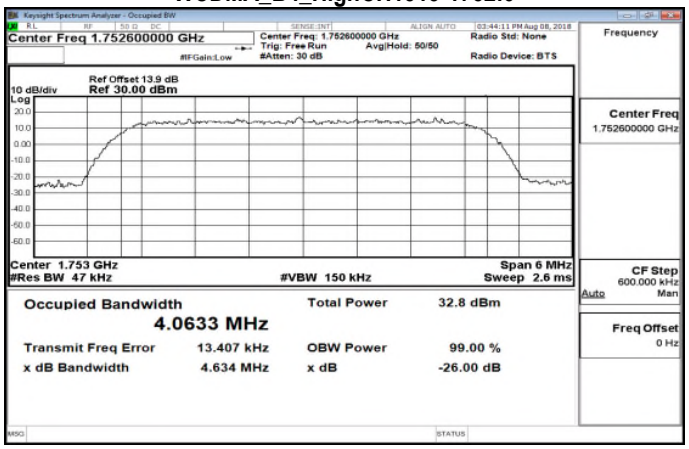


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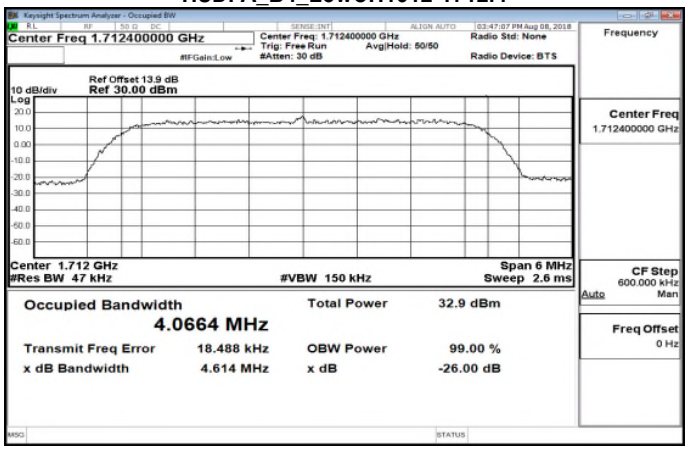


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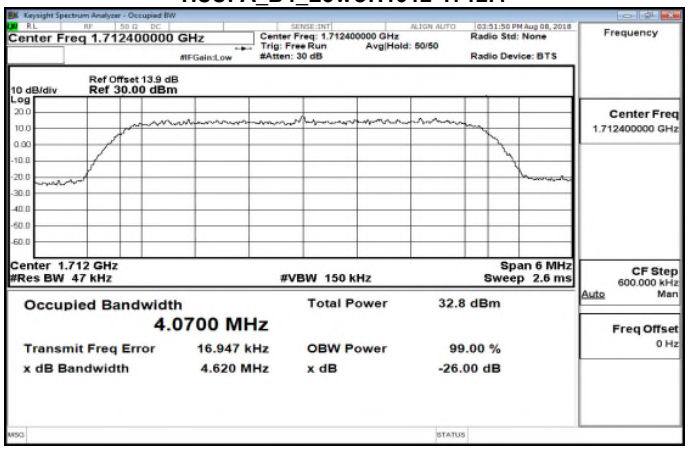


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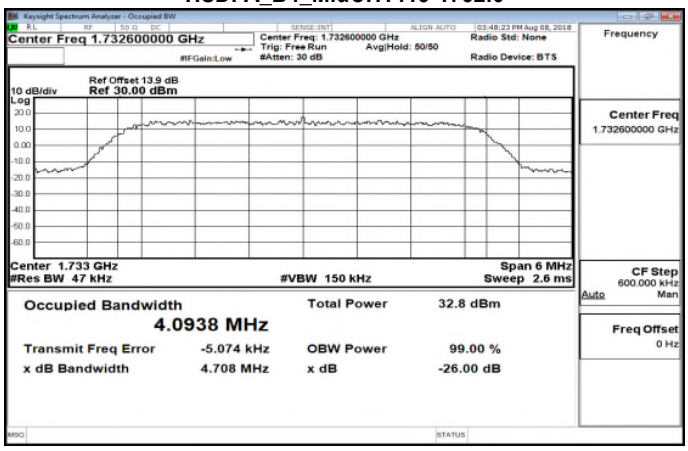


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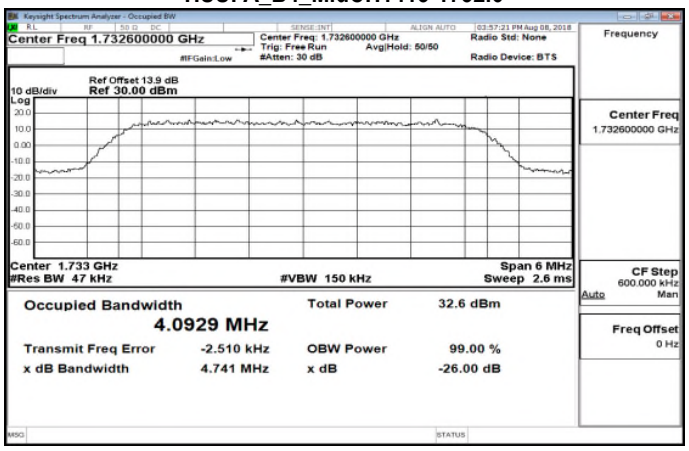


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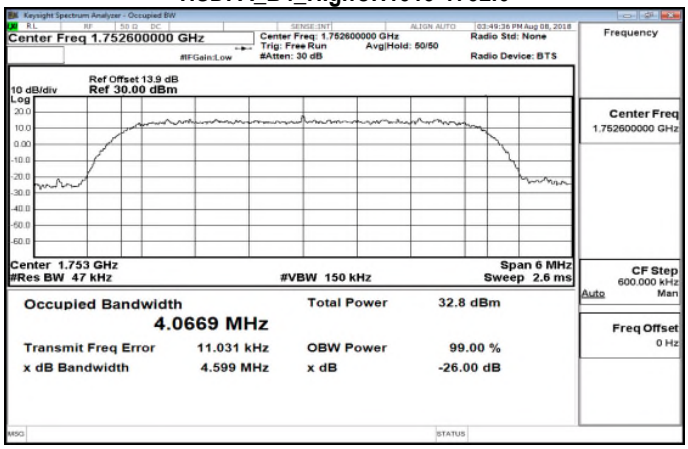


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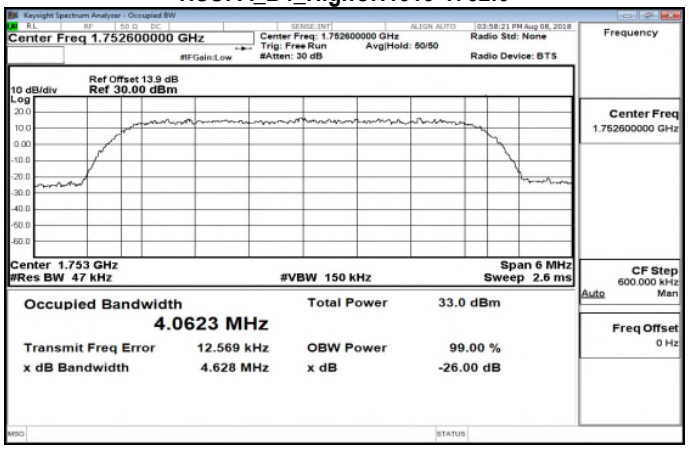


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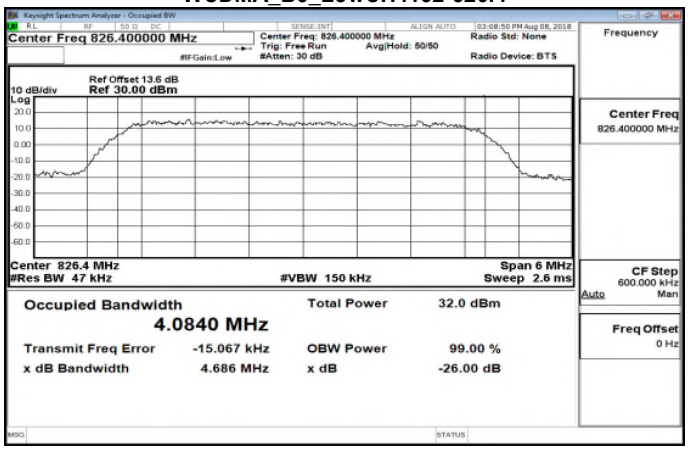
WCDMA_B5_LowCH4132-826.4

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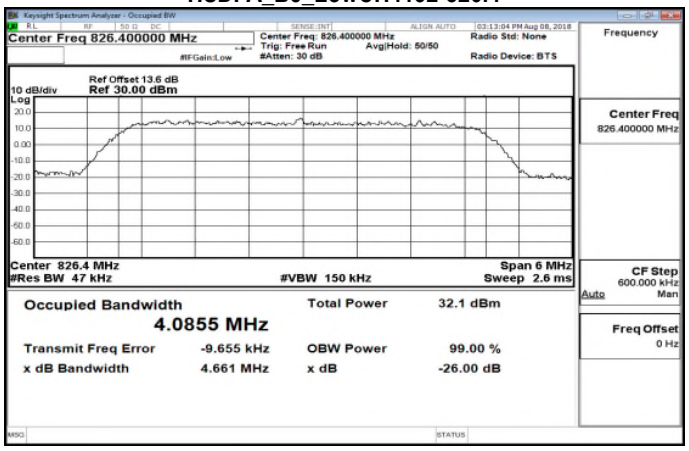


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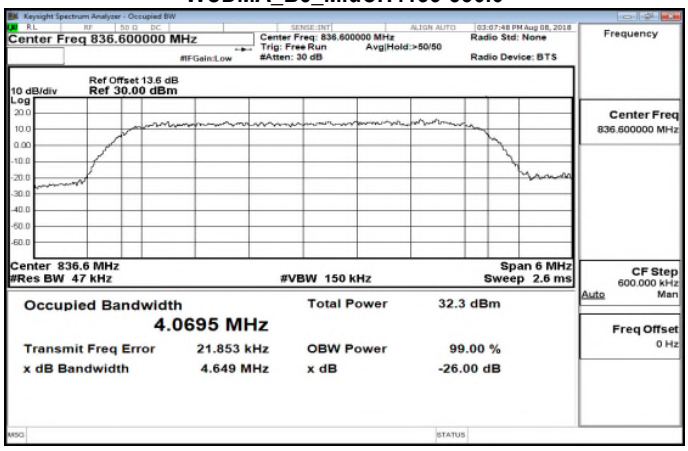


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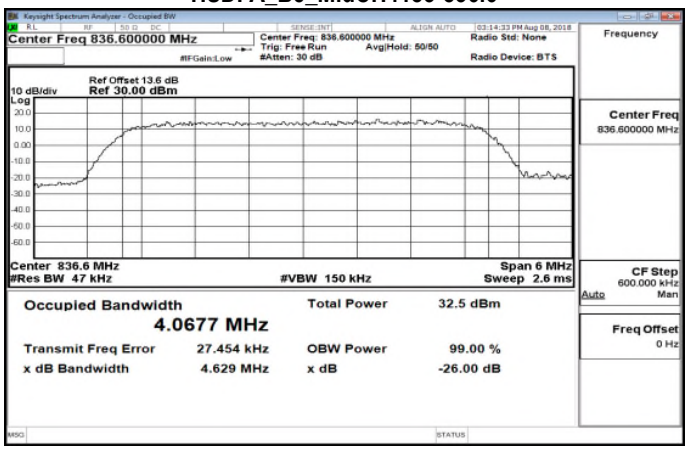


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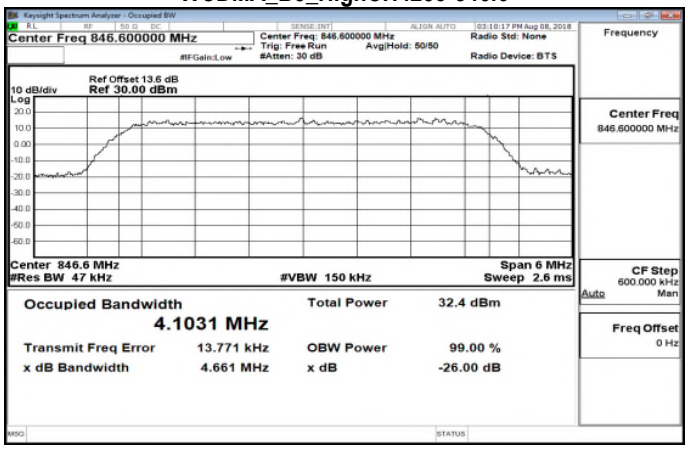


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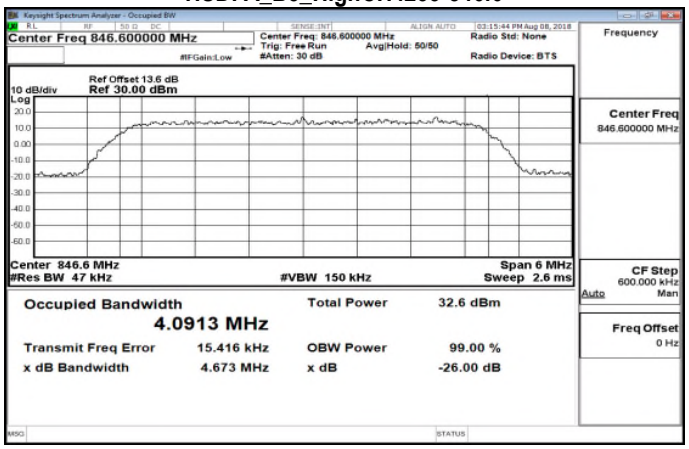


