

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

FCC Applicant: NEC Platforms,Ltd.
2-3, tsukasa-machi, kanda, chiyoda-ku, Tokyo, 101-8532, Ja-
pan

FCC Manufacturer: NEC Platforms,Ltd.
2-3, tsukasa-machi, kanda, chiyoda-ku, Tokyo, 101-8532, Ja-
pan

Product Name: Mobile Router

Brand Name: NEC Platforms

Model No.: KMP8S3AB1-1A, KMP8S3AA1-1A

Model Difference: N/A

Report Number: TERF2204000399E2

FCC ID 2AA5WKMP8S3AB

Issue Date: June 17, 2022

Date of Test: June 10, 2022

Date of EUT Received: April 21, 2022

Approved By _____

Jay Lin

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 22H & 24E & 27 C & 90S.

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

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

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| Revision History | | | | | |
|------------------|----------|-------------|---------------|------------|--------|
| Report Number | Revision | Description | Issue Date | Revised By | Remark |
| TERF2204000399E2 | 00 | Original | June 17, 2022 | Candice Li | |
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Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

| | |
|---------------------------------|----------------------------|
| Product Name: | Mobile Router |
| Brand Name: | NEC Platforms |
| Model No.: | KMP8S3AB1-1A, KMP8S3AA1-1A |
| Model Difference: | N/A |
| Hardware Version: | 1 |
| Firmware Version: | 1 |
| EUT Series No.: | 359798890030510 |
| Power Supply: | 3.8Vdc |
| Test Software (Name/Version) | default(link 8820C) |

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1.2 Operation Frequency Range

| LTE Band 2 | | |
|-------------|---------------------------|--------|
| BW (MHz) | Operation Frequency (MHz) | |
| 1.4 | 1850.7 | 1909.3 |
| 3 | 1851.5 | 1908.5 |
| 5 | 1852.5 | 1907.5 |
| 10 | 1855.0 | 1905.0 |
| 15 | 1857.5 | 1902.5 |
| 20 | 1860.0 | 1900.0 |
| LTE Band 4 | | |
| BW (MHz) | Operation Frequency (MHz) | |
| 1.4 | 1710.7 | 1754.3 |
| 3 | 1711.5 | 1753.5 |
| 5 | 1712.5 | 1752.5 |
| 10 | 1715.0 | 1750.0 |
| 15 | 1717.5 | 1747.5 |
| 20 | 1720.0 | 1745.0 |
| LTE Band 5 | | |
| BW (MHz) | Operation Frequency (MHz) | |
| 1.4 | 824.7 | 848.3 |
| 3 | 825.5 | 847.5 |
| 5 | 826.5 | 846.5 |
| 10 | 829.0 | 844.0 |
| LTE Band 12 | | |
| BW (MHz) | Operation Frequency (MHz) | |
| 1.4 | 699.7 | 715.3 |
| 3 | 700.5 | 714.5 |
| 5 | 701.5 | 713.5 |
| 10 | 704.0 | 711.0 |

| LTE Band 17 | | |
|---------------------|---------------------------|--------|
| BW (MHz) | Operation Frequency (MHz) | |
| 5 | 706.5 | 713.5 |
| 10 | 709.0 | 711.0 |
| LTE Band 26 | | |
| BW (MHz) | Operation Frequency (MHz) | |
| 1.4 | 824.7 | 848.3 |
| 3 | 825.5 | 847.5 |
| 5 | 826.5 | 846.5 |
| 10 | 829.0 | 844.0 |
| 15 | 831.5 | 841.5 |
| LTE Band 26 Part 90 | | |
| BW (MHz) | Operation Frequency (MHz) | |
| 1.4 | 814.7 | 823.3 |
| 3 | 815.5 | 822.5 |
| 5 | 816.5 | 821.5 |
| 10 | 819.0 | |
| LTE Band 41 | | |
| BW (MHz) | Operation Frequency (MHz) | |
| 5 | 2498.5 | 2687.5 |
| 10 | 2501.0 | 2685.0 |
| 15 | 2503.5 | 2682.5 |
| 20 | 2506.0 | 2680.0 |

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1.3 Antenna Designation

| Antenna Type | Antenna Model No. |
|--------------|-------------------|
| Inverted F | Ant1 |
| Inverted L | Ant3 |

Note: Transmission frequencies in this test report are only available by the above antenna(s).

| Modulation | Frequency (MHz) | Peak Antenna Gain (dBi) | |
|---------------------|-----------------|-------------------------|------|
| | | Ant1 | Ant3 |
| LTE-Band 2 | 1850 ~ 1910 | | 0.3 |
| LTE-Band 4 | 1710 ~ 1755 | | -0.8 |
| LTE-Band 5 | 824 ~ 849 | 0.3 | |
| LTE-Band 12 | 699 ~ 716 | -1.1 | |
| LTE-Band 17 | 704 ~ 716 | -1.1 | |
| LTE-Band 26 Part 90 | 814 ~ 824 | 0.2 | |
| LTE-Band 26 | 824 ~ 849 | 0.2 | |
| LTE-Band 41 | 2496 ~ 2690 | | -0.2 |

Note: Antenna information is provided by the applicant.

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

| LTE Band | BW | Frequency | | Modulation | ERP / EIRP (dBm) | | (W) | 99% | Type of Emission |
|----------|-----|-----------|--------|------------|------------------|------|-------|---------|------------------|
| 2 | 1.4 | 1850.7 | 1909.3 | QPSK | 22.80 | EIRP | 0.191 | 1.0859 | 1M09G7D |
| | | | | 16QAM | 22.75 | EIRP | 0.188 | 1.0863 | 1M09D7W |
| | | | | 64QAM | 22.77 | EIRP | 0.189 | 1.0866 | 1M09D7W |
| 2 | 3 | 1851.5 | 1908.5 | QPSK | 22.79 | EIRP | 0.190 | 2.6839 | 2M68G7D |
| | | | | 16QAM | 22.72 | EIRP | 0.187 | 2.6836 | 2M68D7W |
| | | | | 64QAM | 22.64 | EIRP | 0.184 | 2.6899 | 2M69D7W |
| 2 | 5 | 1852.5 | 1907.5 | QPSK | 22.61 | EIRP | 0.182 | 4.4865 | 4M49G7D |
| | | | | 16QAM | 22.75 | EIRP | 0.188 | 4.4811 | 4M48D7W |
| | | | | 64QAM | 22.68 | EIRP | 0.185 | 4.4907 | 4M49D7W |
| 2 | 10 | 1855.0 | 1905.0 | QPSK | 22.78 | EIRP | 0.190 | 8.9745 | 8M97G7D |
| | | | | 16QAM | 22.74 | EIRP | 0.188 | 8.9450 | 8M95D7W |
| | | | | 64QAM | 22.68 | EIRP | 0.185 | 8.9556 | 8M96D7W |
| 2 | 15 | 1857.5 | 1902.5 | QPSK | 22.64 | EIRP | 0.184 | 13.468 | 13M5G7D |
| | | | | 16QAM | 22.78 | EIRP | 0.190 | 13.432 | 13M4D7W |
| | | | | 64QAM | 22.64 | EIRP | 0.184 | 13.402 | 13M4D7W |
| 2 | 20 | 1860.0 | 1900.0 | QPSK | 22.84 | EIRP | 0.192 | 17.879 | 17M9G7D |
| | | | | 16QAM | 22.88 | EIRP | 0.194 | 17.908 | 17M9D7W |
| | | | | 64QAM | 22.94 | EIRP | 0.197 | 17.905 | 17M9D7W |
| LTE Band | BW | Frequency | | Modulation | ERP / EIRP (dBm) | | (W) | 99% | Type of Emission |
| 4 | 1.4 | 1710.7 | 1754.3 | QPSK | 20.86 | EIRP | 0.122 | 1.0857 | 1M09G7D |
| | | | | 16QAM | 20.90 | EIRP | 0.123 | 1.0862 | 1M09D7W |
| | | | | 64QAM | 20.87 | EIRP | 0.122 | 1.0872 | 1M09D7W |
| 4 | 3 | 1711.5 | 1753.5 | QPSK | 20.83 | EIRP | 0.121 | 2.6847 | 2M68G7D |
| | | | | 16QAM | 20.89 | EIRP | 0.123 | 2.6849 | 2M68D7W |
| | | | | 64QAM | 20.91 | EIRP | 0.123 | 2.6887 | 2M69D7W |
| 4 | 5 | 1712.5 | 1752.5 | QPSK | 21.07 | EIRP | 0.128 | 4.4854 | 4M49G7D |
| | | | | 16QAM | 21.04 | EIRP | 0.127 | 4.4855 | 4M49D7W |
| | | | | 64QAM | 21.02 | EIRP | 0.126 | 4.4925 | 4M49D7W |
| 4 | 10 | 1715.0 | 1750.0 | QPSK | 21.07 | EIRP | 0.128 | 8.9672 | 8M97G7D |
| | | | | 16QAM | 21.02 | EIRP | 0.126 | 8.9503 | 8M95D7W |
| | | | | 64QAM | 21.11 | EIRP | 0.129 | 8.9585 | 8M96D7W |
| 4 | 15 | 1717.5 | 1747.5 | QPSK | 21.06 | EIRP | 0.128 | 13.4460 | 13M4G7D |
| | | | | 16QAM | 21.11 | EIRP | 0.129 | 13.4300 | 13M4D7W |
| | | | | 64QAM | 21.03 | EIRP | 0.127 | 13.4250 | 13M4D7W |
| 4 | 20 | 1720.0 | 1745.0 | QPSK | 21.11 | EIRP | 0.129 | 17.9140 | 17M9G7D |
| | | | | 16QAM | 21.09 | EIRP | 0.129 | 17.9490 | 17M9D7W |
| | | | | 64QAM | 21.15 | EIRP | 0.130 | 17.9180 | 17M9D7W |
| LTE Band | BW | Frequency | | Modulation | ERP / EIRP (dBm) | | (W) | 99% | Type of Emission |
| 26 | 1.4 | 824.7 | 848.3 | QPSK | 20.86 | ERP | 0.122 | 1.0861 | 1M09G7D |
| | | | | 16QAM | 20.94 | ERP | 0.124 | 1.0866 | 1M09D7W |
| | | | | 64QAM | 20.90 | ERP | 0.123 | 1.0868 | 1M09D7W |
| 26 | 3 | 825.5 | 847.5 | QPSK | 20.75 | ERP | 0.119 | 2.6932 | 2M69G7D |
| | | | | 16QAM | 20.74 | ERP | 0.119 | 2.6836 | 2M68D7W |
| | | | | 64QAM | 20.80 | ERP | 0.120 | 2.6897 | 2M69D7W |
| 26 | 5 | 826.5 | 846.5 | QPSK | 20.87 | ERP | 0.122 | 4.4820 | 4M48G7D |
| | | | | 16QAM | 20.87 | ERP | 0.122 | 4.4860 | 4M49D7W |
| | | | | 64QAM | 20.86 | ERP | 0.122 | 4.4941 | 4M49D7W |
| 26 | 10 | 829.0 | 844.0 | QPSK | 20.77 | ERP | 0.119 | 8.9888 | 8M99G7D |
| | | | | 16QAM | 20.87 | ERP | 0.122 | 8.9594 | 8M96D7W |
| | | | | 64QAM | 20.89 | ERP | 0.123 | 8.9777 | 8M98D7W |
| 26 | 15 | 831.5 | 841.5 | QPSK | 21.04 | ERP | 0.127 | 13.4620 | 13M5G7D |
| | | | | 16QAM | 21.01 | ERP | 0.126 | 13.4420 | 13M4D7W |
| | | | | 64QAM | 20.98 | ERP | 0.125 | 13.4350 | 13M4D7W |

| LTE Band | BW | Frequency | | Modulation | ERP / EIRP (dBm) | | (W) | 99% | Type of Emission |
|-----------|-----|-----------|--------|------------|------------------|------|-------|---------|------------------|
| 5 | 1.4 | 824.7 | 848.3 | QPSK | 21.03 | ERP | 0.127 | 1.0858 | 1M09G7D |
| | | | | 16QAM | 20.97 | ERP | 0.125 | 1.0876 | 1M09D7W |
| | | | | 64QAM | 21.03 | ERP | 0.127 | 1.0863 | 1M09D7W |
| 5 | 3 | 825.5 | 847.5 | QPSK | 20.82 | ERP | 0.121 | 2.6825 | 2M68G7D |
| | | | | 16QAM | 20.93 | ERP | 0.124 | 2.6836 | 2M68D7W |
| | | | | 64QAM | 20.87 | ERP | 0.122 | 2.6895 | 2M69D7W |
| 5 | 5 | 826.5 | 846.5 | QPSK | 20.93 | ERP | 0.124 | 4.4820 | 4M48G7D |
| | | | | 16QAM | 20.81 | ERP | 0.121 | 4.4872 | 4M49D7W |
| | | | | 64QAM | 20.97 | ERP | 0.125 | 4.4926 | 4M49D7W |
| 5 | 10 | 829.0 | 844.0 | QPSK | 21.14 | ERP | 0.130 | 8.9741 | 8M97G7D |
| | | | | 16QAM | 21.10 | ERP | 0.129 | 8.9574 | 8M96D7W |
| | | | | 64QAM | 21.06 | ERP | 0.128 | 8.9739 | 8M97D7W |
| LTE Band | BW | Frequency | | Modulation | ERP / EIRP (dBm) | | (W) | 99% | Type of Emission |
| 12 | 1.4 | 699.7 | 715.3 | QPSK | 19.31 | ERP | 0.085 | 1.0858 | 1M09G7D |
| | | | | 16QAM | 19.35 | ERP | 0.086 | 1.0876 | 1M09D7W |
| | | | | 64QAM | 19.31 | ERP | 0.085 | 1.0858 | 1M09D7W |
| 12 | 3 | 700.5 | 714.5 | QPSK | 19.32 | ERP | 0.086 | 2.6828 | 2M68G7D |
| | | | | 16QAM | 19.30 | ERP | 0.085 | 2.6846 | 2M68D7W |
| | | | | 64QAM | 19.35 | ERP | 0.086 | 2.6886 | 2M69D7W |
| 12 | 5 | 701.5 | 713.5 | QPSK | 19.35 | ERP | 0.086 | 4.4848 | 4M48G7D |
| | | | | 16QAM | 19.34 | ERP | 0.086 | 4.4899 | 4M49D7W |
| | | | | 64QAM | 19.27 | ERP | 0.085 | 4.4986 | 4M50D7W |
| 12 | 10 | 704.0 | 711.0 | QPSK | 19.38 | ERP | 0.087 | 8.9749 | 8M97G7D |
| | | | | 16QAM | 19.47 | ERP | 0.089 | 8.9406 | 8M94D7W |
| | | | | 64QAM | 19.40 | ERP | 0.087 | 8.9653 | 8M97D7W |
| LTE Band | BW | Frequency | | Modulation | ERP / EIRP (dBm) | | (W) | 99% | Type of Emission |
| 17 | 5 | 706.5 | 713.5 | QPSK | 19.33 | ERP | 0.086 | 4.4864 | 4M49G7D |
| | | | | 16QAM | 19.25 | ERP | 0.084 | 4.4896 | 4M49D7W |
| | | | | 64QAM | 19.28 | ERP | 0.085 | 4.4922 | 4M49D7W |
| 17 | 10 | 709.0 | 711.0 | QPSK | 19.38 | ERP | 0.087 | 8.9630 | 8M96G7D |
| | | | | 16QAM | 19.43 | ERP | 0.088 | 8.9425 | 8M94D7W |
| | | | | 64QAM | 19.40 | ERP | 0.087 | 8.9643 | 8M96D7W |
| LTE Band | BW | Frequency | | Modulation | ERP / EIRP (dBm) | | (W) | 99% | Type of Emission |
| 26 Part90 | 1.4 | 814.7 | 823.3 | QPSK | 22.94 | ERP | 0.197 | 1.0858 | 1M09G7D |
| | | | | 16QAM | 22.72 | ERP | 0.187 | 1.0886 | 1M09D7W |
| | | | | 64QAM | 22.88 | ERP | 0.194 | 1.0864 | 1M09D7W |
| 26 Part90 | 3 | 815.5 | 822.5 | QPSK | 22.67 | ERP | 0.185 | 2.6832 | 2M68G7D |
| | | | | 16QAM | 22.92 | ERP | 0.196 | 2.6858 | 2M69D7W |
| | | | | 64QAM | 22.81 | ERP | 0.191 | 2.6863 | 2M69D7W |
| 26 Part90 | 5 | 816.5 | 821.5 | QPSK | 22.69 | ERP | 0.186 | 4.4819 | 4M48G7D |
| | | | | 16QAM | 22.76 | ERP | 0.189 | 4.4839 | 4M48D7W |
| | | | | 64QAM | 22.88 | ERP | 0.194 | 4.4885 | 4M49D7W |
| 26 Part90 | 10 | 819.0 | 819.0 | QPSK | 22.72 | ERP | 0.187 | 8.9376 | 8M94G7D |
| | | | | 16QAM | 21.77 | ERP | 0.150 | 8.9078 | 8M91D7W |
| | | | | 64QAM | 20.73 | ERP | 0.118 | 8.9294 | 8M93D7W |
| LTE Band | BW | Frequency | | Modulation | ERP / EIRP (dBm) | | (W) | 99% | Type of Emission |
| 41 | 5 | 2498.5 | 2687.5 | QPSK | 22.57 | EIRP | 0.181 | 4.4808 | 4M48G7D |
| | | | | 16QAM | 22.75 | EIRP | 0.188 | 4.4900 | 4M49D7W |
| | | | | 64QAM | 22.58 | EIRP | 0.181 | 4.4930 | 4M49D7W |
| 41 | 10 | 2501.0 | 2685.0 | QPSK | 22.46 | EIRP | 0.176 | 8.9694 | 8M97G7D |
| | | | | 16QAM | 22.88 | EIRP | 0.194 | 8.9970 | 9M00D7W |
| | | | | 64QAM | 22.67 | EIRP | 0.185 | 8.9594 | 8M96D7W |
| 41 | 15 | 2503.5 | 2682.0 | QPSK | 22.54 | EIRP | 0.179 | 13.4750 | 13M5G7D |
| | | | | 16QAM | 22.84 | EIRP | 0.192 | 13.4390 | 13M4D7W |
| | | | | 64QAM | 22.68 | EIRP | 0.185 | 13.4250 | 13M4D7W |
| 41 | 20 | 2506.0 | 2680.0 | QPSK | 22.61 | EIRP | 0.182 | 17.9000 | 17M9G7D |
| | | | | 16QAM | 22.95 | EIRP | 0.197 | 17.9140 | 17M9D7W |
| | | | | 64QAM | 21.75 | EIRP | 0.150 | 17.8940 | 17M9D7W |

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1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C, Part 90.
 ANSI C63.26-2015
 KDB971168 D01 Power Meas license Digital System v03r01
 KDB412172 D01 Determining ERP and EIRP v01r01

1.6 Test Facility

| Laboratory | Test Site Address | Test Site Name | FCC Designation number | IC CAB identifier |
|---|---|----------------|------------------------|-------------------|
| SGS Taiwan Ltd. Central RF Lab. (TAF code 3702) | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. | SAC 1 | TW0027 | TW3702 |
| | | SAC 3 | | |
| | | Conduction 1 | | |
| | | Conducted 1 | | |
| | | Conducted 2 | | |
| | | Conducted 3 | | |
| | | Conducted 4 | | |
| | | Conducted 5 | | |
| | Conducted 6 | | | |
| | No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 | Conduction C | TW0028 | |
| | | SAC C | | |
| | | SAC D | | |
| | | SAC G | | |
| | | Conducted A | | |
| | | Conducted B | | |
| | | Conducted C | | |
| | | Conducted D | | |
| | | Conducted E | | |
| | | Conducted F | | |
| Conducted G | | | | |

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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1.7 Special Accessories

No special accessories were used during testing.

1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

1.9 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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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

The EUT is placed on a 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)

The EUT is placed on a 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.

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.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

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2.5 Final Amplifier Voltage and Current Information:

LTE Band 2

| Test mode | DC voltage (V) | DC current (mA) | Test mode | DC voltage (V) | DC current (mA) |
|---------------------|----------------|-----------------|---------------------|----------------|-----------------|
| LTE Band 2_20M QPSK | 3.8 | 592 | LTE Band 4_20M QPSK | 3.8 | 621 |

LTE Band 4

LTE Band 5

| Test mode | DC voltage (V) | DC current (mA) | Test mode | DC voltage (V) | DC current (mA) |
|---------------------|----------------|-----------------|---------------------|----------------|-----------------|
| LTE Band 5_10M QPSK | 3.8 | 606 | LTE Band 5_10M QPSK | 3.8 | 613 |

LTE Band 12

LTE Band 17

| Test mode | DC voltage (V) | DC current (mA) | Test Mode | DC voltage (V) | DC current (mA) |
|----------------------|----------------|-----------------|----------------------|----------------|-----------------|
| LTE Band 17_10M QPSK | 3.8 | 587 | LTE Band 26_10M QPSK | 3.8 | 621 |

LTE Band 26 for Part 90S

LTE Band 26

| Test mode | DC voltage (V) | DC current (mA) | Test Mode | DC voltage (V) | DC current (mA) |
|----------------------|----------------|-----------------|----------------------|----------------|-----------------|
| LTE Band 26_15M QPSK | 3.8 | 589 | LTE Band 41_20M QPSK | 3.8 | 584 |

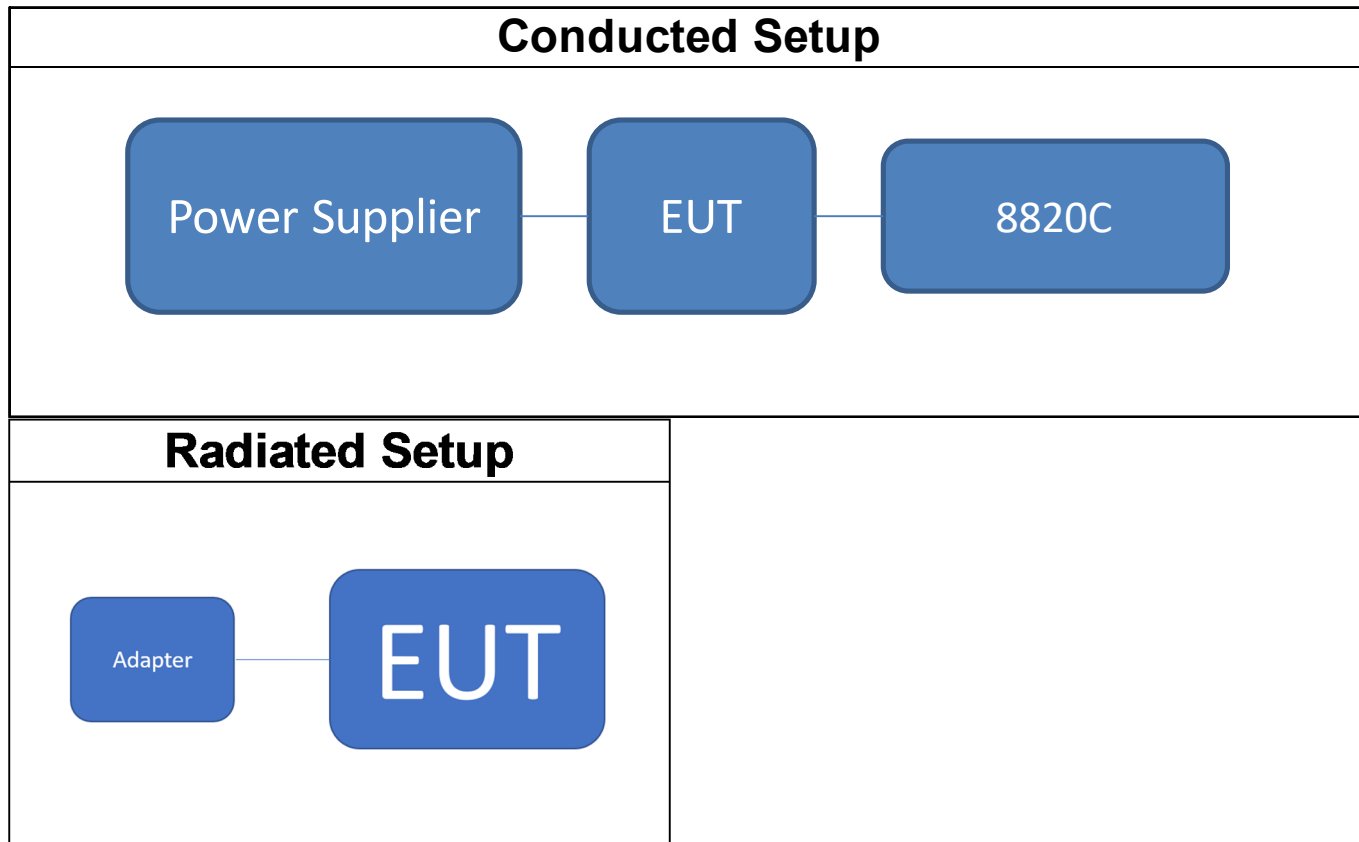
LTE Band 41

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2.6 Test Configuration



Note: Radio Communication Analyzer is placed in remote side for radiated test.

