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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART L & M and PART 90 R, S REQUIREMENT

OF

Applicant: HP Inc.

3390 East Harmony Road, Fort Collins Colorado , USA 80528

Product Name: Notebook PC

Brand Name: HP

Model No.: TPN-Q225

Model Difference: N/A

Report Number: T190328W02-RP FCC ID: B94TNQ225WWPD

FCC Rule Part: 2, 22H & 24E & 27 L & M & 90 R, S

Issue Date: Aug. 08, 2019

Date of Test: Jun. 11, 2019 ~ Aug. 07, 2019

Date of EUT Received: Jun. 11, 2019

Compliance Certification Services Inc.Wugu Lab.

Issued by:

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891,

Taiwan. (R.O.C.) service@ccsrf.com

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.26: 2015 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

Tested By:

Henry Chiang / Engineer

Approved By:

Kevin Tsai / Deputy Manager





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Revision History

| Report Number | Revision | Description | Effected Page | Issue Date | Revised By |
|---------------|----------|----------------------------------|-----------------------------------|---------------|---------------|
| T190611W02-RP | Rev.00 | Initial creation of document | All | Jul. 05, 2019 | Violetta Tang |
| T190611W02-RP | Rev.01 | Updated section section 4.1, 8.5 | Page 21, 23, 28~30, 216~312 | Aug. 08, 2019 | Violetta Tang |



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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

| Product Name: | Notebook | PC | | |
|---|----------|--|--|--|
| Brand Name: | HP | | | |
| Model No.: | TPN-Q225 | 5 | | |
| Model Difference: | N/A | | | |
| Hardware Version: | N/A | | | |
| Software Version: | N/A | | | |
| | | om Rechargeable Li-polymer Battery Vdc, 10Vdc, 12Vdc, 15Vdc, 20Vdc from AC/DC Adapter | | |
| Power Supply: | Battery: | 1. Model No.: HSTNN-DB9K, Supplier: DYNAPACK | | |
| Adapter: 1. Model No.: TPN-AA03, Spplier: Acbel 2. Model No.: TPN-CA06, Spplier: Chicony | | | | |



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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 Frequ (MHz) | ency | LTE Band | BW (MHz) | • | n Fro MHz | equency |
|----------|-------------|--------------------------|-------|-----------|-------------|--------|--------------|---------|
| | 1.4 | \ / | 909.3 | | 5 | 790.5 | - | 795.5 |
| | 3 | | 908.5 | 14 | 10 | 793 | | |
| | 5 | | 907.5 | 47 | 5 | 706.5 | - | 713.5 |
| 2 | 10 | 1855.0 - 19 | 905.0 | 17 | 10 | 709.0 | - | 711.0 |
| | 15 | 1857.5 - 19 | 902.5 | | 1.4 | 1850.7 | - | 1914.3 |
| | 20 | 1860.0 - 19 | 0.00 | | 3 | 1851.5 | - | 1913.5 |
| | 1.4 | 1710.7 - 17 | 754.3 | 25 | 5 | 1852.5 | - | 1912.5 |
| | 3 | 1711.5 - 17 | 753.5 | 25 | 10 | 1855.0 | - | 1910.0 |
| 4 | 5 | 1712.5 - 17 | 752.5 | | 15 | 1857.5 | - | 1907.5 |
| 4 | 10 | 1715.0 - 17 | 780.0 | | 20 | 1860.0 | - | 1905.0 |
| | 15 | 1717.5 - 17 | 747.5 | | 1.4 | 824.7 | - | 848.3 |
| | 20 | 1720.0 - 17 | 745.0 | 26 | 3 | 825.5 | - | 847.5 |
| | 1.4 | 824.7 - 8 | 48.3 | | 5 | 826.5 | - | 846.5 |
| 5 | 3 | 825.5 - 8 | 47.5 | | 10 | 829.0 | - | 844.0 |
| 3 | 5 | 826.5 - 8 | 46.5 | | 15 | 831.5 | - | 841.5 |
| | 10 | 829.0 - 8 | 44.0 | | 1.4 | 814.7 | - | 823.3 |
| | 5 | 2502.5 - 25 | 567.5 | 26 Part90 | 3 | 815.5 | - | 822.5 |
| 7 | 10 | 2505.0 - 25 | 565.0 | 20 Fait90 | 5 | 816.5 | - | 821.5 |
| / | 15 | 2507.5 - 25 | 562.5 | | 10 | 8 | 319.0 |) |
| | 20 | 2510.0 - 25 | 560.0 | 30 | 5 | 2307.5 | - | 2312.5 |
| | 1.4 | 699.7 - 7 | 15.3 | 30 | 10 | 2 | 310. | 0 |
| 12 | 3 | 700.5 - 7 | 14.5 | | 5 | 2572.5 | - | 2617.5 |
| 12 | 5 | 701.5 - 7 | 13.5 | 38 | 10 | 2575.0 | - | 2615.0 |
| | 10 | 704.0 - 7 | 11.0 | 30 | 15 | 2577.5 | - | 2612.5 |
| 13 | 5 | 779.5 - 7 | 84.5 | | 20 | 2580.0 | - | 2610.0 |
| | 10 | 782 | | | | | | |

| LTE Band | BW (MHz) | Operation Frequency (MHz) | | LTE Band | BW (MHz) | Operation (I | n Fre MHz | | |
|----------|--------------------|------------------------------|----|----------|-------------|--------------|--------------|---|--------|
| | 5 | 2498.5 | - | 2687.5 | | 1.4 | 1710.7 | - | 1779.3 |
| 41 | 10 | 2501.0 | - | 2685.0 | 66 | 3 | 1711.5 | - | 1778.5 |
| 41 | 15 | 2503.5 | - | 2682.5 | | 5 | 1712.5 | - | 1777.5 |
| | 20 2506.0 - 2680.0 | 00 | 10 | 1715.0 | - | 1775.0 | | | |
| | | | | | | 15 | 1717.5 | - | 1772.5 |
| | | | | | | 20 | 1720.0 | - | 1770.0 |

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Antenna Designation

| Vendor | Туре | Main | Antenna Part No. | Modulation | Frequency (MHz) | Peak Antenna Gain (dBi) |
|--------|--------|--------|---|----------------------|--------------------|----------------------------|
| | | | | WCDMA / HSPA Band II | 1852.4 ~ 1907.6 | -0.02 |
| | | | | WCDMA / HSPA Band IV | 1712.4 ~ 1752.6 | -0.21 |
| | | | | WCDMA / HSPA Band V | 826.4 ~ 846.6 | -3.5 |
| | | | | LTE Band 2 | 1850 ~ 1910 | -0.02 |
| | | | | LTE Band 4 | 1710 ~ 1755 | -0.21 |
| | | | DQ6PLTE1500 (WA-P-LTE15LTE15LTE16LTE16- 02-001) | LTE Band 5 | 824 ~ 849 | -3 |
| | Q PIFA | A Main | | LTE Band 7 | 2503 ~ 2560 | -0.19 |
| | | | | LTE Band 12 | 699 ~ 716 | -0.74 |
| INPAQ | | | | LTE Band 13 | 777 ~ 787 | -1.35 |
| INFAQ | | | | LTE Band 14 | 788 ~ 798 | -1.35 |
| | | | | LTE Band 17 | 704 ~ 716 | -0.74 |
| | | | | LTE Band 25 | 1850 ~ 1915 | -0.02 |
| | | | | LTE Band 26 | 824 ~ 849 | -3 |
| | | | | LTE Band 26 Part 90S | 814.7 ~ 823.3 | -3 |
| | | | LTE Band 30 | 2305 ~ 2315 | 0.44 | |
| | | | | LTE Band 38 | 2570 ~ 2620 | -0.37 |
| | | | | LTE Band 41 | 2496 ~ 2690 | -0.19 |
| | | | | LTE Band 66 | 1710 ~ 1780 | -0.21 |

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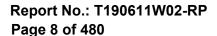
1.3. Type of Emission & Max ERP/EIRP Power Measurement Result:

| | ERP / EI | RP (dBm) | (W) | Type of Emission |
|---------------|----------|----------|-------|------------------|
| WCDMA Band II | 23.89 | EIRP | 0.245 | 4M07F9W |
| HSDPA Band II | 24.10 | EIRP | 0.257 | 4M06F9W |
| HSUPA Band II | 24.03 | EIRP | 0.253 | 4M06F9W |
| WCDMA Band IV | 23.78 | EIRP | 0.239 | 4M07F9W |
| HSDPA Band IV | 23.85 | EIRP | 0.243 | 4M07F9W |
| HSUPA Band IV | 23.81 | EIRP | 0.240 | 4M07F9W |
| WCDMA Band V | 20.45 | ERP | 0.111 | 4M08F9W |
| HSDPA Band V | 20.35 | ERP | 0.108 | 4M08F9W |
| HSUPA Band V | 20.47 | ERP | 0.111 | 4M08F9W |

| LTE Band | BW (MHz) | Modulation | ERP / EIRP (dBm) | | (W) | Type of Emission |
|-------------|-------------|------------|---------------------|------|-------|------------------|
| Baria | 1.4 | QPSK | 18.92 | EIRP | 0.078 | 1M11G7D |
| | 1.4 | 16QAM | 18.94 | EIRP | 0.078 | 1M11D7W |
| | 1.4 | 64QAM | 18.92 | EIRP | 0.078 | 1M11D7W |
| | 3 | QPSK | 18.92 | EIRP | 0.078 | 2M73G7D |
| | 3 | 16QAM | 18.90 | EIRP | 0.078 | 2M73D7W |
| | 3 | 64QAM | 18.90 | EIRP | 0.078 | 2M73D7W |
| | 5 | QPSK | 18.94 | EIRP | 0.078 | 4M54G7D |
| | 5 | 16QAM | 18.94 | EIRP | 0.078 | 4M52D7W |
| 2 | 5 | 64QAM | 18.90 | EIRP | 0.078 | 4M53D7W |
| 2 | 10 | QPSK | 18.94 | EIRP | 0.078 | 9M08G7D |
| | 10 | 16QAM | 18.92 | EIRP | 0.078 | 9M12D7W |
| | 10 | 64QAM | 18.94 | EIRP | 0.078 | 9M08D7W |
| | 15 | QPSK | 18.91 | EIRP | 0.078 | 13M5G7D |
| | 15 | 16QAM | 18.92 | EIRP | 0.078 | 13M6D7W |
| | 15 | 64QAM | 18.88 | EIRP | 0.077 | 13M6D7W |
| | 20 | QPSK | 18.97 | EIRP | 0.079 | 18M0G7D |
| | 20 | 16QAM | 18.92 | EIRP | 0.078 | 18M0D7W |
| | 20 | 64QAM | 18.94 | EIRP | 0.078 | 18M0D7W |

| LTE | BW | Modulation | ERP | ERP / EIRP | | Type of |
|------|-------|--------------|-------|------------|-------|----------|
| Band | (MHz) | iviodulation | (0 | dBm) | (W) | Emission |
| | 1.4 | QPSK | 19.25 | EIRP | 0.084 | 1M11G7D |
| | 1.4 | 16QAM | 19.23 | EIRP | 0.084 | 1M11D7W |
| | 1.4 | 64QAM | 19.25 | EIRP | 0.084 | 1M11D7W |
| | 3 | QPSK | 18.68 | EIRP | 0.074 | 2M72G7D |
| | 3 | 16QAM | 18.66 | EIRP | 0.073 | 2M73D7W |
| | 3 | 64QAM | 18.50 | EIRP | 0.071 | 2M73D7W |
| | 5 | QPSK | 19.23 | EIRP | 0.084 | 4M53G7D |
| | 5 | 16QAM | 19.23 | EIRP | 0.084 | 4M52D7W |
| 4 | 5 | 64QAM | 19.23 | EIRP | 0.084 | 4M52D7W |
| 4 | 10 | QPSK | 19.22 | EIRP | 0.084 | 9M09G7D |
| | 10 | 16QAM | 19.23 | EIRP | 0.084 | 9M10D7W |
| | 10 | 64QAM | 19.22 | EIRP | 0.084 | 9M09D7W |
| | 15 | QPSK | 19.21 | EIRP | 0.083 | 13M6G7D |
| | 15 | 16QAM | 19.23 | EIRP | 0.084 | 13M6D7W |
| | 15 | 64QAM | 19.23 | EIRP | 0.084 | 13M6D7W |
| | 20 | QPSK | 19.28 | EIRP | 0.085 | 18M1G7D |
| | 20 | 16QAM | 19.20 | EIRP | 0.083 | 18M1D7W |
| | 20 | 64QAM | 19.23 | EIRP | 0.084 | 18M1D7W |

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| LTE Band | BW (MHz) | Modulation | | /EIRP 3m) | (W) | Type of Emission |
|-------------|-------------|------------|-------|--------------|-------|------------------|
| | 1.4 | QPSK | 18.24 | ERP | 0.067 | 1M11G7D |
| | 1.4 | 16QAM | 18.27 | ERP | 0.067 | 1M12D7W |
| | 1.4 | 64QAM | 18.26 | ERP | 0.067 | 1M11D7W |
| | 3 | QPSK | 18.26 | ERP | 0.067 | 2M74G7D |
| | 3 | 16QAM | 18.25 | ERP | 0.067 | 2M73D7W |
| 5 | 3 | 64QAM | 18.25 | ERP | 0.067 | 2M72D7W |
| 5 | 5 | QPSK | 18.28 | ERP | 0.067 | 4M54G7D |
| | 5 | 16QAM | 18.27 | ERP | 0.067 | 4M53D7W |
| | 5 | 64QAM | 18.28 | ERP | 0.067 | 4M53D7W |
| | 10 | QPSK | 18.37 | ERP | 0.069 | 9M11G7D |
| | 10 | 16QAM | 18.26 | ERP | 0.067 | 9M12D7W |
| | 10 | 64QAM | 18.28 | ERP | 0.067 | 9M12D7W |
| | 5 | QPSK | 15.77 | EIRP | 0.038 | 4M52G7D |
| | 5 | 16QAM | 15.75 | EIRP | 0.038 | 4M52D7W |
| | 5 | 64QAM | 15.74 | EIRP | 0.037 | 4M52D7W |
| | 10 | QPSK | 15.76 | EIRP | 0.038 | 9M09G7D |
| | 10 | 16QAM | 15.77 | EIRP | 0.038 | 9M08D7W |
| 7 | 10 | 64QAM | 15.76 | EIRP | 0.038 | 9M09D7W |
| , | 15 | QPSK | 15.76 | EIRP | 0.038 | 13M6G7D |
| | 15 | 16QAM | 15.77 | EIRP | 0.038 | 13M6D7W |
| | 15 | 64QAM | 15.76 | EIRP | 0.038 | 13M6D7W |
| | 20 | QPSK | 15.80 | EIRP | 0.038 | 18M1G7D |
| | 20 | 16QAM | 15.78 | EIRP | 0.038 | 18M1D7W |
| | 20 | 64QAM | 15.77 | EIRP | 0.038 | 18M1D7W |
| | 1.4 | QPSK | 19.00 | ERP | 0.079 | 1M11G7D |
| | 1.4 | 16QAM | 19.01 | ERP | 0.080 | 1M11D7W |
| | 1.4 | 64QAM | 18.97 | ERP | 0.079 | 1M10D7W |
| | 3 | QPSK | 19.01 | ERP | 0.080 | 2M73G7D |
| | 3 | 16QAM | 19.01 | ERP | 0.080 | 2M72D7W |
| 12 | 3 | 64QAM | 19.00 | ERP | 0.079 | 2M72D7W |
| 12 | 5 | QPSK | 19.02 | ERP | 0.080 | 4M51G7D |
| | 5 | 16QAM | 19.02 | ERP | 0.080 | 4M51D7W |
| | 5 | 64QAM | 19.01 | ERP | 0.080 | 4M51D7W |
| | 10 | QPSK | 19.07 | ERP | 0.081 | 9M10G7D |
| | 10 | 16QAM | 19.02 | ERP | 0.080 | 9M09D7W |
| | 10 | 64QAM | 18.98 | ERP | 0.079 | 9M10D7W |

| LTE Band | BW (MHz) | Modulation | | /EIRP Bm) | (W) | Type of Emission |
|-------------|-------------|------------|-------|--------------|-------|---------------------|
| | 5 | QPSK | 19.41 | ERP | 0.087 | 4M54G7D |
| | 5 | 16QAM | 19.41 | ERP | 0.087 | 4M52D7W |
| 40 | 5 | 64QAM | 19.40 | ERP | 0.087 | 4M52D7W |
| 13 | 10 | QPSK | 19.49 | ERP | 0.089 | 9M01G7D |
| | 10 | 16QAM | 19.44 | ERP | 0.088 | 8M99D7W |
| | 10 | 64QAM | 19.34 | ERP | 0.086 | 9M01D7W |
| | 5 | QPSK | 19.44 | ERP | 0.088 | 4M52G7D |
| | 5 | 16QAM | 19.44 | ERP | 0.088 | 4M51D7W |
| 11 | 5 | 64QAM | 19.42 | ERP | 0.087 | 4M52D7W |
| 14 | 10 | QPSK | 19.48 | ERP | 0.089 | 9M04G7D |
| | 10 | 16QAM | 19.44 | ERP | 0.088 | 9M02D7W |
| | 10 | 64QAM | 19.36 | ERP | 0.086 | 8M99D7W |
| | 5 | QPSK | 18.92 | ERP | 0.078 | 4M53G7D |
| | 5 | 16QAM | 18.89 | ERP | 0.077 | 4M51D7W |
| 17 | 5 | 64QAM | 19.88 | ERP | 0.097 | 4M52D7W |
| 17 | 10 | QPSK | 19.07 | ERP | 0.081 | 9M05G7D |
| | 10 | 16QAM | 18.94 | ERP | 0.078 | 9M06D7W |
| | 10 | 64QAM | 18.95 | ERP | 0.079 | 9M05D7W |
| | 1.4 | QPSK | 18.91 | EIRP | 0.078 | 1M11G7D |
| | 1.4 | 16QAM | 18.92 | EIRP | 0.078 | 1M10D7W |
| | 1.4 | 64QAM | 18.92 | EIRP | 0.078 | 1M11D7W |
| | 3 | QPSK | 18.89 | EIRP | 0.077 | 2M72G7D |
| | 3 | 16QAM | 18.90 | EIRP | 0.078 | 2M72D7W |
| | 3 | 64QAM | 18.89 | EIRP | 0.077 | 2M71D7W |
| | 5 | QPSK | 18.89 | EIRP | 0.077 | 4M52G7D |
| | 5 | 16QAM | 18.88 | EIRP | 0.077 | 4M51D7W |
| 25 | 5 | 64QAM | 18.90 | EIRP | 0.078 | 4M52D7W |
| 23 | 10 | QPSK | 18.90 | EIRP | 0.078 | 9M08G7D |
| | 10 | 16QAM | 18.90 | EIRP | 0.078 | 9M07D7W |
| | 10 | 64QAM | 18.90 | EIRP | 0.078 | 9M07D7W |
| | 15 | QPSK | 18.91 | EIRP | 0.078 | 13M5G7D |
| | 15 | 16QAM | 18.89 | EIRP | 0.077 | 13M5D7W |
| | 15 | 64QAM | 18.91 | EIRP | 0.078 | 13M5D7W |
| | 20 | QPSK | 18.97 | EIRP | 0.079 | 18M0G7D |
| | 20 | 16QAM | 18.92 | EIRP | 0.078 | 18M1D7W |
| | 20 | 64QAM | 18.90 | EIRP | 0.078 | 18M0D7W |

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| LTE | BW | Modulation | FRP / FII | RP (dRm) | (W) | Type of |
|------|-------|------------|-----------|----------|---------|----------|
| Band | (MHz) | Moddiation | | (dDill) | (0 0) | Emission |
| | 1.4 | QPSK | 18.28 | ERP | 0.067 | |
| | 1.4 | 16QAM | 18.29 | ERP | 0.067 | 1M11D7W |
| | 1.4 | 64QAM | 18.27 | ERP | 0.067 | 1M11D7W |
| | 3 | QPSK | 18.28 | ERP | 0.067 | 2M73G7D |
| | 3 | 16QAM | 18.28 | ERP | 0.067 | 2M72D7W |
| | 3 | 64QAM | 18.28 | ERP | 0.067 | 2M72D7W |
| | 5 | QPSK | 18.25 | ERP | 0.067 | 4M53G7D |
| 26 | 5 | 16QAM | 18.27 | ERP | 0.067 | 4M52D7W |
| | 5 | 64QAM | 18.26 | ERP | 0.067 | 4M53D7W |
| | 10 | QPSK | 18.25 | ERP | 0.067 | 9M10G7D |
| | 10 | 16QAM | 18.25 | ERP | 0.067 | 9M10D7W |
| | 10 | 64QAM | 18.26 | ERP | 0.067 | 9M16D7W |
| | 15 | QPSK | 18.34 | ERP | 0.068 | 13M6G7D |
| | 15 | 16QAM | 18.29 | ERP | 0.067 | 13M6D7W |
| | 15 | 64QAM | 18.29 | ERP | 0.067 | 13M6D7W |
| | 1.4 | QPSK | 18.26 | ERP | 0.067 | 1M10G7D |
| | 1.4 | 16QAM | 18.25 | ERP | 0.067 | 1M11D7W |
| | 1.4 | 64QAM | 18.26 | ERP | 0.067 | 1M11D7W |
| | 3 | QPSK | 18.26 | ERP | 0.067 | 2M72G7D |
| | 3 | 16QAM | 18.26 | ERP | 0.067 | 2M72D7W |
| 26 | 3 | 64QAM | 18.23 | ERP | 0.067 | 2M72D7W |
| 90S | 5 | QPSK | 18.23 | ERP | 0.067 | 4M53G7D |
| | 5 | 16QAM | 18.19 | ERP | 0.066 | 4M51D7W |
| | 5 | 64QAM | 18.24 | ERP | 0.067 | 4M52D7W |
| | 10 | QPSK | 18.20 | ERP | 0.066 | 9M04G7D |
| | 10 | 16QAM | 18.19 | ERP | 0.066 | 9M01D7W |
| | 10 | 64QAM | 18.16 | ERP | 0.065 | 9M07D7W |
| | 5 | QPSK | 17.84 | EIRP | 0.061 | 4M52G7D |
| | 5 | 16QAM | 17.86 | EIRP | 0.061 | 4M52D7W |
| 20 | 5 | 64QAM | 17.86 | EIRP | 0.061 | 4M51D7W |
| 30 | 10 | QPSK | 17.92 | EIRP | 0.062 | 9M05G7D |
| | 10 | 16QAM | 17.86 | EIRP | | 9M01D7W |
| | 10 | 64QAM | 17.82 | EIRP | 0.061 | 9M05D7W |

| LTE Band | BW (MHz) | Modulation | ERP / EI | RP (dBm) | (W) | Type of Emission |
|-------------|-------------|------------|----------|----------|-------|------------------|
| Daria | 5 | QPSK | 17.45 | EIRP | 0.056 | 4M51G7D |
| | 5 | 16QAM | 17.46 | EIRP | 0.056 | 4M51D7W |
| | 5 | 64QAM | 17.41 | EIRP | 0.055 | 4M52D7W |
| | 10 | QPSK | 17.46 | EIRP | 0.056 | 9M07G7D |
| | 10 | 16QAM | 17.42 | EIRP | 0.055 | 9M05D7W |
| 38 | 10 | 64QAM | 17.43 | EIRP | 0.055 | 9M04D7W |
| 30 | 15 | QPSK | 17.46 | EIRP | 0.056 | 13M5G7D |
| | 15 | 16QAM | 17.46 | EIRP | 0.056 | 13M6D7W |
| | 15 | 64QAM | 17.46 | EIRP | 0.056 | 13M5D7W |
| | 20 | QPSK | 17.62 | EIRP | 0.058 | 18M0G7D |
| | 20 | 16QAM | 17.56 | EIRP | 0.057 | 18M0D7W |
| | 20 | 64QAM | 17.46 | EIRP | 0.056 | 18M0D7W |
| | 5 | QPSK | 17.82 | EIRP | 0.061 | 4M53G7D |
| | 5 | 16QAM | 17.73 | EIRP | 0.059 | 4M51D7W |
| | 5 | 64QAM | 17.73 | EIRP | 0.059 | 4M51D7W |
| | 10 | QPSK | 17.72 | EIRP | 0.059 | 9M06G7D |
| | 10 | 16QAM | 17.72 | EIRP | 0.059 | 9M07D7W |
| 41 | 10 | 64QAM | 17.73 | EIRP | 0.059 | 9M07D7W |
| 41 | 15 | QPSK | 17.74 | EIRP | 0.059 | 13M5G7D |
| | 15 | 16QAM | 17.74 | EIRP | 0.059 | 13M5D7W |
| | 15 | 64QAM | 17.74 | EIRP | 0.059 | 13M5D7W |
| | 20 | QPSK | 17.79 | EIRP | 0.060 | 18M0G7D |
| | 20 | 16QAM | 17.74 | EIRP | 0.059 | 18M0D7W |
| | 20 | 64QAM | 17.72 | EIRP | 0.059 | 18M0D7W |



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| | | ı | | | | ı |
|------|-------|---------------|------------------------|------|--------------|----------|
| LTE | BW | Modulation | ation ERP / EIRP (dBm) | | (\(\lambda\) | Type of |
| Band | (MHz) | IVIOUUIALIOIT | | | (W) | Emission |
| | 1.4 | QPSK | 19.26 | EIRP | 0.084 | 1M11G7D |
| | 1.4 | 16QAM | 19.26 | EIRP | 0.084 | 1M11D7W |
| | 1.4 | 64QAM | 19.25 | EIRP | 0.084 | 1M10D7W |
| | 3 | QPSK | 19.23 | EIRP | 0.084 | 2M73G7D |
| | 3 | 16QAM | 19.23 | EIRP | 0.084 | 2M72D7W |
| | 3 | 64QAM | 19.25 | EIRP | 0.084 | 2M72D7W |
| | 5 | QPSK | 19.26 | EIRP | 0.084 | 4M52G7D |
| | 5 | 16QAM | 19.26 | EIRP | 0.084 | 4M51D7W |
| 44 | 5 | 64QAM | 19.25 | EIRP | 0.084 | 4M51D7W |
| 66 | 10 | QPSK | 19.26 | EIRP | 0.084 | 9M09G7D |
| | 10 | 16QAM | 19.23 | EIRP | 0.084 | 9M11D7W |
| | 10 | 64QAM | 19.25 | EIRP | 0.084 | 9M10D7W |
| | 15 | QPSK | 19.25 | EIRP | 0.084 | 13M6G7D |
| | 15 | 16QAM | 19.25 | EIRP | 0.084 | 13M6D7W |
| | 15 | 64QAM | 19.25 | EIRP | 0.084 | 13M6D7W |
| | 20 | QPSK | 19.28 | EIRP | 0.085 | 18M0G7D |
| | 20 | 16QAM | 19.25 | EIRP | 0.084 | 18M0D7W |
| | 20 | 64QAM | 19.26 | EIRP | 0.084 | 18M0D7W |



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1.4. Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22, 24, 27, Part 90 R, S.

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

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

Compliance Certification Services Inc. Wugu Lab. No.11, Wugong 6th Rd.,

Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309)

FCC Designation number: TW1309

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) | 3.8 | 10 | 13.8 |
| High Band (Above 1 GHz) | 4.0 | 10 | 14 |

2.5. Final Amplifier Voltage and Current Information:

| Test Mode | DC voltage (V) | DC current (mA) |
|------------------------|----------------|-----------------|
| WCDMA B2 | | 659.4 |
| WCDMA B4 | | 699.4 |
| WCDMA B5 | | 702.4 |
| LTE Band 2 | | 778 |
| LTE Band 4 | | 865 |
| LTE Band 5 | | 650 |
| LTE Band 7 | | 638 |
| LTE Band 12 | | 646 |
| LTE Band 13 | 15.4 | 625 |
| LTE Band 14 | 15.4 | 668 |
| LTE Band 17 | | 628 |
| LTE Band 25 | | 648 |
| LTE Band 26 | | 685 |
| LTE Band 26 (Part 90S) | | 648 |
| LTE Band 30 | | 767 |
| LTE Band 38 | | 833 |
| LTE Band 41 | | 798 |
| LTE Band 66 | | 799 |

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2.6. Configuration of Tested System

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

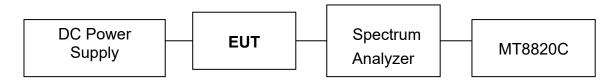


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

EUT Remote Side

Table 2-1 Equipment Used in

MT8820C

| Item | Equipment | Mfr/Brand | Model/ Type No. | Series No. | Data Cable | Power Cord |
|------|------------------------------|-----------|--------------------|------------|------------|-------------|
| 1. | Radio Communication Analyzer | Anritsu | MT8820C | 6201465317 | 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) §90.542 §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 §90.543 | 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) §90.543 | Field Strength of Spurious Radiation | Compliant |
| §24.232(d) §27.50((B) | Peak to Average Ratio | Compliant |
| §2.1055(a)(1) §22.355 §24.235 §27.54 §90.213 §90.539 | 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.
- 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 | RADIATED EMISSION |
|------------------------|----------------------|
| WCDMA/HSPA Band II | E2-plan |
| WCDMA/HSPA Band IV | E2-plan |
| WCDMA/HSPA Band V | E2-plan |
| LTE Band 2 | E2-plan |
| LTE Band 4 | E2-plan |
| LTE Band 5 | E2-plan |
| LTE Band 7 | E2-plan |
| LTE Band 12 | E2-plan |
| LTE Band 13 | E2-plan |
| LTE Band 14 | E2-plan |
| LTE Band 17 | E2-plan |
| LTE Band 25 | E2-plan |
| LTE Band 26 | E2-plan |
| LTE Band 26 (Part 90S) | E2-plan |
| LTE Band 30 | E2-plan |
| LTE Bnad 38 | E2-plan |
| LTE Band 41 | E2-plan |
| LTE Band 66 | 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 1312 to 1513 | 1312, 1413, 1513 9262, 9400, 9538 | WCDMA/HSPA Band II WCDMA/HSPA Band IV |
| FREQUENCY STABILITY | 4132 to 4233 1312 to 1513 9262 to 9538 | 4183 1413 9400 | WCDMA Band II WCDMA Band IV WCDMA Band V |
| OCCUPIED BANDWIDTH | 4132 to 4233 1312 to 1513 9262 to 9538 | 4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9538 | WCDMA/HSPA Band IV WCDMA/HSPA Band IV WCDMA/HSPA Band V |
| PEAK TO AVERAGE RATIO | 4132 to 4233 1312 to 1513 | 4132, 4183, 4233 1312, 1413, 1513 | WCDMA/HSPA Band II WCDMA/HSPA Band IV |
| BAND EDGE | 4132 to 4233 1312 to 1513 9262 to 9538 | 4132, 4233 1312, 1513 9262, 9538 | WCDMA Band II WCDMA Band IV WCDMA Band V |
| CONDCUDETED EMISSION | 4132 to 4233 1312 to 1513 9262 to 9538 | 4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9538 | WCDMA Band II WCDMA Band IV WCDMA Band V |
| RADIATED EMISSION | 4132 to 4233 1312 to 1513 9262 to 9538 | 4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9538 | WCDMA Band II WCDMA Band IV WCDMA Band V |



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LTE Band 2 MODE

| LIE Dallu Z IVI | | | | | |
|------------------------|-------------------|---------------------|-------------------|--------------------|---------------------------------|
| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
| | 18607 to 19193 | 18607, 18900, 19193 | 1.4MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,5 RB Offest |
| | | 18615, 18900, 19185 | 3MHz | QPSK, 16QAM, 64QAM | |
| FIDD | | 18625, 18900, 19175 | 5MHz | QPSK, 16QAM, 64QAM | |
| EIRP | | 18650, 18900, 19150 | 10MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest |
| | | 18675, 18900, 19125 | 15MHz | QPSK, 16QAM, 64QAM | |
| | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,99 RB Offest |
| FREQUENCY STABILITY | 18650 to 19150 | 18900 | 10MHz | QPSK | Full RB |
| | 18607 to 19193 | 18607, 18900, 19193 | 1.4MHz | QPSK, 16QAM, 64QAM | Full RB |
| | | 18615, 18900, 19185 | | QPSK, 16QAM, 64QAM | |
| OCCUPIED | | 18625, 18900, 19175 | 5MHz | QPSK, 16QAM, 64QAM | |
| BANDWIDTH | | 18650, 18900, 19150 | 10MHz | QPSK, 16QAM, 64QAM | |
| | | 18675, 18900, 19125 | 15MHz | QPSK, 16QAM, 64QAM | |
| | | 18700, 18900, 19100 | 20MHz | QPSK, 16QAM, 64QAM | Full RB |
| | | 18607, 18900, 19193 | 1.4MHz | 64QAM | Full RB |
| | | 18615, 18900, 19185 | 3MHz | 64QAM | Full RB |
| PEAK TO AVER- | | 18625, 18900, 19175 | 5MHz | 64QAM | Full RB |
| AGE RATIO | | 18650, 18900, 19150 | 10MHz | 64QAM | Full RB |
| | 18675 to 19125 | 18675, 18900, 19125 | 15MHz | 64QAM | Full RB |
| | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | 64QAM | Full RB |
| | 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 |
| BAND EDGE | 18625 to 19175 | 18625, 19175 | 5MHz | QPSK | 1 RB/ 0,24 RB Offest Full RB |
| BAND EBGE | 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 | - | 20MHz | QPSK | 1 RB/ 0,99 RB Offest Full RB |
| | | 18607, 18900, 19193 | 1.4MHz | QPSK | 1 RB, 0 RB Offest |
| | | 18615, 18900, 19185 | 3MHz | QPSK | 1 RB, 0 RB Offest |
| CONDCUDETED EMISSION | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | QPSK | 1 RB, 0 RB Offest |
| | | 18650, 18900, 19150 | 10MHz | QPSK | 1 RB, 0 RB Offest |
| | | 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, 1,0 RB Offest |



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LTE Band 4 MODE

| TEST ITEM | AVAILABLE CHANNEL | | CHANNEL BANDWIDTH | MODULATION | MODE |
|------------------------|-------------------|---------------------|-------------------|--------------------|---------------------------------|
| | 19957 to 19393 | 19957, 20175, 19393 | 1.4MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,5 RB Offest |
| | | 19965, 20175, 22385 | 3MHz | QPSK, 16QAM, 64QAM | |
| | | 19975, 20175, 20375 | 5MHz | QPSK, 16QAM, 64QAM | - |
| EIRP | | 20000, 20175, 20350 | 10MHz | QPSK, 16QAM, 64QAM | - |
| | | 20025, 20175, 20325 | 15MHz | QPSK, 16QAM, 64QAM | - |
| | | 20050, 20175, 20300 | 20MHz | QPSK, 16QAM, 64QAM | |
| FREQUENCY STABILITY | 20000 to 20350 | 20175 | 10MHz | QPSK | Full RB |
| | 19957 to 19393 | 19957, 20175, 19393 | 1.4MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 19965 to 22385 | 19965, 20175, 22385 | 3MHz | QPSK, 16QAM, 64QAM | |
| OCCUPIED | | 19975, 20175, 20375 | 5MHz | QPSK, 16QAM, 64QAM | |
| BANDWIDTH | | 20000, 20175, 20350 | 10MHz | QPSK, 16QAM, 64QAM | Full RB |
| | | 20025, 20175, 20325 | 15MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 20050 to 20300 | 20050, 20175, 20300 | 20MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 19957 to 19393 | 19957, 20175, 19393 | 1.4MHz | 64QAM | Full RB |
| | | 19965, 20175, 22385 | 3MHz | 64QAM | Full RB |
| PEAK TO AVER- | 19975 to 20375 | 19975, 20175, 20375 | 5MHz | 64QAM | Full RB |
| AGE RATIO | | 20000, 20175, 20350 | 10MHz | 64QAM | Full RB |
| | 20025 to 20325 | 20025, 20175, 20325 | 15MHz | 64QAM | Full RB |
| | 20050 to 20300 | 20050, 20175, 20300 | 20MHz | 64QAM | Full RB |
| | 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 |
| BAND EDGE | 19975 to 20375 | 19975, 20375 | 5MHz | QPSK | 1 RB/ 0,24 RB Offest Full RB |
| DANA LOOL | 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 |
| | | 19957, 20175, 19393 | | QPSK | 1 RB, 0 RB Offest |
| | | 19965, 20175, 22385 | 3MHz | QPSK | 1 RB, 0 RB Offest |
| CONDCUDETED EMISSION | | | | QPSK | 1 RB, 0 RB Offest |
| | | 20000, 20175, 20350 | 10MHz | QPSK | 1 RB, 0 RB Offest |
| | | 20025, 20175, 20325 | 15MHz | QPSK | 1 RB, 0 RB Offest |
| | 20050 to 20300 | 20050, 20175, 20300 | 20MHz | QPSK | 1 RB, 0 RB Offest |
| RADIATED EMISSION | 20050 to 20300 | 20050, 20175, 20300 | 20MHz | QPSK | 1 RB, 0 RB Offest |



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LTE Band 5 MODE

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



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LTE Band 7 MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | | MODE |
|------------------------|----------------------|---------------------|----------------------|--------------------|--|
| | 20775 to 21425 | 20775, 21100, 21425 | 5MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest |
| EIRP | 20800 to 21400 | 20800, 21100, 21400 | 10MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest |
| LINE | 20850 to 21375 | 20850, 21100, 21375 | 15MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,74 RB Offest |
| | 20850 to 21350 | 20850, 21100, 21350 | 20MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,99 RB Offest |
| FREQUENCY STABILITY | 20800 to 21400 | 21100 | 10MHz | QPSK | Full RB |
| | 20775 to 21425 | 20775, 21100, 21425 | 5MHz | QPSK, 16QAM, 64QAM | Full RB |
| OCCUPIED | 20800 to 21400 | 20800, 21100, 21400 | 10MHz | QPSK, 16QAM, 64QAM | Full RB |
| BANDWIDTH | 20850 to 21375 | 20850, 21100, 21375 | 15MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 20850 to 21350 | 20850, 21100, 21350 | 20MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 20775 to 21425 | 20775, 21100, 21425 | 5MHz | 64QAM | Full RB |
| PEAK TO AVER- | 20800 to 21400 | 20800, 21100, 21400 | 10MHz | 64QAM | Full RB |
| AGE RATIO | 20850 to 21375 | 20850, 21100, 21375 | | 64QAM | Full RB |
| | 20850 to 21350 | | | 64QAM | Full RB |
| | 20775 to 21425 | 20775, 21100, 21425 | | QPSK | 1 RB, 0 RB Offest |
| CONDUCTED | 20800 to 21400 | 20800, 21100, 21400 | | QPSK | 1 RB, 0 RB Offest |
| EMISSION | 20850 to 21375 | 20850, 21100, 21375 | | QPSK | 1 RB, 0 RB Offest |
| | 20850 to 21350 | 20850, 21100, 21350 | 20MHz | QPSK | 1 RB, 0 RB Offest |
| RADIATED EMISSION | 20850 to 21350 | 20850, 21100, 21350 | 20MHz | QPSK | 1 RB, 0 RB Offest |
| | 20775 to 21425 | 20775, 21100, 21425 | 5MHz | QPSK | 1 RB/ 0,24 RB Offest 25 RB/ 0 Offset |
| EMISSION MASK | 20800 to 21400 | 20800, 21100, 21400 | 10MHz | QPSK | 1 RB/ 0,49 RB Offest 50 RB/ 0 Offset |
| LIVIOSION WASK | 20850 to 21375 | 20850, 21100, 21375 | 15MHz | QPSK | 1 RB/ 0,74 RB Offest 75 RB/ 0 Offset |
| | 20850 to 21350 | 20850, 21100, 21350 | 20MHz | QPSK | 1 RB/ 0,99 RB Offest 100 RB/ 0 Offset |



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LTE Band 12 MODE

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



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LTE Band 13 MODE

| LIE BAIIG 13 MODE | | | | | | |
|------------------------|----------------------|---------------------|-------------------|--------------------|------------------------------------|--|
| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE | |
| ERP | 23205 to 23255 | 23205, 23230, 23255 | 5MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest | |
| LIXE | 23230 | 23230 | 10MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest | |
| FREQUENCY STABILITY | 23230 | 23230 | 10MHz | QPSK | Full RB | |
| OCCUPIED | 23205 to 23255 | 23205, 23230, 23255 | 5MHz | QPSK, 16QAM, 64QAM | Full RB | |
| BANDWIDTH | 23230 | 23230 | 10MHz | QPSK, 16QAM, 64QAM | Full RB | |
| PEAK TO AV- | 23205 to 23255 | 23205, 23230, 23255 | 5MHz | 64QAM | Full RB | |
| ERAGE RATIO | 23230 | 23230 | 10MHz | 64QAM | Full RB | |
| BAND EDGE | 23205 to 23255 | 23205, 23255 | 5MHz | QPSK | 1 RB/ 0,24 RB Offest Full RB | |
| BAND EDGE | 23230 | 23230 | 10MHz | QPSK | 1 RB/ 0,49 RB Offest Full RB | |
| CONDCU- | 23205 to 23255 | 23205, 23230, 23255 | 5MHz | QPSK | 1 RB, 0 RB Offest | |
| DETED EMIS- SION | 23230 | 23230 | 10MHz | QPSK | 1 RB, 0 RB Offest | |
| RADIATED EMISSION | 23230 | 23230 | 10MHz | QPSK | 1 RB, 49 RB Offest | |

LTE Band 14 MODE

| LIE Band 14 MODE | | | | | | |
|------------------------|-------------------|-------------------|----------------------|--------------------|------------------------------------|--|
| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE | |
| ERP | 23305 to 23355 | 23305,23330,23355 | 5MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest | |
| ENF | 23330 | 23330 | 10MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest | |
| FREQUENCY STABILITY | 23330 | 23330 | 10MHz | QPSK | Full RB | |
| OCCUPIED | 23305 to 23355 | 23305,23330,23355 | 5MHz | QPSK, 16QAM, 64QAM | Full RB | |
| BANDWIDTH | 23330 | 23330 | 10MHz | QPSK, 16QAM, 64QAM | Full RB | |
| EMISSION | 23305 to 23355 | 23305, 23355 | 5MHz | QPSK | 1 RB/ 0,24 RB Offest Full RB | |
| MASK | 23330 | 23330 | 10MHz | QPSK | 1 RB/ 0,49 RB Offest Full RB | |
| CONDCU- | 23305 to 23355 | 23305,23330,23355 | 5MHz | QPSK | 1 RB, 0 RB Offest | |
| DETED EMIS- SION | 23330 | 23330 | 10MHz | QPSK | 1 RB, 0 RB Offest | |
| RADIATED EMISSION | 23330 | 23330 | 10MHz | QPSK | 1 RB, 0 RB Offest | |



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LTE Band 17 MODE

| LIL Dalla II IV | | | | | |
|------------------------|----------------------|---------------------|----------------------|--------------------|------------------------------------|
| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
| ERP | 23755 to 23825 | 23755, 23790, 23825 | 5MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest |
| ENF | 23780 to 23800 | 23780, 23790, 23800 | 10MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest |
| FREQUENCY STABILITY | 23780 to 23800 | 23790 | 10MHz | QPSK | Full RB |
| OCCUPIED | 23755 to 23825 | 23755, 23790, 23825 | 5MHz | QPSK, 16QAM, 64QAM | Full RB |
| BANDWIDTH | 23780 to 23800 | 23780, 23790, 23800 | 10MHz | QPSK, 16QAM, 64QAM | Full RB |
| PEAK TO AV- | 23755 to 23825 | 23755, 23790, 23825 | 5MHz | 64QAM | Full RB |
| ERAGE RATIO | 23780 to 23800 | 23780, 23790, 23800 | 10MHz | 64QAM | Full RB |
| BAND EDGE | 23755 to 23825 | 23755, 23825 | 5MHz | QPSK | 1 RB/ 0,24 RB Offest Full RB |
| BAND EDGE | 23780 to 23800 | 23780, 23800 | 10MHz | QPSK | 1 RB/ 0,49 RB Offest Full RB |
| CONDCU- | 23755 to 23825 | 23755, 23790, 23825 | 5MHz | QPSK | 1 RB, 0 RB Offest |
| DETED EMIS- SION | 23780 to 23800 | 23780, 23790, 23800 | 10MHz | QPSK | 1 RB, 0 RB Offest |
| RADIATED EMISSION | 23780 to 23800 | 23780, 23800 | 10MHz | QPSK | 1 RB, 49 RB Offest |



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LTE Band 25 MODE

| LIE Bang 25 MODE | | | | | | |
|------------------------|----------------------|---------------------|---|-----------------------|------------------------------|--|
| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE | |
| | 26047 to 26683 | 26047, 26365, 26683 | 1.4MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,5 RB Offest | |
| | 26055 to 26675 | 26055, 26365, 26675 | 3MHz | 64QAM | 1 RB/ 0,14 RB Offest | |
| EIRP | 26065 to 26665 | 26065, 26365, 26665 | 5MHz | 64QAM | 1 RB/ 0,24 RB Offest | |
| LIIVI | 26090 to 26640 | 26090, 26365, 26640 | 10MHz | 64QAM | 1 RB/ 0,49 RB Offest | |
| | 26115 to 26615 | 26115, 26365, 26615 | 15MHz | 64QAM | 1 RB/ 0,74 RB Offest | |
| | 26140 to 26590 | 26140, 26365, 26590 | 20MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,99 RB Offest | |
| FREQUENCY STABILITY | 18650 to 19150 | 18900 | 10MHz | QPSK | Full RB | |
| | 26047 to 26683 | 26047, 26365, 26683 | 1.4MHz | QPSK, 16QAM, 64QAM | Full RB | |
| | 26055 to 26675 | 26055, 26365, 26675 | 3MHz | 64QAM | Full RB | |
| OCCUPIED | 26065 to 26665 | 26065, 26365, 26665 | 5MHz | 64QAM | Full RB | |
| BANDWIDTH | 26090 to 26640 | 26090, 26365, 26640 | 10MHz | 64QAM | Full RB | |
| | 26115 to 26615 | 26115, 26365, 26615 | 15MHz | 64QAM | Full RB | |
| | | 26140, 26365, 26590 | | 64QAM | Full RB | |
| | 26047 to 26683 | 26047, 26365, 26683 | 1.4MHz | 64QAM | Full RB | |
| | 26055 to 26675 | 26055, 26365, 26675 | 3MHz | 64QAM | Full RB | |
| PEAK TO AVER- | 26065 to 26665 | 26065, 26365, 26665 | 5MHz | 64QAM | Full RB | |
| AGE RATIO | 26090 to 26640 | 26090, 26365, 26640 | 10MHz | 64QAM | Full RB | |
| | 26115 to 26615 | 26115, 26365, 26615 | 15MHz | 64QAM | Full RB | |
| | 26140 to 26590 | 26140, 26365, 26590 | 20MHz | 64QAM | Full RB | |
| | 26047 to 26683 | 26047, 26683 | 1.4MHz | QPSK | 1 RB/ 0,5 RB Offes Full RB | |
| | 26055 to 26675 | 26055, 26675 | 3MHz | QPSK | 1 RB/ 0,14 RB Offest Full RB | |
| | 26065 to 26665 | 26065, 26665 | 5MHz | QPSK | 1 RB/ 0,24 RB Offest Full RB | |
| BAND EDGE | 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 | |
| | 26047 to 26683 | 26047, 26365, 26683 | 1.4MHz | QPSK | 1 RB, 0 RB Offest | |
| | 26055 to 26675 | 26055, 26365, 26675 | 3MHz | QPSK | 1 RB, 0 RB Offest | |
| CONDCUDETED | | 26065, 26365, 26665 | 5MHz | QPSK | 1 RB, 0 RB Offest | |
| EMISSION | | 26090, 26365, 26640 | 10MHz | QPSK | 1 RB, 0 RB Offest | |
| | | 26115, 26365, 26615 | EL BANDWIDTH MODULATION 26683 1.4MHz QPSK, 16QAM, 64QAM 26675 3MHz QPSK, 16QAM, 64QAM 26665 5MHz QPSK, 16QAM, 64QAM 26640 10MHz QPSK, 16QAM, 64QAM 26690 20MHz QPSK, 16QAM, 64QAM 26690 20MHz QPSK, 16QAM, 64QAM 26675 3MHz QPSK, 16QAM, 64QAM 26665 5MHz QPSK, 16QAM, 64QAM 26640 10MHz QPSK, 16QAM, 64QAM 26640 10MHz QPSK, 16QAM, 64QAM 26690 20MHz QPSK, 16QAM, 64QAM 26690 20MHz QPSK, 16QAM, 64QAM 26690 20MHz QPSK, 16QAM, 64QAM 26675 3MHz QPSK, 16QAM, 64QAM 26675 3MHz GPSK, 16QAM, 64QAM 26675 3MHz GPSK, 16QAM, 64QAM 26665 5MHz GPSK, 16QAM, 64QAM 26675 3MHz GPSK 26615 15MHz GPSK 361 15MHz QP | 1 RB, 0 RB Offest | | |
| | | 26140, 26365, 26590 | | | 1 RB, 0 RB Offest | |
| RADIATED EMISSION | 26140 to 26590 | 26140, 26365, 26590 | 20MHz | QPSK | 1 RB, 0 RB Offest | |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此根告结果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。
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LTE Band 26 MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
|--|----------------------|---------------------|---|--|---------------------------------|
| FREQUENCY STABILITY OCCUPIED BANDWIDTH BAND EDGE | 26797 to 27033 | 26797, 26915, 27033 | 1.4MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,5 RB Offest |
| | 26805 to 27025 | 26805, 26915, 27025 | 3MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,14 RB Offest |
| ERP | 26815 to 27015 | 26815, 26915, 27015 | 5MHz | IDWIDTH MODULATION .4MHz QPSK, 16QAM, 64QAM 3MHz QPSK, 16QAM, 64QAM 5MHz QPSK, 16QAM, 64QAM IOMHz QPSK, 16QAM, 64QAM ISMHz QPSK, 16QAM, 64QAM ISMHz QPSK, 16QAM, 64QAM 3MHz QPSK, 16QAM, 64QAM 5MHz QPSK, 16QAM, 64QAM ISMHz QPSK, 16QAM, 64QAM ISMHz QPSK, 16QAM, 64QAM ISMHz QPSK | 1 RB/ 0,24 RB Offest |
| | 26840 to 26990 | 26840, 26915, 26990 | BANDWIDTH MODULATION 1.4MHz QPSK, 16QA 64QAM QPSK 15MHz QPSK 3MHz QPSK 15MHz QPSK 15MHz QPSK 15MHz QPSK 3MHz QPSK 5MHz QPSK | 64QAM | 1 RB/ 0,49 RB Offest |
| | 26865 to 26965 | 26865, 26915, 26965 | 15MHz | | 1 RB/ 0,74 RB Offest |
| 1 | 26865 to 26965 | 26915 | 15MHz | QPSK | Full RB |
| | 26797 to 27033 | 26797, 26915, 27033 | 1.4MHz | 64QAM | Full RB |
| | 26805 to 27025 | 26805, 26915, 27025 | 3MHz | | Full RB |
| | 26815 to 27015 | 26815, 26915, 27015 | 5MHz | 64QAM | Full RB |
| | 26840 to 26990 | 26840, 26915, 26990 | 10MHz | 64QAM | Full RB |
| | 26865 to 26965 | 26865, 26915, 26965 | 15MHz | • | Full RB |
| | 26797 to 27033 | 26797, 26915, 27033 | 1.4MHz | QPSK | 1 RB/ 0,5 RB Offes Full RB |
| | 26805 to 27025 | 26805, 26915, 27025 | 3MHz | QPSK | 1 RB/ 0,14 RB Offest Full RB |
| BAND EDGE | 26815 to 27015 | 26815, 26915, 27015 | 5MHz | QPSK | 1 RB/ 0,24 RB Offest Full RB |
| | 26840 to 26990 | 26840, 26915, 26990 | 10MHz | MINDOULATION MI | 1 RB/ 0,49 RB Offest Full RB |
| | 26865 to 26965 | 26865, 26915, 26965 | 15MHz | QPSK | 1 RB/ 0,74 RB Offest |
| | | 26797, 26915, 27033 | | • | 1 RB, 0 RB Offest |
| CONDCUDETED | | 26805, 26915, 27025 | | | 1 RB, 0 RB Offest |
| EMISSION | | 26815, 26915, 27015 | IANNEL BANDWIDTH MODULATION 26915, 27033 1.4MHz QPSK, 16QAM, 64QAM 26915, 27025 3MHz QPSK, 16QAM, 64QAM 26915, 27015 5MHz QPSK, 16QAM, 64QAM 26915, 26990 10MHz QPSK, 16QAM, 64QAM 26915, 26965 15MHz QPSK, 16QAM, 64QAM 26915, 27033 1.4MHz QPSK, 16QAM, 64QAM 26915, 27025 3MHz QPSK, 16QAM, 64QAM 26915, 27015 5MHz QPSK, 16QAM, 64QAM 26915, 27015 5MHz QPSK, 16QAM, 64QAM 26915, 26990 10MHz QPSK, 16QAM, 64QAM 26915, 26965 15MHz QPSK, 16QAM, 64QAM 26915, 27033 1.4MHz QPSK 26915, 27033 1.4MHz QPSK 26915, 27025 3MHz QPSK 26915, 27015 5MHz QPSK 26915, 27025 3MHz QPSK 26915, 27033 1.4MHz QPSK 26915, 26965 15MHz QPSK 26915, 27035 1.4MHz QPSK | 1 RB, 0 RB Offest | |
| 21111001014 | | 26840, 26915, 26990 | | 1 RB, 0 RB Offest | |
| DADIATED | 26865 to 26965 | 26865, 26915, 26965 | 15MHz | QPSK | 1 RB, 0 RB Offest |
| RADIATED EMISSION | 26865 to 26965 | 26865, 26915, 26965 | 15MHz | QPSK | 75 RB, 0 RB Offest |



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LTE Band 26 for 90S MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
|------------------------|-------------------|---------------------|--|---------------------------|---------------------------------|
| | 26697 to 26783 | 26697, 26740, 26783 | 1.4MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,5 RB Offest |
| ERP | 26705 to 26775 | 26705, 26740, 26775 | 3MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,14 RB Offest |
| LINF | 26715 to 26765 | 26715, 26740, 26765 | 5MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest |
| | 26740 | 26740 | 10MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest |
| FREQUENCY STABILITY | 26697 to 26783 | 26740 | 1.4MHz | QPSK | Full RB |
| | 26697 to 26783 | 26697, 26740, 26783 | 1.4MHz | 1.4MHz QPSK, 16QAM, 64QAM | Full RB |
| OCCUPIED | 26705 to 26775 | 26705, 26740, 26775 | 7, 26740, 26783 1.4MHZ 64QAM 5, 26740, 26775 3MHZ QPSK, 16QAM, 64QAM 5, 26740, 26765 5MHZ QPSK, 16QAM, 64QAM | Full RB | |
| BANDWIDTH | 26715 to 26765 | 26715, 26740, 26765 | 5MHz | 64QAM | Full RB |
| | 26740 | 26740 | 10MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 26697 to 26783 | 26697, 26740, 26783 | 1.4MHz | QPSK | 1 RB/ 0,5 RB Offes Full RB |
| | 26705 to 26775 | 26705, 26740, 26775 | 3MHz | QPSK | 1 RB/ 0,14 RB Offest Full RB |
| EMISSION MASK | 26715 to 26765 | 26715, 26740, 26765 | 5MHz | QPSK | 1 RB/ 0,24 RB Offest Full RB |
| | 26740 | 26740 | 10MHz | QPSK | 1 RB/ 0,49 RB Offest Full RB |
| | 26697 to 26783 | 26697, 26740, 26783 | 1.4MHz | QPSK | 1 RB, 0 RB Offest |
| CONDCUDETED | | 26705, 26740, 26775 | 3MHz | QPSK | 1 RB, 0 RB Offest |
| EMISSION | 26715 to 26765 | 26715, 26740, 26765 | 5MHz | QPSK | 1 RB, 0 RB Offest |
| | 26740 | 26740 | 10MHz | QPSK | 1 RB, 0 RB Offest |
| RADIATED EMISSION | 26705 to 26775 | 26705, 26740, 26775 | 3MHz | QPSK | 8 RB, 4 RB Offest |



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LTE Band 30 MODE

| | LIE Baild 30 MODE | | | | | | |
|------------------------|-------------------|---------------------|----------------------|--------------------|------------------------------------|--|--|
| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE | | |
| ERP | 27685 to 27735 | 27685, 27710, 27735 | 5MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest | | |
| LINE | 27710 | 27710 | 10MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest | | |
| FREQUENCY STABILITY | 27710 | 27710 | 10MHz | QPSK | Full RB | | |
| OCCUPIED | 27685 to 27735 | 27685, 27710, 27735 | 5MHz | QPSK, 16QAM, 64QAM | Full RB | | |
| BANDWIDTH | 27710 | 27710 | 10MHz | QPSK, 16QAM, 64QAM | Full RB | | |
| PEAK TO AV- | 27685 to 27735 | 27685, 27710, 27735 | 5MHz | 64QAM | Full RB | | |
| ERAGE RATIO | 27710 | 27710 | 10MHz | 64QAM | Full RB | | |
| EMISSION | 27685 to 27735 | 27685, 27710, 27735 | 5MHz | QPSK | 1 RB/ 0,24 RB Offest Full RB | | |
| MASK | 27710 | 27710 | 10MHz | QPSK | 1 RB/ 0,49 RB Offest Full RB | | |
| CONDCU- DETED EMIS- | 27685 to 27735 | 27685, 27710, 27735 | 5MHz | QPSK | 1 RB, 0 RB Offest | | |
| SION | 27710 | 27710 | 10MHz | QPSK | 1 RB, 0 RB Offest | | |
| RADIATED EMISSION | 27710 | 27710 | 10MHz | QPSK | 1 RB, 0 RB Offest | | |