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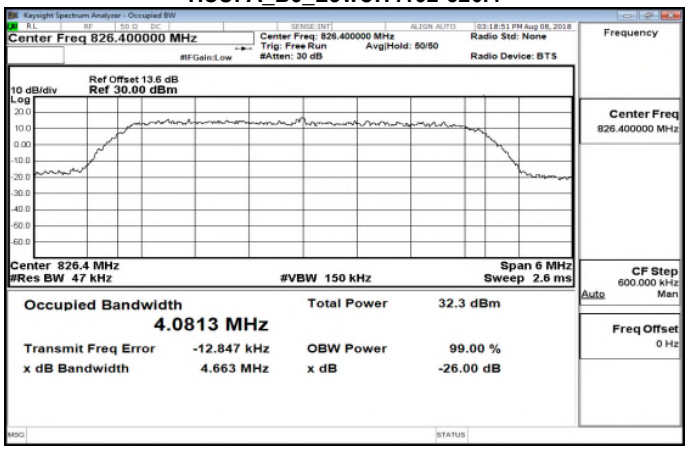
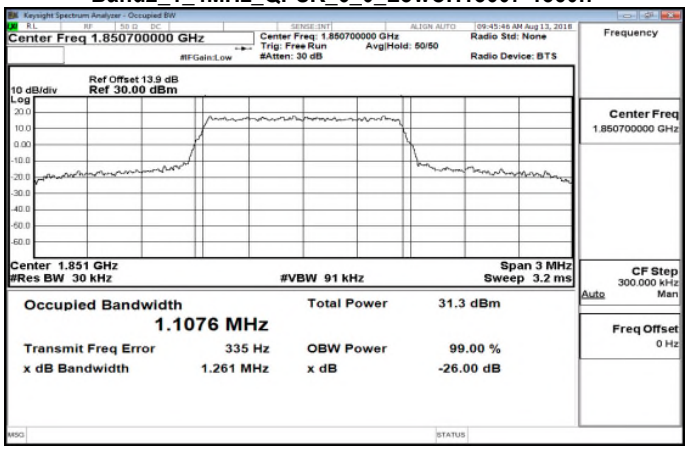
HSUPA_B5_LowCH4132-826.4




Band2_1_4MHz_QPSK_6_0_LowCH18607-1850.7

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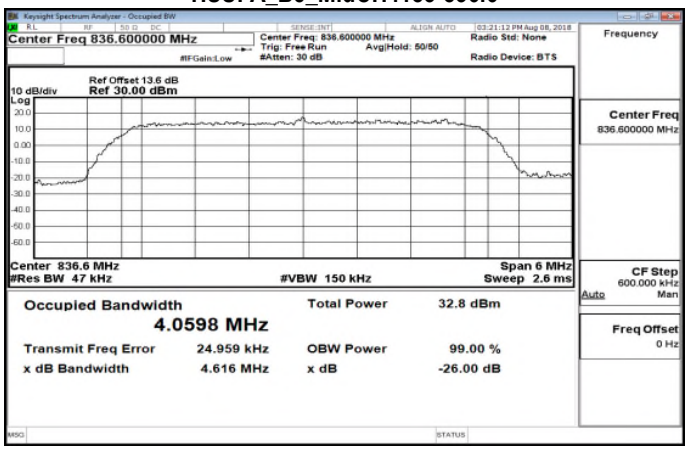
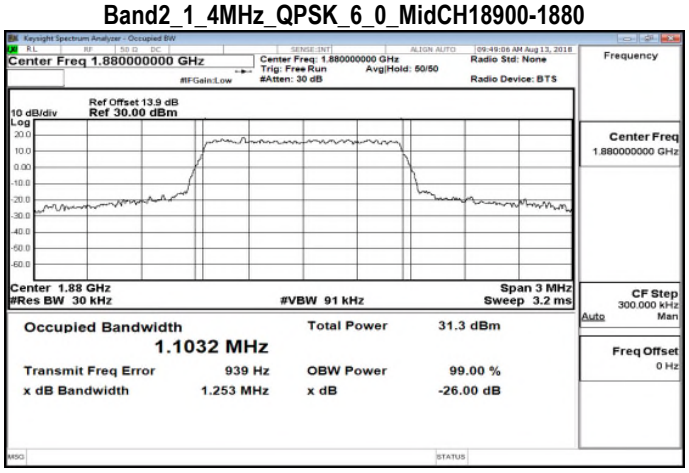



Band2_1_4MHz_QPSK_6_0_MidCH18900-1880

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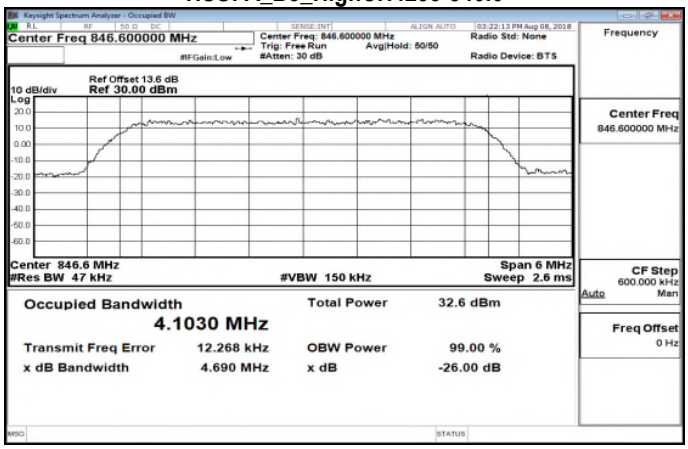
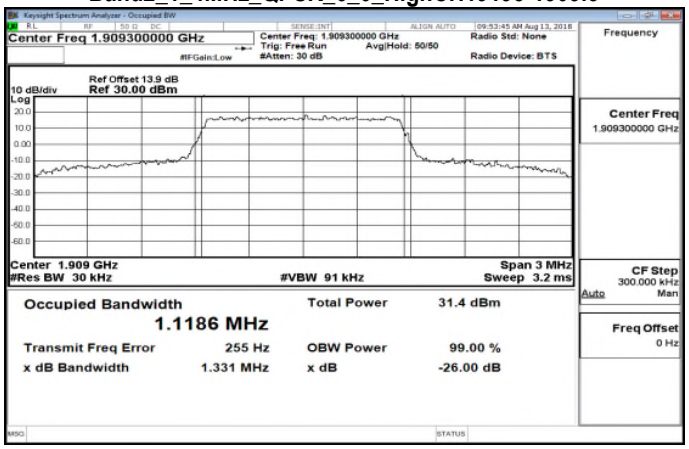



Band2_1_4MHz_QPSK_6_0_HighCH19193-1909.3

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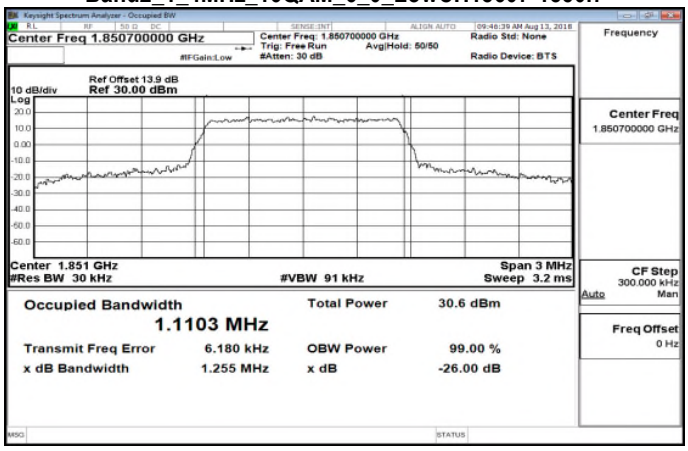
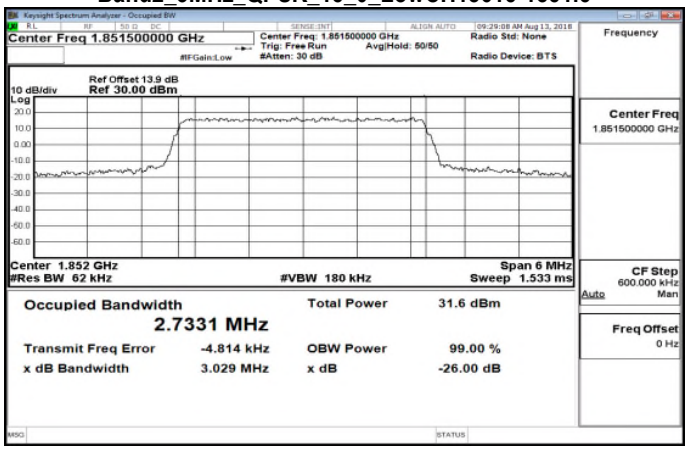
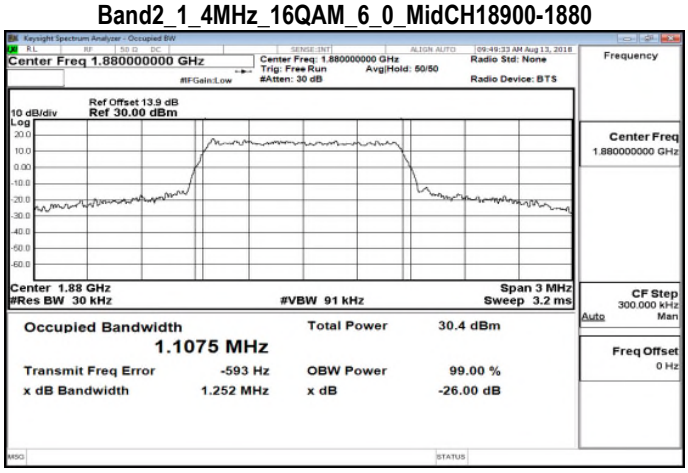
**Band2_1_4MHz_16QAM_6_0_LowCH18607-1850.7**




**Band2_3MHz_QPSK_15_0_LowCH18615-1851.5**




**Band2_1_4MHz_16QAM_6_0_MidCH18900-1880**

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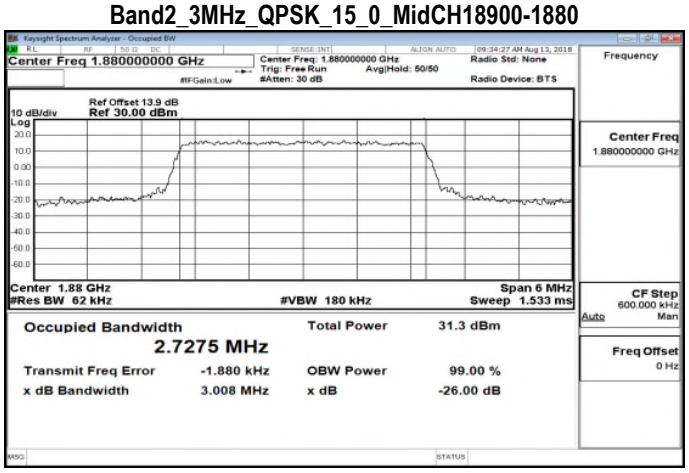
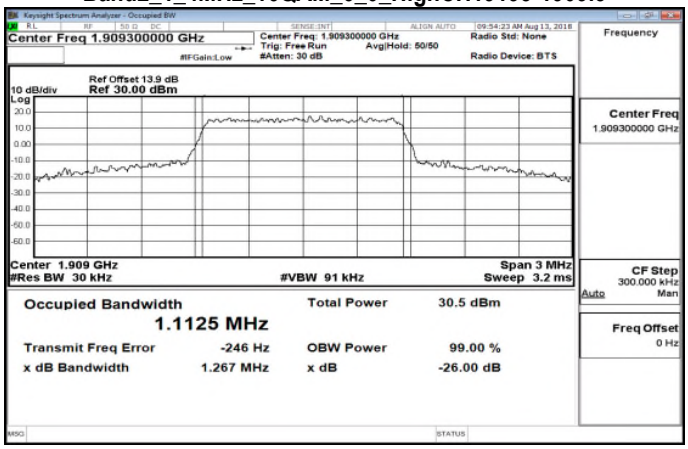
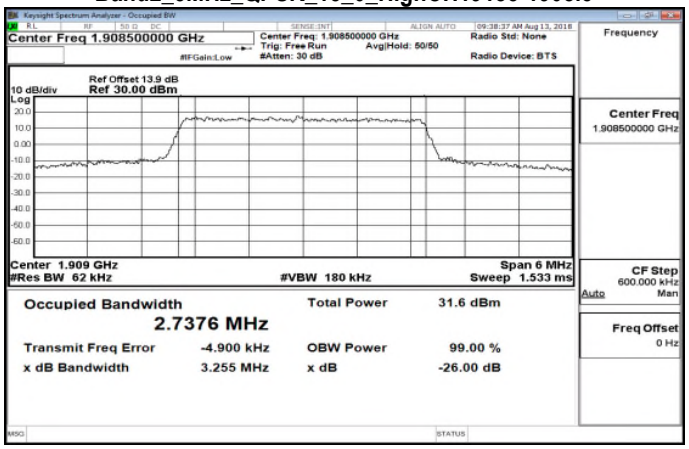



**Band2_1_4MHz_16QAM_6_0_HighCH19193-1909.3**




**Band2_3MHz_QPSK_15_0_HighCH19185-1908.5**

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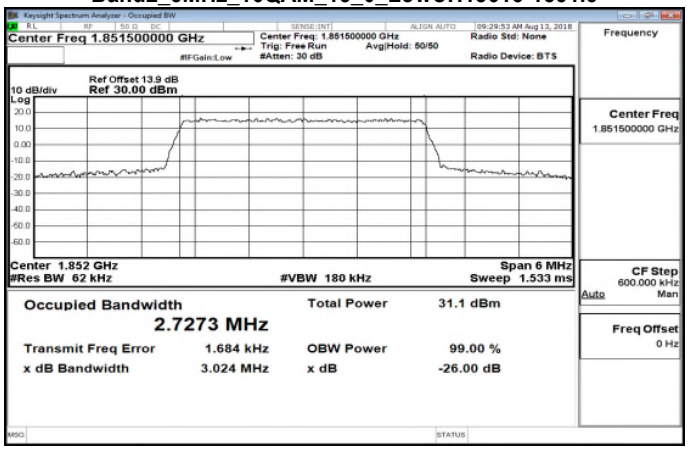
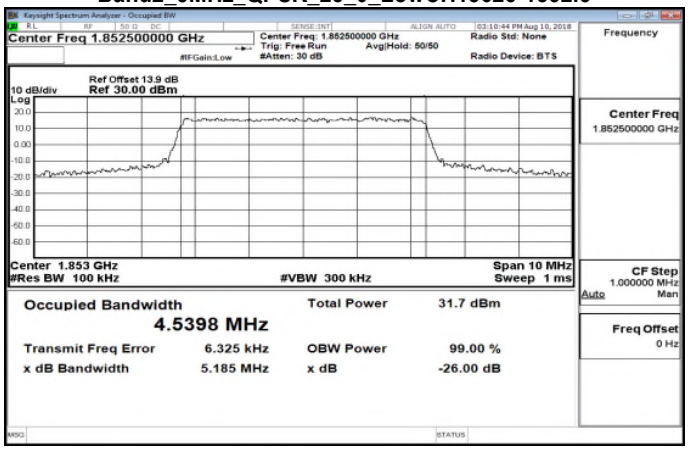
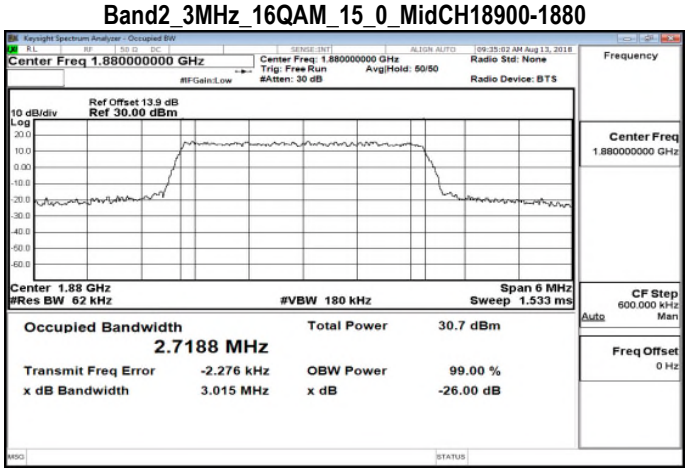
**Band2_3MHz_16QAM_15_0_LowCH18615-1851.5**