2.7 Control Unit(s)

| Radiated Emission Test Site: SAC G | | | | | |
|------------------------------------|------|--------------|---------------|-----------|----------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Adapter | Lapo | WT-02CA | 4712966931002 | N/A | N/A |

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3 SUMMARY OF TEST RESULTS

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

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
3. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

4.2 Measurement Configuration

| Test Items | | | | Max. Output Power | | | | | | | | | | | | |
|------------|--------------|---|---|------------------------|---|---|----|----|----|------------|-------|-------|--------|------|------|------|
| Band | Test Channel | | | Bandwidth (MHz) | | | | | | Modulation | | | | RB # | | |
| | L | M | H | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 256QAM | 1 | Half | Full |
| 2 | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| 4 | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| 5 | v | v | v | v | v | v | v | - | - | v | v | v | v | v | v | v |
| 12 | v | v | v | v | v | v | v | - | - | v | v | v | v | v | v | v |
| 17 | v | v | v | - | - | v | v | - | - | v | v | v | v | v | v | v |
| 26 | v | v | v | v | v | v | v | v | - | v | v | v | v | v | v | v |
| 26 P90 | v | v | v | v | v | v | v | - | - | v | v | v | v | v | v | v |
| 41 | v | v | v | - | - | v | v | v | v | v | v | v | v | v | v | v |
| Test Items | | | | Frequency Stability | | | | | | | | | | | | |
| 2 | - | v | - | | | | v | | | v | - | - | - | - | - | v |
| 4 | - | v | - | | | | v | | | v | - | - | - | - | - | v |
| 5 | - | v | - | | | | v | - | - | v | - | - | - | - | - | v |
| 12 | - | v | - | | | | v | - | - | v | - | - | - | - | - | v |
| 17 | - | v | - | - | - | | v | - | - | v | - | - | - | - | - | v |
| 26 | - | v | - | | | | v | - | - | v | - | - | - | - | - | v |
| 26 P90 | - | v | - | | | | v | - | - | v | - | - | - | - | - | v |
| 41 | - | v | - | - | - | | v | | | v | - | - | - | - | - | v |
| Test Items | | | | 26dB and 99% Bandwidth | | | | | | | | | | | | |
| Band | Test Channel | | | Bandwidth (MHz) | | | | | | Modulation | | | | RB # | | |
| | L | M | H | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 64QAM | 1 | Half | Full |
| 2 | v | v | v | v | v | v | v | v | v | v | v | v | v | - | - | v |
| 4 | v | v | v | v | v | v | v | v | v | v | v | v | v | - | - | v |
| 5 | v | v | v | v | v | v | v | - | - | v | v | v | v | - | - | v |
| 12 | v | v | v | v | v | v | v | - | - | v | v | v | v | - | - | v |
| 17 | v | v | v | - | - | v | v | - | - | v | v | v | v | - | - | v |
| 26 | v | v | v | v | v | v | v | v | - | v | v | v | v | - | - | v |
| 26 P90 | v | v | v | v | v | v | v | - | - | v | v | v | v | - | - | v |
| 41 | v | v | v | - | - | v | v | v | v | v | v | v | v | - | - | v |
| Test Items | | | | Peak-to-Average Ratio | | | | | | | | | | | | |
| 2 | v | v | v | v | v | v | v | v | v | v | v | | | - | - | v |
| 4 | v | v | v | v | v | v | v | v | v | v | v | | | - | - | v |
| 5 | v | v | v | v | v | v | v | - | - | v | v | | | - | - | v |
| 12 | v | v | v | v | v | v | v | - | - | v | v | | | - | - | v |
| 17 | v | v | v | - | - | v | v | - | - | v | v | | | - | - | v |
| 26 | v | v | v | v | v | v | v | v | - | v | v | | | - | - | v |
| 26 P90 | v | v | v | v | v | v | v | - | - | v | v | | | - | - | v |

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| Test Items | | | | Band Edge | | | | | | | | | | | | |
|------------|--------------|---|---|-----------------|---|---|----|----|----|------------|-------|-------|-------|------|------|------|
| Band | Test Channel | | | Bandwidth (MHz) | | | | | | Modulation | | | | RB # | | |
| | L | M | H | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 64QAM | 1 | Half | Full |
| 2 | v | - | v | v | v | v | v | v | v | v | - | - | - | v | v | v |
| 4 | v | - | v | v | v | v | v | v | v | v | - | - | - | v | v | v |
| 5 | v | - | v | v | v | v | v | - | - | v | - | - | - | v | v | v |
| 12 | v | - | v | v | v | v | v | - | - | v | - | - | - | v | v | v |
| 17 | v | - | v | - | - | v | v | - | - | v | - | - | - | v | v | v |
| 26 | v | - | v | v | v | v | v | v | - | v | - | - | - | v | v | v |
| 26 P90 | v | - | v | v | v | v | v | - | - | v | - | - | - | v | v | v |
| 41 | v | - | v | - | - | v | v | v | v | v | - | - | - | v | v | v |

| Test Items | | | | Conducted Emission | | | | | | | | | | | | |
|------------|--------------|---|---|--------------------|---|---|----|----|----|------------|-------|-------|-------|------|------|------|
| Band | Test Channel | | | Bandwidth (MHz) | | | | | | Modulation | | | | RB # | | |
| | L | M | H | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 64QAM | 1 | Half | Full |
| 2 | v | v | v | v | v | v | v | v | v | v | - | - | - | v | - | - |
| 4 | v | v | v | v | v | v | v | v | v | v | - | - | - | v | - | - |
| 5 | v | v | v | v | v | v | v | - | - | v | - | - | - | v | - | - |
| 12 | v | v | v | v | v | v | v | - | - | v | - | - | - | v | - | - |
| 17 | v | v | v | - | - | v | v | - | - | v | - | - | - | v | - | - |
| 26 | v | v | v | v | v | v | v | v | - | v | - | - | - | v | - | - |
| 26 P90 | v | v | v | v | v | v | v | - | - | v | - | - | - | v | - | - |
| 41 | v | v | v | - | - | v | v | v | v | v | - | - | - | v | - | - |

| Test Items | | | | Radiated Emission | | | | | | | | | | | | |
|------------|--------------|---|---|-------------------|---|---|----|----|----|------------|-------|-------|--------|------|------|------|
| Band | Test Channel | | | Bandwidth (MHz) | | | | | | Modulation | | | | RB # | | |
| | L | M | H | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 256QAM | 1 | Half | Full |
| 2 | v | v | v | | | | | | v | | | v | | v | | |
| 4 | v | v | v | | | | | | v | | | v | | v | | |
| 5 | v | v | v | | | | v | - | - | v | | | | v | | |
| 12 | v | v | v | | | | v | - | - | | v | | | v | | |
| 17 | v | v | v | - | - | | v | - | - | | v | | | v | | |
| 26 | v | v | v | | | | | v | - | v | | | | v | | |
| 26 P90 | v | v | v | v | | | | - | - | v | | | | v | | |
| 41 | v | v | v | - | - | v | v | v | v | v | - | - | - | v | - | - |

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5 MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|--|-------------|
| RF Power Output | +/- 1 dB |
| ERP/ EIRP measurement | +/- 3 dB |
| | +/- 3 dB |
| Emission Bandwidth | +/- 1.53 Hz |
| Out of Band Emissions at Antenna Terminals and Band Edge | +/- 1.68 dB |
| Peak to Average Ratio | +/- 1 dB |
| Frequency Stability vs. Temperature | +/- 1.53 Hz |
| Frequency Stability vs. Voltage | +/- 1.53 Hz |
| Temperature | +/- 0.4 °C |
| Humidity | +/- 3.5 % |
| DC / AC Power Source | +/- 1 % |

| Radiated Spurious Emission Measurement Uncertainty | | |
|--|-------------|-----------------|
| Polarization: Vertical | +/- 2.57 dB | 9kHz~30MHz |
| | +/- 4.85 dB | 30MHz - 1000MHz |
| | +/- 4.45 dB | 1GHz - 18GHz |
| | +/- 4.24 dB | 18GHz - 40GHz |
| Polarization: Horizontal | +/- 2.57 dB | 9kHz~30MHz |
| | +/- 4.37 dB | 30MHz - 1000MHz |
| | +/- 4.45 dB | 1GHz - 18GHz |
| | +/- 4.24 dB | 18GHz - 40GHz |

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

| Conducted Emission Test Site: Conducted E | | | | | |
|---|-----------|----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| DC Power Supply | Gwinstek | SPS-3610 | GEV856769 | 08/04/2021 | 08/03/2022 |
| Radio Communication Analyser | Anritsu | MT8820C | 6201107337 | 07/28/2021 | 07/27/2022 |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY51440113 | 07/13/2021 | 07/12/2022 |
| Temperature Chamber | TERCHY | MHK-120LK | 1020582 | 07/01/2021 | 06/30/2022 |
| Attenuator | Marvelous | MVE2213-10 | RF06 | 11/18/2021 | 11/17/2022 |
| DC Block | PASTERNAK | PE8210 | RF158 | 11/18/2021 | 11/17/2022 |
| Coaxial Cables | Woken | 00100A1F1A185C | RF71 | 11/18/2021 | 11/17/2022 |
| Splitter | Woken | DOM35LW1A2 | RF255 | 11/18/2021 | 11/17/2022 |

6.2 Radiated Measurement

| Radiated Emission Test Site: SAC | | | | | |
|----------------------------------|-----------------|--------------------------------|--------------------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Broadband Antenna | SCHWARZBECK | VULB 9168 | 1206 | 02/15/2022 | 02/14/2023 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 184 | 12/16/2021 | 12/15/2022 |
| Horn Antenna | RF SPIN | DRH18-E | 210105A18E | 04/08/2022 | 04/07/2023 |
| 3m Site NSA | SGS | 966 chamber G | N/A | 03/30/2022 | 03/29/2023 |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY51440113 | 07/13/2021 | 07/12/2022 |
| Test Software | audix | e3 | E3 20923 SGS Ver.9 (C) | N.C.R | N.C.R |
| Pre-Amplifier | EMC Instruments | EMC184045B | 980135 | 10/27/2021 | 10/26/2022 |
| Pre-Amplifier | EMC Instruments | EMC330N | 980781 | 03/15/2022 | 03/14/2023 |
| Pre-Amplifier | EMC Instruments | EMC118A45SE | 980815 | 03/15/2022 | 03/14/2023 |
| Attenuator | Marvelous | MVE2213-10 | RF05 | 11/18/2021 | 11/17/2022 |
| Coaxial Cable | EMC Instruments | EMCCFD400-NM-NM-8000-5000-2000 | 210216、210217、210218 | 03/15/2022 | 03/14/2023 |
| Coaxial Cable | EMC Instruments | EMC104-SM-SM-8000-5000-5000 | 210219、210220、210221 | 03/15/2022 | 03/14/2023 |
| Coaxial Cable | EMC Instruments | EMC105-NM-NM-5000-15000 | 210224、210306 | 03/15/2022 | 03/14/2023 |

NOTE: N.C.R refers to Not Calibrated Required.

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7 MAXIMUM OUTPUT POWER

7.1 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.

7.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(c)

(9) Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

FCC 90.635(b)

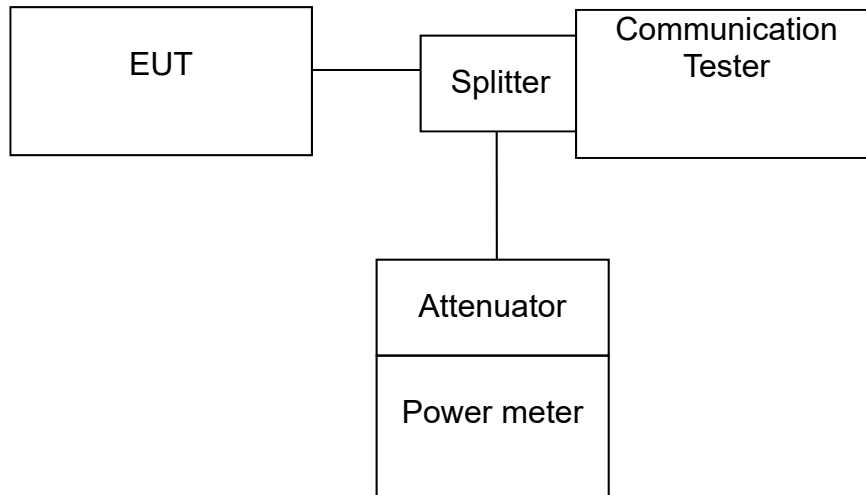
Mobile station is limited to 100W ERP

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7.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

7.3 Output Power Measurement Applicable Guidance

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.

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.

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7.4 Determining ERP and/or EIRP from conducted RF output power measurements

According to KDB 412172 D01 Power Approach,

$$EIRP = P_T + G_T - L_C,$$

$$ERP = EIRP - 2.15,$$

Where:

- ERP or EIRP = effective radiated power or equivalent isotropically radiated power (expressed in the same units as P_T , typically dBW, dBm, or power spectral density (PSD)²), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);
- P_T = transmitter output power, expressed in dBW, dBm, or PSD;
- G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
- L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

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7.5 Measurement Results:

| Antenna gain (dBi) | | 0.3 | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4 | 18607 | 1850.7 | QPSK | 1 | 0 | 22.33 | 22.63 | 33 | -10.37 |
| | | | | 1 | 5 | 22.50 | 22.80 | 33 | -10.2 |
| | | | | 3 | 2 | 22.45 | 22.75 | 33 | -10.25 |
| | | | | 6 | 0 | 21.20 | 21.50 | 33 | -11.5 |
| | 18900 | 1880 | QPSK | 1 | 0 | 21.34 | 21.64 | 33 | -11.36 |
| | | | | 1 | 5 | 21.34 | 21.64 | 33 | -11.36 |
| | | | | 3 | 2 | 21.21 | 21.51 | 33 | -11.49 |
| | | | | 6 | 0 | 20.46 | 20.76 | 33 | -12.24 |
| | 19193 | 1909.3 | QPSK | 1 | 0 | 20.40 | 20.70 | 33 | -12.3 |
| | | | | 1 | 5 | 20.48 | 20.78 | 33 | -12.22 |
| | | | | 3 | 2 | 20.22 | 20.52 | 33 | -12.48 |
| | | | | 6 | 0 | 19.39 | 19.69 | 33 | -13.31 |
| 1.4 | 18607 | 1850.7 | 16QAM | 1 | 0 | 22.45 | 22.75 | 33 | -10.25 |
| | | | | 1 | 5 | 22.33 | 22.63 | 33 | -10.37 |
| | | | | 3 | 2 | 22.27 | 22.57 | 33 | -10.43 |
| | | | | 6 | 0 | 21.24 | 21.54 | 33 | -11.46 |
| | 18900 | 1880 | 16QAM | 1 | 0 | 21.48 | 21.78 | 33 | -11.22 |
| | | | | 1 | 5 | 21.39 | 21.69 | 33 | -11.31 |
| | | | | 3 | 2 | 21.45 | 21.75 | 33 | -11.25 |
| | | | | 6 | 0 | 20.49 | 20.79 | 33 | -12.21 |
| | 19193 | 1909.3 | 16QAM | 1 | 0 | 20.33 | 20.63 | 33 | -12.37 |
| | | | | 1 | 5 | 20.27 | 20.57 | 33 | -12.43 |
| | | | | 3 | 2 | 20.42 | 20.72 | 33 | -12.28 |
| | | | | 6 | 0 | 19.43 | 19.73 | 33 | -13.27 |
| 1.4 | 18607 | 1850.7 | 64QAM | 1 | 0 | 22.33 | 22.63 | 33 | -10.37 |
| | | | | 1 | 5 | 22.36 | 22.66 | 33 | -10.34 |
| | | | | 3 | 2 | 22.47 | 22.77 | 33 | -10.23 |
| | | | | 6 | 0 | 21.38 | 21.68 | 33 | -11.32 |
| | 18900 | 1880 | 64QAM | 1 | 0 | 21.48 | 21.78 | 33 | -11.22 |
| | | | | 1 | 5 | 21.29 | 21.59 | 33 | -11.41 |
| | | | | 3 | 2 | 21.45 | 21.75 | 33 | -11.25 |
| | | | | 6 | 0 | 20.43 | 20.73 | 33 | -12.27 |
| | 19193 | 1909.3 | 64QAM | 1 | 0 | 20.26 | 20.56 | 33 | -12.44 |
| | | | | 1 | 5 | 20.48 | 20.78 | 33 | -12.22 |
| | | | | 3 | 2 | 20.33 | 20.63 | 33 | -12.37 |
| | | | | 6 | 0 | 19.42 | 19.72 | 33 | -13.28 |

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| Antenna gain (dBi) | | 0.3 | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3 | 18615 | 1851.5 | QPSK | 1 | 0 | 22.49 | 22.79 | 33 | -10.21 |
| | | | | 1 | 14 | 22.21 | 22.51 | 33 | -10.49 |
| | | | | 8 | 4 | 21.50 | 21.80 | 33 | -11.2 |
| | | | | 15 | 0 | 21.39 | 21.69 | 33 | -11.31 |
| | 18900 | 1880 | QPSK | 1 | 0 | 21.38 | 21.68 | 33 | -11.32 |
| | | | | 1 | 14 | 21.45 | 21.75 | 33 | -11.25 |
| | | | | 8 | 4 | 20.31 | 20.61 | 33 | -12.39 |
| | | | | 15 | 0 | 20.48 | 20.78 | 33 | -12.22 |
| | 19185 | 1908.5 | QPSK | 1 | 0 | 20.27 | 20.57 | 33 | -12.43 |
| | | | | 1 | 14 | 20.21 | 20.51 | 33 | -12.49 |
| | | | | 8 | 4 | 19.28 | 19.58 | 33 | -13.42 |
| | | | | 15 | 0 | 19.31 | 19.61 | 33 | -13.39 |
| 3 | 18615 | 1851.5 | 16QAM | 1 | 0 | 22.42 | 22.72 | 33 | -10.28 |
| | | | | 1 | 14 | 22.39 | 22.69 | 33 | -10.31 |
| | | | | 8 | 4 | 21.28 | 21.58 | 33 | -11.42 |
| | | | | 15 | 0 | 21.37 | 21.67 | 33 | -11.33 |
| | 18900 | 1880 | 16QAM | 1 | 0 | 21.36 | 21.66 | 33 | -11.34 |
| | | | | 1 | 14 | 21.28 | 21.58 | 33 | -11.42 |
| | | | | 8 | 4 | 20.31 | 20.61 | 33 | -12.39 |
| | | | | 15 | 0 | 20.37 | 20.67 | 33 | -12.33 |
| | 19185 | 1908.5 | 16QAM | 1 | 0 | 20.24 | 20.54 | 33 | -12.46 |
| | | | | 1 | 14 | 20.43 | 20.73 | 33 | -12.27 |
| | | | | 8 | 4 | 19.30 | 19.60 | 33 | -13.4 |
| | | | | 15 | 0 | 19.35 | 19.65 | 33 | -13.35 |
| 3 | 18615 | 1851.5 | 64QAM | 1 | 0 | 22.34 | 22.64 | 33 | -10.36 |
| | | | | 1 | 14 | 22.20 | 22.50 | 33 | -10.5 |
| | | | | 8 | 4 | 21.24 | 21.54 | 33 | -11.46 |
| | | | | 15 | 0 | 21.22 | 21.52 | 33 | -11.48 |
| | 18900 | 1880 | 64QAM | 1 | 0 | 21.23 | 21.53 | 33 | -11.47 |
| | | | | 1 | 14 | 21.28 | 21.58 | 33 | -11.42 |
| | | | | 8 | 4 | 20.33 | 20.63 | 33 | -12.37 |
| | | | | 15 | 0 | 20.27 | 20.57 | 33 | -12.43 |
| | 19185 | 1908.5 | 64QAM | 1 | 0 | 20.30 | 20.60 | 33 | -12.4 |
| | | | | 1 | 14 | 20.29 | 20.59 | 33 | -12.41 |
| | | | | 8 | 4 | 19.28 | 19.58 | 33 | -13.42 |
| | | | | 15 | 0 | 19.34 | 19.64 | 33 | -13.36 |

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| Antenna gain (dBi) | | 0.3 | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 18625 | 1852.5 | QPSK | 1 | 0 | 22.24 | 22.54 | 33 | -10.46 |
| | | | | 1 | 24 | 22.31 | 22.61 | 33 | -10.39 |
| | | | | 12 | 6 | 21.45 | 21.75 | 33 | -11.25 |
| | | | | 25 | 0 | 21.21 | 21.51 | 33 | -11.49 |
| | 18900 | 1880 | QPSK | 1 | 0 | 21.46 | 21.76 | 33 | -11.24 |
| | | | | 1 | 24 | 21.25 | 21.55 | 33 | -11.45 |
| | | | | 12 | 6 | 20.23 | 20.53 | 33 | -12.47 |
| | | | | 25 | 0 | 20.45 | 20.75 | 33 | -12.25 |
| | 19175 | 1907.5 | QPSK | 1 | 0 | 20.40 | 20.70 | 33 | -12.3 |
| | | | | 1 | 24 | 20.26 | 20.56 | 33 | -12.44 |
| | | | | 12 | 6 | 19.28 | 19.58 | 33 | -13.42 |
| | | | | 25 | 0 | 19.33 | 19.63 | 33 | -13.37 |
| 5 | 18625 | 1852.5 | 16QAM | 1 | 0 | 22.45 | 22.75 | 33 | -10.25 |
| | | | | 1 | 24 | 22.35 | 22.65 | 33 | -10.35 |
| | | | | 12 | 6 | 21.22 | 21.52 | 33 | -11.48 |
| | | | | 25 | 0 | 21.26 | 21.56 | 33 | -11.44 |
| | 18900 | 1880 | 16QAM | 1 | 0 | 21.27 | 21.57 | 33 | -11.43 |
| | | | | 1 | 24 | 21.20 | 21.50 | 33 | -11.5 |
| | | | | 12 | 6 | 20.50 | 20.80 | 33 | -12.2 |
| | | | | 25 | 0 | 20.43 | 20.73 | 33 | -12.27 |
| | 19175 | 1907.5 | 16QAM | 1 | 0 | 20.44 | 20.74 | 33 | -12.26 |
| | | | | 1 | 24 | 20.41 | 20.71 | 33 | -12.29 |
| | | | | 12 | 6 | 19.44 | 19.74 | 33 | -13.26 |
| | | | | 25 | 0 | 19.24 | 19.54 | 33 | -13.46 |
| 5 | 18625 | 1852.5 | 64QAM | 1 | 0 | 22.27 | 22.57 | 33 | -10.43 |
| | | | | 1 | 24 | 22.38 | 22.68 | 33 | -10.32 |
| | | | | 12 | 6 | 21.43 | 21.73 | 33 | -11.27 |
| | | | | 25 | 0 | 21.29 | 21.59 | 33 | -11.41 |
| | 18900 | 1880 | 64QAM | 1 | 0 | 21.37 | 21.67 | 33 | -11.33 |
| | | | | 1 | 24 | 21.29 | 21.59 | 33 | -11.41 |
| | | | | 12 | 6 | 20.22 | 20.52 | 33 | -12.48 |
| | | | | 25 | 0 | 20.39 | 20.69 | 33 | -12.31 |
| | 19175 | 1907.5 | 64QAM | 1 | 0 | 20.29 | 20.59 | 33 | -12.41 |
| | | | | 1 | 24 | 20.30 | 20.60 | 33 | -12.4 |
| | | | | 12 | 6 | 19.39 | 19.69 | 33 | -13.31 |
| | | | | 25 | 0 | 19.38 | 19.68 | 33 | -13.32 |

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| Antenna gain (dBi) | | 0.3 | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 18650 | 1855 | QPSK | 1 | 0 | 22.48 | 22.78 | 33 | -10.22 |
| | | | | 1 | 49 | 22.36 | 22.66 | 33 | -10.34 |
| | | | | 25 | 12 | 21.32 | 21.62 | 33 | -11.38 |
| | | | | 50 | 0 | 21.41 | 21.71 | 33 | -11.29 |
| | 18900 | 1880 | QPSK | 1 | 0 | 21.39 | 21.69 | 33 | -11.31 |
| | | | | 1 | 49 | 21.23 | 21.53 | 33 | -11.47 |
| | | | | 25 | 12 | 20.39 | 20.69 | 33 | -12.31 |
| | | | | 50 | 0 | 20.42 | 20.72 | 33 | -12.28 |
| | 19150 | 1905 | QPSK | 1 | 0 | 20.39 | 20.69 | 33 | -12.31 |
| | | | | 1 | 49 | 20.46 | 20.76 | 33 | -12.24 |
| | | | | 25 | 12 | 19.46 | 19.76 | 33 | -13.24 |
| | | | | 50 | 0 | 19.29 | 19.59 | 33 | -13.41 |
| 10 | 18650 | 1855 | 16QAM | 1 | 0 | 22.44 | 22.74 | 33 | -10.26 |
| | | | | 1 | 49 | 22.39 | 22.69 | 33 | -10.31 |
| | | | | 25 | 12 | 21.20 | 21.50 | 33 | -11.5 |
| | | | | 50 | 0 | 21.24 | 21.54 | 33 | -11.46 |
| | 18900 | 1880 | 16QAM | 1 | 0 | 21.25 | 21.55 | 33 | -11.45 |
| | | | | 1 | 49 | 21.32 | 21.62 | 33 | -11.38 |
| | | | | 25 | 12 | 20.38 | 20.68 | 33 | -12.32 |
| | | | | 50 | 0 | 20.44 | 20.74 | 33 | -12.26 |
| | 19150 | 1905 | 16QAM | 1 | 0 | 20.47 | 20.77 | 33 | -12.23 |
| | | | | 1 | 49 | 20.50 | 20.80 | 33 | -12.2 |
| | | | | 25 | 12 | 19.36 | 19.66 | 33 | -13.34 |
| | | | | 50 | 0 | 19.20 | 19.50 | 33 | -13.5 |
| 10 | 18650 | 1855 | 64QAM | 1 | 0 | 22.35 | 22.65 | 33 | -10.35 |
| | | | | 1 | 49 | 22.38 | 22.68 | 33 | -10.32 |
| | | | | 25 | 12 | 21.49 | 21.79 | 33 | -11.21 |
| | | | | 50 | 0 | 21.29 | 21.59 | 33 | -11.41 |
| | 18900 | 1880 | 64QAM | 1 | 0 | 21.43 | 21.73 | 33 | -11.27 |
| | | | | 1 | 49 | 21.46 | 21.76 | 33 | -11.24 |
| | | | | 25 | 12 | 20.24 | 20.54 | 33 | -12.46 |
| | | | | 50 | 0 | 20.29 | 20.59 | 33 | -12.41 |
| | 19150 | 1905 | 64QAM | 1 | 0 | 20.27 | 20.57 | 33 | -12.43 |
| | | | | 1 | 49 | 20.21 | 20.51 | 33 | -12.49 |
| | | | | 25 | 12 | 19.41 | 19.71 | 33 | -13.29 |
| | | | | 50 | 0 | 19.34 | 19.64 | 33 | -13.36 |

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| Antenna gain (dBi) | | 0.3 | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15 | 18675 | 1857.5 | QPSK | 1 | 0 | 22.23 | 22.53 | 33 | -10.47 |
| | | | | 1 | 74 | 22.34 | 22.64 | 33 | -10.36 |
| | | | | 36 | 18 | 21.43 | 21.73 | 33 | -11.27 |
| | | | | 75 | 0 | 21.34 | 21.64 | 33 | -11.36 |
| | 18900 | 1880 | QPSK | 1 | 0 | 21.41 | 21.71 | 33 | -11.29 |
| | | | | 1 | 74 | 21.24 | 21.54 | 33 | -11.46 |
| | | | | 36 | 18 | 20.38 | 20.68 | 33 | -12.32 |
| | | | | 75 | 0 | 20.24 | 20.54 | 33 | -12.46 |
| | 19125 | 1902.5 | QPSK | 1 | 0 | 20.35 | 20.65 | 33 | -12.35 |
| | | | | 1 | 74 | 20.40 | 20.70 | 33 | -12.3 |
| | | | | 36 | 18 | 19.20 | 19.50 | 33 | -13.5 |
| | | | | 75 | 0 | 19.40 | 19.70 | 33 | -13.3 |
| 15 | 18675 | 1857.5 | 16QAM | 1 | 0 | 22.44 | 22.74 | 33 | -10.26 |
| | | | | 1 | 74 | 22.48 | 22.78 | 33 | -10.22 |
| | | | | 36 | 18 | 21.49 | 21.79 | 33 | -11.21 |
| | | | | 75 | 0 | 21.30 | 21.60 | 33 | -11.4 |
| | 18900 | 1880 | 16QAM | 1 | 0 | 21.21 | 21.51 | 33 | -11.49 |
| | | | | 1 | 74 | 21.41 | 21.71 | 33 | -11.29 |
| | | | | 36 | 18 | 20.32 | 20.62 | 33 | -12.38 |
| | | | | 75 | 0 | 20.21 | 20.51 | 33 | -12.49 |
| | 19125 | 1902.5 | 16QAM | 1 | 0 | 20.37 | 20.67 | 33 | -12.33 |
| | | | | 1 | 74 | 20.28 | 20.58 | 33 | -12.42 |
| | | | | 36 | 18 | 19.38 | 19.68 | 33 | -13.32 |
| | | | | 75 | 0 | 19.46 | 19.76 | 33 | -13.24 |
| 15 | 18675 | 1857.5 | 64QAM | 1 | 0 | 22.34 | 22.64 | 33 | -10.36 |
| | | | | 1 | 74 | 22.32 | 22.62 | 33 | -10.38 |
| | | | | 36 | 18 | 21.43 | 21.73 | 33 | -11.27 |
| | | | | 75 | 0 | 21.40 | 21.70 | 33 | -11.3 |
| | 18900 | 1880 | 64QAM | 1 | 0 | 21.24 | 21.54 | 33 | -11.46 |
| | | | | 1 | 74 | 21.25 | 21.55 | 33 | -11.45 |
| | | | | 36 | 18 | 20.36 | 20.66 | 33 | -12.34 |
| | | | | 75 | 0 | 20.23 | 20.53 | 33 | -12.47 |
| | 19125 | 1902.5 | 64QAM | 1 | 0 | 20.41 | 20.71 | 33 | -12.29 |
| | | | | 1 | 74 | 20.41 | 20.71 | 33 | -12.29 |
| | | | | 36 | 18 | 19.25 | 19.55 | 33 | -13.45 |
| | | | | 75 | 0 | 19.23 | 19.53 | 33 | -13.47 |