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LTE Band 38 MODE

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
|------------------------|----------------------|----------------------|----------------------|-----------------------|--|
| | 37775 to 38225 | 37775, 38000, 38225 | 5MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest |
| EIRP | 37800 to 38200 | 37800 , 38000, 38200 | 10MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest |
| LIIVI | 37825 to 38175 | 37825 , 38000, 38175 | 15MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,74 RB Offest |
| | 37850 to 38150 | 37850 , 38000, 38150 | 20MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,99 RB Offest |
| FREQUENCY STABILITY | 37800 to 38200 | 37800 , 38000, 38200 | 10MHz | QPSK | Full RB |
| | 37775 to 38225 | 37775, 38000, 38225 | 5MHz | QPSK, 16QAM, 64QAM | Full RB |
| OCCUPIED | 37800 to 38200 | 37800 , 38000, 38200 | 10MHz | QPSK, 16QAM, 64QAM | Full RB |
| BANDWIDTH | 37825 to 38175 | 37825 , 38000, 38175 | 15MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 37850 to 38150 | 37850 , 38000, 38150 | | QPSK, 16QAM, 64QAM | Full RB |
| | 37775 to 38225 | 37775, 38000, 38225 | 5MHz | 64QAM | Full RB |
| PEAK TO AVER- | | 37800 , 38000, 38200 | | 64QAM | Full RB |
| AGE RATIO | | 37825 , 38000, 38175 | 15MHz | 64QAM | Full RB |
| | | 37850 , 38000, 38150 | 20MHz | 64QAM | Full RB |
| | 37775 to 38225 | 37775, 38000, 38225 | 5MHz | QPSK | 1 RB, 0 RB Offest |
| CONDUCTED | | 37800 , 38000, 38200 | 10MHz | QPSK | 1 RB, 0 RB Offest |
| EMISSION | | 37825 , 38000, 38175 | 15MHz | QPSK | 1 RB, 0 RB Offest |
| | 37850 to 38150 | 37850 , 38000, 38150 | 20MHz | QPSK | 1 RB, 0 RB Offest |
| RADIATED EMISSION | 37850 to 38150 | 37850 , 38000, 38150 | 20MHz | QPSK | 1 RB, 0 RB Offest |
| | 37775 to 38225 | 37775, 38000, 38225 | 5MHz | QPSK | 1 RB/ 0,24 RB Offest 25 RB/ 0 Offset |
| EMISSION MASK | 37800 to 38200 | 37800 , 38000, 38200 | 10MHz | QPSK | 1 RB/ 0,49 RB Offest 50 RB/ 0 Offset |
| LIVIIOGION WIAGK | 37825 to 38175 | 37825 , 38000, 38175 | 15MHz | QPSK | 1 RB/ 0,74 RB Offest 75 RB/ 0 Offset |
| | 37850 to 38150 | 37850 , 38000, 38150 | 20MHz | QPSK | 1 RB/ 0,99 RB Offest 100 RB/ 0 Offset |



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LTF Band 41 MODE

| LTE Band 41 MODE | | | | | | |
|------------------------|-------------------|------------------------|----------------------|-----------------------|--|--|
| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE | |
| | 39675 to 41565 | 39675, 40620, 41565 | 5MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest | |
| EIRP | 39700 to 41540 | 39700, 40620, 41540 | 10MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest | |
| LIIVE | 39725 to 41515 | 39725, 40620, 41515 | 15MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,74 RB Offest | |
| | 39750 to 41490 | 39750, 40620, 41490 | 20MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,99 RB Offest | |
| FREQUENCY STABILITY | 39700 to 41540 | 39700, 40620, 41540 | 10MHz | QPSK | Full RB | |
| | 39675 to 41565 | 39675, 40620, 41565 | 5MHz | QPSK, 16QAM, 64QAM | Full RB | |
| OCCUPIED | 39700 to 41540 | 39700, 40620, 41540 | 10MHz | QPSK, 16QAM, 64QAM | Full RB | |
| BANDWIDTH | 39725 to 41515 | 39725, 40620, 41515 | 15MHz | QPSK, 16QAM, 64QAM | Full RB | |
| | 39750 to 41490 | 39750, 40620, 41490 | 20MHz | QPSK, 16QAM, 64QAM | Full RB | |
| | 39675 to 41565 | 39675, 40620, 41565 | 5MHz | 64QAM | Full RB | |
| PEAK TO AVER- | 39700 to 41540 | 39700, 40620, 41540 | 10MHz | 64QAM | Full RB | |
| AGE RATIO | 39725 to 41515 | 39725, 40620, 41515 | 15MHz | 64QAM | Full RB | |
| | 39750 to 41490 | 39750, 40620, 41490 | 20MHz | 64QAM | Full RB | |
| | 39675 to 41565 | 39675, 40620, 41565 | 5MHz | QPSK | 1 RB, 0 RB Offest | |
| CONDCUDETED | 39700 to 41540 | 39700, 40620, 41540 | 10MHz | QPSK | 1 RB, 0 RB Offest | |
| EMISSION | 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 | |
| | 39675 to 41565 | 39675, 40620, 41565 | 5MHz | QPSK | 1 RB/ 0,24 RB Offest 25 RB/ 0 Offset | |
| EMISSION MASK | 39700 to 41540 | 39700, 40620, 41540 | 10MHz | QPSK | 1 RB/ 0,49 RB Offest 50 RB/ 0 Offset | |
| LIVIIOGION WASK | 39725 to 41515 | 39725, 40620, 41515 | 15MHz | QPSK | 1 RB/ 0,74 RB Offest 75 RB/ 0 Offset | |
| | 39750 to 41490 | 39750, 40620, 41490 | 20MHz | QPSK | 1 RB/ 0,99 RB Offest 100 RB/ 0 Offset | |
| RADIATED EMISSION | 39750 to 41490 | 39750, 40620, 41490 | 20MHz | QPSK | 1 RB, 0 RB Offest | |



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LTE Band 66 MODE

| LIE Band 66 M | | TECTED | CHANNEL | | |
|------------------------|---------------------|---------------------------|-------------------|-----------------------|------------------------------|
| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
| | 131979 to 132665 | 131979, 132322, 132665 | 1.4MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,5 RB Offest |
| | 131987 to 132657 | 131987, 132322, 132657 | 3MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,14 RB Offest |
| EIRP | 131997 to 132647 | 131997, 132322, 132647 | 5MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,24 RB Offest |
| LIKP | 132022 to 132622 | 132022, 132322, 132622 | 10MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,49 RB Offest |
| | 132047 to 132597 | 132047, 132322, 132597 | 15MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,74 RB Offest |
| | 132072 to 132572 | 132072, 132322, 132572 | 20MHz | QPSK, 16QAM, 64QAM | 1 RB/ 0,99 RB Offest |
| FREQUENCY STABILITY | 18650 to 19150 | 18900 | 10MHz | QPSK | Full RB |
| | 131979 to 132665 | 131979, 132322, 132665 | 1.4MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 131987 to 132657 | 131987, 132322, 132657 | 3MHz | QPSK, 16QAM, 64QAM | Full RB |
| OCCUPIED | 131997 to 132647 | 131997, 132322, 132647 | 5MHz | QPSK, 16QAM, 64QAM | Full RB |
| BANDWIDTH | 132022 to 132622 | 132022, 132322, 132622 | 10MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 132047 to 132597 | 132047, 132322, 132597 | 15MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 132072 to 132572 | 132072, 132322, 132572 | 20MHz | QPSK, 16QAM, 64QAM | Full RB |
| | 131979 to 132665 | 131979, 132322, 132665 | 1.4MHz | 64QAM | Full RB |
| | 131987 to 132657 | 131987, 132322, 132657 | 3MHz | 64QAM | Full RB |
| PEAK TO AVER- | 131997 to 132647 | 131997, 132322, 132647 | 5MHz | 64QAM | Full RB |
| AGE RATIO | 132022 to 132622 | 132022, 132322, 132622 | 10MHz | 64QAM | Full RB |
| | 132047 to 132597 | 132047, 132322, 132597 | 15MHz | 64QAM | Full RB |
| | 132072 to 132572 | 132072, 132322, 132572 | 20MHz | 64QAM | Full RB |
| | 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 |
| BAND EDGE | 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 |
| | 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 |
| CONDCUDETED | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | QPSK | 1 RB, 0 RB Offest |
| EMISSION | 18650 to 19150 | 18650, 18900, 19150 | 10MHz | QPSK | 1 RB, 0 RB Offest |
| LIVIIOOIOIV | 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 Output Power | +/- 1.15 dB |
| 99% Occupied Bandwidth | +/- 0.89% |
| Out of Band Emissions at Antenna Terminals and Band Edge | +/- 0.89 dB |
| Frequency Stability vs. Temperature | +/- 2.64 Hz |
| 3M Semi Anechoic Chamber / 30M~200M | +/- 4.12 dB |
| 3M Semi Anechoic Chamber / 200MHz ~ 1GHz | +/- 4.68 |
| 3M Semi Anechoic Chamber / 1GHz ~ 8GHz | +/- 5.18 |
| 3M Semi Anechoic Chamber / 8GHz ~ 18GHz | +/- 5.47 |
| 3M Semi Anechoic Chamber / 18GHz ~ 26GHz | +/- 3.81 |
| 3M Semi Anechoic Chamber / 26GHz ~ 40GHz | +/- 3.87 |

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. IThe conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.



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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.

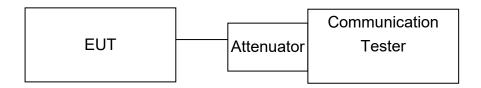
FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

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

FCC 90.542(a)(7) Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

6.2. Test Set-up

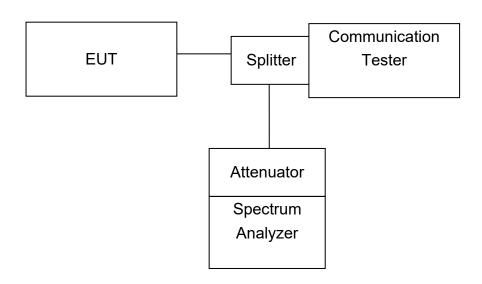


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For Band 30



Note: Measurement setup for testing on Antenna connector

6.3. Measurement Procedure

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

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

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.

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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.

6.4. Measurement Equipment Used

| Conducted Emission (measured at antenna port) Test Site | | | | | | | | |
|---|------------------|------------|--------------|------------|------------|--|--|--|
| EQUIPMENT TYPE | | | LAST CAL. | CAL DUE. | | | | |
| DC Block | PASTER- NACK | PE8210 | RF256 | 02/26/2019 | 02/25/2020 | | | |
| Spectrum Analyzer | Agilent | N9010A | MY53400256 | 11/21/2018 | 11/20/2019 | | | |
| DC Power Supply | Agilent | E3640A | MY53130054 | 09/03/2018 | 09/02/2019 | | | |
| TEMPERATURE | TEMPERA- TURE | HTC-1 | EC-HY-01 | 04/18/2019 | 04/17/2020 | | | |
| Splitter | Woken | DOM35LW1A2 | RF83 | 02/26/2019 | 02/25/2020 | | | |
| Attenuator | Marvelous | MVE2213-10 | RF80 | 02/26/2019 | 02/25/2020 | | | |
| Radio Communication Analyer | Anritsu | MT8820C | 6201465317 | 01/16/2019 | 01/15/2020 | | | |

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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 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) | СН | Conducted Avg. Power (dBm) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-------------|----------------|------|----------------------------------|--------------------------|--------------|---------------|----------------|----------------|
| WCDMA | 1852.4 | 9262 | 23.74 | -0.02 | 21.57 | 23.72 | 33.00 | -9.28 |
| | 1880.0 | 9400 | 23.88 | -0.02 | 21.71 | 23.86 | 33.00 | -9.14 |
| | 1907.6 | 9538 | 23.91 | -0.02 | 21.74 | 23.89 | 33.00 | -9.11 |
| HSDPA | 1852.4 | 9262 | 23.87 | -0.02 | 21.70 | 23.85 | 33.00 | -9.15 |
| | 1880.0 | 9400 | 24.05 | -0.02 | 21.88 | 24.03 | 33.00 | -8.97 |
| | 1907.6 | 9538 | 24.12 | -0.02 | 21.95 | 24.10 | 33.00 | -8.90 |
| HSUPA | 1852.4 | 9262 | 23.87 | -0.02 | 21.70 | 23.85 | 33.00 | -9.15 |
| | 1880.0 | 9400 | 24.05 | -0.02 | 21.88 | 24.03 | 33.00 | -8.97 |
| | 1907.6 | 9538 | 24.05 | -0.02 | 21.88 | 24.03 | 33.00 | -8.97 |

WCDMA/HSUPA/HSDPA Band IV Result:

| EUT Mode | Freq. (MHz) | СН | Conducted Avg. Power (dBm) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-------------|----------------|------|----------------------------------|--------------------------|--------------|---------------|----------------|----------------|
| WCDMA | 1712.4 | 1312 | 23.99 | -0.21 | 21.63 | 23.78 | 30.00 | -6.22 |
| | 1732.6 | 1413 | 23.95 | -0.21 | 21.59 | 23.74 | 30.00 | -6.26 |
| | 1752.6 | 1513 | 23.93 | -0.21 | 21.57 | 23.72 | 30.00 | -6.28 |
| HSDPA | 1712.4 | 1312 | 23.98 | -0.21 | 21.62 | 23.77 | 30.00 | -6.23 |
| | 1732.6 | 1413 | 24.06 | -0.21 | 21.70 | 23.85 | 30.00 | -6.15 |
| | 1752.6 | 1513 | 23.98 | -0.21 | 21.62 | 23.77 | 30.00 | -6.23 |
| HSUPA | 1712.4 | 1312 | 24.02 | -0.21 | 21.66 | 23.81 | 30.00 | -6.19 |
| | 1732.6 | 1413 | 24.00 | -0.21 | 21.64 | 23.79 | 30.00 | -6.21 |
| | 1752.6 | 1513 | 23.97 | -0.21 | 21.61 | 23.76 | 30.00 | -6.24 |

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WCDMA/HSUPA/HSDPA Band V Result:

| EUT Mode | Freq. (MHz) | СН | Conducted Avg. Power (dBm) | Antenna Gain (dBi) | ERP (dBm) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-------------|----------------|------|----------------------------------|--------------------------|--------------|---------------|----------------|----------------|
| | 826.4 | 4132 | 23.86 | -3.50 | 18.21 | 20.36 | 38.50 | -18.14 |
| WCDMA | 836.6 | 4183 | 23.95 | -3.50 | 18.30 | 20.45 | 38.50 | -18.05 |
| | 846.6 | 4233 | 23.83 | -3.50 | 18.18 | 20.33 | 38.50 | -18.17 |
| | 826.4 | 4132 | 23.85 | -3.50 | 18.20 | 20.35 | 38.50 | -18.15 |
| HSDPA | 836.6 | 4183 | 23.77 | -3.50 | 18.12 | 20.27 | 38.50 | -18.23 |
| | 846.6 | 4233 | 23.78 | -3.50 | 18.13 | 20.28 | 38.50 | -18.22 |
| | 826.4 | 4132 | 23.97 | -3.50 | 18.32 | 20.47 | 38.50 | -18.03 |
| HSUPA | 836.6 | 4183 | 23.90 | -3.50 | 18.25 | 20.40 | 38.50 | -18.10 |
| | 846.6 | 4233 | 23.86 | -3.50 | 18.21 | 20.36 | 38.50 | -18.14 |

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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 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. 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 | βς | βa | β _d (SF) | β_c/β_d | β _{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 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. 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 | βε | βa | β _d (SF) | βс/βа | βнѕ | βес | βed | β _{ed} (SF) | β _{ed} (Code s) | CM (dB) | MPR (dB) | AG Index | E-TFCI | RMC (Kbps |
|--------------|-------------------|-------------------|------------------------|-------------------|-------|-------------|--|-------------------------|--------------------------------|------------|-------------|-------------|--------|--------------|
| 1 | 11/15 (Note 3) | 15/15 (Note 3) | 64 | 11/15 (Note 3) | 22/15 | 209/22 5 | 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 | β _{ed} 1: 47/15 β _{ed} 2: 47/15 | 4 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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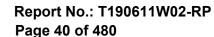
Results:

| Mode | Sub test | Avg. Power (dBm) Channel | | | | | | |
|----------|-------------|-----------------------------|---------|---------|--|--|--|--|
| | ισσι | 9262.00 | 9400.00 | 9538.00 | | | | |
| | 1 | 18.55 | 18.71 | 18.74 | | | | |
| HSDPA II | 2 | 17.59 | 18.75 | 17.66 | | | | |
| пэрга п | 3 | 17.03 | 17.73 | 17.07 | | | | |
| | 4 | 16.87 | 17.09 | 16.92 | | | | |

| Mode | Sub test | Avg. Power (dBm) Channel | | | | | | |
|----------|-------------|-----------------------------|---------|---------|--|--|--|--|
| | ισσι | 1312.00 | 1413.00 | 1513.00 | | | | |
| | 1 | 19.22 | 19.18 | 19.30 | | | | |
| HSDPA IV | 2 | 18.14 | 18.13 | 18.21 | | | | |
| HODEATV | 3 | 17.72 | 17.57 | 17.78 | | | | |
| | 4 | 17.51 | 17.30 | 17.41 | | | | |

| Mode | Sub test | Avg. Power (dBm) Channel | | | | | | |
|---------|-------------|-----------------------------|---------|---------|--|--|--|--|
| | ισσι | 4132.00 | 4183.00 | 4233.00 | | | | |
| | 1 | 23.32 | 23.28 | 23.35 | | | | |
| HSDPA V | 2 | 22.85 | 22.79 | 22.72 | | | | |
| HODEA V | 3 | 22.35 | 22.16 | 22.15 | | | | |
| | 4 | 21.98 | 22.00 | 21.72 | | | | |

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| Mode | Sub test | Avg. Power (dBm) Channel | | | | | | |
|----------|-------------|-----------------------------|---------|---------|--|--|--|--|
| | 1031 | 9262.00 | 9400.00 | 9538.00 | | | | |
| | 1 | 18.66 | 16.97 | 18.68 | | | | |
| | 2 | 17.11 | 18.77 | 17.17 | | | | |
| HSUPA II | 3 | 17.50 | 17.26 | 17.69 | | | | |
| | 4 | 16.95 | 17.71 | 17.11 | | | | |
| | 5 | 18.48 | 17.23 | 18.58 | | | | |

| Mode | Sub test | Avg. Power (dBm) Channel | | | | | | |
|----------|-------------|-----------------------------|---------|---------|--|--|--|--|
| | ισσι | 1312.00 | 1413.00 | 1513.00 | | | | |
| | 1 | 19.32 | 19.28 | 19.28 | | | | |
| | 2 | 18.25 | 18.07 | 18.25 | | | | |
| HSUPA IV | 3 | 17.68 | 17.57 | 17.82 | | | | |
| | 4 | 18.24 | 18.04 | 18.32 | | | | |
| | 5 | 19.21 | 19.26 | 19.27 | | | | |

| | Cul | Avg. Power (dBm) | | | | | | |
|---------|-------------|------------------|---------|---------|--|--|--|--|
| Mode | Sub test | | Channel | | | | | |
| | 1031 | 4132.00 | 4183.00 | 4233.00 | | | | |
| | 1 | 23.72 | 23.69 | 23.68 | | | | |
| | 2 | 22.86 | 22.80 | 22.74 | | | | |
| HSUPA V | 3 | 22.34 | 22.16 | 22.05 | | | | |
| | 4 | 22.82 | 22.84 | 22.72 | | | | |
| | 5 | 23.67 | 23.70 | 23.56 | | | | |

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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LTE Result:

Antonna gain (dDi)

| Antenna | gain (dBi) | -0.02 | | | | | | | |
|-------------|---------------|--------------------|-------------|------------|--------------|-------------------------------|--------------------------|------------------------|----------------|
| | | L | TE Band 2_U | plink fr | equency band | : 1850 to 1910 | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| | | 1850.7 | | 1 | 0 | 18.80 | 18.78 | 33 | -14.22 |
| | 18607 | | QPSK | 1 | 5 | 18.72 | 18.70 | 33 | -14.3 |
| | 10007 | | QI JK | 3 | 2 | 18.68 | 18.66 | 33 | -14.34 |
| | | | | 6 | 0 | 18.76 | 18.74 | 33 | -14.26 |
| | | | | 1 | 0 | 18.64 | 18.62 | 33 | -14.38 |
| | 18900 | 1880 | QPSK | 1 | 5 | 18.66 | 18.64 | 33 | -14.36 |
| | 10700 | 1000 | QFSK | 3 | 2 | 18.70 | 18.68 | 33 | -14.32 |
| | | | | 6 | 0 | 18.94 | 18.92 | 33 | -14.08 |
| | | | | 1 | 0 | 18.90 | 18.88 | 33 | -14.12 |
| | 19193 | 1909.3 | QPSK | 1 | 5 | 18.68 | 18.66 | 33 | -14.34 |
| | | 1707.3 | | 3 | 2 | 18.70 | 18.68 | 33 | -14.32 |
| | | | | 6 | 0 | 18.80 | 18.78 | 33 | -14.22 |
| | | 1850.7 | 16QAM | 1 | 0 | 18.86 | 18.84 | 33 | -14.16 |
| | | | | 1 | 5 | 18.92 | 18.90 | 33 | -14.1 |
| | 10007 | | | 3 | 2 | 18.94 | 18.92 | 33 | -14.08 |
| | | | | 6 | 0 | 18.82 | 18.80 | 33 | -14.2 |
| | | 1880 | 16QAM | 1 | 0 | 18.84 | 18.82 | 33 | -14.18 |
| 1.4 | 18900 | | | 1 | 5 | 18.88 | 18.86 | 33 | -14.14 |
| 1.4 | 10700 | | | 3 | 2 | 18.96 | 18.94 | 33 | -14.06 |
| | | | | 6 | 0 | 18.66 | 18.64 | 33 | -14.36 |
| | | | | 1 | 0 | 18.86 | 18.84 | 33 | -14.16 |
| | 19193 | 1909.3 | 16QAM | 1 | 5 | 18.80 | 18.78 | 33 | -14.22 |
| | 17173 | 1707.3 | TOQAIVI | 3 | 2 | 18.80 | 18.78 | 33 | -14.22 |
| | | | | 6 | 0 | 18.68 | 18.66 | 33 | -14.34 |
| | | | | 1 | 0 | 18.94 | 18.92 | 33 | -14.08 |
| | 18607 | 1850.7 | 64QAM | 1 | 5 | 18.66 | 18.64 | 33 | -14.36 |
| | 10007 | 1000.7 | 04QAIVI | 3 | 2 | 18.94 | 18.92 | 33 | -14.08 |
| | | | | 6 | 0 | 18.70 | 18.68 | 33 | -14.32 |
| | | | | 1 | 0 | 18.90 | 18.88 | 33 | -14.12 |
| | 10000 | 1880 | 64QAM | 1 | 5 | 18.90 | 18.88 | 33 | -14.12 |
| | 18900 | 1000 | 04QAIVI | 3 | 2 | 18.94 | 18.92 | 33 | -14.08 |
| | | | | 6 | 0 | 18.74 | 18.72 | 33 | -14.28 |
| | | | | 1 | 0 | 18.62 | 18.60 | 33 | -14.4 |
| | 19193 | 1909.3 | 64QAM | 1 | 5 | 18.68 | 18.66 | 33 | -14.34 |
| | 17173 | 1707.3 | 04QAIVI | 3 | 2 | 18.90 | 18.88 | 33 | -14.12 |
| | | | | 6 | 0 | 18.92 | 18.90 | 33 | -14.1 |

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Antenna gain (dRi)

| Antenna (| gain (dBi) | -0.02 | TE Dand 2 II | nlink fr | oguoney hand | · 1050 to 1010 | MUz | | |
|-----------|------------------------------|-----------|--------------|----------|--------------|-----------------------------|---------|--------|--------|
| | | L | TE DATIU Z_U | | | : 1850 to 1910 Conducted | EIRP | EIRP | |
| BW | UL | Frequency | Modulation | RB | RB | Average | Average | Limit | Margin |
| (MHz) | Channel | (MHz) | Modulation | Size | Offset | (dBm) | (dBm) | (dBm) | (dB) |
| | | | | 1 | 0 | 18.70 | 18.68 | 33 | -14.32 |
| | | 1851.5 | QPSK | 1 | 14 | 18.76 | 18.74 | 33 | -14.26 |
| | 18615 | | | 8 | 4 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 15 | 0 | 18.68 | 18.66 | 33 | -14.34 |
| | | | | 1 | 0 | 18.92 | 18.90 | 33 | -14.1 |
| | | | | 1 | 14 | 18.64 | 18.62 | 33 | -14.38 |
| | 18900 1880 | QPSK | 8 | 4 | 18.94 | 18.92 | 33 | -14.08 | |
| | | | | 15 | 0 | 18.64 | 18.62 | 33 | -14.38 |
| | | | | 1 | 0 | 18.84 | 18.82 | 33 | -14.18 |
| | | | | 1 | 14 | 18.84 | 18.82 | 33 | -14.18 |
| | 19185 1908.5 18615 1851.5 | QPSK | 8 | 4 | 18.94 | 18.92 | 33 | -14.08 | |
| | | | | 15 | 0 | 18.70 | 18.68 | 33 | -14.32 |
| | | | 16QAM | 1 | 0 | 18.76 | 18.74 | 33 | -14.26 |
| | | 1851.5 | | 1 | 14 | 18.72 | 18.70 | 33 | -14.3 |
| | | | | 8 | 4 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 15 | 0 | 18.70 | 18.68 | 33 | -14.32 |
| | | | 16QAM | 1 | 0 | 18.72 | 18.70 | 33 | -14.3 |
| | | 1880 | | 1 | 14 | 18.74 | 18.72 | 33 | -14.28 |
| 3 | 18900 | | | 8 | 4 | 18.78 | 18.76 | 33 | -14.24 |
| | | | | 15 | 0 | 18.72 | 18.70 | 33 | -14.3 |
| | | | | 1 | 0 | 18.90 | 18.88 | 33 | -14.12 |
| | | | | 1 | 14 | 18.70 | 18.68 | 33 | -14.32 |
| | 19185 | 1908.5 | 16QAM | 8 | 4 | 18.92 | 18.90 | 33 | -14.1 |
| | | | | 15 | 0 | 18.68 | 18.66 | 33 | -14.34 |
| | | | | 1 | 0 | 18.82 | 18.80 | 33 | -14.2 |
| | 10/15 | 10515 | | 1 | 14 | 18.92 | 18.90 | 33 | -14.1 |
| | 18615 | 1851.5 | 64QAM | 8 | 4 | 18.66 | 18.64 | 33 | -14.36 |
| | | | | 15 | 0 | 18.64 | 18.62 | 33 | -14.38 |
| | | | | 1 | 0 | 18.66 | 18.64 | 33 | -14.36 |
| | | | | 1 | 14 | 18.72 | 18.70 | 33 | -14.3 |
| | 18900 | 1880 | 64QAM | 8 | 4 | 18.77 | 18.75 | 33 | -14.25 |
| | | | | 15 | 0 | 18.82 | 18.80 | 33 | -14.2 |
| | | | | 1 | 0 | 18.84 | 18.82 | 33 | -14.18 |
| | 4015- | 4000 - | | 1 | 14 | 18.76 | 18.74 | 33 | -14.26 |
| | 19185 | 1908.5 | 64QAM | 8 | 4 | 18.86 | 18.84 | 33 | -14.16 |
| | | | | 15 | 0 | 18.68 | 18.66 | 33 | -14.34 |

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| Antenna | gain (dBi) | -0.02 | TF Rand 2 II | nlink fr | equency hand | : 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) |
| | | 1052.5 | | 1 | 0 | 18.84 | 18.82 | 33 | -14.18 |
| | 10/05 | | QPSK | 1 | 24 | 18.72 | 18.70 | 33 | -14.3 |
| | 18625 | 1852.5 | | 12 | 6 | 18.68 | 18.66 | 33 | -14.34 |
| | | | | 25 | 0 | 18.74 | 18.72 | 33 | -14.28 |
| | | | | 1 | 0 | 18.68 | 18.66 | 33 | -14.34 |
| | 18900 1880 | 1000 | QPSK | 1 | 24 | 18.66 | 18.64 | 33 | -14.36 |
| | | QPSK | 12 | 6 | 18.96 | 18.94 | 33 | -14.06 | |
| | | | | 25 | 0 | 18.62 | 18.60 | 33 | -14.4 |
| | | | | 1 | 0 | 18.84 | 18.82 | 33 | -14.18 |
| | 19175 1907.5 18625 1852.5 | 1007 5 | QPSK | 1 | 24 | 18.70 | 18.68 | 33 | -14.32 |
| | | 1907.3 | QPSK | 12 | 6 | 18.96 | 18.94 | 33 | -14.06 |
| | | | | 25 | 0 | 18.62 | 18.60 | 33 | -14.4 |
| | | | 16QAM | 1 | 0 | 18.92 | 18.90 | 33 | -14.1 |
| | | 1852.5 | | 1 | 24 | 18.78 | 18.76 | 33 | -14.24 |
| | | | | 12 | 6 | 18.94 | 18.92 | 33 | -14.08 |
| | | | | 25 | 0 | 18.90 | 18.88 | 33 | -14.12 |
| | | 1880 | 16QAM | 1 | 0 | 18.84 | 18.82 | 33 | -14.18 |
| 5 | 18900 | | | 1 | 24 | 18.62 | 18.60 | 33 | -14.4 |
| 3 | 10900 | | | 12 | 6 | 18.76 | 18.74 | 33 | -14.26 |
| | | | | 25 | 0 | 18.86 | 18.84 | 33 | -14.16 |
| | | | | 1 | 0 | 18.86 | 18.84 | 33 | -14.16 |
| | 19175 | 1907.5 | 16QAM | 1 | 24 | 18.96 | 18.94 | 33 | -14.06 |
| | 19173 | 1907.5 | TOQAW | 12 | 6 | 18.70 | 18.68 | 33 | -14.32 |
| | | | | 25 | 0 | 18.91 | 18.89 | 33 | -14.11 |
| | | | | 1 | 0 | 18.92 | 18.90 | 33 | -14.1 |
| | 18625 | 1852.5 | 64QAM | 1 | 24 | 18.90 | 18.88 | 33 | -14.12 |
| | 10023 | 1002.0 | 04QAIVI | 12 | 6 | 18.90 | 18.88 | 33 | -14.12 |
| | | | | 25 | 0 | 18.86 | 18.84 | 33 | -14.16 |
| | | | | 1 | 0 | 18.88 | 18.86 | 33 | -14.14 |
| | 10000 | 1000 | 4 1 O A B 1 | 1 | 24 | 18.88 | 18.86 | 33 | -14.14 |
| | 18900 | 1880 | 64QAM | 12 | 6 | 18.92 | 18.90 | 33 | -14.1 |
| | | | | 25 | 0 | 18.64 | 18.62 | 33 | -14.38 |
| | | | | 1 | 0 | 18.76 | 18.74 | 33 | -14.26 |
| | 10175 | 1007 E | 610011 | 1 | 24 | 18.78 | 18.76 | 33 | -14.24 |
| | 19175 | 1907.5 | 64QAM | 12 | 6 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 25 | 0 | 18.91 | 18.89 | 33 | -14.11 |

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Antenna gain (dRi)

-n n2

| Antenna | gain (dBi) | -0.02 L | TE Band 2 U | plink fr | eguency band | l : 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 | 0 | 18.70 | 18.68 | 33 | -14.32 |
| | 10/50 | 1055 | QPSK | 1 | 49 | 18.86 | 18.84 | 33 | -14.16 |
| | 18650 | 1855 | QPSK | 25 | 12 | 18.72 | 18.70 | 33 | -14.3 |
| | | | | 50 | 0 | 18.64 | 18.62 | 33 | -14.38 |
| | | | | 1 | 0 | 18.90 | 18.88 | 33 | -14.12 |
| | 18900 | 1880 | QPSK | 1 | 49 | 18.84 | 18.82 | 33 | -14.18 |
| | 10700 | 1000 | QF3K | 25 | 12 | 18.92 | 18.90 | 33 | -14.1 |
| | | | | 50 | 0 | 18.96 | 18.94 | 33 | -14.06 |
| | | | | 1 | 0 | 18.66 | 18.64 | 33 | -14.36 |
| | 19150 | 1905 | QPSK | 1 | 49 | 18.80 | 18.78 | 33 | -14.22 |
| | 19150 | 1700 | QF3K | 25 | 12 | 18.92 | 18.90 | 33 | -14.1 |
| | | | | 50 | 0 | 18.74 | 18.72 | 33 | -14.28 |
| | | | | 1 | 0 | 18.88 | 18.86 | 33 | -14.14 |
| | 18650 | 1855 | 16QAM | 1 | 49 | 18.66 | 18.64 | 33 | -14.36 |
| | 10000 | 1000 | TOQAW | 25 | 12 | 18.78 | 18.76 | 33 | -14.24 |
| | | | | 50 | 0 | 18.62 | 18.60 | 33 | -14.4 |
| | | | 16QAM | 1 | 0 | 18.66 | 18.64 | 33 | -14.36 |
| 10 | 18900 | 1880 | | 1 | 49 | 18.82 | 18.80 | 33 | -14.2 |
| 10 | 10700 | 1000 | TOQAW | 25 | 12 | 18.74 | 18.72 | 33 | -14.28 |
| | | | | 50 | 0 | 18.90 | 18.88 | 33 | -14.12 |
| | | | | 1 | 0 | 18.76 | 18.74 | 33 | -14.26 |
| | 19150 | 1905 | 16QAM | 1 | 49 | 18.94 | 18.92 | 33 | -14.08 |
| | 17130 | 1703 | TOQAW | 25 | 12 | 18.82 | 18.80 | 33 | -14.2 |
| | | | | 50 | 0 | 18.82 | 18.80 | 33 | -14.2 |
| | | | | 1 | 0 | 18.96 | 18.94 | 33 | -14.06 |
| | 18650 | 1855 | 64QAM | 1 | 49 | 18.74 | 18.72 | 33 | -14.28 |
| | 10000 | 1000 | 04QAIVI | 25 | 12 | 18.72 | 18.70 | 33 | -14.3 |
| | | | | 50 | 0 | 18.86 | 18.84 | 33 | -14.16 |
| | | | | 1 | 0 | 18.86 | 18.84 | 33 | -14.16 |
| | 18900 | 1880 | 64QAM | 1 | 49 | 18.66 | 18.64 | 33 | -14.36 |
| | 10700 | 1000 | UHUHIVI | 25 | 12 | 18.74 | 18.72 | 33 | -14.28 |
| | | | | 50 | 0 | 18.84 | 18.82 | 33 | -14.18 |
| | | | | 1 | 0 | 18.92 | 18.90 | 33 | -14.1 |
| | 19150 | 1905 | 64QAM | 1 | 49 | 18.70 | 18.68 | 33 | -14.32 |
| | 17100 | 1700 | U4QAIVI | 25 | 12 | 18.62 | 18.60 | 33 | -14.4 |
| | | | | 50 | 0 | 18.74 | 18.72 | 33 | -14.28 |

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Antenna gain (dBi)

-0.02

| Channel Chan | Antenna | gairi (ubi) | -0.02 | TF Band 2 U | plink fr | equency band | : 1850 to 1910 | MH7 | | |
|--|---------|-------------|-----------|-------------|----------|--------------|----------------------|-----------------|-------|----------------|
| 18675 1857.5 QPSK | | | Frequency | | RB | RB | Conducted Average | EIRP Average | Limit | Margin (dB) |
| 18675 1857.5 QPSK 36 18 18.76 18.74 33 -14 18900 1880 QPSK 1 74 18.84 18.82 33 -14 19125 1902.5 QPSK 1 74 18.84 18.82 33 -14 19125 1902.5 QPSK 1 74 18.78 18.76 33 -14 18675 1857.5 16QAM 1 74 18.89 18.80 33 -14 18900 1880 187.5 16QAM 1 1 74 18.89 18.80 33 -14 19125 1902.5 16QAM 1 1 74 18.89 18.76 33 -14 18675 1857.5 16QAM 1 1 74 18.89 18.80 33 -14 19125 1902.5 16QAM 1 1 74 18.89 18.80 33 -14 10 1880 18.78 33 -14 11 0 18.88 18.86 33 -14 12 75 0 18.85 18.83 33 -14 13 0 18.80 18.78 33 -14 14 0 18.80 18.78 33 -14 15 18900 1880 18.78 33 -14 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | 1 | 0 | 18.68 | 18.66 | 33 | -14.34 |
| 18900 1880 OPSK | | 10475 | 1057 5 | ODCK | 1 | 74 | 18.76 | 18.74 | 33 | -14.26 |
| 18900 1880 PSK | | 10073 | 1007.0 | QPSK | 36 | 18 | 18.76 | 18.74 | 33 | -14.26 |
| 18900 1880 OPSK | | | | | 75 | 0 | 18.80 | 18.78 | 33 | -14.22 |
| 18900 1880 QPSK 36 18 18.66 18.64 33 -14 19125 1902.5 QPSK 1 0 18.73 18.71 33 -14 19125 1902.5 QPSK 1 0 18.74 18.78 18.76 33 -14 18675 1857.5 16QAM 1 0 18.88 18.86 33 -14 18675 1880 1880 18.86 33 -14 18675 1880 1880 18.86 33 -14 18675 1880 1880 18.86 33 -14 18675 1880 1880 18.86 33 -14 18675 1880 1880 18.86 33 -14 18675 1880 1880 18.86 33 -14 18676 1880 18.85 18.83 33 -14 18676 1880 18.86 18.66 33 -14 18676 1880 18.84 18.82 33 -14 18676 1880 18.84 18.82 33 -14 18675 1860 33 -14 18676 18 18.84 18.82 33 -14 18677 0 18.82 18.80 33 -14 18678 1866 33 -14 18678 1866 33 -14 18678 1866 33 -14 18678 1866 33 -14 18678 1866 33 -14 18678 1866 33 -14 18678 1866 33 -14 18679 1888 18.66 33 -14 18679 1888 33 -14 18679 1888 33 -14 18679 1888 33 -14 | | | | | 1 | 0 | 18.90 | 18.88 | 33 | -14.12 |
| 19125 | | 10000 | 1000 | ODCK | 1 | 74 | 18.84 | 18.82 | 33 | -14.18 |
| 19125 | | 10900 | 1000 | UPSK | 36 | 18 | 18.66 | 18.64 | 33 | -14.36 |
| 19125 | | | | | 75 | 0 | 18.93 | 18.91 | 33 | -14.09 |
| 19125 1902.5 OPSK 36 18 18.66 18.64 33 -14 18675 1857.5 16QAM 18.72 33 -14 18675 18900 1880 16QAM 1 1 74 18.82 18.80 33 -14 19125 1902.5 16QAM 1 1 74 18.82 18.80 33 -14 10 18.88 18.86 33 -14 10 18.89 18.74 18.72 33 -14 11 0 18.85 18.83 33 -14 12 1 0 18.80 18.78 33 -14 13 1 0 18.80 18.78 33 -14 14 1 0 18.82 18.80 33 -14 15 19125 1902.5 16QAM 1 1 74 18.82 18.80 33 -14 17 1 0 18.62 18.60 33 -14 18 18 18.84 18.82 33 -14 18 18 18 18.84 18.82 33 -14 18 18 18 18 18 18 18 18 18 18 18 18 18 1 | | | | | 1 | 0 | 18.73 | 18.71 | 33 | -14.29 |
| 18675 1867.5 16QAM 1875 16QAM 1875 1880 1880 33 -14 18675 1887.5 16QAM 1887 18.66 18.64 33 -14 18675 1887.5 16QAM 18.74 18.72 33 -14 1 | | 10125 | 1002 E | ODCK | 1 | 74 | 18.78 | 18.76 | 33 | -14.24 |
| 18675 1857.5 16OAM 1 0 18.88 18.86 33 -14 1 74 18.94 18.92 33 -14 36 18 18.74 18.72 33 -14 75 0 18.85 18.83 33 -14 1 0 18.80 18.78 33 -14 1 0 18.80 18.78 33 -14 1 0 18.80 18.78 33 -14 36 18 18.64 18.62 33 -14 36 18 18.64 18.62 33 -14 75 0 18.84 18.82 33 -14 1 0 18.62 18.60 33 -14 36 18 18.84 18.82 33 -14 36 18 18.84 18.82 33 -14 36 18 18.84 18.82 33 -14 36 18 18.84 18.82 33 -14 36 18 18.84 18.82 33 -14 375 0 18.82 18.80 33 -14 36 18 18.84 18.82 33 -14 375 0 18.82 18.80 33 -14 375 0 18.82 18.80 33 -14 375 0 18.82 18.80 33 -14 375 0 18.82 18.80 33 -14 375 0 18.82 18.80 33 -14 375 0 18.82 18.80 33 -14 375 0 18.82 18.80 33 -14 375 0 18.84 18.82 33 -14 | | 19123 | 1902.5 | UPSK | 36 | 18 | 18.66 | 18.64 | 33 | -14.36 |
| 18675 1857.5 16QAM 1 74 18.94 18.92 33 -14 36 18 18.74 18.72 33 -14 75 0 18.85 18.83 33 -14 18900 1880 16QAM 1 74 18.82 18.80 33 -14 36 18 18.64 18.62 33 -14 75 0 18.84 18.82 33 -14 75 0 18.84 18.82 33 -14 75 0 18.84 18.82 33 -14 36 18 18.64 18.62 33 -14 36 18 18.84 18.82 33 -14 36 18 18.84 18.82 33 -14 36 18 18.84 18.82 33 -14 36 18 18.84 18.82 33 -14 36 18 18.84 18.82 33 -14 36 18 18.89 18.66 33 -14 36 18 18.90 18.88 33 -14 36 18 18.90 18.88 33 -14 | | | | | 75 | 0 | 18.74 | 18.72 | 33 | -14.28 |
| 18675 1857.5 16QAM 36 18 18.74 18.72 33 -14 75 0 18.85 18.83 33 -14 18900 1880 16QAM 1 0 18.80 18.78 33 -14 1 0 18.80 18.78 33 -14 36 18 18.64 18.82 18.80 33 -14 36 18 18.64 18.62 33 -14 75 0 18.84 18.82 33 -14 19125 1902.5 16QAM 1 0 18.62 18.60 33 -14 36 18 18.84 18.82 33 -14 36 18 18.84 18.82 33 -14 375 0 18.82 18.80 33 -14 375 0 18.82 18.80 33 -14 375 0 18.82 18.80 33 -14 375 0 18.82 18.80 33 -14 375 0 18.82 18.80 33 -14 375 0 18.82 18.80 33 -14 375 0 18.88 18.76 33 -14 375 0 18.84 18.82 33 -14 | | | | | 1 | 0 | 18.88 | 18.86 | 33 | -14.14 |
| 15 18900 1880 16QAM 16QAM 18.74 18.72 33 -14 18900 1880 16QAM 1 0 18.85 18.83 33 -14 1 0 18.80 18.78 33 -14 36 18 18.64 18.62 33 -14 36 18 18.64 18.62 33 -14 75 0 18.84 18.82 33 -14 1 0 18.62 18.60 33 -14 36 18 18.84 18.82 33 -14 36 18 18.84 18.82 33 -14 375 0 18.82 18.80 33 -14 375 0 18.82 18.80 33 -14 375 0 18.82 18.80 33 -14 375 0 18.82 18.80 33 -14 375 0 18.82 18.80 33 -14 375 0 18.82 18.80 33 -14 375 0 18.88 18.76 33 -14 375 0 18.84 18.82 33 -14 | | 10475 | 10E7 E | 14000 | 1 | 74 | 18.94 | 18.92 | 33 | -14.08 |
| 15 18900 1880 16QAM 16QAM 1880 18.78 33 -14 18.82 18.80 33 -14 18.64 18.62 33 -14 18.64 18.62 33 -14 18.64 18.62 33 -14 18.65 18.66 33 -14 18.66 18.66 33 -14 18.68 18.68 33 -14 18.68 18.68 33 -14 18.68 18.68 33 -14 18.68 18.68 33 -14 18.68 18.68 33 -14 18.68 18.68 33 -14 18.68 18.68 33 -14 18.68 18.68 33 -14 18.68 18.68 33 -14 18.68 18.68 33 -14 18.68 3 | | 18675 | 1837.3 | TOQAIVI | 36 | 18 | 18.74 | 18.72 | 33 | -14.28 |
| 15 18900 1880 16QAM 1 74 18.82 18.80 33 -14 36 18 18.64 18.62 33 -14 75 0 18.84 18.82 33 -14 19125 1902.5 16QAM 1 74 18.68 18.60 33 -14 36 18 18.84 18.82 33 -14 36 18 18.84 18.82 33 -14 36 18 18.84 18.82 33 -14 75 0 18.82 18.80 33 -14 75 0 18.68 18.66 33 -14 75 0 18.68 18.66 33 -14 75 0 18.68 18.66 33 -14 75 0 18.68 18.66 33 -14 75 0 18.68 18.76 33 -14 75 0 18.84 18.82 33 -14 | | | | | 75 | 0 | 18.85 | 18.83 | 33 | -14.17 |
| 15 18900 1880 16QAM 36 18 18.64 18.62 33 -14 75 0 18.84 18.82 33 -14 19125 1902.5 16QAM 1 1 0 18.62 18.60 33 -14 1 74 18.68 18.66 33 -14 75 0 18.82 18.80 33 -14 75 0 18.82 18.80 33 -14 1 0 18.68 18.66 33 -14 75 0 18.82 18.80 33 -14 1 74 18.78 18.76 33 -14 36 18 18.90 18.88 33 -14 | | | | 14000 | 1 | 0 | 18.80 | 18.78 | 33 | -14.22 |
| 19125 1902.5 16QAM 18.62 18.64 18.62 33 -14 19125 1902.5 16QAM 18.62 18.60 33 -14 1 0 18.62 18.60 33 -14 1 74 18.68 18.66 33 -14 75 0 18.82 18.80 33 -14 75 0 18.68 18.66 33 -14 1 0 18.68 18.66 33 -14 75 0 18.68 18.66 33 -14 1 74 18.78 18.76 33 -14 36 18 18.90 18.88 33 -14 75 0 18.84 18.82 33 -14 | 15 | 10000 | 1000 | | 1 | 74 | 18.82 | 18.80 | 33 | -14.2 |
| 19125 | 15 | 10900 | 1000 | TOQAW | 36 | 18 | 18.64 | 18.62 | 33 | -14.38 |
| 19125 1902.5 16QAM 1 74 18.68 18.66 33 -14 36 18 18.84 18.82 33 -14 75 0 18.82 18.80 33 -14 18675 1857.5 64QAM 1 74 18.78 18.76 33 -14 36 18 18.90 18.88 33 -14 75 0 18.84 18.82 33 -14 | | | | | 75 | 0 | 18.84 | 18.82 | 33 | -14.18 |
| 19125 1902.5 16QAM 36 18 18.84 18.82 33 -14 75 0 18.82 18.80 33 -14 18675 1857.5 64QAM 1 74 18.78 18.76 33 -14 36 18 18.90 18.88 33 -14 75 0 18.84 18.82 33 -14 | | | | | 1 | 0 | 18.62 | 18.60 | 33 | -14.4 |
| 18675 1857.5 64QAM 36 18 18.84 18.82 33 -14 18675 0 18.82 18.80 33 -14 1 0 18.68 18.66 33 -14 1 74 18.78 18.76 33 -14 36 18 18.90 18.88 33 -14 75 0 18.84 18.82 33 -14 | | 10125 | 1002 E | 14000 | 1 | 74 | 18.68 | 18.66 | 33 | -14.34 |
| 18675 1857.5 64QAM 1 0 18.68 18.66 33 -14 1 74 18.78 18.76 33 -14 36 18 18.90 18.88 33 -14 75 0 18.84 18.82 33 -14 | | 19123 | 1902.3 | TOQAW | 36 | 18 | 18.84 | 18.82 | 33 | -14.18 |
| 18675 1857.5 64QAM 1 74 18.78 18.76 33 -14 36 18 18.90 18.88 33 -14 75 0 18.84 18.82 33 -14 | | | | | 75 | 0 | 18.82 | 18.80 | 33 | -14.2 |
| 18675 1857.5 64QAM 36 18 18.90 18.88 33 -14 75 0 18.84 18.82 33 -14 | | | | | 1 | 0 | 18.68 | 18.66 | 33 | -14.34 |
| 36 18 18.90 18.88 33 -14 75 0 18.84 18.82 33 -14 | | 10475 | 10E7 E | 4.40ANA | 1 | 74 | 18.78 | 18.76 | 33 | -14.24 |
| | | 10073 | 1637.3 | 04QAIVI | 36 | 18 | 18.90 | 18.88 | 33 | -14.12 |
| | | | | | 75 | 0 | 18.84 | 18.82 | 33 | -14.18 |
| 1 0 18.76 18.74 33 -14 | | | | | 1 | 0 | 18.76 | 18.74 | 33 | -14.26 |
| 10000 1000 (400M 1 74 18.72 18.70 33 -14 | | 10000 | 1000 | (1 O A N 1 | 1 | 74 | 18.72 | 18.70 | 33 | -14.3 |
| 18900 1880 64QAM 36 18 18.64 18.62 33 -14 | | 18400 | ΙδάΩ | 04UAIVI | 36 | 18 | 18.64 | 18.62 | 33 | -14.38 |
| 75 0 18.78 18.76 33 -14 | | | | | 75 | 0 | 18.78 | 18.76 | 33 | -14.24 |
| 1 0 18.67 18.65 33 -14 | | | | | 1 | 0 | 18.67 | 18.65 | 33 | -14.35 |
| 1013E 1003 E 440AM 1 74 18.80 18.78 33 -14 | | 10105 | 1002 5 | 6 A O A B A | 1 | 74 | 18.80 | 18.78 | 33 | -14.22 |
| 19125 1902.5 64QAM 7 74 18.84 18.82 33 -14 | | 19125 | 1902.5 | 04UAIVI | 36 | 18 | 18.84 | 18.82 | 33 | -14.18 |
| 75 0 18.90 18.88 33 -14 | | | | | 75 | 0 | 18.90 | 18.88 | 33 | -14.12 |

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Antonna gain (dRi)

| Antenna | gain (dBi) | -0.02 | TE D | LI'LL C | | 40501. 4040 | B 41 1 | | |
|-------------|---------------|--------------------|-------------|------------|--------------|-------------------------------|--------------------------|------------------------|----------------|
| | | | IE Band 2_U | piink tr | equency band | : 1850 to 1910 | | FIDD | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| | | | | 1 | 0 | 18.99 | 18.97 | 33 | -14.03 |
| | 10700 | 10/0 | ODCK | 1 | 99 | 18.82 | 18.80 | 33 | -14.2 |
| | 18700 | 1860 | QPSK | 50 | 25 | 18.97 | 18.95 | 33 | -14.05 |
| | | | | 100 | 0 | 18.85 | 18.83 | 33 | -14.17 |
| | | | | 1 | 0 | 18.88 | 18.86 | 33 | -14.14 |
| | 10000 | 1000 | ODCK | 1 | 99 | 18.84 | 18.82 | 33 | -14.18 |
| | 18900 | 1880 | QPSK | 50 | 25 | 18.84 | 18.82 | 33 | -14.18 |
| | | | | 100 | 0 | 18.81 | 18.79 | 33 | -14.21 |
| | | | | 1 | 0 | 18.92 | 18.90 | 33 | -14.1 |
| | 10100 | 1000 | ODCK | 1 | 99 | 18.91 | 18.89 | 33 | -14.11 |
| | 19100 | 1900 | QPSK | 50 | 25 | 18.84 | 18.82 | 33 | -14.18 |
| | | | | 100 | 0 | 18.76 | 18.74 | 33 | -14.26 |
| | | | | 1 | 0 | 18.64 | 18.62 | 33 | -14.38 |
| | 10700 | 10/0 | 1/0414 | 1 | 99 | 18.93 | 18.91 | 33 | -14.09 |
| | 18700 | 1860 | 16QAM | 50 | 25 | 18.62 | 18.60 | 33 | -14.4 |
| | | | | 100 | 0 | 18.90 | 18.88 | 33 | -14.12 |
| | | 1880 | 16QAM | 1 | 0 | 18.94 | 18.92 | 33 | -14.08 |
| 20 | 10000 | | | 1 | 99 | 18.92 | 18.90 | 33 | -14.1 |
| 20 | 18900 | 1880 | ToQAIVI | 50 | 25 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 100 | 0 | 18.84 | 18.82 | 33 | -14.18 |
| | | | | 1 | 0 | 18.64 | 18.62 | 33 | -14.38 |
| | 10100 | 1000 | 1/0414 | 1 | 99 | 18.74 | 18.72 | 33 | -14.28 |
| | 19100 | 1900 | 16QAM | 50 | 25 | 18.64 | 18.62 | 33 | -14.38 |
| | | | | 100 | 0 | 18.92 | 18.90 | 33 | -14.1 |
| | | | | 1 | 0 | 18.92 | 18.90 | 33 | -14.1 |
| | 10700 | 10/0 | / A 🔾 A N A | 1 | 99 | 18.64 | 18.62 | 33 | -14.38 |
| | 18700 | 1860 | 64QAM | 50 | 25 | 18.68 | 18.66 | 33 | -14.34 |
| | | | | 100 | 0 | 18.74 | 18.72 | 33 | -14.28 |
| | | | | 1 | 0 | 18.64 | 18.62 | 33 | -14.38 |
| | 10000 | 1000 | 4 A O A B A | 1 | 99 | 18.88 | 18.86 | 33 | -14.14 |
| | 18900 | 1880 | 64QAM | 50 | 25 | 18.68 | 18.66 | 33 | -14.34 |
| | | | | 100 | 0 | 18.96 | 18.94 | 33 | -14.06 |
| | | | | 1 | 0 | 18.91 | 18.89 | 33 | -14.11 |
| | 10100 | 1000 | (A O A A A | 1 | 99 | 18.94 | 18.92 | 33 | -14.08 |
| | 19100 | 1900 | 64QAM | 50 | 25 | 18.83 | 18.81 | 33 | -14.19 |
| | | | | 100 | 0 | 18.78 | 18.76 | 33 | -14.24 |

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Antenna gain (dBi) Λ 21

| AIIICIIIId | gain (dBi) | -0.21 L | TE Band 4_U | lplink 1 | frequenc | cy 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 | 0 | 19.41 | 19.20 | 30 | -10.8 |
| | 19957 | 1710.7 | QPSK | 1 | 5 | 19.29 | 19.08 | 30 | -10.92 |
| | 19957 | 1710.7 | QP3K | 3 | 2 | 19.43 | 19.22 | 30 | -10.78 |
| | | | | 6 | 0 | 19.35 | 19.14 | 30 | -10.86 |
| | | | | 1 | 0 | 19.43 | 19.22 | 30 | -10.78 |
| | 20175 | 1732.5 | QPSK | 1 | 5 | 19.27 | 19.06 | 30 | -10.94 |
| | 20173 | 1732.3 | UPSK | 3 | 2 | 19.36 | 19.15 | 30 | -10.85 |
| | | | | 6 | 0 | 19.39 | 19.18 | 30 | -10.82 |
| | | | | 1 | 0 | 19.40 | 19.19 | 30 | -10.81 |
| | 20393 | 1754.3 | QPSK | 1 | 5 | 19.45 | 19.24 | 30 | -10.76 |
| | 20393 | 1/34.3 | UPSK | 3 | 2 | 19.36 | 19.15 | 30 | -10.85 |
| | | | | 6 | 0 | 19.46 | 19.25 | 30 | -10.75 |
| | | | | 1 | 0 | 19.44 | 19.23 | 30 | -10.77 |
| | 10057 | 1710.7 | 16QAM | 1 | 5 | 19.31 | 19.10 | 30 | -10.9 |
| | 19957 | 1710.7 | TOQAWI | 3 | 2 | 19.35 | 19.14 | 30 | -10.86 |
| | | | | 6 | 0 | 19.38 | 19.17 | 30 | -10.83 |
| | | | 16QAM | 1 | 0 | 19.37 | 19.16 | 30 | -10.84 |
| 1 / | 20175 | 1722 E | | 1 | 5 | 19.43 | 19.22 | 30 | -10.78 |
| 1.4 | 20175 | 1732.5 | | 3 | 2 | 19.42 | 19.21 | 30 | -10.79 |
| | | | | 6 | 0 | 19.28 | 19.07 | 30 | -10.93 |
| | | | | 1 | 0 | 19.36 | 19.15 | 30 | -10.85 |
| | 20202 | 17540 | 1/0414 | 1 | 5 | 19.33 | 19.12 | 30 | -10.88 |
| | 20393 | 1754.3 | 16QAM | 3 | 2 | 19.30 | 19.09 | 30 | -10.91 |
| | | | | 6 | 0 | 19.32 | 19.11 | 30 | -10.89 |
| | | | | 1 | 0 | 19.38 | 19.17 | 30 | -10.83 |
| | 10057 | 1710 7 | / 40 A M | 1 | 5 | 19.41 | 19.20 | 30 | -10.8 |
| | 19957 | 1710.7 | 64QAM | 3 | 2 | 19.29 | 19.08 | 30 | -10.92 |
| | | | | 6 | 0 | 19.46 | 19.25 | 30 | -10.75 |
| | | | | 1 | 0 | 19.36 | 19.15 | 30 | -10.85 |
| | 20175 | 4700 F | (40004 | 1 | 5 | 19.32 | 19.11 | 30 | -10.89 |
| | 20175 | 1732.5 | 64QAM | 3 | 2 | 19.38 | 19.17 | 30 | -10.83 |
| | | | | 6 | 0 | 19.27 | 19.06 | 30 | -10.94 |
| | | | | 1 | 0 | 19.31 | 19.10 | 30 | -10.9 |
| | 20202 | 17540 | / 40 ^ ^ ^ | 1 | 5 | 19.27 | 19.06 | 30 | -10.94 |
| | 20393 | 1754.3 | 64QAM | 3 | 2 | 19.42 | 19.21 | 30 | -10.79 |
| | | | | 6 | 0 | 19.36 | 19.15 | 30 | -10.85 |