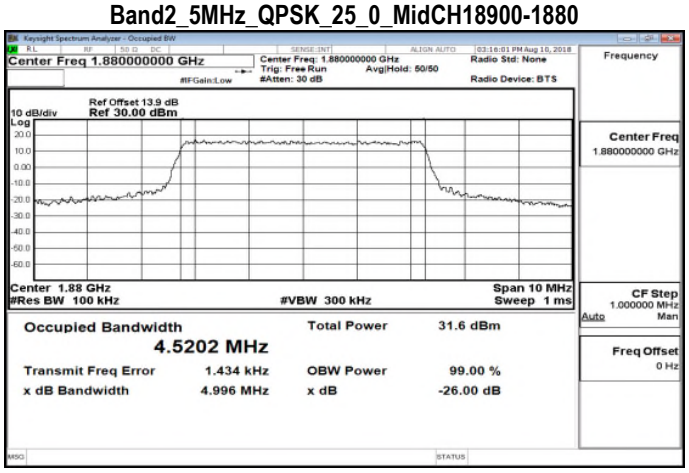

**Band2_5MHz_QPSK_25_0_LowCH18625-1852.5**



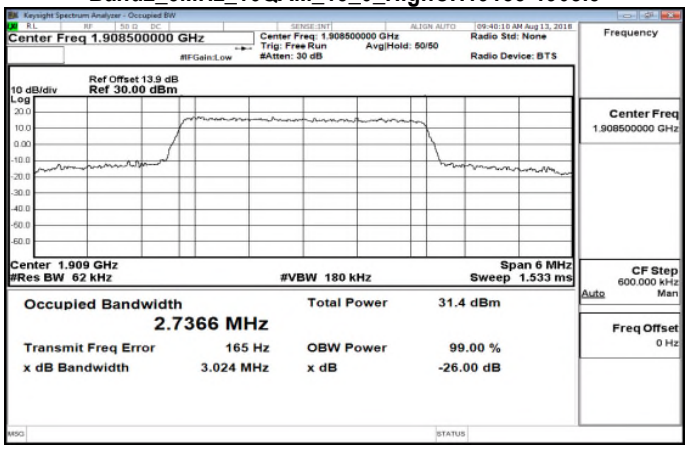

**Band2_3MHz_16QAM_15_0_MidCH18900-1880**



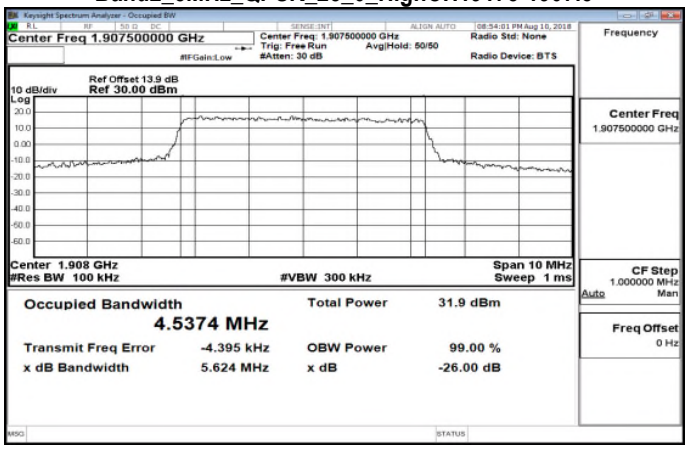

**Band2_5MHz_QPSK_25_0_MidCH18900-1880**




**Band2_3MHz_16QAM_15_0_HighCH19185-1908.5**




**Band2_5MHz_QPSK_25_0_HighCH19175-1907.5**

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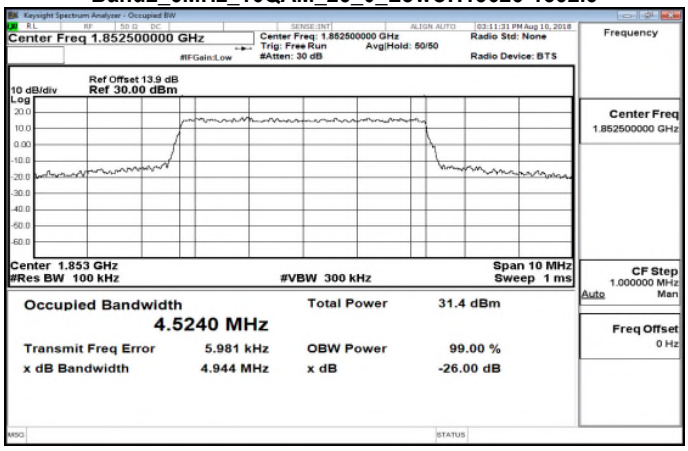
**Band2_5MHz_16QAM_25_0_LowCH18625-1852.5**

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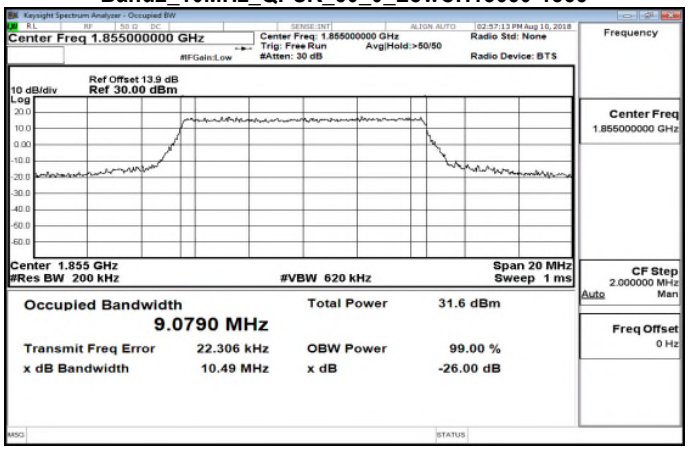
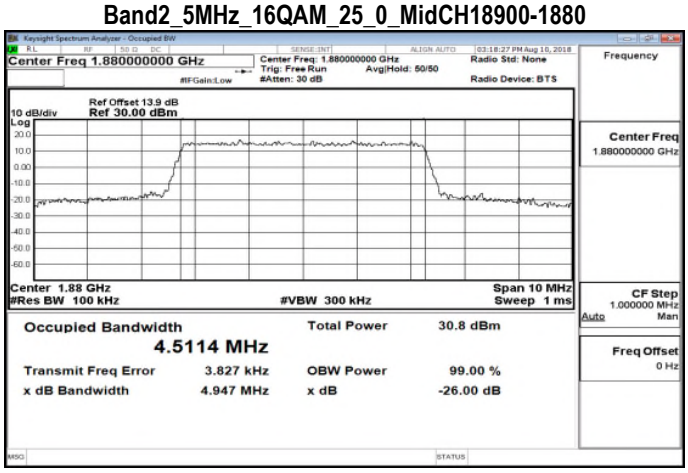
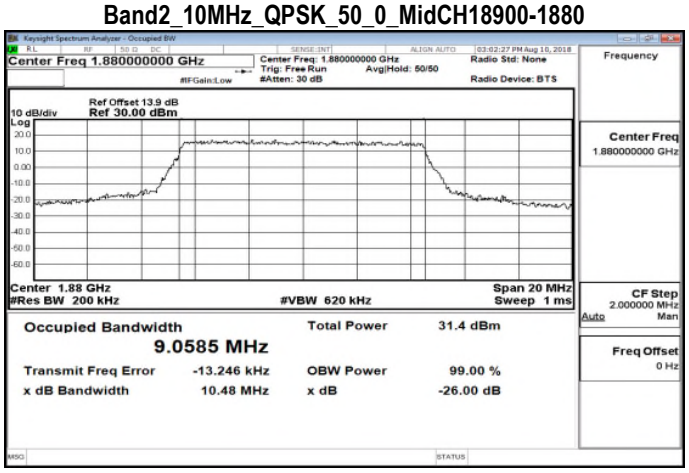


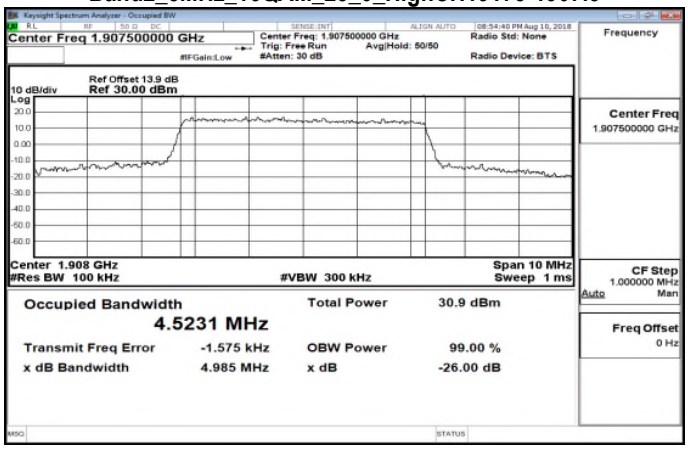

**Band2_5MHz_16QAM_25_0_MidCH18900-1880**



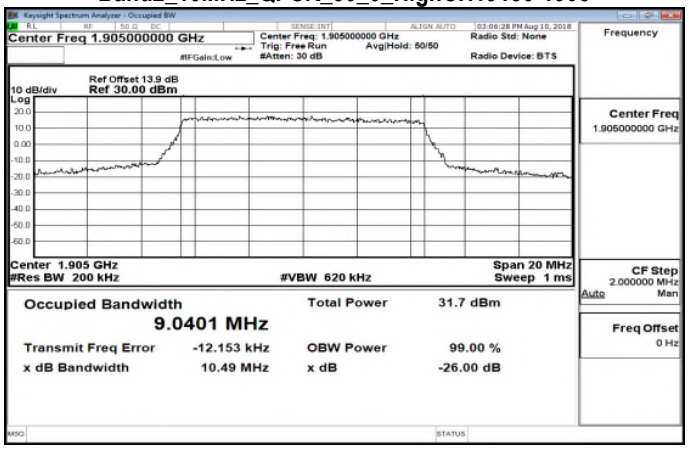

**Band2_10MHz_QPSK_50_0_MidCH18900-1880**




**Band2_5MHz_16QAM_25_0_HighCH19175-1907.5**




**Band2_10MHz_QPSK_50_0_HighCH19150-1905**

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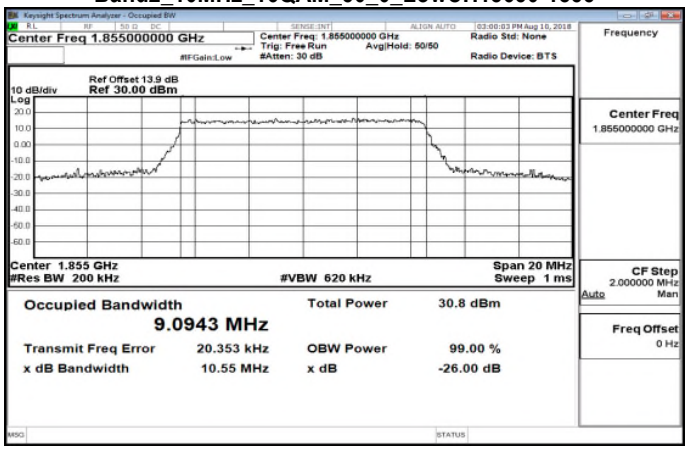
**Band2_10MHz_16QAM_50_0_LowCH18650-1855**