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| Antenna gain (dBi) | | 0.3 | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 2_Uplink frequency band : 1850 to 1910 MHz | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20 | 18700 | 1860 | QPSK | 1 | 0 | 22.54 | 22.84 | 33 | -10.16 |
| | | | | 1 | 99 | 22.29 | 22.59 | 33 | -10.41 |
| | | | | 50 | 25 | 21.37 | 21.67 | 33 | -11.33 |
| | | | | 100 | 0 | 21.73 | 22.03 | 33 | -10.97 |
| | 18900 | 1880 | QPSK | 1 | 0 | 21.81 | 22.11 | 33 | -10.89 |
| | | | | 1 | 99 | 21.61 | 21.91 | 33 | -11.09 |
| | | | | 50 | 25 | 20.55 | 20.85 | 33 | -12.15 |
| | | | | 100 | 0 | 20.68 | 20.98 | 33 | -12.02 |
| | 19100 | 1900 | QPSK | 1 | 0 | 20.31 | 20.61 | 33 | -12.39 |
| | | | | 1 | 99 | 20.22 | 20.52 | 33 | -12.48 |
| | | | | 50 | 25 | 19.46 | 19.76 | 33 | -13.24 |
| | | | | 100 | 0 | 19.22 | 19.52 | 33 | -13.48 |
| 20 | 18700 | 1860 | 16QAM | 1 | 0 | 22.58 | 22.88 | 33 | -10.12 |
| | | | | 1 | 99 | 22.33 | 22.63 | 33 | -10.37 |
| | | | | 50 | 25 | 21.46 | 21.76 | 33 | -11.24 |
| | | | | 100 | 0 | 21.44 | 21.74 | 33 | -11.26 |
| | 18900 | 1880 | 16QAM | 1 | 0 | 21.82 | 22.12 | 33 | -10.88 |
| | | | | 1 | 99 | 21.74 | 22.04 | 33 | -10.96 |
| | | | | 50 | 25 | 20.56 | 20.86 | 33 | -12.14 |
| | | | | 100 | 0 | 20.58 | 20.88 | 33 | -12.12 |
| | 19100 | 1900 | 16QAM | 1 | 0 | 20.28 | 20.58 | 33 | -12.42 |
| | | | | 1 | 99 | 20.39 | 20.69 | 33 | -12.31 |
| | | | | 50 | 25 | 19.28 | 19.58 | 33 | -13.42 |
| | | | | 100 | 0 | 19.34 | 19.64 | 33 | -13.36 |
| 20 | 18700 | 1860 | 64QAM | 1 | 0 | 22.64 | 22.94 | 33 | -10.06 |
| | | | | 1 | 99 | 22.32 | 22.62 | 33 | -10.38 |
| | | | | 50 | 25 | 21.51 | 21.81 | 33 | -11.19 |
| | | | | 100 | 0 | 21.39 | 21.69 | 33 | -11.31 |
| | 18900 | 1880 | 64QAM | 1 | 0 | 21.75 | 22.05 | 33 | -10.95 |
| | | | | 1 | 99 | 21.69 | 21.99 | 33 | -11.01 |
| | | | | 50 | 25 | 20.66 | 20.96 | 33 | -12.04 |
| | | | | 100 | 0 | 20.57 | 20.87 | 33 | -12.13 |
| | 19100 | 1900 | 64QAM | 1 | 0 | 20.43 | 20.73 | 33 | -12.27 |
| | | | | 1 | 99 | 20.23 | 20.53 | 33 | -12.47 |
| | | | | 50 | 25 | 19.32 | 19.62 | 33 | -13.38 |
| | | | | 100 | 0 | 19.46 | 19.76 | 33 | -13.24 |

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| Antenna gain (dBi) | | -0.8 | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 1.4 | 19957 | 1710.7 | QPSK | 1 | 0 | 21.66 | 20.86 | 30 | -9.14 |
| | | | | 1 | 5 | 21.64 | 20.84 | 30 | -9.16 |
| | | | | 3 | 2 | 20.66 | 19.86 | 30 | -10.14 |
| | | | | 6 | 0 | 20.64 | 19.84 | 30 | -10.16 |
| | 20175 | 1732.5 | QPSK | 1 | 0 | 20.61 | 19.81 | 30 | -10.19 |
| | | | | 1 | 5 | 20.66 | 19.86 | 30 | -10.14 |
| | | | | 3 | 2 | 20.70 | 19.90 | 30 | -10.1 |
| | | | | 6 | 0 | 19.68 | 18.88 | 30 | -11.12 |
| | 20393 | 1754.3 | QPSK | 1 | 0 | 19.64 | 18.84 | 30 | -11.16 |
| | | | | 1 | 5 | 19.71 | 18.91 | 30 | -11.09 |
| | | | | 3 | 2 | 19.69 | 18.89 | 30 | -11.11 |
| | | | | 6 | 0 | 18.61 | 17.81 | 30 | -12.19 |
| 1.4 | 19957 | 1710.7 | 16QAM | 1 | 0 | 21.63 | 20.83 | 30 | -9.17 |
| | | | | 1 | 5 | 21.70 | 20.90 | 30 | -9.1 |
| | | | | 3 | 2 | 20.70 | 19.90 | 30 | -10.1 |
| | | | | 6 | 0 | 20.62 | 19.82 | 30 | -10.18 |
| | 20175 | 1732.5 | 16QAM | 1 | 0 | 20.64 | 19.84 | 30 | -10.16 |
| | | | | 1 | 5 | 20.65 | 19.85 | 30 | -10.15 |
| | | | | 3 | 2 | 20.66 | 19.86 | 30 | -10.14 |
| | | | | 6 | 0 | 19.65 | 18.85 | 30 | -11.15 |
| | 20393 | 1754.3 | 16QAM | 1 | 0 | 19.70 | 18.90 | 30 | -11.1 |
| | | | | 1 | 5 | 19.64 | 18.84 | 30 | -11.16 |
| | | | | 3 | 2 | 19.61 | 18.81 | 30 | -11.19 |
| | | | | 6 | 0 | 18.71 | 17.91 | 30 | -12.09 |
| 1.4 | 19957 | 1710.7 | 64QAM | 1 | 0 | 21.61 | 20.81 | 30 | -9.19 |
| | | | | 1 | 5 | 21.67 | 20.87 | 30 | -9.13 |
| | | | | 3 | 2 | 20.68 | 19.88 | 30 | -10.12 |
| | | | | 6 | 0 | 20.68 | 19.88 | 30 | -10.12 |
| | 20175 | 1732.5 | 64QAM | 1 | 0 | 20.64 | 19.84 | 30 | -10.16 |
| | | | | 1 | 5 | 20.68 | 19.88 | 30 | -10.12 |
| | | | | 3 | 2 | 20.69 | 19.89 | 30 | -10.11 |
| | | | | 6 | 0 | 19.61 | 18.81 | 30 | -11.19 |
| | 20393 | 1754.3 | 64QAM | 1 | 0 | 19.71 | 18.91 | 30 | -11.09 |
| | | | | 1 | 5 | 19.71 | 18.91 | 30 | -11.09 |
| | | | | 3 | 2 | 19.63 | 18.83 | 30 | -11.17 |
| | | | | 6 | 0 | 18.62 | 17.82 | 30 | -12.18 |

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| Antenna gain (dBi) | | -0.8 | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 3 | 19965 | 1711.5 | QPSK | 1 | 0 | 21.62 | 20.82 | 30 | -9.18 |
| | | | | 1 | 14 | 21.63 | 20.83 | 30 | -9.17 |
| | | | | 8 | 4 | 20.69 | 19.89 | 30 | -10.11 |
| | | | | 15 | 0 | 20.63 | 19.83 | 30 | -10.17 |
| | 20175 | 1732.5 | QPSK | 1 | 0 | 20.71 | 19.91 | 30 | -10.09 |
| | | | | 1 | 14 | 20.71 | 19.91 | 30 | -10.09 |
| | | | | 8 | 4 | 19.71 | 18.91 | 30 | -11.09 |
| | | | | 15 | 0 | 19.69 | 18.89 | 30 | -11.11 |
| | 20385 | 1753.5 | QPSK | 1 | 0 | 19.66 | 18.86 | 30 | -11.14 |
| | | | | 1 | 14 | 19.64 | 18.84 | 30 | -11.16 |
| | | | | 8 | 4 | 18.62 | 17.82 | 30 | -12.18 |
| | | | | 15 | 0 | 18.69 | 17.89 | 30 | -12.11 |
| 3 | 19965 | 1711.5 | 16QAM | 1 | 0 | 21.69 | 20.89 | 30 | -9.11 |
| | | | | 1 | 14 | 21.67 | 20.87 | 30 | -9.13 |
| | | | | 8 | 4 | 20.68 | 19.88 | 30 | -10.12 |
| | | | | 15 | 0 | 20.62 | 19.82 | 30 | -10.18 |
| | 20175 | 1732.5 | 16QAM | 1 | 0 | 20.70 | 19.90 | 30 | -10.1 |
| | | | | 1 | 14 | 20.65 | 19.85 | 30 | -10.15 |
| | | | | 8 | 4 | 19.61 | 18.81 | 30 | -11.19 |
| | | | | 15 | 0 | 19.70 | 18.90 | 30 | -11.1 |
| | 20385 | 1753.5 | 16QAM | 1 | 0 | 19.64 | 18.84 | 30 | -11.16 |
| | | | | 1 | 14 | 19.62 | 18.82 | 30 | -11.18 |
| | | | | 8 | 4 | 18.64 | 17.84 | 30 | -12.16 |
| | | | | 15 | 0 | 18.67 | 17.87 | 30 | -12.13 |
| 3 | 19965 | 1711.5 | 64QAM | 1 | 0 | 21.71 | 20.91 | 30 | -9.09 |
| | | | | 1 | 14 | 21.64 | 20.84 | 30 | -9.16 |
| | | | | 8 | 4 | 20.71 | 19.91 | 30 | -10.09 |
| | | | | 15 | 0 | 20.71 | 19.91 | 30 | -10.09 |
| | 20175 | 1732.5 | 64QAM | 1 | 0 | 20.69 | 19.89 | 30 | -10.11 |
| | | | | 1 | 14 | 20.68 | 19.88 | 30 | -10.12 |
| | | | | 8 | 4 | 19.68 | 18.88 | 30 | -11.12 |
| | | | | 15 | 0 | 19.65 | 18.85 | 30 | -11.15 |
| | 20385 | 1753.5 | 64QAM | 1 | 0 | 19.65 | 18.85 | 30 | -11.15 |
| | | | | 1 | 14 | 19.63 | 18.83 | 30 | -11.17 |
| | | | | 8 | 4 | 18.70 | 17.90 | 30 | -12.1 |
| | | | | 15 | 0 | 18.66 | 17.86 | 30 | -12.14 |

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| Antenna gain (dBi) | | -0.8 | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 19975 | 1712.5 | QPSK | 1 | 0 | 21.87 | 21.07 | 30 | -8.93 |
| | | | | 1 | 24 | 21.85 | 21.05 | 30 | -8.95 |
| | | | | 12 | 6 | 20.62 | 19.82 | 30 | -10.18 |
| | | | | 25 | 0 | 20.70 | 19.90 | 30 | -10.1 |
| | 20175 | 1732.5 | QPSK | 1 | 0 | 20.65 | 19.85 | 30 | -10.15 |
| | | | | 1 | 24 | 20.70 | 19.90 | 30 | -10.1 |
| | | | | 12 | 6 | 19.68 | 18.88 | 30 | -11.12 |
| | | | | 25 | 0 | 19.71 | 18.91 | 30 | -11.09 |
| | 20375 | 1752.5 | QPSK | 1 | 0 | 19.67 | 18.87 | 30 | -11.13 |
| | | | | 1 | 24 | 19.62 | 18.82 | 30 | -11.18 |
| | | | | 12 | 6 | 18.64 | 17.84 | 30 | -12.16 |
| | | | | 25 | 0 | 18.71 | 17.91 | 30 | -12.09 |
| 5 | 19975 | 1712.5 | 16QAM | 1 | 0 | 21.82 | 21.02 | 30 | -8.98 |
| | | | | 1 | 24 | 21.84 | 21.04 | 30 | -8.96 |
| | | | | 12 | 6 | 20.63 | 19.83 | 30 | -10.17 |
| | | | | 25 | 0 | 20.64 | 19.84 | 30 | -10.16 |
| | 20175 | 1732.5 | 16QAM | 1 | 0 | 20.69 | 19.89 | 30 | -10.11 |
| | | | | 1 | 24 | 20.66 | 19.86 | 30 | -10.14 |
| | | | | 12 | 6 | 19.67 | 18.87 | 30 | -11.13 |
| | | | | 25 | 0 | 19.65 | 18.85 | 30 | -11.15 |
| | 20375 | 1752.5 | 16QAM | 1 | 0 | 19.64 | 18.84 | 30 | -11.16 |
| | | | | 1 | 24 | 19.71 | 18.91 | 30 | -11.09 |
| | | | | 12 | 6 | 18.63 | 17.83 | 30 | -12.17 |
| | | | | 25 | 0 | 18.61 | 17.81 | 30 | -12.19 |
| 5 | 19975 | 1712.5 | 64QAM | 1 | 0 | 21.81 | 21.01 | 30 | -8.99 |
| | | | | 1 | 24 | 21.82 | 21.02 | 30 | -8.98 |
| | | | | 12 | 6 | 20.67 | 19.87 | 30 | -10.13 |
| | | | | 25 | 0 | 20.69 | 19.89 | 30 | -10.11 |
| | 20175 | 1732.5 | 64QAM | 1 | 0 | 20.61 | 19.81 | 30 | -10.19 |
| | | | | 1 | 24 | 20.61 | 19.81 | 30 | -10.19 |
| | | | | 12 | 6 | 19.63 | 18.83 | 30 | -11.17 |
| | | | | 25 | 0 | 19.70 | 18.90 | 30 | -11.1 |
| | 20375 | 1752.5 | 64QAM | 1 | 0 | 19.63 | 18.83 | 30 | -11.17 |
| | | | | 1 | 24 | 19.69 | 18.89 | 30 | -11.11 |
| | | | | 12 | 6 | 18.69 | 17.89 | 30 | -12.11 |
| | | | | 25 | 0 | 18.62 | 17.82 | 30 | -12.18 |

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| Antenna gain (dBi) | | -0.8 | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 20000 | 1715 | QPSK | 1 | 0 | 21.87 | 21.07 | 30 | -8.93 |
| | | | | 1 | 49 | 21.81 | 21.01 | 30 | -8.99 |
| | | | | 25 | 12 | 20.70 | 19.90 | 30 | -10.1 |
| | | | | 50 | 0 | 20.63 | 19.83 | 30 | -10.17 |
| | 20175 | 1732.5 | QPSK | 1 | 0 | 20.69 | 19.89 | 30 | -10.11 |
| | | | | 1 | 49 | 20.66 | 19.86 | 30 | -10.14 |
| | | | | 25 | 12 | 19.64 | 18.84 | 30 | -11.16 |
| | | | | 50 | 0 | 19.65 | 18.85 | 30 | -11.15 |
| | 20350 | 1750 | QPSK | 1 | 0 | 19.66 | 18.86 | 30 | -11.14 |
| | | | | 1 | 49 | 19.61 | 18.81 | 30 | -11.19 |
| | | | | 25 | 12 | 18.70 | 17.90 | 30 | -12.1 |
| | | | | 50 | 0 | 18.65 | 17.85 | 30 | -12.15 |
| 10 | 20000 | 1715 | 16QAM | 1 | 0 | 21.82 | 21.02 | 30 | -8.98 |
| | | | | 1 | 49 | 21.81 | 21.01 | 30 | -8.99 |
| | | | | 25 | 12 | 20.63 | 19.83 | 30 | -10.17 |
| | | | | 50 | 0 | 20.66 | 19.86 | 30 | -10.14 |
| | 20175 | 1732.5 | 16QAM | 1 | 0 | 20.61 | 19.81 | 30 | -10.19 |
| | | | | 1 | 49 | 20.71 | 19.91 | 30 | -10.09 |
| | | | | 25 | 12 | 19.68 | 18.88 | 30 | -11.12 |
| | | | | 50 | 0 | 19.70 | 18.90 | 30 | -11.1 |
| | 20350 | 1750 | 16QAM | 1 | 0 | 19.65 | 18.85 | 30 | -11.15 |
| | | | | 1 | 49 | 19.69 | 18.89 | 30 | -11.11 |
| | | | | 25 | 12 | 18.63 | 17.83 | 30 | -12.17 |
| | | | | 50 | 0 | 18.68 | 17.88 | 30 | -12.12 |
| 10 | 20000 | 1715 | 64QAM | 1 | 0 | 21.91 | 21.11 | 30 | -8.89 |
| | | | | 1 | 49 | 21.86 | 21.06 | 30 | -8.94 |
| | | | | 25 | 12 | 20.64 | 19.84 | 30 | -10.16 |
| | | | | 50 | 0 | 20.69 | 19.89 | 30 | -10.11 |
| | 20175 | 1732.5 | 64QAM | 1 | 0 | 20.70 | 19.90 | 30 | -10.1 |
| | | | | 1 | 49 | 20.66 | 19.86 | 30 | -10.14 |
| | | | | 25 | 12 | 19.64 | 18.84 | 30 | -11.16 |
| | | | | 50 | 0 | 19.62 | 18.82 | 30 | -11.18 |
| | 20350 | 1750 | 64QAM | 1 | 0 | 19.62 | 18.82 | 30 | -11.18 |
| | | | | 1 | 49 | 19.66 | 18.86 | 30 | -11.14 |
| | | | | 25 | 12 | 18.67 | 17.87 | 30 | -12.13 |
| | | | | 50 | 0 | 18.70 | 17.90 | 30 | -12.1 |

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| Antenna gain (dBi) | | -0.8 | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15 | 20025 | 1717.5 | QPSK | 1 | 0 | 21.86 | 21.06 | 30 | -8.94 |
| | | | | 1 | 74 | 21.82 | 21.02 | 30 | -8.98 |
| | | | | 36 | 18 | 20.68 | 19.88 | 30 | -10.12 |
| | | | | 75 | 0 | 20.68 | 19.88 | 30 | -10.12 |
| | 20175 | 1732.5 | QPSK | 1 | 0 | 20.69 | 19.89 | 30 | -10.11 |
| | | | | 1 | 74 | 20.68 | 19.88 | 30 | -10.12 |
| | | | | 36 | 18 | 19.69 | 18.89 | 30 | -11.11 |
| | | | | 75 | 0 | 19.65 | 18.85 | 30 | -11.15 |
| | 20325 | 1747.5 | QPSK | 1 | 0 | 19.66 | 18.86 | 30 | -11.14 |
| | | | | 1 | 74 | 19.68 | 18.88 | 30 | -11.12 |
| | | | | 36 | 18 | 18.67 | 17.87 | 30 | -12.13 |
| | | | | 75 | 0 | 18.65 | 17.85 | 30 | -12.15 |
| 15 | 20025 | 1717.5 | 16QAM | 1 | 0 | 21.90 | 21.10 | 30 | -8.9 |
| | | | | 1 | 74 | 21.91 | 21.11 | 30 | -8.89 |
| | | | | 36 | 18 | 20.68 | 19.88 | 30 | -10.12 |
| | | | | 75 | 0 | 20.66 | 19.86 | 30 | -10.14 |
| | 20175 | 1732.5 | 16QAM | 1 | 0 | 20.63 | 19.83 | 30 | -10.17 |
| | | | | 1 | 74 | 20.64 | 19.84 | 30 | -10.16 |
| | | | | 36 | 18 | 19.67 | 18.87 | 30 | -11.13 |
| | | | | 75 | 0 | 19.65 | 18.85 | 30 | -11.15 |
| | 20325 | 1747.5 | 16QAM | 1 | 0 | 19.69 | 18.89 | 30 | -11.11 |
| | | | | 1 | 74 | 19.71 | 18.91 | 30 | -11.09 |
| | | | | 36 | 18 | 18.69 | 17.89 | 30 | -12.11 |
| | | | | 75 | 0 | 18.62 | 17.82 | 30 | -12.18 |
| 15 | 20025 | 1717.5 | 64QAM | 1 | 0 | 21.82 | 21.02 | 30 | -8.98 |
| | | | | 1 | 74 | 21.83 | 21.03 | 30 | -8.97 |
| | | | | 36 | 18 | 20.67 | 19.87 | 30 | -10.13 |
| | | | | 75 | 0 | 20.67 | 19.87 | 30 | -10.13 |
| | 20175 | 1732.5 | 64QAM | 1 | 0 | 20.70 | 19.90 | 30 | -10.1 |
| | | | | 1 | 74 | 20.67 | 19.87 | 30 | -10.13 |
| | | | | 36 | 18 | 19.67 | 18.87 | 30 | -11.13 |
| | | | | 75 | 0 | 19.64 | 18.84 | 30 | -11.16 |
| | 20325 | 1747.5 | 64QAM | 1 | 0 | 19.66 | 18.86 | 30 | -11.14 |
| | | | | 1 | 74 | 19.70 | 18.90 | 30 | -11.1 |
| | | | | 36 | 18 | 18.65 | 17.85 | 30 | -12.15 |
| | | | | 75 | 0 | 18.67 | 17.87 | 30 | -12.13 |

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| Antenna gain (dBi) | | -0.8 | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 4_Uplink frequency band : 1710 to 1755 MHz | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20 | 20050 | 1720 | QPSK | 1 | 0 | 21.91 | 21.11 | 30 | -8.89 |
| | | | | 1 | 99 | 21.89 | 21.09 | 30 | -8.91 |
| | | | | 50 | 25 | 20.71 | 19.91 | 30 | -10.09 |
| | | | | 100 | 0 | 20.68 | 19.88 | 30 | -10.12 |
| | 20175 | 1732.5 | QPSK | 1 | 0 | 20.63 | 19.83 | 30 | -10.17 |
| | | | | 1 | 99 | 20.63 | 19.83 | 30 | -10.17 |
| | | | | 50 | 25 | 19.67 | 18.87 | 30 | -11.13 |
| | | | | 100 | 0 | 19.61 | 18.81 | 30 | -11.19 |
| | 20300 | 1745 | QPSK | 1 | 0 | 19.67 | 18.87 | 30 | -11.13 |
| | | | | 1 | 99 | 19.71 | 18.91 | 30 | -11.09 |
| | | | | 50 | 25 | 18.66 | 17.86 | 30 | -12.14 |
| | | | | 100 | 0 | 18.62 | 17.82 | 30 | -12.18 |
| 20 | 20050 | 1720 | 16QAM | 1 | 0 | 21.89 | 21.09 | 30 | -8.91 |
| | | | | 1 | 99 | 21.88 | 21.08 | 30 | -8.92 |
| | | | | 50 | 25 | 20.64 | 19.84 | 30 | -10.16 |
| | | | | 100 | 0 | 20.66 | 19.86 | 30 | -10.14 |
| | 20175 | 1732.5 | 16QAM | 1 | 0 | 20.64 | 19.84 | 30 | -10.16 |
| | | | | 1 | 99 | 20.65 | 19.85 | 30 | -10.15 |
| | | | | 50 | 25 | 19.69 | 18.89 | 30 | -11.11 |
| | | | | 100 | 0 | 19.67 | 18.87 | 30 | -11.13 |
| | 20300 | 1745 | 16QAM | 1 | 0 | 19.61 | 18.81 | 30 | -11.19 |
| | | | | 1 | 99 | 19.71 | 18.91 | 30 | -11.09 |
| | | | | 50 | 25 | 18.70 | 17.90 | 30 | -12.1 |
| | | | | 100 | 0 | 18.64 | 17.84 | 30 | -12.16 |
| 20 | 20050 | 1720 | 64QAM | 1 | 0 | 21.95 | 21.15 | 30 | -8.85 |
| | | | | 1 | 99 | 21.86 | 21.06 | 30 | -8.94 |
| | | | | 50 | 25 | 20.68 | 19.88 | 30 | -10.12 |
| | | | | 100 | 0 | 20.66 | 19.86 | 30 | -10.14 |
| | 20175 | 1732.5 | 64QAM | 1 | 0 | 20.66 | 19.86 | 30 | -10.14 |
| | | | | 1 | 99 | 20.62 | 19.82 | 30 | -10.18 |
| | | | | 50 | 25 | 19.71 | 18.91 | 30 | -11.09 |
| | | | | 100 | 0 | 19.71 | 18.91 | 30 | -11.09 |
| | 20300 | 1745 | 64QAM | 1 | 0 | 19.67 | 18.87 | 30 | -11.13 |
| | | | | 1 | 99 | 19.62 | 18.82 | 30 | -11.18 |
| | | | | 50 | 25 | 18.69 | 17.89 | 30 | -12.11 |
| | | | | 100 | 0 | 18.63 | 17.83 | 30 | -12.17 |