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Antonna gain (dRi) n 21

| Antenna | gain (dBi) | -0.21 | TF Band 4 U | lplink f | freguenc | cy 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 | 0 | 18.69 | 18.48 | 30 | -11.52 |
| | 19965 | 1711.5 | QPSK | 1 | 14 | 18.71 | 18.50 | 30 | -11.5 |
| | 19903 | 1711.3 | QPSK | 8 | 4 | 18.43 | 18.22 | 30 | -11.78 |
| | | | | 15 | 0 | 18.73 | 18.52 | 30 | -11.48 |
| | | | | 1 | 0 | 18.89 | 18.68 | 30 | -11.32 |
| | 20175 | 1732.5 | QPSK | 1 | 14 | 18.80 | 18.59 | 30 | -11.41 |
| | 20173 | 1732.3 | QI 3K | 8 | 4 | 18.34 | 18.13 | 30 | -11.87 |
| | | | | 15 | 0 | 18.70 | 18.49 | 30 | -11.51 |
| | | | | 1 | 0 | 18.79 | 18.58 | 30 | -11.42 |
| | 20385 | 1753.5 | QPSK | 1 | 14 | 18.56 | 18.35 | 30 | -11.65 |
| | 20303 | 1755.5 | QF3K | 8 | 4 | 18.34 | 18.13 | 30 | -11.87 |
| | | | | 15 | 0 | 18.52 | 18.31 | 30 | -11.69 |
| | | | | 1 | 0 | 18.66 | 18.45 | 30 | -11.55 |
| | 10065 | 1711.5 | 16QAM | 1 | 14 | 18.56 | 18.35 | 30 | -11.65 |
| | 19965 | 1711.3 | TOQAW | 8 | 4 | 18.53 | 18.32 | 30 | -11.68 |
| | | | | 15 | 0 | 18.49 | 18.28 | 30 | -11.72 |
| | | | 16QAM | 1 | 0 | 18.57 | 18.36 | 30 | -11.64 |
| 3 | 20175 | 1732.5 | | 1 | 14 | 18.50 | 18.29 | 30 | -11.71 |
| 3 | 20173 | 1732.3 | | 8 | 4 | 18.40 | 18.19 | 30 | -11.81 |
| | | | | 15 | 0 | 18.35 | 18.14 | 30 | -11.86 |
| | | | | 1 | 0 | 18.87 | 18.66 | 30 | -11.34 |
| | 20385 | 1753.5 | 16QAM | 1 | 14 | 18.53 | 18.32 | 30 | -11.68 |
| | 20303 | 1755.5 | TOQAW | 8 | 4 | 18.47 | 18.26 | 30 | -11.74 |
| | | | | 15 | 0 | 18.52 | 18.31 | 30 | -11.69 |
| | | | | 1 | 0 | 18.71 | 18.50 | 30 | -11.5 |
| | 19965 | 1711.5 | 64QAM | 1 | 14 | 18.62 | 18.41 | 30 | -11.59 |
| | 17703 | 1711.3 | 04QAIVI | 8 | 4 | 18.52 | 18.31 | 30 | -11.69 |
| | | | | 15 | 0 | 18.55 | 18.34 | 30 | -11.66 |
| | | | | 1 | 0 | 18.48 | 18.27 | 30 | -11.73 |
| | 20175 | 1732.5 | 64QAM | 1 | 14 | 18.62 | 18.41 | 30 | -11.59 |
| | 20175 | 1732.0 | UHUAINI | 8 | 4 | 18.52 | 18.31 | 30 | -11.69 |
| | | | | 15 | 0 | 18.41 | 18.20 | 30 | -11.8 |
| | | | | 1 | 0 | 18.63 | 18.42 | 30 | -11.58 |
| | 20385 | 1753.5 | 64QAM | 1 | 14 | 18.60 | 18.39 | 30 | -11.61 |
| | 20300 | 1700.0 | UHUAINI | 8 | 4 | 18.61 | 18.40 | 30 | -11.6 |
| | | | | 15 | 0 | 18.43 | 18.22 | 30 | -11.78 |

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Antenna gain (dRi)

| Antenna | gain (dBi) | -0.21 L | TE Band 4 U | lplink 1 | freauenc | cy 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 | 0 | 19.44 | 19.23 | 30 | -10.77 |
| | 19975 | 1712.5 | QPSK | 1 | 24 | 19.43 | 19.22 | 30 | -10.78 |
| | 19973 | 1712.3 | QF3K | 12 | 6 | 19.36 | 19.15 | 30 | -10.85 |
| | | | | 25 | 0 | 19.26 | 19.05 | 30 | -10.95 |
| | | | | 1 | 0 | 19.34 | 19.13 | 30 | -10.87 |
| | 20175 | 1732.5 | QPSK | 1 | 24 | 19.31 | 19.10 | 30 | -10.9 |
| | 20173 | 1732.3 | QF3K | 12 | 6 | 19.30 | 19.09 | 30 | -10.91 |
| | | | | 25 | 0 | 19.33 | 19.12 | 30 | -10.88 |
| | | | | 1 | 0 | 19.38 | 19.17 | 30 | -10.83 |
| | 20375 | 1752.5 | QPSK | 1 | 24 | 19.27 | 19.06 | 30 | -10.94 |
| | 20373 | 1732.3 | QF3K | 12 | 6 | 19.30 | 19.09 | 30 | -10.91 |
| | | | | 25 | 0 | 19.25 | 19.04 | 30 | -10.96 |
| | | | | 1 | 0 | 19.40 | 19.19 | 30 | -10.81 |
| | 10075 | 1712 5 | 16QAM | 1 | 24 | 19.41 | 19.20 | 30 | -10.8 |
| 19975 1712.5 | 1712.3 | TOQAIVI | 12 | 6 | 19.41 | 19.20 | 30 | -10.8 | |
| | | | | 25 | 0 | 19.44 | 19.23 | 30 | -10.77 |
| | | | 16QAM | 1 | 0 | 19.29 | 19.08 | 30 | -10.92 |
| 5 | 20175 | 1732.5 | | 1 | 24 | 19.34 | 19.13 | 30 | -10.87 |
| 5 | 20175 | 1732.3 | | 12 | 6 | 19.34 | 19.13 | 30 | -10.87 |
| | | | | 25 | 0 | 19.37 | 19.16 | 30 | -10.84 |
| | | | | 1 | 0 | 19.32 | 19.11 | 30 | -10.89 |
| | 20375 | 1752.5 | 16QAM | 1 | 24 | 19.44 | 19.23 | 30 | -10.77 |
| | 20373 | 1732.3 | TOQAW | 12 | 6 | 19.39 | 19.18 | 30 | -10.82 |
| | | | | 25 | 0 | 19.32 | 19.11 | 30 | -10.89 |
| | | | | 1 | 0 | 19.29 | 19.08 | 30 | -10.92 |
| | 10075 | 1710 E | 4 4 O A N A | 1 | 24 | 19.36 | 19.15 | 30 | -10.85 |
| | 19975 | 1712.5 | 64QAM | 12 | 6 | 19.37 | 19.16 | 30 | -10.84 |
| | | | | 25 | 0 | 19.27 | 19.06 | 30 | -10.94 |
| | | | | 1 | 0 | 19.35 | 19.14 | 30 | -10.86 |
| | 20175 | 1722 ⊑ | 610011 | 1 | 24 | 19.36 | 19.15 | 30 | -10.85 |
| | 20175 1732.5 | 64QAM | 12 | 6 | 19.34 | 19.13 | 30 | -10.87 | |
| | | | 25 | 0 | 19.44 | 19.23 | 30 | -10.77 | |
| | | | | 1 | 0 | 19.39 | 19.18 | 30 | -10.82 |
| | 20275 | 1752 5 | <i>(4</i> ○ <i>0 10 1</i> | 1 | 24 | 19.30 | 19.09 | 30 | -10.91 |
| | 20375 | 1752.5 | 64QAM | 12 | 6 | 19.35 | 19.14 | 30 | -10.86 |
| | 1702.0 | | 25 | 0 | 19.29 | 19.08 | 30 | -10.92 | |

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| Antenna | gain (dBi) | -0.21 | | | | | | | |
|-------------|---------------|--------------------|-------------|------------|--------------|-------------------------------|--------------------------|------------------------|----------------|
| | | L | TE Band 4_U | lplink 1 | frequenc | cy band : 1710 | | FIDD | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| | | | | 1 | 0 | 19.37 | 19.16 | 30 | -10.84 |
| | | | | 1 | 49 | 19.30 | 19.09 | 30 | -10.91 |
| | 20000 | 1715 | QPSK | 25 | 12 | 19.40 | 19.19 | 30 | -10.81 |
| | | | | 50 | 0 | 19.31 | 19.10 | 30 | -10.9 |
| | | | | 1 | 0 | 19.41 | 19.20 | 30 | -10.8 |
| | 004== | .=00= | 0.001/ | 1 | 49 | 19.41 | 19.20 | 30 | -10.8 |
| | 20175 | 1732.5 | QPSK | 25 | 12 | 19.43 | 19.22 | 30 | -10.78 |
| | | | | 50 | 0 | 19.36 | 19.15 | 30 | -10.85 |
| | | | | 1 | 0 | 19.43 | 19.22 | 30 | -10.78 |
| | 20275 | 1750 | ODCK | 1 | 49 | 19.39 | 19.18 | 30 | -10.82 |
| | 20375 | 1750 | QPSK | 25 | 12 | 19.43 | 19.22 | 30 | -10.78 |
| | | | | 50 | 0 | 19.37 | 19.16 | 30 | -10.84 |
| | | | | 1 | 0 | 19.43 | 19.22 | 30 | -10.78 |
| | 20000 | 1715 | 16QAM | 1 | 49 | 19.41 | 19.20 | 30 | -10.8 |
| | 20000 | 1715 | TOCAM | 25 | 12 | 19.43 | 19.22 | 30 | -10.78 |
| | | | | 50 | 0 | 19.42 | 19.21 | 30 | -10.79 |
| | | | 16QAM | 1 | 0 | 19.44 | 19.23 | 30 | -10.77 |
| 10 | 20175 | 1732.5 | | 1 | 49 | 19.38 | 19.17 | 30 | -10.83 |
| 10 | 20173 | 1732.3 | TOQAW | 25 | 12 | 19.27 | 19.06 | 30 | -10.94 |
| | | | | 50 | 0 | 19.32 | 19.11 | 30 | -10.89 |
| | | | | 1 | 0 | 19.42 | 19.21 | 30 | -10.79 |
| | 20375 | 1750 | 16QAM | 1 | 49 | 19.35 | 19.14 | 30 | -10.86 |
| | 20373 | 1730 | TOQAW | 25 | 12 | 19.38 | 19.17 | 30 | -10.83 |
| | | | | 50 | 0 | 19.33 | 19.12 | 30 | -10.88 |
| | | | | 1 | 0 | 19.36 | 19.15 | 30 | -10.85 |
| | 20000 | 1715 | 64QAM | 1 | 49 | 19.25 | 19.04 | 30 | -10.96 |
| | 20000 | 1710 | 01071111 | 25 | 12 | 19.42 | 19.21 | 30 | -10.79 |
| | | | | 50 | 0 | 19.26 | 19.05 | 30 | -10.95 |
| | | | | 1 | 0 | 19.33 | 19.12 | 30 | -10.88 |
| | 20175 | 1732.5 | 64QAM | 1 | 49 | 19.27 | 19.06 | 30 | -10.94 |
| | 20170 | 1702.0 | 01071111 | 25 | 12 | 19.34 | 19.13 | 30 | -10.87 |
| | | | | 50 | 0 | 19.40 | 19.19 | 30 | -10.81 |
| | | | | 1 | 0 | 19.26 | 19.05 | 30 | -10.95 |
| | 20375 | 1750 | 64QAM | 1 | 49 | 19.43 | 19.22 | 30 | -10.78 |
| | | | | 25 | 12 | 19.37 | 19.16 | 30 | -10.84 |
| | | | 50 | 0 | 19.25 | 19.04 | 30 | -10.96 | |

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Antenna gain (dRi)

| Antenna | gain (dBi) | -0.21 | TE Rand 4 U | Inlink (| fraguaga | cy band : 1710 | to 1755 MUz | | |
|---------|--|-----------------|--------------|----------|----------|----------------|-------------|--------|--------|
| | | | TE Dallu 4_U | | | Conducted | EIRP | EIRP | |
| BW | UL | Frequency | Modulation | RB | RB | Average | Average | Limit | Margin |
| (MHz) | Channel | (MHz) | | Size | Offset | (dBm) | (dBm) | (dBm) | (dB) |
| | | | | 1 | 0 | 19.33 | 19.12 | 30 | -10.88 |
| | 20025 | 1717 [| ODCK | 1 | 74 | 19.27 | 19.06 | 30 | -10.94 |
| | 20025 | 1717.5 | QPSK | 36 | 18 | 19.42 | 19.21 | 30 | -10.79 |
| | | | | 75 | 0 | 19.31 | 19.10 | 30 | -10.9 |
| | | | | 1 | 0 | 19.37 | 19.16 | 30 | -10.84 |
| | 20175 | 1722 5 | ODCK | 1 | 74 | 19.26 | 19.05 | 30 | -10.95 |
| | 20175 | 1732.5 | QPSK | 36 | 18 | 19.39 | 19.18 | 30 | -10.82 |
| | | | | 75 | 0 | 19.30 | 19.09 | 30 | -10.91 |
| | | | | 1 | 0 | 19.25 | 19.04 | 30 | -10.96 |
| | 20225 | 17 <i>1</i> 7 E | QPSK | 1 | 74 | 19.33 | 19.12 | 30 | -10.88 |
| | 20325 | 1747.5 | QPSK | 36 | 18 | 19.39 | 19.18 | 30 | -10.82 |
| | | | | 75 | 0 | 19.32 | 19.11 | 30 | -10.89 |
| | | | | 1 | 0 | 19.44 | 19.23 | 30 | -10.77 |
| | 20025 | 1717.5 | 16QAM | 1 | 74 | 19.34 | 19.13 | 30 | -10.87 |
| | 20025 | 1/1/.5 | TOQAW | 36 | 18 | 19.39 | 19.18 | 30 | -10.82 |
| | | | | 75 | 0 | 19.25 | 19.04 | 30 | -10.96 |
| | | | 1 | 0 | 19.39 | 19.18 | 30 | -10.82 | |
| 15 | 20175 | 1732.5 | 16QAM | 1 | 74 | 19.36 | 19.15 | 30 | -10.85 |
| 15 | 20175 | 1/32.3 | TOQAW | 36 | 18 | 19.37 | 19.16 | 30 | -10.84 |
| | | | | 75 | 0 | 19.36 | 19.15 | 30 | -10.85 |
| | | | | 1 | 0 | 19.42 | 19.21 | 30 | -10.79 |
| | 20325 | 1747.5 | 16QAM | 1 | 74 | 19.41 | 19.20 | 30 | -10.8 |
| | 20323 | 1747.3 | TOQAW | 36 | 18 | 19.40 | 19.19 | 30 | -10.81 |
| | | | | 75 | 0 | 19.31 | 19.10 | 30 | -10.9 |
| | | | | 1 | 0 | 19.38 | 19.17 | 30 | -10.83 |
| | 20025 | 1717.5 | 64QAM | 1 | 74 | 19.36 | 19.15 | 30 | -10.85 |
| | 20023 | 1717.3 | 04QAIVI | 36 | 18 | 19.32 | 19.11 | 30 | -10.89 |
| | | | | 75 | 0 | 19.44 | 19.23 | 30 | -10.77 |
| | | | | 1 | 0 | 19.43 | 19.22 | 30 | -10.78 |
| | 20175 | 1722 5 | 440011 | 1 | 74 | 19.29 | 19.08 | 30 | -10.92 |
| | 20175 | 1732.5 | 64QAM | 36 | 18 | 19.32 | 19.11 | 30 | -10.89 |
| | | | | 75 | 0 | 19.34 | 19.13 | 30 | -10.87 |
| | | | | 1 | 0 | 19.31 | 19.10 | 30 | -10.9 |
| | 20325 | 1747.5 | 64QAM | 1 | 74 | 19.28 | 19.07 | 30 | -10.93 |
| | 20323 | 1/4/.5 | 04QAIVI | 36 | 18 | 19.28 | 19.07 | 30 | -10.93 |
| | | | | 75 | 0 | 19.36 | 19.15 | 30 | -10.85 |

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-0.21Antenna gain (dBi)

| Antenna | gain (dBi) | -0.21 L | TE Band 4_U | lplink f | requenc | cy 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 | 0 | 19.44 | 19.23 | 30 | -10.77 |
| | 20050 | 1700 | ODCI | 1 | 99 | 19.41 | 19.20 | 30 | -10.8 |
| | 20050 | 1720 | QPSK | 50 | 25 | 19.34 | 19.13 | 30 | -10.87 |
| | | | | 100 | 0 | 19.36 | 19.15 | 30 | -10.85 |
| | | | | 1 | 0 | 19.49 | 19.28 | 30 | -10.72 |
| | 20175 | 1722 E | ODCIV | 1 | 99 | 19.38 | 19.17 | 30 | -10.83 |
| | 20175 | 1732.5 | QPSK | 50 | 25 | 19.43 | 19.22 | 30 | -10.78 |
| | | | | 100 | 0 | 19.33 | 19.12 | 30 | -10.88 |
| | | | | 1 | 0 | 19.47 | 19.26 | 30 | -10.74 |
| | 20300 | 1745 | QPSK | 1 | 99 | 19.40 | 19.19 | 30 | -10.81 |
| | 20300 | 1745 | QP3K | 50 | 25 | 19.43 | 19.22 | 30 | -10.78 |
| | | | | 100 | 0 | 19.43 | 19.22 | 30 | -10.78 |
| | | | | 1 | 0 | 19.27 | 19.06 | 30 | -10.94 |
| | 20050 | 1720 | 140011 | 1 | 99 | 19.28 | 19.07 | 30 | -10.93 |
| | 20050 1720 | 16QAM | 50 | 25 | 19.35 | 19.14 | 30 | -10.86 | |
| | | | | 100 | 0 | 19.29 | 19.08 | 30 | -10.92 |
| | | | 1 | 0 | 19.41 | 19.20 | 30 | -10.8 | |
| 20 | 20175 | 1722 E | 140011 | 1 | 99 | 19.33 | 19.12 | 30 | -10.88 |
| 20 | 20175 | 1732.5 | 16QAM | 50 | 25 | 19.35 | 19.14 | 30 | -10.86 |
| | | | | 100 | 0 | 19.41 | 19.20 | 30 | -10.8 |
| | | | | 1 | 0 | 19.39 | 19.18 | 30 | -10.82 |
| | 20300 | 1745 | 16QAM | 1 | 99 | 19.32 | 19.11 | 30 | -10.89 |
| | 20300 | 1743 | TOQAW | 50 | 25 | 19.38 | 19.17 | 30 | -10.83 |
| | | | | 100 | 0 | 19.40 | 19.19 | 30 | -10.81 |
| | | | | 1 | 0 | 19.27 | 19.06 | 30 | -10.94 |
| | 20050 | 1720 | 64QAM | 1 | 99 | 19.40 | 19.19 | 30 | -10.81 |
| | 20030 | 1720 | 04QAIVI | 50 | 25 | 19.36 | 19.15 | 30 | -10.85 |
| | | | | 100 | 0 | 19.31 | 19.10 | 30 | -10.9 |
| | | | | 1 | 0 | 19.27 | 19.06 | 30 | -10.94 |
| | 20175 1732.5 64QAM | 1 | 99 | 19.44 | 19.23 | 30 | -10.77 | | |
| | | 04QAIVI | 50 | 25 | 19.27 | 19.06 | 30 | -10.94 | |
| | | | 100 | 0 | 19.41 | 19.20 | 30 | -10.8 | |
| | | | | 1 | 0 | 19.29 | 19.08 | 30 | -10.92 |
| | 20300 | 1745 | 610011 | 1 | 99 | 19.37 | 19.16 | 30 | -10.84 |
| | 20300 | 1745 | 64QAM | 50 | 25 | 19.40 | 19.19 | 30 | -10.81 |
| | | | | 100 | 0 | 19.40 | 19.19 | 30 | -10.81 |

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Antenna gain (dRi)

| Antenna | gain (dBi) | -3 | I TE Don | 4 E 115 | link froguency | band : 824 to | 010 MU- | | | |
|---------|-------------|-----------|------------|---------|----------------|---------------|---------|---------|--------|--------|
| | | | LIE Ban | a 5_Up | iink irequency | Conducted | ERP | EIRP | EIRP | |
| BW | UL | Frequency | Modulation | RB | RB | Average | Average | Average | Limit | Margin |
| (MHz) | Channel | (MHz) | Modulation | Size | Offset | (dBm) | (dBm) | (dBm) | (dBm) | (dB) |
| | | | | 1 | 0 | 23.29 | 18.14 | 20.29 | 38.45 | -18.16 |
| | | | | 1 | 5 | 23.39 | 18.24 | 20.39 | 38.45 | -18.06 |
| | 20407 | 824.7 | QPSK | 3 | 2 | 23.36 | 18.21 | 20.36 | 38.45 | -18.09 |
| | | | | 6 | 0 | 23.32 | 18.17 | 20.32 | 38.45 | -18.13 |
| | | | | 1 | 0 | 23.39 | 18.24 | 20.39 | 38.45 | -18.06 |
| | | 221 - | 0.501/ | 1 | 5 | 23.36 | 18.21 | 20.36 | 38.45 | -18.09 |
| | 20525 | 836.5 | QPSK | 3 | 2 | 23.29 | 18.14 | 20.29 | 38.45 | -18.16 |
| | | | | 6 | 0 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 |
| | | | | 1 | 0 | 23.24 | 18.09 | 20.24 | 38.45 | -18.21 |
| | 20/42 | 0.40.0 | ODCK | 1 | 5 | 23.26 | 18.11 | 20.26 | 38.45 | -18.19 |
| | 20643 | 848.3 | QPSK | 3 | 2 | 23.29 | 18.14 | 20.29 | 38.45 | -18.16 |
| | | -+-+ | - | 6 | 0 | 23.33 | 18.18 | 20.33 | 38.45 | -18.12 |
| | | | | 1 | 0 | 23.35 | 18.20 | 20.35 | 38.45 | -18.1 |
| | 20407 824.7 | 16∩AM | 1 | 5 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 | |
| | 20407 | 024.7 | 16QAM | 3 | 2 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 |
| | | | | 6 | 0 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| | | | 16QAM | 1 | 0 | 23.27 | 18.12 | 20.27 | 38.45 | -18.18 |
| 1.4 | 20525 | 836.5 | | 1 | 5 | 23.38 | 18.23 | 20.38 | 38.45 | -18.07 |
| 1.4 | 20020 | 030.3 | TOQAIVI | 3 | 2 | 23.39 | 18.24 | 20.39 | 38.45 | -18.06 |
| | | | | 6 | 0 | 23.25 | 18.10 | 20.25 | 38.45 | -18.2 |
| | | | | 1 | 0 | 23.42 | 18.27 | 20.42 | 38.45 | -18.03 |
| | 20643 | 848.3 | 16QAM | 1 | 5 | 23.38 | 18.23 | 20.38 | 38.45 | -18.07 |
| | 20043 | 040.3 | TOQAIVI | 3 | 2 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| | | | | 6 | 0 | 23.27 | 18.12 | 20.27 | 38.45 | -18.18 |
| | | | | 1 | 0 | 23.28 | 18.13 | 20.28 | 38.45 | -18.17 |
| | 20407 | 824.7 | 64QAM | 1 | 5 | 23.39 | 18.24 | 20.39 | 38.45 | -18.06 |
| | 20407 | 024.7 | OTQAIVI | 3 | 2 | 23.33 | 18.18 | 20.33 | 38.45 | -18.12 |
| | | | | 6 | 0 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 |
| | | | | 1 | 0 | 23.41 | 18.26 | 20.41 | 38.45 | -18.04 |
| | 20525 | 836.5 | 64QAM | 1 | 5 | 23.26 | 18.11 | 20.26 | 38.45 | -18.19 |
| | 20020 | 000.0 | OTQAIVI | 3 | 2 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| | | | | 6 | 0 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 |
| | | | | 1 | 0 | 23.26 | 18.11 | 20.26 | 38.45 | -18.19 |
| | 20643 | 848.3 | 64QAM | 1 | 5 | 23.23 | 18.08 | 20.23 | 38.45 | -18.22 |
| | 20040 | U-1U.U | O TQ/ IIVI | 3 | 2 | 23.32 | 18.17 | 20.32 | 38.45 | -18.13 |
| | | | | 6 | 0 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 |

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| Antenna | gain (dBi) | -3 | LTE Ban | d 5_Up | link frequency | band : 824 to | 849 MHz | | | |
|-------------|---------------|--------------------|------------|------------|----------------|-------------------------------|-------------------------|--------------------------|------------------------|----------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| | | | | 1 | 0 | 23.38 | 18.23 | 20.38 | 38.45 | -18.07 |
| | 20415 | 825.5 | QPSK | 1 | 14 | 23.28 | 18.13 | 20.28 | 38.45 | -18.17 |
| | 20413 | 023.3 | QI SIX | 8 | 4 | 23.39 | 18.24 | 20.39 | 38.45 | -18.06 |
| | | | | 15 | 0 | 23.35 | 18.20 | 20.35 | 38.45 | -18.1 |
| | | | | 1 | 0 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 |
| | 20525 | 836.5 | QPSK | 1 | 14 | 23.23 | 18.08 | 20.23 | 38.45 | -18.22 |
| | 20020 | 030.3 | QI SIX | 8 | 4 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| | | | | 15 | 0 | 23.41 | 18.26 | 20.41 | 38.45 | -18.04 |
| | | | | 1 | 0 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| | 20635 | 847.5 | QPSK | 1 | 14 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 |
| | 20033 | 047.3 | QI SIX | 8 | 4 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| | | | | 15 | 0 | 23.38 | 18.23 | 20.38 | 38.45 | -18.07 |
| | | | | 1 | 0 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| | 20415 | 825.5 | 16QAM | 1 | 14 | 23.25 | 18.10 | 20.25 | 38.45 | -18.2 |
| | 20413 | 023.3 | TOQAW | 8 | 4 | 23.27 | 18.12 | 20.27 | 38.45 | -18.18 |
| | | | | 15 | 0 | 23.40 | 18.25 | 20.40 | 38.45 | -18.05 |
| | | | 16QAM | 1 | 0 | 23.39 | 18.24 | 20.39 | 38.45 | -18.06 |
| 3 | 20525 | 836.5 | | 1 | 14 | 23.31 | 18.16 | 20.31 | 38.45 | -18.14 |
| 3 | 20020 | 030.3 | | 8 | 4 | 23.28 | 18.13 | 20.28 | 38.45 | -18.17 |
| | | | | 15 | 0 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 |
| | | | | 1 | 0 | 23.29 | 18.14 | 20.29 | 38.45 | -18.16 |
| | 20635 | 847.5 | 16QAM | 1 | 14 | 23.26 | 18.11 | 20.26 | 38.45 | -18.19 |
| | 20033 | 047.3 | TOQAM | 8 | 4 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 |
| | | | | 15 | 0 | 23.38 | 18.23 | 20.38 | 38.45 | -18.07 |
| | | | | 1 | 0 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 |
| | 20415 | 825.5 | 64QAM | 1 | 14 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 |
| | 20413 | 023.3 | OTQAIN | 8 | 4 | 23.26 | 18.11 | 20.26 | 38.45 | -18.19 |
| | | | | 15 | 0 | 23.31 | 18.16 | 20.31 | 38.45 | -18.14 |
| | | | | 1 | 0 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| | 20525 | 836 5 | 64QAM | 1 | 14 | 23.36 | 18.21 | 20.36 | 38.45 | -18.09 |
| | 20525 836.5 | 030.5 | UHUMINI | 8 | 4 | 23.40 | 18.25 | 20.40 | 38.45 | -18.05 |
| | | | 15 | 0 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 | |
| | | | | 1 | 0 | 23.36 | 18.21 | 20.36 | 38.45 | -18.09 |
| | 20635 | 847.5 | 64QAM | 1 | 14 | 23.39 | 18.24 | 20.39 | 38.45 | -18.06 |
| | 20033 | 047.3 | U4QAIVI | 8 | 4 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 |
| | | | | 15 | 0 | 23.38 | 18.23 | 20.38 | 38.45 | -18.07 |

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| Antenna | gain (dBi) | -3 | | | | 1 2 22 1 | 0.40 14:: | | | |
|---------|------------|-----------|------------|---------|---------------|------------------|------------------|-----------------------|----------------|------------------|
| | | | LTE Ban | d 5_Upl | ink frequency | band : 824 to | | | T | |
| BW | UL | Frequency | Modulation | RB | RB | Conducted | ERP | EIRP | EIRP | Margin |
| (MHz) | Channel | (MHz) | Modulation | Size | Offset | Average (dBm) | Average (dBm) | Average (dBm) | Limit (dBm) | (dB) |
| | | | | 1 | 0 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| | | | | 1 | 24 | 23.38 | 18.23 | 20.37 | 38.45 | -18.07 |
| | 20425 | 826.5 | QPSK | 12 | 6 | 23.43 | 18.28 | 20.36 | 38.45 | -18.02 |
| | | | | 25 | 0 | 23.43 | 18.24 | 20.43 | 38.45 | -18.06 |
| | | | | 1 | 0 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| | | | | 1 | 24 | 23.43 | 18.28 | 20.37 | 38.45 | -18.02 |
| | 20525 | 836.5 | QPSK | 12 | 6 | 23.45 | 18.10 | 20.43 | 38.45 | -18.2 |
| | | | | 25 | 0 | 23.41 | 18.26 | 20.23 | 38.45 | -18.04 |
| | | | | 1 | 0 | 23.41 | 18.10 | 20.41 | 38.45 | -18.2 |
| | | | | 1 | 24 | 23.40 | 18.25 | 20.23 | 38.45 | -18.05 |
| | 20625 | 846.5 | QPSK | 12 | 6 | 23.40 | 18.10 | 20.40 | 38.45 | -18.2 |
| | | | 25 | 0 | 23.29 | 18.14 | 20.29 | 38.45 | -18.16 | |
| | | | | 1 | 0 | 23.29 | 18.17 | 20.29 | 38.45 | -18.13 |
| | | | | 1 | 24 | 23.32 | 18.17 | 20.32 | 38.45 | -18.15 |
| | 20425 | 826.5 | 16QAM | 12 | | 23.38 | 18.23 | 20.38 | 38.45 | -18.07 |
| | | | | 25 | 6 0 | 23.38 | 18.25 | 20.38 | 38.45 | -18.07 |
| | | | | 1 | | 23.40 | 18.22 | 20.40 | 1 | -18.08 |
| | | | | 1 | 0 | | | 20.37 20.42 | 38.45 | |
| 5 | 20525 | 836.5 | 16QAM | 1 | 24 | 23.42 | 18.27 | | 38.45 | -18.03 -18.16 |
| | | | | 12 | 6 | 23.29 | 18.14 | 20.29 | 38.45 | |
| | | | | 25 | 0 | 23.36 | 18.21 | 20.36 | 38.45 | -18.09 |
| | | | | 1 | 0 | 23.33 | 18.18 | | 38.45 | -18.12 |
| | 20625 | 846.5 | 16QAM | 1 | 24 | 23.24 | 18.09 | 20.24 | 38.45 | -18.21 |
| | | | | 12 | 6 | 23.38 | 18.23 | 20.38 | 38.45 | -18.07 |
| | | | | 25 | 0 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 |
| | | | | 1 | 0 | 23.42 | 18.27 | 20.42 | 38.45 | -18.03 |
| | 20425 | 826.5 | 64QAM | 1 | 24 | 23.34 | 18.19 | 20.34 | 38.45 | |
| | | | | 12 | 6 | 23.35 | 18.20 | 20.35 | 38.45 | -18.1 |
| | - | | | 25 | 0 | 23.43 | 18.28 | 20.43 | 38.45 | -18.02 |
| | | | | 1 | 0 | 23.40 | 18.25 | 20.40 | 38.45 | -18.05 |
| | 20525 8 | 836.5 | 64QAM | 1 | 24 | 23.31 | 18.16 | 20.31 | 38.45 | -18.14 |
| | | | | 12 | 6 | 23.32 | 18.17 | 20.32 | 38.45 | -18.13 |
| | | | | 25 | 0 | 23.35 | 18.20 | 20.35 | 38.45 | -18.1 |
| | | | | 1 | 0 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| | 20625 | 846.5 | 64QAM | 1 | 24 | 23.25 | 18.10 | 20.25 | 38.45 | -18.2 |
| | | | | 12 | 6 | 23.38 | 18.23 | 20.38 | 38.45 | -18.07 |
| | | | | 25 | 0 | 23.26 | 18.11 | 20.26 | 38.45 | -18.19 |

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| Antenna | Antenna gain (dBi) LTE Band 5_Uplink frequency band : 824 to 849 MHz BW LII Frequency RB RB Conducted ERP EIRP Margin | | | | | | | | | | | | |
|-------------|---|--------------------|------------|------------|--------------|-------|-------|--------------------------|------------------------|----------------|--|--|--|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | | | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) | | | |
| | | | | 1 | 0 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 | | | |
| | 00450 | 000 | ODCI | 1 | 49 | 23.31 | 18.16 | 20.31 | 38.45 | -18.14 | | | |
| | 20450 | 829 | QPSK | 25 | 12 | 23.40 | 18.25 | 20.40 | 38.45 | -18.05 | | | |
| | | | | 50 | 0 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 | | | |
| | | | | 1 | 0 | 23.38 | 18.23 | 20.38 | 38.45 | -18.07 | | | |
| | 20525 | 836.5 | QPSK | 1 | 49 | 23.28 | 18.13 | 20.28 | 38.45 | -18.17 | | | |
| | 20020 | 830.3 | QPSK | 25 | 12 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 | | | |
| | | | | 50 | 0 | 23.32 | 18.17 | 20.32 | 38.45 | -18.13 | | | |
| | | | | 1 | 0 | 23.52 | 18.37 | 20.52 | 38.45 | -17.93 | | | |
| | 20600 | 844 | QPSK | 1 | 49 | 23.43 | 18.28 | 20.43 | 38.45 | -18.02 | | | |
| | 20000 | 044 | QF3K | 25 | 12 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 | | | |
| | | | | 50 | 0 | 23.22 | 18.07 | 20.22 | 38.45 | -18.23 | | | |
| | | | | 1 | 0 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 | | | |
| | 20450 | 20450 829 10 | 16QAM | 1 | 49 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 | | | |
| | 20450 | 029 | | 25 | 12 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 | | | |
| | | | | 50 | 0 | 23.26 | 18.11 | 20.26 | 38.45 | -18.19 | | | |
| | | | 1 | 0 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 | | | | |
| 10 | 20525 | 836.5 | 16QAM | 1 | 49 | 23.39 | 18.24 | 20.39 | 38.45 | -18.06 | | | |
| 10 | 20323 | 030.3 | TOQAIVI | 25 | 12 | 23.28 | 18.13 | 20.28 | 38.45 | -18.17 | | | |
| | | | | 50 | 0 | 23.31 | 18.16 | 20.31 | 38.45 | -18.14 | | | |
| | | | | 1 | 0 | 23.41 | 18.26 | 20.41 | 38.45 | -18.04 | | | |
| | 20600 | 844 | 16QAM | 1 | 49 | 23.29 | 18.14 | 20.29 | 38.45 | -18.16 | | | |
| | 20000 | 044 | TOQAIVI | 25 | 12 | 23.29 | 18.14 | 20.29 | 38.45 | -18.16 | | | |
| | | | | 50 | 0 | 23.39 | 18.24 | 20.39 | 38.45 | -18.06 | | | |
| | | | | 1 | 0 | 23.36 | 18.21 | 20.36 | 38.45 | -18.09 | | | |
| | 20450 | 829 | 64QAM | 1 | 49 | 23.43 | 18.28 | 20.43 | 38.45 | -18.02 | | | |
| | 20430 | 027 | 04QAIVI | 25 | 12 | 23.35 | 18.20 | 20.35 | 38.45 | -18.1 | | | |
| | | | | 50 | 0 | 23.40 | 18.25 | 20.40 | 38.45 | -18.05 | | | |
| | | | | 1 | 0 | 23.28 | 18.13 | 20.28 | 38.45 | -18.17 | | | |
| | 20525 836.5 64QAM | 640AM | 1 | 49 | 23.31 | 18.16 | 20.31 | 38.45 | -18.14 | | | | |
| | | 030.0 | UHUMINI | 25 | 12 | 23.38 | 18.23 | 20.38 | 38.45 | -18.07 | | | |
| | | | 50 | 0 | 23.35 | 18.20 | 20.35 | 38.45 | -18.1 | | | | |
| | | | 1 | 0 | 23.43 | 18.28 | 20.43 | 38.45 | -18.02 | | | | |
| | 20600 | 8/1/1 | 64QAM | 1 | 49 | 23.31 | 18.16 | 20.31 | 38.45 | -18.14 | | | |
| | 20600 844 64QA | UHUMINI | 25 | 12 | 23.42 | 18.27 | 20.42 | 38.45 | -18.03 | | | | |
| | | | | 50 | 0 | 23.27 | 18.12 | 20.27 | 38.45 | -18.18 | | | |

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Antenna gain (dBi) -0.19

| Antenna gain (dBi) -0.19 LTE Band 7_Uplink frequency band : 2500 to 2570 MHz RW LII Frequency RR RR Conducted EIRP EIRP Margin | | | | | | | | | | | |
|--|---------------|--------------------|----------------|------------|--------------|-------|-------|------------------------|----------------|--|--|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | | | EIRP Limit (dBm) | Margin (dB) | | |
| | | | | 1 | 0 | 15.93 | 15.74 | 33 | -17.26 | | |
| | 20775 | 2502.5 | ODCK | 1 | 24 | 15.81 | 15.62 | 33 | -17.38 | | |
| | 20775 | 2502.5 | QPSK | 12 | 6 | 15.93 | 15.74 | 33 | -17.26 | | |
| | | | | 25 | 0 | 15.95 | 15.76 | 33 | -17.24 | | |
| | | | | 1 | 0 | 15.96 | 15.77 | 33 | -17.23 | | |
| | 21100 | 2525 | ODCK | 1 | 24 | 15.90 | 15.71 | 33 | -17.29 | | |
| | 21100 | 2535 | QPSK | 12 | 6 | 15.87 | 15.68 | 33 | -17.32 | | |
| | | | | 25 | 0 | 15.86 | 15.67 | 33 | -17.33 | | |
| | | | | 1 | 0 | 15.96 | 15.77 | 33 | -17.23 | | |
| | 21275 | 25/75 | QPSK | 1 | 24 | 15.88 | 15.69 | 33 | -17.31 | | |
| | 21375 | 2567.5 | UPSK | 12 | 6 | 15.87 | 15.68 | 33 | -17.32 | | |
| | | | 16QAM - | 25 | 0 | 15.80 | 15.61 | 33 | -17.39 | | |
| | | | | 1 | 0 | 15.78 | 15.59 | 33 | -17.41 | | |
| | 20775 | 2E02 E | | 1 | 24 | 15.90 | 15.71 | 33 | -17.29 | | |
| | 20773 | 20775 2502.5 | | 12 | 6 | 15.93 | 15.74 | 33 | -17.26 | | |
| | | | | 25 | 0 | 15.77 | 15.58 | 33 | -17.42 | | |
| | | | | 1 | 0 | 15.83 | 15.64 | 33 | -17.36 | | |
| r | 21100 | 2535 | 1/ 0 1 1 1 | 1 | 24 | 15.83 | 15.64 | 33 | -17.36 | | |
| 5 | 21100 | 2030 | 16QAM | 12 | 6 | 15.80 | 15.61 | 33 | -17.39 | | |
| | | | | 25 | 0 | 15.79 | 15.60 | 33 | -17.4 | | |
| | | | | 1 | 0 | 15.90 | 15.71 | 33 | -17.29 | | |
| | 21375 | 2567.5 | 16QAM | 1 | 24 | 15.94 | 15.75 | 33 | -17.25 | | |
| | 21375 | 2007.0 | ToQAIVI | 12 | 6 | 15.91 | 15.72 | 33 | -17.28 | | |
| | | | | 25 | 0 | 15.90 | 15.71 | 33 | -17.29 | | |
| | | | | 1 | 0 | 15.86 | 15.67 | 33 | -17.33 | | |
| | 20775 | 2502.5 | 64QAM | 1 | 24 | 15.81 | 15.62 | 33 | -17.38 | | |
| | 20773 | 2302.3 | 04QAIVI | 12 | 6 | 15.88 | 15.69 | 33 | -17.31 | | |
| | | | | 25 | 0 | 15.78 | 15.59 | 33 | -17.41 | | |
| | | | | 1 | 0 | 15.87 | 15.68 | 33 | -17.32 | | |
| | 21100 | 2525 | 440011 | 1 | 24 | 15.79 | 15.60 | 33 | -17.4 | | |
| | 21100 | 2535 | 64QAM | 12 | 6 | 15.93 | 15.74 | 33 | -17.26 | | |
| | | | | 25 | 0 | 15.78 | 15.59 | 33 | -17.41 | | |
| | | | | 1 | 0 | 15.91 | 15.72 | 33 | -17.28 | | |
| | 21275 | 25/75 | 440011 | 1 | 24 | 15.89 | 15.70 | 33 | -17.3 | | |
| | 21375 | 2567.5 | 64QAM | 12 | 6 | 15.79 | 15.60 | 33 | -17.4 | | |
| | | | | 25 | 0 | 15.82 | 15.63 | 33 | -17.37 | | |

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Antenna gain (dBi) -0.19

| Antenna gain (dBi) -0.19 LTE Band 7_Uplink frequency band : 2500 to 2570 MHz Conducted EIRP EIRP | | | | | | | | | | | |
|--|---------------|--------------------|------------|------------|--------------|-------------------------------|--------------------------|------------------------|----------------|--|--|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) | | |
| | | | | 1 | 0 | 15.85 | 15.66 | 33 | -17.34 | | |
| | 20000 | ٦٢٥٢ | ODCK | 1 | 49 | 15.78 | 15.59 | 33 | -17.41 | | |
| | 20800 | 2505 | QPSK | 25 | 12 | 15.89 | 15.70 | 33 | -17.3 | | |
| | | | | 50 | 0 | 15.88 | 15.69 | 33 | -17.31 | | |
| | | | | 1 | 0 | 15.94 | 15.75 | 33 | -17.25 | | |
| | 21100 | 2535 | QPSK | 1 | 49 | 15.95 | 15.76 | 33 | -17.24 | | |
| | 21100 | 2000 | UPSK | 25 | 12 | 15.82 | 15.63 | 33 | -17.37 | | |
| | | | | 50 | 0 | 15.79 | 15.60 | 33 | -17.4 | | |
| | | | | 1 | 0 | 15.95 | 15.76 | 33 | -17.24 | | |
| | 21350 | 2565 | QPSK | 1 | 49 | 15.77 | 15.58 | 33 | -17.42 | | |
| | 21330 | 2000 | UPSK | 25 | 12 | 15.82 | 15.63 | 33 | -17.37 | | |
| | | | | 50 | 0 | 15.78 | 15.59 | 33 | -17.41 | | |
| | | | 1 | 0 | 15.94 | 15.75 | 33 | -17.25 | | | |
| 20800 | 2505 | 16QAM | 1 | 49 | 15.94 | 15.75 | 33 | -17.25 | | | |
| | 20000 | 2000 | TOQAW | 25 | 12 | 15.78 | 15.59 | 33 | -17.41 | | |
| | | | | 50 | 0 | 15.96 | 15.77 | 33 | -17.23 | | |
| | | | 16QAM | 1 | 0 | 15.92 | 15.73 | 33 | -17.27 | | |
| 10 | 21100 | 2535 | | 1 | 49 | 15.78 | 15.59 | 33 | -17.41 | | |
| 10 | 21100 | 2000 | TOQAW | 25 | 12 | 15.77 | 15.58 | 33 | -17.42 | | |
| | | | | 50 | 0 | 15.92 | 15.73 | 33 | -17.27 | | |
| | | | | 1 | 0 | 15.93 | 15.74 | 33 | -17.26 | | |
| | 21350 | 2565 | 16QAM | 1 | 49 | 15.84 | 15.65 | 33 | -17.35 | | |
| | 21330 | 2000 | TOQAW | 25 | 12 | 15.91 | 15.72 | 33 | -17.28 | | |
| | | | | 50 | 0 | 15.91 | 15.72 | 33 | -17.28 | | |
| | | | | 1 | 0 | 15.80 | 15.61 | 33 | -17.39 | | |
| | 20800 | 2505 | 64QAM | 1 | 49 | 15.80 | 15.61 | 33 | -17.39 | | |
| | 20000 | 2000 | 04QAIVI | 25 | 12 | 15.81 | 15.62 | 33 | -17.38 | | |
| | | | | 50 | 0 | 15.89 | 15.70 | 33 | -17.3 | | |
| | | | | 1 | 0 | 15.89 | 15.70 | 33 | -17.3 | | |
| | 21100 | 2535 | 64000 | 1 | 49 | 15.90 | 15.71 | 33 | -17.29 | | |
| | 21100 | 2030 | 64QAM | 25 | 12 | 15.85 | 15.66 | 33 | -17.34 | | |
| | | | | 50 | 0 | 15.90 | 15.71 | 33 | -17.29 | | |
| | | | | 1 | 0 | 15.83 | 15.64 | 33 | -17.36 | | |
| | 21250 | 25/5 | 440011 | 1 | 49 | 15.95 | 15.76 | 33 | -17.24 | | |
| | 21350 | 2565 | 64QAM | 25 | 12 | 15.78 | 15.59 | 33 | -17.41 | | |
| | | | | 50 | 0 | 15.80 | 15.61 | 33 | -17.39 | | |

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Antenna gain (dRi) -0 19

| Antenna gain (dBi) -0.19 LTE Band 7_Uplink frequency band : 2500 to 2570 MHz BW UI Frequency RB RB Conducted EIRP EIRP Margin | | | | | | | | | | | |
|---|---------------|--------------------|------------|------------|--------------|-------|-------|------------------------|----------------|--|--|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | | | EIRP Limit (dBm) | Margin (dB) | | |
| | | | | 1 | 0 | 15.88 | 15.69 | 33 | -17.31 | | |
| | 20025 | 2507.5 | ODCK | 1 | 74 | 15.82 | 15.63 | 33 | -17.37 | | |
| | 20825 | 2507.5 | QPSK | 36 | 18 | 15.85 | 15.66 | 33 | -17.34 | | |
| | | | | 75 | 0 | 15.79 | 15.60 | 33 | -17.4 | | |
| | | | | 1 | 0 | 15.91 | 15.72 | 33 | -17.28 | | |
| | 21100 | 2535 | QPSK | 1 | 74 | 15.79 | 15.60 | 33 | -17.4 | | |
| | 21100 | 2030 | QP3K | 36 | 18 | 15.92 | 15.73 | 33 | -17.27 | | |
| | | | | 75 | 0 | 15.89 | 15.70 | 33 | -17.3 | | |
| | | | | 1 | 0 | 15.95 | 15.76 | 33 | -17.24 | | |
| | 21375 | 2562.5 | QPSK | 1 | 74 | 15.83 | 15.64 | 33 | -17.36 | | |
| | 21373 | 2302.3 | UPSK | 36 | 18 | 15.92 | 15.73 | 33 | -17.27 | | |
| | | | | 75 | 0 | 15.92 | 15.73 | 33 | -17.27 | | |
| | | | | 1 | 0 | 15.89 | 15.70 | 33 | -17.3 | | |
| | 20025 | 2507.5 | 16QAM | 1 | 74 | 15.83 | 15.64 | 33 | -17.36 | | |
| | 20825 2507.5 | TOQAW | 36 | 18 | 15.92 | 15.73 | 33 | -17.27 | | | |
| | | | 75 | 0 | 15.81 | 15.62 | 33 | -17.38 | | | |
| | | | | 1 | 0 | 15.90 | 15.71 | 33 | -17.29 | | |
| 15 | 21100 | 2535 | 16QAM | 1 | 74 | 15.96 | 15.77 | 33 | -17.23 | | |
| 15 | 21100 | 2030 | TOQAW | 36 | 18 | 15.82 | 15.63 | 33 | -17.37 | | |
| | | | | 75 | 0 | 15.81 | 15.62 | 33 | -17.38 | | |
| | | | | 1 | 0 | 15.81 | 15.62 | 33 | -17.38 | | |
| | 21375 | 2562.5 | 16QAM | 1 | 74 | 15.92 | 15.73 | 33 | -17.27 | | |
| | 21373 | 2302.3 | TOQAW | 36 | 18 | 15.86 | 15.67 | 33 | -17.33 | | |
| | | | | 75 | 0 | 15.85 | 15.66 | 33 | -17.34 | | |
| | | | | 1 | 0 | 15.86 | 15.67 | 33 | -17.33 | | |
| | 20825 | 2507.5 | 64QAM | 1 | 74 | 15.84 | 15.65 | 33 | -17.35 | | |
| | 20023 | 2307.3 | 04QAIVI | 36 | 18 | 15.84 | 15.65 | 33 | -17.35 | | |
| | | | | 75 | 0 | 15.91 | 15.72 | 33 | -17.28 | | |
| | | | | 1 | 0 | 15.89 | 15.70 | 33 | -17.3 | | |
| | 21100 2535 | 64QAM | 1 | 74 | 15.79 | 15.60 | 33 | -17.4 | | | |
| | 21100 | 2000 | UHUAIVI | 36 | 18 | 15.93 | 15.74 | 33 | -17.26 | | |
| | | | 75 | 0 | 15.87 | 15.68 | 33 | -17.32 | | | |
| | | + + - | | 1 | 0 | 15.91 | 15.72 | 33 | -17.28 | | |
| | 21375 | 2562.5 | 64QAM | 1 | 74 | 15.95 | 15.76 | 33 | -17.24 | | |
| | 213/3 | 2302.3 | UHUAIVI | 36 | 18 | 15.82 | 15.63 | 33 | -17.37 | | |
| | | | | 75 | 0 | 15.84 | 15.65 | 33 | -17.35 | | |

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Antenna gain (dRi) Λ 10

| чиенна | gain (dBi) | -0.19 L | TE Band 7_U | lplink 1 | frequenc | cy 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) |
| | | | | 1 | 0 | 15.99 | 15.80 | 33 | -17.2 |
| | 20850 | 2510 | QPSK | 1 | 99 | 15.91 | 15.72 | 33 | -17.28 |
| | 20000 | 2010 | QPSK | 50 | 25 | 15.92 | 15.73 | 33 | -17.27 |
| | | | | 100 | 0 | 15.91 | 15.72 | 33 | -17.28 |
| | | | | 1 | 0 | 15.89 | 15.70 | 33 | -17.3 |
| | 21100 | 2535 | QPSK | 1 | 99 | 15.83 | 15.64 | 33 | -17.36 |
| | 21100 | 2030 | UPSK | 50 | 25 | 15.93 | 15.74 | 33 | -17.26 |
| | | | | 100 | 0 | 15.88 | 15.69 | 33 | -17.31 |
| | | | | 1 | 0 | 15.83 | 15.64 | 33 | -17.36 |
| | 21350 | 2560 | QPSK | 1 | 99 | 15.92 | 15.73 | 33 | -17.27 |
| | 21350 | 2500 | UPSK | 50 | 25 | 15.93 | 15.74 | 33 | -17.26 |
| | | | | 100 | 0 | 15.98 | 15.79 | 33 | -17.21 |
| | | | | 1 | 0 | 15.96 | 15.77 | 33 | -17.23 |
| | 20050 | 2510 | 16QAM | 1 | 99 | 15.97 | 15.78 | 33 | -17.22 |
| | 20850 2510 | 16QAW | 50 | 25 | 15.82 | 15.63 | 33 | -17.37 | |
| | | | 100 | 0 | 15.89 | 15.70 | 33 | -17.3 | |
| | | | | 1 | 0 | 15.79 | 15.60 | 33 | -17.4 |
| 20 | 01100 | 2525 | 1/0414 | 1 | 99 | 15.93 | 15.74 | 33 | -17.26 |
| 20 | 21100 | 2535 | 16QAM | 50 | 25 | 15.81 | 15.62 | 33 | -17.38 |
| | | | | 100 | 0 | 15.85 | 15.66 | 33 | -17.34 |
| | | | | 1 | 0 | 15.96 | 15.77 | 33 | -17.23 |
| | 21250 | 25/0 | 1/0414 | 1 | 99 | 15.80 | 15.61 | 33 | -17.39 |
| | 21350 | 2560 | 16QAM | 50 | 25 | 15.86 | 15.67 | 33 | -17.33 |
| | | | | 100 | 0 | 15.91 | 15.72 | 33 | -17.28 |
| | | | | 1 | 0 | 15.89 | 15.70 | 33 | -17.3 |
| | 20050 | 0510 | (4000 | 1 | 99 | 15.86 | 15.67 | 33 | -17.33 |
| | 20850 | 2510 | 64QAM | 50 | 25 | 15.84 | 15.65 | 33 | -17.35 |
| | | | | 100 | 0 | 15.85 | 15.66 | 33 | -17.34 |
| | | | | 1 | 0 | 15.92 | 15.73 | 33 | -17.27 |
| | | / 40 0 0 0 | 1 | 99 | 15.80 | 15.61 | 33 | -17.39 | |
| | 21100 | 2535 | 64QAM | 50 | 25 | 15.96 | 15.77 | 33 | -17.23 |
| | | | 100 | 0 | 15.94 | 15.75 | 33 | -17.25 | |
| | | | 1 | 0 | 15.86 | 15.67 | 33 | -17.33 | |
| | 04050 | 05/0 | (40.833 | 1 | 99 | 15.91 | 15.72 | 33 | -17.28 |
| | 21350 | 21350 2560 6 | 64QAM | 50 | 25 | 15.95 | 15.76 | 33 | -17.24 |
| | | | | 100 | 0 | 15.81 | 15.62 | 33 | -17.38 |