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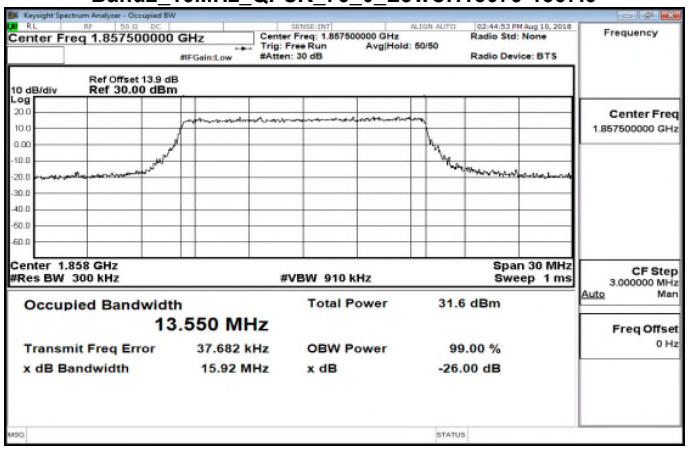
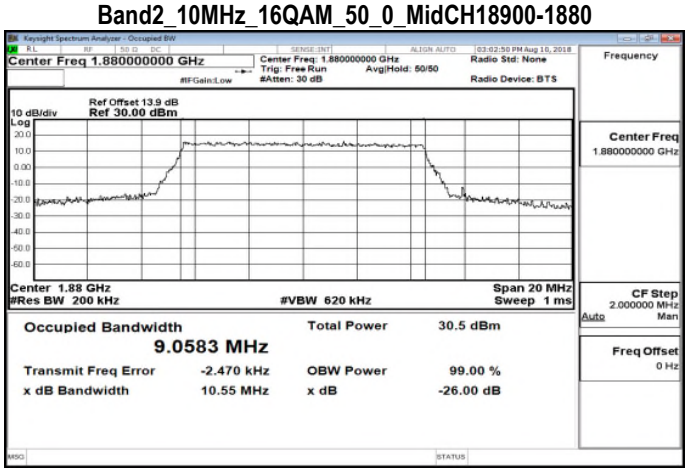
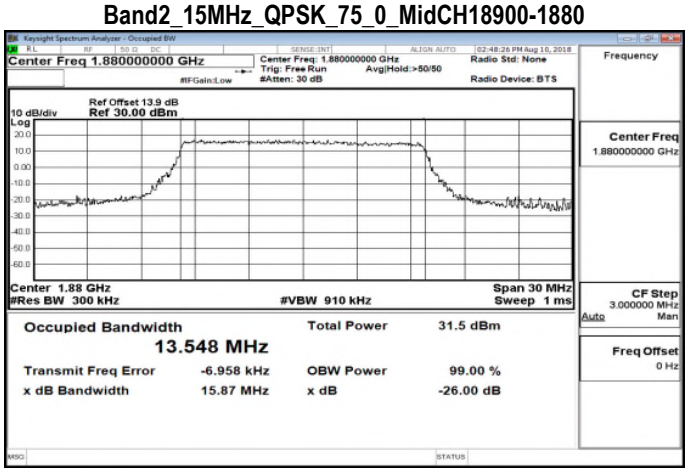


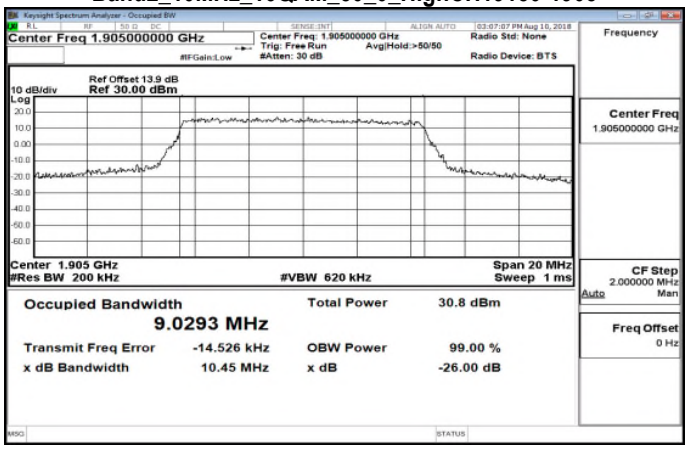

**Band2_10MHz_16QAM_50_0_MidCH18900-1880**



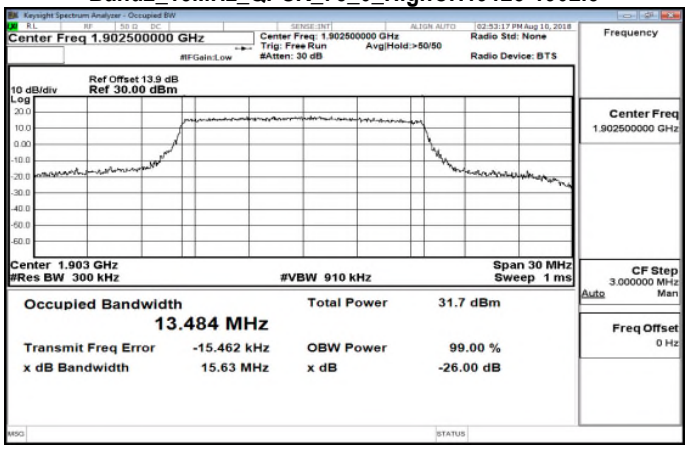

**Band2_15MHz_QPSK_75_0_MidCH18900-1880**




**Band2_10MHz_16QAM_50_0_HighCH19150-1905**




**Band2_15MHz_QPSK_75_0_HighCH19125-1902.5**

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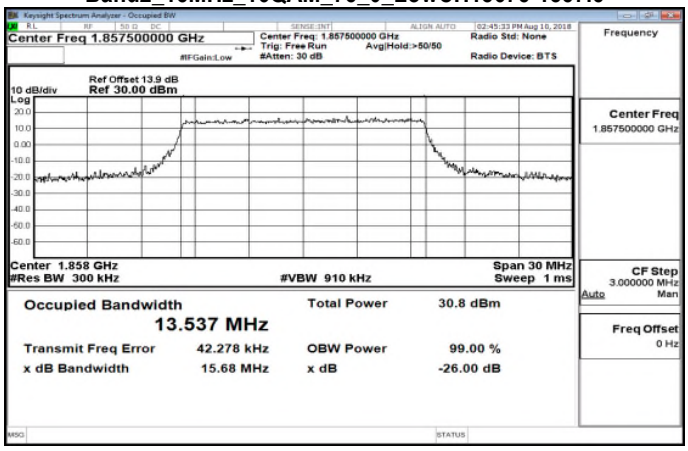
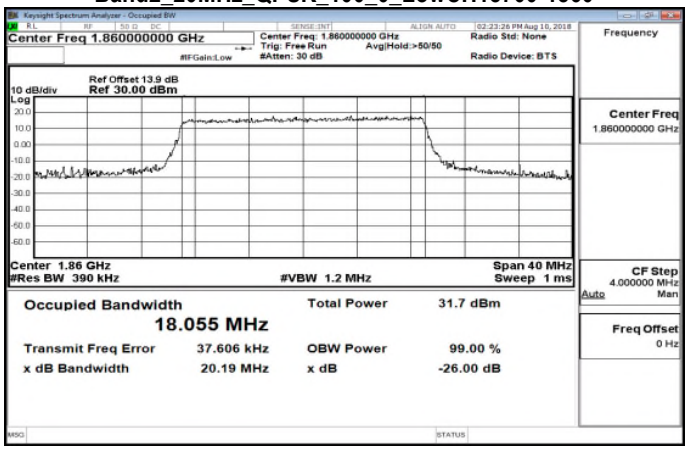
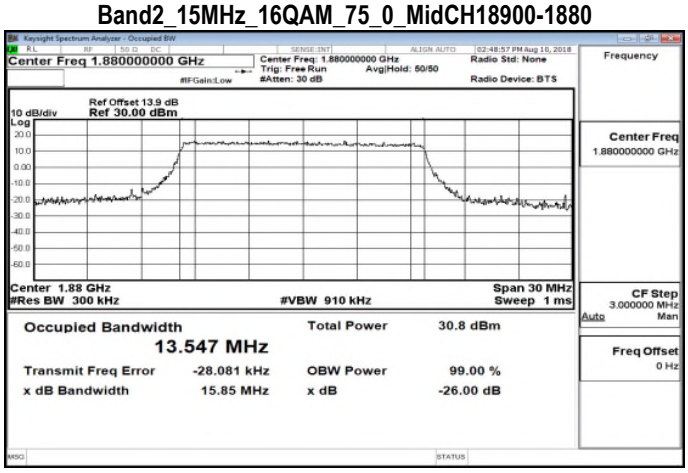
**Band2_15MHz_16QAM_75_0_LowCH18675-1857.5**



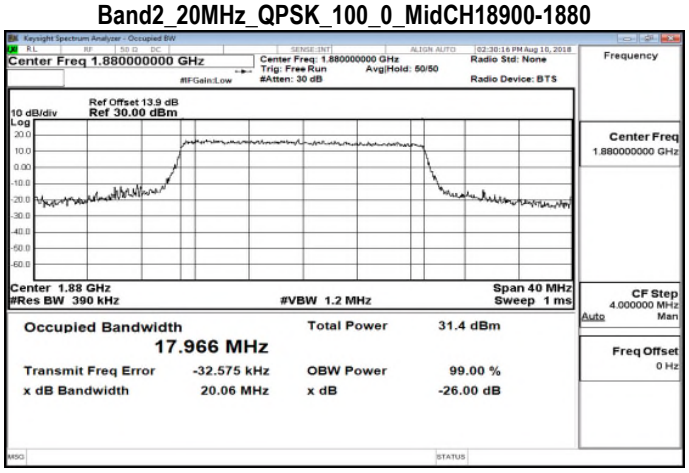

**Band2_20MHz_QPSK_100_0_LowCH18700-1860**



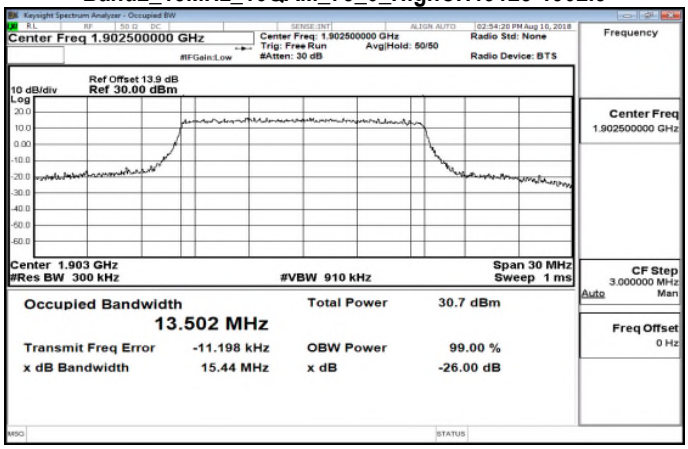

**Band2_15MHz_16QAM_75_0_MidCH18900-1880**



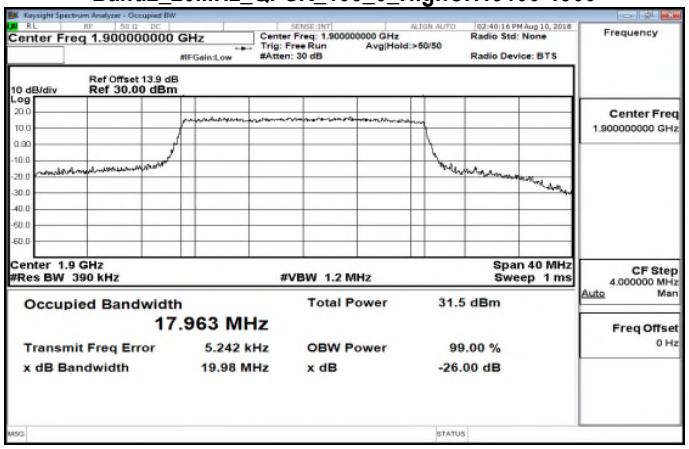

**Band2_20MHz_QPSK_100_0_MidCH18900-1880**




**Band2_15MHz_16QAM_75_0_HighCH19125-1902.5**




**Band2_20MHz_QPSK_100_0_HighCH19100-1900**

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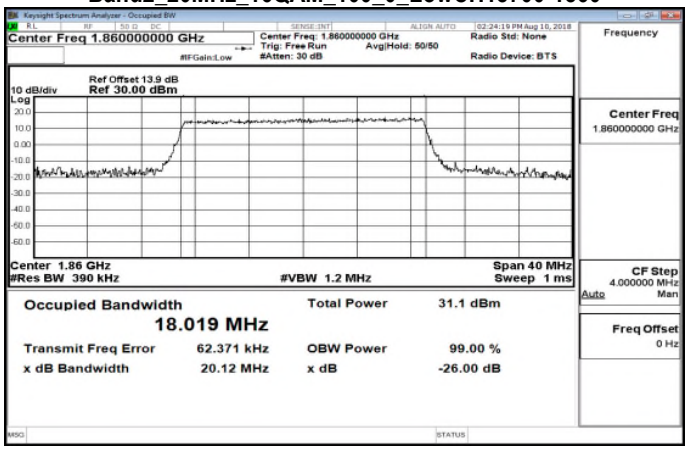
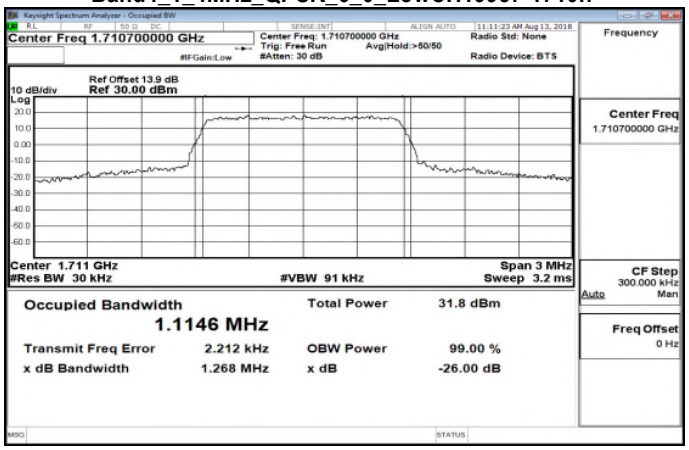
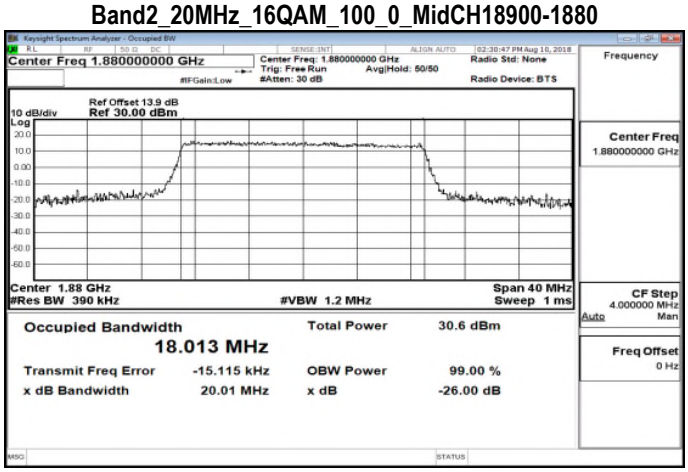
**Band2_20MHz_16QAM_100_0_LowCH18700-1860**