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| Antenna gain (dBi) | | 0.3 | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 5_Uplink 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) | ERP Limit (dBm) | Margin (dB) |
| 1.4 | 20407 | 824.7 | QPSK | 1 | 0 | 22.81 | 20.96 | 23.11 | 38.45 | -17.49 |
| | | | | 1 | 5 | 22.78 | 20.93 | 23.08 | 38.45 | -17.52 |
| | | | | 3 | 2 | 22.88 | 21.03 | 23.18 | 38.45 | -17.42 |
| | | | | 6 | 0 | 21.65 | 19.80 | 21.95 | 38.45 | -18.65 |
| | 20525 | 836.5 | QPSK | 1 | 0 | 21.72 | 19.87 | 22.02 | 38.45 | -18.58 |
| | | | | 1 | 5 | 21.82 | 19.97 | 22.12 | 38.45 | -18.48 |
| | | | | 3 | 2 | 21.87 | 20.02 | 22.17 | 38.45 | -18.43 |
| | | | | 6 | 0 | 20.85 | 19.00 | 21.15 | 38.45 | -19.45 |
| | 20643 | 848.3 | QPSK | 1 | 0 | 20.66 | 18.81 | 20.96 | 38.45 | -19.64 |
| | | | | 1 | 5 | 20.80 | 18.95 | 21.10 | 38.45 | -19.50 |
| | | | | 3 | 2 | 20.85 | 19.00 | 21.15 | 38.45 | -19.45 |
| | | | | 6 | 0 | 19.86 | 18.01 | 20.16 | 38.45 | -20.44 |
| 1.4 | 20407 | 824.7 | 16QAM | 1 | 0 | 22.82 | 20.97 | 23.12 | 38.45 | -17.48 |
| | | | | 1 | 5 | 22.71 | 20.86 | 23.01 | 38.45 | -17.59 |
| | | | | 3 | 2 | 22.80 | 20.95 | 23.10 | 38.45 | -17.50 |
| | | | | 6 | 0 | 21.63 | 19.78 | 21.93 | 38.45 | -18.67 |
| | 20525 | 836.5 | 16QAM | 1 | 0 | 21.87 | 20.02 | 22.17 | 38.45 | -18.43 |
| | | | | 1 | 5 | 21.85 | 20.00 | 22.15 | 38.45 | -18.45 |
| | | | | 3 | 2 | 21.79 | 19.94 | 22.09 | 38.45 | -18.51 |
| | | | | 6 | 0 | 20.72 | 18.87 | 21.02 | 38.45 | -19.58 |
| | 20643 | 848.3 | 16QAM | 1 | 0 | 20.62 | 18.77 | 20.92 | 38.45 | -19.68 |
| | | | | 1 | 5 | 20.63 | 18.78 | 20.93 | 38.45 | -19.67 |
| | | | | 3 | 2 | 20.88 | 19.03 | 21.18 | 38.45 | -19.42 |
| | | | | 6 | 0 | 19.74 | 17.89 | 20.04 | 38.45 | -20.56 |
| 1.4 | 20407 | 824.7 | 64QAM | 1 | 0 | 22.86 | 21.01 | 23.16 | 38.45 | -17.44 |
| | | | | 1 | 5 | 22.88 | 21.03 | 23.18 | 38.45 | -17.42 |
| | | | | 3 | 2 | 22.75 | 20.90 | 23.05 | 38.45 | -17.55 |
| | | | | 6 | 0 | 21.75 | 19.90 | 22.05 | 38.45 | -18.55 |
| | 20525 | 836.5 | 64QAM | 1 | 0 | 21.67 | 19.82 | 21.97 | 38.45 | -18.63 |
| | | | | 1 | 5 | 21.80 | 19.95 | 22.10 | 38.45 | -18.50 |
| | | | | 3 | 2 | 21.68 | 19.83 | 21.98 | 38.45 | -18.62 |
| | | | | 6 | 0 | 20.68 | 18.83 | 20.98 | 38.45 | -19.62 |
| | 20643 | 848.3 | 64QAM | 1 | 0 | 20.70 | 18.85 | 21.00 | 38.45 | -19.60 |
| | | | | 1 | 5 | 20.67 | 18.82 | 20.97 | 38.45 | -19.63 |
| | | | | 3 | 2 | 20.84 | 18.99 | 21.14 | 38.45 | -19.46 |
| | | | | 6 | 0 | 19.75 | 17.90 | 20.05 | 38.45 | -20.55 |

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| Antenna gain (dBi) | | 0.3 | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 5_Uplink 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) | ERP Limit (dBm) | Margin (dB) |
| 3 | 20415 | 825.5 | QPSK | 1 | 0 | 22.61 | 20.76 | 22.91 | 38.45 | -17.69 |
| | | | | 1 | 14 | 22.67 | 20.82 | 22.97 | 38.45 | -17.63 |
| | | | | 8 | 4 | 21.63 | 19.78 | 21.93 | 38.45 | -18.67 |
| | | | | 15 | 0 | 21.70 | 19.85 | 22.00 | 38.45 | -18.60 |
| | 20525 | 836.5 | QPSK | 1 | 0 | 21.79 | 19.94 | 22.09 | 38.45 | -18.51 |
| | | | | 1 | 14 | 21.81 | 19.96 | 22.11 | 38.45 | -18.49 |
| | | | | 8 | 4 | 20.63 | 18.78 | 20.93 | 38.45 | -19.67 |
| | | | | 15 | 0 | 20.87 | 19.02 | 21.17 | 38.45 | -19.43 |
| | 20635 | 847.5 | QPSK | 1 | 0 | 20.66 | 18.81 | 20.96 | 38.45 | -19.64 |
| | | | | 1 | 14 | 20.85 | 19.00 | 21.15 | 38.45 | -19.45 |
| | | | | 8 | 4 | 19.86 | 18.01 | 20.16 | 38.45 | -20.44 |
| | | | | 15 | 0 | 19.66 | 17.81 | 19.96 | 38.45 | -20.64 |
| 3 | 20415 | 825.5 | 16QAM | 1 | 0 | 22.66 | 20.81 | 22.96 | 38.45 | -17.64 |
| | | | | 1 | 14 | 22.78 | 20.93 | 23.08 | 38.45 | -17.52 |
| | | | | 8 | 4 | 21.78 | 19.93 | 22.08 | 38.45 | -18.52 |
| | | | | 15 | 0 | 21.70 | 19.85 | 22.00 | 38.45 | -18.60 |
| | 20525 | 836.5 | 16QAM | 1 | 0 | 21.83 | 19.98 | 22.13 | 38.45 | -18.47 |
| | | | | 1 | 14 | 21.77 | 19.92 | 22.07 | 38.45 | -18.53 |
| | | | | 8 | 4 | 20.71 | 18.86 | 21.01 | 38.45 | -19.59 |
| | | | | 15 | 0 | 20.88 | 19.03 | 21.18 | 38.45 | -19.42 |
| | 20635 | 847.5 | 16QAM | 1 | 0 | 20.67 | 18.82 | 20.97 | 38.45 | -19.63 |
| | | | | 1 | 14 | 20.64 | 18.79 | 20.94 | 38.45 | -19.66 |
| | | | | 8 | 4 | 19.74 | 17.89 | 20.04 | 38.45 | -20.56 |
| | | | | 15 | 0 | 19.64 | 17.79 | 19.94 | 38.45 | -20.66 |
| 3 | 20415 | 825.5 | 64QAM | 1 | 0 | 22.70 | 20.85 | 23.00 | 38.45 | -17.60 |
| | | | | 1 | 14 | 22.72 | 20.87 | 23.02 | 38.45 | -17.58 |
| | | | | 8 | 4 | 21.64 | 19.79 | 21.94 | 38.45 | -18.66 |
| | | | | 15 | 0 | 21.65 | 19.80 | 21.95 | 38.45 | -18.65 |
| | 20525 | 836.5 | 64QAM | 1 | 0 | 21.63 | 19.78 | 21.93 | 38.45 | -18.67 |
| | | | | 1 | 14 | 21.74 | 19.89 | 22.04 | 38.45 | -18.56 |
| | | | | 8 | 4 | 20.71 | 18.86 | 21.01 | 38.45 | -19.59 |
| | | | | 15 | 0 | 20.82 | 18.97 | 21.12 | 38.45 | -19.48 |
| | 20635 | 847.5 | 64QAM | 1 | 0 | 20.72 | 18.87 | 21.02 | 38.45 | -19.58 |
| | | | | 1 | 14 | 20.82 | 18.97 | 21.12 | 38.45 | -19.48 |
| | | | | 8 | 4 | 19.68 | 17.83 | 19.98 | 38.45 | -20.62 |
| | | | | 15 | 0 | 19.81 | 17.96 | 20.11 | 38.45 | -20.49 |

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| Antenna gain (dBi) | | 0.3 | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 5_Uplink 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) | ERP Limit (dBm) | Margin (dB) |
| 5 | 20425 | 826.5 | QPSK | 1 | 0 | 22.78 | 20.93 | 23.08 | 38.45 | -17.52 |
| | | | | 1 | 24 | 22.62 | 20.77 | 22.92 | 38.45 | -17.68 |
| | | | | 12 | 6 | 21.83 | 19.98 | 22.13 | 38.45 | -18.47 |
| | | | | 25 | 0 | 21.64 | 19.79 | 21.94 | 38.45 | -18.66 |
| | 20525 | 836.5 | QPSK | 1 | 0 | 21.60 | 19.75 | 21.90 | 38.45 | -18.70 |
| | | | | 1 | 24 | 21.78 | 19.93 | 22.08 | 38.45 | -18.52 |
| | | | | 12 | 6 | 20.90 | 19.05 | 21.20 | 38.45 | -19.40 |
| | | | | 25 | 0 | 20.90 | 19.05 | 21.20 | 38.45 | -19.40 |
| | 20625 | 846.5 | QPSK | 1 | 0 | 20.68 | 18.83 | 20.98 | 38.45 | -19.62 |
| | | | | 1 | 24 | 20.64 | 18.79 | 20.94 | 38.45 | -19.66 |
| | | | | 12 | 6 | 19.67 | 17.82 | 19.97 | 38.45 | -20.63 |
| | | | | 25 | 0 | 19.84 | 17.99 | 20.14 | 38.45 | -20.46 |
| 5 | 20425 | 826.5 | 16QAM | 1 | 0 | 22.62 | 20.77 | 22.92 | 38.45 | -17.68 |
| | | | | 1 | 24 | 22.66 | 20.81 | 22.96 | 38.45 | -17.64 |
| | | | | 12 | 6 | 21.82 | 19.97 | 22.12 | 38.45 | -18.48 |
| | | | | 25 | 0 | 21.64 | 19.79 | 21.94 | 38.45 | -18.66 |
| | 20525 | 836.5 | 16QAM | 1 | 0 | 21.79 | 19.94 | 22.09 | 38.45 | -18.51 |
| | | | | 1 | 24 | 21.79 | 19.94 | 22.09 | 38.45 | -18.51 |
| | | | | 12 | 6 | 20.82 | 18.97 | 21.12 | 38.45 | -19.48 |
| | | | | 25 | 0 | 20.72 | 18.87 | 21.02 | 38.45 | -19.58 |
| | 20625 | 846.5 | 16QAM | 1 | 0 | 20.68 | 18.83 | 20.98 | 38.45 | -19.62 |
| | | | | 1 | 24 | 20.74 | 18.89 | 21.04 | 38.45 | -19.56 |
| | | | | 12 | 6 | 19.84 | 17.99 | 20.14 | 38.45 | -20.46 |
| | | | | 25 | 0 | 19.81 | 17.96 | 20.11 | 38.45 | -20.49 |
| 5 | 20425 | 826.5 | 64QAM | 1 | 0 | 22.78 | 20.93 | 23.08 | 38.45 | -17.52 |
| | | | | 1 | 24 | 22.82 | 20.97 | 23.12 | 38.45 | -17.48 |
| | | | | 12 | 6 | 21.76 | 19.91 | 22.06 | 38.45 | -18.54 |
| | | | | 25 | 0 | 21.88 | 20.03 | 22.18 | 38.45 | -18.42 |
| | 20525 | 836.5 | 64QAM | 1 | 0 | 21.86 | 20.01 | 22.16 | 38.45 | -18.44 |
| | | | | 1 | 24 | 21.63 | 19.78 | 21.93 | 38.45 | -18.67 |
| | | | | 12 | 6 | 20.82 | 18.97 | 21.12 | 38.45 | -19.48 |
| | | | | 25 | 0 | 20.62 | 18.77 | 20.92 | 38.45 | -19.68 |
| | 20625 | 846.5 | 64QAM | 1 | 0 | 20.80 | 18.95 | 21.10 | 38.45 | -19.50 |
| | | | | 1 | 24 | 20.87 | 19.02 | 21.17 | 38.45 | -19.43 |
| | | | | 12 | 6 | 19.67 | 17.82 | 19.97 | 38.45 | -20.63 |
| | | | | 25 | 0 | 19.65 | 17.80 | 19.95 | 38.45 | -20.65 |

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| Antenna gain (dBi) | | 0.3 | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 5_Uplink 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) | ERP Limit (dBm) | Margin (dB) |
| 10 | 20450 | 829 | QPSK | 1 | 0 | 22.99 | 21.14 | 23.29 | 38.45 | -17.31 |
| | | | | 1 | 49 | 22.89 | 21.04 | 23.19 | 38.45 | -17.41 |
| | | | | 25 | 12 | 21.91 | 20.06 | 22.21 | 38.45 | -18.39 |
| | | | | 50 | 0 | 21.99 | 20.14 | 22.29 | 38.45 | -18.31 |
| | 20525 | 836.5 | QPSK | 1 | 0 | 21.78 | 19.93 | 22.08 | 38.45 | -18.52 |
| | | | | 1 | 49 | 21.64 | 19.79 | 21.94 | 38.45 | -18.66 |
| | | | | 25 | 12 | 20.82 | 18.97 | 21.12 | 38.45 | -19.48 |
| | | | | 50 | 0 | 20.89 | 19.04 | 21.19 | 38.45 | -19.41 |
| | 20600 | 844 | QPSK | 1 | 0 | 20.79 | 18.94 | 21.09 | 38.45 | -19.51 |
| | | | | 1 | 49 | 20.62 | 18.77 | 20.92 | 38.45 | -19.68 |
| | | | | 25 | 12 | 19.70 | 17.85 | 20.00 | 38.45 | -20.60 |
| | | | | 50 | 0 | 19.72 | 17.87 | 20.02 | 38.45 | -20.58 |
| 10 | 20450 | 829 | 16QAM | 1 | 0 | 22.95 | 21.10 | 23.25 | 38.45 | -17.35 |
| | | | | 1 | 49 | 22.85 | 21.00 | 23.15 | 38.45 | -17.45 |
| | | | | 25 | 12 | 21.86 | 20.01 | 22.16 | 38.45 | -18.44 |
| | | | | 50 | 0 | 21.91 | 20.06 | 22.21 | 38.45 | -18.39 |
| | 20525 | 836.5 | 16QAM | 1 | 0 | 21.70 | 19.85 | 22.00 | 38.45 | -18.60 |
| | | | | 1 | 49 | 21.65 | 19.80 | 21.95 | 38.45 | -18.65 |
| | | | | 25 | 12 | 20.67 | 18.82 | 20.97 | 38.45 | -19.63 |
| | | | | 50 | 0 | 20.85 | 19.00 | 21.15 | 38.45 | -19.45 |
| | 20600 | 844 | 16QAM | 1 | 0 | 20.77 | 18.92 | 21.07 | 38.45 | -19.53 |
| | | | | 1 | 49 | 20.72 | 18.87 | 21.02 | 38.45 | -19.58 |
| | | | | 25 | 12 | 19.64 | 17.79 | 19.94 | 38.45 | -20.66 |
| | | | | 50 | 0 | 19.72 | 17.87 | 20.02 | 38.45 | -20.58 |
| 10 | 20450 | 829 | 64QAM | 1 | 0 | 22.91 | 21.06 | 23.21 | 38.45 | -17.39 |
| | | | | 1 | 49 | 22.71 | 20.86 | 23.01 | 38.45 | -17.59 |
| | | | | 25 | 12 | 21.76 | 19.91 | 22.06 | 38.45 | -18.54 |
| | | | | 50 | 0 | 21.74 | 19.89 | 22.04 | 38.45 | -18.56 |
| | 20525 | 836.5 | 64QAM | 1 | 0 | 21.72 | 19.87 | 22.02 | 38.45 | -18.58 |
| | | | | 1 | 49 | 21.85 | 20.00 | 22.15 | 38.45 | -18.45 |
| | | | | 25 | 12 | 20.72 | 18.87 | 21.02 | 38.45 | -19.58 |
| | | | | 50 | 0 | 20.79 | 18.94 | 21.09 | 38.45 | -19.51 |
| | 20600 | 844 | 64QAM | 1 | 0 | 20.65 | 18.80 | 20.95 | 38.45 | -19.65 |
| | | | | 1 | 49 | 20.67 | 18.82 | 20.97 | 38.45 | -19.63 |
| | | | | 25 | 12 | 19.74 | 17.89 | 20.04 | 38.45 | -20.56 |
| | | | | 50 | 0 | 19.66 | 17.81 | 19.96 | 38.45 | -20.64 |

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| Antenna gain (dBi) | | -1.1 | | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 12_Uplink frequency band : 699 to 716 MHz | | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 1.4 | 23017 | 699.7 | QPSK | 1 | 0 | 22.44 | 19.19 | 21.34 | 34.77 | -15.58 |
| | | | | 1 | 5 | 22.56 | 19.31 | 21.46 | 34.77 | -15.46 |
| | | | | 3 | 2 | 22.40 | 19.15 | 21.30 | 34.77 | -15.62 |
| | | | | 6 | 0 | 21.47 | 18.22 | 20.37 | 34.77 | -16.55 |
| | 23095 | 707.5 | QPSK | 1 | 0 | 21.59 | 18.34 | 20.49 | 34.77 | -16.43 |
| | | | | 1 | 5 | 21.48 | 18.23 | 20.38 | 34.77 | -16.54 |
| | | | | 3 | 2 | 21.44 | 18.19 | 20.34 | 34.77 | -16.58 |
| | | | | 6 | 0 | 20.45 | 17.20 | 19.35 | 34.77 | -17.57 |
| | 23173 | 715.5 | QPSK | 1 | 0 | 20.55 | 17.30 | 19.45 | 34.77 | -17.47 |
| | | | | 1 | 5 | 20.56 | 17.31 | 19.46 | 34.77 | -17.46 |
| | | | | 3 | 2 | 20.45 | 17.20 | 19.35 | 34.77 | -17.57 |
| | | | | 6 | 0 | 19.50 | 16.25 | 18.40 | 34.77 | -18.52 |
| 1.4 | 23017 | 699.7 | 16QAM | 1 | 0 | 22.54 | 19.29 | 21.44 | 34.77 | -15.48 |
| | | | | 1 | 5 | 22.55 | 19.30 | 21.45 | 34.77 | -15.47 |
| | | | | 3 | 2 | 22.60 | 19.35 | 21.50 | 34.77 | -15.42 |
| | | | | 6 | 0 | 21.59 | 18.34 | 20.49 | 34.77 | -16.43 |
| | 23095 | 707.5 | 16QAM | 1 | 0 | 21.51 | 18.26 | 20.41 | 34.77 | -16.51 |
| | | | | 1 | 5 | 21.43 | 18.18 | 20.33 | 34.77 | -16.59 |
| | | | | 3 | 2 | 21.45 | 18.20 | 20.35 | 34.77 | -16.57 |
| | | | | 6 | 0 | 20.43 | 17.18 | 19.33 | 34.77 | -17.59 |
| | 23173 | 715.5 | 16QAM | 1 | 0 | 20.47 | 17.22 | 19.37 | 34.77 | -17.55 |
| | | | | 1 | 5 | 20.48 | 17.23 | 19.38 | 34.77 | -17.54 |
| | | | | 3 | 2 | 20.58 | 17.33 | 19.48 | 34.77 | -17.44 |
| | | | | 6 | 0 | 19.45 | 16.20 | 18.35 | 34.77 | -18.57 |
| 1.4 | 23017 | 699.7 | 64QAM | 1 | 0 | 22.43 | 19.18 | 21.33 | 34.77 | -15.59 |
| | | | | 1 | 5 | 22.52 | 19.27 | 21.42 | 34.77 | -15.50 |
| | | | | 3 | 2 | 22.56 | 19.31 | 21.46 | 34.77 | -15.46 |
| | | | | 6 | 0 | 21.56 | 18.31 | 20.46 | 34.77 | -16.46 |
| | 23095 | 707.5 | 64QAM | 1 | 0 | 21.56 | 18.31 | 20.46 | 34.77 | -16.46 |
| | | | | 1 | 5 | 21.49 | 18.24 | 20.39 | 34.77 | -16.53 |
| | | | | 3 | 2 | 21.56 | 18.31 | 20.46 | 34.77 | -16.46 |
| | | | | 6 | 0 | 20.56 | 17.31 | 19.46 | 34.77 | -17.46 |
| | 23173 | 715.5 | 64QAM | 1 | 0 | 20.49 | 17.24 | 19.39 | 34.77 | -17.53 |
| | | | | 1 | 5 | 20.47 | 17.22 | 19.37 | 34.77 | -17.55 |
| | | | | 3 | 2 | 20.49 | 17.24 | 19.39 | 34.77 | -17.53 |
| | | | | 6 | 0 | 19.50 | 16.25 | 18.40 | 34.77 | -18.52 |

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| Antenna gain (dBi) | | -1.1 | | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 12_Uplink frequency band : 699 to 716 MHz | | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 3 | 23025 | 700.5 | QPSK | 1 | 0 | 22.48 | 19.23 | 21.38 | 34.77 | -15.54 |
| | | | | 1 | 14 | 22.57 | 19.32 | 21.47 | 34.77 | -15.45 |
| | | | | 8 | 4 | 21.43 | 18.18 | 20.33 | 34.77 | -16.59 |
| | | | | 15 | 0 | 21.50 | 18.25 | 20.40 | 34.77 | -16.52 |
| | 23095 | 707.5 | QPSK | 1 | 0 | 21.54 | 18.29 | 20.44 | 34.77 | -16.48 |
| | | | | 1 | 14 | 21.48 | 18.23 | 20.38 | 34.77 | -16.54 |
| | | | | 8 | 4 | 20.52 | 17.27 | 19.42 | 34.77 | -17.50 |
| | | | | 15 | 0 | 20.41 | 17.16 | 19.31 | 34.77 | -17.61 |
| | 23165 | 714.5 | QPSK | 1 | 0 | 20.58 | 17.33 | 19.48 | 34.77 | -17.44 |
| | | | | 1 | 14 | 20.59 | 17.34 | 19.49 | 34.77 | -17.43 |
| | | | | 8 | 4 | 19.43 | 16.18 | 18.33 | 34.77 | -18.59 |
| | | | | 15 | 0 | 19.40 | 16.15 | 18.30 | 34.77 | -18.62 |
| 3 | 23025 | 700.5 | 16QAM | 1 | 0 | 22.55 | 19.30 | 21.45 | 34.77 | -15.47 |
| | | | | 1 | 14 | 22.40 | 19.15 | 21.30 | 34.77 | -15.62 |
| | | | | 8 | 4 | 21.56 | 18.31 | 20.46 | 34.77 | -16.46 |
| | | | | 15 | 0 | 21.53 | 18.28 | 20.43 | 34.77 | -16.49 |
| | 23095 | 707.5 | 16QAM | 1 | 0 | 21.44 | 18.19 | 20.34 | 34.77 | -16.58 |
| | | | | 1 | 14 | 21.59 | 18.34 | 20.49 | 34.77 | -16.43 |
| | | | | 8 | 4 | 20.42 | 17.17 | 19.32 | 34.77 | -17.60 |
| | | | | 15 | 0 | 20.58 | 17.33 | 19.48 | 34.77 | -17.44 |
| | 23165 | 714.5 | 16QAM | 1 | 0 | 20.47 | 17.22 | 19.37 | 34.77 | -17.55 |
| | | | | 1 | 14 | 20.54 | 17.29 | 19.44 | 34.77 | -17.48 |
| | | | | 8 | 4 | 19.57 | 16.32 | 18.47 | 34.77 | -18.45 |
| | | | | 15 | 0 | 19.55 | 16.30 | 18.45 | 34.77 | -18.47 |
| 3 | 23025 | 700.5 | 64QAM | 1 | 0 | 22.60 | 19.35 | 21.50 | 34.77 | -15.42 |
| | | | | 1 | 14 | 22.56 | 19.31 | 21.46 | 34.77 | -15.46 |
| | | | | 8 | 4 | 21.49 | 18.24 | 20.39 | 34.77 | -16.53 |
| | | | | 15 | 0 | 21.48 | 18.23 | 20.38 | 34.77 | -16.54 |
| | 23095 | 707.5 | 64QAM | 1 | 0 | 21.44 | 18.19 | 20.34 | 34.77 | -16.58 |
| | | | | 1 | 14 | 21.59 | 18.34 | 20.49 | 34.77 | -16.43 |
| | | | | 8 | 4 | 20.49 | 17.24 | 19.39 | 34.77 | -17.53 |
| | | | | 15 | 0 | 20.55 | 17.30 | 19.45 | 34.77 | -17.47 |
| | 23165 | 714.5 | 64QAM | 1 | 0 | 20.44 | 17.19 | 19.34 | 34.77 | -17.58 |
| | | | | 1 | 14 | 20.56 | 17.31 | 19.46 | 34.77 | -17.46 |
| | | | | 8 | 4 | 19.45 | 16.20 | 18.35 | 34.77 | -18.57 |
| | | | | 15 | 0 | 19.58 | 16.33 | 18.48 | 34.77 | -18.44 |

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| Antenna gain (dBi) | | -1.1 | | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 12_Uplink frequency band : 699 to 716 MHz | | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 5 | 23035 | 701.5 | QPSK | 1 | 0 | 22.60 | 19.35 | 21.50 | 34.77 | -15.42 |
| | | | | 1 | 24 | 22.50 | 19.25 | 21.40 | 34.77 | -15.52 |
| | | | | 12 | 6 | 21.55 | 18.30 | 20.45 | 34.77 | -16.47 |
| | | | | 25 | 0 | 21.45 | 18.20 | 20.35 | 34.77 | -16.57 |
| | 23095 | 707.5 | QPSK | 1 | 0 | 21.44 | 18.19 | 20.34 | 34.77 | -16.58 |
| | | | | 1 | 24 | 21.54 | 18.29 | 20.44 | 34.77 | -16.48 |
| | | | | 12 | 6 | 20.52 | 17.27 | 19.42 | 34.77 | -17.50 |
| | | | | 25 | 0 | 20.49 | 17.24 | 19.39 | 34.77 | -17.53 |
| | 23155 | 713.5 | QPSK | 1 | 0 | 20.45 | 17.20 | 19.35 | 34.77 | -17.57 |
| | | | | 1 | 24 | 20.54 | 17.29 | 19.44 | 34.77 | -17.48 |
| | | | | 12 | 6 | 19.50 | 16.25 | 18.40 | 34.77 | -18.52 |
| | | | | 25 | 0 | 19.49 | 16.24 | 18.39 | 34.77 | -18.53 |
| 5 | 23035 | 701.5 | 16QAM | 1 | 0 | 22.57 | 19.32 | 21.47 | 34.77 | -15.45 |
| | | | | 1 | 24 | 22.59 | 19.34 | 21.49 | 34.77 | -15.43 |
| | | | | 12 | 6 | 21.51 | 18.26 | 20.41 | 34.77 | -16.51 |
| | | | | 25 | 0 | 21.45 | 18.20 | 20.35 | 34.77 | -16.57 |
| | 23095 | 707.5 | 16QAM | 1 | 0 | 21.50 | 18.25 | 20.40 | 34.77 | -16.52 |
| | | | | 1 | 24 | 21.58 | 18.33 | 20.48 | 34.77 | -16.44 |
| | | | | 12 | 6 | 20.46 | 17.21 | 19.36 | 34.77 | -17.56 |
| | | | | 25 | 0 | 20.56 | 17.31 | 19.46 | 34.77 | -17.46 |
| | 23155 | 713.5 | 16QAM | 1 | 0 | 20.49 | 17.24 | 19.39 | 34.77 | -17.53 |
| | | | | 1 | 24 | 20.55 | 17.30 | 19.45 | 34.77 | -17.47 |
| | | | | 12 | 6 | 19.42 | 16.17 | 18.32 | 34.77 | -18.60 |
| | | | | 25 | 0 | 19.54 | 16.29 | 18.44 | 34.77 | -18.48 |
| 5 | 23035 | 701.5 | 64QAM | 1 | 0 | 22.50 | 19.25 | 21.40 | 34.77 | -15.52 |
| | | | | 1 | 24 | 22.52 | 19.27 | 21.42 | 34.77 | -15.50 |
| | | | | 12 | 6 | 21.57 | 18.32 | 20.47 | 34.77 | -16.45 |
| | | | | 25 | 0 | 21.56 | 18.31 | 20.46 | 34.77 | -16.46 |
| | 23095 | 707.5 | 64QAM | 1 | 0 | 21.55 | 18.30 | 20.45 | 34.77 | -16.47 |
| | | | | 1 | 24 | 21.51 | 18.26 | 20.41 | 34.77 | -16.51 |
| | | | | 12 | 6 | 20.46 | 17.21 | 19.36 | 34.77 | -17.56 |
| | | | | 25 | 0 | 20.51 | 17.26 | 19.41 | 34.77 | -17.51 |
| | 23155 | 713.5 | 64QAM | 1 | 0 | 20.53 | 17.28 | 19.43 | 34.77 | -17.49 |
| | | | | 1 | 24 | 20.55 | 17.30 | 19.45 | 34.77 | -17.47 |
| | | | | 12 | 6 | 19.42 | 16.17 | 18.32 | 34.77 | -18.60 |
| | | | | 25 | 0 | 19.59 | 16.34 | 18.49 | 34.77 | -18.43 |