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Antenna gain (dRi)

| Antenna | Antenna gain (dBi) -0.74 LTE Band 12_Uplink frequency band : 699 to 716 MHz Conducted FRP FIRE FIRE | | | | | | | | | | | |
|-------------|---|--------------------|------------|------------|----------------|-------------------------------|-------------------------|--------------------------|------------------------|----------------|--|--|
| | | | LTE Band | d 12_Up | olink frequenc | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) | | |
| | | | | 1 | 0 | 21.78 | 18.89 | 21.04 | 34.77 | -13.73 | | |
| | | | 0.501/ | 1 | 5 | 21.79 | 18.90 | 21.05 | 34.77 | -13.72 | | |
| | 23017 | 699.7 | QPSK | 3 | 2 | 21.87 | 18.98 | 21.13 | 34.77 | -13.64 | | |
| | | | | 6 | 0 | 21.81 | 18.92 | 21.07 | 34.77 | -13.7 | | |
| | | | | 1 | 0 | 21.89 | 19.00 | 21.15 | 34.77 | -13.62 | | |
| | 00005 | 707.5 | ODGI | 1 | 5 | 21.80 | 18.91 | 21.06 | 34.77 | -13.71 | | |
| | 23095 | 707.5 | QPSK | 3 | 2 | 21.88 | 18.99 | 21.14 | 34.77 | -13.63 | | |
| | | | | 6 | 0 | 21.73 | 18.84 | 20.99 | 34.77 | -13.78 | | |
| | | | | 1 | 0 | 21.74 | 18.85 | 21.00 | 34.77 | -13.77 | | |
| | 22172 | 71 | ODCK | 1 | 5 | 21.87 | 18.98 | 21.13 | 34.77 | -13.64 | | |
| | 23173 | 715.5 | QPSK | 3 | 2 | 21.88 | 18.99 | 21.14 | 34.77 | -13.63 | | |
| | | | | 6 | 0 | 21.89 | 19.00 | 21.15 | 34.77 | -13.62 | | |
| | | | 16QAM | 1 | 0 | 21.81 | 18.92 | 21.07 | 34.77 | -13.7 | | |
| | 23017 | 699.7 | | 1 | 5 | 21.72 | 18.83 | 20.98 | 34.77 | -13.79 | | |
| | 23017 699.7 | 099.7 | | 3 | 2 | 21.90 | 19.01 | 21.16 | 34.77 | -13.61 | | |
| | | | | 6 | 0 | 21.90 | 19.01 | 21.16 | 34.77 | -13.61 | | |
| | | | | 1 | 0 | 21.83 | 18.94 | 21.09 | 34.77 | -13.68 | | |
| 1.4 | 23095 | 707.5 | 16QAM | 1 | 5 | 21.78 | 18.89 | 21.04 | 34.77 | -13.73 | | |
| 1.4 | 23093 | 707.5 | TOQAW | 3 | 2 | 21.82 | 18.93 | 21.08 | 34.77 | -13.69 | | |
| | | | | 6 | 0 | 21.81 | 18.92 | 21.07 | 34.77 | -13.7 | | |
| | | | | 1 | 0 | 21.80 | 18.91 | 21.06 | 34.77 | -13.71 | | |
| | 23173 | 715.5 | 16QAM | 1 | 5 | 21.87 | 18.98 | 21.13 | 34.77 | -13.64 | | |
| | 23173 | 713.3 | TOQAWI | 3 | 2 | 21.89 | 19.00 | 21.15 | 34.77 | -13.62 | | |
| | | | | 6 | 0 | 21.76 | 18.87 | 21.02 | 34.77 | -13.75 | | |
| | | | | 1 | 0 | 21.76 | 18.87 | 21.02 | 34.77 | -13.75 | | |
| | 23017 | 699.7 | 64QAM | 1 | 5 | 21.76 | 18.87 | 21.02 | 34.77 | -13.75 | | |
| | 25017 | 077.1 | 0+Q/ ((V) | 3 | 2 | 21.76 | 18.87 | 21.02 | 34.77 | -13.75 | | |
| | | | | 6 | 0 | 21.81 | 18.92 | 21.07 | 34.77 | -13.7 | | |
| | | | | 1 | 0 | 21.81 | 18.92 | 21.07 | 34.77 | -13.7 | | |
| | 23095 707.5 64Q | 64QAM | 1 | 5 | 21.83 | 18.94 | 21.09 | 34.77 | -13.68 | | | |
| | 20070 | , , , , , | 012/11/1 | 3 | 2 | 21.76 | 18.87 | 21.02 | 34.77 | -13.75 | | |
| | | | | 6 | 0 | 21.82 | 18.93 | 21.08 | 34.77 | -13.69 | | |
| | | | 1 | 0 | 21.83 | 18.94 | 21.09 | 34.77 | -13.68 | | | |
| | 23173 | 715.5 | 64QAM | 1 | 5 | 21.83 | 18.94 | 21.09 | 34.77 | -13.68 | | |
| | 23173 715.5 | 012/11/1 | 3 | 2 | 21.86 | 18.97 | 21.12 | 34.77 | -13.65 | | | |
| | | | | 6 | 0 | 21.83 | 18.94 | 21.09 | 34.77 | -13.68 | | |

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Antenna gain (dRi) n 7/

| Antenna | Antenna gain (dBi) -0.74 LTE Band 12_Uplink frequency band : 699 to 716 MHz Conducted ERP EIRP | | | | | | | | | | | | |
|---------|--|-----------|----------------|------|--------|---------|---------|---------|--------|--------|--|--|--|
| | | | LIE Dall | | | | | FIDD | FIDD | | | | |
| BW | UL | Frequency | Modulation | RB | RB | Average | Average | Average | Limit | Margin | | | |
| (MHz) | Channel | (MHz) | Modulation | Size | Offset | (dBm) | (dBm) | (dBm) | (dBm) | (dB) | | | |
| | | | | 1 | 0 | 21.90 | 19.01 | 21.16 | 34.77 | -13.61 | | | |
| | 22225 | 700 5 | 0001 | 1 | 14 | 21.73 | 18.84 | 20.99 | 34.77 | -13.78 | | | |
| | 23025 | 700.5 | QPSK | 8 | 4 | 21.82 | 18.93 | 21.08 | 34.77 | -13.69 | | | |
| | | | | 15 | 0 | 21.83 | 18.94 | 21.09 | 34.77 | -13.68 | | | |
| | | | | 1 | 0 | 21.89 | 19.00 | 21.15 | 34.77 | -13.62 | | | |
| | 00005 | 707.5 | ODOM | 1 | 14 | 21.85 | 18.96 | 21.11 | 34.77 | -13.66 | | | |
| | 23095 | 707.5 | QPSK | 8 | 4 | 21.87 | 18.98 | 21.13 | 34.77 | -13.64 | | | |
| | | | | 15 | 0 | 21.76 | 18.87 | 21.02 | 34.77 | -13.75 | | | |
| | | | | 1 | 0 | 21.87 | 18.98 | 21.13 | 34.77 | -13.64 | | | |
| | 221/5 | 71 / [| ODCK | 1 | 14 | 21.77 | 18.88 | 21.03 | 34.77 | -13.74 | | | |
| | 23165 | 714.5 | QPSK | 8 | 4 | 21.87 | 18.98 | 21.13 | 34.77 | -13.64 | | | |
| | | | | 15 | 0 | 21.83 | 18.94 | 21.09 | 34.77 | -13.68 | | | |
| | | | 16QAM - | 1 | 0 | 21.74 | 18.85 | 21.00 | 34.77 | -13.77 | | | |
| | 22025 | 700.5 | | 1 | 14 | 21.84 | 18.95 | 21.10 | 34.77 | -13.67 | | | |
| | 23025 700.5 | 700.5 | | 8 | 4 | 21.75 | 18.86 | 21.01 | 34.77 | -13.76 | | | |
| | | | | 15 | 0 | 21.87 | 18.98 | 21.13 | 34.77 | -13.64 | | | |
| | | | 1/0414 | 1 | 0 | 21.90 | 19.01 | 21.16 | 34.77 | -13.61 | | | |
| 3 | 23095 | 707.5 | | 1 | 14 | 21.90 | 19.01 | 21.16 | 34.77 | -13.61 | | | |
| 3 | 23093 | 707.3 | 16QAM | 8 | 4 | 21.78 | 18.89 | 21.04 | 34.77 | -13.73 | | | |
| | | | | 15 | 0 | 21.73 | 18.84 | 20.99 | 34.77 | -13.78 | | | |
| | | | | 1 | 0 | 21.80 | 18.91 | 21.06 | 34.77 | -13.71 | | | |
| | 23165 | 714.5 | 16QAM | 1 | 14 | 21.81 | 18.92 | 21.07 | 34.77 | -13.7 | | | |
| | 23100 | 714.5 | TOQAW | 8 | 4 | 21.77 | 18.88 | 21.03 | 34.77 | -13.74 | | | |
| | | | | 15 | 0 | 21.80 | 18.91 | 21.06 | 34.77 | -13.71 | | | |
| | | | | 1 | 0 | 21.75 | 18.86 | 21.01 | 34.77 | -13.76 | | | |
| | 23025 | 700.5 | 64QAM | 1 | 14 | 21.80 | 18.91 | 21.06 | 34.77 | -13.71 | | | |
| | 23020 | 700.5 | UHQAIVI | 8 | 4 | 21.80 | 18.91 | 21.06 | 34.77 | -13.71 | | | |
| | | | | 15 | 0 | 21.89 | 19.00 | 21.15 | 34.77 | -13.62 | | | |
| | | | | 1 | 0 | 21.82 | 18.93 | 21.08 | 34.77 | -13.69 | | | |
| | 23095 707.5 64QAM | 640AM | 1 | 14 | 21.83 | 18.94 | 21.09 | 34.77 | -13.68 | | | | |
| | | UHQAIVI | 8 | 4 | 21.72 | 18.83 | 20.98 | 34.77 | -13.79 | | | | |
| | | | 15 | 0 | 21.84 | 18.95 | 21.10 | 34.77 | -13.67 | | | | |
| | | | 1 | 0 | 21.84 | 18.95 | 21.10 | 34.77 | -13.67 | | | | |
| | 23165 | 714.5 | 64QAM | 1 | 14 | 21.74 | 18.85 | 21.00 | 34.77 | -13.77 | | | |
| | 23103 | / 14.0 | UHQAIVI | 8 | 4 | 21.77 | 18.88 | 21.03 | 34.77 | -13.74 | | | |
| | | | | 15 | 0 | 21.86 | 18.97 | 21.12 | 34.77 | -13.65 | | | |

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| Antenna (| gain (dBi) | -0.74 | LTED | 140 11 | . P L. C | - l (00 l- | 74 / 8411- | | | |
|-----------|-------------|-----------|------------|--------|-----------------|------------------|------------------|------------------|---------------|--------|
| | | | LIE Band | 112_Up | olink frequency | y band : 699 to | | FIDD | FIDD | |
| BW | UL | Frequency | Modulation | RB | RB | Conducted | ERP | EIRP | EIRP Limit | Margin |
| (MHz) | Channel | (MHz) | Modulation | Size | Offset | Average (dBm) | Average (dBm) | Average (dBm) | (dBm) | (dB) |
| | | | | 1 | 0 | 21.79 | 18.90 | 21.05 | 34.77 | -13.72 |
| | | | | 1 | 24 | 21.74 | 18.85 | 21.00 | 34.77 | -13.72 |
| | 23035 | 701.5 | QPSK | 12 | 6 | 21.74 | 19.02 | 21.17 | 34.77 | -13.6 |
| | | | | 25 | 0 | 21.79 | 18.90 | 21.05 | 34.77 | -13.72 |
| | | | | 1 | 0 | 21.83 | 18.94 | 21.09 | 34.77 | -13.68 |
| | | | | 1 | 24 | 21.73 | 18.84 | 20.99 | 34.77 | -13.78 |
| | 23095 | 707.5 | QPSK | 12 | 6 | 21.91 | 19.02 | 21.17 | 34.77 | -13.6 |
| | | | | 25 | 0 | 21.82 | 18.93 | 21.08 | 34.77 | -13.69 |
| | | | | 1 | 0 | 21.73 | 18.84 | 20.99 | 34.77 | -13.78 |
| | | | | 1 | 24 | 21.84 | 18.95 | 21.10 | 34.77 | -13.67 |
| | 23155 | 713.5 | QPSK | 12 | 6 | 21.91 | 19.02 | 21.17 | 34.77 | -13.6 |
| | | | | 25 | 0 | 21.75 | 18.86 | 21.01 | 34.77 | -13.76 |
| | | | | 1 | 0 | 21.77 | 18.88 | 21.03 | 34.77 | -13.74 |
| | | 035 701.5 | 1/0004 | 1 | 24 | 21.84 | 18.95 | 21.10 | 34.77 | -13.67 |
| | 23035 701. | 701.5 | 16QAM | 12 | 6 | 21.75 | 18.86 | 21.01 | 34.77 | -13.76 |
| | | | | 25 | 0 | 21.75 | 18.86 | 21.01 | 34.77 | -13.76 |
| | | | | 1 | 0 | 21.91 | 19.02 | 21.17 | 34.77 | -13.6 |
| _ | | | | 1 | 24 | 21.89 | 19.00 | 21.15 | 34.77 | -13.62 |
| 5 | 23095 | 707.5 | 16QAM | 12 | 6 | 21.85 | 18.96 | 21.11 | 34.77 | -13.66 |
| | | | | 25 | 0 | 21.78 | 18.89 | 21.04 | 34.77 | -13.73 |
| | | | | 1 | 0 | 21.73 | 18.84 | 20.99 | 34.77 | -13.78 |
| | 00455 | 710 5 | 1/0414 | 1 | 24 | 21.91 | 19.02 | 21.17 | 34.77 | -13.6 |
| | 23155 | 713.5 | 16QAM | 12 | 6 | 21.80 | 18.91 | 21.06 | 34.77 | -13.71 |
| | | | | 25 | 0 | 21.85 | 18.96 | 21.11 | 34.77 | -13.66 |
| | | | | 1 | 0 | 21.90 | 19.01 | 21.16 | 34.77 | -13.61 |
| | 22025 | 701 F | (4000 | 1 | 24 | 21.78 | 18.89 | 21.04 | 34.77 | -13.73 |
| | 23035 | 701.5 | 64QAM | 12 | 6 | 21.78 | 18.89 | 21.04 | 34.77 | -13.73 |
| | | | | 25 | 0 | 21.81 | 18.92 | 21.07 | 34.77 | -13.7 |
| | | | | 1 | 0 | 21.74 | 18.85 | 21.00 | 34.77 | -13.77 |
| | 22005 | 707 F | 440ANA | 1 | 24 | 21.73 | 18.84 | 20.99 | 34.77 | -13.78 |
| | 23095 707.5 | 707.5 | 64QAM | 12 | 6 | 21.75 | 18.86 | 21.01 | 34.77 | -13.76 |
| | | | 25 | 0 | 21.82 | 18.93 | 21.08 | 34.77 | -13.69 | |
| | | | | 1 | 0 | 21.84 | 18.95 | 21.10 | 34.77 | -13.67 |
| | 23155 | 712 5 | 610011 | 1 | 24 | 21.73 | 18.84 | 20.99 | 34.77 | -13.78 |
| | 23100 | 713.5 | 64QAM | 12 | 6 | 21.88 | 18.99 | 21.14 | 34.77 | -13.63 |
| | | | 25 | 0 | 21.74 | 18.85 | 21.00 | 34.77 | -13.77 | |

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Antenna gain (dRi)

| Antenna | LTE Band 12_Uplink frequency band : 699 to 716 MHz | | | | | | | | | | | |
|-------------|--|--------------------|-------------|------------|-----------------|-------------------|----------------|-----------------|----------------|----------------|--|--|
| | | | LIE Band | 17_Up | olink frequency | | | FIDD | FIDD | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average | ERP Average | EIRP Average | EIRP Limit | Margin (dB) | | |
| | | | | 1 | 0 | (dBm) 21.87 | (dBm) 18.98 | (dBm) 21.13 | (dBm) 34.77 | -13.64 | | |
| | | | | 1 | 49 | 21.87 | 19.02 | 21.13 | 34.77 | -13.64 | | |
| | 23060 | 704 | QPSK | 25 | 12 | 21.91 | 19.02 | 20.91 | 34.77 | -13.86 | | |
| | | | | 50 | 0 | 21.00 | 18.83 | 20.91 | 34.77 | -13.79 | | |
| | | | | 1 | 0 | 21.72 | 18.94 | 21.09 | 34.77 | -13.79 | | |
| | | | | 1 | 49 | 21.83 | 18.94 | 21.09 | 34.77 | -13.68 | | |
| | 23095 | 707.5 | QPSK | 25 | 12 | 21.63 | 18.74 | 20.89 | 34.77 | -13.88 | | |
| | | | | 50 | 0 | 21.66 | 18.77 | 20.89 | 34.77 | -13.85 | | |
| | | | | 1 | 0 | 21.96 | 19.07 | 21.22 | 34.77 | -13.55 | | |
| | | | | 1 | 49 | 21.94 | 19.05 | 21.20 | 34.77 | -13.57 | | |
| | 23130 | 711 | QPSK | 25 | 12 | 21.63 | 18.74 | 20.89 | 34.77 | -13.88 | | |
| | | | | 50 | 0 | 21.68 | 18.79 | 20.94 | 34.77 | -13.83 | | |
| | | | 16OAM | 1 | 0 | 21.73 | 18.84 | 20.99 | 34.77 | -13.78 | | |
| | | 0 704 | | 1 | 49 | 21.91 | 19.02 | 21.17 | 34.77 | -13.6 | | |
| | 23060 704 | 704 | 16QAM | 25 | 12 | 21.84 | 18.95 | 21.10 | 34.77 | -13.67 | | |
| | | | | 50 | 0 | 21.77 | 18.88 | 21.03 | 34.77 | -13.74 | | |
| | | | 1 | 0 | 21.84 | 18.95 | 21.10 | 34.77 | -13.67 | | | |
| | | | | 1 | 49 | 21.76 | 18.87 | 21.02 | 34.77 | -13.75 | | |
| 10 | 23095 | 707.5 | 16QAM | 25 | 12 | 21.82 | 18.93 | 21.08 | 34.77 | -13.69 | | |
| | | | | 50 | 0 | 21.90 | 19.01 | 21.16 | 34.77 | -13.61 | | |
| | | | | 1 | 0 | 21.74 | 18.85 | 21.00 | 34.77 | -13.77 | | |
| | 00400 | 74.4 | 4/0414 | 1 | 49 | 21.88 | 18.99 | 21.14 | 34.77 | -13.63 | | |
| | 23130 | 711 | 16QAM | 25 | 12 | 21.75 | 18.86 | 21.01 | 34.77 | -13.76 | | |
| | | | | 50 | 0 | 21.82 | 18.93 | 21.08 | 34.77 | -13.69 | | |
| | | | | 1 | 0 | 21.77 | 18.88 | 21.03 | 34.77 | -13.74 | | |
| | 220/0 | 704 | / 4 O A N A | 1 | 49 | 21.87 | 18.98 | 21.13 | 34.77 | -13.64 | | |
| | 23060 | 704 | 64QAM | 25 | 12 | 21.73 | 18.84 | 20.99 | 34.77 | -13.78 | | |
| | | | | 50 | 0 | 21.78 | 18.89 | 21.04 | 34.77 | -13.73 | | |
| | | | | 1 | 0 | 21.74 | 18.85 | 21.00 | 34.77 | -13.77 | | |
| | 23095 | 707.5 | 64QAM | 1 | 49 | 21.80 | 18.91 | 21.06 | 34.77 | -13.71 | | |
| | 23073 | 707.5 | 04QAIVI | 25 | 12 | 21.85 | 18.96 | 21.11 | 34.77 | -13.66 | | |
| | | | | 50 | 0 | 21.76 | 18.87 | 21.02 | 34.77 | -13.75 | | |
| | | | | 1 | 0 | 21.87 | 18.98 | 21.13 | 34.77 | -13.64 | | |
| | 23130 | 711 | 640011 | 1 | 49 | 21.74 | 18.85 | 21.00 | 34.77 | -13.77 | | |
| | 23130 | / 1 1 | 64QAM | 25 | 12 | 21.76 | 18.87 | 21.02 | 34.77 | -13.75 | | |
| | | | 50 | 0 | 21.79 | 18.90 | 21.05 | 34.77 | -13.72 | | | |

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| Antenna | gain (dBi) | -1.35 | | | | | | | | |
|---------|-------------|-----------|-------------|------|-----------|-----------|-----------------|---------|--------|--------|
| | | | LTE Band | 13_U | plink fre | | : 777 to 787 MF | | EIDD | |
| BW | UL | Frequency | NA 1 1 11 | RB | RB | Conducted | ERP | EIRP | EIRP | Margin |
| (MHz) | Channel | (MHz) | Modulation | Size | Offset | Average | Average | Average | Limit | (dB) |
| | | , , , , | | 1 | 0 | (dBm) | (dBm) | (dBm) | (dBm) | |
| | | | | 1 | 0 | 22.75 | 19.25 | 21.40 | 34.77 | -13.37 |
| | 23205 | 779.5 | QPSK | 1 | 24 | 22.85 | 19.35 | 21.50 | 34.77 | -13.27 |
| | | | | 12 | 6 | 22.79 | 19.29 | 21.44 | 34.77 | -13.33 |
| | | | | 25 | 0 | 22.78 | 19.28 | 21.43 | 34.77 | -13.34 |
| | | | | 1 | 0 | 22.80 | 19.30 | 21.45 | 34.77 | -13.32 |
| | 23230 | 782 | QPSK | 10 | 24 | 22.75 | 19.25 | 21.40 | 34.77 | -13.37 |
| | | | | 12 | 6 | 22.91 | 19.41 | 21.56 | 34.77 | -13.21 |
| | | | | 25 | 0 | 22.75 | 19.25 | 21.40 | 34.77 | -13.37 |
| | | | | 1 | 0 | 22.90 | 19.40 | 21.55 | 34.77 | -13.22 |
| | 23255 | 784.5 | QPSK | 1 | 24 | 22.84 | 19.34 | 21.49 | 34.77 | -13.28 |
| | | | | 12 | 6 | 22.91 | 19.41 | 21.56 | 34.77 | -13.21 |
| | | | | 25 | 0 | 22.82 | 19.32 | 21.47 | 34.77 | -13.3 |
| | | | | 1 | 0 | 22.81 | 19.31 | 21.46 | 34.77 | -13.31 |
| | 23205 779.5 | 16QAM | 1 | 24 | 22.77 | 19.27 | 21.42 | 34.77 | -13.35 | |
| | | 777.0 | TOQAW | 12 | 6 | 22.75 | 19.25 | 21.40 | 34.77 | -13.37 |
| | | | | 25 | 0 | 22.86 | 19.36 | 21.51 | 34.77 | -13.26 |
| | | | | 1 | 0 | 22.76 | 19.26 | 21.41 | 34.77 | -13.36 |
| 5 | 23230 | 782 | 16QAM | 1 | 24 | 22.76 | 19.26 | 21.41 | 34.77 | -13.36 |
| 3 | 23230 | 702 | TOCANI | 12 | 6 | 22.91 | 19.41 | 21.56 | 34.77 | -13.21 |
| | | | | 25 | 0 | 22.75 | 19.25 | 21.40 | 34.77 | -13.37 |
| | | | | 1 | 0 | 22.90 | 19.40 | 21.55 | 34.77 | -13.22 |
| | 23255 | 784.5 | 16QAM | 1 | 24 | 22.81 | 19.31 | 21.46 | 34.77 | -13.31 |
| | 23233 | 784.3 | TOQAIVI | 12 | 6 | 22.79 | 19.29 | 21.44 | 34.77 | -13.33 |
| | | | | 25 | 0 | 22.87 | 19.37 | 21.52 | 34.77 | -13.25 |
| | | | | 1 | 0 | 22.86 | 19.36 | 21.51 | 34.77 | -13.26 |
| | 22205 | 770 5 | 4 4 O A B A | 1 | 24 | 22.90 | 19.40 | 21.55 | 34.77 | -13.22 |
| | 23205 | 779.5 | 64QAM | 12 | 6 | 22.84 | 19.34 | 21.49 | 34.77 | -13.28 |
| | | | | 25 | 0 | 22.77 | 19.27 | 21.42 | 34.77 | -13.35 |
| | | | | 1 | 0 | 22.84 | 19.34 | 21.49 | 34.77 | -13.28 |
| | 2222 | 700 | (4000 | 1 | 24 | 22.86 | 19.36 | 21.51 | 34.77 | -13.26 |
| | 23230 | 782 | 64QAM | 12 | 6 | 22.82 | 19.32 | 21.47 | 34.77 | -13.3 |
| | | | | 25 | 0 | 22.76 | 19.26 | 21.41 | 34.77 | -13.36 |
| | | | | 1 | 0 | 22.81 | 19.31 | 21.46 | 34.77 | -13.31 |
| | 22255 | 7045 | (4000 | 1 | 24 | 22.84 | 19.34 | 21.49 | 34.77 | -13.28 |
| | 23255 | 784.5 | 64QAM | 12 | 6 | 22.74 | 19.24 | 21.39 | 34.77 | -13.38 |
| | | | | 25 | 0 | 22.82 | 19.32 | 21.47 | 34.77 | -13.3 |

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Antenna gain (dBi) -1.35

| | LTE Band 13_Uplink frequency band : 777 to 787 MHz | | | | | | | | | | | | |
|-------------|--|--------------------|----------------|------------|--------------|-------------------------------|-------------------------|--------------------------|------------------------|----------------|--|--|--|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) | | | |
| | | | | 1 | 0 | 22.95 | 19.45 | 21.60 | 34.77 | -13.17 | | | |
| | 23230 | 782 | QPSK | 1 | 49 | 22.99 | 19.49 | 21.64 | 34.77 | -13.13 | | | |
| | 23230 | 23230 /82 | QF3K | 25 | 12 | 22.96 | 19.46 | 21.61 | 34.77 | -13.16 | | | |
| | | | | 50 | 0 | 22.74 | 19.24 | 21.39 | 34.77 | -13.38 | | | |
| | | | | 1 | 0 | 22.30 | 18.80 | 20.95 | 34.77 | -13.82 | | | |
| 10 | 23230 | 782 | 16QAM | 1 | 49 | 22.24 | 18.74 | 20.89 | 34.77 | -13.88 | | | |
| 10 | 23230 | 702 | TOQAW | 25 | 12 | 22.93 | 19.43 | 21.58 | 34.77 | -13.19 | | | |
| | | | | 50 | 0 | 22.94 | 19.44 | 21.59 | 34.77 | -13.18 | | | |
| | | | | 1 | 0 | 22.70 | 19.20 | 21.35 | 34.77 | -13.42 | | | |
| | 23230 782 | 640AM | 1 | 49 | 22.84 | 19.34 | 21.49 | 34.77 | -13.28 | | | | |
| | | 702 | 64QAM – | 25 | 12 | 22.84 | 19.34 | 21.49 | 34.77 | -13.28 | | | |
| | | | | 50 | 0 | 22.76 | 19.26 | 21.41 | 34.77 | -13.36 | | | |



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1 25 Antonna gain (dDi)

| Antenna | Antenna gain (dBi) -1.35 LTE Band 14_Uplink frequency band : 788 to 798 MHz Conducted ERP EIRP EIRP | | | | | | | | | | | |
|-------------|---|--------------------|-------------|------------|--------------|---------------|------------------|------------------|----------------|----------------|--|--|
| | | | LIE Band | J 14_C | piink ire | | | | FIDD | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Average (dBm) | Average (dBm) | Average (dBm) | Limit (dBm) | Margin (dB) | | |
| | | | | 1 | 0 | 22.78 | 19.28 | 21.43 | 34.77 | -13.34 | | |
| | 22205 | 700 F | ODCK | 1 | 24 | 22.89 | 19.39 | 21.54 | 34.77 | -13.23 | | |
| | 23305 | 790.5 | QPSK | 12 | 6 | 22.85 | 19.35 | 21.50 | 34.77 | -13.27 | | |
| | | | | 25 | 0 | 22.77 | 19.27 | 21.42 | 34.77 | -13.35 | | |
| | | | | 1 | 0 | 22.78 | 19.28 | 21.43 | 34.77 | -13.34 | | |
| | 23330 | 793 | QPSK | 1 | 24 | 22.80 | 19.30 | 21.45 | 34.77 | -13.32 | | |
| | 23330 | 193 | QPSK | 12 | 6 | 22.94 | 19.44 | 21.59 | 34.77 | -13.18 | | |
| | | | | 25 | 0 | 22.90 | 19.40 | 21.55 | 34.77 | -13.22 | | |
| | | | | 1 | 0 | 22.84 | 19.34 | 21.49 | 34.77 | -13.28 | | |
| | 23355 | 795.5 | QPSK | 1 | 24 | 22.88 | 19.38 | 21.53 | 34.77 | -13.24 | | |
| | 23300 | 790.0 | QPSK | 12 | 6 | 22.94 | 19.44 | 21.59 | 34.77 | -13.18 | | |
| | | | | 25 | 0 | 22.75 | 19.25 | 21.40 | 34.77 | -13.37 | | |
| | | | | 1 | 0 | 22.76 | 19.26 | 21.41 | 34.77 | -13.36 | | |
| | 23305 790.5 | 700 5 | 16QAM | 1 | 24 | 22.91 | 19.41 | 21.56 | 34.77 | -13.21 | | |
| | | 770.3 | | 12 | 6 | 22.75 | 19.25 | 21.40 | 34.77 | -13.37 | | |
| | | | | 25 | 0 | 22.92 | 19.42 | 21.57 | 34.77 | -13.2 | | |
| | | | 16QAM | 1 | 0 | 22.94 | 19.44 | 21.59 | 34.77 | -13.18 | | |
| 5 | 23330 | 793 | | 1 | 24 | 22.86 | 19.36 | 21.51 | 34.77 | -13.26 | | |
| | 23330 | 775 | TOQAW | 12 | 6 | 22.92 | 19.42 | 21.57 | 34.77 | -13.2 | | |
| | | | | 25 | 0 | 22.90 | 19.40 | 21.55 | 34.77 | -13.22 | | |
| | | | | 1 | 0 | 22.81 | 19.31 | 21.46 | 34.77 | -13.31 | | |
| | 23355 | 795.5 | 16QAM | 1 | 24 | 22.87 | 19.37 | 21.52 | 34.77 | -13.25 | | |
| | 23333 | 773.3 | TOQAW | 12 | 6 | 22.77 | 19.27 | 21.42 | 34.77 | -13.35 | | |
| | | | | 25 | 0 | 22.79 | 19.29 | 21.44 | 34.77 | -13.33 | | |
| | | | | 1 | 0 | 22.75 | 19.25 | 21.40 | 34.77 | -13.37 | | |
| | 23305 | 790.5 | 64QAM | 1 | 24 | 22.77 | 19.27 | 21.42 | 34.77 | -13.35 | | |
| | 20000 | 7 70.0 | 01071111 | 12 | 6 | 22.80 | 19.30 | 21.45 | 34.77 | -13.32 | | |
| | | | | 25 | 0 | 22.78 | 19.28 | 21.43 | 34.77 | -13.34 | | |
| | | | | 1 | 0 | 22.92 | 19.42 | 21.57 | 34.77 | -13.2 | | |
| | 23330 | 793 | 64QAM | 1 | 24 | 22.91 | 19.41 | 21.56 | 34.77 | -13.21 | | |
| | 20000 | , , , , | 010/11/1 | 12 | 6 | 22.75 | 19.25 | 21.40 | 34.77 | -13.37 | | |
| | | | | 25 | 0 | 22.80 | 19.30 | 21.45 | 34.77 | -13.32 | | |
| | | | | 1 | 0 | 22.74 | 19.24 | 21.39 | 34.77 | -13.38 | | |
| | 23355 | 795.5 | 64QAM | 1 | 24 | 22.87 | 19.37 | 21.52 | 34.77 | -13.25 | | |
| | 20000 | , , , , , , | 0 1 Q/ 11VI | 12 | 6 | 22.90 | 19.40 | 21.55 | 34.77 | -13.22 | | |
| | | | | 25 | 0 | 22.77 | 19.27 | 21.42 | 34.77 | -13.35 | | |

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Antenna gain (dBi) -1.35

| Antenna | LTE Band 14_Uplink frequency band : 788 to 798 MHz | | | | | | | | | | | | |
|-------------|--|--------------------|------------|------------|--------------|-------------------------------|-------------------------|--------------------------|------------------------|----------------|--|--|--|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) | | | |
| | | | | 1 | 0 | 22.98 | 19.48 | 21.63 | 34.77 | -13.14 | | | |
| | 23330 | 793 | QPSK | 1 | 49 | 22.96 | 19.46 | 21.61 | 34.77 | -13.16 | | | |
| | 23330 | 193 | | 25 | 12 | 22.89 | 19.39 | 21.54 | 34.77 | -13.23 | | | |
| | | | | 50 | 0 | 22.91 | 19.41 | 21.56 | 34.77 | -13.21 | | | |
| | 23330 | 793 | 16QAM | 1 | 0 | 22.87 | 19.37 | 21.52 | 34.77 | -13.25 | | | |
| 10 | | | | 1 | 49 | 22.81 | 19.31 | 21.46 | 34.77 | -13.31 | | | |
| 10 | | | | 25 | 12 | 22.94 | 19.44 | 21.59 | 34.77 | -13.18 | | | |
| | | | | 50 | 0 | 22.78 | 19.28 | 21.43 | 34.77 | -13.34 | | | |
| | | 793 | 64QAM | 1 | 0 | 22.83 | 19.33 | 21.48 | 34.77 | -13.29 | | | |
| | 23330 | | | 1 | 49 | 22.79 | 19.29 | 21.44 | 34.77 | -13.33 | | | |
| | 23330 | 173 | | 25 | 12 | 22.83 | 19.33 | 21.48 | 34.77 | -13.29 | | | |
| | | | | 50 | 0 | 22.86 | 19.36 | 21.51 | 34.77 | -13.26 | | | |

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| Antenna | gain (dBi) | -0.74 | LTC D | 147 11 | . !! ! . . | | 74 / 1/11- | | | |
|-------------|---------------|--------------------|------------|------------|-------------------|-------------------------------|-------------------------|--------------------------|------------------------|----------------|
| | | | LIE Band | 11/_Up | olink frequency | y band : 704 to | | FIDD | LEIDD | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| | | | | 1 | 0 | 21.76 | 18.87 | 21.02 | 34.77 | -13.75 |
| | | | | 1 | 24 | 21.67 | 18.78 | 20.93 | 34.77 | -13.84 |
| | 23755 | 706.5 | QPSK | 12 | 6 | 21.63 | 18.74 | 20.89 | 34.77 | -13.88 |
| | | | | 25 | 0 | 21.77 | 18.88 | 21.03 | 34.77 | -13.74 |
| | | | | 1 | 0 | 21.76 | 18.87 | 21.02 | 34.77 | -13.75 |
| | 00700 | 74.0 | 00014 | 1 | 24 | 21.64 | 18.75 | 20.90 | 34.77 | -13.87 |
| | 23790 | 710 | QPSK | 12 | 6 | 21.66 | 18.77 | 20.92 | 34.77 | -13.85 |
| | | | | 25 | 0 | 21.74 | 18.85 | 21.00 | 34.77 | -13.77 |
| | | | | 1 | 0 | 21.81 | 18.92 | 21.07 | 34.77 | -13.7 |
| | 22025 | 710 5 | ODCK | 1 | 24 | 21.64 | 18.75 | 20.90 | 34.77 | -13.87 |
| | 23825 | 713.5 | QPSK | 12 | 6 | 21.66 | 18.77 | 20.92 | 34.77 | -13.85 |
| | | | | 25 | 0 | 21.73 | 18.84 | 20.99 | 34.77 | -13.78 |
| | 22755 | 706.5 | 16QAM | 1 | 0 | 21.63 | 18.74 | 20.89 | 34.77 | -13.88 |
| | | | | 1 | 24 | 21.75 | 18.86 | 21.01 | 34.77 | -13.76 |
| | 23755 | | | 12 | 6 | 21.73 | 18.84 | 20.99 | 34.77 | -13.78 |
| | | | | 25 | 0 | 21.70 | 18.81 | 20.96 | 34.77 | -13.8 |
| | 23790 | 710 | 16QAM | 1 | 0 | 21.77 | 18.88 | 21.03 | 34.77 | -13.74 |
| 5 | | | | 1 | 24 | 21.74 | 18.85 | 21.00 | 34.77 | -13.77 |
| 5 | | | | 12 | 6 | 21.73 | 18.84 | 20.99 | 34.77 | -13.78 |
| | | | | 25 | 0 | 21.65 | 18.76 | 20.91 | 34.77 | -13.86 |
| | | 713.5 | 16QAM | 1 | 0 | 21.75 | 18.86 | 21.01 | 34.77 | -13.76 |
| | 23825 | | | 1 | 24 | 21.76 | 18.87 | 21.02 | 34.77 | -13.75 |
| | 23023 | | | 12 | 6 | 21.78 | 18.89 | 21.04 | 34.77 | -13.73 |
| | | | | 25 | 0 | 21.75 | 18.86 | 21.01 | 34.77 | -13.76 |
| | | 706.5 | 64QAM | 1 | 0 | 21.70 | 18.81 | 20.96 | 34.77 | -13.81 |
| | 23755 | | | 1 | 24 | 21.77 | 18.88 | 21.03 | 34.77 | -13.74 |
| | 23700 | | | 12 | 6 | 21.80 | 18.91 | 21.06 | 34.77 | -13.7 |
| | | | | 25 | 0 | 21.82 | 18.93 | 21.08 | 34.77 | -13.69 |
| | | | | 1 | 0 | 21.77 | 18.88 | 21.03 | 34.77 | -13.74 |
| | 22700 | 710 | 64QAM | 1 | 24 | 21.79 | 18.90 | 21.05 | 34.77 | -13.72 |
| | 23790 | | | 12 | 6 | 21.63 | 18.74 | 20.89 | 34.77 | -13.88 |
| | | | | 25 | 0 | 21.81 | 18.92 | 21.07 | 34.77 | -13.7 |
| | | | | 1 | 0 | 21.74 | 18.85 | 21.00 | 34.77 | -13.7 |
| | 23825 | 713.5 | 64QAM | 1 | 24 | 21.63 | 18.74 | 20.89 | 34.77 | -13.88 |
| | 23023 | 713.0 | UACHIVI | 12 | 6 | 21.77 | 18.88 | 21.03 | 34.77 | -13.74 |
| | | | | 25 | 0 | 22.77 | 19.88 | 22.03 | 34.77 | -12.74 |

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Antenna gain (dRi) n 7/

| Antenna gain (dBi) -0.74 LTE Band 17_Uplink frequency band : 704 to 716 MHz | | | | | | | | | | | |
|--|---------|-----------|------------|------|--------|-----------|---------|---------|-------|--------|--|
| | | | LIL Dall | | | Conducted | ERP | EIRP | EIRP | | |
| BW | UL | Frequency | Modulation | RB | RB | Average | Average | Average | Limit | Margin | |
| (MHz) | Channel | (MHz) | | Size | Offset | (dBm) | (dBm) | (dBm) | (dBm) | (dB) | |
| | | | | 1 | 0 | 21.76 | 18.87 | 21.02 | 34.77 | -13.75 | |
| | 22700 | 700 | ODCK | 1 | 49 | 21.81 | 18.92 | 21.07 | 34.77 | -13.7 | |
| | 23780 | 709 | QPSK | 25 | 12 | 21.65 | 18.76 | 20.91 | 34.77 | -13.86 | |
| | | | | 50 | 0 | 21.57 | 18.68 | 20.83 | 34.77 | -13.94 | |
| | | | | 1 | 0 | 21.94 | 19.05 | 21.20 | 34.77 | -13.57 | |
| | 22700 | 710 | ODCK | 1 | 49 | 21.96 | 19.07 | 21.22 | 34.77 | -13.55 | |
| | 23790 | 710 | QPSK | 25 | 12 | 21.62 | 18.73 | 20.88 | 34.77 | -13.89 | |
| | | | | 50 | 0 | 21.67 | 18.78 | 20.93 | 34.77 | -13.84 | |
| | | | | 1 | 0 | 21.93 | 19.04 | 21.19 | 34.77 | -13.58 | |
| | 22000 | 711 | ODCK | 1 | 49 | 21.92 | 19.03 | 21.18 | 34.77 | -13.59 | |
| | 23800 | 711 | QPSK | 25 | 12 | 21.62 | 18.73 | 20.88 | 34.77 | -13.89 | |
| | | | | 50 | 0 | 21.64 | 18.75 | 20.90 | 34.77 | -13.87 | |
| | 23780 | 709 | 16QAM | 1 | 0 | 21.83 | 18.94 | 21.09 | 34.77 | -13.68 | |
| | | | | 1 | 49 | 21.70 | 18.81 | 20.96 | 34.77 | -13.81 | |
| | | | | 25 | 12 | 21.73 | 18.84 | 20.99 | 34.77 | -13.78 | |
| | | | | 50 | 0 | 21.77 | 18.88 | 21.03 | 34.77 | -13.74 | |
| | 23790 | 710 | 16QAM | 1 | 0 | 21.82 | 18.93 | 21.08 | 34.77 | -13.69 | |
| 10 | | | | 1 | 49 | 21.79 | 18.90 | 21.05 | 34.77 | -13.72 | |
| 10 | | | | 25 | 12 | 21.81 | 18.92 | 21.07 | 34.77 | -13.7 | |
| | | | | 50 | 0 | 21.82 | 18.93 | 21.08 | 34.77 | -13.69 | |
| | 23800 | 711 | 16QAM | 1 | 0 | 21.71 | 18.82 | 20.97 | 34.77 | -13.8 | |
| | | | | 1 | 49 | 21.65 | 18.76 | 20.91 | 34.77 | -13.86 | |
| | | | | 25 | 12 | 21.75 | 18.86 | 21.01 | 34.77 | -13.76 | |
| | | | | 50 | 0 | 21.79 | 18.90 | 21.05 | 34.77 | -13.72 | |
| | | 709 | 64QAM | 1 | 0 | 21.79 | 18.90 | 21.05 | 34.77 | -13.72 | |
| | 23780 | | | 1 | 49 | 21.81 | 18.92 | 21.07 | 34.77 | -13.7 | |
| | Z3/0U | | | 25 | 12 | 21.65 | 18.76 | 20.91 | 34.77 | -13.86 | |
| | | | | 50 | 0 | 21.66 | 18.77 | 20.92 | 34.77 | -13.85 | |
| | | | | 1 | 0 | 21.71 | 18.82 | 20.97 | 34.77 | -13.8 | |
| | 22700 | 710 | 64QAM | 1 | 49 | 21.72 | 18.83 | 20.98 | 34.77 | -13.79 | |
| | 23790 | | | 25 | 12 | 21.69 | 18.80 | 20.95 | 34.77 | -13.82 | |
| | | | | 50 | 0 | 21.83 | 18.94 | 21.09 | 34.77 | -13.68 | |
| | | | | 1 | 0 | 21.73 | 18.84 | 20.99 | 34.77 | -13.78 | |
| | 220NN | 711 | 64QAM | 1 | 49 | 21.70 | 18.81 | 20.96 | 34.77 | -13.81 | |
| | 23800 | /11 | U4QAIVI | 25 | 12 | 21.73 | 18.84 | 20.99 | 34.77 | -13.78 | |
| | | | | 50 | 0 | 21.84 | 18.95 | 21.10 | 34.77 | -13.67 | |

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| Antenna gain (dBi) | -0.02 |
|--------------------|-------|
|--------------------|-------|

| Antenna | gairi (abi) | -0.02 L 1 | TE Band 25_l | Jplink | frequen | cy 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 | 0 | 18.93 | 18.91 | 33 | -14.09 |
| | 2/047 | 1050.7 | ODCI | 1 | 5 | 18.87 | 18.85 | 33 | -14.15 |
| | 26047 | 1850.7 | QPSK | 3 | 2 | 18.90 | 18.88 | 33 | -14.12 |
| | | | | 6 | 0 | 18.85 | 18.83 | 33 | -14.17 |
| | | | | 1 | 0 | 18.93 | 18.91 | 33 | -14.09 |
| | 2/2/5 | 1000 F | ODCK | 1 | 5 | 18.92 | 18.90 | 33 | -14.1 |
| | 26365 | 1882.5 | QPSK | 3 | 2 | 18.91 | 18.89 | 33 | -14.11 |
| | | | | 6 | 0 | 18.90 | 18.88 | 33 | -14.12 |
| | | | | 1 | 0 | 18.90 | 18.88 | 33 | -14.12 |
| | 2//02 | 1014.0 | ODCI | 1 | 5 | 18.92 | 18.90 | 33 | -14.1 |
| | 26683 | 1914.3 | QPSK | 3 | 2 | 18.91 | 18.89 | 33 | -14.11 |
| | | | | 6 | 0 | 18.85 | 18.83 | 33 | -14.17 |
| | 26047 | 1850.7 | 16QAM | 1 | 0 | 18.93 | 18.91 | 33 | -14.09 |
| | | | | 1 | 5 | 18.94 | 18.92 | 33 | -14.08 |
| | | | | 3 | 2 | 18.93 | 18.91 | 33 | -14.09 |
| | | | | 6 | 0 | 18.91 | 18.89 | 33 | -14.11 |
| | 26365 | 1882.5 | 16QAM | 1 | 0 | 18.92 | 18.90 | 33 | -14.1 |
| 1 4 | | | | 1 | 5 | 18.92 | 18.90 | 33 | -14.1 |
| 1.4 | | | | 3 | 2 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 6 | 0 | 18.91 | 18.89 | 33 | -14.11 |
| | | 1914.3 | 16QAM | 1 | 0 | 18.92 | 18.90 | 33 | -14.1 |
| | 2//02 | | | 1 | 5 | 18.88 | 18.86 | 33 | -14.14 |
| | 26683 | | | 3 | 2 | 18.94 | 18.92 | 33 | -14.08 |
| | | | | 6 | 0 | 18.92 | 18.90 | 33 | -14.1 |
| | | | 64QAM | 1 | 0 | 18.89 | 18.87 | 33 | -14.13 |
| | 2/047 | 1850.7 | | 1 | 5 | 18.88 | 18.86 | 33 | -14.14 |
| | 26047 | | | 3 | 2 | 18.92 | 18.90 | 33 | -14.1 |
| | | | | 6 | 0 | 18.91 | 18.89 | 33 | -14.11 |
| | | | | 1 | 0 | 18.87 | 18.85 | 33 | -14.15 |
| | 2/2/5 | 1000 5 | / 40 ^ ^ 4 | 1 | 5 | 18.92 | 18.90 | 33 | -14.1 |
| | 26365 | 1882.5 | 64QAM | 3 | 2 | 18.87 | 18.85 | 33 | -14.15 |
| | | | | 6 | 0 | 18.91 | 18.89 | 33 | -14.11 |
| | | | | 1 | 0 | 18.94 | 18.92 | 33 | -14.08 |
| | 2//02 | 1014.2 | 44000 | 1 | 5 | 18.89 | 18.87 | 33 | -14.13 |
| | 26683 | 1914.3 | 64QAM | 3 | 2 | 18.86 | 18.84 | 33 | -14.16 |
| | | | | 6 | 0 | 18.89 | 18.87 | 33 | -14.13 |

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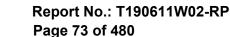


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Antenna dain (dRi) 0.02

| Antenna | gain (dBi) | -0.02 L 1 | TE Band 25 l | Jplink | freguen | cy 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 | 0 | 18.91 | 18.89 | 33 | -14.11 |
| | 26055 | 1851.5 | QPSK | 1 | 14 | 18.89 | 18.87 | 33 | -14.13 |
| | 20033 | 1031.3 | QISK | 8 | 4 | 18.90 | 18.88 | 33 | -14.12 |
| | | | | 15 | 0 | 18.90 | 18.88 | 33 | -14.12 |
| | | | | 1 | 0 | 18.84 | 18.82 | 33 | -14.18 |
| | 26365 | 1882.5 | QPSK | 1 | 14 | 18.89 | 18.87 | 33 | -14.13 |
| | 20303 | 1002.3 | QI SIX | 8 | 4 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 15 | 0 | 18.87 | 18.85 | 33 | -14.15 |
| | | | | 1 | 0 | 18.87 | 18.85 | 33 | -14.15 |
| | 26675 | 1913.5 | QPSK | 1 | 14 | 18.88 | 18.86 | 33 | -14.14 |
| | 20073 | 1713.3 | UP3K | 8 | 4 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 15 | 0 | 18.89 | 18.87 | 33 | -14.13 |
| | 26055 | 1851.5 | 16QAM | 1 | 0 | 18.91 | 18.89 | 33 | -14.11 |
| | | | | 1 | 14 | 18.92 | 18.90 | 33 | -14.1 |
| | | | | 8 | 4 | 18.85 | 18.83 | 33 | -14.17 |
| | | | | 15 | 0 | 18.92 | 18.90 | 33 | -14.1 |
| | 26365 | 1882.5 | 16QAM | 1 | 0 | 18.86 | 18.84 | 33 | -14.16 |
| 3 | | | | 1 | 14 | 18.87 | 18.85 | 33 | -14.15 |
| 3 | | | | 8 | 4 | 18.84 | 18.82 | 33 | -14.18 |
| | | | | 15 | 0 | 18.92 | 18.90 | 33 | -14.1 |
| | | 1913.5 | 16QAM | 1 | 0 | 18.87 | 18.85 | 33 | -14.15 |
| | 26675 | | | 1 | 14 | 18.84 | 18.82 | 33 | -14.18 |
| | 26675 | | | 8 | 4 | 18.85 | 18.83 | 33 | -14.17 |
| | | | | 15 | 0 | 18.85 | 18.83 | 33 | -14.17 |
| | | 1851.5 | 64QAM | 1 | 0 | 18.89 | 18.87 | 33 | -14.13 |
| | 26055 | | | 1 | 14 | 18.83 | 18.81 | 33 | -14.19 |
| | 20000 | | | 8 | 4 | 18.86 | 18.84 | 33 | -14.16 |
| | | | | 15 | 0 | 18.83 | 18.81 | 33 | -14.19 |
| | | | 64QAM | 1 | 0 | 18.85 | 18.83 | 33 | -14.17 |
| | 26365 | 1000 E | | 1 | 14 | 18.84 | 18.82 | 33 | -14.18 |
| | | 1882.5 | | 8 | 4 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 15 | 0 | 18.84 | 18.82 | 33 | -14.18 |
| | | | | 1 | 0 | 18.84 | 18.82 | 33 | -14.18 |
| | 26675 | 1913.5 | 64QAM | 1 | 14 | 18.91 | 18.89 | 33 | -14.11 |
| | ∠00/5 | 1713.3 | 04QAIVI | 8 | 4 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 15 | 0 | 18.83 | 18.81 | 33 | -14.19 |

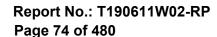
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| | | L7 | ΓE Band 25_l | Jplink | frequen | cy band : 1850 | to 1915 MHz | | |
|-------------|---------------|--------------------|--------------|------------|--------------|-------------------------------|--------------------------|------------------------|----------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| | | | | 1 | 0 | 18.91 | 18.89 | 33 | -14.11 |
| | 2/0/5 | 1050 5 | ODCI | 1 | 24 | 18.88 | 18.86 | 33 | -14.14 |
| | 26065 | 1852.5 | QPSK | 12 | 6 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 25 | 0 | 18.87 | 18.85 | 33 | -14.15 |
| | | | | 1 | 0 | 18.84 | 18.82 | 33 | -14.18 |
| | 2/2/5 | 1000 F | ODCK | 1 | 24 | 18.88 | 18.86 | 33 | -14.14 |
| | 26365 | 1882.5 | QPSK | 12 | 6 | 18.85 | 18.83 | 33 | -14.17 |
| | | | | 25 | 0 | 18.85 | 18.83 | 33 | -14.17 |
| | | | | 1 | 0 | 18.87 | 18.85 | 33 | -14.15 |
| | 2///5 | 1010 F | QPSK | 1 | 24 | 18.91 | 18.89 | 33 | -14.11 |
| | 26665 | 1912.5 | | 12 | 6 | 18.85 | 18.83 | 33 | -14.17 |
| | | | | 25 | 0 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 1 | 0 | 18.85 | 18.83 | 33 | -14.17 |
| | 2/0/5 | 1050 5 | 16QAM | 1 | 24 | 18.89 | 18.87 | 33 | -14.13 |
| | 26065 | 1852.5 | | 12 | 6 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 25 | 0 | 18.84 | 18.82 | 33 | -14.18 |
| | | | | 1 | 0 | 18.86 | 18.84 | 33 | -14.16 |
| F | 2/2/5 | 1000 F | 1/0414 | 1 | 24 | 18.90 | 18.88 | 33 | -14.12 |
| 5 | 26365 | 1882.5 | 16QAM | 12 | 6 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 25 | 0 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 1 | 0 | 18.85 | 18.83 | 33 | -14.17 |
| | 24445 | 1010 E | 140011 | 1 | 24 | 18.90 | 18.88 | 33 | -14.12 |
| | 26665 | 1912.5 | 16QAM | 12 | 6 | 18.90 | 18.88 | 33 | -14.12 |
| | | | | 25 | 0 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 1 | 0 | 18.85 | 18.83 | 33 | -14.17 |
| | 24045 | 10F2 F | (4 O A N 4 | 1 | 24 | 18.92 | 18.90 | 33 | -14.1 |
| | 26065 | 1852.5 | 64QAM | 12 | 6 | 18.89 | 18.87 | 33 | -14.13 |
| | | | | 25 | 0 | 18.92 | 18.90 | 33 | -14.1 |
| | | | | 1 | 0 | 18.83 | 18.81 | 33 | -14.19 |
| | 2/2/5 | 1002 5 | 44000 | 1 | 24 | 18.92 | 18.90 | 33 | -14.1 |
| | 26365 | 1882.5 64QAM | 04QAIVI | 12 | 6 | 18.85 | 18.83 | 33 | -14.17 |
| | | | - | 25 | 0 | 18.84 | 18.82 | 33 | -14.18 |
| | | | | 1 | 0 | 18.90 | 18.88 | 33 | -14.12 |
| | 24445 | 1010 5 | 440011 | 1 | 24 | 18.83 | 18.81 | 33 | -14.19 |
| | 26665 | 1912.5 | 64QAM | 12 | 6 | 18.85 | 18.83 | 33 | -14.17 |
| | | | | 25 | 0 | 18.89 | 18.87 | 33 | -14.13 |

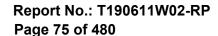
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| | | L7 | ΓE Band 25_l | Jplink | frequen | cy band : 1850 | to 1915 MHz | | |
|-------------|---------------|--------------------|----------------|------------|--------------|-------------------------------|--------------------------|------------------------|----------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| | | | | 1 | 0 | 18.85 | 18.83 | 33 | -14.17 |
| | 26090 | 1855 | QPSK | 1 | 49 | 18.86 | 18.84 | 33 | -14.16 |
| | 20090 | 1000 | UPSK | 25 | 12 | 18.91 | 18.89 | 33 | -14.11 |
| | | | | 50 | 0 | 18.89 | 18.87 | 33 | -14.13 |
| | | | | 1 | 0 | 18.89 | 18.87 | 33 | -14.13 |
| | 26365 | 1882.5 | QPSK | 1 | 49 | 18.91 | 18.89 | 33 | -14.11 |
| | 20300 | 1002.3 | UPSK | 25 | 12 | 18.87 | 18.85 | 33 | -14.15 |
| | | | | 50 | 0 | 18.87 | 18.85 | 33 | -14.15 |
| | | | | 1 | 0 | 18.92 | 18.90 | 33 | -14.1 |
| | 26640 | 1910 | QPSK | 1 | 49 | 18.84 | 18.82 | 33 | -14.18 |
| | 20040 | 1910 | | 25 | 12 | 18.87 | 18.85 | 33 | -14.15 |
| | | | | 50 | 0 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 1 | 0 | 18.84 | 18.82 | 33 | -14.18 |
| | 27,000 | 1055 | 16QAM - | 1 | 49 | 18.86 | 18.84 | 33 | -14.16 |
| | 26090 | 1855 | | 25 | 12 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 50 | 0 | 18.91 | 18.89 | 33 | -14.11 |
| | | | | 1 | 0 | 18.85 | 18.83 | 33 | -14.17 |
| 10 | 2/2/5 | 1000 F | 1/0414 | 1 | 49 | 18.86 | 18.84 | 33 | -14.16 |
| 10 | 26365 | 1882.5 | 16QAM | 25 | 12 | 18.92 | 18.90 | 33 | -14.1 |
| | | | | 50 | 0 | 18.85 | 18.83 | 33 | -14.17 |
| | | | | 1 | 0 | 18.86 | 18.84 | 33 | -14.16 |
| | 26640 | 1910 | 16QAM | 1 | 49 | 18.91 | 18.89 | 33 | -14.11 |
| | 20040 | 1910 | TOQAW | 25 | 12 | 18.83 | 18.81 | 33 | -14.19 |
| | | | | 50 | 0 | 18.86 | 18.84 | 33 | -14.16 |
| | | | | 1 | 0 | 18.87 | 18.85 | 33 | -14.15 |
| | 26090 | 1055 | 64QAM | 1 | 49 | 18.86 | 18.84 | 33 | -14.16 |
| | 20090 | 1855 | 04QAIVI | 25 | 12 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 50 | 0 | 18.90 | 18.88 | 33 | -14.12 |
| | | | | 1 | 0 | 18.92 | 18.90 | 33 | -14.1 |
| | 7424E | 1000 5 | 61011 | 1 | 49 | 18.86 | 18.84 | 33 | -14.16 |
| | 26365 | 1882.5 | 64QAM | 25 | 12 | 18.86 | 18.84 | 33 | -14.16 |
| | | | | 50 | 0 | 18.85 | 18.83 | 33 | -14.17 |
| | | | | 1 | 0 | 18.91 | 18.89 | 33 | -14.11 |
| | 26/40 | 1010 | (A O A B A | 1 | 49 | 18.83 | 18.81 | 33 | -14.19 |
| | 26640 | 1910 | 64QAM | 25 | 12 | 18.90 | 18.88 | 33 | -14.12 |
| | | | | 50 | 0 | 18.88 | 18.86 | 33 | -14.14 |