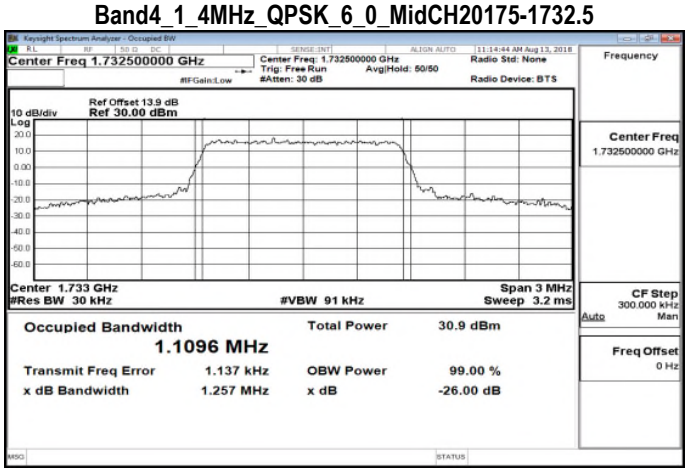

**Band4_1_4MHz_QPSK_6_0_LowCH19957-1710.7**



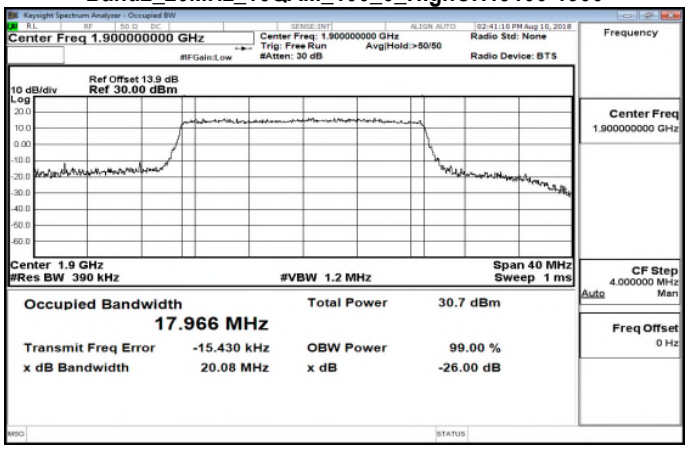

**Band2_20MHz_16QAM_100_0_MidCH18900-1880**



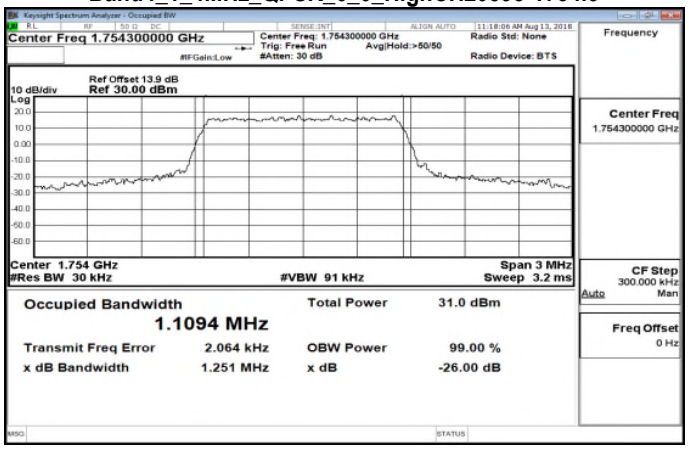

**Band4_1_4MHz_QPSK_6_0_MidCH20175-1732.5**




**Band2_20MHz_16QAM_100_0_HighCH19100-1900**




**Band4_1_4MHz_QPSK_6_0_HighCH20393-1754.3**

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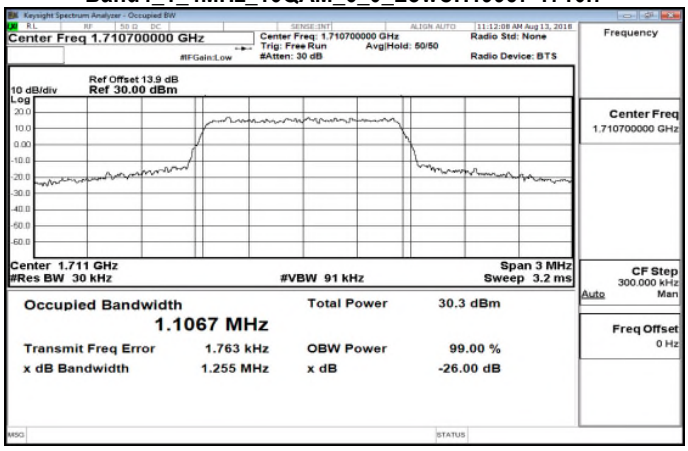
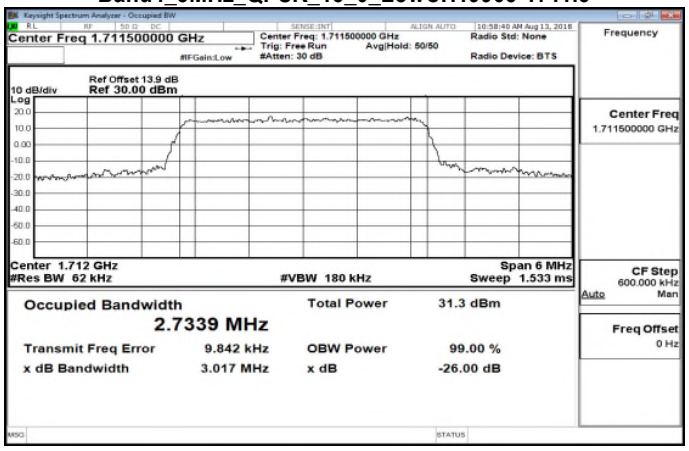
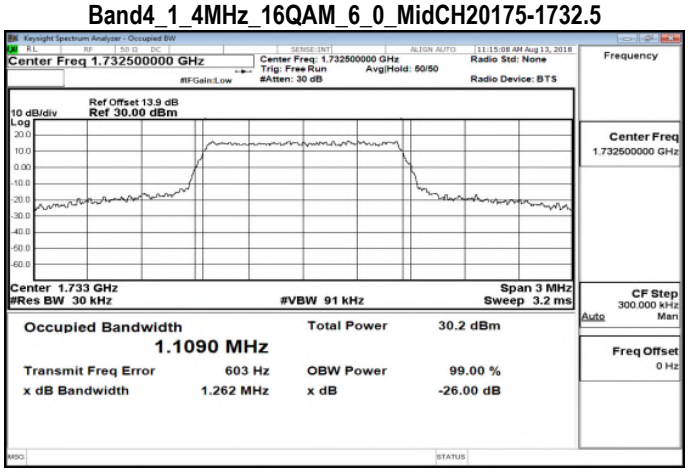
**Band4_1_4MHz_16QAM_6_0_LowCH19957-1710.7**



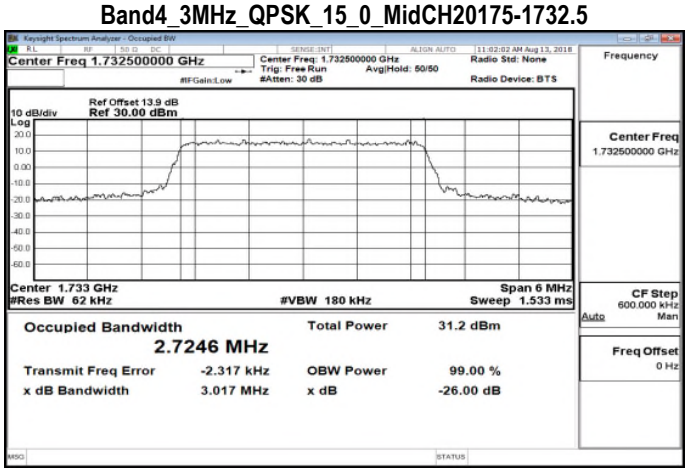

**Band4_3MHz_QPSK_15_0_LowCH19965-1711.5**



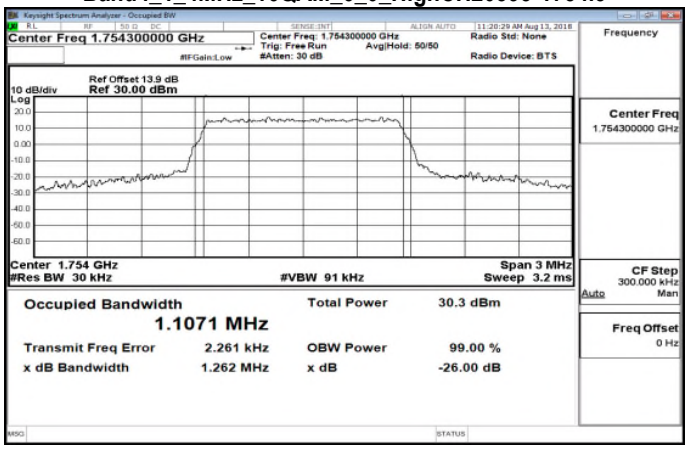

**Band4_1_4MHz_16QAM_6_0_MidCH20175-1732.5**



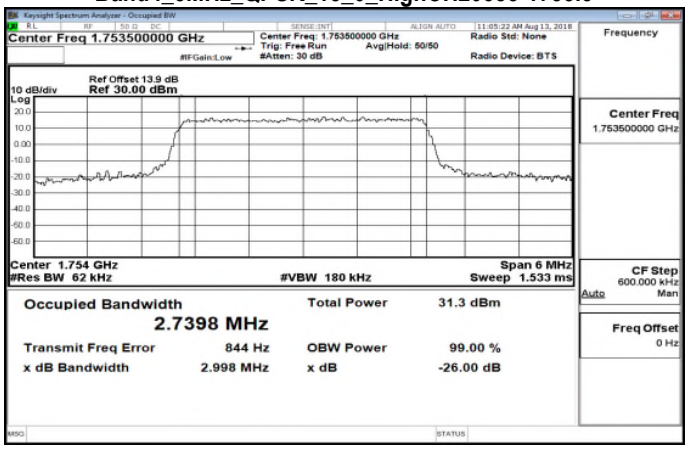

**Band4_3MHz_QPSK_15_0_MidCH20175-1732.5**




**Band4_1_4MHz_16QAM_6_0_HighCH20393-1754.3**




**Band4_3MHz_QPSK_15_0_HighCH20385-1753.5**

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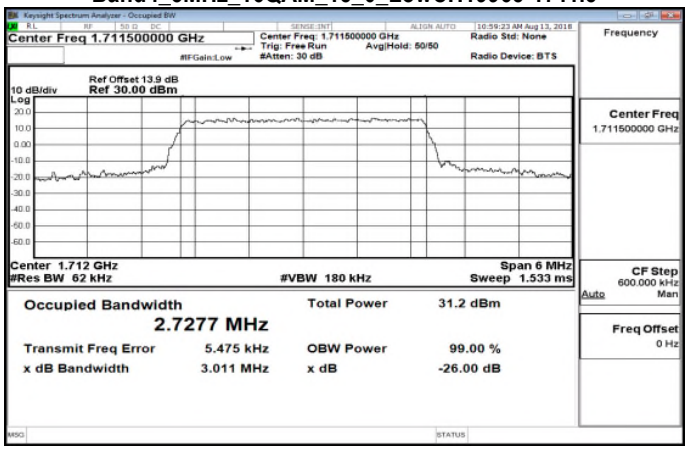
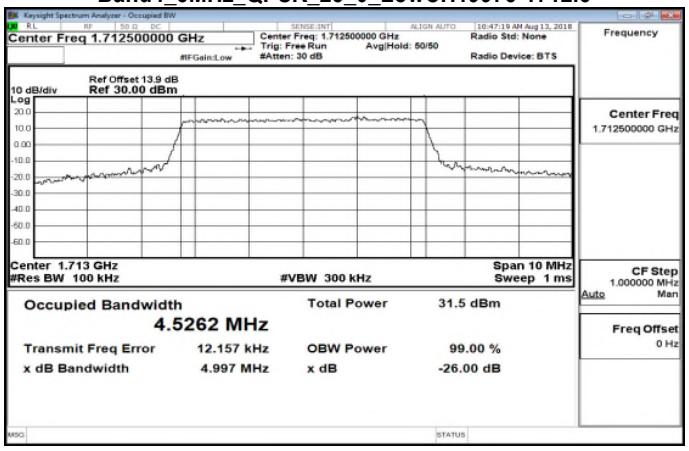
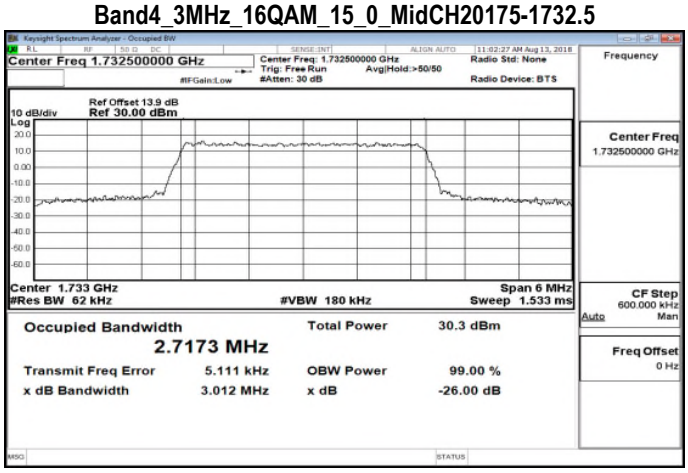
**Band4_3MHz_16QAM_15_0_LowCH19965-1711.5**