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| Antenna gain (dBi) | | -1.1 | | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 12_Uplink frequency band : 699 to 716 MHz | | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10 | 23060 | 704 | QPSK | 1 | 0 | 22.63 | 19.38 | 21.53 | 34.77 | -15.39 |
| | | | | 1 | 49 | 22.57 | 19.32 | 21.47 | 34.77 | -15.45 |
| | | | | 25 | 12 | 21.48 | 18.23 | 20.38 | 34.77 | -16.54 |
| | | | | 50 | 0 | 21.59 | 18.34 | 20.49 | 34.77 | -16.43 |
| | 23095 | 707.5 | QPSK | 1 | 0 | 21.83 | 18.58 | 20.73 | 34.77 | -16.19 |
| | | | | 1 | 49 | 21.78 | 18.53 | 20.68 | 34.77 | -16.24 |
| | | | | 25 | 12 | 20.64 | 17.39 | 19.54 | 34.77 | -17.38 |
| | | | | 50 | 0 | 20.61 | 17.36 | 19.51 | 34.77 | -17.41 |
| | 23130 | 711 | QPSK | 1 | 0 | 20.42 | 17.17 | 19.32 | 34.77 | -17.60 |
| | | | | 1 | 49 | 20.43 | 17.18 | 19.33 | 34.77 | -17.59 |
| | | | | 25 | 12 | 19.53 | 16.28 | 18.43 | 34.77 | -18.49 |
| | | | | 50 | 0 | 19.60 | 16.35 | 18.50 | 34.77 | -18.42 |
| 10 | 23060 | 704 | 16QAM | 1 | 0 | 22.72 | 19.47 | 21.62 | 34.77 | -15.30 |
| | | | | 1 | 49 | 22.61 | 19.36 | 21.51 | 34.77 | -15.41 |
| | | | | 25 | 12 | 21.50 | 18.25 | 20.40 | 34.77 | -16.52 |
| | | | | 50 | 0 | 21.66 | 18.41 | 20.56 | 34.77 | -16.36 |
| | 23095 | 707.5 | 16QAM | 1 | 0 | 21.82 | 18.57 | 20.72 | 34.77 | -16.20 |
| | | | | 1 | 49 | 21.74 | 18.49 | 20.64 | 34.77 | -16.28 |
| | | | | 25 | 12 | 20.54 | 17.29 | 19.44 | 34.77 | -17.48 |
| | | | | 50 | 0 | 20.61 | 17.36 | 19.51 | 34.77 | -17.41 |
| | 23130 | 711 | 16QAM | 1 | 0 | 20.53 | 17.28 | 19.43 | 34.77 | -17.49 |
| | | | | 1 | 49 | 20.48 | 17.23 | 19.38 | 34.77 | -17.54 |
| | | | | 25 | 12 | 19.58 | 16.33 | 18.48 | 34.77 | -18.44 |
| | | | | 50 | 0 | 19.55 | 16.30 | 18.45 | 34.77 | -18.47 |
| 10 | 23060 | 704 | 64QAM | 1 | 0 | 22.65 | 19.40 | 21.55 | 34.77 | -15.37 |
| | | | | 1 | 49 | 22.61 | 19.36 | 21.51 | 34.77 | -15.41 |
| | | | | 25 | 12 | 21.54 | 18.29 | 20.44 | 34.77 | -16.48 |
| | | | | 50 | 0 | 21.45 | 18.20 | 20.35 | 34.77 | -16.57 |
| | 23095 | 707.5 | 64QAM | 1 | 0 | 21.87 | 18.62 | 20.77 | 34.77 | -16.15 |
| | | | | 1 | 49 | 21.70 | 18.45 | 20.60 | 34.77 | -16.32 |
| | | | | 25 | 12 | 20.50 | 17.25 | 19.40 | 34.77 | -17.52 |
| | | | | 50 | 0 | 20.34 | 17.09 | 19.24 | 34.77 | -17.68 |
| | 23130 | 711 | 64QAM | 1 | 0 | 20.54 | 17.29 | 19.44 | 34.77 | -17.48 |
| | | | | 1 | 49 | 20.44 | 17.19 | 19.34 | 34.77 | -17.58 |
| | | | | 25 | 12 | 19.47 | 16.22 | 18.37 | 34.77 | -18.55 |
| | | | | 50 | 0 | 19.48 | 16.23 | 18.38 | 34.77 | -18.54 |

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| Antenna gain (dBi) | | -1.1 | | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 17_Uplink frequency band : 704 to 716 MHz | | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 5 | 23755 | 706.5 | QPSK | 1 | 0 | 22.42 | 19.17 | 21.32 | 34.77 | -15.60 |
| | | | | 1 | 24 | 22.58 | 19.33 | 21.48 | 34.77 | -15.44 |
| | | | | 12 | 6 | 21.48 | 18.23 | 20.38 | 34.77 | -16.54 |
| | | | | 25 | 0 | 21.51 | 18.26 | 20.41 | 34.77 | -16.51 |
| | 23790 | 710 | QPSK | 1 | 0 | 21.52 | 18.27 | 20.42 | 34.77 | -16.50 |
| | | | | 1 | 24 | 21.58 | 18.33 | 20.48 | 34.77 | -16.44 |
| | | | | 12 | 6 | 20.57 | 17.32 | 19.47 | 34.77 | -17.45 |
| | | | | 25 | 0 | 20.53 | 17.28 | 19.43 | 34.77 | -17.49 |
| | 23825 | 713.5 | QPSK | 1 | 0 | 20.50 | 17.25 | 19.40 | 34.77 | -17.52 |
| | | | | 1 | 24 | 20.49 | 17.24 | 19.39 | 34.77 | -17.53 |
| | | | | 12 | 6 | 19.49 | 16.24 | 18.39 | 34.77 | -18.53 |
| | | | | 25 | 0 | 19.50 | 16.25 | 18.40 | 34.77 | -18.52 |
| 5 | 23755 | 706.5 | 16QAM | 1 | 0 | 22.42 | 19.17 | 21.32 | 34.77 | -15.60 |
| | | | | 1 | 24 | 22.50 | 19.25 | 21.40 | 34.77 | -15.52 |
| | | | | 12 | 6 | 21.58 | 18.33 | 20.48 | 34.77 | -16.44 |
| | | | | 25 | 0 | 21.51 | 18.26 | 20.41 | 34.77 | -16.51 |
| | 23790 | 710 | 16QAM | 1 | 0 | 21.59 | 18.34 | 20.49 | 34.77 | -16.43 |
| | | | | 1 | 24 | 21.51 | 18.26 | 20.41 | 34.77 | -16.51 |
| | | | | 12 | 6 | 20.51 | 17.26 | 19.41 | 34.77 | -17.51 |
| | | | | 25 | 0 | 20.59 | 17.34 | 19.49 | 34.77 | -17.43 |
| | 23825 | 713.5 | 16QAM | 1 | 0 | 20.45 | 17.20 | 19.35 | 34.77 | -17.57 |
| | | | | 1 | 24 | 20.45 | 17.20 | 19.35 | 34.77 | -17.57 |
| | | | | 12 | 6 | 19.53 | 16.28 | 18.43 | 34.77 | -18.49 |
| | | | | 25 | 0 | 19.47 | 16.22 | 18.37 | 34.77 | -18.55 |
| 5 | 23755 | 706.5 | 64QAM | 1 | 0 | 22.47 | 19.22 | 21.37 | 34.77 | -15.55 |
| | | | | 1 | 24 | 22.53 | 19.28 | 21.43 | 34.77 | -15.49 |
| | | | | 12 | 6 | 21.49 | 18.24 | 20.39 | 34.77 | -16.53 |
| | | | | 25 | 0 | 21.50 | 18.25 | 20.40 | 34.77 | -16.52 |
| | 23790 | 710 | 64QAM | 1 | 0 | 21.55 | 18.30 | 20.45 | 34.77 | -16.47 |
| | | | | 1 | 24 | 21.60 | 18.35 | 20.50 | 34.77 | -16.42 |
| | | | | 12 | 6 | 20.48 | 17.23 | 19.38 | 34.77 | -17.54 |
| | | | | 25 | 0 | 20.44 | 17.19 | 19.34 | 34.77 | -17.58 |
| | 23825 | 713.5 | 64QAM | 1 | 0 | 20.53 | 17.28 | 19.43 | 34.77 | -17.49 |
| | | | | 1 | 24 | 20.49 | 17.24 | 19.39 | 34.77 | -17.53 |
| | | | | 12 | 6 | 19.53 | 16.28 | 18.43 | 34.77 | -18.49 |
| | | | | 25 | 0 | 19.46 | 16.21 | 18.36 | 34.77 | -18.56 |

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| Antenna gain (dBi) | | -1.1 | | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 17_Uplink frequency band : 704 to 716 MHz | | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10 | 23780 | 709 | QPSK | 1 | 0 | 22.63 | 19.38 | 21.53 | 34.77 | -15.39 |
| | | | | 1 | 49 | 22.62 | 19.37 | 21.52 | 34.77 | -15.40 |
| | | | | 25 | 12 | 21.36 | 18.11 | 20.26 | 34.77 | -16.66 |
| | | | | 50 | 0 | 21.62 | 18.37 | 20.52 | 34.77 | -16.40 |
| | 23790 | 710 | QPSK | 1 | 0 | 21.75 | 18.50 | 20.65 | 34.77 | -16.27 |
| | | | | 1 | 49 | 21.97 | 18.72 | 20.87 | 34.77 | -16.05 |
| | | | | 25 | 12 | 20.63 | 17.38 | 19.53 | 34.77 | -17.39 |
| | | | | 50 | 0 | 20.63 | 17.38 | 19.53 | 34.77 | -17.39 |
| | 23800 | 711 | QPSK | 1 | 0 | 20.52 | 17.27 | 19.42 | 34.77 | -17.50 |
| | | | | 1 | 49 | 20.53 | 17.28 | 19.43 | 34.77 | -17.49 |
| | | | | 25 | 12 | 19.53 | 16.28 | 18.43 | 34.77 | -18.49 |
| | | | | 50 | 0 | 19.49 | 16.24 | 18.39 | 34.77 | -18.53 |
| 10 | 23780 | 709 | 16QAM | 1 | 0 | 22.68 | 19.43 | 21.58 | 34.77 | -15.34 |
| | | | | 1 | 49 | 22.58 | 19.33 | 21.48 | 34.77 | -15.44 |
| | | | | 25 | 12 | 21.52 | 18.27 | 20.42 | 34.77 | -16.50 |
| | | | | 50 | 0 | 21.49 | 18.24 | 20.39 | 34.77 | -16.53 |
| | 23790 | 710 | 16QAM | 1 | 0 | 21.85 | 18.60 | 20.75 | 34.77 | -16.17 |
| | | | | 1 | 49 | 21.95 | 18.70 | 20.85 | 34.77 | -16.07 |
| | | | | 25 | 12 | 20.53 | 17.28 | 19.43 | 34.77 | -17.49 |
| | | | | 50 | 0 | 20.49 | 17.24 | 19.39 | 34.77 | -17.53 |
| | 23800 | 711 | 16QAM | 1 | 0 | 20.52 | 17.27 | 19.42 | 34.77 | -17.50 |
| | | | | 1 | 49 | 20.53 | 17.28 | 19.43 | 34.77 | -17.49 |
| | | | | 25 | 12 | 19.43 | 16.18 | 18.33 | 34.77 | -18.59 |
| | | | | 50 | 0 | 19.50 | 16.25 | 18.40 | 34.77 | -18.52 |
| 10 | 23780 | 709 | 64QAM | 1 | 0 | 22.65 | 19.40 | 21.55 | 34.77 | -15.37 |
| | | | | 1 | 49 | 22.60 | 19.35 | 21.50 | 34.77 | -15.42 |
| | | | | 25 | 12 | 21.53 | 18.28 | 20.43 | 34.77 | -16.49 |
| | | | | 50 | 0 | 21.42 | 18.17 | 20.32 | 34.77 | -16.60 |
| | 23790 | 710 | 64QAM | 1 | 0 | 21.85 | 18.60 | 20.75 | 34.77 | -16.17 |
| | | | | 1 | 49 | 21.93 | 18.68 | 20.83 | 34.77 | -16.09 |
| | | | | 25 | 12 | 20.55 | 17.30 | 19.45 | 34.77 | -17.47 |
| | | | | 50 | 0 | 20.42 | 17.17 | 19.32 | 34.77 | -17.60 |
| | 23800 | 711 | 64QAM | 1 | 0 | 20.55 | 17.30 | 19.45 | 34.77 | -17.47 |
| | | | | 1 | 49 | 20.52 | 17.27 | 19.42 | 34.77 | -17.50 |
| | | | | 25 | 12 | 19.42 | 16.17 | 18.32 | 34.77 | -18.60 |
| | | | | 50 | 0 | 19.56 | 16.31 | 18.46 | 34.77 | -18.46 |

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| Antenna gain (dBi) | | 0.2 | | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 26_Uplink 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) | ERP Limit (dBm) | Margin (dB) |
| 1.4 | 26797 | 824.7 | QPSK | 1 | 0 | 22.73 | 20.78 | 22.93 | 38.45 | -17.67 |
| | | | | 1 | 5 | 22.81 | 20.86 | 23.01 | 38.45 | -17.59 |
| | | | | 3 | 2 | 22.76 | 20.81 | 22.96 | 38.45 | -17.64 |
| | | | | 6 | 0 | 21.68 | 19.73 | 21.88 | 38.45 | -18.72 |
| | 26915 | 836.5 | QPSK | 1 | 0 | 21.61 | 19.66 | 21.81 | 38.45 | -18.79 |
| | | | | 1 | 5 | 21.63 | 19.68 | 21.83 | 38.45 | -18.77 |
| | | | | 3 | 2 | 21.85 | 19.90 | 22.05 | 38.45 | -18.55 |
| | | | | 6 | 0 | 20.82 | 18.87 | 21.02 | 38.45 | -19.58 |
| | 27033 | 848.3 | QPSK | 1 | 0 | 20.87 | 18.92 | 21.07 | 38.45 | -19.53 |
| | | | | 1 | 5 | 20.75 | 18.80 | 20.95 | 38.45 | -19.65 |
| | | | | 3 | 2 | 20.88 | 18.93 | 21.08 | 38.45 | -19.52 |
| | | | | 6 | 0 | 19.60 | 17.65 | 19.80 | 38.45 | -20.80 |
| 1.4 | 26797 | 824.7 | 16QAM | 1 | 0 | 22.68 | 20.73 | 22.88 | 38.45 | -17.72 |
| | | | | 1 | 5 | 22.89 | 20.94 | 23.09 | 38.45 | -17.51 |
| | | | | 3 | 2 | 22.66 | 20.71 | 22.86 | 38.45 | -17.74 |
| | | | | 6 | 0 | 21.84 | 19.89 | 22.04 | 38.45 | -18.56 |
| | 26915 | 836.5 | 16QAM | 1 | 0 | 21.84 | 19.89 | 22.04 | 38.45 | -18.56 |
| | | | | 1 | 5 | 21.83 | 19.88 | 22.03 | 38.45 | -18.57 |
| | | | | 3 | 2 | 21.83 | 19.88 | 22.03 | 38.45 | -18.57 |
| | | | | 6 | 0 | 20.77 | 18.82 | 20.97 | 38.45 | -19.63 |
| | 27033 | 848.3 | 16QAM | 1 | 0 | 20.65 | 18.70 | 20.85 | 38.45 | -19.75 |
| | | | | 1 | 5 | 20.85 | 18.90 | 21.05 | 38.45 | -19.55 |
| | | | | 3 | 2 | 20.79 | 18.84 | 20.99 | 38.45 | -19.61 |
| | | | | 6 | 0 | 19.76 | 17.81 | 19.96 | 38.45 | -20.64 |
| 1.4 | 26797 | 824.7 | 64QAM | 1 | 0 | 22.77 | 20.82 | 22.97 | 38.45 | -17.63 |
| | | | | 1 | 5 | 22.85 | 20.90 | 23.05 | 38.45 | -17.55 |
| | | | | 3 | 2 | 22.83 | 20.88 | 23.03 | 38.45 | -17.57 |
| | | | | 6 | 0 | 21.68 | 19.73 | 21.88 | 38.45 | -18.72 |
| | 26915 | 836.5 | 64QAM | 1 | 0 | 21.83 | 19.88 | 22.03 | 38.45 | -18.57 |
| | | | | 1 | 5 | 21.79 | 19.84 | 21.99 | 38.45 | -18.61 |
| | | | | 3 | 2 | 21.75 | 19.80 | 21.95 | 38.45 | -18.65 |
| | | | | 6 | 0 | 20.82 | 18.87 | 21.02 | 38.45 | -19.58 |
| | 27033 | 848.3 | 64QAM | 1 | 0 | 20.81 | 18.86 | 21.01 | 38.45 | -19.59 |
| | | | | 1 | 5 | 20.77 | 18.82 | 20.97 | 38.45 | -19.63 |
| | | | | 3 | 2 | 20.73 | 18.78 | 20.93 | 38.45 | -19.67 |
| | | | | 6 | 0 | 19.87 | 17.92 | 20.07 | 38.45 | -20.53 |

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| Antenna gain (dBi) | | 0.2 | | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 26_Uplink 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) | ERP Limit (dBm) | Margin (dB) |
| 3 | 26805 | 825.5 | QPSK | 1 | 0 | 22.62 | 20.67 | 22.82 | 38.45 | -17.78 |
| | | | | 1 | 14 | 22.70 | 20.75 | 22.90 | 38.45 | -17.70 |
| | | | | 8 | 4 | 21.62 | 19.67 | 21.82 | 38.45 | -18.78 |
| | | | | 15 | 0 | 21.60 | 19.65 | 21.80 | 38.45 | -18.80 |
| | 26915 | 836.5 | QPSK | 1 | 0 | 21.69 | 19.74 | 21.89 | 38.45 | -18.71 |
| | | | | 1 | 14 | 21.80 | 19.85 | 22.00 | 38.45 | -18.60 |
| | | | | 8 | 4 | 20.86 | 18.91 | 21.06 | 38.45 | -19.54 |
| | | | | 15 | 0 | 20.79 | 18.84 | 20.99 | 38.45 | -19.61 |
| | 27025 | 847.5 | QPSK | 1 | 0 | 20.88 | 18.93 | 21.08 | 38.45 | -19.52 |
| | | | | 1 | 14 | 20.73 | 18.78 | 20.93 | 38.45 | -19.67 |
| | | | | 8 | 4 | 19.83 | 17.88 | 20.03 | 38.45 | -20.57 |
| | | | | 15 | 0 | 19.63 | 17.68 | 19.83 | 38.45 | -20.77 |
| 3 | 26805 | 825.5 | 16QAM | 1 | 0 | 22.69 | 20.74 | 22.89 | 38.45 | -17.71 |
| | | | | 1 | 14 | 22.69 | 20.74 | 22.89 | 38.45 | -17.71 |
| | | | | 8 | 4 | 21.71 | 19.76 | 21.91 | 38.45 | -18.69 |
| | | | | 15 | 0 | 21.60 | 19.65 | 21.80 | 38.45 | -18.80 |
| | 26915 | 836.5 | 16QAM | 1 | 0 | 21.71 | 19.76 | 21.91 | 38.45 | -18.69 |
| | | | | 1 | 14 | 21.67 | 19.72 | 21.87 | 38.45 | -18.73 |
| | | | | 8 | 4 | 20.68 | 18.73 | 20.88 | 38.45 | -19.72 |
| | | | | 15 | 0 | 20.72 | 18.77 | 20.92 | 38.45 | -19.68 |
| | 27025 | 847.5 | 16QAM | 1 | 0 | 20.63 | 18.68 | 20.83 | 38.45 | -19.77 |
| | | | | 1 | 14 | 20.81 | 18.86 | 21.01 | 38.45 | -19.59 |
| | | | | 8 | 4 | 19.82 | 17.87 | 20.02 | 38.45 | -20.58 |
| | | | | 15 | 0 | 19.66 | 17.71 | 19.86 | 38.45 | -20.74 |
| 3 | 26805 | 825.5 | 64QAM | 1 | 0 | 22.75 | 20.80 | 22.95 | 38.45 | -17.65 |
| | | | | 1 | 14 | 22.74 | 20.79 | 22.94 | 38.45 | -17.66 |
| | | | | 8 | 4 | 21.64 | 19.69 | 21.84 | 38.45 | -18.76 |
| | | | | 15 | 0 | 21.71 | 19.76 | 21.91 | 38.45 | -18.69 |
| | 26915 | 836.5 | 64QAM | 1 | 0 | 21.61 | 19.66 | 21.81 | 38.45 | -18.79 |
| | | | | 1 | 14 | 21.87 | 19.92 | 22.07 | 38.45 | -18.53 |
| | | | | 8 | 4 | 20.73 | 18.78 | 20.93 | 38.45 | -19.67 |
| | | | | 15 | 0 | 20.61 | 18.66 | 20.81 | 38.45 | -19.79 |
| | 27025 | 847.5 | 64QAM | 1 | 0 | 20.77 | 18.82 | 20.97 | 38.45 | -19.63 |
| | | | | 1 | 14 | 20.67 | 18.72 | 20.87 | 38.45 | -19.73 |
| | | | | 8 | 4 | 19.79 | 17.84 | 19.99 | 38.45 | -20.61 |
| | | | | 15 | 0 | 19.86 | 17.91 | 20.06 | 38.45 | -20.54 |

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

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| Antenna gain (dBi) | | 0.2 | | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 26_Uplink 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) | ERP Limit (dBm) | Margin (dB) |
| 5 | 26815 | 826.5 | QPSK | 1 | 0 | 22.82 | 20.87 | 23.02 | 38.45 | -17.58 |
| | | | | 1 | 24 | 22.62 | 20.67 | 22.82 | 38.45 | -17.78 |
| | | | | 12 | 6 | 21.82 | 19.87 | 22.02 | 38.45 | -18.58 |
| | | | | 25 | 0 | 21.70 | 19.75 | 21.90 | 38.45 | -18.70 |
| | 26915 | 836.5 | QPSK | 1 | 0 | 21.62 | 19.67 | 21.82 | 38.45 | -18.78 |
| | | | | 1 | 24 | 21.90 | 19.95 | 22.10 | 38.45 | -18.50 |
| | | | | 12 | 6 | 20.62 | 18.67 | 20.82 | 38.45 | -19.78 |
| | | | | 25 | 0 | 20.61 | 18.66 | 20.81 | 38.45 | -19.79 |
| | 27015 | 846.5 | QPSK | 1 | 0 | 20.69 | 18.74 | 20.89 | 38.45 | -19.71 |
| | | | | 1 | 24 | 20.84 | 18.89 | 21.04 | 38.45 | -19.56 |
| | | | | 12 | 6 | 19.81 | 17.86 | 20.01 | 38.45 | -20.59 |
| | | | | 25 | 0 | 19.67 | 17.72 | 19.87 | 38.45 | -20.73 |
| 5 | 26815 | 826.5 | 16QAM | 1 | 0 | 22.82 | 20.87 | 23.02 | 38.45 | -17.58 |
| | | | | 1 | 24 | 22.67 | 20.72 | 22.87 | 38.45 | -17.73 |
| | | | | 12 | 6 | 21.65 | 19.70 | 21.85 | 38.45 | -18.75 |
| | | | | 25 | 0 | 21.74 | 19.79 | 21.94 | 38.45 | -18.66 |
| | 26915 | 836.5 | 16QAM | 1 | 0 | 21.70 | 19.75 | 21.90 | 38.45 | -18.70 |
| | | | | 1 | 24 | 21.85 | 19.90 | 22.05 | 38.45 | -18.55 |
| | | | | 12 | 6 | 20.68 | 18.73 | 20.88 | 38.45 | -19.72 |
| | | | | 25 | 0 | 20.71 | 18.76 | 20.91 | 38.45 | -19.69 |
| | 27015 | 846.5 | 16QAM | 1 | 0 | 20.70 | 18.75 | 20.90 | 38.45 | -19.70 |
| | | | | 1 | 24 | 20.63 | 18.68 | 20.83 | 38.45 | -19.77 |
| | | | | 12 | 6 | 19.68 | 17.73 | 19.88 | 38.45 | -20.72 |
| | | | | 25 | 0 | 19.70 | 17.75 | 19.90 | 38.45 | -20.70 |
| 5 | 26815 | 826.5 | 64QAM | 1 | 0 | 22.67 | 20.72 | 22.87 | 38.45 | -17.73 |
| | | | | 1 | 24 | 22.81 | 20.86 | 23.01 | 38.45 | -17.59 |
| | | | | 12 | 6 | 21.83 | 19.88 | 22.03 | 38.45 | -18.57 |
| | | | | 25 | 0 | 21.82 | 19.87 | 22.02 | 38.45 | -18.58 |
| | 26915 | 836.5 | 64QAM | 1 | 0 | 21.76 | 19.81 | 21.96 | 38.45 | -18.64 |
| | | | | 1 | 24 | 21.69 | 19.74 | 21.89 | 38.45 | -18.71 |
| | | | | 12 | 6 | 20.73 | 18.78 | 20.93 | 38.45 | -19.67 |
| | | | | 25 | 0 | 20.63 | 18.68 | 20.83 | 38.45 | -19.77 |
| | 27015 | 846.5 | 64QAM | 1 | 0 | 20.79 | 18.84 | 20.99 | 38.45 | -19.61 |
| | | | | 1 | 24 | 20.89 | 18.94 | 21.09 | 38.45 | -19.51 |
| | | | | 12 | 6 | 19.69 | 17.74 | 19.89 | 38.45 | -20.71 |
| | | | | 25 | 0 | 19.90 | 17.95 | 20.10 | 38.45 | -20.50 |