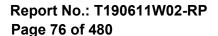
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| | | Lī | TE Band 25_l | Jplink | frequen | cy band : 1850 | to 1915 MHz | | |
|-------------|---------------|--------------------|--------------|------------|--------------|-------------------------------|--------------------------|------------------------|----------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| | | | | 1 | 0 | 18.87 | 18.85 | 33 | -14.15 |
| | 26115 | 1857.5 | QPSK | 1 | 74 | 18.88 | 18.86 | 33 | -14.14 |
| | 20113 | 1007.0 | UPSK | 36 | 18 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 75 | 0 | 18.87 | 18.85 | 33 | -14.15 |
| | | | | 1 | 0 | 18.90 | 18.88 | 33 | -14.12 |
| | 26365 | 1882.5 | QPSK | 1 | 74 | 18.90 | 18.88 | 33 | -14.12 |
| | 20303 | 1002.3 | UPSK | 36 | 18 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 75 | 0 | 18.85 | 18.83 | 33 | -14.17 |
| | | | QPSK | 1 | 0 | 18.86 | 18.84 | 33 | -14.16 |
| | 26615 | 1907.5 | | 1 | 74 | 18.93 | 18.91 | 33 | -14.09 |
| | 20013 | 1907.5 | | 36 | 18 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 75 | 0 | 18.87 | 18.85 | 33 | -14.15 |
| | | | | 1 | 0 | 18.91 | 18.89 | 33 | -14.11 |
| | 26115 | 1857.5 | 140011 | 1 | 74 | 18.87 | 18.85 | 33 | -14.15 |
| | 20115 | 1837.3 | 16QAM | 36 | 18 | 18.84 | 18.82 | 33 | -14.18 |
| | | | | 75 | 0 | 18.89 | 18.87 | 33 | -14.13 |
| | | | | 1 | 0 | 18.87 | 18.85 | 33 | -14.15 |
| 15 | 26365 | 1882.5 | 16QAM | 1 | 74 | 18.85 | 18.83 | 33 | -14.17 |
| 10 | 20303 | 1002.3 | TOQAW | 36 | 18 | 18.85 | 18.83 | 33 | -14.17 |
| | | | | 75 | 0 | 18.89 | 18.87 | 33 | -14.13 |
| | | | | 1 | 0 | 18.85 | 18.83 | 33 | -14.17 |
| | 26615 | 1907.5 | 16QAM | 1 | 74 | 18.91 | 18.89 | 33 | -14.11 |
| | 20013 | 1907.5 | TOQAW | 36 | 18 | 18.87 | 18.85 | 33 | -14.15 |
| | | | | 75 | 0 | 18.85 | 18.83 | 33 | -14.17 |
| | | | | 1 | 0 | 18.92 | 18.90 | 33 | -14.1 |
| | 26115 | 1857.5 | 64QAM | 1 | 74 | 18.93 | 18.91 | 33 | -14.09 |
| | 20113 | 1007.0 | 04QAIVI | 36 | 18 | 18.93 | 18.91 | 33 | -14.09 |
| | | | | 75 | 0 | 18.86 | 18.84 | 33 | -14.16 |
| | | | | 1 | 0 | 18.90 | 18.88 | 33 | -14.12 |
| | 26365 | 1882.5 | 64QAM | 1 | 74 | 18.86 | 18.84 | 33 | -14.16 |
| | 20300 | 1002.3 | U4QAIVI | 36 | 18 | 18.90 | 18.88 | 33 | -14.12 |
| | | | | 75 | 0 | 18.87 | 18.85 | 33 | -14.15 |
| | | | | 1 | 0 | 18.90 | 18.88 | 33 | -14.12 |
| | 26615 | 1907.5 | 64QAM | 1 | 74 | 18.84 | 18.82 | 33 | -14.18 |
| | 20013 | 1907.3 | 04QAIVI | 36 | 18 | 18.89 | 18.87 | 33 | -14.13 |
| | | | | 75 | 0 | 18.93 | 18.91 | 33 | -14.09 |

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| | | Lī | ΓE Band 25_l | Jplink | frequen | cy band : 1850 | to 1915 MHz | | |
|-------------|---------------|--------------------|----------------|------------|--------------|----------------------|-----------------|---------------|----------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average | EIRP Average | EIRP Limit | Margin (dB) |
| | | | | 1 | 0 | (dBm) 18.96 | (dBm) 18.94 | (dBm) 33 | -14.06 |
| | | | | 1 | 99 | 18.93 | 18.91 | 33 | -14.00 |
| | 26140 | 1860 | QPSK | 50 | 25 | 18.94 | 18.92 | 33 | -14.08 |
| | | | | 100 | 0 | 18.92 | 18.90 | 33 | -14.1 |
| | | | | 1 | 0 | 18.99 | 18.97 | 33 | -14.03 |
| | | | | 1 | 99 | 18.95 | 18.93 | 33 | -14.07 |
| | 26365 | 1882.5 | QPSK | 50 | 25 | 18.87 | 18.85 | 33 | -14.15 |
| | | | | 100 | 0 | 18.86 | 18.84 | 33 | -14.16 |
| | | | | 1 | 0 | 18.84 | 18.82 | 33 | -14.18 |
| | 0/500 | 1005 | ODCIV | 1 | 99 | 18.92 | 18.90 | 33 | -14.1 |
| | 26590 | 1905 | QPSK | 50 | 25 | 18.87 | 18.85 | 33 | -14.15 |
| | | | —— <u> </u> | 100 | 0 | 18.90 | 18.88 | 33 | -14.12 |
| | | | | 1 | 0 | 18.91 | 18.89 | 33 | -14.11 |
| | 2/1/0 | 10/0 | 140011 | 1 | 99 | 18.90 | 18.88 | 33 | -14.12 |
| | 26140 | 1860 | 16QAM | 50 | 25 | 18.85 | 18.83 | 33 | -14.17 |
| | | | 100 | 0 | 18.85 | 18.83 | 33 | -14.17 | |
| | | | | 1 | 0 | 18.88 | 18.86 | 33 | -14.14 |
| 20 | 26365 | 1882.5 | 16QAM | 1 | 99 | 18.92 | 18.90 | 33 | -14.1 |
| 20 | 20303 | 1002.3 | TOQAW | 50 | 25 | 18.93 | 18.91 | 33 | -14.09 |
| | | | | 100 | 0 | 18.91 | 18.89 | 33 | -14.11 |
| | | | | 1 | 0 | 18.94 | 18.92 | 33 | -14.08 |
| | 26590 | 1905 | 16QAM | 1 | 99 | 18.91 | 18.89 | 33 | -14.11 |
| | 20370 | 1700 | 10011111 | 50 | 25 | 18.91 | 18.89 | 33 | -14.11 |
| | | | | 100 | 0 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 1 | 0 | 18.91 | 18.89 | 33 | -14.11 |
| | 26140 | 1860 | 64QAM | 1 | 99 | 18.87 | 18.85 | 33 | -14.15 |
| | 20.10 | | 0 / C / | 50 | 25 | 18.85 | 18.83 | 33 | -14.17 |
| | | | | 100 | 0 | 18.86 | 18.84 | 33 | -14.16 |
| | | | | 1 | 0 | 18.92 | 18.90 | 33 | -14.1 |
| | 26365 | 1882.5 | 64QAM | 1 | 99 | 18.90 | 18.88 | 33 | -14.12 |
| | | - | | 50 | 25 | 18.90 | 18.88 | 33 | -14.12 |
| | | | | 100 | 0 | 18.88 | 18.86 | 33 | -14.14 |
| | | | | 1 | 0 | 18.85 | 18.83 | 33 | -14.17 |
| | 26590 | 1905 | 64QAM | 1 | 99 | 18.90 | 18.88 | 33 | -14.12 |
| | | | | 50 | 25 | 18.86 | 18.84 | 33 | -14.16 |
| | | | | 100 | 0 | 18.89 | 18.87 | 33 | -14.13 |

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| Antenna | gain (dBi) | -3 | LTE Band | d 26_Up | olink frequency | y band : 824 to | 849 MHz | | | |
|-------------|---------------|--------------------|-------------|------------|-----------------|-------------------------------|-------------------------|--------------------------|------------------------|----------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margir (dB) |
| | | | | 1 | 0 | 23.36 | 18.21 | 20.36 | 38.45 | -18.09 |
| | 26797 | 824.7 | QPSK | 1 | 5 | 23.32 | 18.17 | 20.32 | 38.45 | -18.13 |
| | 20/7/ | 024.7 | QFSK | 3 | 2 | 23.28 | 18.13 | 20.28 | 38.45 | -18.17 |
| | | | | 6 | 0 | 23.40 | 18.25 | 20.40 | 38.45 | -18.05 |
| | | | | 1 | 0 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 |
| | 26915 | 836.5 | QPSK | 1 | 5 | 23.42 | 18.27 | 20.42 | 38.45 | -18.03 |
| | 20713 | 030.3 | QI SIX | 3 | 2 | 23.25 | 18.10 | 20.25 | 38.45 | -18.2 |
| | | | | 6 | 0 | 23.43 | 18.28 | 20.43 | 38.45 | -18.02 |
| | | | | 1 | 0 | 23.38 | 18.23 | 20.38 | 38.45 | -18.07 |
| | 27033 | 848.3 | QPSK | 1 | 5 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 |
| | 27033 | 040.3 | QI SIX | 3 | 2 | 23.25 | 18.10 | 20.25 | 38.45 | -18.2 |
| | | | | 6 | 0 | 23.31 | 18.16 | 20.31 | 38.45 | -18.14 |
| | | | | 1 | 0 | 23.36 | 18.21 | 20.36 | 38.45 | -18.09 |
| | 26707 | 0217 | 16QAM | 1 | 5 | 23.28 | 18.13 | 20.28 | 38.45 | -18.1 |
| | 26797 824.7 | 024.7 | ΙουΑίνι | 3 | 2 | 23.40 | 18.25 | 20.40 | 38.45 | -18.0 |
| | | | 6 | 0 | 23.41 | 18.26 | 20.41 | 38.45 | -18.04 | |
| | | | | 1 | 0 | 23.39 | 18.24 | 20.39 | 38.45 | -18.06 |
| 1.4 | 26915 | 836.5 | 16QAM | 1 | 5 | 23.34 | 18.19 | 20.34 | 38.45 | -18.1 |
| 1.4 | 20910 | 830.3 | TOQAW | 3 | 2 | 23.31 | 18.16 | 20.31 | 38.45 | -18.1 |
| | | | | 6 | 0 | 23.28 | 18.13 | 20.28 | 38.45 | -18.1 |
| | | | | 1 | 0 | 23.44 | 18.29 | 20.44 | 38.45 | -18.0 |
| | 27033 | 848.3 | 16QAM | 1 | 5 | 23.35 | 18.20 | 20.35 | 38.45 | -18.1 |
| | 27033 | 040.3 | TOQAW | 3 | 2 | 23.29 | 18.14 | 20.29 | 38.45 | -18.16 |
| | | | | 6 | 0 | 23.41 | 18.26 | 20.41 | 38.45 | -18.0 |
| | | | | 1 | 0 | 23.29 | 18.14 | 20.29 | 38.45 | -18.1 |
| | 24707 | 0247 | 440011 | 1 | 5 | 23.28 | 18.13 | 20.28 | 38.45 | -18.1 |
| | 26797 | 824.7 | 64QAM | 3 | 2 | 23.36 | 18.21 | 20.36 | 38.45 | -18.09 |
| | | | | 6 | 0 | 23.32 | 18.17 | 20.32 | 38.45 | -18.13 |
| | | | | 1 | 0 | 23.41 | 18.26 | 20.41 | 38.45 | -18.04 |
| | 2/015 | 027.5 | 4 4 O A B 4 | 1 | 5 | 23.28 | 18.13 | 20.28 | 38.45 | -18.17 |
| | 26915 | 836.5 | 64QAM | 3 | 2 | 23.32 | 18.17 | 20.32 | 38.45 | -18.13 |
| | | | | 6 | 0 | 23.26 | 18.11 | 20.26 | 38.45 | -18.19 |
| | | | | 1 | 0 | 23.28 | 18.13 | 20.28 | 38.45 | -18.1 |
| | 07000 | 0.40.0 | (40.004 | 1 | 5 | 23.35 | 18.20 | 20.35 | 38.45 | -18.1 |
| | 27033 | 848.3 | 64QAM | 3 | 2 | 23.42 | 18.27 | 20.42 | 38.45 | -18.03 |
| | | | | 6 | 0 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |

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Antenna gain (dRi)

| Antenna | gain (dBi) | -3 | LTE Band | d 26_Ur | olink frequency | y band : 824 to | 849 MHz | | | |
|-------------|---------------|--------------------|------------|------------|-----------------|-------------------------|-------------------------|--------------------------|------------------------|----------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| | | | | 1 | 0 | 23.31 | 18.16 | 20.31 | 38.45 | -18.14 |
| | 26805 | 825.5 | QPSK | 1 | 14 | 23.32 | 18.17 | 20.32 | 38.45 | -18.13 |
| | 20000 | 023.3 | QPSK | 8 | 4 | 23.43 | 18.28 | 20.43 | 38.45 | -18.02 |
| | | | | 15 | 0 | 23.32 | 18.17 | 20.32 | 38.45 | -18.13 |
| | | | | 1 | 0 | 23.31 | 18.16 | 20.31 | 38.45 | -18.14 |
| | 26915 | 836.5 | QPSK | 1 | 14 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 |
| | 20910 | 030.3 | QPSK | 8 | 4 | 23.25 | 18.10 | 20.25 | 38.45 | -18.2 |
| | | | | 15 | 0 | 23.26 | 18.11 | 20.26 | 38.45 | -18.19 |
| | | | | 1 | 0 | 23.41 | 18.26 | 20.41 | 38.45 | -18.04 |
| | 27025 | 847.5 | QPSK | 1 | 14 | 23.35 | 18.20 | 20.35 | 38.45 | -18.1 |
| | 27025 | 847.3 | UPSK | 8 | 4 | 23.25 | 18.10 | 20.25 | 38.45 | -18.2 |
| | | | | 15 | 0 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 |
| | | | | 1 | 0 | 23.27 | 18.12 | 20.27 | 38.45 | -18.18 |
| | 2/005 | 025.5 | 16QAM | 1 | 14 | 23.29 | 18.14 | 20.29 | 38.45 | -18.16 |
| | 26805 | 5 825.5 | | 8 | 4 | 23.36 | 18.21 | 20.36 | 38.45 | -18.09 |
| | | | | 15 | 0 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 |
| | | | + | 1 | 0 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| 2 | 2/015 | 027.5 | 1/0414 | 1 | 14 | 23.35 | 18.20 | 20.35 | 38.45 | -18.1 |
| 3 | 26915 | 836.5 | 16QAM | 8 | 4 | 23.43 | 18.28 | 20.43 | 38.45 | -18.02 |
| | | | | 15 | 0 | 23.35 | 18.20 | 20.35 | 38.45 | -18.1 |
| | | | | 1 | 0 | 23.41 | 18.26 | 20.41 | 38.45 | -18.04 |
| | 27025 | 047.5 | 1/0414 | 1 | 14 | 23.27 | 18.12 | 20.27 | 38.45 | -18.18 |
| | 27025 | 847.5 | 16QAM | 8 | 4 | 23.39 | 18.24 | 20.39 | 38.45 | -18.06 |
| | | | | 15 | 0 | 23.32 | 18.17 | 20.32 | 38.45 | -18.13 |
| | | | | 1 | 0 | 23.24 | 18.09 | 20.24 | 38.45 | -18.21 |
| | 24005 | 025.5 | 44000 | 1 | 14 | 23.27 | 18.12 | 20.27 | 38.45 | -18.18 |
| | 26805 | 825.5 | 64QAM | 8 | 4 | 23.25 | 18.10 | 20.25 | 38.45 | -18.2 |
| | | | | 15 | 0 | 23.43 | 18.28 | 20.43 | 38.45 | -18.02 |
| | | | | 1 | 0 | 23.27 | 18.12 | 20.27 | 38.45 | -18.18 |
| | 24015 | 027 5 | 44000 | 1 | 14 | 23.25 | 18.10 | 20.25 | 38.45 | -18.2 |
| | 26915 836.5 | 64QAM | 8 | 4 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 | |
| | | | | 15 | 0 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 |
| | | | | 1 | 0 | 23.26 | 18.11 | 20.26 | 38.45 | -18.19 |
| | 27025 | 047.5 | (4000 | 1 | 14 | 23.41 | 18.26 | 20.41 | 38.45 | -18.04 |
| | 27025 | 847.5 | 64QAM | 8 | 4 | 23.32 | 18.17 | 20.32 | 38.45 | -18.13 |
| | | | | 15 | 0 | 23.24 | 18.09 | 20.24 | 38.45 | -18.21 |

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Antenna gain (dRi)

| Antenna | gain (dBi) | -3 | LTE Band | 1 26 Ur | olink frequency | y band : 824 to | 849 MHz | | | |
|-------------|---------------|--------------------|------------|------------|-----------------|-------------------------|-------------------------|--------------------------|------------------------|----------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| | | | | 1 | 0 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 |
| | 26815 | 826.5 | QPSK | 1 | 24 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 |
| | 20013 | 020.3 | QF3K | 12 | 6 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 |
| | | | | 25 | 0 | 23.33 | 18.18 | 20.33 | 38.45 | -18.12 |
| | | | | 1 | 0 | 23.40 | 18.25 | 20.40 | 38.45 | -18.05 |
| | 26915 | 836.5 | QPSK | 1 | 24 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| | 20713 | 030.3 | QLOK | 12 | 6 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| | | | | 25 | 0 | 23.40 | 18.25 | 20.40 | 38.45 | -18.05 |
| | | | | 1 | 0 | 23.25 | 18.10 | 20.25 | 38.45 | -18.2 |
| | 27015 | 846.5 | QPSK | 1 | 24 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 |
| | 27013 | 0.00 | QLOK | 12 | 6 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| | | | | 25 | 0 | 23.24 | 18.09 | 20.24 | 38.45 | -18.21 |
| | | | | 1 | 0 | 23.40 | 18.25 | 20.40 | 38.45 | -18.05 |
| | 26815 | 826.5 | 16∩ΔM | 1 | 24 | 23.35 | 18.20 | 20.35 | 38.45 | -18.1 |
| | 20013 | 26815 826.5 | 16QAM | 12 | 6 | 23.23 | 18.08 | 20.23 | 38.45 | -18.22 |
| | | | | 25 | 0 | 23.42 | 18.27 | 20.42 | 38.45 | -18.03 |
| | | | | 1 | 0 | 23.39 | 18.24 | 20.39 | 38.45 | -18.06 |
| 5 | 26915 | 836.5 | 16QAM | 1 | 24 | 23.26 | 18.11 | 20.26 | 38.45 | -18.19 |
| 5 | 20713 | 030.3 | TOQAW | 12 | 6 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 |
| | | | | 25 | 0 | 23.32 | 18.17 | 20.32 | 38.45 | -18.13 |
| | | | | 1 | 0 | 23.33 | 18.18 | 20.33 | 38.45 | -18.12 |
| | 27015 | 846.5 | 16QAM | 1 | 24 | 23.40 | 18.25 | 20.40 | 38.45 | -18.05 |
| | 27013 | 040.3 | TOQAW | 12 | 6 | 23.32 | 18.17 | 20.32 | 38.45 | -18.13 |
| | | | | 25 | 0 | 23.31 | 18.16 | 20.31 | 38.45 | -18.14 |
| | | | | 1 | 0 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 |
| | 26815 | 826.5 | 64QAM | 1 | 24 | 23.35 | 18.20 | 20.35 | 38.45 | -18.1 |
| | 20013 | 020.3 | 04QAIVI | 12 | 6 | 23.41 | 18.26 | 20.41 | 38.45 | -18.04 |
| | | | | 25 | 0 | 23.24 | 18.09 | 20.24 | 38.45 | -18.21 |
| | | | | 1 | 0 | 23.28 | 18.13 | 20.28 | 38.45 | -18.17 |
| | 26915 | 836.5 | 64QAM | 1 | 24 | 23.41 | 18.26 | 20.41 | 38.45 | -18.04 |
| | 20713 | 030.3 | U4QAW | 12 | 6 | 23.41 | 18.26 | 20.41 | 38.45 | -18.04 |
| | | | | 25 | 0 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 |
| | | | | 1 | 0 | 23.27 | 18.12 | 20.27 | 38.45 | -18.18 |
| | 27015 | 846.5 | 64QAM | 1 | 24 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 |
| | 27013 | 040.3 | 04QAIVI | 12 | 6 | 23.27 | 18.12 | 20.27 | 38.45 | -18.18 |
| | | | | 25 | 0 | 23.24 | 18.09 | 20.24 | 38.45 | -18.21 |

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Antenna gain (dRi)

| Antenna | gain (dBi) | -3 | LTF Band | 1 26 Hr | olink frequency | y band : 824 to | 849 MHz | | | |
|-------------|---------------|--------------------|-------------|------------|-----------------|-------------------------|-------------------------|--------------------------|------------------------|----------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| | | | | 1 | 0 | 23.39 | 18.24 | 20.39 | 38.45 | -18.06 |
| | 26840 | 829 | QPSK | 1 | 49 | 23.25 | 18.10 | 20.25 | 38.45 | -18.2 |
| | 20040 | 029 | QPSK | 25 | 12 | 23.24 | 18.09 | 20.24 | 38.45 | -18.21 |
| | | | | 50 | 0 | 23.29 | 18.14 | 20.29 | 38.45 | -18.16 |
| | | | | 1 | 0 | 23.40 | 18.25 | 20.40 | 38.45 | -18.05 |
| | 26915 | 836.5 | QPSK | 1 | 49 | 23.24 | 18.09 | 20.24 | 38.45 | -18.21 |
| | 20915 | 030.3 | QF3K | 25 | 12 | 23.31 | 18.16 | 20.31 | 38.45 | -18.14 |
| | | | | 50 | 0 | 23.24 | 18.09 | 20.24 | 38.45 | -18.21 |
| | | | | 1 | 0 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 |
| | 26990 | 844 | QPSK | 1 | 49 | 23.38 | 18.23 | 20.38 | 38.45 | -18.07 |
| | 20990 | 044 | QPSK | 25 | 12 | 23.31 | 18.16 | 20.31 | 38.45 | -18.14 |
| | | | | 50 | 0 | 23.35 | 18.20 | 20.35 | 38.45 | -18.1 |
| | | | | 1 | 0 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| | 24040 | 020 | 140011 | 1 | 49 | 23.36 | 18.21 | 20.36 | 38.45 | -18.09 |
| | 20040 | 26840 829 | 16QAM | 25 | 12 | 23.25 | 18.10 | 20.25 | 38.45 | -18.2 |
| | | | | 50 | 0 | 23.25 | 18.10 | 20.25 | 38.45 | -18.2 |
| | | | | 1 | 0 | 23.33 | 18.18 | 20.33 | 38.45 | -18.12 |
| 10 | 2/015 | 027.5 | 1/0414 | 1 | 49 | 23.40 | 18.25 | 20.40 | 38.45 | -18.05 |
| 10 | 26915 | 836.5 | 16QAM | 25 | 12 | 23.38 | 18.23 | 20.38 | 38.45 | -18.07 |
| | | | | 50 | 0 | 23.33 | 18.18 | 20.33 | 38.45 | -18.12 |
| | | | | 1 | 0 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 |
| | 2/000 | 044 | 1/0414 | 1 | 49 | 23.24 | 18.09 | 20.24 | 38.45 | -18.21 |
| | 26990 | 844 | 16QAM | 25 | 12 | 23.32 | 18.17 | 20.32 | 38.45 | -18.13 |
| | | | | 50 | 0 | 23.39 | 18.24 | 20.39 | 38.45 | -18.06 |
| | | | | 1 | 0 | 23.29 | 18.14 | 20.29 | 38.45 | -18.16 |
| | 2/040 | 020 | / 40 A N A | 1 | 49 | 23.25 | 18.10 | 20.25 | 38.45 | -18.2 |
| | 26840 | 829 | 64QAM | 25 | 12 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 |
| | | | | 50 | 0 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 |
| | | | | 1 | 0 | 23.33 | 18.18 | 20.33 | 38.45 | -18.12 |
| | 2/015 | 027.5 | 4 A O A B A | 1 | 49 | 23.41 | 18.26 | 20.41 | 38.45 | -18.04 |
| | 26915 | 836.5 | 64QAM | 25 | 12 | 23.31 | 18.16 | 20.31 | 38.45 | -18.14 |
| | | | | 50 | 0 | 23.40 | 18.25 | 20.40 | 38.45 | -18.05 |
| | | | | 1 | 0 | 23.33 | 18.18 | 20.33 | 38.45 | -18.12 |
| | 2/000 | 044 | (40 0 0 0 | 1 | 49 | 23.40 | 18.25 | 20.40 | 38.45 | -18.05 |
| | 26990 | 844 | 64QAM | 25 | 12 | 23.39 | 18.24 | 20.39 | 38.45 | -18.06 |
| | | | | 50 | 0 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 |

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Antenna gain (dRi)

| Antenna | gain (dBi) | -3 | I TF Ranc | 1 26 Hr | link frequency | y band : 824 to | 849 MH7 | | | |
|-------------|---------------|--------------------|------------|------------|----------------|-------------------------|-------------------------|--------------------------|------------------------|----------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| | | | | 1 | 0 | 23.44 | 18.29 | 20.44 | 38.45 | -18.01 |
| | 2/0/5 | 021 5 | ODCK | 1 | 74 | 23.49 | 18.34 | 20.49 | 38.45 | -17.96 |
| | 26865 | 831.5 | QPSK | 36 | 18 | 23.46 | 18.31 | 20.46 | 38.45 | -17.99 |
| | | | | 75 | 0 | 23.36 | 18.21 | 20.36 | 38.45 | -18.09 |
| | | | | 1 | 0 | 23.42 | 18.27 | 20.42 | 38.45 | -18.03 |
| | 26915 | 836.5 | QPSK | 1 | 74 | 23.46 | 18.31 | 20.46 | 38.45 | -17.99 |
| | 20915 | 830.3 | QPSK | 36 | 18 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| | | | | 75 | 0 | 23.49 | 18.34 | 20.49 | 38.45 | -17.96 |
| | | | | 1 | 0 | 23.47 | 18.32 | 20.47 | 38.45 | -17.98 |
| | 26965 | 841.5 | QPSK | 1 | 74 | 23.41 | 18.26 | 20.41 | 38.45 | -18.04 |
| | 20900 | 041.3 | QF3K | 36 | 18 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| | | | | 75 | 0 | 23.36 | 18.21 | 20.36 | 38.45 | -18.09 |
| | | | | 1 | 0 | 23.41 | 18.26 | 20.41 | 38.45 | -18.04 |
| | 26865 | 021 E | 16QAM | 1 | 74 | 23.41 | 18.26 | 20.41 | 38.45 | -18.04 |
| | 20003 | 831.5 | 16QAM | 36 | 18 | 23.31 | 18.16 | 20.31 | 38.45 | -18.14 |
| | | | | 75 | 0 | 23.31 | 18.16 | 20.31 | 38.45 | -18.14 |
| | | | | 1 | 0 | 23.33 | 18.18 | 20.33 | 38.45 | -18.12 |
| 15 | 26915 | 836.5 | 16QAM | 1 | 74 | 23.27 | 18.12 | 20.27 | 38.45 | -18.18 |
| 15 | 20713 | 030.3 | TOQAIVI | 36 | 18 | 23.44 | 18.29 | 20.44 | 38.45 | -18.01 |
| | | | | 75 | 0 | 23.32 | 18.17 | 20.32 | 38.45 | -18.13 |
| | | | | 1 | 0 | 23.40 | 18.25 | 20.40 | 38.45 | -18.05 |
| | 26965 | 841.5 | 16QAM | 1 | 74 | 23.39 | 18.24 | 20.39 | 38.45 | -18.06 |
| | 20703 | 041.5 | TOQAIVI | 36 | 18 | 23.39 | 18.24 | 20.39 | 38.45 | -18.06 |
| | | | | 75 | 0 | 23.29 | 18.14 | 20.29 | 38.45 | -18.16 |
| | | | | 1 | 0 | 23.33 | 18.18 | 20.33 | 38.45 | -18.12 |
| | 26865 | 831.5 | 64QAM | 1 | 74 | 23.34 | 18.19 | 20.34 | 38.45 | -18.11 |
| | 20003 | 001.0 | O+Q/ (IVI | 36 | 18 | 23.39 | 18.24 | 20.39 | 38.45 | -18.06 |
| | | | | 75 | 0 | 23.37 | 18.22 | 20.37 | 38.45 | -18.08 |
| | | | | 1 | 0 | 23.29 | 18.14 | 20.29 | 38.45 | -18.16 |
| | 26915 | 836.5 | 64QAM | 1 | 74 | 23.25 | 18.10 | 20.25 | 38.45 | -18.2 |
| | 20/10 | 030.5 | OTQAIVI | 36 | 18 | 23.30 | 18.15 | 20.30 | 38.45 | -18.15 |
| | | | | 75 | 0 | 23.44 | 18.29 | 20.44 | 38.45 | -18.01 |
| | | | | 1 | 0 | 23.33 | 18.18 | 20.33 | 38.45 | -18.12 |
| | 26965 | 841.5 | 64QAM | 1 | 74 | 23.40 | 18.25 | 20.40 | 38.45 | -18.05 |
| | 20703 | UT1.J | UTUAIN | 36 | 18 | 23.40 | 18.25 | 20.40 | 38.45 | -18.05 |
| | | | | 75 | 0 | 23.41 | 18.26 | 20.41 | 38.45 | -18.04 |

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| Antenna | gain (dBi) | -3 | ort ONS LITE | Dand | 26 Hali- | ak fraguanay h | and · 01/1 to 00 | 04 MU2 | | | |
|---------|------------|-----------|--------------|-------|----------|----------------|-------------------------|---------|-------|--------|----|
| | | | ait 905_LIE | | | Conducted | oand : 814 to 82 ERP | EIRP | EIRP | | |
| BW | UL | Frequency | Modulation | RB | RB | Average | Average | Average | Limit | Margin | |
| (MHz) | Channel | (MHz) | | Size | Offset | (dBm) | (dBm) | (dBm) | (dBm) | (dB) | |
| | | | | 1 | 0 | 23.34 | 18.19 | 20.34 | 50 | -29.66 | |
| | 2//07 | 0147 | ODCK | 1 | 5 | 23.33 | 18.18 | 20.33 | 50 | -29.67 | |
| | 26697 | 814.7 | QPSK | 3 | 2 | 23.29 | 18.14 | 20.29 | 50 | -29.71 | |
| | | | | 6 | 0 | 23.41 | 18.26 | 20.41 | 50 | -29.59 | |
| | | | | 1 | 0 | 23.36 | 18.21 | 20.36 | 50 | -29.64 | |
| | 26740 | 819 | QPSK | 1 | 5 | 23.38 | 18.23 | 20.38 | 50 | -29.62 | |
| | 20740 | 019 | QPSK | 3 | 2 | 23.27 | 18.12 | 20.27 | 50 | -29.73 | |
| | | | | 6 | 0 | 23.38 | 18.23 | 20.38 | 50 | -29.62 | |
| | | | | 1 | 0 | 23.37 | 18.22 | 20.37 | 50 | -29.63 | |
| | 26783 | 823.3 | QPSK | 1 | 5 | 23.31 | 18.16 | 20.31 | 50 | -29.69 | |
| | 20703 | 023.3 | QFSK | 3 | 2 | 23.26 | 18.11 | 20.26 | 50 | -29.74 | |
| | | | | 6 | 0 | 23.33 | 18.18 | 20.33 | 50 | -29.67 | |
| | | | | 1 | 0 | 23.34 | 18.19 | 20.34 | 50 | -29.66 | |
| | 26697 | 814.7 | 16QAM | 1 | 5 | 23.29 | 18.14 | 20.29 | 50 | -29.71 | |
| | 20077 | 014.7 | TOQAW | 3 | 2 | 23.38 | 18.23 | 20.38 | 50 | -29.62 | |
| | | | | 6 | 0 | 23.39 | 18.24 | 20.39 | 50 | -29.61 | |
| | | | 9 16OAM | 1 | 0 | 23.37 | 18.22 | 20.37 | 50 | -29.63 | |
| 1.4 | 26740 | 819 | | 16QAM | 16QAM | 1 | 5 | 23.35 | 18.20 | 20.35 | 50 |
| 1.4 | 20740 | 017 | TOQAWI | 3 | 2 | 23.29 | 18.14 | 20.29 | 50 | -29.71 | |
| | | | | 6 | 0 | 23.26 | 18.11 | 20.26 | 50 | -29.74 | |
| | | | | 1 | 0 | 23.40 | 18.25 | 20.40 | 50 | -29.6 | |
| | 26783 | 823.3 | 16QAM | 1 | 5 | 23.31 | 18.16 | 20.31 | 50 | -29.69 | |
| | 20703 | 023.3 | 10071111 | 3 | 2 | 23.28 | 18.13 | 20.28 | 50 | -29.72 | |
| | | | | 6 | 0 | 23.38 | 18.23 | 20.38 | 50 | -29.62 | |
| | | | | 1 | 0 | 23.27 | 18.12 | 20.27 | 50 | -29.73 | |
| | 26697 | 814.7 | 64QAM | 1 | 5 | 23.29 | 18.14 | 20.29 | 50 | -29.71 | |
| | 20077 | 011.7 | 01071111 | 3 | 2 | 23.34 | 18.19 | 20.34 | 50 | -29.66 | |
| | | | | 6 | 0 | 23.29 | 18.14 | 20.29 | 50 | -29.71 | |
| | | | | 1 | 0 | 23.37 | 18.22 | 20.37 | 50 | -29.63 | |
| | 26740 | 819 | 64QAM | 1 | 5 | 23.29 | 18.14 | 20.29 | 50 | -29.71 | |
| | 20, 10 | 017 | 5 1 G/ 11V1 | 3 | 2 | 23.28 | 18.13 | 20.28 | 50 | -29.72 | |
| | | | | 6 | 0 | 23.24 | 18.09 | 20.24 | 50 | -29.76 | |
| | | | | 1 | 0 | 23.26 | 18.11 | 20.26 | 50 | -29.74 | |
| | 26783 | 823.3 | 64QAM | 1 | 5 | 23.34 | 18.19 | 20.34 | 50 | -29.66 | |
| | 20100 | 020.0 | 0 1 Q/ ((V) | 3 | 2 | 23.41 | 18.26 | 20.41 | 50 | -29.59 | |
| | | | | 6 | 0 | 23.35 | 18.20 | 20.35 | 50 | -29.65 | |

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| Antenna | gain (dBi) | -3 F | Part 90S_LTE | Band | 26_Uplii | nk frequency b | and : 814 to 82 | 24 MHz | | | | | | | | | |
|-------------|---------------|--------------------|--------------|------------|--------------|-------------------------|-------------------------|--------------------------|------------------------|----------------|---|---|-------|-------|-------|----|--------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) | | | | | | | |
| | | | | 1 | 0 | 23.34 | 18.19 | 20.34 | 50 | -29.66 | | | | | | | |
| | 26705 | 815.5 | QPSK | 1 | 14 | 23.35 | 18.20 | 20.35 | 50 | -29.65 | | | | | | | |
| | 20703 | 010.0 | QPSK | 8 | 4 | 23.41 | 18.26 | 20.41 | 50 | -29.59 | | | | | | | |
| | | | | 15 | 0 | 23.29 | 18.14 | 20.29 | 50 | -29.71 | | | | | | | |
| | | | | 1 | 0 | 23.29 | 18.14 | 20.29 | 50 | -29.71 | | | | | | | |
| | 26740 | 819 | QPSK | 1 | 14 | 23.31 | 18.16 | 20.31 | 50 | -29.69 | | | | | | | |
| | 20740 | 017 | QI SIX | 8 | 4 | 23.26 | 18.11 | 20.26 | 50 | -29.74 | | | | | | | |
| | | | | 15 | 0 | 23.27 | 18.12 | 20.27 | 50 | -29.73 | | | | | | | |
| | | | | 1 | 0 | 23.38 | 18.23 | 20.38 | 50 | -29.62 | | | | | | | |
| | 26775 | 822.5 | QPSK | 1 | 14 | 23.36 | 18.21 | 20.36 | 50 | -29.64 | | | | | | | |
| | 20773 | 022.3 | QF 3K | 8 | 4 | 23.26 | 18.11 | 20.26 | 50 | -29.74 | | | | | | | |
| | | | | 15 | 0 | 23.28 | 18.13 | 20.28 | 50 | -29.72 | | | | | | | |
| | | | | 1 | 0 | 23.28 | 18.13 | 20.28 | 50 | -29.72 | | | | | | | |
| | 26705 | 815.5 | 16QAM | 1 | 14 | 23.28 | 18.13 | 20.28 | 50 | -29.72 | | | | | | | |
| | 20703 | 013.3 | TOQAW | 8 | 4 | 23.34 | 18.19 | 20.34 | 50 | -29.66 | | | | | | | |
| | | | 15 | 0 | 23.27 | 18.12 | 20.27 | 50 | -29.73 | | | | | | | | |
| | | | | 1 | 0 | 23.34 | 18.19 | 20.34 | 50 | -29.66 | | | | | | | |
| 3 | 26740 | 819 | 140AM | 1 | 14 | 23.33 | 18.18 | 20.33 | 50 | -29.67 | | | | | | | |
| 3 | 20740 | 019 | 16QAM | 16QAM | 16QAM | 16QAM | 16QAW | 16QAM | 16QAW | TOQAIVI | 8 | 4 | 23.41 | 18.26 | 20.41 | 50 | -29.59 |
| | | | | 15 | 0 | 23.32 | 18.17 | 20.32 | 50 | -29.68 | | | | | | | |
| | | | | 1 | 0 | 23.38 | 18.23 | 20.38 | 50 | -29.62 | | | | | | | |
| | 26775 | 822.5 | 16QAM | 1 | 14 | 23.24 | 18.09 | 20.24 | 50 | -29.76 | | | | | | | |
| | 20773 | 022.3 | TOQAW | 8 | 4 | 23.34 | 18.19 | 20.34 | 50 | -29.66 | | | | | | | |
| | | | | 15 | 0 | 23.29 | 18.14 | 20.29 | 50 | -29.71 | | | | | | | |
| | | | | 1 | 0 | 23.21 | 18.06 | 20.21 | 50 | -29.79 | | | | | | | |
| | 26705 | 815.5 | 64QAM | 1 | 14 | 23.28 | 18.13 | 20.28 | 50 | -29.72 | | | | | | | |
| | 20703 | 013.3 | 04QAIVI | 8 | 4 | 23.26 | 18.11 | 20.26 | 50 | -29.74 | | | | | | | |
| | | | | 15 | 0 | 23.38 | 18.23 | 20.38 | 50 | -29.62 | | | | | | | |
| | | | | 1 | 0 | 23.24 | 18.09 | 20.24 | 50 | -29.76 | | | | | | | |
| | 26740 | 819 | 64QAM | 1 | 14 | 23.23 | 18.08 | 20.23 | 50 | -29.77 | | | | | | | |
| | 20740 | 017 | 04QAIVI | 8 | 4 | 23.31 | 18.16 | 20.31 | 50 | -29.69 | | | | | | | |
| | | | | 15 | 0 | 23.28 | 18.13 | 20.28 | 50 | -29.72 | | | | | | | |
| | | | | 1 | 0 | 23.25 | 18.10 | 20.25 | 50 | -29.75 | | | | | | | |
| | 24775 | 022.5 | 4 A O A B A | 1 | 14 | 23.37 | 18.22 | 20.37 | 50 | -29.63 | | | | | | | |
| | 26775 | 822.5 | 64QAM | 8 | 4 | 23.28 | 18.13 | 20.28 | 50 | -29.72 | | | | | | | |
| | | | | 15 | 0 | 23.21 | 18.06 | 20.21 | 50 | -29.79 | | | | | | | |

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| Antenna | gain (dBi) | -3 F | Part 90S_LTE | Band | 26_Upli | nk frequency b | oand : 814 to 82 | 24 MHz | | |
|-------------|---------------|--------------------|--------------|------------|--------------|-------------------------|-------------------------|--------------------------|------------------------|----------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margir (dB) |
| | | | | 1 | 0 | 23.25 | 18.10 | 20.25 | 50 | -29.75 |
| | 26715 | 816.5 | QPSK | 1 | 24 | 23.31 | 18.16 | 20.31 | 50 | -29.69 |
| | 20/13 | 010.5 | QFSK | 12 | 6 | 23.33 | 18.18 | 20.33 | 50 | -29.67 |
| | | | | 25 | 0 | 23.31 | 18.16 | 20.31 | 50 | -29.69 |
| | | | | 1 | 0 | 23.35 | 18.20 | 20.35 | 50 | -29.65 |
| | 26740 | 819 | QPSK | 1 | 24 | 23.32 | 18.17 | 20.32 | 50 | -29.68 |
| | 20740 | 017 | QI SIX | 12 | 6 | 23.34 | 18.19 | 20.34 | 50 | -29.66 |
| | | | | 25 | 0 | 23.38 | 18.23 | 20.38 | 50 | -29.62 |
| | | | | 1 | 0 | 23.28 | 18.13 | 20.28 | 50 | -29.72 |
| | 26765 | 821.5 | QPSK | 1 | 24 | 23.35 | 18.20 | 20.35 | 50 | -29.65 |
| | 20703 | 021.3 | QFSK | 12 | 6 | 23.38 | 18.23 | 20.38 | 50 | -29.62 |
| | | | | 25 | 0 | 23.25 | 18.10 | 20.25 | 50 | -29.75 |
| | | | | 1 | 0 | 23.34 | 18.19 | 20.34 | 50 | -29.66 |
| | 26715 | 816.5 | 16QAM | 1 | 24 | 23.31 | 18.16 | 20.31 | 50 | -29.69 |
| | 20/13 | 810.3 | TOUAIVI | 12 | 6 | 23.28 | 18.13 | 20.28 | 50 | -29.72 |
| | | | | 25 | 0 | 23.34 | 18.19 | 20.34 | 50 | -29.66 |
| | | | | 1 | 0 | 23.34 | 18.19 | 20.34 | 50 | -29.66 |
| 5 | 26740 | 819 | 16QAM | 1 | 24 | 23.24 | 18.09 | 20.24 | 50 | -29.76 |
| 3 | 20740 | 019 | TOQAW | 12 | 6 | 23.31 | 18.16 | 20.31 | 50 | -29.69 |
| | | | | 25 | 0 | 23.28 | 18.13 | 20.28 | 50 | -29.72 |
| | | | | 1 | 0 | 23.28 | 18.13 | 20.28 | 50 | -29.72 |
| | 26765 | 821.5 | 16QAM | 1 | 24 | 23.34 | 18.19 | 20.34 | 50 | -29.66 |
| | 20703 | 021.3 | TOQAW | 12 | 6 | 23.28 | 18.13 | 20.28 | 50 | -29.72 |
| | | | | 25 | 0 | 23.27 | 18.12 | 20.27 | 50 | -29.73 |
| | | | | 1 | 0 | 23.25 | 18.10 | 20.25 | 50 | -29.75 |
| | 26715 | 816.5 | 64QAM | 1 | 24 | 23.31 | 18.16 | 20.31 | 50 | -29.69 |
| | 20/13 | 010.3 | 04QAIVI | 12 | 6 | 23.34 | 18.19 | 20.34 | 50 | -29.66 |
| | | | | 25 | 0 | 23.21 | 18.06 | 20.21 | 50 | -29.79 |
| | | | | 1 | 0 | 23.26 | 18.11 | 20.26 | 50 | -29.74 |
| | 26740 | 819 | 64QAM | 1 | 24 | 23.38 | 18.23 | 20.38 | 50 | -29.62 |
| | 20/40 | 017 | U4QAIVI | 12 | 6 | 23.39 | 18.24 | 20.39 | 50 | -29.61 |
| | | | | 25 | 0 | 23.28 | 18.13 | 20.28 | 50 | -29.72 |
| | | | | 1 | 0 | 23.28 | 18.13 | 20.28 | 50 | -29.72 |
| | 24745 | 821.5 | 64QAM | 1 | 24 | 23.29 | 18.14 | 20.29 | 50 | -29.7 |
| | 26765 | 021.3 | 04QAIVI | 12 | 6 | 23.24 | 18.09 | 20.24 | 50 | -29.76 |
| | | | | 25 | 0 | 23.25 | 18.10 | 20.25 | 50 | -29.75 |

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Antenna gain (dBi) -3

| Antonia | yairi (ubi) | -ე Г | Part 90S TTF | Rand | 26 Unli | nk frequency h | and : 814 to 82 | 24 MHz | | |
|-------------|---------------|--------------------|--------------|------------|--------------|-------------------------|-------------------------|--------------------------|------------------------|----------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| | | | | 1 | 0 | 23.35 | 18.20 | 20.35 | 50 | -29.65 |
| | 26740 | 819 | QPSK | 1 | 49 | 23.23 | 18.08 | 20.23 | 50 | -29.77 |
| | 20740 | 019 | UPSK | 25 | 12 | 23.29 | 18.14 | 20.29 | 50 | -29.71 |
| | | | | 50 | 0 | 23.22 | 18.07 | 20.22 | 50 | -29.78 |
| | | | | 1 | 0 | 23.34 | 18.19 | 20.34 | 50 | -29.66 |
| 10 | 26740 | 819 | 16QAM | 1 | 49 | 23.21 | 18.06 | 20.21 | 50 | -29.79 |
| 10 | 20740 | 017 | TOQAW | 25 | 12 | 23.24 | 18.09 | 20.24 | 50 | -29.76 |
| | | | | 50 | 0 | 23.19 | 18.04 | 20.19 | 50 | -29.81 |
| | | | | 1 | 0 | 23.31 | 18.16 | 20.31 | 50 | -29.69 |
| | 26740 | 819 | 64QAM | 1 | 49 | 23.18 | 18.03 | 20.18 | 50 | -29.82 |
| | 20740 | 019 | 04QAW | 25 | 12 | 23.21 | 18.06 | 20.21 | 50 | -29.79 |
| | | | | 50 | 0 | 23.14 | 17.99 | 20.14 | 50 | -29.86 |

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Antonna gain (dRi)

| Antenna | gain (dBi) | 0.44 | FF D 100 : | | | | - 8.41.1 | | |
|-------------|---------------|--------------------|-------------|------------|---------------|-------------------------------|--------------------------|------------------------|----------------|
| | | L1 | E Band 30_l | Jplink fi | requency band | d : 2305 to 2315 | | EIDD | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| | | | | 1 | 0 | 17.33 | 17.77 | 24 | -6.23 |
| | 27685 | 2307.5 | QPSK | 1 | 24 | 17.28 | 17.72 | 24 | -6.28 |
| | 27000 | 2307.3 | QPSK | 12 | 6 | 17.32 | 17.76 | 24 | -6.24 |
| | | | | 25 | 0 | 17.33 | 17.77 | 24 | -6.23 |
| | | | | 1 | 0 | 17.40 | 17.84 | 24 | -6.16 |
| | 27710 | 2310 | QPSK | 1 | 24 | 17.28 | 17.72 | 24 | -6.28 |
| | 27710 | 2310 | QPSK | 12 | 6 | 17.37 | 17.81 | 24 | -6.19 |
| | | | | 25 | 0 | 17.30 | 17.74 | 24 | -6.26 |
| | | | | 1 | 0 | 17.25 | 17.69 | 24 | -6.31 |
| | 27735 | 2312.5 | QPSK | 1 | 24 | 17.36 | 17.80 | 24 | -6.2 |
| | 21133 | 2312.3 | UPSK | 12 | 6 | 17.37 | 17.81 | 24 | -6.19 |
| | | | | 25 | 0 | 17.35 | 17.79 | 24 | -6.21 |
| | | | | 1 | 0 | 17.40 | 17.84 | 24 | -6.16 |
| | 27685 | 2307.5 | 16QAM | 1 | 24 | 17.38 | 17.82 | 24 | -6.18 |
| | 27000 | 2307.3 | TOQAIVI | 12 | 6 | 17.24 | 17.68 | 24 | -6.32 |
| | | | | 25 | 0 | 17.30 | 17.74 | 24 | -6.26 |
| | | | | 1 | 0 | 17.27 | 17.71 | 24 | -6.29 |
| 5 | 27710 | 2310 | 16QAM | 1 | 24 | 17.30 | 17.74 | 24 | -6.26 |
| 3 | 27710 | 2310 | TOQAIVI | 12 | 6 | 17.39 | 17.83 | 24 | -6.17 |
| | | | | 25 | 0 | 17.34 | 17.78 | 24 | -6.22 |
| | | | | 1 | 0 | 17.34 | 17.78 | 24 | -6.22 |
| | 27735 | 2312.5 | 16QAM | 1 | 24 | 17.42 | 17.86 | 24 | -6.14 |
| | 21133 | 2312.3 | TOQAW | 12 | 6 | 17.28 | 17.72 | 24 | -6.28 |
| | | | | 25 | 0 | 17.42 | 17.86 | 24 | -6.14 |
| | | | | 1 | 0 | 17.32 | 17.76 | 24 | -6.24 |
| | 27685 | 2307.5 | 64QAM | 1 | 24 | 17.33 | 17.77 | 24 | -6.23 |
| | 27000 | 2307.3 | 04QAIVI | 12 | 6 | 17.29 | 17.73 | 24 | -6.27 |
| | | | | 25 | 0 | 17.30 | 17.74 | 24 | -6.26 |
| | | | | 1 | 0 | 17.41 | 17.85 | 24 | -6.15 |
| | 27710 | 2210 | 64000 | 1 | 24 | 17.33 | 17.77 | 24 | -6.23 |
| | 27710 | 2310 | 64QAM | 12 | 6 | 17.35 | 17.79 | 24 | -6.21 |
| | | | | 25 | 0 | 17.42 | 17.86 | 24 | -6.14 |
| | | | | 1 | 0 | 17.35 | 17.79 | 24 | -6.21 |
| | 27725 | 2212 E | 4 A O A B A | 1 | 24 | 17.24 | 17.68 | 24 | -6.32 |
| | 27735 | 2312.5 | 64QAM | 12 | 6 | 17.27 | 17.71 | 24 | -6.29 |
| | | | | 25 | 0 | 17.28 | 17.72 | 24 | -6.28 |

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Antenna gain (dBi) 0.44

| rancornia | | Lī | TE Band 30_U | Jplink f | requency band | d : 2305 to 231 | 5 MHz | | |
|-------------|---------------|--------------------|--------------|------------|---------------|-------------------------------|--------------------------|------------------------|----------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| | | | | 1 | 0 | 17.48 | 17.92 | 24 | -6.08 |
| | 27710 | 2310 | QPSK | 1 | 49 | 17.44 | 17.88 | 24 | -6.12 |
| | 21110 | 2310 | QPSK | 25 | 12 | 17.24 | 17.68 | 24 | -6.32 |
| | | | | 50 | 0 | 17.25 | 17.69 | 24 | -6.31 |
| | | | | 1 | 0 | 17.36 | 17.80 | 24 | -6.2 |
| 10 | 27710 | 2310 | 16QAM | 1 | 49 | 17.42 | 17.86 | 24 | -6.14 |
| 10 | 27710 | 2310 | TOQAIVI | 25 | 12 | 17.34 | 17.78 | 24 | -6.22 |
| | | | | 50 | 0 | 17.34 | 17.78 | 24 | -6.22 |
| | | | | 1 | 0 | 17.38 | 17.82 | 24 | -6.18 |
| | 27710 | 2310 | 64QAM | 1 | 49 | 17.33 | 17.77 | 24 | -6.23 |
| | 21110 | 2310 | 04QAIVI | 25 | 12 | 17.31 | 17.75 | 24 | -6.25 |
| | | | | 50 | 0 | 17.37 | 17.81 | 24 | -6.19 |

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Antenna dain (dRi) Λ 27

| чистна | gain (dBi) | -0.37 L 1 | ΓE Band 38_l | Jplink | frequen | cy 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) |
| | | | | 1 | 0 | 17.72 | 17.35 | 33 | -15.65 |
| | 37775 | 2572.5 | QPSK | 1 | 24 | 17.64 | 17.27 | 33 | -15.73 |
| | 3///3 | 2372.3 | QPSK | 12 | 6 | 17.70 | 17.33 | 33 | -15.67 |
| | | | | 25 | 0 | 17.82 | 17.45 | 33 | -15.55 |
| | | | | 1 | 0 | 17.68 | 17.31 | 33 | -15.69 |
| | 38000 | 2595 | QPSK | 1 | 24 | 17.64 | 17.27 | 33 | -15.73 |
| | 36000 | 2090 | UPSK | 12 | 6 | 17.72 | 17.35 | 33 | -15.65 |
| | | | | 25 | 0 | 17.79 | 17.42 | 33 | -15.58 |
| | | | | 1 | 0 | 17.79 | 17.42 | 33 | -15.58 |
| | 38225 | 2617.5 | QPSK | 1 | 24 | 17.73 | 17.36 | 33 | -15.64 |
| | 30223 | 2017.3 | UPSK | 12 | 6 | 17.72 | 17.35 | 33 | -15.65 |
| | | | | 25 | 0 | 17.77 | 17.40 | 33 | -15.6 |
| | | | | 1 | 0 | 17.72 | 17.35 | 33 | -15.65 |
| | 37775 | 2572.5 | 16QAM | 1 | 24 | 17.82 | 17.45 | 33 | -15.55 |
| | 3///3 | 2372.3 | TOQAW | 12 | 6 | 17.70 | 17.33 | 33 | -15.67 |
| | | | | 25 | 0 | 17.74 | 17.37 | 33 | -15.63 |
| | | | | 1 | 0 | 17.81 | 17.44 | 33 | -15.56 |
| Е | 20000 | 2505 | 1/ 0 1 1 1 | 1 | 24 | 17.75 | 17.38 | 33 | -15.62 |
| 5 | 38000 | 2595 | 16QAM | 12 | 6 | 17.76 | 17.39 | 33 | -15.61 |
| | | | | 25 | 0 | 17.72 | 17.35 | 33 | -15.65 |
| | | | | 1 | 0 | 17.83 | 17.46 | 33 | -15.54 |
| | 20225 | 2/17 5 | 1/0414 | 1 | 24 | 17.75 | 17.38 | 33 | -15.62 |
| | 38225 | 2617.5 | 16QAM | 12 | 6 | 17.79 | 17.42 | 33 | -15.58 |
| | | | | 25 | 0 | 17.79 | 17.42 | 33 | -15.58 |
| | | | | 1 | 0 | 17.70 | 17.33 | 33 | -15.67 |
| | 07775 | 0570.5 | (4000 | 1 | 24 | 17.67 | 17.30 | 33 | -15.7 |
| | 37775 | 2572.5 | 64QAM | 12 | 6 | 17.68 | 17.31 | 33 | -15.69 |
| | | | | 25 | 0 | 17.78 | 17.41 | 33 | -15.59 |
| | | | | 1 | 0 | 17.64 | 17.27 | 33 | -15.73 |
| | 22222 | 0505 | / 40 *** | 1 | 24 | 17.72 | 17.35 | 33 | -15.65 |
| | 38000 | 2595 | 64QAM | 12 | 6 | 17.73 | 17.36 | 33 | -15.64 |
| | | | | 25 | 0 | 17.68 | 17.31 | 33 | -15.69 |
| | | | | 1 | 0 | 17.77 | 17.40 | 33 | -15.6 |
| | 00005 | 0/47.5 | (40.554 | 1 | 24 | 17.74 | 17.37 | 33 | -15.63 |
| | 38225 | 2617.5 | 64QAM | 12 | 6 | 17.73 | 17.36 | 33 | -15.64 |
| | | | | 25 | 0 | 17.71 | 17.34 | 33 | -15.66 |

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Antenna dain (dRi) Λ 27

| ниенна | gain (dBi) | -0.37 L 1 | ΓE Band 38_l | Jplink | frequen | cy 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) |
| | | | | 1 | 0 | 17.83 | 17.46 | 33 | -15.54 |
| | 27000 | 2575 | QPSK | 1 | 49 | 17.68 | 17.31 | 33 | -15.69 |
| | 37800 | 2575 | QP3K | 25 | 12 | 17.70 | 17.33 | 33 | -15.67 |
| | | | | 50 | 0 | 17.81 | 17.44 | 33 | -15.56 |
| | | | | 1 | 0 | 17.80 | 17.43 | 33 | -15.57 |
| | 38000 | 2595 | QPSK | 1 | 49 | 17.82 | 17.45 | 33 | -15.55 |
| | 36000 | 2090 | UPSK | 25 | 12 | 17.68 | 17.31 | 33 | -15.69 |
| | | | | 50 | 0 | 17.70 | 17.33 | 33 | -15.67 |
| | | | | 1 | 0 | 17.67 | 17.30 | 33 | -15.7 |
| | 38200 | 2615 | QPSK | 1 | 49 | 17.82 | 17.45 | 33 | -15.55 |
| | 30200 | 2010 | UPSK | 25 | 12 | 17.68 | 17.31 | 33 | -15.69 |
| | | | | 50 | 0 | 17.80 | 17.43 | 33 | -15.57 |
| | | | | 1 | 0 | 17.77 | 17.40 | 33 | -15.6 |
| | 37800 | 2575 | 16QAM | 1 | 49 | 17.79 | 17.42 | 33 | -15.58 |
| | 37600 | 2070 | TOQAW | 25 | 12 | 17.72 | 17.35 | 33 | -15.65 |
| | | | | 50 | 0 | 17.69 | 17.32 | 33 | -15.68 |
| | | | | 1 | 0 | 17.69 | 17.32 | 33 | -15.68 |
| 10 | 20000 | 2595 | 1/ 0 1 1 1 | 1 | 49 | 17.79 | 17.42 | 33 | -15.58 |
| 10 | 38000 | 2090 | 16QAM | 25 | 12 | 17.77 | 17.40 | 33 | -15.6 |
| | | | | 50 | 0 | 17.76 | 17.39 | 33 | -15.61 |
| | | | | 1 | 0 | 17.72 | 17.35 | 33 | -15.65 |
| | 20200 | 2/15 | 1/ 0 1 1 1 | 1 | 49 | 17.71 | 17.34 | 33 | -15.66 |
| | 38200 | 2615 | 16QAM | 25 | 12 | 17.73 | 17.36 | 33 | -15.64 |
| | | | | 50 | 0 | 17.70 | 17.33 | 33 | -15.67 |
| | | | | 1 | 0 | 17.77 | 17.40 | 33 | -15.6 |
| | 27000 | 2575 | (4000 | 1 | 49 | 17.79 | 17.42 | 33 | -15.58 |
| | 37800 | 2575 | 64QAM | 25 | 12 | 17.77 | 17.40 | 33 | -15.6 |
| | | | | 50 | 0 | 17.65 | 17.28 | 33 | -15.72 |
| | | | | 1 | 0 | 17.65 | 17.28 | 33 | -15.72 |
| | 20000 | 2505 | 440011 | 1 | 49 | 17.70 | 17.33 | 33 | -15.67 |
| | 38000 | 2595 | 64QAM | 25 | 12 | 17.68 | 17.31 | 33 | -15.69 |
| | | | | 50 | 0 | 17.76 | 17.39 | 33 | -15.61 |
| | | | | 1 | 0 | 17.80 | 17.43 | 33 | -15.57 |
| | 20200 | 2/15 | (A O A A A | 1 | 49 | 17.70 | 17.33 | 33 | -15.67 |
| | 38200 | 2615 | 64QAM | 25 | 12 | 17.80 | 17.43 | 33 | -15.57 |
| | | | | 50 | 0 | 17.70 | 17.33 | 33 | -15.67 |