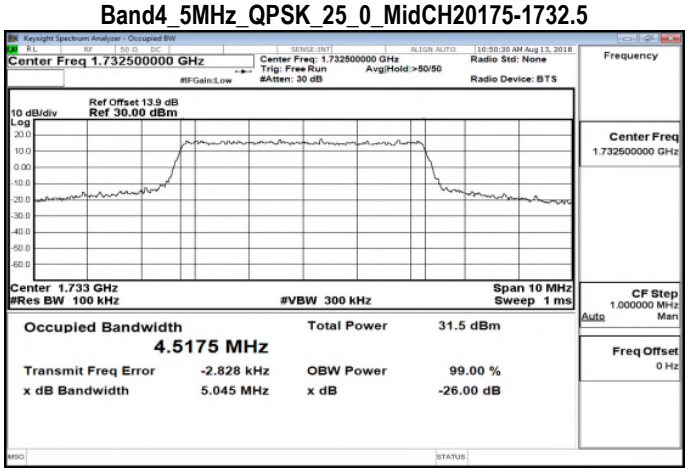

**Band4_5MHz_QPSK_25_0_LowCH19975-1712.5**



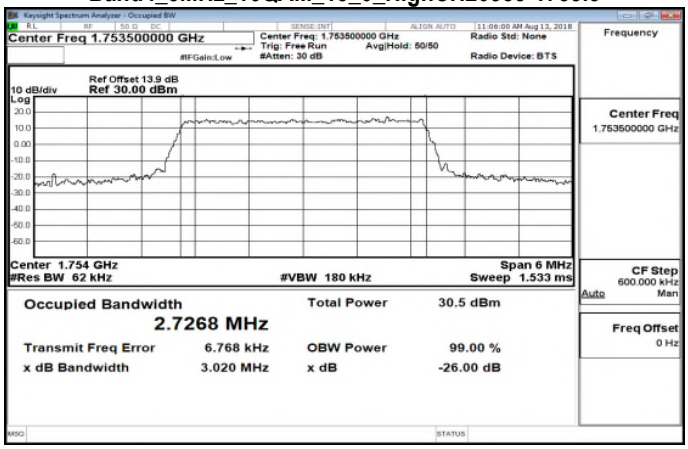

**Band4_3MHz_16QAM_15_0_MidCH20175-1732.5**



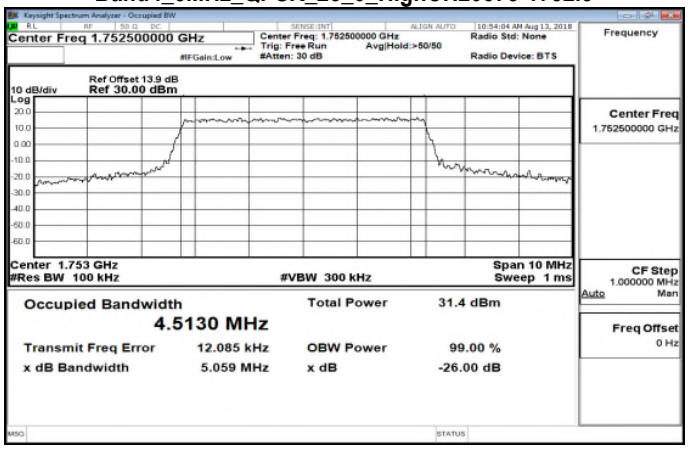

**Band4_5MHz_QPSK_25_0_MidCH20175-1732.5**




**Band4_3MHz_16QAM_15_0_HighCH20385-1753.5**




**Band4_5MHz_QPSK_25_0_HighCH20375-1752.5**

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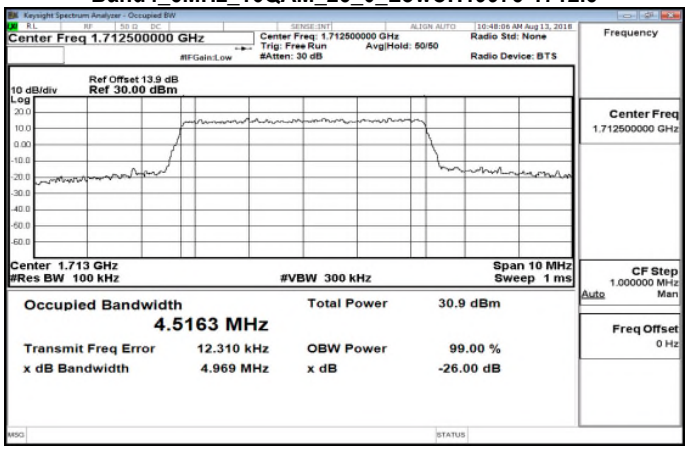
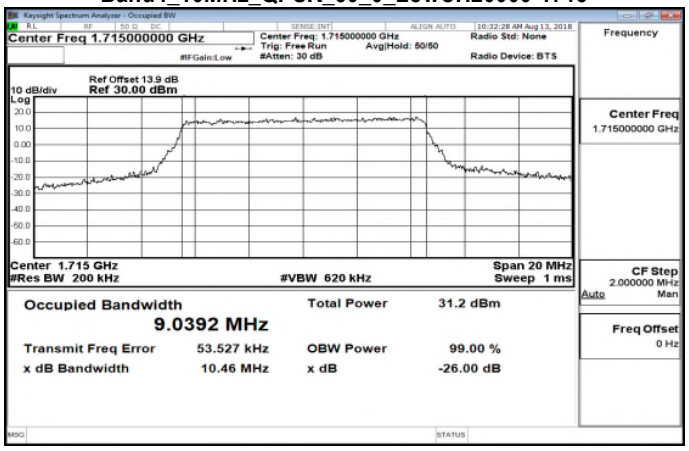
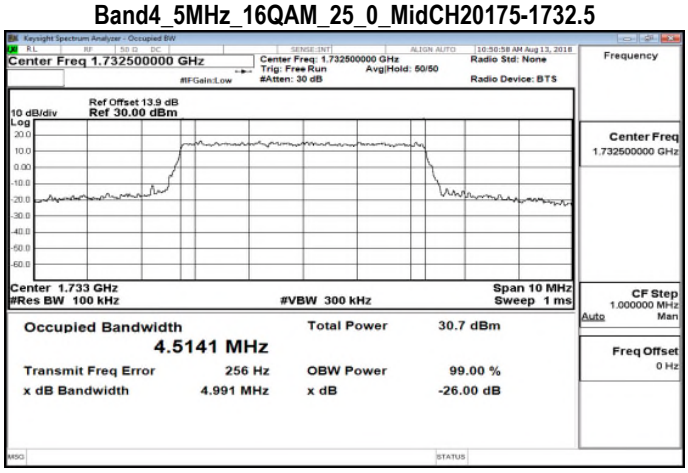
### Band4_5MHz_16QAM_25_0_LowCH19975-1712.5



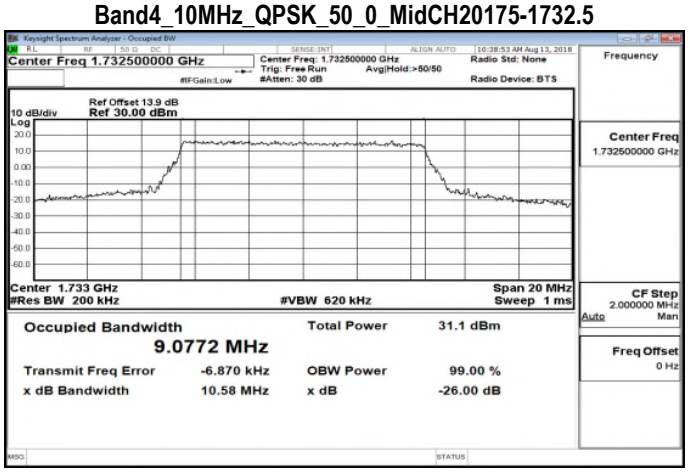

### Band4_10MHz_QPSK_50_0_LowCH20000-1715



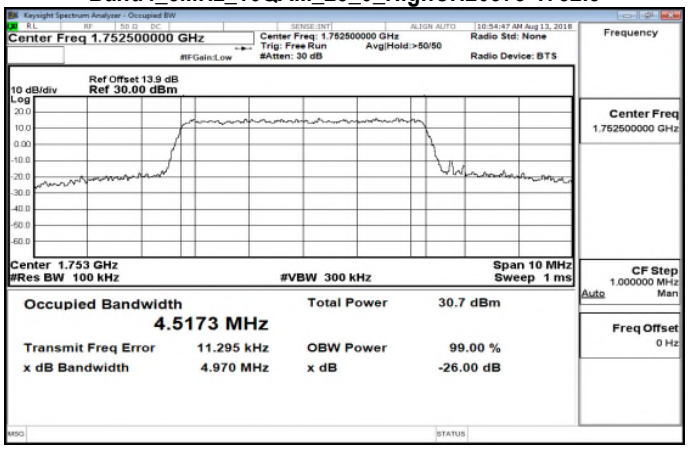

### Band4_5MHz_16QAM_25_0_MidCH20175-1732.5



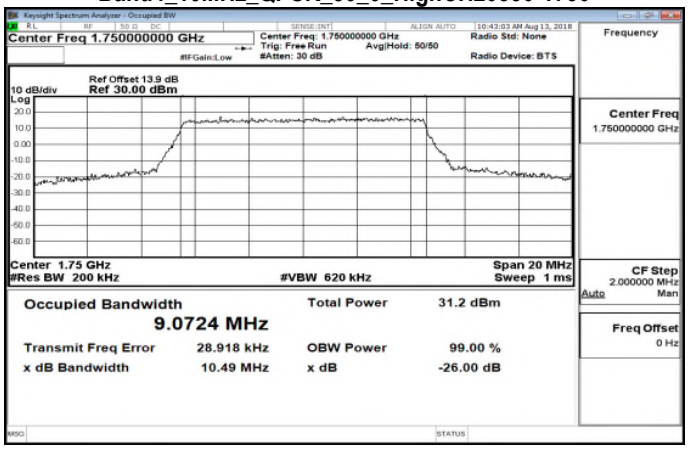

### Band4_10MHz_QPSK_50_0_MidCH20175-1732.5




### Band4_5MHz_16QAM_25_0_HighCH20375-1752.5




### Band4_10MHz_QPSK_50_0_HighCH20350-1750

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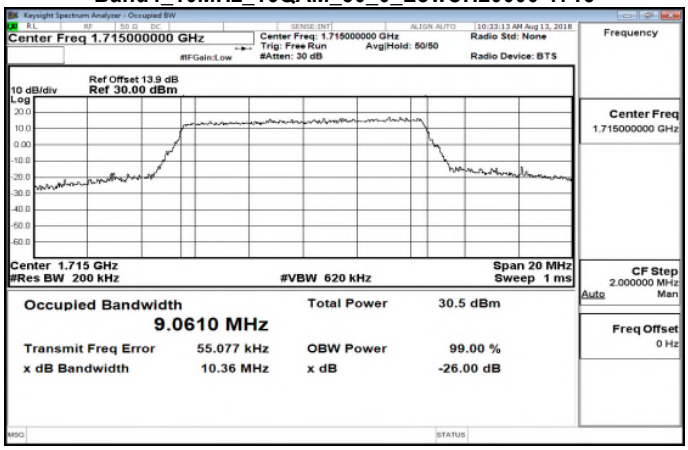
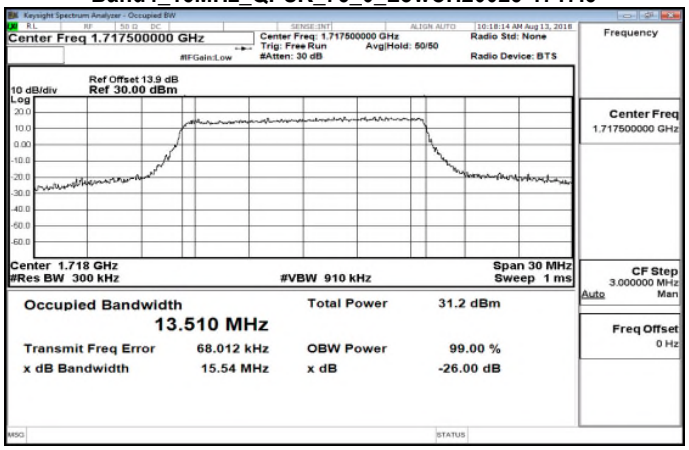
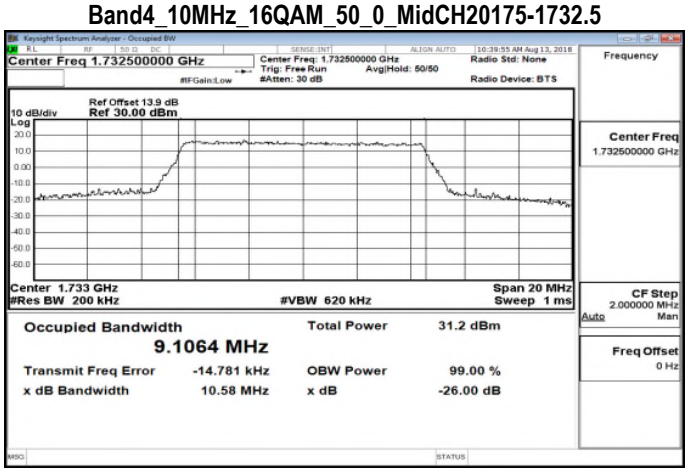
**Band4_10MHz_16QAM_50_0_LowCH20000-1715**