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| Antenna gain (dBi) | | 0.2 | | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 26_Uplink 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) | ERP Limit (dBm) | Margin (dB) |
| 10 | 26840 | 829 | QPSK | 1 | 0 | 22.62 | 20.67 | 22.82 | 38.45 | -17.78 |
| | | | | 1 | 49 | 22.72 | 20.77 | 22.92 | 38.45 | -17.68 |
| | | | | 25 | 12 | 21.64 | 19.69 | 21.84 | 38.45 | -18.76 |
| | | | | 50 | 0 | 21.85 | 19.90 | 22.05 | 38.45 | -18.55 |
| | 26915 | 836.5 | QPSK | 1 | 0 | 21.73 | 19.78 | 21.93 | 38.45 | -18.67 |
| | | | | 1 | 49 | 21.77 | 19.82 | 21.97 | 38.45 | -18.63 |
| | | | | 25 | 12 | 20.61 | 18.66 | 20.81 | 38.45 | -19.79 |
| | | | | 50 | 0 | 20.79 | 18.84 | 20.99 | 38.45 | -19.61 |
| | 26990 | 844 | QPSK | 1 | 0 | 20.73 | 18.78 | 20.93 | 38.45 | -19.67 |
| | | | | 1 | 49 | 20.64 | 18.69 | 20.84 | 38.45 | -19.76 |
| | | | | 25 | 12 | 19.80 | 17.85 | 20.00 | 38.45 | -20.60 |
| | | | | 50 | 0 | 19.80 | 17.85 | 20.00 | 38.45 | -20.60 |
| 10 | 26840 | 829 | 16QAM | 1 | 0 | 22.82 | 20.87 | 23.02 | 38.45 | -17.58 |
| | | | | 1 | 49 | 22.67 | 20.72 | 22.87 | 38.45 | -17.73 |
| | | | | 25 | 12 | 21.62 | 19.67 | 21.82 | 38.45 | -18.78 |
| | | | | 50 | 0 | 21.88 | 19.93 | 22.08 | 38.45 | -18.52 |
| | 26915 | 836.5 | 16QAM | 1 | 0 | 21.82 | 19.87 | 22.02 | 38.45 | -18.58 |
| | | | | 1 | 49 | 21.89 | 19.94 | 22.09 | 38.45 | -18.51 |
| | | | | 25 | 12 | 20.76 | 18.81 | 20.96 | 38.45 | -19.64 |
| | | | | 50 | 0 | 20.73 | 18.78 | 20.93 | 38.45 | -19.67 |
| | 26990 | 844 | 16QAM | 1 | 0 | 20.78 | 18.83 | 20.98 | 38.45 | -19.62 |
| | | | | 1 | 49 | 20.81 | 18.86 | 21.01 | 38.45 | -19.59 |
| | | | | 25 | 12 | 19.73 | 17.78 | 19.93 | 38.45 | -20.67 |
| | | | | 50 | 0 | 19.90 | 17.95 | 20.10 | 38.45 | -20.50 |
| 10 | 26840 | 829 | 64QAM | 1 | 0 | 22.66 | 20.71 | 22.86 | 38.45 | -17.74 |
| | | | | 1 | 49 | 22.84 | 20.89 | 23.04 | 38.45 | -17.56 |
| | | | | 25 | 12 | 21.76 | 19.81 | 21.96 | 38.45 | -18.64 |
| | | | | 50 | 0 | 21.73 | 19.78 | 21.93 | 38.45 | -18.67 |
| | 26915 | 836.5 | 64QAM | 1 | 0 | 21.77 | 19.82 | 21.97 | 38.45 | -18.63 |
| | | | | 1 | 49 | 21.87 | 19.92 | 22.07 | 38.45 | -18.53 |
| | | | | 25 | 12 | 20.83 | 18.88 | 21.03 | 38.45 | -19.57 |
| | | | | 50 | 0 | 20.62 | 18.67 | 20.82 | 38.45 | -19.78 |
| | 26990 | 844 | 64QAM | 1 | 0 | 20.62 | 18.67 | 20.82 | 38.45 | -19.78 |
| | | | | 1 | 49 | 20.73 | 18.78 | 20.93 | 38.45 | -19.67 |
| | | | | 25 | 12 | 19.71 | 17.76 | 19.91 | 38.45 | -20.69 |
| | | | | 50 | 0 | 19.80 | 17.85 | 20.00 | 38.45 | -20.60 |

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| Antenna gain (dBi) | | 0.2 | | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| LTE Band 26_Uplink 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) | ERP Limit (dBm) | Margin (dB) |
| 15 | 26865 | 831.5 | QPSK | 1 | 0 | 22.99 | 21.04 | 23.19 | 38.45 | -17.41 |
| | | | | 1 | 74 | 22.93 | 20.98 | 23.13 | 38.45 | -17.47 |
| | | | | 36 | 18 | 21.93 | 19.98 | 22.13 | 38.45 | -18.47 |
| | | | | 75 | 0 | 21.96 | 20.01 | 22.16 | 38.45 | -18.44 |
| | 26915 | 836.5 | QPSK | 1 | 0 | 21.60 | 19.65 | 21.80 | 38.45 | -18.80 |
| | | | | 1 | 74 | 21.64 | 19.69 | 21.84 | 38.45 | -18.76 |
| | | | | 36 | 18 | 20.78 | 18.83 | 20.98 | 38.45 | -19.62 |
| | | | | 75 | 0 | 20.62 | 18.67 | 20.82 | 38.45 | -19.78 |
| | 26965 | 841.5 | QPSK | 1 | 0 | 20.72 | 18.77 | 20.92 | 38.45 | -19.68 |
| | | | | 1 | 74 | 20.62 | 18.67 | 20.82 | 38.45 | -19.78 |
| | | | | 36 | 18 | 19.78 | 17.83 | 19.98 | 38.45 | -20.62 |
| | | | | 75 | 0 | 19.79 | 17.84 | 19.99 | 38.45 | -20.61 |
| 15 | 26865 | 831.5 | 16QAM | 1 | 0 | 22.96 | 21.01 | 23.16 | 38.45 | -17.44 |
| | | | | 1 | 74 | 22.76 | 20.81 | 22.96 | 38.45 | -17.64 |
| | | | | 36 | 18 | 21.91 | 19.96 | 22.11 | 38.45 | -18.49 |
| | | | | 75 | 0 | 21.91 | 19.96 | 22.11 | 38.45 | -18.49 |
| | 26915 | 836.5 | 16QAM | 1 | 0 | 21.78 | 19.83 | 21.98 | 38.45 | -18.62 |
| | | | | 1 | 74 | 21.65 | 19.70 | 21.85 | 38.45 | -18.75 |
| | | | | 36 | 18 | 20.77 | 18.82 | 20.97 | 38.45 | -19.63 |
| | | | | 75 | 0 | 20.70 | 18.75 | 20.90 | 38.45 | -19.70 |
| | 26965 | 841.5 | 16QAM | 1 | 0 | 20.85 | 18.90 | 21.05 | 38.45 | -19.55 |
| | | | | 1 | 74 | 20.74 | 18.79 | 20.94 | 38.45 | -19.66 |
| | | | | 36 | 18 | 19.60 | 17.65 | 19.80 | 38.45 | -20.80 |
| | | | | 75 | 0 | 19.62 | 17.67 | 19.82 | 38.45 | -20.78 |
| 15 | 26865 | 831.5 | 64QAM | 1 | 0 | 22.93 | 20.98 | 23.13 | 38.45 | -17.47 |
| | | | | 1 | 74 | 22.62 | 20.67 | 22.82 | 38.45 | -17.78 |
| | | | | 36 | 18 | 21.80 | 19.85 | 22.00 | 38.45 | -18.60 |
| | | | | 75 | 0 | 21.76 | 19.81 | 21.96 | 38.45 | -18.64 |
| | 26915 | 836.5 | 64QAM | 1 | 0 | 21.88 | 19.93 | 22.08 | 38.45 | -18.52 |
| | | | | 1 | 74 | 21.81 | 19.86 | 22.01 | 38.45 | -18.59 |
| | | | | 36 | 18 | 20.83 | 18.88 | 21.03 | 38.45 | -19.57 |
| | | | | 75 | 0 | 20.63 | 18.68 | 20.83 | 38.45 | -19.77 |
| | 26965 | 841.5 | 64QAM | 1 | 0 | 20.89 | 18.94 | 21.09 | 38.45 | -19.51 |
| | | | | 1 | 74 | 20.72 | 18.77 | 20.92 | 38.45 | -19.68 |
| | | | | 36 | 18 | 19.89 | 17.94 | 20.09 | 38.45 | -20.51 |
| | | | | 75 | 0 | 19.65 | 17.70 | 19.85 | 38.45 | -20.75 |

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| Antenna gain (dBi) | | 0.2 | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz | | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 1.4 | 26697 | 814.7 | QPSK | 1 | 0 | 22.79 | 20.84 | 22.99 | 50 | -29.16 |
| | | | | 1 | 5 | 22.94 | 20.99 | 23.14 | 50 | -29.01 |
| | | | | 3 | 2 | 22.84 | 20.89 | 23.04 | 50 | -29.11 |
| | | | | 6 | 0 | 21.46 | 19.51 | 21.66 | 50 | -30.49 |
| | 26740 | 819 | QPSK | 1 | 0 | 21.42 | 19.47 | 21.62 | 50 | -30.53 |
| | | | | 1 | 5 | 21.85 | 19.90 | 22.05 | 50 | -30.10 |
| | | | | 3 | 2 | 21.96 | 20.01 | 22.16 | 50 | -29.99 |
| | | | | 6 | 0 | 20.94 | 18.99 | 21.14 | 50 | -31.01 |
| | 26783 | 823.3 | QPSK | 1 | 0 | 20.71 | 18.76 | 20.91 | 50 | -31.24 |
| | | | | 1 | 5 | 20.89 | 18.94 | 21.09 | 50 | -31.06 |
| | | | | 3 | 2 | 20.95 | 19.00 | 21.15 | 50 | -31.00 |
| | | | | 6 | 0 | 19.43 | 17.48 | 19.63 | 50 | -32.52 |
| 1.4 | 26697 | 814.7 | 16QAM | 1 | 0 | 22.67 | 20.72 | 22.87 | 50 | -29.28 |
| | | | | 1 | 5 | 22.70 | 20.75 | 22.90 | 50 | -29.25 |
| | | | | 3 | 2 | 22.72 | 20.77 | 22.92 | 50 | -29.23 |
| | | | | 6 | 0 | 21.67 | 19.72 | 21.87 | 50 | -30.28 |
| | 26740 | 819 | 16QAM | 1 | 0 | 22.06 | 20.11 | 22.26 | 50 | -29.89 |
| | | | | 1 | 5 | 21.72 | 19.77 | 21.92 | 50 | -30.23 |
| | | | | 3 | 2 | 21.70 | 19.75 | 21.90 | 50 | -30.25 |
| | | | | 6 | 0 | 20.89 | 18.94 | 21.09 | 50 | -31.06 |
| | 26783 | 823.3 | 16QAM | 1 | 0 | 20.69 | 18.74 | 20.89 | 50 | -31.26 |
| | | | | 1 | 5 | 21.06 | 19.11 | 21.26 | 50 | -30.89 |
| | | | | 3 | 2 | 20.95 | 19.00 | 21.15 | 50 | -31.00 |
| | | | | 6 | 0 | 19.70 | 17.75 | 19.90 | 50 | -32.25 |
| 1.4 | 26697 | 814.7 | 64QAM | 1 | 0 | 22.88 | 20.93 | 23.08 | 50 | -29.07 |
| | | | | 1 | 5 | 22.76 | 20.81 | 22.96 | 50 | -29.19 |
| | | | | 3 | 2 | 22.74 | 20.79 | 22.94 | 50 | -29.21 |
| | | | | 6 | 0 | 21.69 | 19.74 | 21.89 | 50 | -30.26 |
| | 26740 | 819 | 64QAM | 1 | 0 | 21.64 | 19.69 | 21.84 | 50 | -30.31 |
| | | | | 1 | 5 | 21.95 | 20.00 | 22.15 | 50 | -30.00 |
| | | | | 3 | 2 | 21.95 | 20.00 | 22.15 | 50 | -30.00 |
| | | | | 6 | 0 | 20.65 | 18.70 | 20.85 | 50 | -31.30 |
| | 26783 | 823.3 | 64QAM | 1 | 0 | 20.83 | 18.88 | 21.03 | 50 | -31.12 |
| | | | | 1 | 5 | 20.56 | 18.61 | 20.76 | 50 | -31.39 |
| | | | | 3 | 2 | 20.63 | 18.68 | 20.83 | 50 | -31.32 |
| | | | | 6 | 0 | 20.06 | 18.11 | 20.26 | 50 | -31.89 |

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| Antenna gain (dBi) | | 0.2 | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz | | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 3 | 26705 | 815.5 | QPSK | 1 | 0 | 22.67 | 20.72 | 22.87 | 50 | -29.28 |
| | | | | 1 | 14 | 22.51 | 20.56 | 22.71 | 50 | -29.44 |
| | | | | 8 | 4 | 21.61 | 19.66 | 21.81 | 50 | -30.34 |
| | | | | 15 | 0 | 21.46 | 19.51 | 21.66 | 50 | -30.49 |
| | 26740 | 819 | QPSK | 1 | 0 | 21.86 | 19.91 | 22.06 | 50 | -30.09 |
| | | | | 1 | 14 | 22.00 | 20.05 | 22.20 | 50 | -29.95 |
| | | | | 8 | 4 | 21.03 | 19.08 | 21.23 | 50 | -30.92 |
| | | | | 15 | 0 | 20.75 | 18.80 | 20.95 | 50 | -31.20 |
| | 26775 | 822.5 | QPSK | 1 | 0 | 20.95 | 19.00 | 21.15 | 50 | -31.00 |
| | | | | 1 | 14 | 20.85 | 18.90 | 21.05 | 50 | -31.10 |
| | | | | 8 | 4 | 19.62 | 17.67 | 19.82 | 50 | -32.33 |
| | | | | 15 | 0 | 19.56 | 17.61 | 19.76 | 50 | -32.39 |
| 3 | 26705 | 815.5 | 16QAM | 1 | 0 | 22.73 | 20.78 | 22.93 | 50 | -29.22 |
| | | | | 1 | 14 | 22.92 | 20.97 | 23.12 | 50 | -29.03 |
| | | | | 8 | 4 | 21.66 | 19.71 | 21.86 | 50 | -30.29 |
| | | | | 15 | 0 | 21.68 | 19.73 | 21.88 | 50 | -30.27 |
| | 26740 | 819 | 16QAM | 1 | 0 | 21.96 | 20.01 | 22.16 | 50 | -29.99 |
| | | | | 1 | 14 | 21.75 | 19.80 | 21.95 | 50 | -30.20 |
| | | | | 8 | 4 | 20.73 | 18.78 | 20.93 | 50 | -31.22 |
| | | | | 15 | 0 | 20.88 | 18.93 | 21.08 | 50 | -31.07 |
| | 26775 | 822.5 | 16QAM | 1 | 0 | 20.48 | 18.53 | 20.68 | 50 | -31.47 |
| | | | | 1 | 14 | 20.79 | 18.84 | 20.99 | 50 | -31.16 |
| | | | | 8 | 4 | 20.04 | 18.09 | 20.24 | 50 | -31.91 |
| | | | | 15 | 0 | 19.69 | 17.74 | 19.89 | 50 | -32.26 |
| 3 | 26705 | 815.5 | 64QAM | 1 | 0 | 22.81 | 20.86 | 23.01 | 50 | -29.14 |
| | | | | 1 | 14 | 22.59 | 20.64 | 22.79 | 50 | -29.36 |
| | | | | 8 | 4 | 21.54 | 19.59 | 21.74 | 50 | -30.41 |
| | | | | 15 | 0 | 21.76 | 19.81 | 21.96 | 50 | -30.19 |
| | 26740 | 819 | 64QAM | 1 | 0 | 21.70 | 19.75 | 21.90 | 50 | -30.25 |
| | | | | 1 | 14 | 22.04 | 20.09 | 22.24 | 50 | -29.91 |
| | | | | 8 | 4 | 20.69 | 18.74 | 20.89 | 50 | -31.26 |
| | | | | 15 | 0 | 20.52 | 18.57 | 20.72 | 50 | -31.43 |
| | 26775 | 822.5 | 64QAM | 1 | 0 | 20.75 | 18.80 | 20.95 | 50 | -31.20 |
| | | | | 1 | 14 | 20.55 | 18.60 | 20.75 | 50 | -31.40 |
| | | | | 8 | 4 | 19.75 | 17.80 | 19.95 | 50 | -32.20 |
| | | | | 15 | 0 | 19.80 | 17.85 | 20.00 | 50 | -32.15 |

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| Antenna gain (dBi) | | 0.2 | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz | | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 5 | 26715 | 816.5 | QPSK | 1 | 0 | 22.69 | 20.74 | 22.89 | 50 | -29.26 |
| | | | | 1 | 24 | 22.54 | 20.59 | 22.74 | 50 | -29.41 |
| | | | | 12 | 6 | 21.58 | 19.63 | 21.78 | 50 | -30.37 |
| | | | | 25 | 0 | 21.47 | 19.52 | 21.67 | 50 | -30.48 |
| | 26740 | 819 | QPSK | 1 | 0 | 21.66 | 19.71 | 21.86 | 50 | -30.29 |
| | | | | 1 | 24 | 21.74 | 19.79 | 21.94 | 50 | -30.21 |
| | | | | 12 | 6 | 20.80 | 18.85 | 21.00 | 50 | -31.15 |
| | | | | 25 | 0 | 20.54 | 18.59 | 20.74 | 50 | -31.41 |
| | 26765 | 821.5 | QPSK | 1 | 0 | 20.75 | 18.80 | 20.95 | 50 | -31.20 |
| | | | | 1 | 24 | 21.09 | 19.14 | 21.29 | 50 | -30.86 |
| | | | | 12 | 6 | 19.83 | 17.88 | 20.03 | 50 | -32.12 |
| | | | | 25 | 0 | 19.61 | 17.66 | 19.81 | 50 | -32.34 |
| 5 | 26715 | 816.5 | 16QAM | 1 | 0 | 22.61 | 20.66 | 22.81 | 50 | -29.34 |
| | | | | 1 | 24 | 22.76 | 20.81 | 22.96 | 50 | -29.19 |
| | | | | 12 | 6 | 21.60 | 19.65 | 21.80 | 50 | -30.35 |
| | | | | 25 | 0 | 21.60 | 19.65 | 21.80 | 50 | -30.35 |
| | 26740 | 819 | 16QAM | 1 | 0 | 21.64 | 19.69 | 21.84 | 50 | -30.31 |
| | | | | 1 | 24 | 21.96 | 20.01 | 22.16 | 50 | -29.99 |
| | | | | 12 | 6 | 20.88 | 18.93 | 21.08 | 50 | -31.07 |
| | | | | 25 | 0 | 20.55 | 18.60 | 20.75 | 50 | -31.40 |
| | 26765 | 821.5 | 16QAM | 1 | 0 | 20.73 | 18.78 | 20.93 | 50 | -31.22 |
| | | | | 1 | 24 | 20.67 | 18.72 | 20.87 | 50 | -31.28 |
| | | | | 12 | 6 | 19.53 | 17.58 | 19.73 | 50 | -32.42 |
| | | | | 25 | 0 | 19.68 | 17.73 | 19.88 | 50 | -32.27 |
| 5 | 26715 | 816.5 | 64QAM | 1 | 0 | 22.65 | 20.70 | 22.85 | 50 | -29.30 |
| | | | | 1 | 24 | 22.88 | 20.93 | 23.08 | 50 | -29.07 |
| | | | | 12 | 6 | 21.76 | 19.81 | 21.96 | 50 | -30.19 |
| | | | | 25 | 0 | 21.80 | 19.85 | 22.00 | 50 | -30.15 |
| | 26740 | 819 | 64QAM | 1 | 0 | 21.58 | 19.63 | 21.78 | 50 | -30.37 |
| | | | | 1 | 24 | 21.93 | 19.98 | 22.13 | 50 | -30.02 |
| | | | | 12 | 6 | 20.72 | 18.77 | 20.92 | 50 | -31.23 |
| | | | | 25 | 0 | 20.48 | 18.53 | 20.68 | 50 | -31.47 |
| | 26765 | 821.5 | 64QAM | 1 | 0 | 20.84 | 18.89 | 21.04 | 50 | -31.11 |
| | | | | 1 | 24 | 20.73 | 18.78 | 20.93 | 50 | -31.22 |
| | | | | 12 | 6 | 19.69 | 17.74 | 19.89 | 50 | -32.26 |
| | | | | 25 | 0 | 19.94 | 17.99 | 20.14 | 50 | -32.01 |

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| Antenna gain (dBi) | | 0.2 | | | | | | | | |
|---|------------|-----------------|------------|---------|-----------|-------------------------|-------------------|--------------------|-----------------|-------------|
| Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz | | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | ERP Average (dBm) | EIRP Average (dBm) | ERP Limit (dBm) | Margin (dB) |
| 10 | 26740 | 819 | QPSK | 1 | 0 | 22.62 | 20.67 | 22.82 | 50 | -29.33 |
| | | | | 1 | 49 | 22.72 | 20.77 | 22.92 | 50 | -29.23 |
| | | | | 25 | 12 | 21.64 | 19.69 | 21.84 | 50 | -30.31 |
| | | | | 50 | 0 | 21.85 | 19.90 | 22.05 | 50 | -30.10 |
| 10 | 26740 | 819 | 16QAM | 1 | 0 | 21.73 | 19.78 | 21.93 | 50 | -30.22 |
| | | | | 1 | 49 | 21.77 | 19.82 | 21.97 | 50 | -30.18 |
| | | | | 25 | 12 | 20.61 | 18.66 | 20.81 | 50 | -31.34 |
| | | | | 50 | 0 | 20.79 | 18.84 | 20.99 | 50 | -31.16 |
| 10 | 26740 | 819 | 64QAM | 1 | 0 | 20.73 | 18.78 | 20.93 | 50 | -31.22 |
| | | | | 1 | 49 | 20.64 | 18.69 | 20.84 | 50 | -31.31 |
| | | | | 25 | 12 | 19.80 | 17.85 | 20.00 | 50 | -32.15 |
| | | | | 50 | 0 | 19.80 | 17.85 | 20.00 | 50 | -32.15 |

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| Antenna gain (dBi) | | -0.2 | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 41_Uplink frequency band : 2496 to 2690 MHz | | | | | | | | | |
| LTE Band 41_RS199_Uplink frequency band : 2500 to 2690 MHz | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 5 | 39675 | 2498.5 | QPSK | 1 | 0 | 22.57 | 22.57 | 33 | -10.43 |
| | | | | 1 | 24 | 22.52 | 22.52 | 33 | -10.48 |
| | | | | 12 | 6 | 21.30 | 21.30 | 33 | -11.7 |
| | | | | 25 | 0 | 21.36 | 21.36 | 33 | -11.64 |
| | 40620 | 2593 | QPSK | 1 | 0 | 21.30 | 21.30 | 33 | -11.7 |
| | | | | 1 | 24 | 21.33 | 21.33 | 33 | -11.67 |
| | | | | 12 | 6 | 20.47 | 20.47 | 33 | -12.53 |
| | | | | 25 | 0 | 20.48 | 20.48 | 33 | -12.52 |
| | 41565 | 2687.5 | QPSK | 1 | 0 | 20.52 | 20.52 | 33 | -12.48 |
| | | | | 1 | 24 | 20.55 | 20.55 | 33 | -12.45 |
| | | | | 12 | 6 | 19.31 | 19.31 | 33 | -13.69 |
| | | | | 25 | 0 | 19.52 | 19.52 | 33 | -13.48 |
| 5 | 39675 | 2498.5 | 16QAM | 1 | 0 | 22.72 | 22.72 | 33 | -10.28 |
| | | | | 1 | 24 | 22.75 | 22.75 | 33 | -10.25 |
| | | | | 12 | 6 | 21.80 | 21.80 | 33 | -11.2 |
| | | | | 25 | 0 | 21.69 | 21.69 | 33 | -11.31 |
| | 40620 | 2593 | 16QAM | 1 | 0 | 21.77 | 21.77 | 33 | -11.23 |
| | | | | 1 | 24 | 21.69 | 21.69 | 33 | -11.31 |
| | | | | 12 | 6 | 20.64 | 20.64 | 33 | -12.36 |
| | | | | 25 | 0 | 20.70 | 20.70 | 33 | -12.3 |
| | 41565 | 2687.5 | 16QAM | 1 | 0 | 20.68 | 20.68 | 33 | -12.32 |
| | | | | 1 | 24 | 20.61 | 20.61 | 33 | -12.39 |
| | | | | 12 | 6 | 19.88 | 19.88 | 33 | -13.12 |
| | | | | 25 | 0 | 19.62 | 19.62 | 33 | -13.38 |
| 5 | 39675 | 2498.5 | 64QAM | 1 | 0 | 22.58 | 22.58 | 33 | -10.42 |
| | | | | 1 | 24 | 22.58 | 22.58 | 33 | -10.42 |
| | | | | 12 | 6 | 21.52 | 21.52 | 33 | -11.48 |
| | | | | 25 | 0 | 21.68 | 21.68 | 33 | -11.32 |
| | 40620 | 2593 | 64QAM | 1 | 0 | 21.57 | 21.57 | 33 | -11.43 |
| | | | | 1 | 24 | 21.59 | 21.59 | 33 | -11.41 |
| | | | | 12 | 6 | 20.56 | 20.56 | 33 | -12.44 |
| | | | | 25 | 0 | 20.64 | 20.64 | 33 | -12.36 |
| | 41565 | 2687.5 | 64QAM | 1 | 0 | 20.50 | 20.50 | 33 | -12.5 |
| | | | | 1 | 24 | 20.64 | 20.64 | 33 | -12.36 |
| | | | | 12 | 6 | 19.53 | 19.53 | 33 | -13.47 |
| | | | | 25 | 0 | 19.60 | 19.60 | 33 | -13.4 |

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| Antenna gain (dBi) | | -0.2 | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 41_Uplink frequency band : 2496 to 2690 MHz LTE Band 41_RS199_Uplink frequency band : 2500 to 2690 MHz | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 10 | 39700 | 2501 | QPSK | 1 | 0 | 22.46 | 22.46 | 33 | -10.54 |
| | | | | 1 | 49 | 22.32 | 22.32 | 33 | -10.68 |
| | | | | 25 | 12 | 21.53 | 21.53 | 33 | -11.47 |
| | | | | 50 | 0 | 21.56 | 21.56 | 33 | -11.44 |
| | 40620 | 2593 | QPSK | 1 | 0 | 21.53 | 21.53 | 33 | -11.47 |
| | | | | 1 | 49 | 21.41 | 21.41 | 33 | -11.59 |
| | | | | 25 | 12 | 20.42 | 20.42 | 33 | -12.58 |
| | | | | 50 | 0 | 20.32 | 20.32 | 33 | -12.68 |
| | 41540 | 2685 | QPSK | 1 | 0 | 20.47 | 20.47 | 33 | -12.53 |
| | | | | 1 | 49 | 20.56 | 20.56 | 33 | -12.44 |
| | | | | 25 | 12 | 19.36 | 19.36 | 33 | -13.64 |
| | | | | 50 | 0 | 19.44 | 19.44 | 33 | -13.56 |
| 10 | 39700 | 2501 | 16QAM | 1 | 0 | 22.88 | 22.88 | 33 | -10.12 |
| | | | | 1 | 49 | 22.65 | 22.65 | 33 | -10.35 |
| | | | | 25 | 12 | 21.69 | 21.69 | 33 | -11.31 |
| | | | | 50 | 0 | 21.65 | 21.65 | 33 | -11.35 |
| | 40620 | 2593 | 16QAM | 1 | 0 | 21.86 | 21.86 | 33 | -11.14 |
| | | | | 1 | 49 | 21.74 | 21.74 | 33 | -11.26 |
| | | | | 25 | 12 | 20.88 | 20.88 | 33 | -12.12 |
| | | | | 50 | 0 | 20.84 | 20.84 | 33 | -12.16 |
| | 41540 | 2685 | 16QAM | 1 | 0 | 20.60 | 20.60 | 33 | -12.4 |
| | | | | 1 | 49 | 20.72 | 20.72 | 33 | -12.28 |
| | | | | 25 | 12 | 19.85 | 19.85 | 33 | -13.15 |
| | | | | 50 | 0 | 19.61 | 19.61 | 33 | -13.39 |
| 10 | 39700 | 2501 | 64QAM | 1 | 0 | 22.67 | 22.67 | 33 | -10.33 |
| | | | | 1 | 49 | 22.57 | 22.57 | 33 | -10.43 |
| | | | | 25 | 12 | 21.60 | 21.60 | 33 | -11.4 |
| | | | | 50 | 0 | 21.70 | 21.70 | 33 | -11.3 |
| | 40620 | 2593 | 64QAM | 1 | 0 | 21.55 | 21.55 | 33 | -11.45 |
| | | | | 1 | 49 | 21.56 | 21.56 | 33 | -11.44 |
| | | | | 25 | 12 | 20.63 | 20.63 | 33 | -12.37 |
| | | | | 50 | 0 | 20.52 | 20.52 | 33 | -12.48 |
| | 41540 | 2685 | 64QAM | 1 | 0 | 20.65 | 20.65 | 33 | -12.35 |
| | | | | 1 | 49 | 20.63 | 20.63 | 33 | -12.37 |
| | | | | 25 | 12 | 19.56 | 19.56 | 33 | -13.44 |
| | | | | 50 | 0 | 19.67 | 19.67 | 33 | -13.33 |