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A 27 Antenna gain (dRi)

| Antenna | gain (dBi) | -0.37 | TF Rand 38 1 | Inlink | freguen | cy band : 2570 | to 2620 MHz | | |
|-------------|---------------|--------------------|--------------|------------|--------------|---|--------------------------|------------------------|----------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Cy band : 2370 Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| | | | | 1 | 0 | 17.78 | 17.41 | 33 | -15.59 |
| | | | | 1 | 74 | 17.65 | 17.28 | 33 | -15.72 |
| | 37825 | 2577.5 | QPSK | 36 | 19 | 17.77 | 17.40 | 33 | -15.6 |
| | | | | 75 | 0 | 17.74 | 17.37 | 33 | -15.63 |
| | | | | 1 | 0 | 17.69 | 17.32 | 33 | -15.68 |
| | 20000 | 0505 | 0001 | 1 | 74 | 17.72 | 17.35 | 33 | -15.65 |
| | 38000 | 2595 | QPSK | 36 | 19 | 17.69 | 17.32 | 33 | -15.68 |
| | | | | 75 | 0 | 17.80 | 17.43 | 33 | -15.57 |
| | | | | 1 | 0 | 17.78 | 17.41 | 33 | -15.59 |
| | 20175 | 2/12 5 | ODCK | 1 | 74 | 17.83 | 17.46 | 33 | -15.54 |
| | 38175 | 2612.5 | QPSK | 36 | 19 | 17.69 | 17.32 | 33 | -15.68 |
| | | | | 75 | 0 | 17.80 | 17.43 | 33 | -15.57 |
| | | | | 1 | 0 | 17.72 | 17.35 | 33 | -15.65 |
| | 37825 | 2577.5 | 16QAM | 1 | 74 | 17.83 | 17.46 | 33 | -15.54 |
| | 3/825 | 2377.3 | ToQAIVI | 36 | 19 | 17.81 | 17.44 | 33 | -15.56 |
| | | | | 75 | 0 | 17.82 | 17.45 | 33 | -15.55 |
| | | | | 1 | 0 | 17.78 | 17.41 | 33 | -15.59 |
| 15 | 38000 | 2595 | 16QAM | 1 | 74 | 17.69 | 17.32 | 33 | -15.68 |
| 10 | 30000 | 2090 | TOQAW | 36 | 19 | 17.76 | 17.39 | 33 | -15.61 |
| | | | | 75 | 0 | 17.70 | 17.33 | 33 | -15.67 |
| | | | | 1 | 0 | 17.81 | 17.44 | 33 | -15.56 |
| | 38175 | 2612.5 | 16QAM | 1 | 74 | 17.80 | 17.43 | 33 | -15.57 |
| | 30173 | 2012.3 | TOQAW | 36 | 19 | 17.73 | 17.36 | 33 | -15.64 |
| | | | | 75 | 0 | 17.78 | 17.41 | 33 | -15.59 |
| | | | | 1 | 0 | 17.67 | 17.30 | 33 | -15.7 |
| | 37825 | 2577.5 | 64QAM | 1 | 74 | 17.81 | 17.44 | 33 | -15.56 |
| | 37023 | 2377.3 | UTQAW | 36 | 19 | 17.83 | 17.46 | 33 | -15.54 |
| | | | | 75 | 0 | 17.70 | 17.33 | 33 | -15.67 |
| | | | | 1 | 0 | 17.71 | 17.34 | 33 | -15.66 |
| | 38000 | 2595 | 64QAM | 1 | 74 | 17.68 | 17.31 | 33 | -15.69 |
| | 30000 | 2373 | UTQAIVI | 36 | 19 | 17.64 | 17.27 | 33 | -15.73 |
| | | | | 75 | 0 | 17.67 | 17.30 | 33 | -15.7 |
| | | | | 1 | 0 | 17.72 | 17.35 | 33 | -15.65 |
| | 38175 | 2612.5 | 64QAM | 1 | 74 | 17.68 | 17.31 | 33 | -15.69 |
| | 30173 | 2012.3 | UTQAW | 36 | 19 | 17.83 | 17.46 | 33 | -15.54 |
| | | | | 75 | 0 | 17.76 | 17.39 | 33 | -15.61 |

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Antenna dain (dRi) Λ 27

| чиенна | gain (dBi) | -0.37 L 1 | ΓE Band 38_l | Jplink | freguen | cy 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) |
| | | | | 1 | 0 | 17.99 | 17.62 | 33 | -15.38 |
| | 37850 | 2580 | QPSK | 1 | 99 | 17.77 | 17.40 | 33 | -15.6 |
| | 37630 | 2000 | QPSK | 50 | 25 | 17.77 | 17.40 | 33 | -15.6 |
| | | | | 100 | 0 | 17.81 | 17.44 | 33 | -15.56 |
| | | | | 1 | 0 | 17.93 | 17.56 | 33 | -15.44 |
| | 38000 | 2595 | QPSK | 1 | 99 | 17.78 | 17.41 | 33 | -15.59 |
| | 36000 | 2090 | UPSK | 50 | 25 | 17.73 | 17.36 | 33 | -15.64 |
| | | | | 100 | 0 | 17.73 | 17.36 | 33 | -15.64 |
| | | | | 1 | 0 | 17.96 | 17.59 | 33 | -15.41 |
| | 20150 | 2610 | QPSK | 1 | 99 | 17.83 | 17.46 | 33 | -15.54 |
| | 38150 | 2010 | QP3K | 50 | 25 | 17.73 | 17.36 | 33 | -15.64 |
| | | | | 100 | 0 | 17.68 | 17.31 | 33 | -15.69 |
| | | | | 1 | 0 | 17.87 | 17.50 | 33 | -15.5 |
| | 27050 | 2500 | 1/ 0 1 1 1 | 1 | 99 | 17.91 | 17.54 | 33 | -15.46 |
| | 37850 | 2580 | 16QAM | 50 | 25 | 17.86 | 17.49 | 33 | -15.51 |
| | | | 100 | 0 | 17.85 | 17.48 | 33 | -15.52 | |
| | | | | 1 | 0 | 17.87 | 17.50 | 33 | -15.5 |
| 20 | 20000 | 2505 | 1/000 | 1 | 99 | 17.93 | 17.56 | 33 | -15.44 |
| 20 | 38000 | 2595 | 16QAM | 50 | 25 | 17.82 | 17.45 | 33 | -15.55 |
| | | | | 100 | 0 | 17.80 | 17.43 | 33 | -15.57 |
| | | | | 1 | 0 | 17.76 | 17.39 | 33 | -15.61 |
| | 00450 | 0/40 | 4 (0 4) 4 | 1 | 99 | 17.73 | 17.36 | 33 | -15.64 |
| | 38150 | 2610 | 16QAM | 50 | 25 | 17.86 | 17.49 | 33 | -15.51 |
| | | | | 100 | 0 | 17.78 | 17.41 | 33 | -15.59 |
| | | | | 1 | 0 | 17.77 | 17.40 | 33 | -15.6 |
| | 07050 | 2522 | | 1 | 99 | 17.81 | 17.44 | 33 | -15.56 |
| | 37850 | 2580 | 64QAM | 50 | 25 | 17.78 | 17.41 | 33 | -15.59 |
| | | | | 100 | 0 | 17.74 | 17.37 | 33 | -15.63 |
| | | | | 1 | 0 | 17.83 | 17.46 | 33 | -15.54 |
| | 00000 | 0505 | (40.554 | 1 | 99 | 17.72 | 17.35 | 33 | -15.65 |
| | 38000 | 2595 | 64QAM | 50 | 25 | 17.81 | 17.44 | 33 | -15.56 |
| | | | | 100 | 0 | 17.70 | 17.33 | 33 | -15.67 |
| | | | | 1 | 0 | 17.78 | 17.41 | 33 | -15.59 |
| | | | | 1 | 99 | 17.71 | 17.34 | 33 | -15.66 |
| | 38150 | 2610 | 64QAM | 50 | 25 | 17.82 | 17.45 | 33 | -15.55 |
| | | | | 100 | 0 | 17.70 | 17.33 | 33 | -15.67 |

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Antonna gain (dRi)

| Antenna | gain (dBi) | -0.19 | TF Rand 41 I | Inlink f | requency band | 1 · 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) |
| | | | | 1 | 0 | 17.74 | 17.55 | 33 | -15.45 |
| | 20/75 | 2400 5 | ODCK | 1 | 24 | 17.84 | 17.65 | 33 | -15.35 |
| | 39675 | 2498.5 | QPSK | 12 | 6 | 17.91 | 17.72 | 33 | -15.28 |
| | | | | 25 | 0 | 17.88 | 17.69 | 33 | -15.31 |
| | | | | 1 | 0 | 17.92 | 17.73 | 33 | -15.27 |
| | 40620 | 2593 | QPSK | 1 | 24 | 17.79 | 17.60 | 33 | -15.4 |
| | 40020 | 2090 | UPSK | 12 | 6 | 17.81 | 17.62 | 33 | -15.38 |
| | | | | 25 | 0 | 17.82 | 17.63 | 33 | -15.37 |
| | | | | 1 | 0 | 1781 | 17.82 | 33 | -15.18 |
| | 41565 | 2687.5 | QPSK | 1 | 24 | 17.84 | 17.65 | 33 | -15.35 |
| | 41303 | 2007.5 | QF3K | 12 | 6 | 17.84 | 17.65 | 33 | -15.35 |
| | | | | 25 | 0 | 17.82 | 17.63 | 33 | -15.37 |
| | | | | 1 | 0 | 17.79 | 17.60 | 33 | -15.4 |
| | 39675 | 2498.5 | 16QAM | 1 | 24 | 17.78 | 17.59 | 33 | -15.41 |
| | 37073 | 2470.0 | TOQAW | 12 | 6 | 17.79 | 17.60 | 33 | -15.4 |
| | | | | 25 | 0 | 17.76 | 17.57 | 33 | -15.43 |
| | | | | 1 | 0 | 17.77 | 17.58 | 33 | -15.42 |
| 5 | 40620 | 2593 | 16QAM | 1 | 24 | 17.81 | 17.62 | 33 | -15.38 |
| 3 | 40020 | 2373 | TOQAW | 12 | 6 | 17.90 | 17.71 | 33 | -15.29 |
| | | | | 25 | 0 | 17.82 | 17.63 | 33 | -15.37 |
| | | | | 1 | 0 | 17.84 | 17.65 | 33 | -15.35 |
| | 41565 | 2687.5 | 16QAM | 1 | 24 | 17.83 | 17.64 | 33 | -15.36 |
| | 41303 | 2007.3 | TOQAW | 12 | 6 | 17.92 | 17.73 | 33 | -15.27 |
| | | | | 25 | 0 | 17.92 | 17.73 | 33 | -15.27 |
| | | | | 1 | 0 | 17.89 | 17.70 | 33 | -15.3 |
| | 39675 | 2498.5 | 64QAM | 1 | 24 | 17.82 | 17.63 | 33 | -15.37 |
| | 37073 | 2470.3 | 04QAIVI | 12 | 6 | 17.79 | 17.60 | 33 | -15.4 |
| | | | | 25 | 0 | 17.86 | 17.67 | 33 | -15.33 |
| | | | | 1 | 0 | 17.89 | 17.70 | 33 | -15.3 |
| | 40620 | 2593 | 64QAM | 1 | 24 | 17.91 | 17.72 | 33 | -15.28 |
| | 70020 | 2373 | UTQAIVI | 12 | 6 | 17.82 | 17.63 | 33 | -15.37 |
| | | | | 25 | 0 | 17.90 | 17.71 | 33 | -15.29 |
| | | | | 1 | 0 | 17.78 | 17.59 | 33 | -15.41 |
| | 41565 | 2687.5 | 64QAM | 1 | 24 | 17.92 | 17.73 | 33 | -15.27 |
| | 41303 | 2007.3 | UTUAIVI | 12 | 6 | 17.85 | 17.66 | 33 | -15.34 |
| | | | | 25 | 0 | 17.89 | 17.70 | 33 | -15.3 |

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Antenna gain (dRi)

| Antenna | gain (dBi) | -0.19 | TF Band 41 L | Jolink f | requency band | d : 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) |
| | | | | 1 | 0 | 17.75 | 17.56 | 33 | -15.44 |
| | 39700 | 2501 | QPSK | 1 | 49 | 17.89 | 17.70 | 33 | -15.3 |
| | 37700 | 2301 | QI SIK | 25 | 12 | 17.89 | 17.70 | 33 | -15.3 |
| | | | | 50 | 0 | 17.88 | 17.69 | 33 | -15.31 |
| | | | | 1 | 0 | 17.90 | 17.71 | 33 | -15.29 |
| | 40620 | 2593 | QPSK | 1 | 49 | 17.79 | 17.60 | 33 | -15.4 |
| | 10020 | 2070 | QI OIX | 25 | 12 | 17.91 | 17.72 | 33 | -15.28 |
| | | | | 50 | 0 | 17.82 | 17.63 | 33 | -15.37 |
| | | | | 1 | 0 | 17.88 | 17.69 | 33 | -15.31 |
| | 41540 | 2685 | QPSK | 1 | 49 | 17.77 | 17.58 | 33 | -15.42 |
| | 11010 | 2000 | QI OIX | 25 | 12 | 17.86 | 17.67 | 33 | -15.33 |
| | | | | 50 | 0 | 17.84 | 17.65 | 33 | -15.35 |
| | | | | 1 | 0 | 17.91 | 17.72 | 33 | -15.28 |
| | 39700 | 2501 | 16QAM | 1 | 49 | 17.87 | 17.68 | 33 | -15.32 |
| | 07700 | 200. | | 25 | 12 | 17.78 | 17.59 | 33 | -15.41 |
| | | | | 50 | 0 | 17.81 | 17.62 | 33 | -15.38 |
| | | | | 1 | 0 | 17.75 | 17.56 | 33 | -15.44 |
| 10 | 40620 | 2593 | 16QAM | 1 | 49 | 17.81 | 17.62 | 33 | -15.38 |
| | | | | 25 | 12 | 17.75 | 17.56 | 33 | -15.44 |
| | | | | 50 | 0 | 17.91 | 17.72 | 33 | -15.28 |
| | | | | 1 | 0 | 17.91 | 17.72 | 33 | -15.28 |
| | 41540 | 2685 | 16QAM | 1 | 49 | 17.80 | 17.61 | 33 | -15.39 |
| | | | | 25 | 12 | 17.77 | 17.58 | 33 | -15.42 |
| | | | | 50 | 0 | 17.80 | 17.61 | 33 | -15.39 |
| | | | | 1 | 0 | 17.80 | 17.61 | 33 | -15.39 |
| | 39700 | 2501 | 64QAM | 1 | 49 | 17.80 | 17.61 | 33 | -15.39 |
| | | | | 25 | 12 | 17.84 | 17.65 | 33 | -15.35 |
| | | | | 50 | 0 | 17.90 | 17.71 | 33 | -15.29 |
| | | | | 1 | 0 | 17.77 | 17.58 | 33 | -15.42 |
| | 40620 | 2593 | 64QAM | 1 | 49 | 17.81 | 17.62 | 33 | -15.38 |
| | | | | 25 | 12 | 17.86 | 17.67 | 33 | -15.33 |
| | | | | 50 | 0 | 17.92 | 17.73 | 33 | -15.27 |
| | | | | 1 | 0 | 17.92 | 17.73 | 33 | -15.27 |
| | 41540 | 2685 | 64QAM | 1 | 49 | 17.78 | 17.59 | 33 | -15.41 |
| | | | | 25 | 12 | 17.90 | 17.71 | 33 | -15.29 |
| | | | | 50 | 0 | 17.90 | 17.71 | 33 | -15.29 |

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Antonna gain (dRi) **N** 10

| Antenna | gain (ubi) | -0.19 | F Rand 41 L | Inlink f | requency band | d : 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) |
| | | | | 1 | 0 | 17.81 | 17.62 | 33 | -15.38 |
| | 39725 | 2503.5 | QPSK | 1 | 74 | 17.93 | 17.74 | 33 | -15.26 |
| | 39723 | 2303.3 | UPSK | 36 | 18 | 17.89 | 17.70 | 33 | -15.3 |
| | | | | 75 | 0 | 17.85 | 17.66 | 33 | -15.34 |
| | | | | 1 | 0 | 17.82 | 17.63 | 33 | -15.37 |
| | 40620 | 2593 | QPSK | 1 | 74 | 17.86 | 17.67 | 33 | -15.33 |
| | 40020 | 2373 | QI 3K | 36 | 18 | 17.90 | 17.71 | 33 | -15.29 |
| | | | | 75 | 0 | 17.78 | 17.59 | 33 | -15.41 |
| | | | | 1 | 0 | 17.89 | 17.70 | 33 | -15.3 |
| | 41515 | 2682.5 | QPSK | 1 | 74 | 17.75 | 17.56 | 33 | -15.44 |
| | 41010 | 2002.3 | QF3K | 36 | 18 | 17.92 | 17.73 | 33 | -15.27 |
| | | | | 75 | 0 | 17.77 | 17.58 | 33 | -15.42 |
| | | | | 1 | 0 | 17.82 | 17.63 | 33 | -15.37 |
| | 39725 | 2503.5 | 16QAM | 1 | 74 | 17.80 | 17.61 | 33 | -15.39 |
| | 37723 | 2303.3 | TOQAW | 36 | 18 | 17.80 | 17.61 | 33 | -15.39 |
| | | | | 75 | 0 | 17.80 | 17.61 | 33 | -15.39 |
| | | | | 1 | 0 | 17.90 | 17.71 | 33 | -15.29 |
| 15 | 40620 | 2593 | 16QAM | 1 | 74 | 17.81 | 17.62 | 33 | -15.38 |
| 13 | 40020 | 2373 | TOQAW | 36 | 18 | 17.87 | 17.68 | 33 | -15.32 |
| | | | | 75 | 0 | 17.86 | 17.67 | 33 | -15.33 |
| | | | | 1 | 0 | 17.74 | 17.55 | 33 | -15.45 |
| | 41515 | 2682.5 | 16QAM | 1 | 74 | 17.81 | 17.62 | 33 | -15.38 |
| | 41313 | 2002.3 | TOQAW | 36 | 18 | 17.93 | 17.74 | 33 | -15.26 |
| | | | | 75 | 0 | 17.89 | 17.70 | 33 | -15.3 |
| | | | | 1 | 0 | 17.75 | 17.56 | 33 | -15.44 |
| | 39725 | 2503.5 | 64QAM | 1 | 74 | 17.89 | 17.70 | 33 | -15.3 |
| | 37723 | 2303.3 | 04QAIVI | 36 | 18 | 17.91 | 17.72 | 33 | -15.28 |
| | | | | 75 | 0 | 17.84 | 17.65 | 33 | -15.35 |
| | | | | 1 | 0 | 17.82 | 17.63 | 33 | -15.37 |
| | 40620 | 2593 | 64QAM | 1 | 74 | 17.93 | 17.74 | 33 | -15.26 |
| | 40020 | 2373 | UHUAIVI | 36 | 18 | 17.89 | 17.70 | 33 | -15.3 |
| | | | | 75 | 0 | 17.85 | 17.66 | 33 | -15.34 |
| | | | | 1 | 0 | 17.76 | 17.57 | 33 | -15.43 |
| | 41515 | 2682.5 | 64QAM | 1 | 74 | 17.87 | 17.68 | 33 | -15.32 |
| | 41010 | 2002.0 | UHUAIVI | 36 | 18 | 17.82 | 17.63 | 33 | -15.37 |
| | | | | 75 | 0 | 17.74 | 17.55 | 33 | -15.45 |

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Λ 10 Antonno goin (dDi)

| Antenna | gain (dBi) | -0.19 | FE Dand 11 I | Inlink f | roguenev han | d . 2404 to 2400 |) MILI- | | |
|-------------|---------------|-----------------|---------------------------|------------|--------------|--|-----------------|---------------|----------------|
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | d : 2496 to 2690 Conducted Average | EIRP Average | EIRP Limit | Margin (dB) |
| (1411 12) | Ondrinoi | (1411 12) | | | | (dBm) | (dBm) | (dBm) | |
| | | | | 1 | 0 | 17.95 | 17.76 | 33 | -15.24 |
| | 39750 | 2506 | QPSK | 1 | 99 | 17.92 | 17.73 | 33 | -15.27 |
| | | | | 50 | 25 | 17.87 | 17.68 | 33 | -15.32 |
| | | | | 100 | 0 | 17.76 | 17.57 | 33 | -15.43 |
| | | | | 1 | 0 | 17.98 | 17.79 | 33 | -15.21 |
| | 40620 | 2593 | QPSK | 1 | 99 | 17.83 | 17.64 | 33 | -15.36 |
| | | | | 50 | 25 | 17.77 | 17.58 | 33 | -15.42 |
| | | | | 100 | 0 | 17.68 | 17.49 | 33 | -15.51 |
| | | | | 1 | 0 | 17.97 | 17.78 | 33 | -15.22 |
| | 41490 | 2680 | QPSK | 1 | 99 | 17.88 | 17.69 | 33 | -15.31 |
| | | | | 50 | 25 | 17.76 | 17.57 | 33 | -15.43 |
| | | | | 100 | 0 | 17.78 | 17.59 | 33 | -15.41 |
| | | | | 1 | 0 | 17.82 | 17.63 | 33 | -15.37 |
| | 39750 | 2506 | 16QAM | 1 | 99 | 17.89 | 17.70 | 33 | -15.3 |
| | 077.00 | | | 50 | 25 | 17.84 | 17.65 | 33 | -15.35 |
| | | | | 100 | 0 | 17.87 | 17.68 | 33 | -15.32 |
| | | | | 1 | 0 | 17.75 | 17.56 | 33 | -15.44 |
| 20 | 40620 | 2593 | 16QAM | 1 | 99 | 17.93 | 17.74 | 33 | -15.26 |
| 20 | 10020 | 2070 | 10 27 1111 | 50 | 25 | 17.83 | 17.64 | 33 | -15.36 |
| | | | | 100 | 0 | 17.84 | 17.65 | 33 | -15.35 |
| | | | | 1 | 0 | 17.89 | 17.70 | 33 | -15.3 |
| | 41490 | 2680 | 16QAM | 1 | 99 | 17.87 | 17.68 | 33 | -15.32 |
| | 41470 | 2000 | TOQAW | 50 | 25 | 17.88 | 17.69 | 33 | -15.31 |
| | | | | 100 | 0 | 17.90 | 17.71 | 33 | -15.29 |
| | | | | 1 | 0 | 17.91 | 17.72 | 33 | -15.28 |
| | 39750 | 2506 | 64QAM | 1 | 99 | 17.90 | 17.71 | 33 | -15.29 |
| | 37730 | 2300 | 04QAIVI | 50 | 25 | 17.75 | 17.56 | 33 | -15.44 |
| | | | | 100 | 0 | 17.76 | 17.57 | 33 | -15.43 |
| | | | | 1 | 0 | 17.76 | 17.57 | 33 | -15.43 |
| | 40620 | 2593 | 64QAM | 1 | 99 | 17.81 | 17.62 | 33 | -15.38 |
| | 40020 | 2093 | 04QAIVI | 50 | 25 | 17.83 | 17.64 | 33 | -15.36 |
| | | | | 100 | 0 | 17.90 | 17.71 | 33 | -15.29 |
| | | | | 1 | 0 | 17.76 | 17.57 | 33 | -15.43 |
| | 41 400 | 24.00 | <i>(4</i> ○ <i>0 1 0</i> | 1 | 99 | 17.77 | 17.58 | 33 | -15.42 |
| | 41490 | 2680 | 64QAM | 50 | 25 | 17.75 | 17.56 | 33 | -15.44 |
| | | | | 100 | 0 | 17.87 | 17.68 | 33 | -15.32 |

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| ıntenna | gain (dBi) | -0.21 | TE Dand 44 1 | Inlink | fraguen | ov band : 1710 | to 1700 MHz | | |
|-------------|---------------|--------------------|--------------|------------|--------------|-----------------------------|------------------|----------------|----------------|
| | | L | E Band 66_0 | JPIINK | irequen | cy band : 1710 Conducted | EIRP | EIRP | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Average (dBm) | Average (dBm) | Limit (dBm) | Margin (dB) |
| | | | | 1 | 0 | 19.47 | 19.26 | 30 | -10.74 |
| | 404070 | 4740 7 | 00014 | 1 | 5 | 19.36 | 19.15 | 30 | -10.85 |
| | 131979 | 1710.7 | QPSK | 3 | 2 | 19.45 | 19.24 | 30 | -10.76 |
| | | | | 6 | 0 | 19.43 | 19.22 | 30 | -10.78 |
| | | | | 1 | 0 | 19.43 | 19.22 | 30 | -10.78 |
| | 100000 | 4745 | ODGI | 1 | 5 | 19.43 | 19.22 | 30 | -10.78 |
| | 132322 | 1745 | QPSK | 3 | 2 | 19.31 | 19.10 | 30 | -10.9 |
| | | | | 6 | 0 | 19.34 | 19.13 | 30 | -10.87 |
| | | | | 1 | 0 | 19.36 | 19.15 | 30 | -10.85 |
| | 100//5 | 1770.0 | ODGI | 1 | 5 | 19.36 | 19.15 | 30 | -10.85 |
| | 132665 | 1779.3 | QPSK | 3 | 2 | 19.31 | 19.10 | 30 | -10.9 |
| | | | | 6 | 0 | 19.28 | 19.07 | 30 | -10.93 |
| | | | | 1 | 0 | 19.38 | 19.17 | 30 | -10.83 |
| | 101070 | 4740 7 | 4/0414 | 1 | 5 | 19.36 | 19.15 | 30 | -10.85 |
| 131 | 131979 | 1710.7 | 16QAM | 3 | 2 | 19.29 | 19.08 | 30 | -10.92 |
| | | | | 6 | 0 | 19.47 | 19.26 | 30 | -10.74 |
| | | 1745 | 1/0414 | 1 | 0 | 19.34 | 19.13 | 30 | -10.87 |
| 1.4 | 100000 | | | 1 | 5 | 19.36 | 19.15 | 30 | -10.85 |
| 1.4 | 132322 | 1745 | 16QAM | 3 | 2 | 19.33 | 19.12 | 30 | -10.88 |
| | | | | 6 | 0 | 19.40 | 19.19 | 30 | -10.81 |
| | | | | 1 | 0 | 19.41 | 19.20 | 30 | -10.8 |
| | 100//5 | 1770.0 | 1/0414 | 1 | 5 | 19.39 | 19.18 | 30 | -10.82 |
| | 132665 | 1779.3 | 16QAM | 3 | 2 | 19.35 | 19.14 | 30 | -10.86 |
| | | | | 6 | 0 | 19.42 | 19.21 | 30 | -10.79 |
| | | | | 1 | 0 | 19.35 | 19.14 | 30 | -10.86 |
| | 101070 | 1710 7 | (40014 | 1 | 5 | 19.31 | 19.10 | 30 | -10.9 |
| | 131979 | 1710.7 | 64QAM | 3 | 2 | 19.31 | 19.10 | 30 | -10.9 |
| | | | | 6 | 0 | 19.34 | 19.13 | 30 | -10.87 |
| | | | | 1 | 0 | 19.38 | 19.17 | 30 | -10.83 |
| | 100000 | 17.45 | / 40 444 | 1 | 5 | 19.45 | 19.24 | 30 | -10.76 |
| | 132322 | 1745 | 64QAM | 3 | 2 | 19.44 | 19.23 | 30 | -10.77 |
| | | | | 6 | 0 | 19.34 | 19.13 | 30 | -10.87 |
| | | | | 1 | 0 | 19.36 | 19.15 | 30 | -10.85 |
| | 100//5 | 1770.0 | (40004 | 1 | 5 | 19.43 | 19.22 | 30 | -10.78 |
| | 132665 | 1779.3 | 64QAM | 3 | 2 | 19.30 | 19.09 | 30 | -10.91 |
| | | | | 6 | 0 | 19.46 | 19.25 | 30 | -10.75 |

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Antenna gain (dRi)

| Antenna | gain (dBi) | -0.21 | TE Band 66 l | Jplink | freguen | cy 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 | 0 | 19.30 | 19.09 | 30 | -10.91 |
| | 131987 | 1711.5 | QPSK | 1 | 14 | 19.44 | 19.23 | 30 | -10.77 |
| | 131907 | 1711.3 | UPSK | 8 | 4 | 19.30 | 19.09 | 30 | -10.91 |
| | | | | 15 | 0 | 19.35 | 19.14 | 30 | -10.86 |
| | | | | 1 | 0 | 19.32 | 19.11 | 30 | -10.89 |
| | 132322 | 1745 | QPSK | 1 | 14 | 19.36 | 19.15 | 30 | -10.85 |
| | 132322 | 1743 | QISK | 8 | 4 | 19.32 | 19.11 | 30 | -10.89 |
| | | | | 15 | 0 | 19.37 | 19.16 | 30 | -10.84 |
| | | | | 1 | 0 | 19.38 | 19.17 | 30 | -10.83 |
| | 132657 | 1778.5 | QPSK | 1 | 14 | 19.30 | 19.09 | 30 | -10.91 |
| | 132037 | 1770.5 | QF3K | 8 | 4 | 19.32 | 19.11 | 30 | -10.89 |
| | | | | 15 | 0 | 19.39 | 19.18 | 30 | -10.82 |
| | | | | 1 | 0 | 19.37 | 19.16 | 30 | -10.84 |
| | 131987 | 1711.5 | 16QAM | 1 | 14 | 19.37 | 19.16 | 30 | -10.84 |
| | 131707 | 1711.5 | TOQAM | 8 | 4 | 19.29 | 19.08 | 30 | -10.92 |
| | | | | 15 | 0 | 19.40 | 19.19 | 30 | -10.81 |
| | | | | 1 | 0 | 19.36 | 19.15 | 30 | -10.85 |
| 3 | 132322 | 1745 | 16QAM | 1 | 14 | 19.36 | 19.15 | 30 | -10.85 |
| | 132322 | 1743 | TOQAW | 8 | 4 | 19.43 | 19.22 | 30 | -10.78 |
| | | | | 15 | 0 | 19.32 | 19.11 | 30 | -10.89 |
| | | | | 1 | 0 | 19.43 | 19.22 | 30 | -10.78 |
| | 132657 | 1778.5 | 16QAM | 1 | 14 | 19.44 | 19.23 | 30 | -10.77 |
| | 132037 | 1770.5 | TOQAW | 8 | 4 | 19.39 | 19.18 | 30 | -10.82 |
| | | | | 15 | 0 | 19.39 | 19.18 | 30 | -10.82 |
| | | | | 1 | 0 | 19.30 | 19.09 | 30 | -10.91 |
| | 131987 | 1711.5 | 64QAM | 1 | 14 | 19.31 | 19.10 | 30 | -10.9 |
| | 131707 | 1711.5 | 04QAIVI | 8 | 4 | 19.38 | 19.17 | 30 | -10.83 |
| | | | | 15 | 0 | 19.34 | 19.13 | 30 | -10.87 |
| | | | | 1 | 0 | 19.43 | 19.22 | 30 | -10.78 |
| | 132322 | 1745 | 64QAM | 1 | 14 | 19.30 | 19.09 | 30 | -10.91 |
| | 132322 | 1740 | UHUAIVI | 8 | 4 | 19.43 | 19.22 | 30 | -10.78 |
| | | | | 15 | 0 | 19.41 | 19.20 | 30 | -10.8 |
| | | | | 1 | 0 | 19.46 | 19.25 | 30 | -10.75 |
| | 132657 | 1778.5 | 64QAM | 1 | 14 | 19.38 | 19.17 | 30 | -10.83 |
| | 132037 | 1770.3 | U4QAIVI | 8 | 4 | 19.35 | 19.14 | 30 | -10.86 |
| | | | | 15 | 0 | 19.43 | 19.22 | 30 | -10.78 |

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Antenna gain (dRi) -0.21

| Antenna | gain (dBi) | -0.21 L 1 | ΓE Band 66_l | Jplink | frequen | cy 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 | 0 | 19.28 | 19.07 | 30 | -10.93 |
| | 121007 | 1710 F | ODCK | 1 | 24 | 19.47 | 19.26 | 30 | -10.74 |
| | 131997 | 1712.5 | QPSK | 12 | 6 | 19.33 | 19.12 | 30 | -10.88 |
| | | | | 25 | 0 | 19.40 | 19.19 | 30 | -10.81 |
| | | | | 1 | 0 | 19.35 | 19.14 | 30 | -10.86 |
| | 132322 | 1745 | QPSK | 1 | 24 | 19.39 | 19.18 | 30 | -10.82 |
| | 132322 | 1745 | UPSK | 12 | 6 | 19.30 | 19.09 | 30 | -10.91 |
| | | | | 25 | 0 | 19.28 | 19.07 | 30 | -10.93 |
| | | | | 1 | 0 | 19.36 | 19.15 | 30 | -10.85 |
| | 132647 | 1777.5 | QPSK | 1 | 24 | 19.35 | 19.14 | 30 | -10.86 |
| | 132047 | 1777.3 | UPSK | 12 | 6 | 19.30 | 19.09 | 30 | -10.91 |
| | | | | 25 | 0 | 19.44 | 19.23 | 30 | -10.77 |
| | | | 16QAM | 1 | 0 | 19.37 | 19.16 | 30 | -10.84 |
| | 131997 1712 | 1712 5 | | 1 | 24 | 19.41 | 19.20 | 30 | -10.8 |
| | 131997 | 1712.5 | | 12 | 6 | 19.42 | 19.21 | 30 | -10.79 |
| L | | | | 25 | 0 | 19.37 | 19.16 | 30 | -10.84 |
| | | | 16QAM | 1 | 0 | 19.47 | 19.26 | 30 | -10.74 |
| 5 | 132322 | 1745 | | 1 | 24 | 19.37 | 19.16 | 30 | -10.84 |
| 5 | 132322 | 1745 | TOQAW | 12 | 6 | 19.30 | 19.09 | 30 | -10.91 |
| | | | | 25 | 0 | 19.44 | 19.23 | 30 | -10.77 |
| | | | | 1 | 0 | 19.34 | 19.13 | 30 | -10.87 |
| | 132647 | 1777.5 | 16QAM | 1 | 24 | 19.41 | 19.20 | 30 | -10.8 |
| | 132047 | 1777.3 | TOQAW | 12 | 6 | 19.40 | 19.19 | 30 | -10.81 |
| | | | | 25 | 0 | 19.30 | 19.09 | 30 | -10.91 |
| | | | | 1 | 0 | 19.30 | 19.09 | 30 | -10.91 |
| | 131997 | 1712.5 | 64QAM | 1 | 24 | 19.38 | 19.17 | 30 | -10.83 |
| | 131777 | 1712.5 | 04QAIVI | 12 | 6 | 19.35 | 19.14 | 30 | -10.86 |
| | | | | 25 | 0 | 19.41 | 19.20 | 30 | -10.8 |
| | | | | 1 | 0 | 19.44 | 19.23 | 30 | -10.77 |
| | 132322 | 1745 | 64QAM | 1 | 24 | 19.40 | 19.19 | 30 | -10.81 |
| | IJZJZZ | 1743 | UTQAW | 12 | 6 | 19.46 | 19.25 | 30 | -10.75 |
| | | | | 25 | 0 | 19.44 | 19.23 | 30 | -10.77 |
| | | | | 1 | 0 | 19.44 | 19.23 | 30 | -10.77 |
| | 132647 | 1777 ፍ | 640011 | 1 | 24 | 19.35 | 19.14 | 30 | -10.86 |
| | 132047 | 32647 1777.5 | 64QAM - | 12 | 6 | 19.29 | 19.08 | 30 | -10.92 |
| | | | | 25 | 0 | 19.31 | 19.10 | 30 | -10.9 |

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| Antenna | gain (dBi) | -0.21 | | | | | 4=00: | | |
|-------------|---------------|--------------------|-------------|------------|--------------|-------------------------------|--------------------------|------------------------|----------------|
| | | Lī | E Band 66_l | Jplink | trequen | cy band : 1710 | | FIDE | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| | | | | 1 | 0 | 19.37 | 19.16 | 30 | -10.84 |
| | 122022 | 1715 | QPSK | 1 | 49 | 19.32 | 19.11 | 30 | -10.89 |
| | 132022 | 1715 | UPSK | 25 | 12 | 19.41 | 19.20 | 30 | -10.8 |
| | | | | 50 | 0 | 19.47 | 19.26 | 30 | -10.74 |
| | | | | 1 | 0 | 19.31 | 19.10 | 30 | -10.9 |
| | 132322 | 1745 | QPSK | 1 | 49 | 19.46 | 19.25 | 30 | -10.75 |
| | 132322 | 1745 | QF3K | 25 | 12 | 19.40 | 19.19 | 30 | -10.81 |
| | | | | 50 | 0 | 19.32 | 19.11 | 30 | -10.89 |
| | | | | 1 | 0 | 19.34 | 19.13 | 30 | -10.87 |
| | 132622 | 1775 | QPSK | 1 | 49 | 19.44 | 19.23 | 30 | -10.77 |
| | 132022 | 1773 | QI 3K | 25 | 12 | 19.40 | 19.19 | 30 | -10.81 |
| | | | | 50 | 0 | 19.46 | 19.25 | 30 | -10.75 |
| | | | | 1 | 0 | 19.34 | 19.13 | 30 | -10.87 |
| | 132022 | 1715 | 16QAM | 1 | 49 | 19.38 | 19.17 | 30 | -10.83 |
| | 132022 | 1713 | TOQAW | 25 | 12 | 19.44 | 19.23 | 30 | -10.77 |
| | | | | 50 | 0 | 19.29 | 19.08 | 30 | -10.92 |
| | | | | 1 | 0 | 19.31 | 19.10 | 30 | -10.9 |
| 10 | 132322 | 1745 | 16QAM | 1 | 49 | 19.37 | 19.16 | 30 | -10.84 |
| 10 | 132322 | 1743 | TOQAW | 25 | 12 | 19.29 | 19.08 | 30 | -10.92 |
| | | | | 50 | 0 | 19.29 | 19.08 | 30 | -10.92 |
| | | | | 1 | 0 | 19.36 | 19.15 | 30 | -10.85 |
| | 132622 | 1775 | 16QAM | 1 | 49 | 19.39 | 19.18 | 30 | -10.82 |
| | 132022 | 1775 | 10071111 | 25 | 12 | 19.32 | 19.11 | 30 | -10.89 |
| | | | | 50 | 0 | 19.38 | 19.17 | 30 | -10.83 |
| | | | | 1 | 0 | 19.30 | 19.09 | 30 | -10.91 |
| | 132022 | 1715 | 64QAM | 1 | 49 | 19.44 | 19.23 | 30 | -10.77 |
| | 132022 | 1715 | 04Q/\(\v\) | 25 | 12 | 19.38 | 19.17 | 30 | -10.83 |
| | | | | 50 | 0 | 19.37 | 19.16 | 30 | -10.84 |
| | | | | 1 | 0 | 19.34 | 19.13 | 30 | -10.87 |
| | 132322 | 1745 | 64QAM | 1 | 49 | 19.33 | 19.12 | 30 | -10.88 |
| | 102022 | 1773 | O I QI IIVI | 25 | 12 | 19.32 | 19.11 | 30 | -10.89 |
| | | | | 50 | 0 | 19.44 | 19.23 | 30 | -10.77 |
| | | | | 1 | 0 | 19.46 | 19.25 | 30 | -10.75 |
| | 132622 | 1775 | 64QAM | 1 | 49 | 19.39 | 19.18 | 30 | -10.82 |
| | 102022 | 1773 | O TQ/ (IVI | 25 | 12 | 19.32 | 19.11 | 30 | -10.89 |
| | | | | 50 | 0 | 19.30 | 19.09 | 30 | -10.91 |

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Antenna gain (dRi)

| Antenna | gain (dBi) | -0.21 L 1 | TE Band 66 1 | Jplink | frequen | cy 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 | 0 | 19.46 | 19.25 | 30 | -10.75 |
| | 132047 | 1717.5 | QPSK | 1 | 74 | 19.28 | 19.07 | 30 | -10.93 |
| | 132047 | 1717.3 | QPSK | 36 | 18 | 19.46 | 19.25 | 30 | -10.75 |
| | | | | 75 | 0 | 19.43 | 19.22 | 30 | -10.78 |
| | | | | 1 | 0 | 19.34 | 19.13 | 30 | -10.87 |
| | 132322 | 1745 | QPSK | 1 | 74 | 19.43 | 19.22 | 30 | -10.78 |
| | 132322 | 1745 | QF3K | 36 | 18 | 19.36 | 19.15 | 30 | -10.85 |
| | | | | 75 | 0 | 19.32 | 19.11 | 30 | -10.89 |
| | | | | 1 | 0 | 19.29 | 19.08 | 30 | -10.92 |
| | 132597 | 1772.5 | QPSK | 1 | 74 | 19.33 | 19.12 | 30 | -10.88 |
| | 132371 | 1772.3 | QF3K | 36 | 18 | 19.36 | 19.15 | 30 | -10.85 |
| | | | | 75 | 0 | 19.45 | 19.24 | 30 | -10.76 |
| | | | | 1 | 0 | 19.46 | 19.25 | 30 | -10.75 |
| | 132047 | 1717.5 | 16QAM | 1 | 74 | 19.46 | 19.25 | 30 | -10.75 |
| | 132047 | 1717.5 | | 36 | 18 | 19.33 | 19.12 | 30 | -10.88 |
| | | | | 75 | 0 | 19.45 | 19.24 | 30 | -10.76 |
| | | | 16QAM | 1 | 0 | 19.34 | 19.13 | 30 | -10.87 |
| 15 | 132322 | 1745 | | 1 | 74 | 19.29 | 19.08 | 30 | -10.92 |
| 10 | 132322 | 1740 | | 36 | 18 | 19.36 | 19.15 | 30 | -10.85 |
| | | | | 75 | 0 | 19.34 | 19.13 | 30 | -10.87 |
| | | | | 1 | 0 | 19.39 | 19.18 | 30 | -10.82 |
| | 132597 | 1772.5 | 16QAM | 1 | 74 | 19.34 | 19.13 | 30 | -10.87 |
| | 132371 | 1772.3 | TOQAW | 36 | 18 | 19.46 | 19.25 | 30 | -10.75 |
| | | | | 75 | 0 | 19.44 | 19.23 | 30 | -10.77 |
| | | | | 1 | 0 | 19.30 | 19.09 | 30 | -10.91 |
| | 132047 | 1717.5 | 64QAM | 1 | 74 | 19.45 | 19.24 | 30 | -10.76 |
| | 132047 | 1717.3 | 04QAIVI | 36 | 18 | 19.43 | 19.22 | 30 | -10.78 |
| | | | | 75 | 0 | 19.31 | 19.10 | 30 | -10.9 |
| | | | | 1 | 0 | 19.37 | 19.16 | 30 | -10.84 |
| | 132322 | 1745 | 64QAM | 1 | 74 | 19.32 | 19.11 | 30 | -10.89 |
| | 132322 | 1740 | U4QAIVI | 36 | 18 | 19.34 | 19.13 | 30 | -10.87 |
| | | | | 75 | 0 | 19.46 | 19.25 | 30 | -10.75 |
| | | | | 1 | 0 | 19.30 | 19.09 | 30 | -10.91 |
| ı | 132597 | 1772.5 | 61011 | 1 | 74 | 19.33 | 19.12 | 30 | -10.88 |
| ı | 132397 | 1772.5 | 64QAM | 36 | 18 | 19.40 | 19.19 | 30 | -10.81 |
| | | | | 75 | 0 | 19.31 | 19.10 | 30 | -10.9 |

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Antenna gain (dRi)

| HIIIEIIIId | gain (dBi) | -0.21 L 1 | ΓE Band 66_ l | Jplink | frequen | cy 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 | 0 | 19.49 | 19.28 | 30 | -10.72 |
| | 132072 | 1720 | QPSK | 1 | 99 | 19.39 | 19.18 | 30 | -10.82 |
| | 132072 | 1720 | UPSK | 50 | 25 | 19.33 | 19.12 | 30 | -10.88 |
| | | | | 100 | 0 | 19.38 | 19.17 | 30 | -10.83 |
| | | | | 1 | 0 | 19.40 | 19.19 | 30 | -10.81 |
| | 132322 | 1745 | QPSK | 1 | 99 | 19.47 | 19.26 | 30 | -10.74 |
| | 132322 | 1740 | UPSK | 50 | 25 | 19.44 | 19.23 | 30 | -10.77 |
| | | | | 100 | 0 | 19.42 | 19.21 | 30 | -10.79 |
| | | | | 1 | 0 | 19.48 | 19.27 | 30 | -10.73 |
| | 132572 | 1770 | QPSK | 1 | 99 | 19.43 | 19.22 | 30 | -10.78 |
| | 132372 | 1770 | UPSK | 50 | 25 | 19.44 | 19.23 | 30 | -10.77 |
| | | | | 100 | 0 | 19.39 | 19.18 | 30 | -10.82 |
| | | | | 1 | 0 | 19.41 | 19.20 | 30 | -10.8 |
| | 132072 | 1720 | 16QAM | 1 | 99 | 19.33 | 19.12 | 30 | -10.88 |
| | 132072 | 1720 | TOQAW | 50 | 25 | 19.44 | 19.23 | 30 | -10.77 |
| | | | | 100 | 0 | 19.34 | 19.13 | 30 | -10.87 |
| | | | 16QAM | 1 | 0 | 19.46 | 19.25 | 30 | -10.75 |
| 20 | 132322 | 1745 | | 1 | 99 | 19.41 | 19.20 | 30 | -10.8 |
| 20 | 132322 | 1740 | TOQAW | 50 | 25 | 19.32 | 19.11 | 30 | -10.89 |
| | | | | 100 | 0 | 19.44 | 19.23 | 30 | -10.77 |
| | | | | 1 | 0 | 19.37 | 19.16 | 30 | -10.84 |
| | 132572 | 1770 | 16QAM | 1 | 99 | 19.39 | 19.18 | 30 | -10.82 |
| | 132372 | 1770 | TOQAW | 50 | 25 | 19.45 | 19.24 | 30 | -10.76 |
| | | | | 100 | 0 | 19.42 | 19.21 | 30 | -10.79 |
| | | | | 1 | 0 | 19.37 | 19.16 | 30 | -10.84 |
| | 132072 | 1720 | 440011 | 1 | 99 | 19.40 | 19.19 | 30 | -10.81 |
| | 132072 | 1720 | 64QAM | 50 | 25 | 19.28 | 19.07 | 30 | -10.93 |
| | | | | 100 | 0 | 19.42 | 19.21 | 30 | -10.79 |
| | | | | 1 | 0 | 19.47 | 19.26 | 30 | -10.74 |
| | 122222 | 1745 | 64QAM | 1 | 99 | 19.42 | 19.21 | 30 | -10.79 |
| | 132322 | 1/40 | 04QAIVI | 50 | 25 | 19.42 | 19.21 | 30 | -10.79 |
| | | | | 100 | 0 | 19.29 | 19.08 | 30 | -10.92 |
| | | | | 1 | 0 | 19.31 | 19.10 | 30 | -10.9 |
| | 122572 | 1770 | 440011 | 1 | 99 | 19.31 | 19.10 | 30 | -10.9 |
| | 132572 | 1770 | 64QAM | 50 | 25 | 19.35 | 19.14 | 30 | -10.86 |
| | | | | 100 | 0 | 19.34 | 19.13 | 30 | -10.87 |

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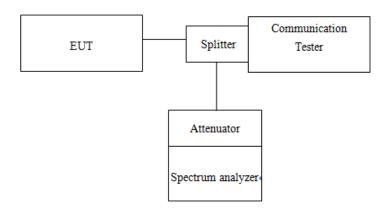
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7. OCCUPIED BANDWIDTH MEASUREMENT

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%.

Massurament Equipment Used

| Condu | Conducted Emission (measured at antenna port) Test Site | | | | | | | | | | |
|-----------------------------|---|------------|------------|------------|------------|--|--|--|--|--|--|
| EQUIPMENT | MFR | MODEL | SERIAL | LAST | CAL DUE. | | | | | | |
| TYPE | | NUMBER | NUMBER | CAL. | | | | | | | |
| DC Block | PASTERNACK | PE8210 | RF256 | 02/26/2019 | 02/25/2020 | | | | | | |
| Spectrum Analyzer | Agilent | N9010A | MY53400256 | 11/21/2018 | 11/20/2019 | | | | | | |
| DC Power Supply | Agilent | E3640A | MY53130054 | 09/03/2018 | 09/02/2019 | | | | | | |
| TEMPERATURE | TEMPERA- TURE | HTC-1 | EC-HY-01 | 04/18/2019 | 04/17/2020 | | | | | | |
| Splitter | Woken | DOM35LW1A2 | RF83 | 02/26/2019 | 02/25/2020 | | | | | | |
| Attenuator | Marvelous | MVE2213-10 | RF80 | 02/26/2019 | 02/25/2020 | | | | | | |
| Radio Communication Analyer | Anritsu | MT8820C | 6201465317 | 01/16/2019 | 01/15/2020 | | | | | | |

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7.5. Measurement Result

| Freq. | | 99 | % BW (MH | lz) | 26 dB BW (MHz) | | | |
|---------|------|-------------|-------------|-------------|----------------|-------------|-------------|--|
| (MHz) | СН | WCDMA II | HSDPA II | HSUPA II | WCDMA II | HSDPA II | HSUPA II | |
| 1852.40 | 9262 | 4.05790 | 4.05810 | 4.05720 | 4.604 | 4.626 | 4.593 | |
| 1880.00 | 9400 | 4.06860 | 4.05910 | 4.04940 | 4.587 | 4.574 | 4.576 | |
| 1907.60 | 9538 | 4.07350 | 4.06150 | 4.06150 | 4.613 | 4.610 | 4.585 | |

| Freq. (MHz) | СН | 99 | % BW (MH | lz) | 26 dB BW (MHz) | | | |
|----------------|---------|-------|----------|---------|----------------|-------|-------|-------|
| | | WCDMA | HSDPA | HSUPA | WCDMA | HSDPA | HSUPA | |
| (IVII I | (IVIHZ) | | IV | IV | IV | IV | IV | IV |
| 1712. | 40 | 1312 | 4.06820 | 4.05300 | 4.06250 | 4.598 | 4.589 | 4.598 |
| 1732. | 60 | 1413 | 4.07450 | 4.06590 | 4.06410 | 4.633 | 4.589 | 4.608 |
| 1752. | 60 | 1513 | 4.06650 | 4.06010 | 4.07400 | 4.602 | 4.602 | 4.610 |

| | Freq. (MHz) | | 99 | % BW (MH | lz) | 26 dB BW (MHz) | | | |
|-----|----------------|------|---------|----------|---------|----------------|-------|-------|--|
| | | СН | WCDMA | HSDPA | HSUPA | WCDMA | HSDPA | HSUPA | |
| (1) | | | V | V | V | V | V | V | |
| 82 | 26.40 | 4132 | 4.06840 | 4.07270 | 4.07080 | 4.606 | 4.607 | 4.594 | |
| 83 | 36.60 | 4183 | 4.05560 | 4.05890 | 4.05800 | 4.591 | 4.577 | 4.577 | |
| 84 | 16.60 | 4233 | 4.07610 | 4.08220 | 4.08030 | 4.613 | 4.601 | 4.629 | |

| | LTE BAND 2 Channel bandwidth: 1.4MHz | | | | | | | | | | |
|--------|--------------------------------------|--------|-----------|--------|-------|----------------|-------|--|--|--|--|
| Freq. | СН | 99 | 9% BW (MI | Hz) | 26 | 26 dB BW (MHz) | | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | |
| 1850.7 | 18607 | 1.1055 | 1.1037 | 1.1086 | 1.251 | 1.252 | 1.261 | | | | |
| 1880.0 | 18900 | 1.1037 | 1.1067 | 1.1064 | 1.258 | 1.260 | 1.259 | | | | |
| 1909.3 | 19193 | 1.1083 | 1.1140 | 1.1035 | 1.257 | 1.254 | 1.259 | | | | |

| | LTE BAND 2 Channel bandwidth: 3MHz | | | | | | | | | | | |
|----------------|------------------------------------|--------|----------|--------|----------------|-------|-------|--|--|--|--|--|
| Freq. (MHz) | СН | 99 | % BW (MH | lz) | 26 dB BW (MHz) | | | | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | | |
| 1851.5 | 18615 | 2.7283 | 2.7252 | 2.7308 | 3.010 | 3.021 | 3.017 | | | | | |
| 1880.0 | 18900 | 2.7319 | 2.7242 | 2.7131 | 3.011 | 3.003 | 3.031 | | | | | |
| 1908.5 | 19185 | 2.7328 | 2.7181 | 2.7219 | 3.148 | 3.024 | 3.019 | | | | | |

| | LTE BAND 2 Channel bandwidth: 5MHz | | | | | | | | | | |
|--------|------------------------------------|--------|-----------|----------------|-------|-------|-------|--|--|--|--|
| Freq. | СН | 99 | 9% BW (MI | 26 dB BW (MHz) | | | | | | | |
| (MHz) | CII | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | |
| 1852.5 | 18625 | 4.5274 | 4.5191 | 4.5270 | 4.980 | 5.015 | 4.966 | | | | |
| 1880.0 | 18900 | 4.5162 | 4.5080 | 4.5108 | 4.967 | 4.947 | 4.966 | | | | |
| 1907.5 | 19175 | 4.5379 | 4.5118 | 4.5134 | 5.054 | 4.975 | 5.101 | | | | |

| LTE BAND 2 Channel bandwidth: 10MHz | | | | | | | | | | |
|-------------------------------------|-------|--------|--------------|--------|--------|----------------|--------|--|--|--|
| Freq. | СН | 99 | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | |
| (MHz) | CII | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | |
| 1855.0 | 18650 | 9.0795 | 9.1180 | 9.0777 | 10.490 | 10.581 | 10.467 | | | |
| 1880.0 | 18900 | 9.0790 | 9.0642 | 9.0578 | 10.368 | 10.442 | 10.925 | | | |
| 1905.0 | 19150 | 9.0659 | 9.0402 | 9.0536 | 10.487 | 10.425 | 10.468 | | | |

| | LTE BAND 2 Channel bandwidth: 15MHz | | | | | | | | | | |
|--------|-------------------------------------|--------|-----------|--------|----------------|--------|--------|--|--|--|--|
| Freq. | СН | 99 | 9% BW (MI | Hz) | 26 dB BW (MHz) | | | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | |
| 1857.5 | 18675 | 13.541 | 13.562 | 13.561 | 15.697 | 15.544 | 15.752 | | | | |
| 1880.0 | 18900 | 13.549 | 13.555 | 13.534 | 15.617 | 15.736 | 15.654 | | | | |
| 1902.5 | 19125 | 13.500 | 13.487 | 13.458 | 15.792 | 15.576 | 15.547 | | | | |

| | LTE BAND 2 Channel bandwidth: 20MHz | | | | | | | | | |
|--------|-------------------------------------|--------|----------|--------|----------------|--------|--------|--|--|--|
| Freq. | СН | 99 | % BW (MH | lz) | 26 dB BW (MHz) | | | | | |
| (MHz) | CII | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | |
| 1860.0 | 18700 | 18.047 | 18.035 | 18.005 | 20.122 | 20.008 | 20.032 | | | |
| 1880.0 | 18900 | 18.026 | 18.016 | 17.995 | 20.020 | 20.275 | 19.992 | | | |
| 1900.0 | 19100 | 17.913 | 17.902 | 17.919 | 20.065 | 19.814 | 20.298 | | | |