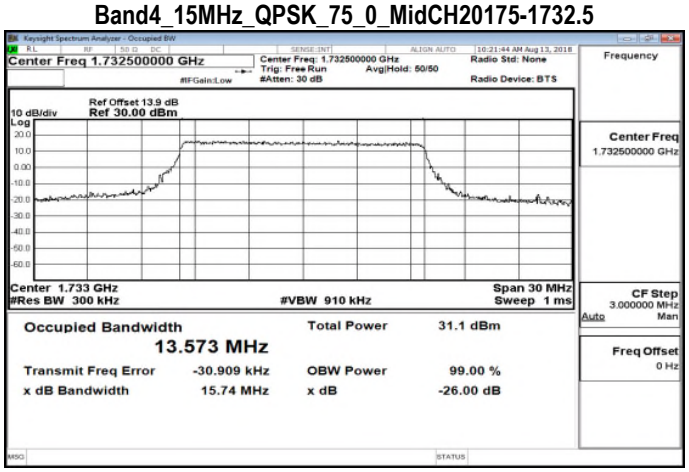

**Band4_15MHz_QPSK_75_0_LowCH20025-1717.5**



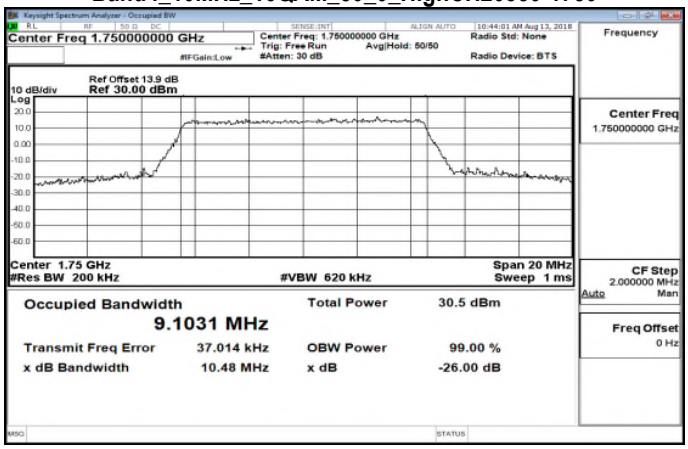

**Band4_10MHz_16QAM_50_0_MidCH20175-1732.5**



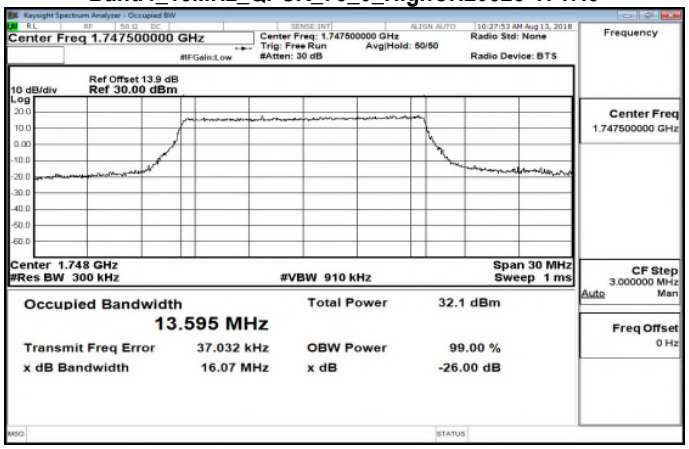

**Band4_15MHz_QPSK_75_0_MidCH20175-1732.5**




**Band4_10MHz_16QAM_50_0_HighCH20350-1750**




**Band4_15MHz_QPSK_75_0_HighCH20325-1747.5**

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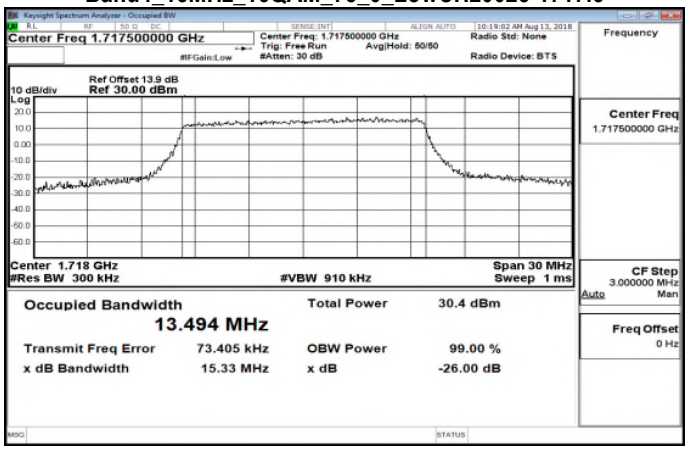
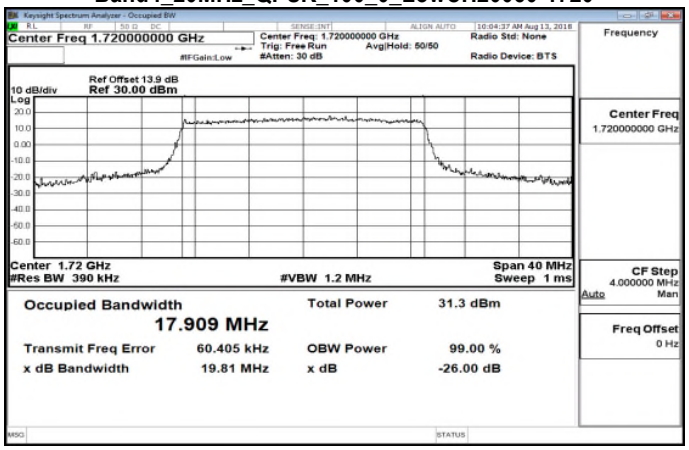
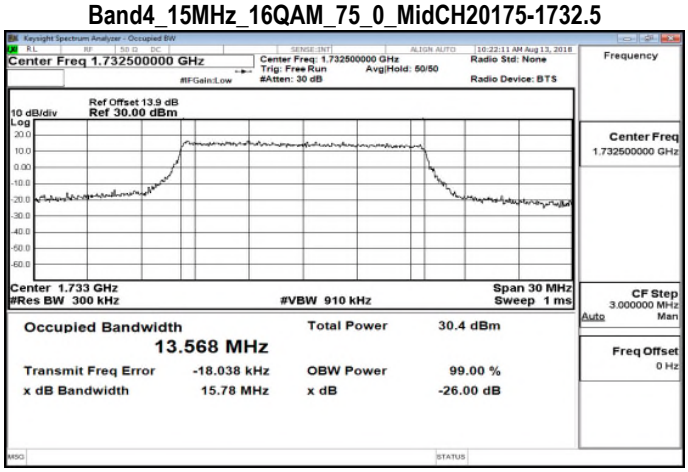
**Band4_15MHz_16QAM_75_0_LowCH20025-1717.5**



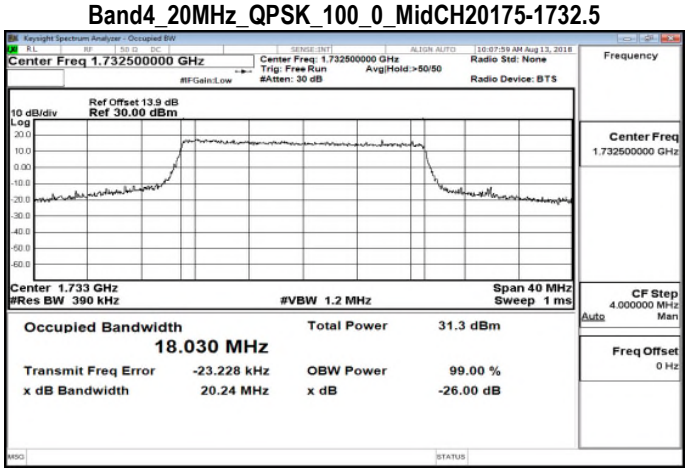

**Band4_20MHz_QPSK_100_0_LowCH20050-1720**



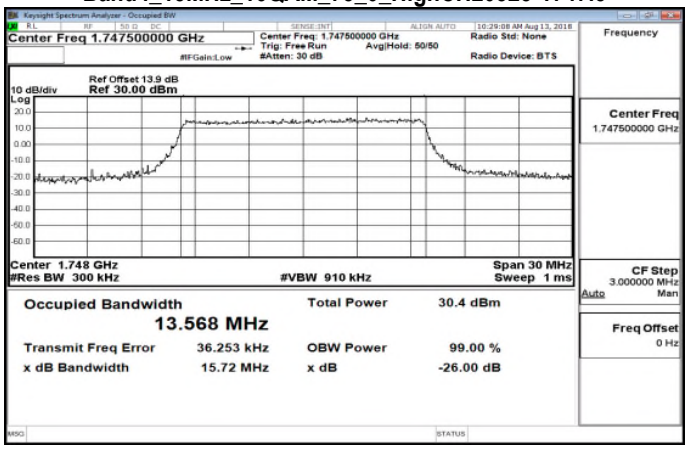

**Band4_15MHz_16QAM_75_0_MidCH20175-1732.5**




**Band4_20MHz_QPSK_100_0_MidCH20175-1732.5**




**Band4_15MHz_16QAM_75_0_HighCH20325-1747.5**

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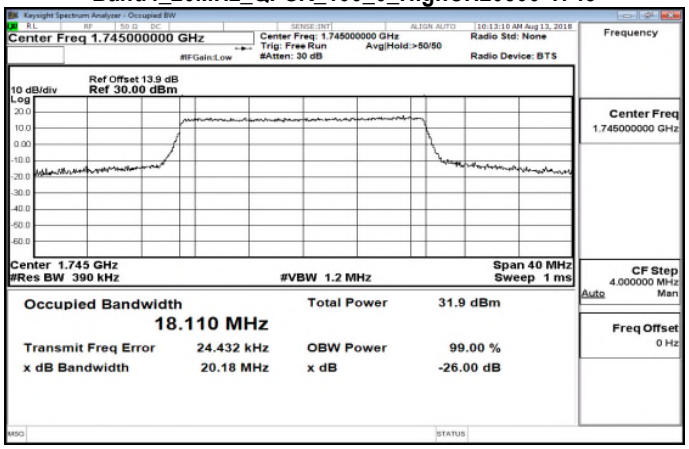


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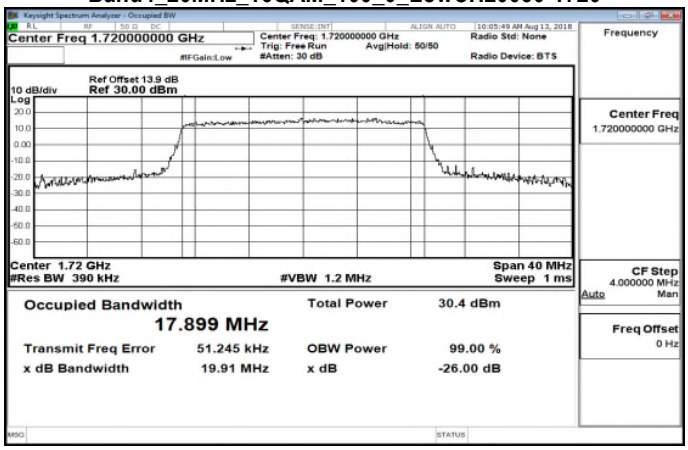
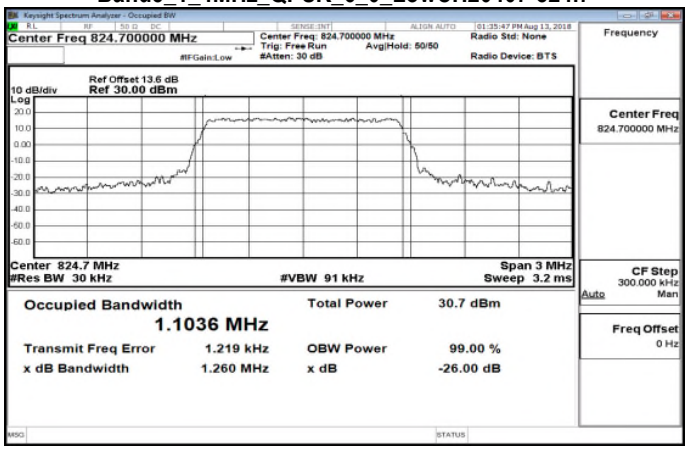
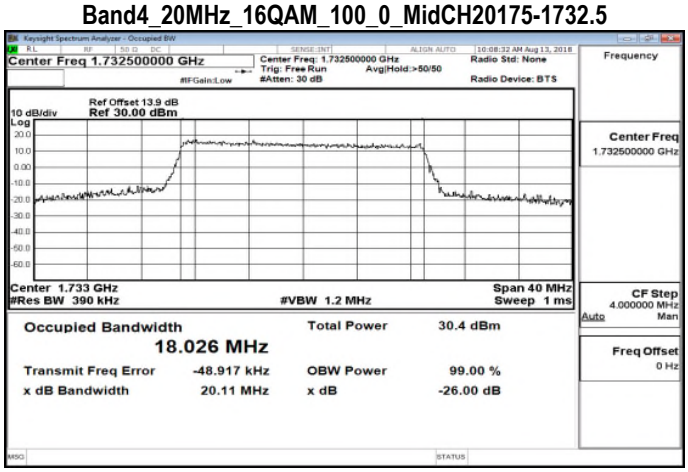
**Band4_20MHz_16QAM_100_0_LowCH20050-1720**