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| Antenna gain (dBi) | | -0.2 | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 41_Uplink frequency band : 2496 to 2690 MHz LTE Band 41_RS199_Uplink frequency band : 2500 to 2690 MHz | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 15 | 39725 | 2503.5 | QPSK | 1 | 0 | 22.54 | 22.54 | 33 | -10.46 |
| | | | | 1 | 74 | 22.35 | 22.35 | 33 | -10.65 |
| | | | | 36 | 18 | 21.52 | 21.52 | 33 | -11.48 |
| | | | | 75 | 0 | 21.52 | 21.52 | 33 | -11.48 |
| | 40620 | 2593 | QPSK | 1 | 0 | 21.42 | 21.42 | 33 | -11.58 |
| | | | | 1 | 74 | 21.56 | 21.56 | 33 | -11.44 |
| | | | | 36 | 18 | 20.32 | 20.32 | 33 | -12.68 |
| | | | | 75 | 0 | 20.33 | 20.33 | 33 | -12.67 |
| | 41515 | 2682.5 | QPSK | 1 | 0 | 20.54 | 20.54 | 33 | -12.46 |
| | | | | 1 | 74 | 20.34 | 20.34 | 33 | -12.66 |
| | | | | 36 | 18 | 19.44 | 19.44 | 33 | -13.56 |
| | | | | 75 | 0 | 19.56 | 19.56 | 33 | -13.44 |
| 15 | 39725 | 2503.5 | 16QAM | 1 | 0 | 22.63 | 22.63 | 33 | -10.37 |
| | | | | 1 | 74 | 22.84 | 22.84 | 33 | -10.16 |
| | | | | 36 | 18 | 21.82 | 21.82 | 33 | -11.18 |
| | | | | 75 | 0 | 21.62 | 21.62 | 33 | -11.38 |
| | 40620 | 2593 | 16QAM | 1 | 0 | 21.90 | 21.90 | 33 | -11.1 |
| | | | | 1 | 74 | 21.70 | 21.70 | 33 | -11.3 |
| | | | | 36 | 18 | 20.84 | 20.84 | 33 | -12.16 |
| | | | | 75 | 0 | 20.80 | 20.80 | 33 | -12.2 |
| | 41515 | 2682.5 | 16QAM | 1 | 0 | 20.85 | 20.85 | 33 | -12.15 |
| | | | | 1 | 74 | 20.64 | 20.64 | 33 | -12.36 |
| | | | | 36 | 18 | 19.84 | 19.84 | 33 | -13.16 |
| | | | | 75 | 0 | 19.85 | 19.85 | 33 | -13.15 |
| 15 | 39725 | 2503.5 | 64QAM | 1 | 0 | 22.52 | 22.52 | 33 | -10.48 |
| | | | | 1 | 74 | 22.68 | 22.68 | 33 | -10.32 |
| | | | | 36 | 18 | 21.68 | 21.68 | 33 | -11.32 |
| | | | | 75 | 0 | 21.66 | 21.66 | 33 | -11.34 |
| | 40620 | 2593 | 64QAM | 1 | 0 | 21.62 | 21.62 | 33 | -11.38 |
| | | | | 1 | 74 | 21.51 | 21.51 | 33 | -11.49 |
| | | | | 36 | 18 | 20.60 | 20.60 | 33 | -12.4 |
| | | | | 75 | 0 | 20.64 | 20.64 | 33 | -12.36 |
| | 41515 | 2682.5 | 64QAM | 1 | 0 | 20.64 | 20.64 | 33 | -12.36 |
| | | | | 1 | 74 | 20.65 | 20.65 | 33 | -12.35 |
| | | | | 36 | 18 | 19.51 | 19.51 | 33 | -13.49 |
| | | | | 75 | 0 | 19.64 | 19.64 | 33 | -13.36 |

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| Antenna gain (dBi) | | -0.2 | | | | | | | |
|--|------------|-----------------|------------|---------|-----------|-------------------------|--------------------|------------------|-------------|
| LTE Band 41 Uplink frequency band : 2496 to 2690 MHz | | | | | | | | | |
| LTE Band 41_RS199 Uplink frequency band : 2500 to 2690 MHz | | | | | | | | | |
| BW (MHz) | UL Channel | Frequency (MHz) | Modulation | RB Size | RB Offset | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Limit (dBm) | Margin (dB) |
| 20 | 39750 | 2506 | QPSK | 1 | 0 | 22.61 | 22.61 | 33 | -10.39 |
| | | | | 1 | 99 | 22.46 | 22.46 | 33 | -10.54 |
| | | | | 50 | 25 | 21.67 | 21.67 | 33 | -11.33 |
| | | | | 100 | 0 | 21.74 | 21.74 | 33 | -11.26 |
| | 40620 | 2593 | QPSK | 1 | 0 | 21.65 | 21.65 | 33 | -11.35 |
| | | | | 1 | 99 | 21.63 | 21.63 | 33 | -11.37 |
| | | | | 50 | 25 | 20.71 | 20.71 | 33 | -12.29 |
| | | | | 100 | 0 | 20.78 | 20.78 | 33 | -12.22 |
| | 41490 | 2680 | QPSK | 1 | 0 | 20.35 | 20.35 | 33 | -12.65 |
| | | | | 1 | 99 | 20.41 | 20.41 | 33 | -12.59 |
| | | | | 50 | 25 | 19.65 | 19.65 | 33 | -13.35 |
| | | | | 100 | 0 | 19.78 | 19.78 | 33 | -13.22 |
| 20 | 39750 | 2506 | 16QAM | 1 | 0 | 22.95 | 22.95 | 33 | -10.05 |
| | | | | 1 | 99 | 22.91 | 22.91 | 33 | -10.09 |
| | | | | 50 | 25 | 21.95 | 21.95 | 33 | -11.05 |
| | | | | 100 | 0 | 21.92 | 21.92 | 33 | -11.08 |
| | 40620 | 2593 | 16QAM | 1 | 0 | 21.84 | 21.84 | 33 | -11.16 |
| | | | | 1 | 99 | 21.98 | 21.98 | 33 | -11.02 |
| | | | | 50 | 25 | 20.86 | 20.86 | 33 | -12.14 |
| | | | | 100 | 0 | 20.75 | 20.75 | 33 | -12.25 |
| | 41490 | 2680 | 16QAM | 1 | 0 | 20.58 | 20.58 | 33 | -12.42 |
| | | | | 1 | 99 | 20.54 | 20.54 | 33 | -12.46 |
| | | | | 50 | 25 | 19.96 | 19.96 | 33 | -13.04 |
| | | | | 100 | 0 | 19.99 | 19.99 | 33 | -13.01 |
| 20 | 39750 | 2506 | 64QAM | 1 | 0 | 21.75 | 21.75 | 33 | -11.25 |
| | | | | 1 | 99 | 21.48 | 21.48 | 33 | -11.52 |
| | | | | 50 | 25 | 20.91 | 20.91 | 33 | -12.09 |
| | | | | 100 | 0 | 20.67 | 20.67 | 33 | -12.33 |
| | 40620 | 2593 | 64QAM | 1 | 0 | 21.72 | 21.72 | 33 | -11.28 |
| | | | | 1 | 99 | 21.42 | 21.42 | 33 | -11.58 |
| | | | | 50 | 25 | 20.71 | 20.71 | 33 | -12.29 |
| | | | | 100 | 0 | 20.84 | 20.84 | 33 | -12.16 |
| | 41490 | 2680 | 64QAM | 1 | 0 | 20.53 | 20.53 | 33 | -12.47 |
| | | | | 1 | 99 | 20.31 | 20.31 | 33 | -12.69 |
| | | | | 50 | 25 | 19.82 | 19.82 | 33 | -13.18 |
| | | | | 100 | 0 | 19.91 | 19.91 | 33 | -13.09 |

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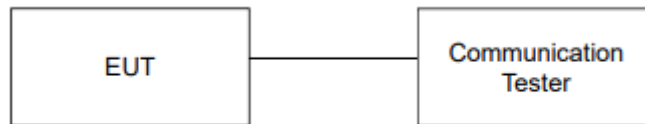
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8 OCCUPIED BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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

8.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

8.3 Measurement Procedure

99% & 26dB Bandwidth with detector peak

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

8.4 Measurement Result

| LTE BAND 2 Channel bandwidth: 1.4MHz | | | | | | | |
|--------------------------------------|-------|--------------|--------|--------|----------------|-------|-------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 1850.7 | 18607 | 1.0859 | 1.0848 | 1.0862 | 1.268 | 1.252 | 1.273 |
| 1880.0 | 18900 | 1.0855 | 1.0863 | 1.0863 | 1.263 | 1.271 | 1.280 |
| 1909.3 | 19193 | 1.0838 | 1.0863 | 1.0866 | 1.256 | 1.268 | 1.288 |

| LTE BAND 2 Channel bandwidth: 3MHz | | | | | | | |
|------------------------------------|-------|--------------|--------|--------|----------------|-------|-------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 1851.5 | 18615 | 2.6839 | 2.6836 | 2.6899 | 2.888 | 2.920 | 2.894 |
| 1880.0 | 18900 | 2.6834 | 2.6803 | 2.6858 | 2.901 | 2.907 | 2.899 |
| 1908.5 | 19185 | 2.6814 | 2.6803 | 2.6879 | 2.913 | 2.902 | 2.890 |

| LTE BAND 2 Channel bandwidth: 5MHz | | | | | | | |
|------------------------------------|-------|--------------|--------|--------|----------------|-------|-------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 1852.5 | 18625 | 4.4835 | 4.4789 | 4.4888 | 4.921 | 4.929 | 4.894 |
| 1880.0 | 18900 | 4.4865 | 4.4811 | 4.4876 | 4.908 | 4.897 | 4.929 |
| 1907.5 | 19175 | 4.4795 | 4.4733 | 4.4907 | 4.926 | 4.904 | 4.919 |

| LTE BAND 2 Channel bandwidth: 10MHz | | | | | | | |
|-------------------------------------|-------|--------------|--------|--------|----------------|-------|-------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 1855.0 | 18650 | 8.9671 | 8.9450 | 8.9556 | 9.682 | 9.652 | 9.716 |
| 1880.0 | 18900 | 8.9709 | 8.9302 | 8.9494 | 9.749 | 9.620 | 9.898 |
| 1905.0 | 19150 | 8.9745 | 8.9292 | 8.9506 | 9.677 | 9.621 | 9.680 |

| LTE BAND 2 Channel bandwidth: 15MHz | | | | | | | |
|-------------------------------------|-------|--------------|--------|--------|----------------|-------|-------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 1857.5 | 18675 | 13.468 | 13.432 | 13.397 | 14.44 | 14.60 | 14.53 |
| 1880.0 | 18900 | 13.436 | 13.429 | 13.402 | 14.47 | 14.63 | 14.49 |
| 1902.5 | 19125 | 13.399 | 13.400 | 13.402 | 14.43 | 14.50 | 14.51 |

| LTE BAND 2 Channel bandwidth: 20MHz | | | | | | | |
|-------------------------------------|-------|--------------|--------|--------|----------------|-------|-------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 1860.0 | 18700 | 17.869 | 17.895 | 17.863 | 19.16 | 19.16 | 19.16 |
| 1880.0 | 18900 | 17.879 | 17.908 | 17.905 | 19.22 | 19.18 | 19.23 |
| 1900.0 | 19100 | 17.842 | 17.877 | 17.874 | 19.41 | 19.11 | 19.24 |

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| LTE BAND 4 Channel bandwidth: 1.4MHz | | | | | | | |
|--------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 1710.7 | 19957 | 1.0850 | 1.0828 | 1.0872 | 1.264 | 1.260 | 1.278 |
| 1732.5 | 20175 | 1.0853 | 1.0845 | 1.0859 | 1.253 | 1.264 | 1.266 |
| 1754.3 | 20393 | 1.0857 | 1.0862 | 1.0866 | 1.267 | 1.267 | 1.272 |

| LTE BAND 4 Channel bandwidth: 3MHz | | | | | | | |
|------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 1711.5 | 19965 | 2.6847 | 2.6847 | 2.6887 | 2.891 | 2.910 | 2.889 |
| 1732.5 | 20175 | 2.6806 | 2.6849 | 2.6882 | 2.893 | 2.915 | 2.906 |
| 1753.5 | 20385 | 2.6832 | 2.6849 | 2.6859 | 2.897 | 2.906 | 2.892 |

| LTE BAND 4 Channel bandwidth: 5MHz | | | | | | | |
|------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 1712.5 | 19975 | 4.4841 | 4.4815 | 4.4921 | 4.909 | 4.885 | 4.900 |
| 1732.5 | 20175 | 4.4789 | 4.4855 | 4.4829 | 4.927 | 4.942 | 4.889 |
| 1752.5 | 20375 | 4.4854 | 4.4810 | 4.4925 | 4.926 | 4.922 | 4.935 |

| LTE BAND 4 Channel bandwidth: 10MHz | | | | | | | |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 1715.0 | 20000 | 8.9672 | 8.9300 | 8.9491 | 9.685 | 9.606 | 9.735 |
| 1732.5 | 20175 | 8.9595 | 8.9503 | 8.9585 | 9.665 | 9.624 | 9.732 |
| 1750.0 | 20350 | 8.9618 | 8.9368 | 8.9463 | 9.691 | 9.636 | 9.908 |

| LTE BAND 4 Channel bandwidth: 15MHz | | | | | | | |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 1717.5 | 20025 | 13.446 | 13.430 | 13.425 | 14.49 | 14.55 | 14.50 |
| 1732.5 | 20175 | 13.426 | 13.423 | 13.424 | 14.41 | 14.45 | 14.47 |
| 1747.5 | 20325 | 13.444 | 13.408 | 13.379 | 14.49 | 14.48 | 14.47 |

| LTE BAND 4 Channel bandwidth: 20MHz | | | | | | | |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 1720.0 | 20050 | 17.914 | 17.949 | 17.918 | 19.24 | 19.27 | 19.17 |
| 1732.5 | 20175 | 17.863 | 17.877 | 17.884 | 19.17 | 19.20 | 19.30 |
| 1745.0 | 20300 | 17.827 | 17.842 | 17.821 | 19.16 | 19.09 | 19.14 |

| LTE BAND 5 Channel bandwidth: 1.4MHz | | | | | | | |
|--------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 824.7 | 20407 | 1.0858 | 1.0876 | 1.0860 | 1.257 | 1.272 | 1.280 |
| 836.5 | 20525 | 1.0856 | 1.0853 | 1.0851 | 1.259 | 1.267 | 1.268 |
| 848.3 | 20643 | 1.0856 | 1.0875 | 1.0863 | 1.250 | 1.275 | 1.285 |

| LTE BAND 5 Channel bandwidth: 3MHz | | | | | | | |
|------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 825.5 | 20415 | 2.6825 | 2.6822 | 2.6895 | 2.908 | 2.894 | 2.898 |
| 836.5 | 20525 | 2.6825 | 2.6836 | 2.6883 | 2.908 | 2.912 | 2.898 |
| 847.5 | 20635 | 2.6786 | 2.6808 | 2.6799 | 2.898 | 2.895 | 2.885 |

| LTE BAND 5 Channel bandwidth: 5MHz | | | | | | | |
|------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 826.5 | 20425 | 4.4820 | 4.4872 | 4.4926 | 4.936 | 4.940 | 4.896 |
| 836.5 | 20525 | 4.4784 | 4.4804 | 4.4754 | 4.914 | 4.904 | 4.874 |
| 846.5 | 20625 | 4.4743 | 4.4751 | 4.4782 | 4.905 | 4.877 | 4.916 |

| LTE BAND 5 Channel bandwidth: 10MHz | | | | | | | |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 829.0 | 20450 | 8.9710 | 8.9574 | 8.9739 | 9.789 | 9.705 | 9.754 |
| 836.5 | 20525 | 8.9524 | 8.9229 | 8.9220 | 9.698 | 9.584 | 9.667 |
| 844.0 | 20600 | 8.9741 | 8.9442 | 8.9511 | 9.717 | 9.642 | 9.744 |

| LTE BAND 12 Channel bandwidth: 1.4MHz | | | | | | | |
|---------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 699.7 | 23017 | 1.0853 | 1.0876 | 1.0855 | 1.256 | 1.270 | 1.273 |
| 707.5 | 23095 | 1.0857 | 1.0836 | 1.0858 | 1.260 | 1.260 | 1.259 |
| 715.3 | 23173 | 1.0858 | 1.0860 | 1.0858 | 1.262 | 1.263 | 1.260 |

| LTE BAND 12 Channel bandwidth: 3MHz | | | | | | | |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 700.5 | 23025 | 2.6828 | 2.6846 | 2.6873 | 2.904 | 2.913 | 2.899 |
| 707.5 | 23095 | 2.6818 | 2.6802 | 2.6849 | 2.895 | 2.912 | 2.897 |
| 714.5 | 23165 | 2.6820 | 2.6815 | 2.6886 | 2.897 | 2.924 | 2.906 |

| LTE BAND 12 Channel bandwidth: 5MHz | | | | | | | |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 701.5 | 23035 | 4.4822 | 4.4894 | 4.4865 | 5.011 | 4.922 | 4.927 |
| 707.5 | 23095 | 4.4789 | 4.4771 | 4.4794 | 4.913 | 4.889 | 4.911 |
| 713.5 | 23155 | 4.4848 | 4.4899 | 4.4986 | 4.943 | 4.913 | 4.916 |

| LTE BAND 12 Channel bandwidth: 10MHz | | | | | | | |
|--------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 704.0 | 23060 | 8.9749 | 8.9406 | 8.9653 | 9.723 | 9.656 | 9.733 |
| 707.5 | 23095 | 8.9479 | 8.9190 | 8.9214 | 9.625 | 9.608 | 9.634 |
| 711.0 | 23130 | 8.9619 | 8.9348 | 8.9482 | 9.674 | 9.665 | 9.636 |

| LTE BAND 17 Channel bandwidth: 5MHz | | | | | | | |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 706.5 | 23755 | 4.4774 | 4.4793 | 4.4810 | 4.914 | 4.904 | 4.902 |
| 710.0 | 23790 | 4.4780 | 4.4817 | 4.4881 | 4.920 | 4.882 | 4.868 |
| 713.5 | 23825 | 4.4864 | 4.4896 | 4.4922 | 4.923 | 4.926 | 4.897 |

| LTE BAND 17 Channel bandwidth: 10MHz | | | | | | | |
|--------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 709.0 | 23780 | 8.9400 | 8.9103 | 8.9274 | 9.670 | 9.619 | 9.666 |
| 710.0 | 23790 | 8.9553 | 8.9254 | 8.9432 | 9.658 | 9.661 | 9.693 |
| 711.0 | 23800 | 8.9630 | 8.9425 | 8.9643 | 9.738 | 9.689 | 9.736 |

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| LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz | | | | | | | |
|--|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 814.7 | 26697 | 1.0858 | 1.0886 | 1.0861 | 1.248 | 1.266 | 1.272 |
| 819.0 | 26740 | 1.0847 | 1.0842 | 1.0864 | 1.253 | 1.256 | 1.271 |
| 823.3 | 26783 | 1.0820 | 1.0874 | 1.0850 | 1.266 | 1.262 | 1.257 |

| LTE BAND 26 for part 90S Channel bandwidth: 3MHz | | | | | | | |
|--|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 815.5 | 26705 | 2.6803 | 2.6858 | 2.6862 | 2.891 | 2.905 | 2.900 |
| 819.0 | 26740 | 2.6805 | 2.6814 | 2.6863 | 2.896 | 2.903 | 2.892 |
| 822.5 | 26775 | 2.6832 | 2.6833 | 2.6861 | 2.907 | 2.899 | 2.895 |

| LTE BAND 26 for part 90S Channel bandwidth: 5MHz | | | | | | | |
|--|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 816.5 | 26715 | 4.4771 | 4.4839 | 4.4860 | 4.910 | 4.911 | 4.947 |
| 819.0 | 26740 | 4.4737 | 4.4642 | 4.4885 | 4.896 | 4.877 | 4.864 |
| 821.5 | 26765 | 4.4819 | 4.4827 | 4.4858 | 5.131 | 4.922 | 4.903 |

| LTE BAND 26 for part 90S Channel bandwidth: 10MHz | | | | | | | |
|---|-------|---------------|---------------|---------------|----------------|--------------|---------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 819.0 | 26740 | 8.9376 | 8.9078 | 8.9294 | 9.647 | 9.626 | 11.040 |

| LTE BAND 26 Channel bandwidth: 1.4MHz | | | | | | | |
|---------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 824.7 | 26797 | 1.0861 | 1.0862 | 1.0858 | 1.268 | 1.271 | 1.280 |
| 836.5 | 26915 | 1.0855 | 1.0853 | 1.0868 | 1.262 | 1.266 | 1.271 |
| 848.3 | 27033 | 1.0856 | 1.0866 | 1.0855 | 1.250 | 1.276 | 1.292 |

| LTE BAND 26 Channel bandwidth: 3MHz | | | | | | | |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 825.5 | 26805 | 2.6932 | 2.6836 | 2.6897 | 2.912 | 2.903 | 2.906 |
| 836.5 | 26915 | 2.6821 | 2.6820 | 2.6874 | 2.894 | 2.914 | 2.894 |
| 847.5 | 27025 | 2.6797 | 2.6765 | 2.6832 | 2.898 | 2.908 | 2.880 |

| LTE BAND 26 Channel bandwidth: 5MHz | | | | | | | |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 826.5 | 26815 | 4.4820 | 4.4860 | 4.4941 | 4.937 | 4.938 | 4.919 |
| 836.5 | 26915 | 4.4745 | 4.4772 | 4.4909 | 4.900 | 4.872 | 4.892 |
| 846.5 | 27015 | 4.4789 | 4.4775 | 4.4764 | 4.860 | 4.877 | 4.885 |

| LTE BAND 26 Channel bandwidth: 10MHz | | | | | | | |
|--------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 829.0 | 26840 | 8.9888 | 8.9594 | 8.9777 | 9.762 | 9.690 | 9.784 |
| 836.5 | 26915 | 8.9563 | 8.9194 | 8.9304 | 9.643 | 9.666 | 9.691 |
| 844.0 | 26990 | 8.9648 | 8.9442 | 8.9570 | 9.680 | 9.658 | 9.744 |

| LTE BAND 26 Channel bandwidth: 15MHz | | | | | | | |
|--------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 831.5 | 26865 | 13.462 | 13.442 | 13.435 | 14.47 | 14.62 | 14.56 |
| 836.5 | 26915 | 13.384 | 13.382 | 13.372 | 14.46 | 14.53 | 14.56 |
| 841.5 | 26965 | 13.428 | 13.405 | 13.400 | 14.43 | 14.53 | 14.43 |

| LTE BAND 41 Channel bandwidth: 5MHz | | | | | | | |
|-------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 2498.5 | 39675 | 4.4808 | 4.4874 | 4.4919 | 4.912 | 5.006 | 4.881 |
| 2593.0 | 40620 | 4.4765 | 4.4900 | 4.4930 | 4.914 | 4.940 | 4.877 |
| 2687.5 | 41565 | 4.4722 | 4.4856 | 4.4857 | 4.903 | 5.025 | 4.884 |

| LTE BAND 41 Channel bandwidth: 10MHz | | | | | | | |
|--------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|---------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 2501.0 | 39700 | 8.9212 | 8.9970 | 8.9446 | 9.499 | 9.359 | 9.438 |
| 2593.0 | 40620 | 8.9694 | 8.9387 | 8.9558 | 9.705 | 9.593 | 10.010 |
| 2685.0 | 41540 | 8.9567 | 8.9433 | 8.9594 | 9.671 | 9.992 | 10.090 |

| LTE BAND 41 Channel bandwidth: 15MHz | | | | | | | |
|--------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 2503.5 | 39725 | 13.446 | 13.439 | 13.425 | 14.75 | 15.73 | 14.51 |
| 2593.0 | 40620 | 13.468 | 13.426 | 13.412 | 14.52 | 15.66 | 14.88 |
| 2682.5 | 41515 | 13.475 | 13.410 | 13.407 | 15.06 | 14.55 | 14.48 |

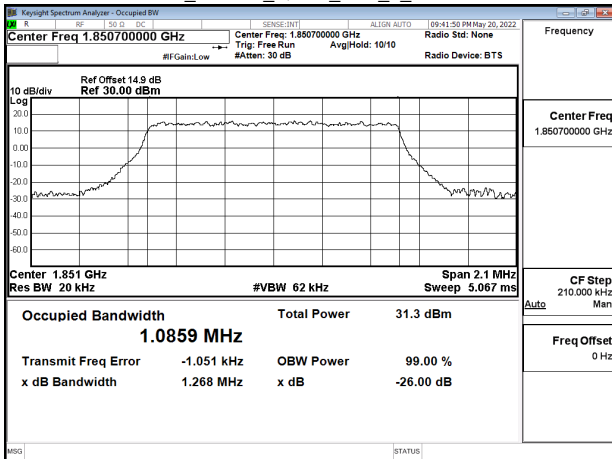
| LTE BAND 41 Channel bandwidth: 20MHz | | | | | | | |
|--------------------------------------|-------|---------------|---------------|---------------|----------------|--------------|--------------|
| Freq. (MHz) | CH | 99% BW (MHz) | | | 26 dB BW (MHz) | | |
| | | QPSK | 16QAM | 64QAM | QPSK | 16QAM | 64QAM |
| 2506.0 | 39750 | 17.899 | 17.914 | 17.894 | 19.97 | 20.15 | 19.72 |
| 2593.0 | 40620 | 17.900 | 17.874 | 17.867 | 19.60 | 19.95 | 19.36 |
| 2680.0 | 41490 | 17.847 | 17.880 | 17.878 | 19.65 | 19.44 | 19.15 |