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| | LTE BAND 4 Channel bandwidth: 1.4MHz | | | | | | | | | | |
|--------|--------------------------------------|--------|-----------|--------|----------------|-------|-------|--|--|--|--|
| Freq. | СН | 99 | 9% BW (MI | Hz) | 26 dB BW (MHz) | | | | | | |
| (MHz) | CH | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | |
| 1710.7 | 19957 | 1.1097 | 1.1107 | 1.1079 | 1.264 | 1.263 | 1.254 | | | | |
| 1732.5 | 20175 | 1.1035 | 1.1058 | 1.1074 | 1.263 | 1.260 | 1.257 | | | | |
| 1754.3 | 20393 | 1.1105 | 1.1055 | 1.1143 | 1.257 | 1.263 | 1.262 | | | | |

| | LTE BAND 4 Channel bandwidth: 3MHz | | | | | | | | | | |
|--------|------------------------------------|--------|--------------------------|--------|-------|-------|-------|--|--|--|--|
| Freq. | СН | 90 | 99% BW (MHz) 26 dB BW (N | | | | | | | | |
| (MHz) | CH | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | |
| 1711.5 | 19965 | 2.7185 | 2.7308 | 2.7262 | 3.011 | 3.018 | 3.031 | | | | |
| 1732.5 | 20175 | 2.7211 | 2.7276 | 2.7153 | 3.032 | 3.015 | 3.005 | | | | |
| 1753.5 | 20385 | 2.7169 | 2.7136 | 2.7142 | 3.015 | 3.017 | 3.020 | | | | |

| | LTE BAND 4 Channel bandwidth: 5MHz | | | | | | | | | |
|---|------------------------------------|-------|--------------|--------|--------|----------------|-------|-------|--|--|
| Γ | Freq. | СН | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | |
| | (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | |
| | 1712.5 | 19957 | 4.5311 | 4.5247 | 4.5159 | 4.963 | 4.933 | 4.989 | | |
| | 1732.5 | 20175 | 4.5178 | 4.5103 | 4.5200 | 4.963 | 4.971 | 4.952 | | |
| | 1752.5 | 20375 | 4.5255 | 4.5100 | 4.5195 | 4.974 | 4.957 | 4.959 | | |

| | LTE BAND 4 Channel bandwidth: 10MHz | | | | | | | | | | |
|--------|-------------------------------------|--|--------|--------|----------------|--------|--------|--|--|--|--|
| Freq. | СН | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | |
| 1715.0 | 20000 | 9.0612 | 9.0951 | 9.0896 | 10.442 | 10.573 | 10.542 | | | | |
| 1732.5 | 20175 | 9.0719 | 9.0851 | 9.0771 | 10.515 | 10.487 | 10.536 | | | | |
| 1750.0 | 20350 | 9.0861 9.0624 9.0914 10.526 10.491 10.4 | | | | | | | | | |

| | LTE BAND 4 Channel bandwidth: 15MHz | | | | | | | | | |
|--|--------------------------------------|--------|-----------|--------|--------|----------|--------|--|--|--|
| Freq. | СН | 99 | 9% BW (MI | Hz) | 26 | dB BW (M | Hz) | | | |
| (MHz) | CH | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | |
| 1717.5 | 20025 | 13.505 | 13.533 | 13.506 | 15.414 | 15.680 | 15.574 | | | |
| 1732.5 | 20175 | 13.548 | 13.549 | 13.522 | 15.811 | 15.834 | 15.555 | | | |
| 1747.5 20325 13.572 13.568 13.571 15.504 15.826 15.8 | | | | | | | | | | |
| | LTE BAND 5 Channel bandwidth: 1.4MHz | | | | | | | | | |

| | LTE BAND 4 Channel bandwidth: 20MHz | | | | | | | | | | |
|--------|-------------------------------------|--------|-----------|--------|----------------|--------|--------|--|--|--|--|
| Freq. | Freq. CH | 99 | 9% BW (MI | Hz) | 26 dB BW (MHz) | | | | | | |
| (MHz) | CII | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | |
| 1720.0 | 20050 | 17.948 | 17.954 | 17.936 | 19.902 | 19.888 | 19.927 | | | | |
| 1732.5 | 20175 | 18.016 | 18.041 | 18.017 | 20.020 | 20.108 | 19.973 | | | | |
| 1745.0 | 20300 | 18.065 | 18.068 | 18.076 | 20.083 | 20.227 | 20.344 | | | | |

| | LTE BAND 5 Channel bandwidth: 1.4MHz | | | | | | | | | | | |
|-------|--------------------------------------|--------------|--------|--------|----------------|-------|-------|--|--|--|--|--|
| Freq. | Freq. CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | | | | |
| (MHz) | CII | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | | |
| 824.7 | 20407 | 1.1083 | 1.1088 | 1.1057 | 1.258 | 1.259 | 1.258 | | | | | |
| 836.5 | 20525 | 1.1032 | 1.1123 | 1.1093 | 1.263 | 1.259 | 1.259 | | | | | |
| 848.3 | 20643 | 1.1077 | 1.1165 | 1.1042 | 1.258 | 1.262 | 1.260 | | | | | |

| | LTE BAND 5 Channel bandwidth: 3MHz | | | | | | | | | | | |
|-------|------------------------------------|--------|----------|--------|----------------|-------|-------|--|--|--|--|--|
| Freq. | СН | 99 | % BW (MH | lz) | 26 dB BW (MHz) | | | | | | | |
| (MHz) | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | | |
| 825.5 | 20415 | 2.7401 | 2.7169 | 2.7173 | 3.012 | 3.017 | 3.014 | | | | | |
| 836.5 | 20525 | 2.7181 | 2.7204 | 2.7201 | 3.019 | 3.011 | 3.000 | | | | | |
| 847.5 | 20635 | 2.7299 | 2.7296 | 2.7163 | 3.021 | 3.026 | 3.016 | | | | | |

| | LTE BAND 5 Channel bandwidth: 5MHz | | | | | | | | | | |
|-------|------------------------------------|--------|--------------------------|--------|-------|-------|-------|--|--|--|--|
| Freq. | СН | 99 | 99% BW (MHz) 26 dB BW (M | | | | | | | | |
| (MHz) | CII | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | |
| 826.5 | 20425 | 4.5225 | 4.5292 | 4.5077 | 4.949 | 4.983 | 4.951 | | | | |
| 836.5 | 20525 | 4.5229 | 4.5173 | 4.5187 | 5.003 | 4.998 | 4.978 | | | | |
| 846.5 | 20625 | 4.5389 | 4.5174 | 4.5289 | 4.998 | 4.980 | 4.948 | | | | |

| LTE BAND 5 Channel bandwidth: 10MHz | | | | | | | | | | | |
|-------------------------------------|-------|--------|----------|--------|----------------|--------|--------|--|--|--|--|
| Freq. | СН | 99 | % BW (MH | lz) | 26 dB BW (MHz) | | | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | |
| 829.0 | 20450 | 9.1097 | 9.0761 | 9.0991 | 10.627 | 10.546 | 10.543 | | | | |
| 836.5 | 20525 | 9.0522 | 9.0415 | 9.0472 | 10.437 | 10.429 | 10.506 | | | | |
| 844.0 | 20600 | 9.1136 | 9.1156 | 9.1206 | 10.586 | 10.666 | 10.554 | | | | |

| LTE BAND 7 Channel bandwidth: 5MHz | | | | | | | | | | | | |
|------------------------------------|-------|--------|-----------|--------|----------------|-------|-------|--|--|--|--|--|
| Freq. | СН | 99 | 9% BW (MI | Hz) | 26 dB BW (MHz) | | | | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | | |
| 2502.5 | 20775 | 4.5213 | 4.5093 | 4.5175 | 4.945 | 4.965 | 4.989 | | | | | |
| 2535.0 | 21100 | 4.5190 | 4.5193 | 4.5166 | 5.025 | 4.954 | 4.929 | | | | | |
| 2567.5 | 21425 | 4.5222 | 4.5212 | 4.5172 | 4.963 | 4.979 | 4.965 | | | | | |

| | LTE BAND 7 Channel bandwidth: 10MHz | | | | | | | | | | | |
|--------|-------------------------------------|--------|--------------|--------|--------|----------------|--------|--|--|--|--|--|
| Freq. | СН | 99 | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | | |
| 2505.0 | 20800 | 9.0947 | 9.0781 | 9.0833 | 10.523 | 10.583 | 10.580 | | | | | |
| 2535.0 | 21100 | 9.0718 | 9.0625 | 9.0896 | 10.536 | 10.455 | 10.606 | | | | | |
| 2565.0 | 21400 | 9.0509 | 9.0481 | 9.0631 | 10.456 | 10.472 | 10.525 | | | | | |

| | LTE BAND 7 Channel bandwidth: 15MHz | | | | | | | | | | | |
|--------|-------------------------------------|--------------|--------|--------|----------------|--------|--------|--|--|--|--|--|
| Freq. | СН | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | | | | |
| (MHz) | CH | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | | |
| 2507.5 | 20825 | 13.571 | 13.574 | 13.562 | 15.898 | 15.937 | 15.647 | | | | | |
| 2535.0 | 21100 | 13.544 | 13.531 | 13.511 | 15.522 | 15.644 | 15.595 | | | | | |
| 2562.5 | 21375 | 13.528 | 13.514 | 13.529 | 15.715 | 15.537 | 15.654 | | | | | |

| | LTE BAND 7 Channel bandwidth: 20MHz | | | | | | | | | | | |
|--------|-------------------------------------|--------------|--------|--------|----------------|--------|--------|--|--|--|--|--|
| Freq. | СН | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | | |
| 2510.0 | 20850 | 18.083 | 18.099 | 18.066 | 20.293 | 20.537 | 20.670 | | | | | |
| 2535.0 | 21100 | 17.982 | 18.003 | 17.993 | 20.115 | 20.075 | 19.872 | | | | | |
| 2560.0 | 21350 | 17.981 | 18.031 | 17.997 | 19.982 | 20.095 | 20.204 | | | | | |

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| | LTE BAND 12 Channel bandwidth: 1.4MHz | | | | | | | | | | | |
|-------|---------------------------------------|--------|-----------|--------|----------------|-------|-------|--|--|--|--|--|
| Freq. | СН | 99 | 9% BW (MI | Hz) | 26 dB BW (MHz) | | | | | | | |
| (MHz) | CII | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | | |
| 699.7 | 23017 | 1.1078 | 1.1012 | 1.1037 | 1.257 | 1.250 | 1.255 | | | | | |
| 707.5 | 23095 | 1.1010 | 1.1012 | 1.1019 | 1.253 | 1.252 | 1.253 | | | | | |
| 715.3 | 23173 | 1.1047 | 1.1075 | 1.1043 | 1.253 | 1.254 | 1.249 | | | | | |

| | LTE BAND 12 Channel bandwidth: 3MHz | | | | | | | | | | | |
|-------|-------------------------------------|--------|----------|--------|----------------|-------|-------|--|--|--|--|--|
| Freq. | СН | 99 | % BW (MH | lz) | 26 dB BW (MHz) | | | | | | | |
| (MHz) | CII | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | | |
| 700.5 | 23025 | 2.7162 | 2.7123 | 2.7180 | 3.006 | 2.996 | 3.008 | | | | | |
| 707.5 | 23095 | 2.7287 | 2.7237 | 2.7189 | 3.010 | 3.002 | 3.007 | | | | | |
| 714.5 | 23165 | 2.7283 | 2.7209 | 2.7170 | 3.001 | 2.997 | 3.001 | | | | | |

| LTE BAND 12 Channel bandwidth: 5MHz | | | | | | | | | | | |
|-------------------------------------|-------|--------------|--------|--------|----------------|-------|-------|--|--|--|--|
| Freq. | СН | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | |
| 701.5 | 23035 | 4.5034 | 4.5081 | 4.5086 | 4.964 | 4.935 | 4.952 | | | | |
| 707.5 | 23095 | 4.5129 | 4.5059 | 4.5063 | 4.925 | 4.945 | 4.939 | | | | |
| 713.5 | 23155 | 4.5073 | 4.5069 | 4.5009 | 4.925 | 4.941 | 4.936 | | | | |

| | LTE BAND 12 Channel bandwidth: 10MHz | | | | | | | | | | | |
|-------|--------------------------------------|--------|----------|--------|----------------|--------|--------|--|--|--|--|--|
| Freq. | СН | 99 | % BW (MH | lz) | 26 dB BW (MHz) | | | | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | | |
| 704.0 | 23060 | 9.0813 | 9.0943 | 9.0841 | 10.443 | 10.531 | 10.631 | | | | | |
| 707.5 | 23095 | 9.0979 | 9.0816 | 9.0965 | 10.528 | 10.508 | 10.455 | | | | | |
| 711.0 | 23130 | 9.0097 | 9.0065 | 9.0131 | 10.525 | 10.471 | 10.534 | | | | | |

| | LTE BAND 13 Channel bandwidth: 5MHz | | | | | | | | | | | |
|-------|-------------------------------------|--------|-----------|--------|----------------|-------|-------|--|--|--|--|--|
| Freq. | СН | 99 | 9% BW (MI | Hz) | 26 dB BW (MHz) | | | | | | | |
| (MHz) | CH | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | | |
| 779.5 | 23205 | 4.5371 | 4.5165 | 4.5226 | 4.954 | 4.930 | 5.006 | | | | | |
| 782.0 | 23230 | 4.5034 | 4.4972 | 4.4943 | 4.933 | 4.938 | 4.938 | | | | | |
| 784.5 | 23255 | 4.5060 | 4.5002 | 4.5085 | 4.913 | 4.960 | 4.953 | | | | | |

| | LTE BAND 13 Channel bandwidth: 10MHz | | | | | | | | | | | |
|-------|--------------------------------------|-------|-----------|-------|----------------|--------|--------|--|--|--|--|--|
| Freq. | СН | 99 | 9% BW (MI | Hz) | 26 dB BW (MHz) | | | | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | | |
| 782.0 | 23230 | 9.009 | 8.989 | 9.014 | 10.316 | 10.418 | 10.419 | | | | | |

| | LTE BAND 14 Channel bandwidth: 5MHz | | | | | | | | | | | |
|-------|-------------------------------------|--------|-----------|--------|-------|----------------|-------|--|--|--|--|--|
| Freq. | СН | 99 | 9% BW (MI | Hz) | 26 | 26 dB BW (MHz) | | | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | | |
| 790.5 | 23305 | 4.5006 | 4.5042 | 4.5066 | 4.955 | 4.949 | 4.947 | | | | | |
| 793.0 | 23330 | 4.5236 | 4.5018 | 4.5025 | 4.946 | 4.930 | 4.917 | | | | | |
| 795.5 | 23355 | 4.5119 | 4.5067 | 4.5228 | 4.987 | 5.025 | 4.960 | | | | | |

| | LTE BAND 14 Channel bandwidth: 10MHz | | | | | | | | | |
|-------|--------------------------------------|-------|-----------|-------|----------------|--------|--------|--|--|--|
| Freq. | СН | 99 | 9% BW (MI | Hz) | 26 dB BW (MHz) | | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | |
| 793.0 | 23330 | 9.045 | 9.021 | 8.993 | 10.536 | 10.325 | 10.389 | | | |

| LTE BAND 17 Channel bandwidth: 5MHz | | | | | | | | | |
|-------------------------------------|-------|--------|---------------------------|--------|-------|-------|-------|--|--|
| Freq. | СН | 99 | 99% BW (MHz) 26 dB BW (MH | | | | | | |
| (MHz) | CII | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | |
| 706.5 | 23755 | 4.5290 | 4.5025 | 4.5195 | 4.991 | 4.951 | 4.952 | | |
| 710.0 | 23790 | 4.5148 | 4.5120 | 4.5052 | 4.974 | 4.946 | 4.940 | | |
| 713.5 | 23825 | 4.5171 | 4.5029 | 4.5066 | 4.972 | 5.010 | 4.965 | | |

| LTE BAND 17 Channel bandwidth: 10MHz | | | | | | | | | | |
|--------------------------------------|-------|--------|----------------------------|--------|--------|--------|--------|--|--|--|
| Freq. | СН | 99 | 99% BW (MHz) 26 dB BW (MHz | | | | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | |
| 709.0 | 23780 | 9.0493 | 9.0550 | 9.0529 | 10.450 | 10.388 | 10.471 | | | |
| 710.0 | 23790 | 9.0221 | 9.0400 | 9.0298 | 10.364 | 10.476 | 10.471 | | | |
| 711.0 | 23800 | 9.0027 | 9.0162 | 9.0236 | 10.387 | 10.469 | 10.381 | | | |

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| | LTE BAND 25 Channel bandwidth: 1.4MHz | | | | | | | | | |
|----------|---------------------------------------|-----------|--------|----------------|-------|-------|-------|--|--|--|
| Freq. CH | 99 | 9% BW (MI | Hz) | 26 dB BW (MHz) | | | | | | |
| (MHz) | CII | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | |
| 1850.7 | 26047 | 1.1017 | 1.0998 | 1.0983 | 1.256 | 1.258 | 1.250 | | | |
| 1882.5 | 26365 | 1.1022 | 1.1048 | 1.1068 | 1.255 | 1.253 | 1.250 | | | |
| 1914.3 | 26683 | 1.1059 | 0.0000 | 0.0000 | 1.251 | 0.000 | 0.000 | | | |

| | LTE BAND 25 Channel bandwidth: 3MHz | | | | | | | | | |
|--------|-------------------------------------|--------|-------------------------|--------|-------|-------|-------|--|--|--|
| Freq. | СН | 99 | 99% BW (MHz) 26 dB BW (| | | | | | | |
| (MHz) | CII | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | |
| 1851.5 | 26055 | 2.7175 | 2.7142 | 2.7145 | 2.997 | 3.008 | 3.004 | | | |
| 1882.5 | 26365 | 2.7087 | 2.7185 | 2.7144 | 2.999 | 2.993 | 3.004 | | | |
| 1913.5 | 26675 | 2.7108 | 2.7152 | 2.7131 | 3.006 | 2.997 | 3.002 | | | |

| LTE BAND 25 Channel bandwidth: 5MHz | | | | | | | | | | |
|-------------------------------------|-------|--------------|--------|--------|----------------|-------|-------|--|--|--|
| Freq. | СН | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | |
| 1852.5 | 26065 | 4.5145 | 4.5138 | 4.5154 | 4.957 | 4.905 | 4.936 | | | |
| 1882.5 | 26365 | 4.5210 | 4.5122 | 4.5129 | 4.972 | 4.953 | 4.955 | | | |
| 1912.5 | 26665 | 4.5110 | 4.5099 | 4.5003 | 4.963 | 4.925 | 4.905 | | | |

| | LTE BAND 25 Channel bandwidth: 10MHz | | | | | | | | | |
|---|--------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|--|--|
| | Freq. | СН | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | |
| (| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | |
| 1 | 1855.0 | 26090 | 9.0819 | 9.0279 | 9.0601 | 10.483 | 10.362 | 10.550 | | |
| 1 | 1882.5 | 26365 | 9.0641 | 9.0307 | 9.0579 | 10.475 | 10.475 | 10.471 | | |
| 1 | 1910.0 | 26640 | 9.0698 | 9.0684 | 9.0683 | 10.465 | 10.415 | 10.517 | | |

| | LTE BAND 25 Channel bandwidth: 15MHz | | | | | | | | | |
|--------|--------------------------------------|--------------|--------|--------|----------------|--------|--------|--|--|--|
| Freq. | СН | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | | |
| (MHz) | CII | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | |
| 1857.5 | 26115 | 13.549 | 13.518 | 13.511 | 15.695 | 15.894 | 15.781 | | | |
| 1882.5 | 26365 | 13.534 | 13.518 | 13.543 | 15.603 | 15.525 | 15.557 | | | |
| 1907.5 | 26615 | 13.547 | 13.538 | 13.531 | 15.605 | 15.888 | 15.574 | | | |

| | LTE BAND 25 Channel bandwidth: 20MHz | | | | | | | | | |
|--------|--------------------------------------|--------------|---------|---------|----------------|--------|--------|--|--|--|
| Freq. | СН | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | | |
| (MHz) | CH | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | |
| 1860.0 | 26140 | 18.0270 | 18.1020 | 17.9900 | 20.111 | 20.341 | 19.992 | | | |
| 1882.5 | 26365 | 18.0050 | 18.0100 | 17.9660 | 20.087 | 20.056 | 19.936 | | | |
| 1905.0 | 26590 | 18.0030 | 18.0100 | 17.9780 | 20.064 | 19.901 | 19.922 | | | |

| | LTE BAND 26 Channel bandwidth: 1.4MHz | | | | | | | | | | |
|----------|---------------------------------------|--------------|--------|--------|----------------|-------|-------|--|--|--|--|
| Freq. CH | | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | | | |
| (MHz) | CH | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | | |
| 824.7 | 26797 | 1.1066 | 1.1033 | 1.1022 | 1.253 | 1.257 | 1.255 | | | | |
| 836.5 | 26915 | 1.1071 | 1.1020 | 1.1036 | 1.250 | 1.253 | 1.255 | | | | |
| 848.3 | 27033 | 1.0997 | 1.1102 | 1.1088 | 1.250 | 1.253 | 1.258 | | | | |

| LTE BAND 26 Channel bandwidth: 3MHz | | | | | | | | | |
|-------------------------------------|-------|--------|----------|--------|----------------|-------|-------|--|--|
| Freq. | СН | 99 | % BW (MH | lz) | 26 dB BW (MHz) | | | | |
| (MHz) | CH | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | |
| 825.5 | 26805 | 2.7131 | 2.7128 | 2.7223 | 2.991 | 3.007 | 3.004 | | |
| 836.5 | 26915 | 2.7188 | 2.7144 | 2.7169 | 2.998 | 3.005 | 2.990 | | |
| 847.5 | 27025 | 2.7289 | 2.7181 | 2.7179 | 3.019 | 2.998 | 3.001 | | |

| LTE BAND 26 Channel bandwidth: 5MHz | | | | | | | | | | |
|-------------------------------------|-------|--------|-----------|--------|----------------|-------|-------|--|--|--|
| Freq. | СН | 99 | 9% BW (MI | Hz) | 26 dB BW (MHz) | | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | | |
| 826.5 | 26815 | 4.5139 | 4.5065 | 4.4979 | 4.979 | 4.941 | 4.931 | | | |
| 836.5 | 26915 | 4.5280 | 4.5123 | 4.5133 | 4.974 | 4.961 | 4.929 | | | |
| 846.5 | 27015 | 4.5340 | 4.5189 | 4.5277 | 4.940 | 4.955 | 4.949 | | | |

| | | LTE BAN | D 26 Chan | nel bandwi | dth: 10MF | łz | |
|-------|-------|---------|-----------|------------|-----------|----------|--------|
| Freq. | СН | 99 | % BW (MH | z) | 26 | dB BW (M | Hz) |
| (MHz) | CII | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 829.0 | 26840 | 9.0709 | 9.0551 | 9.0762 | 10.558 | 10.504 | 10.495 |
| 836.5 | 26915 | 9.0508 | 9.0401 | 9.0316 | 10.332 | 10.539 | 10.508 |
| 844.0 | 26990 | 9.0981 | 9.0987 | 9.1626 | 10.618 | 10.554 | 10.562 |

| 1 | | | | | | | | |
|---|-------|-------|---------|------------|------------|-----------|----------|--------|
| | | | LTE BAN | ID 26 Char | nnel bandw | idth: 15M | Hz | |
| | Freq. | СН | 99 | 9% BW (MI | Hz) | 26 | dB BW (M | Hz) |
| | (MHz) | CII | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| | 831.5 | 26865 | 13.577 | 13.574 | 13.574 | 15.731 | 15.793 | 15.899 |
| | 836.5 | 26915 | 13.473 | 13.473 | 13.476 | 15.670 | 15.302 | 15.589 |
| | 841.5 | 26965 | 13.551 | 13.537 | 13.531 | 15.746 | 15.512 | 15.792 |

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| | LTE E | BAND 26 f | or part 90S | Channel I | oandwidth | : 1.4MHz | |
|-------|-------|-----------|-------------|-----------|-----------|----------|-------|
| Freq. | СН | 90 | 9% BW (MI | Hz) | 26 | dB BW (M | lHz) |
| (MHz) | Сп | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 814.7 | 26697 | 1.1007 | 1.1020 | 1.1056 | 1.252 | 1.257 | 1.254 |
| 819.0 | 26740 | 1.1022 | 1.1027 | 1.1081 | 1.253 | 1.254 | 1.250 |
| 823.3 | 26783 | 1.1041 | 1.1081 | 1.1000 | 1.252 | 1.257 | 1.257 |

| | LTE | BAND 26 | for part 90 | S Channel | bandwidtl | h: 3MHz | |
|-------|-------|---------|-------------|-----------|-----------|----------|-------|
| Freq. | СН | 99 | 9% BW (MI | Hz) | 26 | dB BW (M | Hz) |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 815.5 | 26705 | 2.7195 | 2.7151 | 2.7096 | 3.008 | 3.003 | 3.000 |
| 819.0 | 26740 | 2.7243 | 2.7160 | 2.7159 | 2.995 | 3.008 | 2.998 |
| 822.5 | 26775 | 2.7217 | 2.7118 | 2.7184 | 3.007 | 3.012 | 3.000 |

| | LTE | BAND 26 | for part 90 | S Channel | bandwidt | h: 5MHz | |
|-------|-------|---------|-------------|-----------|----------|----------|-------|
| Freq. | СН | 99 | 9% BW (MI | Hz) | 26 | dB BW (M | lHz) |
| (MHz) | CII | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 816.5 | 26715 | 4.5214 | 4.5081 | 4.5178 | 4.961 | 4.965 | 4.960 |
| 819.0 | 26740 | 4.5220 | 4.5042 | 4.5034 | 4.977 | 4.967 | 4.965 |
| 821.5 | 26765 | 4.5279 | 4.4987 | 4.5045 | 4.944 | 4.947 | 4.967 |

| | | LTE E | BAND 26 f | or part 909 | S Channel | bandwidth | : 10MHz | |
|---|----------------|-------|-----------|-------------|-----------|-----------|----------|--------|
| Γ | Freq. (MHz) | СН | 99 | 9% BW (MI | Hz) | 26 | dB BW (M | Hz) |
| | (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| Ī | 819.0 | 26740 | 9.0412 | 9.0107 | 9.0723 | 10.437 | 10.498 | 10.501 |
| - | | | | | | | | • |

| | | LTE BAI | ND 30 Cha | nnel bandv | vidth: 5MF | łz | |
|--------|-------|---------|-----------|------------|------------|----------|-------|
| Freq. | СН | 99 | 9% BW (MI | Hz) | 26 | dB BW (M | lHz) |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 2307.5 | 27685 | 4.5158 | 4.4986 | 4.5066 | 4.919 | 4.943 | 4.938 |
| 2310.0 | 27710 | 4.5135 | 4.5161 | 4.5037 | 4.964 | 4.947 | 4.970 |
| 2312.5 | 27735 | 4.5153 | 4.5069 | 4.5077 | 4.968 | 4.927 | 4.941 |

| | | LTE BAN | D 30 Chan | nel bandwi | dth: 10MH | lz | |
|--------|-------|---------|-----------|------------|-----------|----------|--------|
| Freq. | СН | 99 | % BW (MH | lz) | 26 | dB BW (M | Hz) |
| (MHz) | СП | QPSK | 16QAM | 64QAM | 16QAM | QPSK | 64QAM |
| 2310.0 | 27710 | 9.0455 | 9.0079 | 9.0483 | 10.522 | 10.385 | 10.498 |

| | | LTE BAI | ND 38 Cha | nnel bandv | vidth: 5MF | Ηz | |
|--------|-------|---------|-----------|------------|------------|----------|-------|
| Freq. | СН | 99 | 9% BW (MI | Hz) | 26 | dB BW (M | lHz) |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 2572.5 | 37775 | 4.5141 | 4.5022 | 4.5047 | 4.945 | 4.904 | 5.138 |
| 2595.0 | 38000 | 4.5033 | 4.5063 | 4.5240 | 5.036 | 4.939 | 4.941 |
| 2617.5 | 38225 | 4.5066 | 4.5053 | 4.5042 | 4.936 | 5.020 | 4.912 |

| | | LTE BAN | ID 38 Char | nnel bandw | ridth: 10M | Hz | |
|----------------|-------|---------|------------|------------|------------|----------|--------|
| Freq. (MHz) | СН | 99 | 9% BW (MI | Hz) | 26 | dB BW (M | Hz) |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 2575.0 | 37800 | 9.0741 | 9.0431 | 9.0325 | 10.487 | 10.426 | 10.273 |
| 2595.0 | 38000 | 9.0359 | 9.0240 | 9.0376 | 10.398 | 10.786 | 10.478 |
| 2615.0 | 38200 | 9.0547 | 9.0547 | 9.0357 | 10.479 | 10.394 | 10.441 |

LTE BAND 38 Channel bandwidth: 20MHz

10.495

10.553

9.0685

| | | LTE BAN | ID 38 Chai | nnel bandv | vidth: 15M | Hz | |
|--------|-------|---------|------------|------------|------------|----------|--------|
| Freq. | СН | 90 | 9% BW (M | Hz) | 26 | dB BW (N | ИHz) |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 2577.5 | 37825 | 13.530 | 13.564 | 13.514 | 15.694 | 16.278 | 15.919 |
| 2595.0 | 38000 | 13.529 | 13.582 | 13.512 | 15.539 | 15.968 | 15.730 |
| 2612.5 | 38175 | 13.485 | 13.540 | 13.545 | 15.734 | 15.570 | 15.824 |
| | | LTE BAN | ND 41 Cha | nnel bandv | vidth: 5MH | łz | |
| Freq. | СН | 99 | 9% BW (MI | Hz) | 26 | dB BW (M | Hz) |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 2498.5 | 39675 | 4.5194 | 4.5114 | 4.5059 | 4.903 | 5.189 | 5.052 |
| 2593.0 | 40620 | 4.5061 | 4.5047 | 4.5004 | 4.957 | 4.960 | 4.927 |
| 2687.5 | 41565 | 4.5266 | 4.5098 | 4.4958 | 4.948 | 4.927 | 4.930 |

| Freq. | СП | 99 | 9% BW (MI | Hz) | 26 | dB BW (M | Hz) |
|----------------|----------|---------|-----------------------|------------|-----------|----------------|--------------|
| (MHz) | QPS | | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 2580.0 | 37850 | 17.950 | 17.982 | 18.009 | 19.873 | 19.864 | 19.848 |
| 2595.0 | 38000 | 17.989 | 18.002 | 18.013 | 20.057 | 20.104 | 20.386 |
| 2610.0 | 38150 | 17.996 | 17.977 | 17.979 | 19.944 | 19.993 | 21.652 |
| | | | | | | | |
| • | | LTE BAN | D 41 Chan | nel bandwi | dth: 10MF | lz | |
| Freq. | CU | | D 41 Chan % BW (MF | | | lz dB BW (M | Hz) |
| Freq. (MHz) | СН | | | | | | Hz) 64QAM |
| | CH 39700 | 99 | % BW (MF | lz) | 26 | dB BW (M | |

9.0651

10.482

| LTE BAND 41 Channel bandwidth: 15MHz | | | | | | | | | |
|--------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|--|--|
| Freq. | СН | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | |
| (MHz) | CII | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | |
| 2503.5 | 39725 | 13.502 | 13.493 | 13.497 | 15.496 | 15.749 | 15.398 | | |
| 2593.0 | 40620 | 13.545 | 13.528 | 13.508 | 15.579 | 15.667 | 15.652 | | |
| 2682.5 | 41515 | 13.496 | 13.544 | 13.508 | 15.401 | 15.576 | 15.785 | | |

| LTE BAND 41 Channel bandwidth: 20MHz | | | | | | | | | |
|--------------------------------------|-------|--------------|--------|--------|----------------|--------|--------|--|--|
| Freq. | СН | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | |
| (MHz) | CII | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | |
| 2506.0 | 39750 | 17.983 | 18.010 | 17.944 | 19.396 | 19.889 | 19.825 | | |
| 2593.0 | 40620 | 17.988 | 17.976 | 18.016 | 20.029 | 20.181 | 20.758 | | |
| 2680.0 | 41490 | 18.009 | 17.991 | 17.973 | 19.881 | 20.049 | 20.192 | | |

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2685.0

41540

9.0365



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| LTE BAND 66 Channel bandwidth: 1.4MHz | | | | | | | | | |
|---------------------------------------|----------|--------|--------------|--------|-------|----------------|-------|--|--|
| Freq. | Freq. CH | | 99% BW (MHz) | | | 26 dB BW (MHz) | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | |
| 1710.7 | 131979 | 1.1015 | 1.1067 | 1.1047 | 1.255 | 1.257 | 1.258 | | |
| 1745.0 | 132322 | 1.1087 | 1.1015 | 1.1009 | 1.257 | 1.252 | 1.257 | | |
| 1779.3 | 132665 | 1.1004 | 1.1027 | 1.1005 | 1.250 | 1.252 | 1.255 | | |

| LTE BAND 66 Channel bandwidth: 3MHz | | | | | | | | | |
|-------------------------------------|--------|--------------|--------|--------|----------------|-------|-------|--|--|
| Freq. | СН | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | |
| 1711.5 | 131987 | 2.7168 | 2.7219 | 2.7224 | 2.994 | 3.009 | 3.020 | | |
| 1745.0 | 132322 | 2.7264 | 2.7225 | 2.7154 | 3.007 | 3.003 | 3.007 | | |
| 1778.5 | 132657 | 2.7245 | 2.7161 | 2.7239 | 3.000 | 3.005 | 3.001 | | |

| LTE BAND 66 Channel bandwidth: 5MHz | | | | | | | | | |
|-------------------------------------|--------------|--------|--------|----------------|-------|-------|-------|--|--|
| Freq. | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | | |
| (MHz) | СН | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | |
| 1712.5 | 131997 | 4.5163 | 4.5107 | 4.5070 | 4.969 | 4.975 | 4.950 | | |
| 1745.0 | 132322 | 4.5196 | 4.5104 | 4.5141 | 4.956 | 4.936 | 5.355 | | |
| 1777.5 | 132647 | 4.5104 | 4.5056 | 4.5140 | 4.989 | 4.957 | 4.954 | | |

| LTE BAND 66 Channel bandwidth: 10MHz | | | | | | | | | |
|--------------------------------------|--------|--------------|--------|--------|----------------|--------|--------|--|--|
| Freq. | СН | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | |
| 1715.0 | 132022 | 9.0930 | 9.0439 | 9.0838 | 10.634 | 10.396 | 10.551 | | |
| 1745.0 | 132322 | 9.0648 | 9.1094 | 9.0533 | 10.551 | 10.472 | 10.486 | | |
| 1775.0 | 132622 | 9.0793 | 9.0558 | 9.0958 | 10.509 | 10.520 | 10.675 | | |

| LTE BAND 66 Channel bandwidth: 15MHz | | | | | | | | | |
|--------------------------------------|--------|--------------|---------|---------|----------------|--------|--------|--|--|
| Freq. | СН | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | |
| 1717.5 | 132047 | 13.5460 | 13.4870 | 13.5070 | 15.681 | 15.393 | 15.687 | | |
| 1745.0 | 132322 | 13.5680 | 13.5570 | 13.5840 | 15.656 | 15.681 | 16.074 | | |
| 1772.5 | 132597 | 13.5940 | 13.5940 | 13.5920 | 15.998 | 15.641 | 15.496 | | |

| LTE BAND 66 Channel bandwidth: 20MHz | | | | | | | | | |
|--------------------------------------|--------|--------------|---------|---------|----------------|--------|--------|--|--|
| Freq. | СН | 99% BW (MHz) | | | 26 dB BW (MHz) | | | | |
| (MHz) | СП | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM | | |
| 1720.0 | 132072 | 17.9690 | 17.9660 | 17.9050 | 19.821 | 19.977 | 19.826 | | |
| 1745.0 | 132322 | 18.0360 | 18.0470 | 18.0120 | 20.102 | 20.089 | 20.268 | | |
| 1770.0 | 132572 | 18.0060 | 18.0000 | 17.9860 | 19.835 | 19.853 | 19.968 | | |

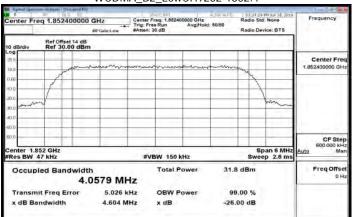
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家子方角就可。近根音級大理有關之後語具 「同時政権語程体管列大。本報音大陸本文司音曲計列・不可能的模製。
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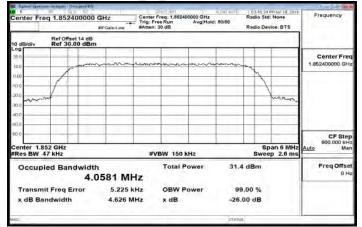


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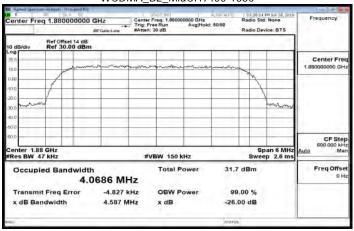
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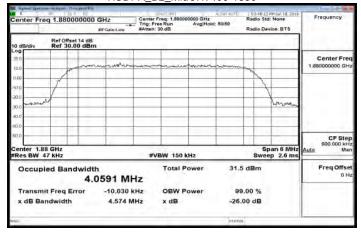
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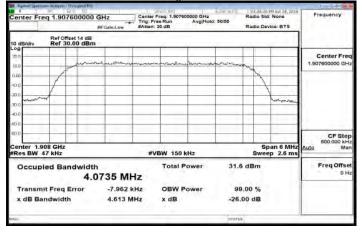
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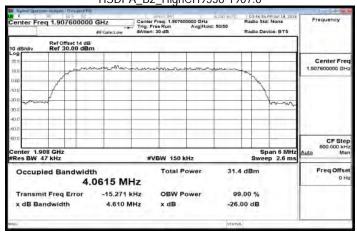
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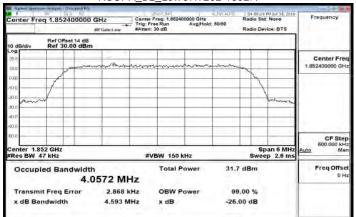
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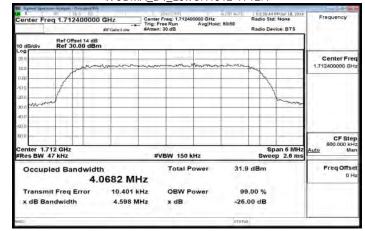


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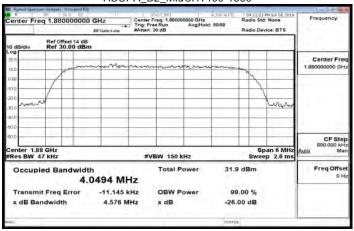
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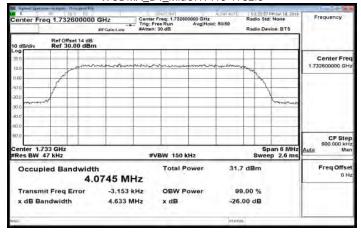
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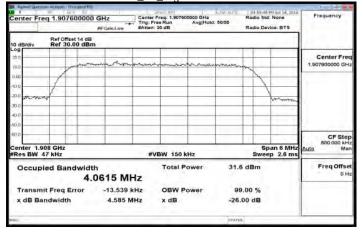
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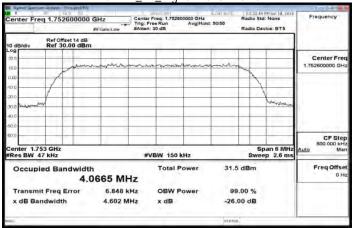
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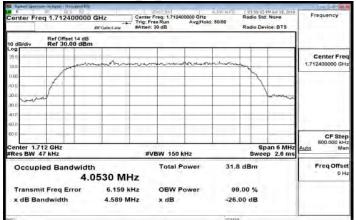
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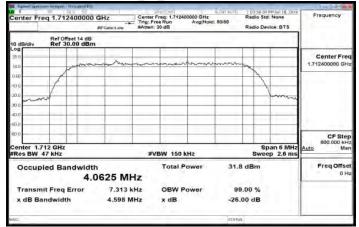


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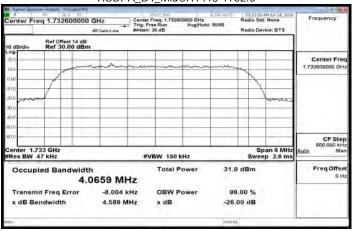
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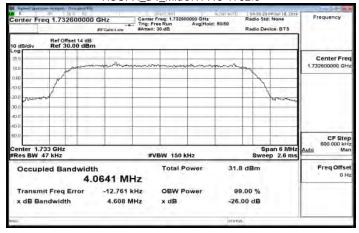
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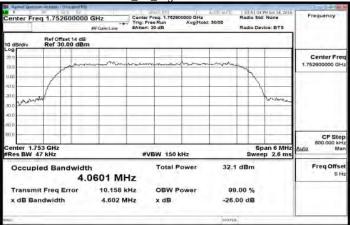
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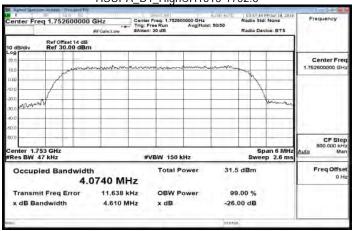
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HSUPA_B4_HighCH1513-1752.6



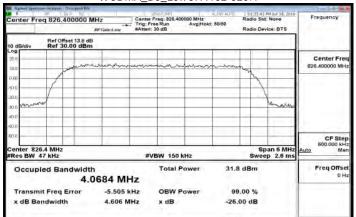
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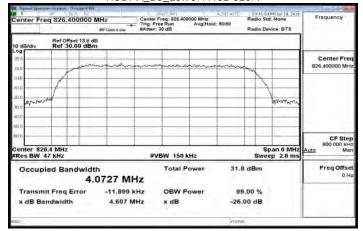


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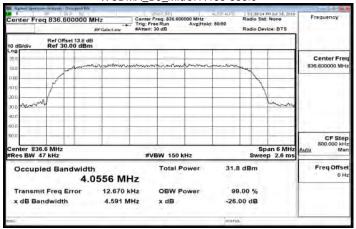
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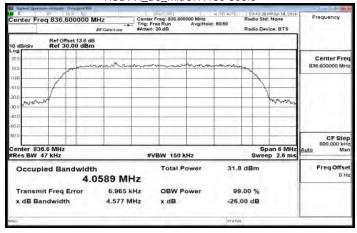
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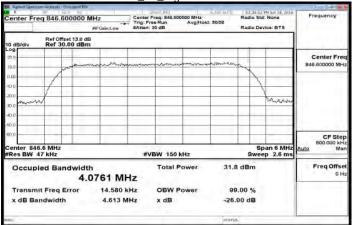
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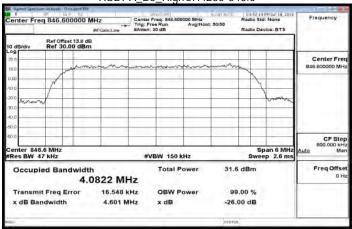
HSDPA B5 MidCH4183-836.6



WCDMA_B5_HighCH4233-846.6



HSDPA_B5_HighCH4233-846.6



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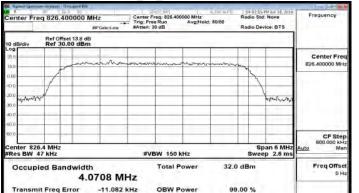
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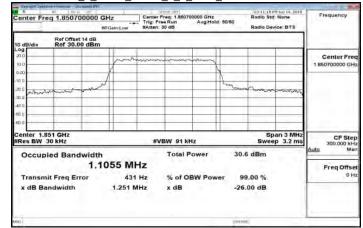
x dB Bandwidth

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HSUPA_B5_LowCH4132-826.4



Band2_1_4MHz_QPSK_6_0_Main_LowCH18607-1850.7

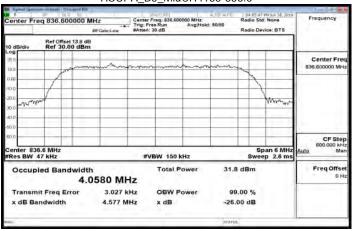


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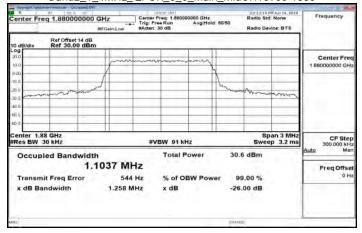
-26.00 dB

x dB

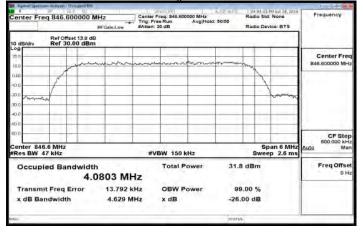
4.594 MHz



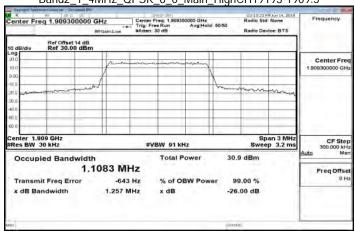
Band2 1 4MHz QPSK 6 0 Main MidCH18900-1880



HSUPA_B5_HighCH4233-846.6



Band2_1_4MHz_QPSK_6_0_Main_HighCH19193-1909.3



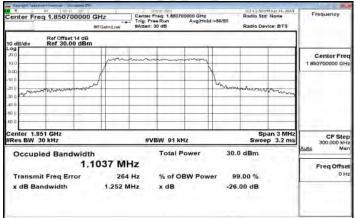
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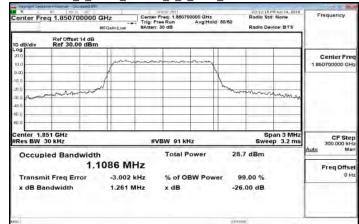


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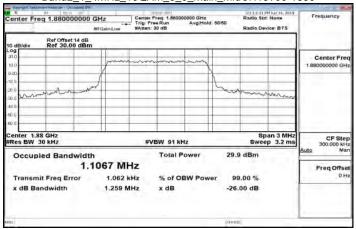
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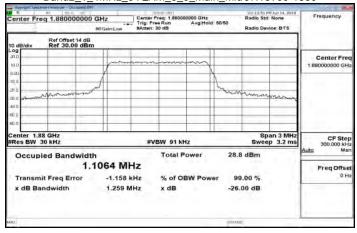
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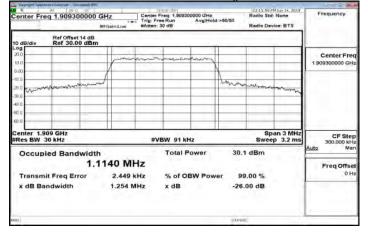
Band2 1 4MHz 16QAM 6 0 Main MidCH18900-1880



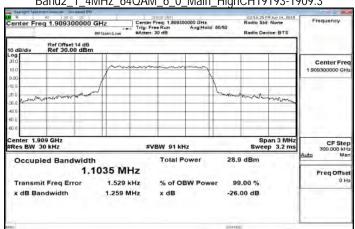
Band2 1 4MHz 64QAM 6 0 Main MidCH18900-1880



Band2_1_4MHz_16QAM_6_0_Main_HighCH19193-1909.3



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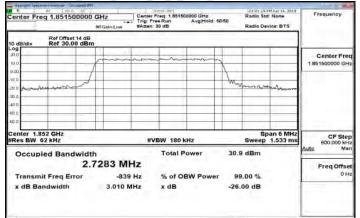
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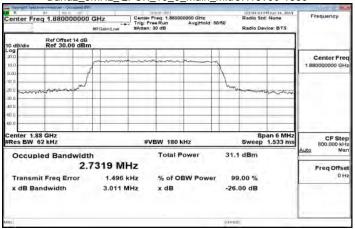
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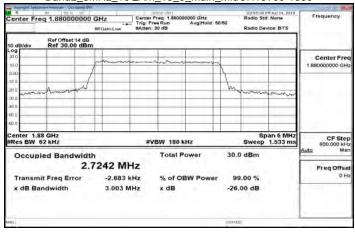
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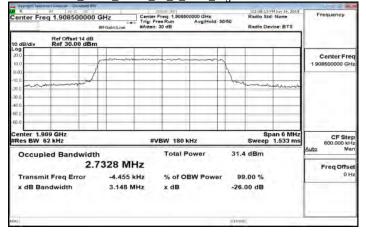
Band2 3MHz QPSK 15 0 Main MidCH18900-1880



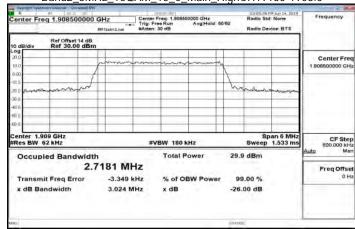
Band2 3MHz 16QAM 15 0 Main MidCH18900-1880



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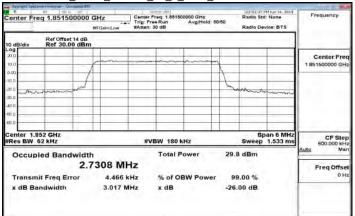
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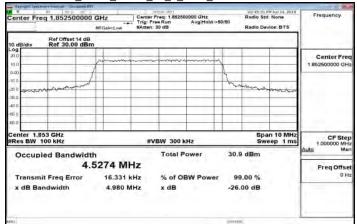


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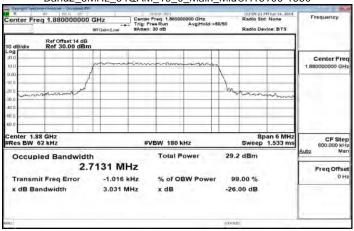
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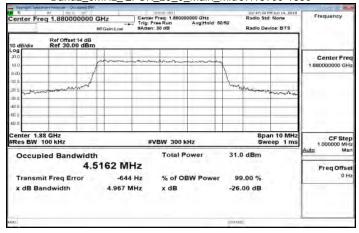
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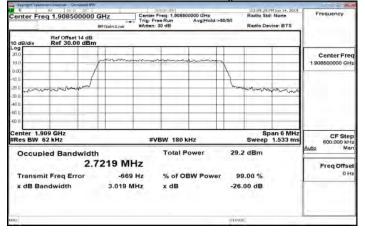
Band2 3MHz 64QAM 15 0 Main MidCH18900-1880



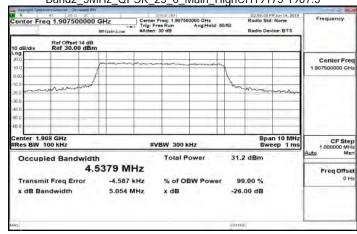
Band2_5MHz_QPSK_25_0_Main_MidCH18900-1880



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Band2_5MHz_QPSK_25_0_Main_HighCH19175-1907.5



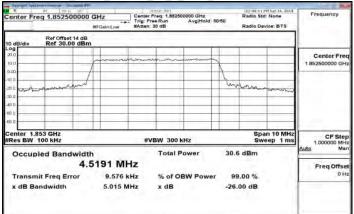
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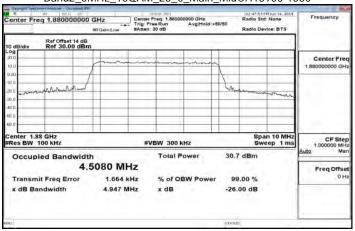
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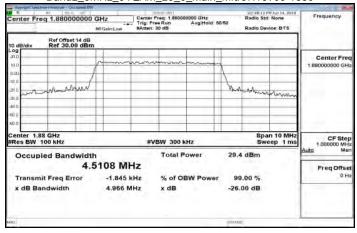
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Band2 5MHz 16QAM 25 0 Main MidCH18900-1880



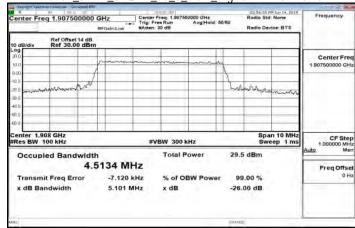
Band2 5MHz 64QAM 25 0 Main MidCH18900-1880



Band2_5MHz_16QAM_25_0_Main_HighCH19175-1907.5



Band2_5MHz_64QAM_25_0_Main_HighCH19175-1907.5



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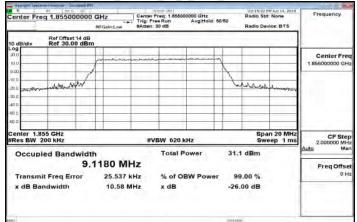


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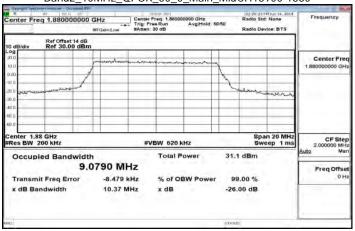
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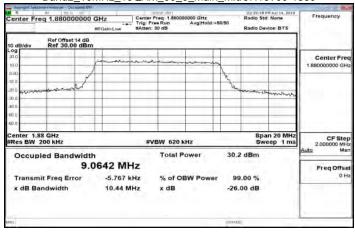
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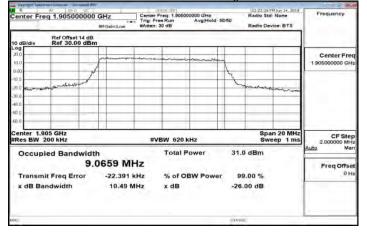
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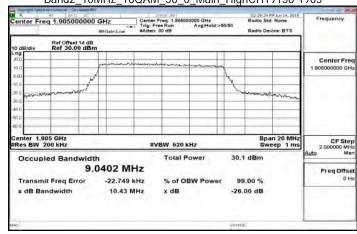
Band2 10MHz 16QAM 50 0 Main MidCH18900-1880



Band2_10MHz_QPSK_50_0_Main_HighCH19150-1905



Band2_10MHz_16QAM_50_0_Main_HighCH19150-1905



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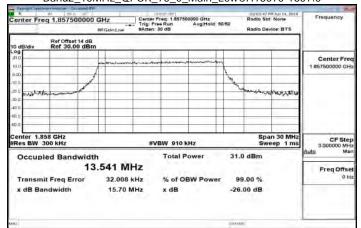


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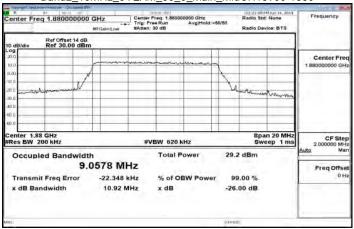
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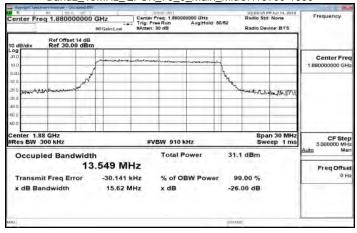
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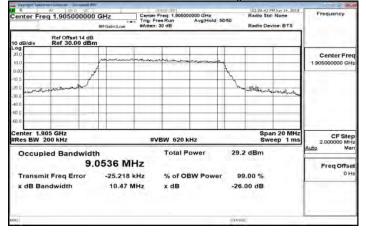
Band2 10MHz 64QAM 50 0 Main MidCH18900-1880



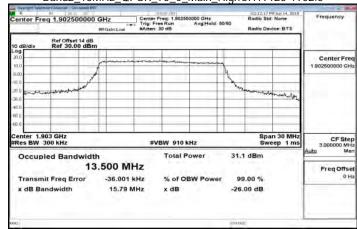
Band2 15MHz QPSK 75 0 Main MidCH18900-1880



Band2_10MHz_64QAM_50_0_Main_HighCH19150-1905



Band2_15MHz_QPSK_75_0_Main_HighCH19125-1902.5



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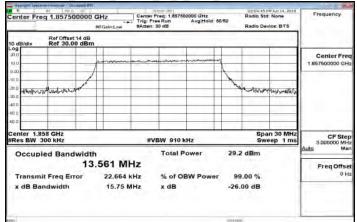


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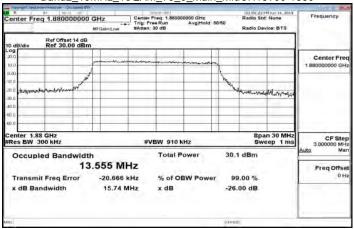
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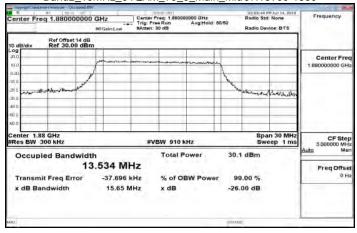
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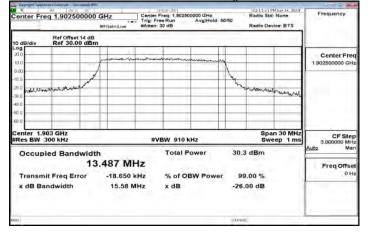
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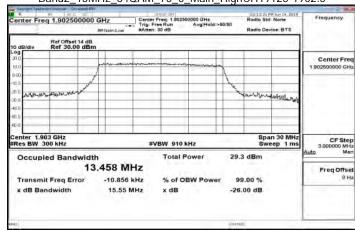
Band2 15MHz 64QAM 75 0 Main MidCH18900-1880



Band2_15MHz_16QAM_75_0_Main_HighCH19125-1902.5



Band2_15MHz_64QAM_75_0_Main_HighCH19125-1902.5



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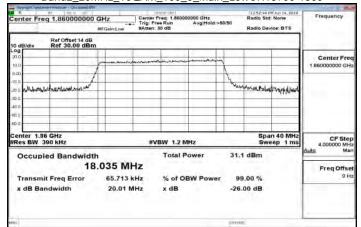


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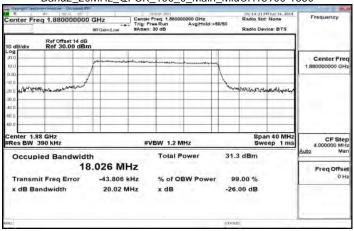
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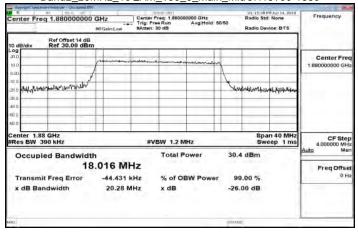
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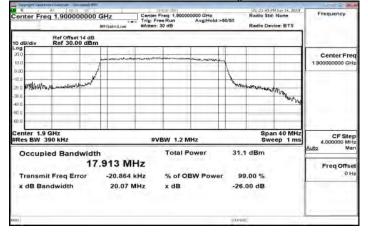
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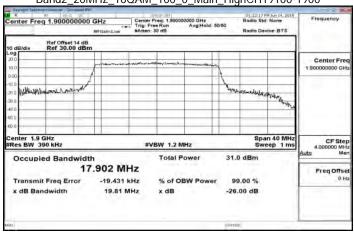
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Band2_20MHz_QPSK_100_0_Main_HighCH19100-1900