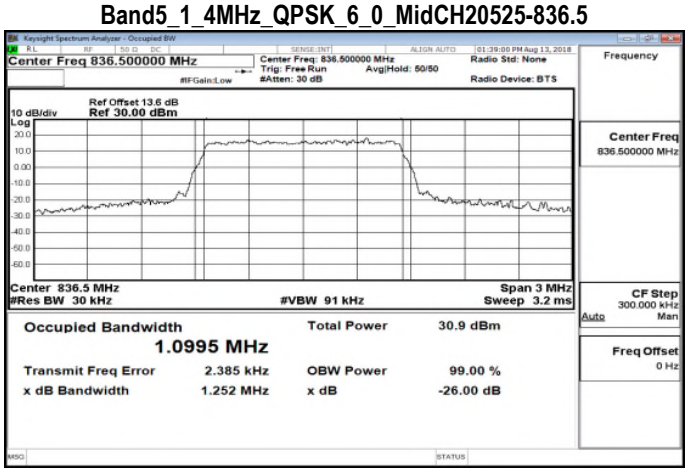

**Band5_1_4MHz_QPSK_6_0_LowCH20407-824.7**



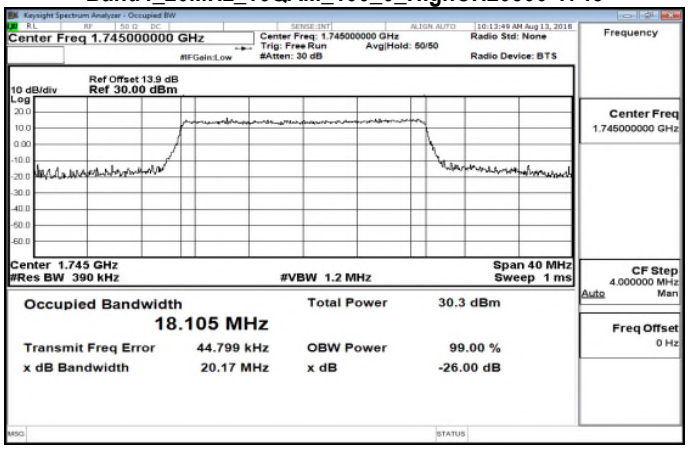

**Band4_20MHz_16QAM_100_0_MidCH20175-1732.5**



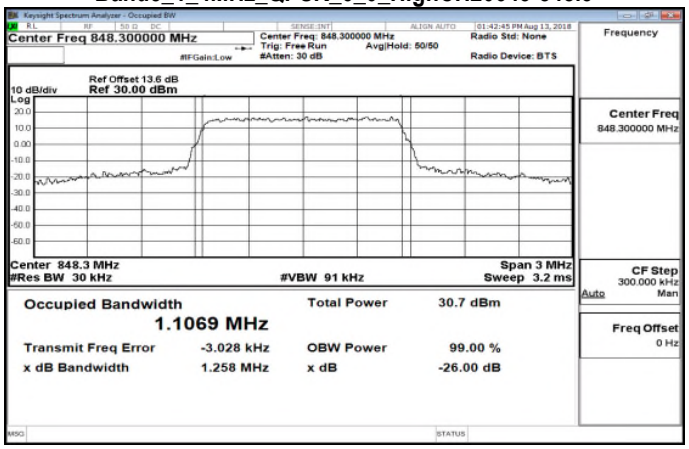

**Band5_1_4MHz_QPSK_6_0_MidCH20525-836.5**




**Band4_20MHz_16QAM_100_0_HighCH20300-1745**




**Band5_1_4MHz_QPSK_6_0_HighCH20643-848.3**

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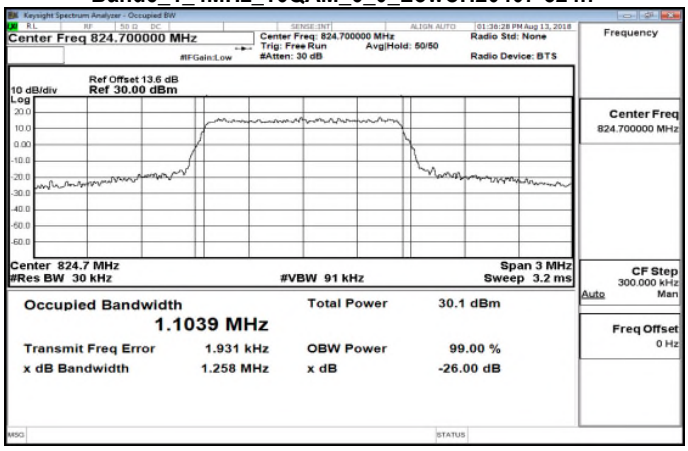
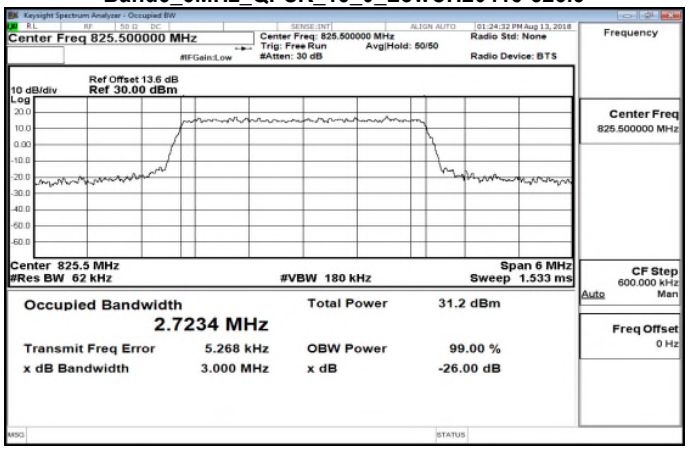
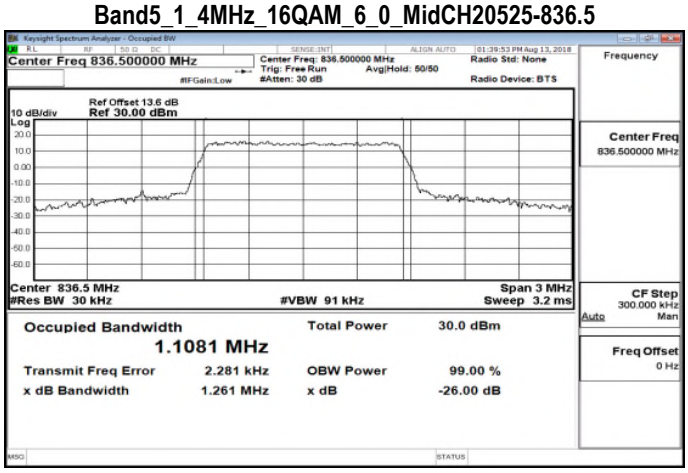
**Band5_1_4MHz_16QAM_6_0_LowCH20407-824.7**




**Band5_3MHz_QPSK_15_0_LowCH20415-825.5**




**Band5_1_4MHz_16QAM_6_0_MidCH20525-836.5**

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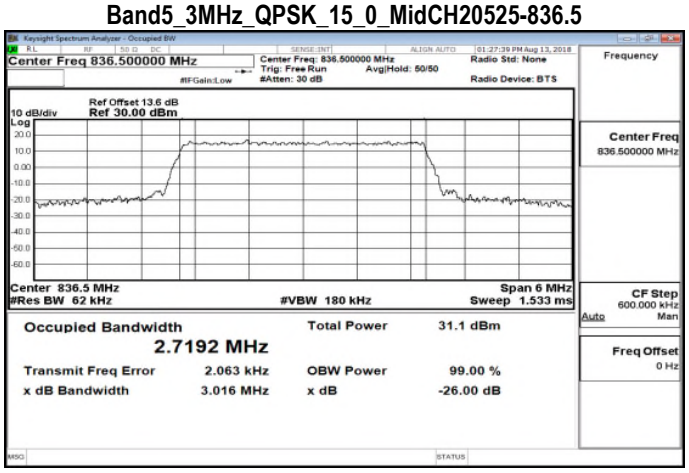
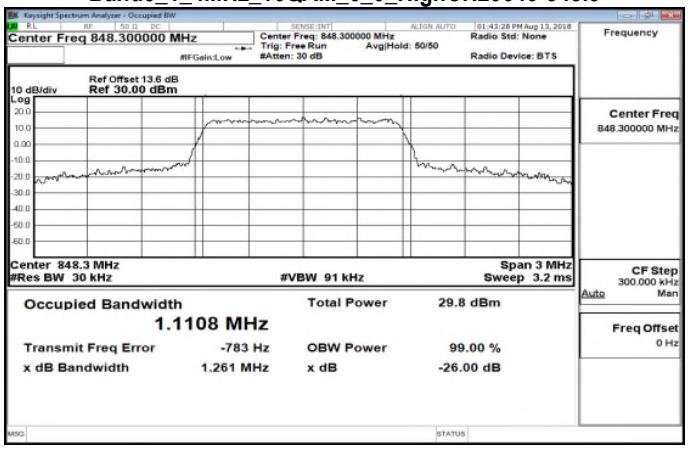



**Band5_1_4MHz_16QAM_6_0_HighCH20643-848.3**

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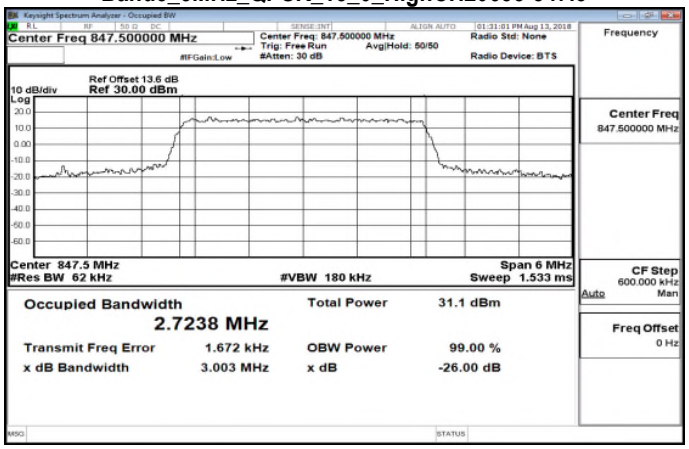


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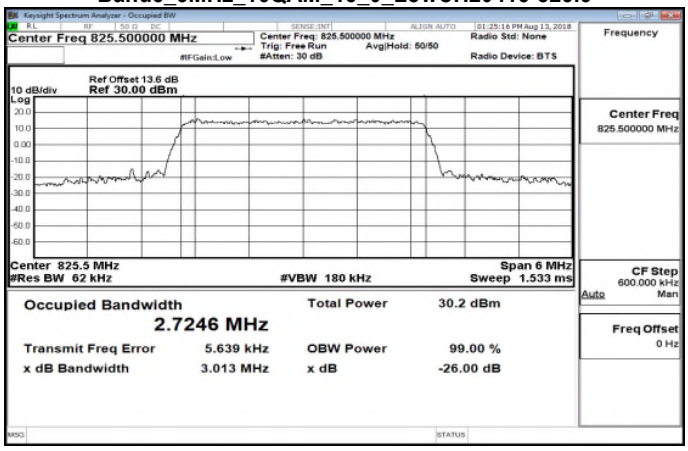
**Band5_3MHz_16QAM_15_0_LowCH20415-825.5**

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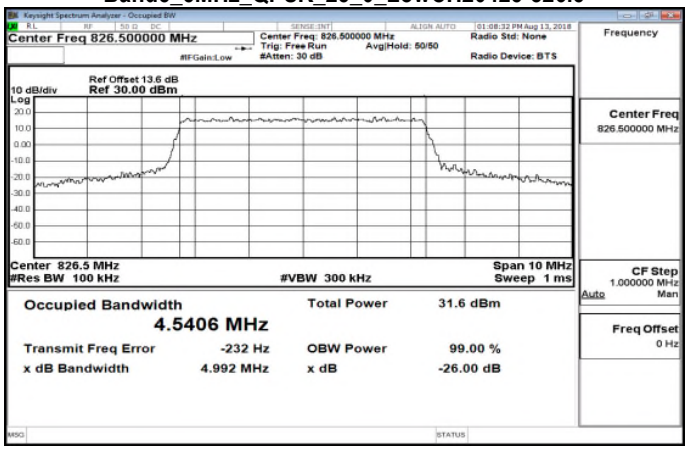
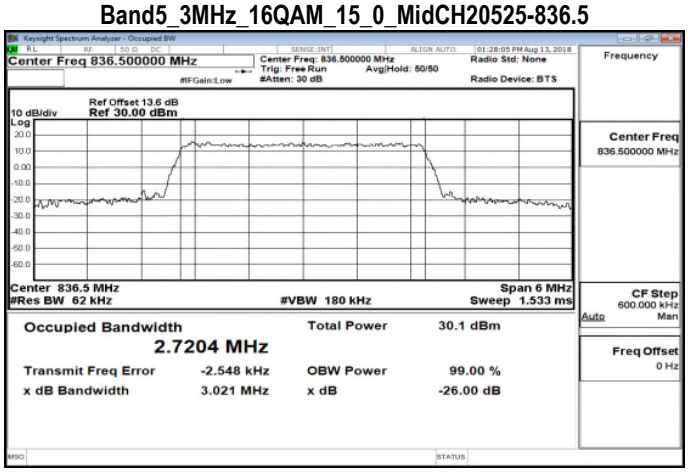
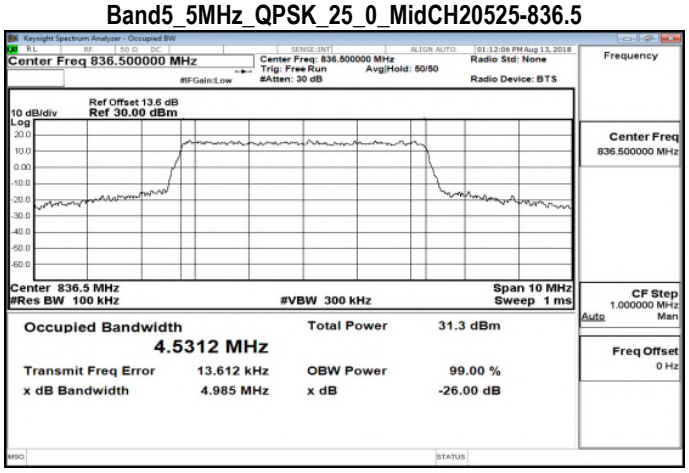


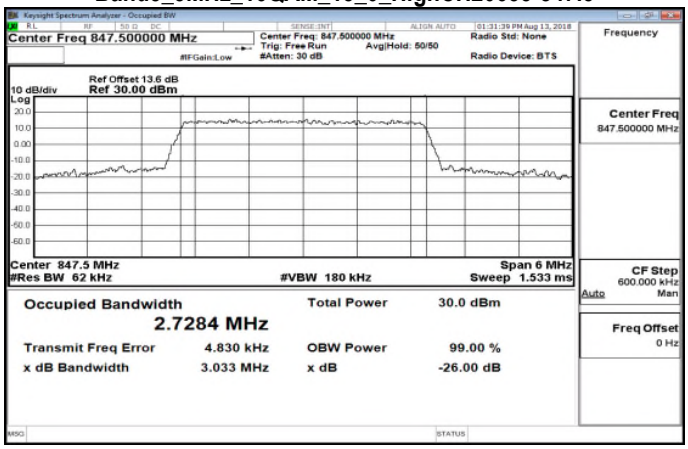

**Band5_3MHz_16QAM_15_0_MidCH20525-836.5**




**Band5_5MHz_QPSK_25_0_MidCH20525-836.5**




**Band5_3MHz_16QAM_15_0_HighCH20635-847.5**

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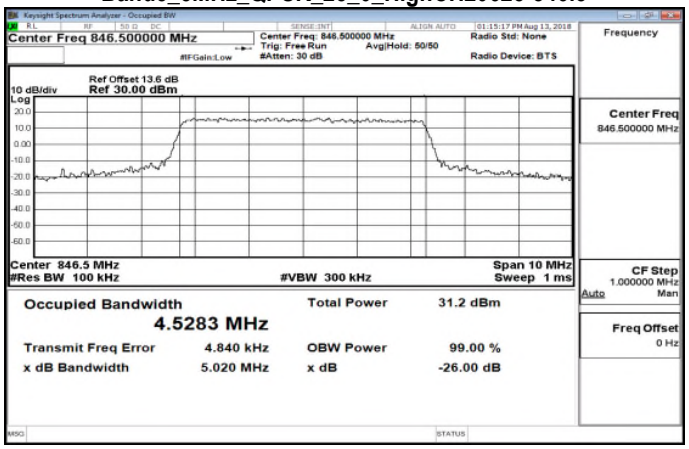


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