Band2_20MHz_16QAM_100_0_Main_HighCH19100-1900



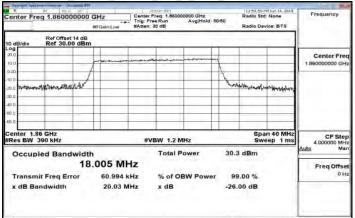
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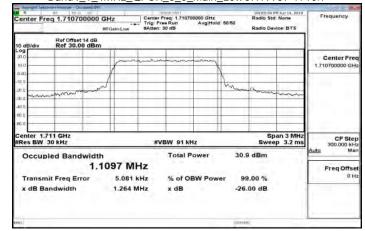


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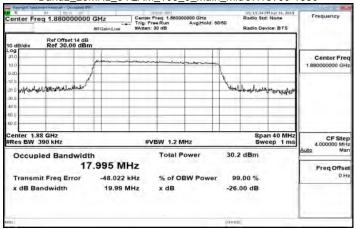
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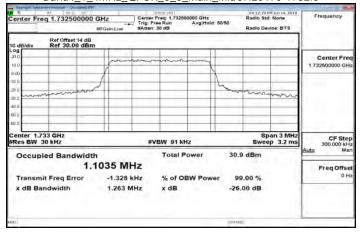
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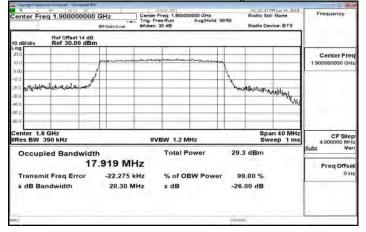
Band2 20MHz 64QAM 100 0 Main MidCH18900-1880



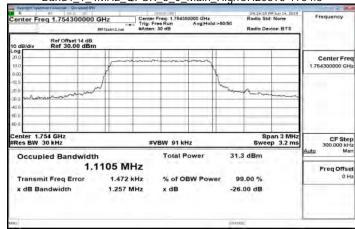
Band4 1 4MHz QPSK 6 0 Main MidCH20175-1732.5



Band2_20MHz_64QAM_100_0_Main_HighCH19100-1900



Band4_1_4MHz_QPSK_6_0_Main_HighCH20393-1754.3



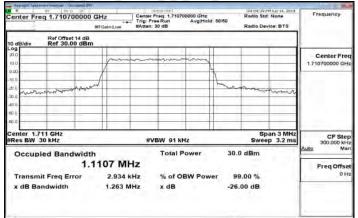
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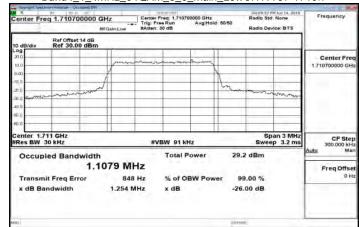


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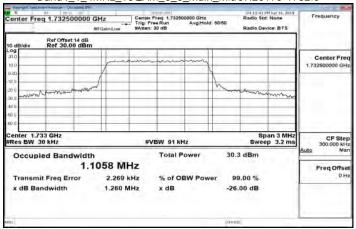
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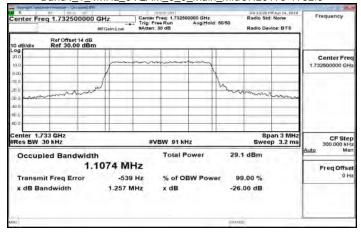
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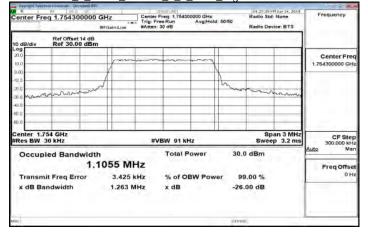
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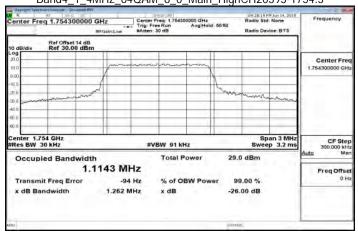
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Band4_1_4MHz_64QAM_6_0_Main_HighCH20393-1754.3



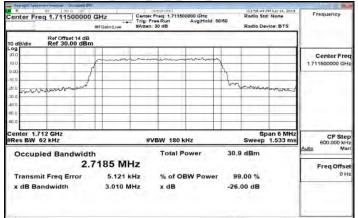
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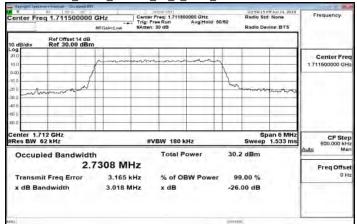


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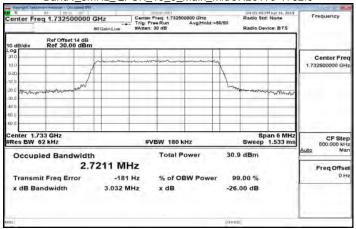
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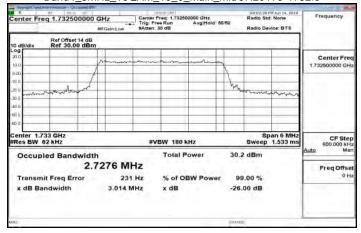
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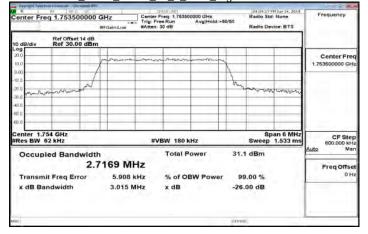
Band4 3MHz QPSK 15 0 Main MidCH20175-1732.5



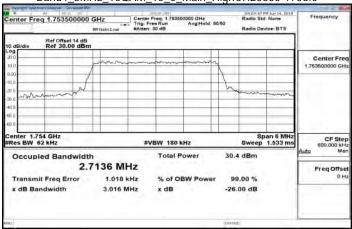
Band4 3MHz 16QAM 15 0 Main MidCH20175-1732.5



Band4_3MHz_QPSK_15_0_Main_HighCH20385-1753.5



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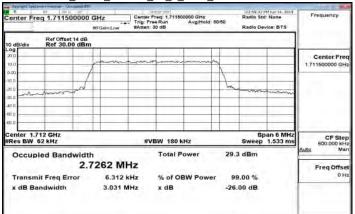
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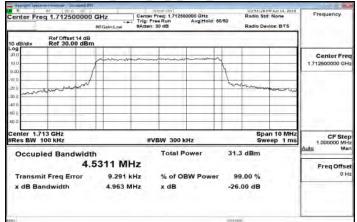


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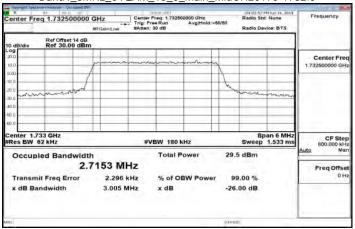
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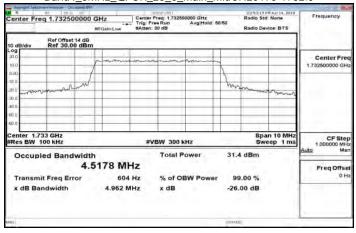
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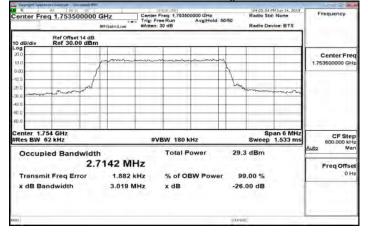
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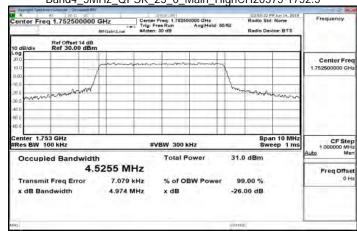
Band4 5MHz QPSK 25 0 Main MidCH20175-1732.5



Band4_3MHz_64QAM_15_0_Main_HighCH20385-1753.5



Band4_5MHz_QPSK_25_0_Main_HighCH20375-1752.5



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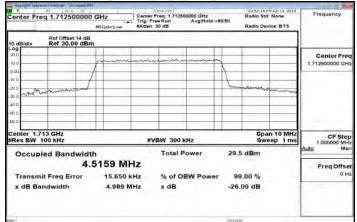


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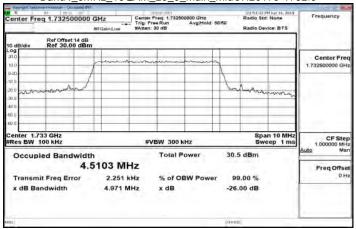
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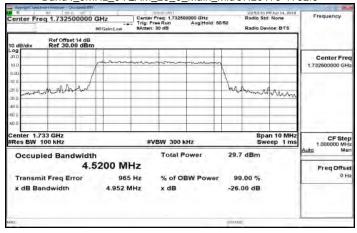
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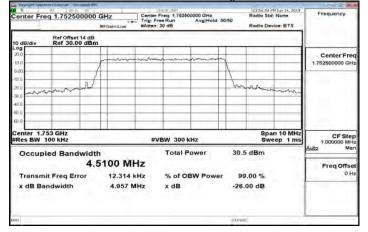
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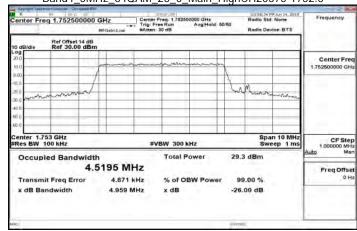
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Band4_5MHz_16QAM_25_0_Main_HighCH20375-1752.5



Band4_5MHz_64QAM_25_0_Main_HighCH20375-1752.5



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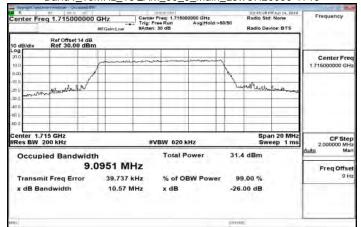


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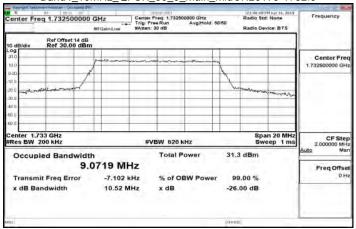
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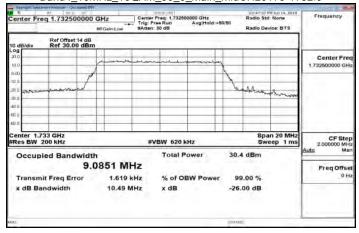
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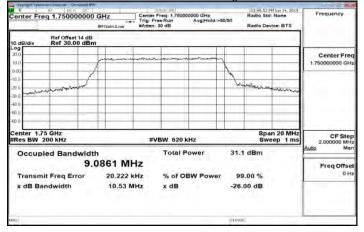
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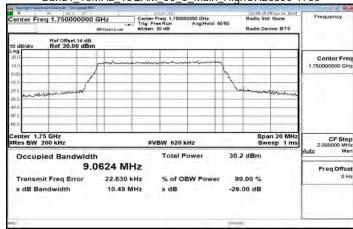
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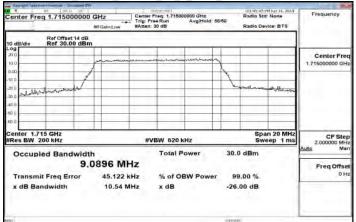
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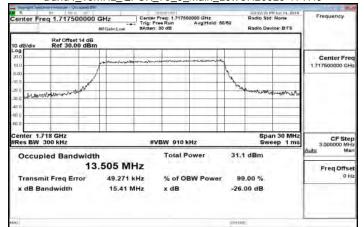


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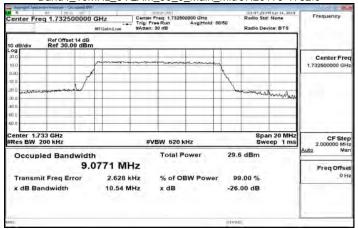
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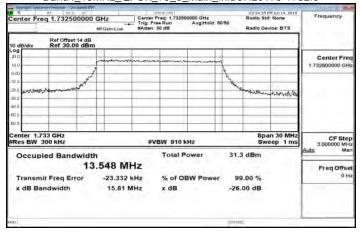
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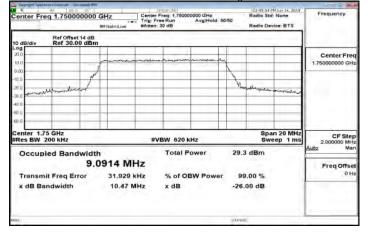
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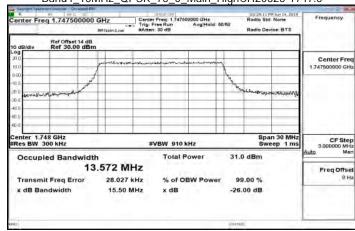
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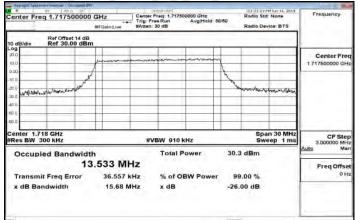
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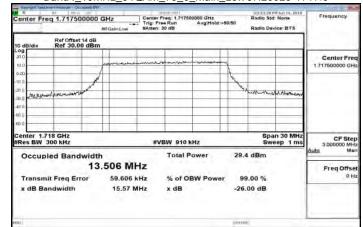


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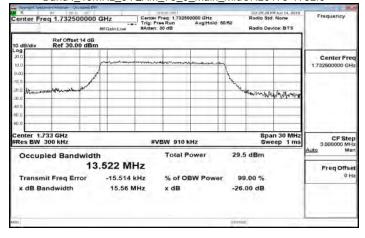
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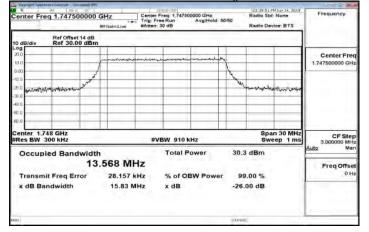
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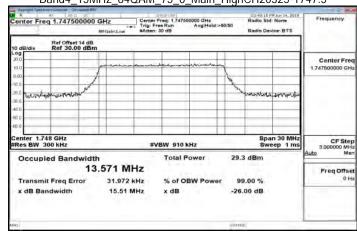
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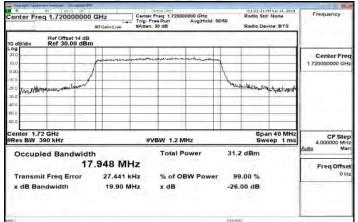
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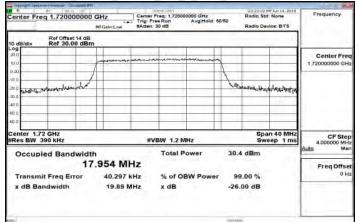


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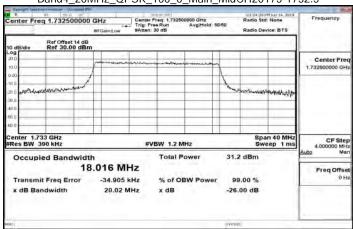
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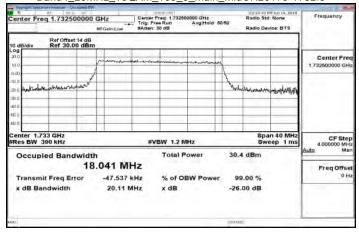
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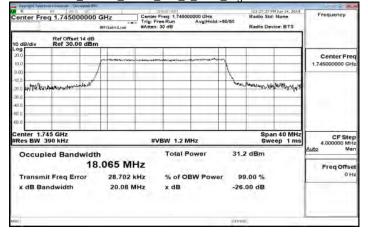
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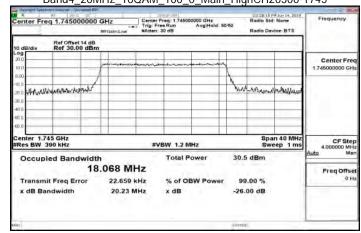
Band4 20MHz 16QAM 100 0 Main MidCH20175-1732.5



Band4_20MHz_QPSK_100_0_Main_HighCH20300-1745



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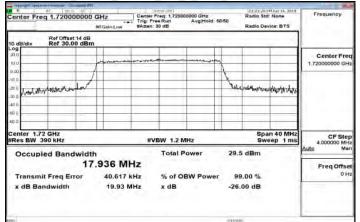
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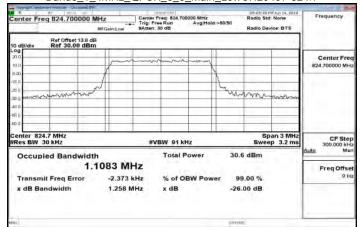


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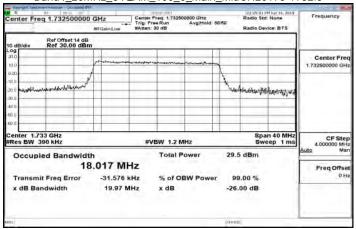
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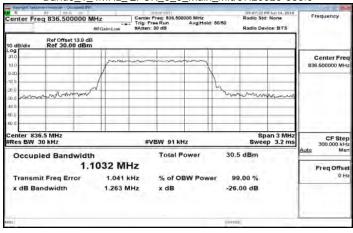
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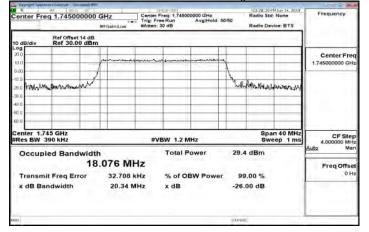
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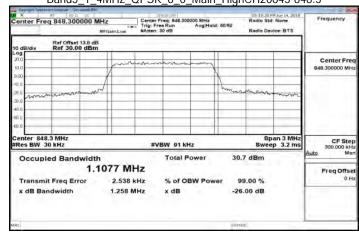
Band5 1 4MHz QPSK 6 0 Main MidCH20525-836.5



Band4_20MHz_64QAM_100_0_Main_HighCH20300-1745



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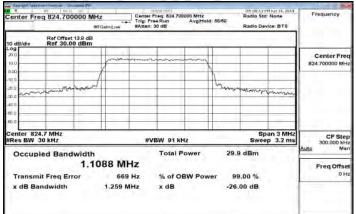
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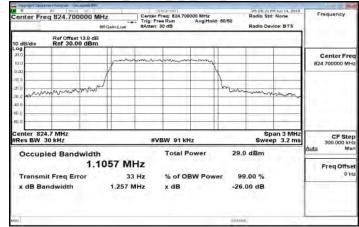


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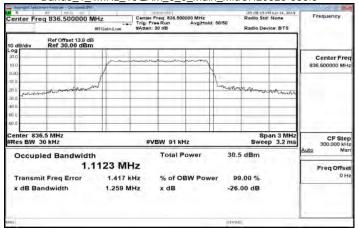
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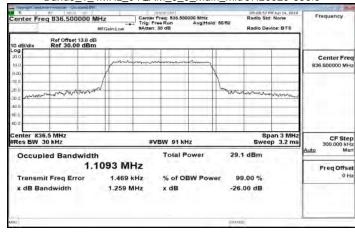
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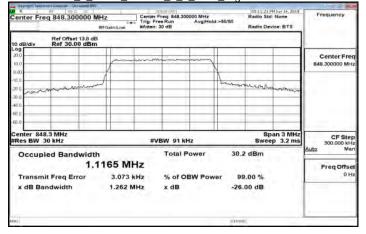
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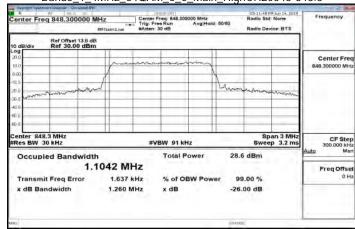
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Band5_1_4MHz_16QAM_6_0_Main_HighCH20643-848.3



Band5_1_4MHz_64QAM_6_0_Main_HighCH20643-848.3



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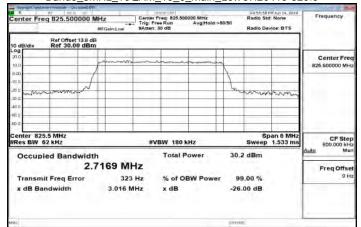


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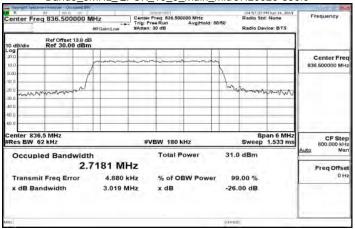
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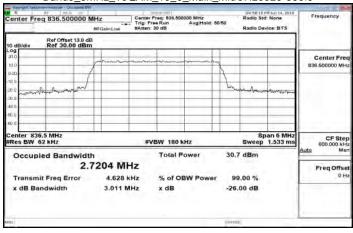
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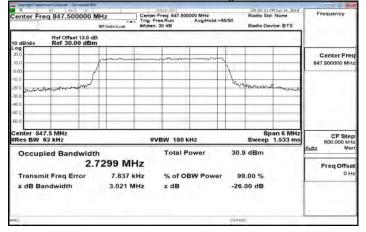
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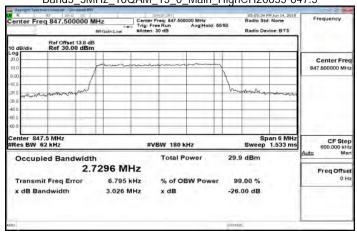
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Band5_3MHz_QPSK_15_0_Main_HighCH20635-847.5



Band5_3MHz_16QAM_15_0_Main_HighCH20635-847.5



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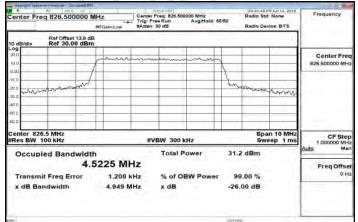


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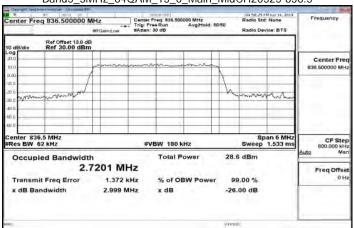
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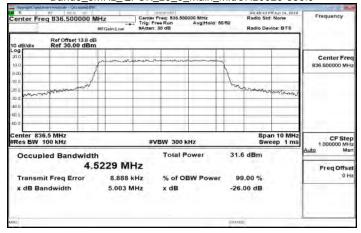
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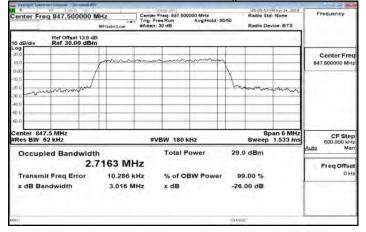
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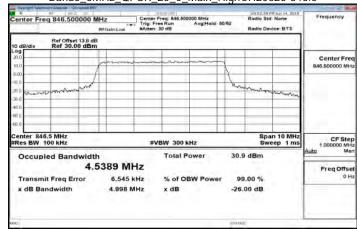
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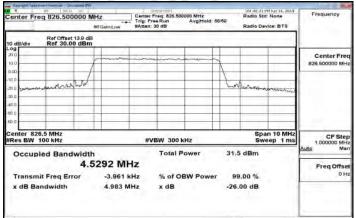
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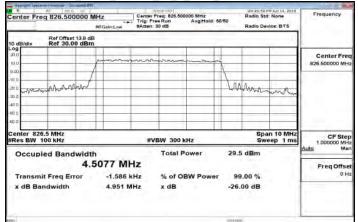


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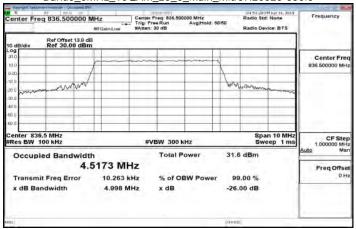
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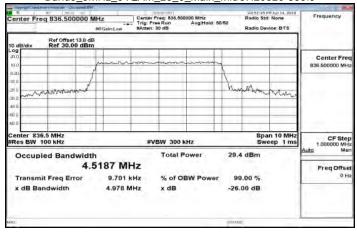
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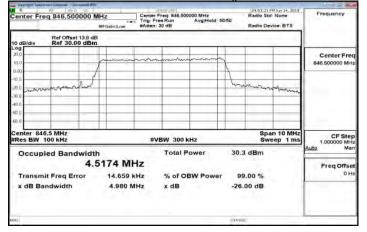
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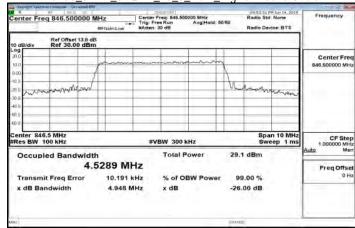
Band5 5MHz 64QAM 25 0 Main MidCH20525-836.5



Band5_5MHz_16QAM_25_0_Main_HighCH20625-846.5



Band5_5MHz_64QAM_25_0_Main_HighCH20625-846.5



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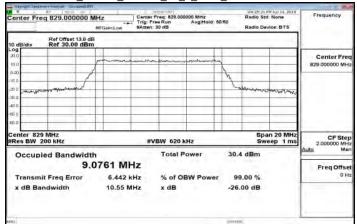


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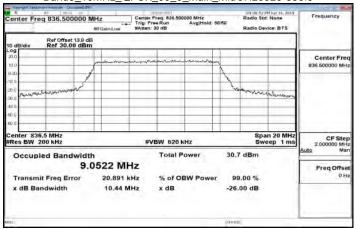
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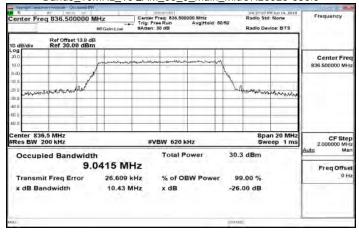
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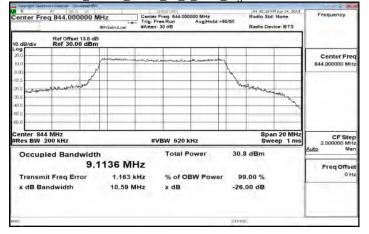
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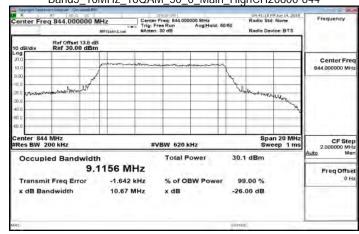
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Band5_10MHz_QPSK_50_0_Main_HighCH20600-844



Band5_10MHz_16QAM_50_0_Main_HighCH20600-844



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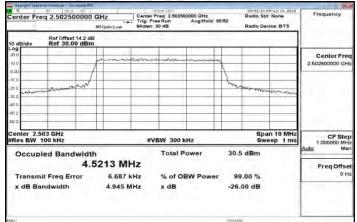


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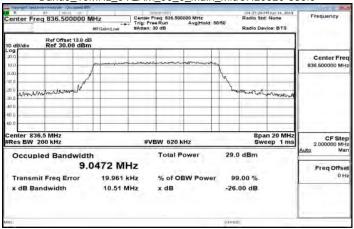
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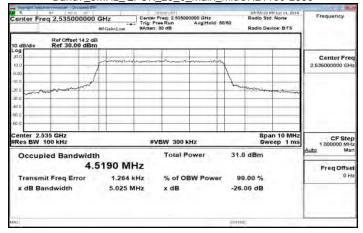
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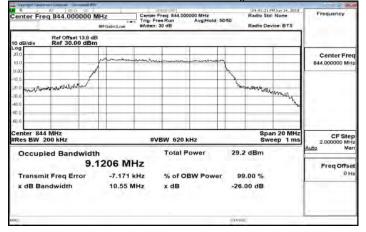
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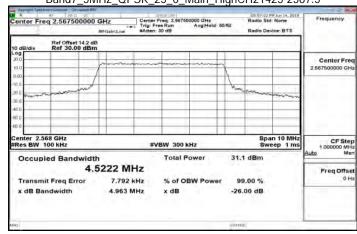
Band7_5MHz_QPSK_25_0_Main_MidCH21100-2535



Band5_10MHz_64QAM_50_0_Main_HighCH20600-844



Band7_5MHz_QPSK_25_0_Main_HighCH21425-2567.5



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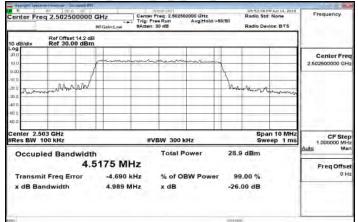


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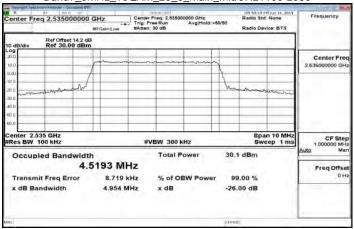
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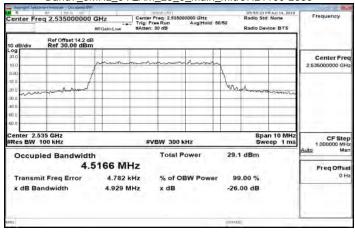
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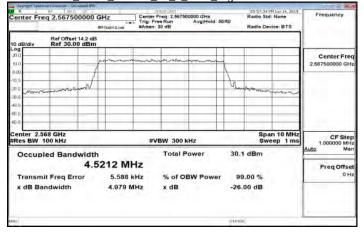
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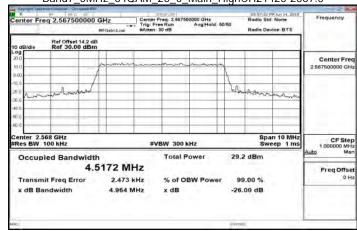
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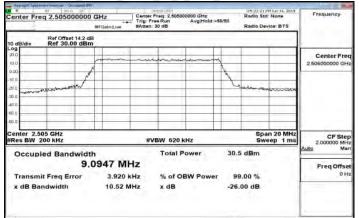
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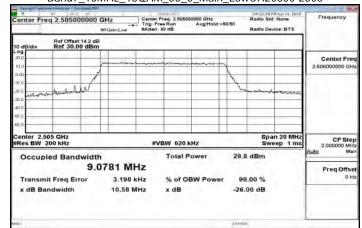


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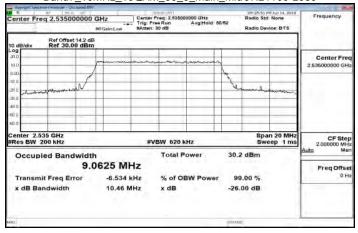
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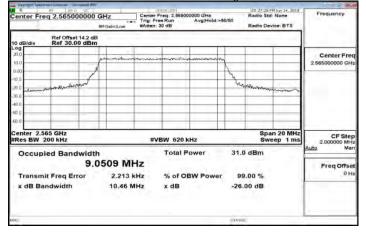
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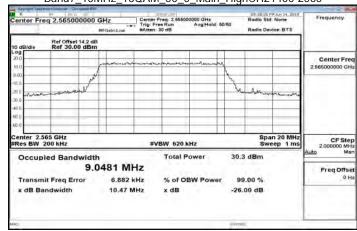
Band7 10MHz 16QAM 50 0 Main MidCH21100-2535



Band7_10MHz_QPSK_50_0_Main_HighCH21400-2565



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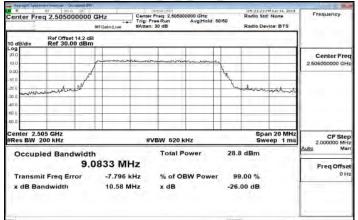
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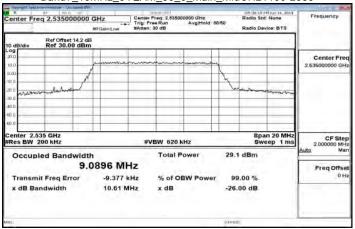
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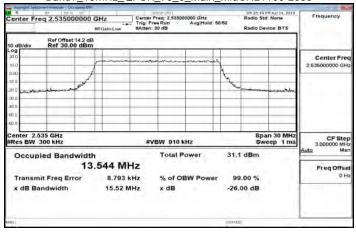
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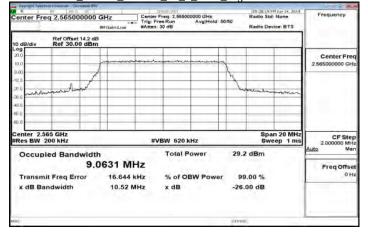
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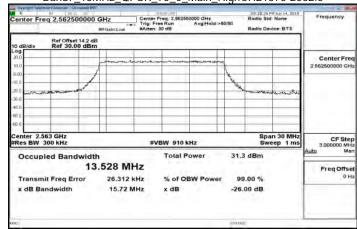
Band7 15MHz QPSK 75 0 Main MidCH21100-2535



Band7_10MHz_64QAM_50_0_Main_HighCH21400-2565



Band7_15MHz_QPSK_75_0_Main_HighCH21375-2562.5



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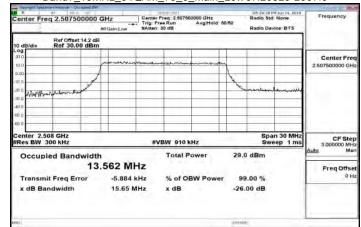


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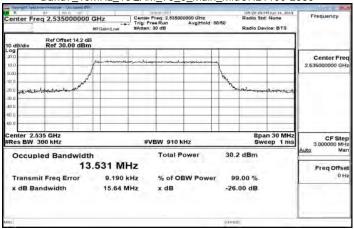
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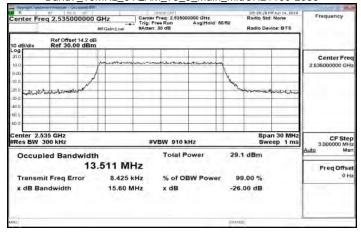
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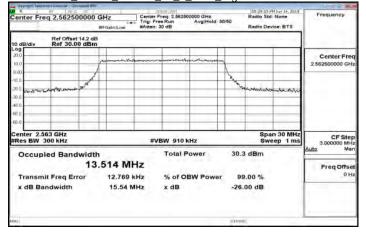
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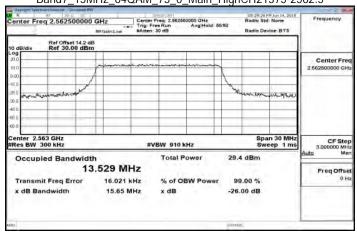
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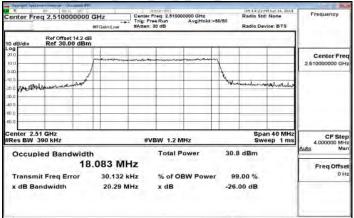
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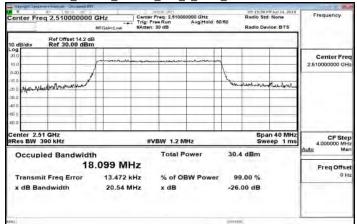


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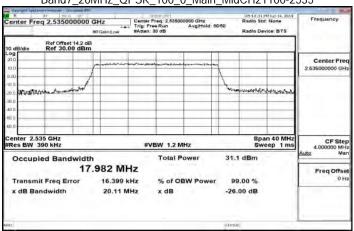
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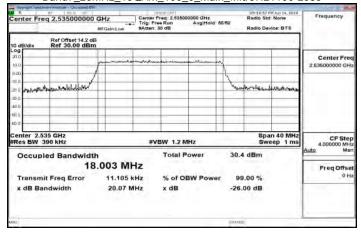
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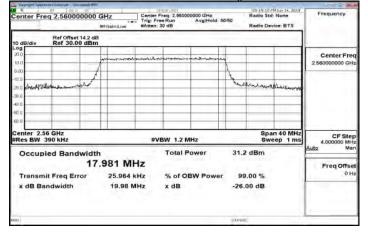
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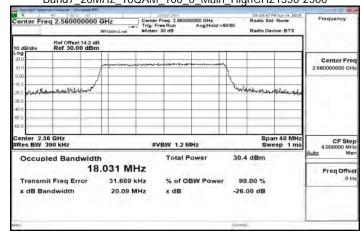
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Band7_20MHz_QPSK_100_0_Main_HighCH21350-2560



Band7_20MHz_16QAM_100_0_Main_HighCH21350-2560



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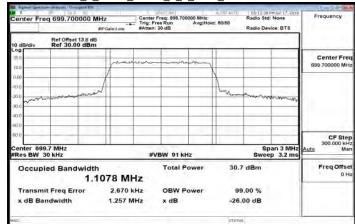


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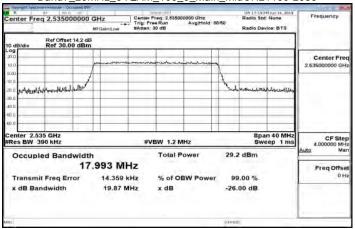
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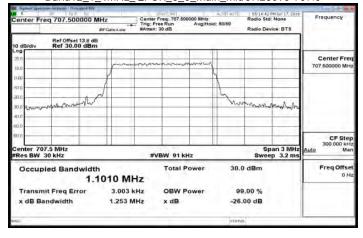
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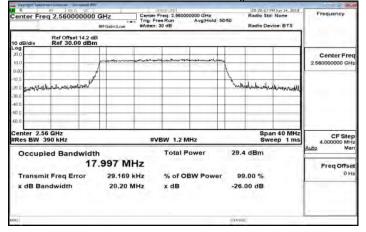
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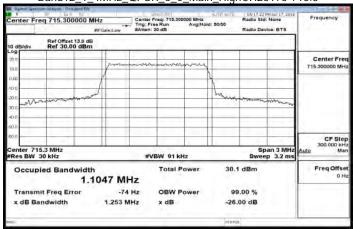
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Band7_20MHz_64QAM_100_0_Main_HighCH21350-2560



Band12_1_4MHz_QPSK_6_0_Main_HighCH23173-715.3



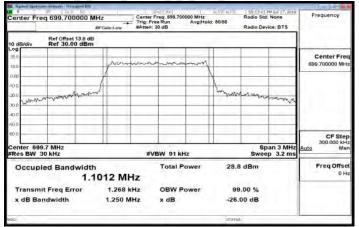
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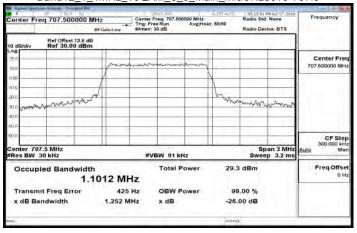
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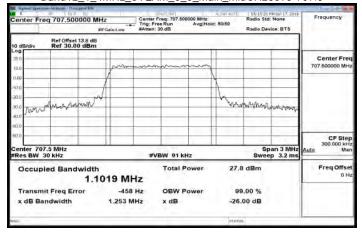
Band12_1_4MHz_64QAM_6_0_Main_LowCH23017-699.7



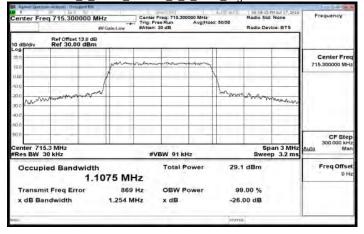
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Band12 1 4MHz 64QAM 6 0 Main MidCH23095-707.5



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Band12_1_4MHz_64QAM_6_0_Main_HighCH23173-715.3



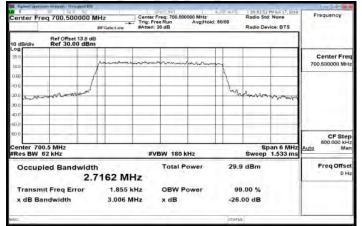
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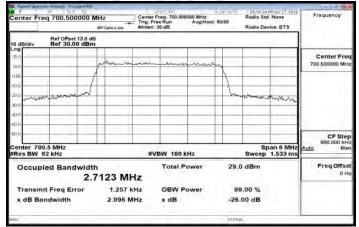


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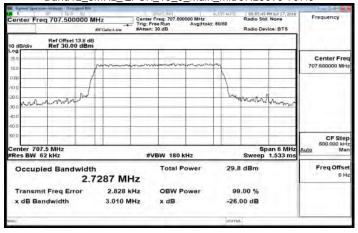
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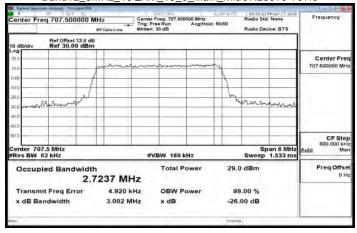
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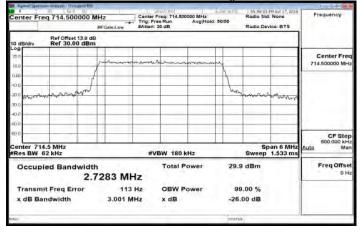
Band12 3MHz OPSK 15 0 Main MidCH23095-707.5



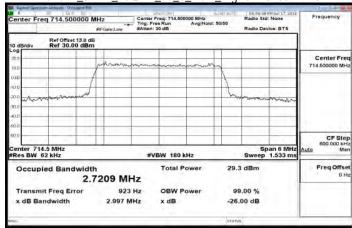
Band12 3MHz 16QAM 15 0 Main MidCH23095-707.5



Band12_3MHz_QPSK_15_0_Main_HighCH23165-714.5



Band12_3MHz_16QAM_15_0_Main_HighCH23165-714.5



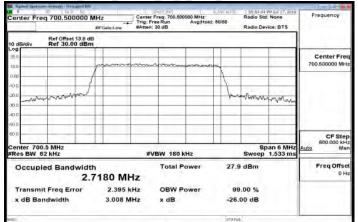
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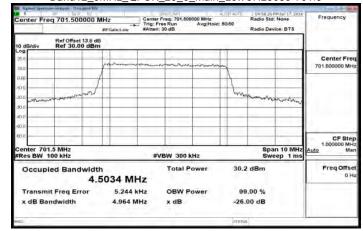


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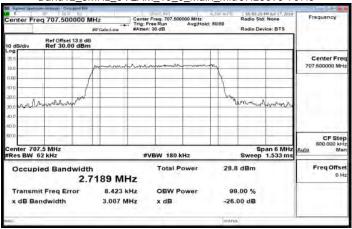
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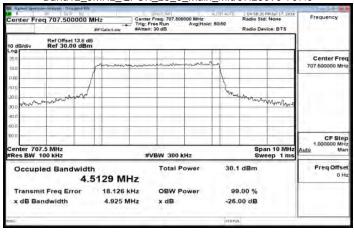
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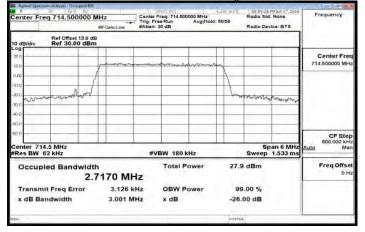
Band12 3MHz 64QAM 15 0 Main MidCH23095-707.5



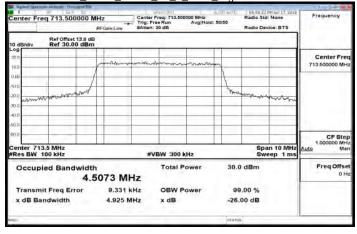
Band12 5MHz OPSK 25 0 Main MidCH23095-707.5



Band12_3MHz_64QAM_15_0_Main_HighCH23165-714.5



Band12_5MHz_QPSK_25_0_Main_HighCH23155-713.5



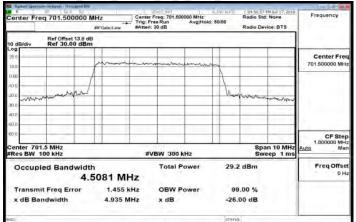
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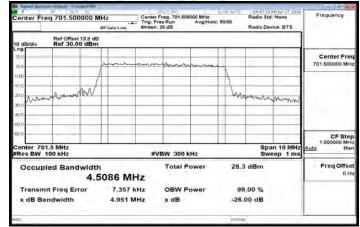


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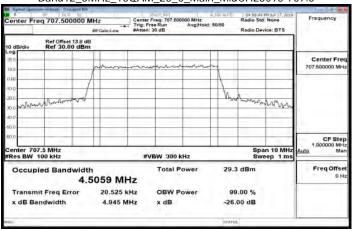
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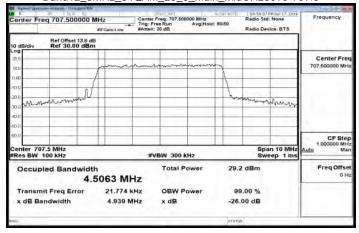
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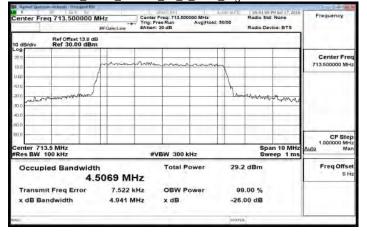
Band12 5MHz 16QAM 25 0 Main MidCH23095-707.5



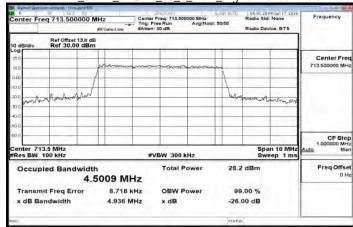
Band12 5MHz 64QAM 25 0 Main MidCH23095-707.5



Band12_5MHz_16QAM_25_0_Main_HighCH23155-713.5



Band12_5MHz_64QAM_25_0_Main_HighCH23155-713.5



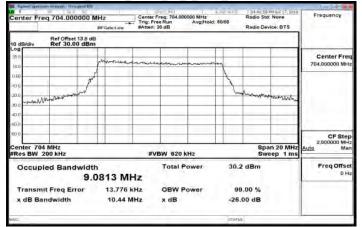
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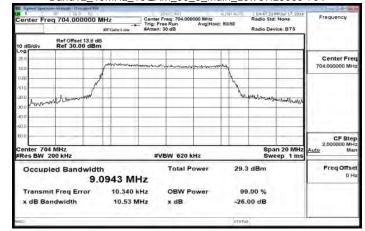


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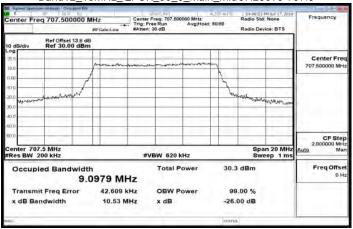
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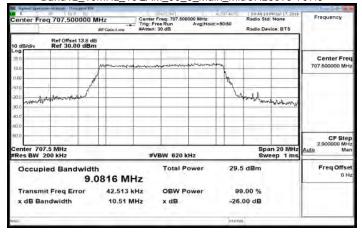
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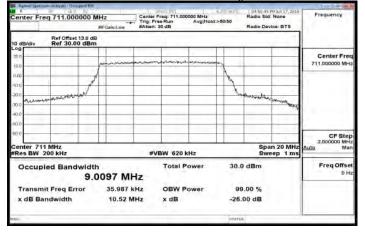
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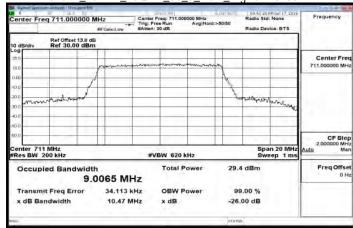
Band12 10MHz 16QAM 50 0 Main MidCH23095-707.5



Band12_10MHz_QPSK_50_0_Main_HighCH23130-711



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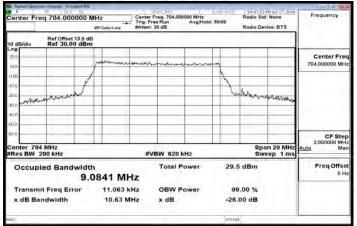
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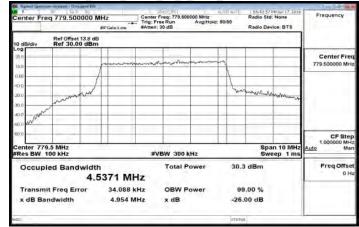


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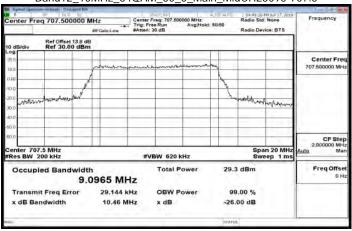
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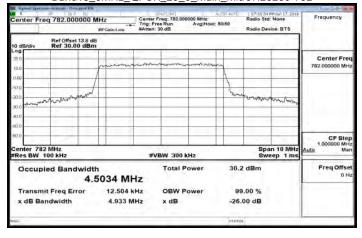
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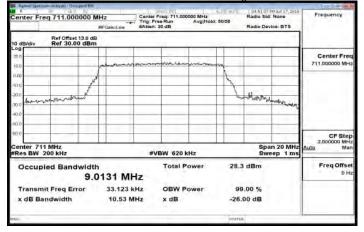
Band12 10MHz 64QAM 50 0 Main MidCH23095-707.5



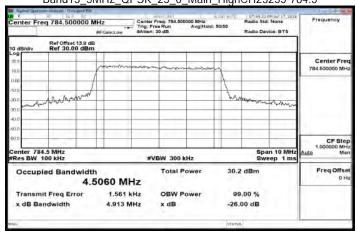
Band13 5MHz QPSK 25 0 Main MidCH23230-782



Band12_10MHz_64QAM_50_0_Main_HighCH23130-711



Band13_5MHz_QPSK_25_0_Main_HighCH23255-784.5



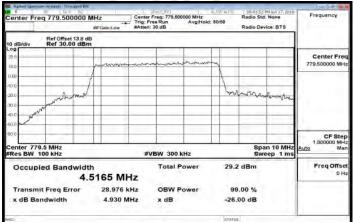
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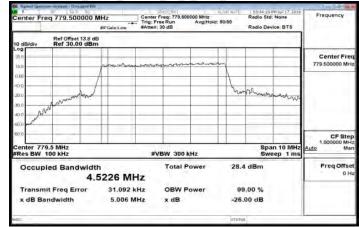


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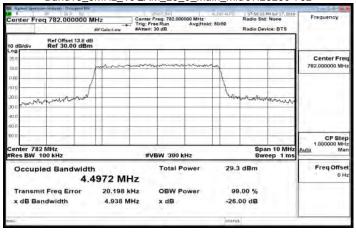
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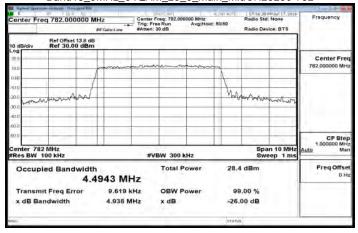
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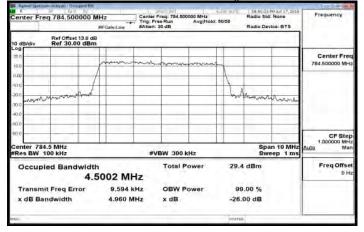
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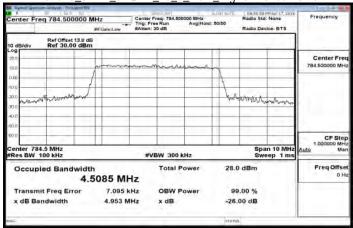
Band13 5MHz 64QAM 25 0 Main MidCH23230-782



Band13_5MHz_16QAM_25_0_Main_HighCH23255-784.5



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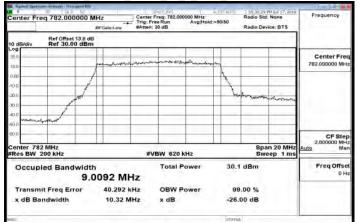
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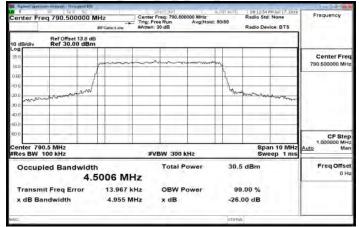


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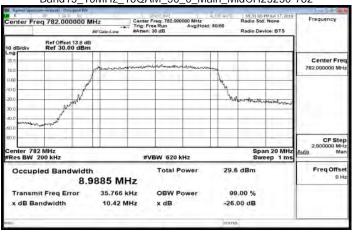
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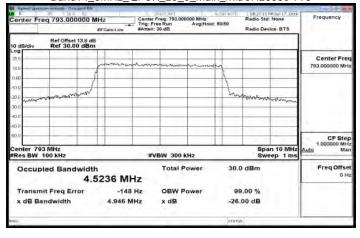
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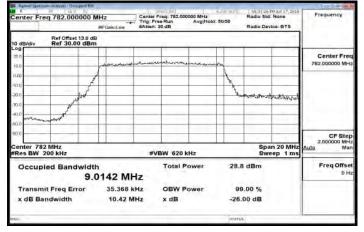
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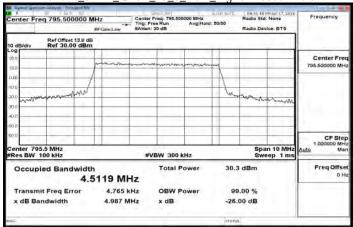
Band14 5MHz QPSK 25 0 Main MidCH23330-793



Band13_10MHz_64QAM_50_0_Main_MidCH23230-782



Band14_5MHz_QPSK_25_0_Main_HighCH23355-795.5



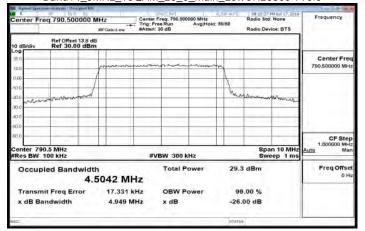
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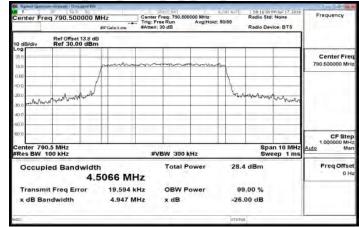


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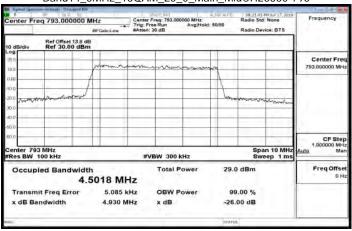
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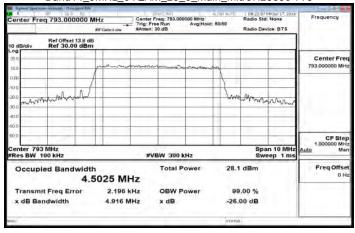
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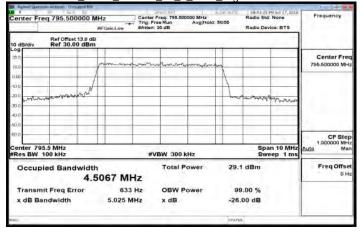
Band14 5MHz 16QAM 25 0 Main MidCH23330-793



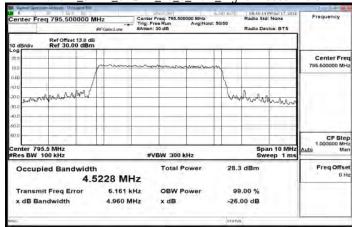
Band14 5MHz 64QAM 25 0 Main MidCH23330-793



Band14_5MHz_16QAM_25_0_Main_HighCH23355-795.5



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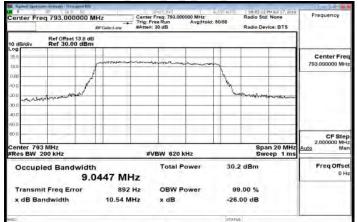
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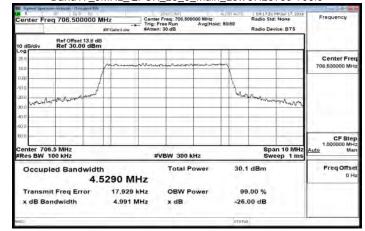


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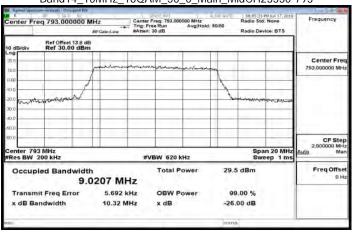
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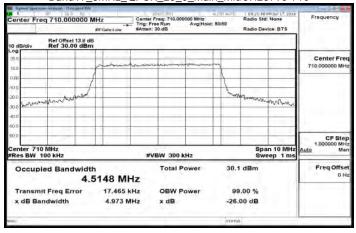
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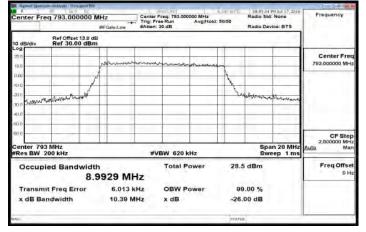
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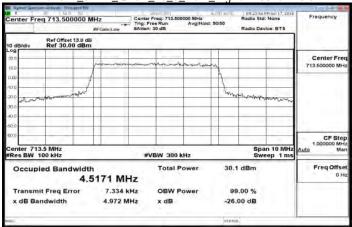
Band17 5MHz QPSK 25 0 Main MidCH23790-710



Band14_10MHz_64QAM_50_0_Main_MidCH23330-793



Band17_5MHz_QPSK_25_0_Main_HighCH23825-713.5



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