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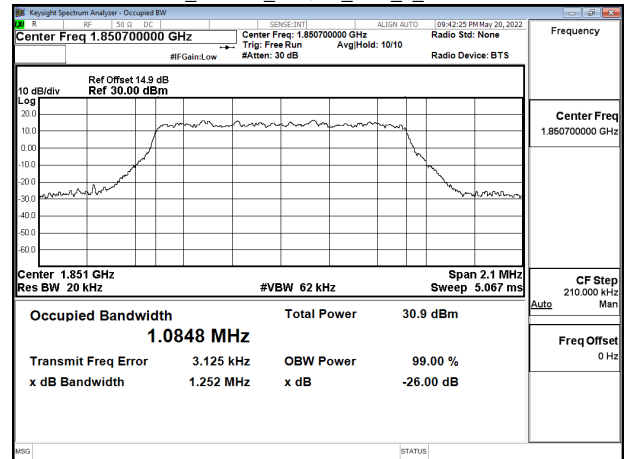
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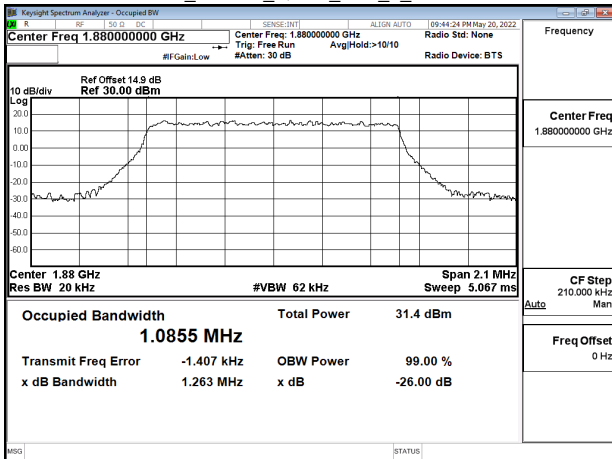
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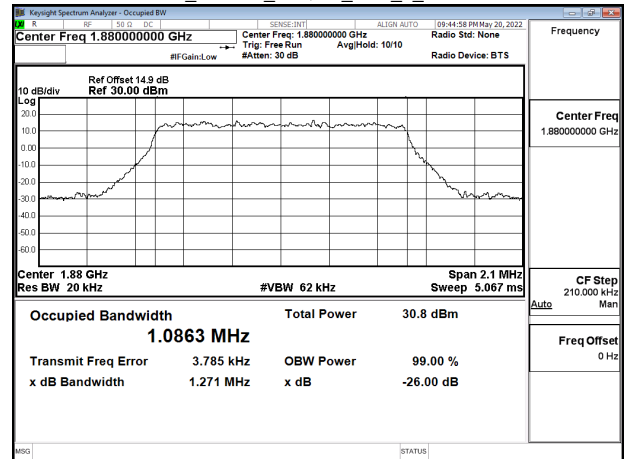
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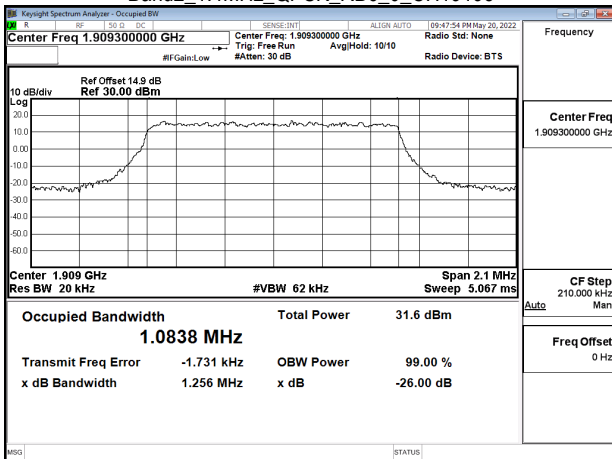
Band2_1.4MHz_QPSK_RB6_0_CH18900



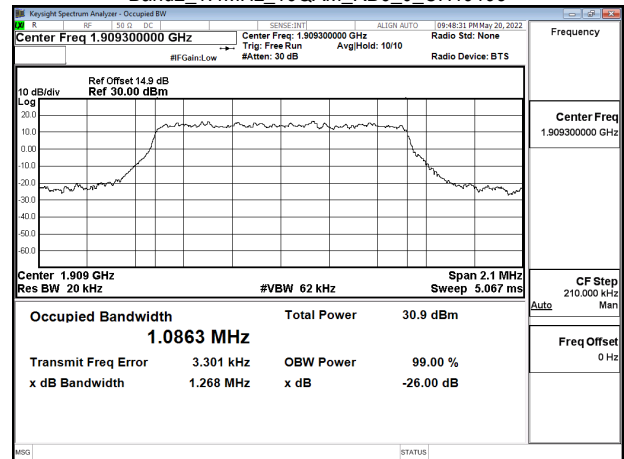
Band2_1.4MHz_16QAM_RB6_0_CH18900



Band2_1.4MHz_QPSK_RB6_0_CH19193



Band2_1.4MHz_16QAM_RB6_0_CH19193

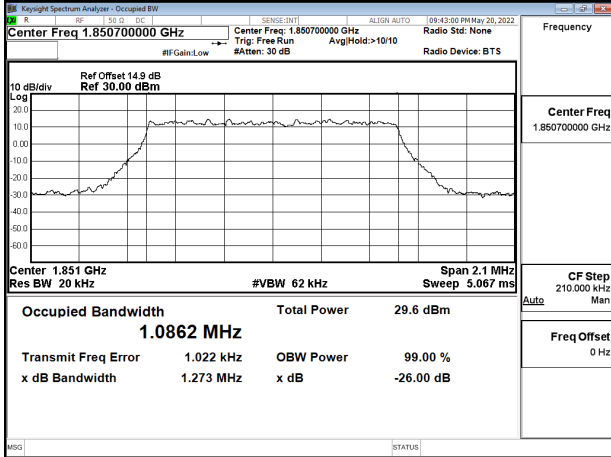


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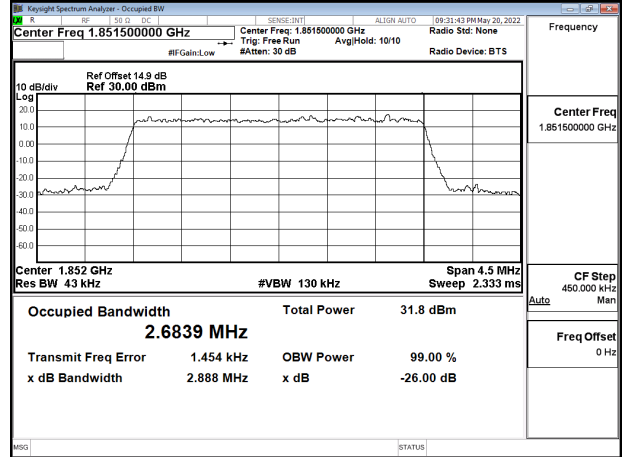
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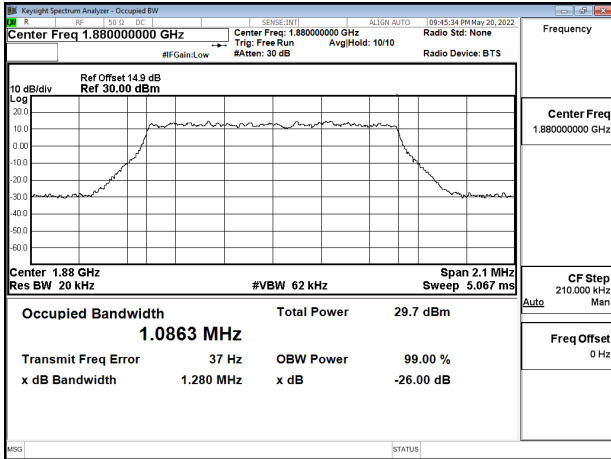
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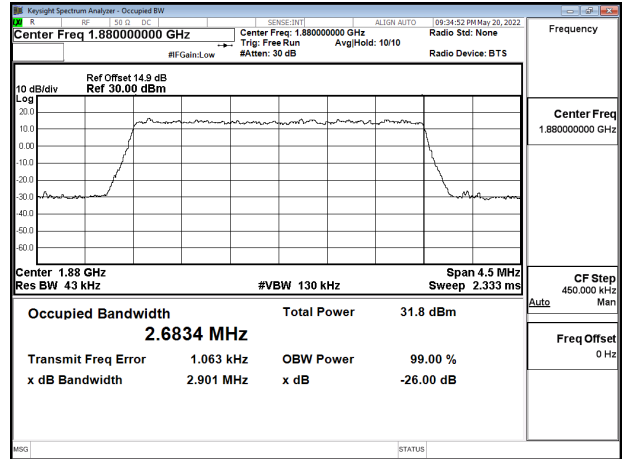
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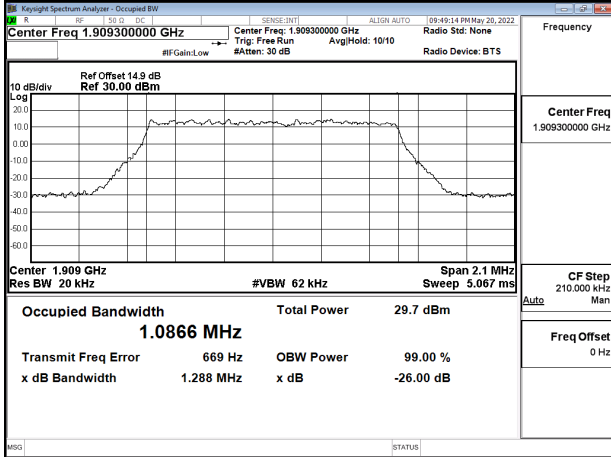
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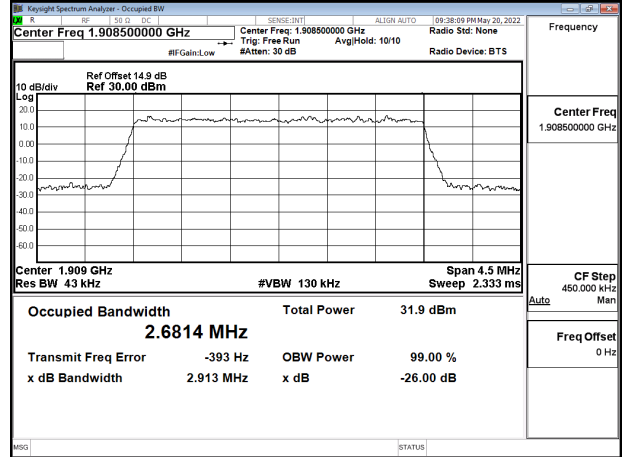
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Band2_1.4MHz_64QAM_RB6_0_CH19193



Band2_3MHz_QPSK_RB15_0_CH19185

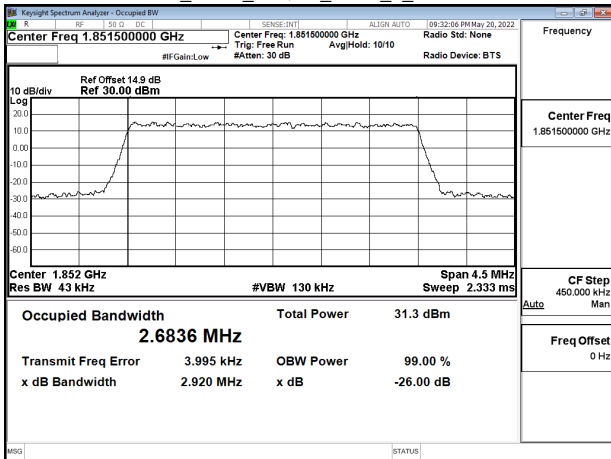


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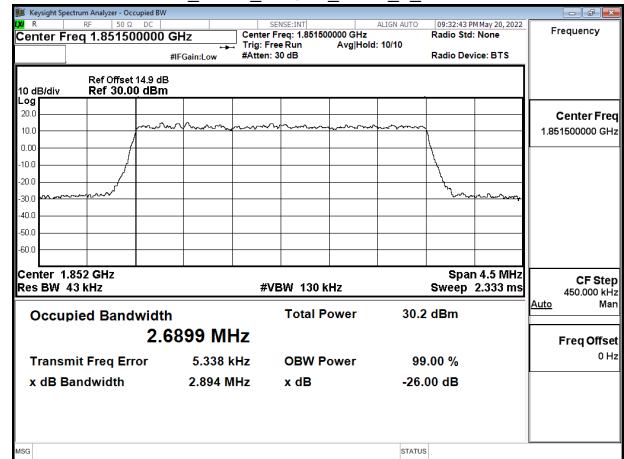
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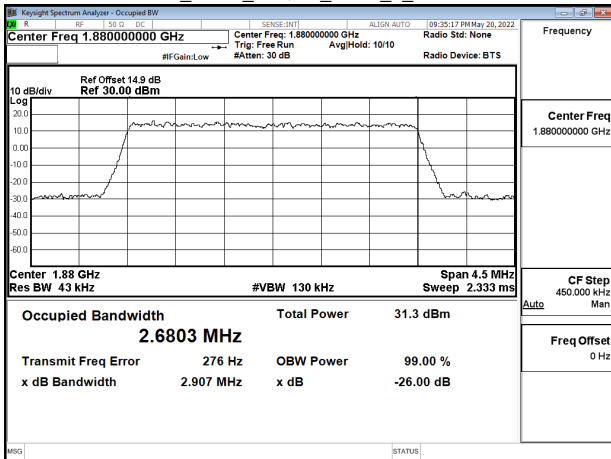
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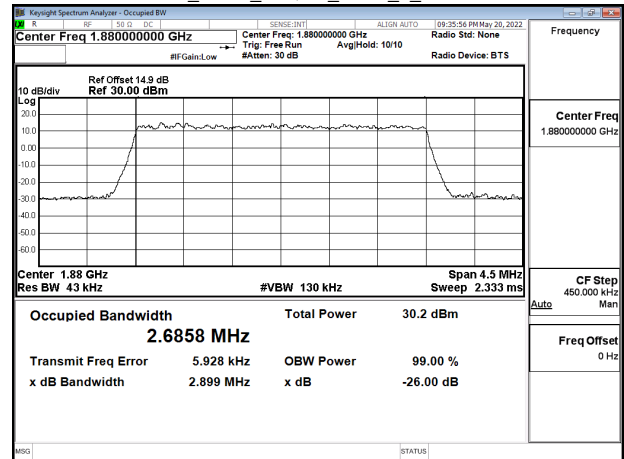
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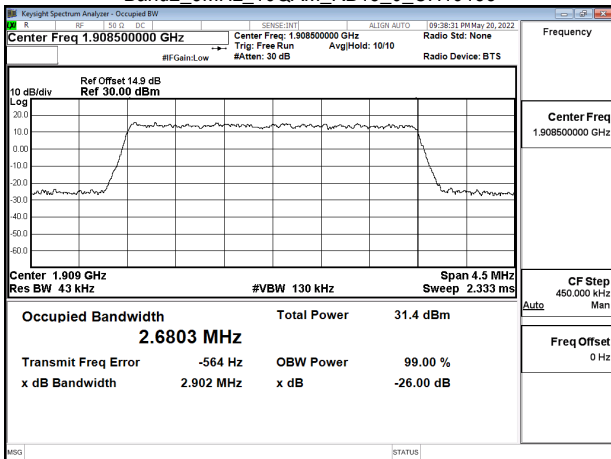
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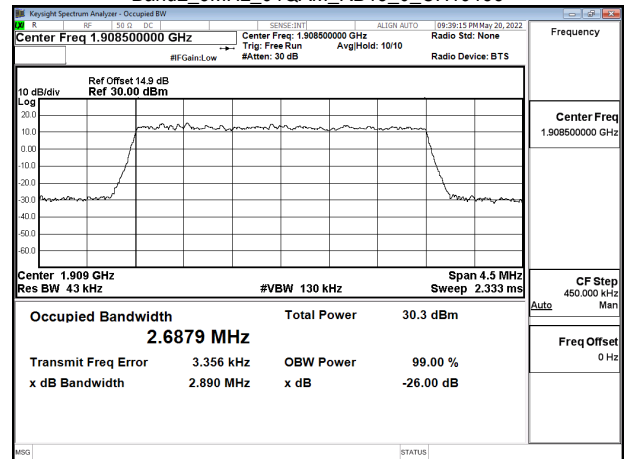
Band2_3MHz_64QAM_RB15_0_CH18900



Band2_3MHz_16QAM_RB15_0_CH19185



Band2_3MHz_64QAM_RB15_0_CH19185

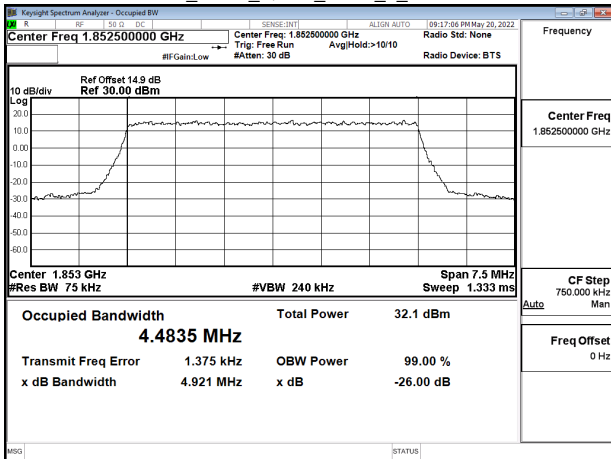


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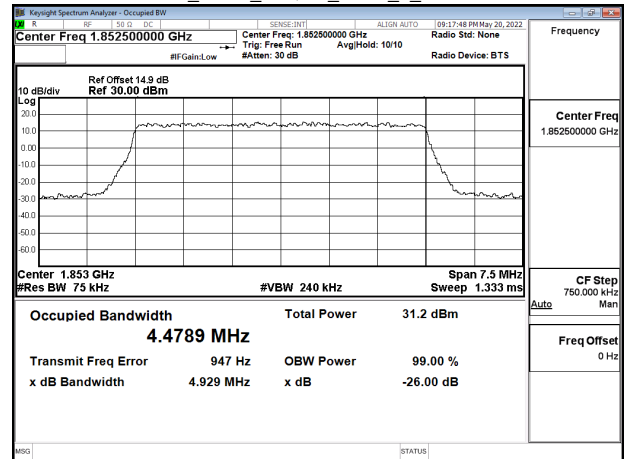
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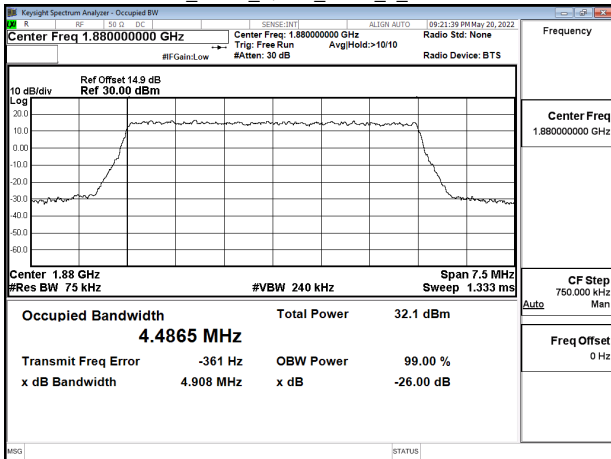
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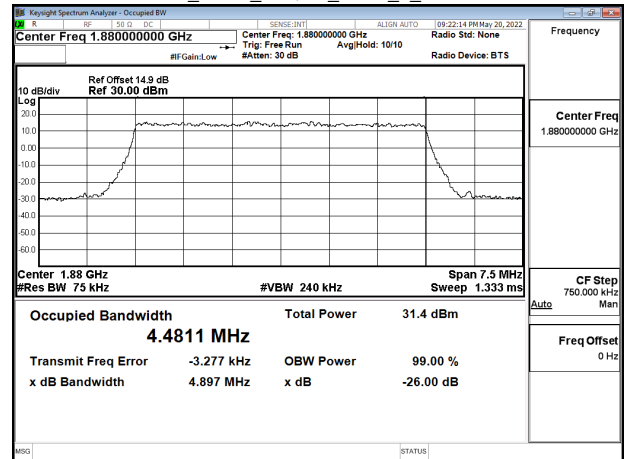
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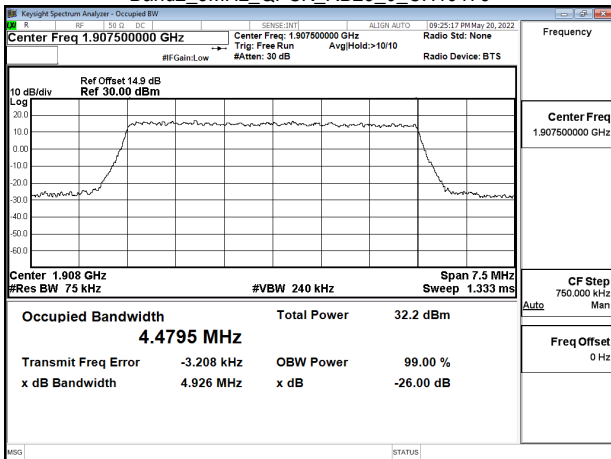
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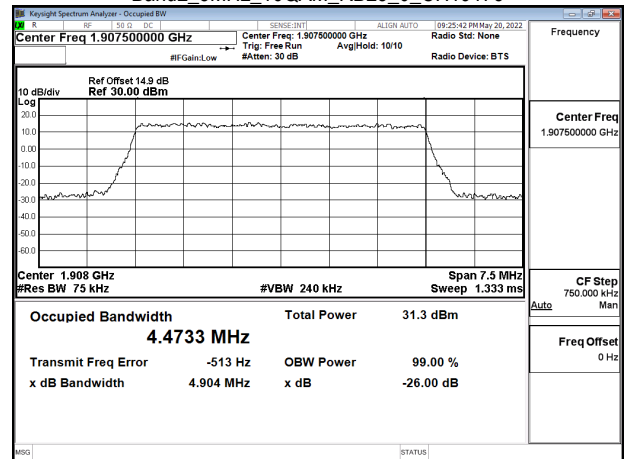
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Band2_5MHz_QPSK_RB25_0_CH19175



Band2_5MHz_16QAM_RB25_0_CH19175

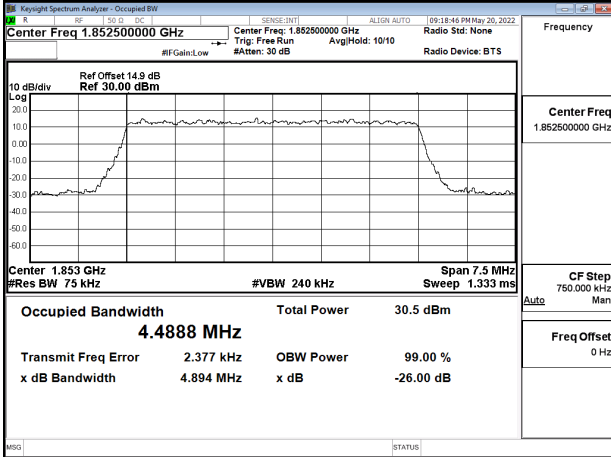


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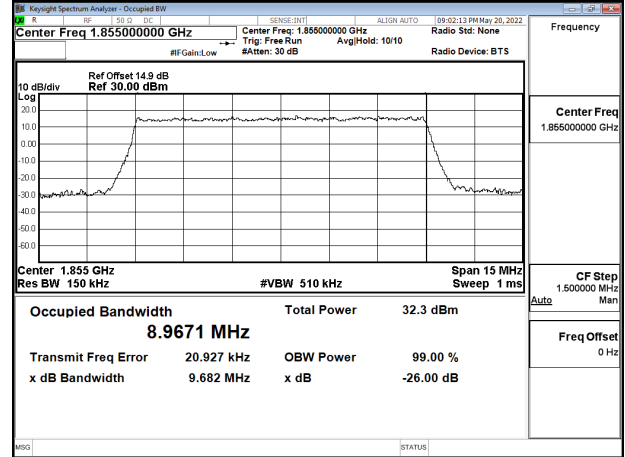
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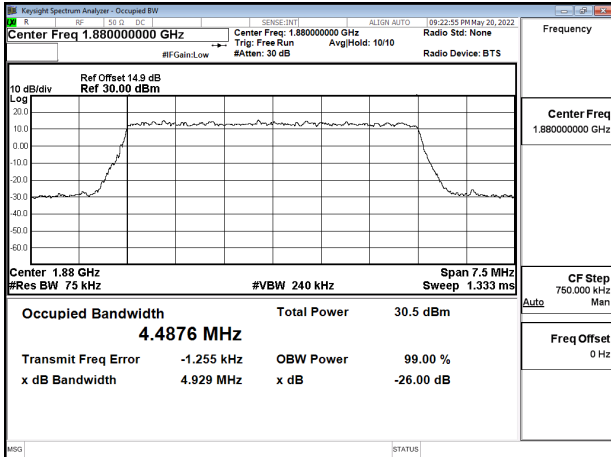
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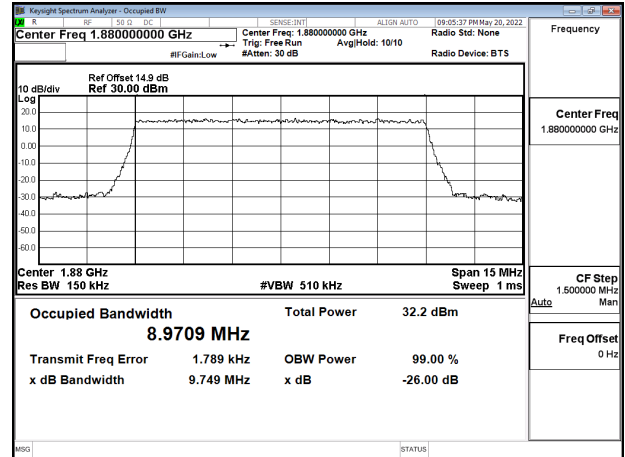
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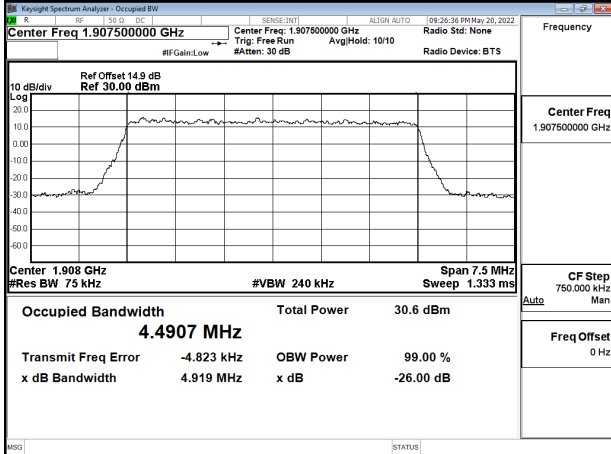
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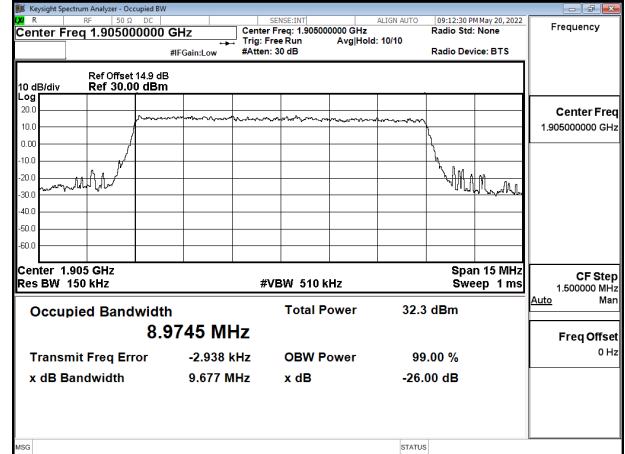
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Band2_5MHz_64QAM_RB25_0_CH19175



Band2_10MHz_QPSK_RB50_0_CH19150

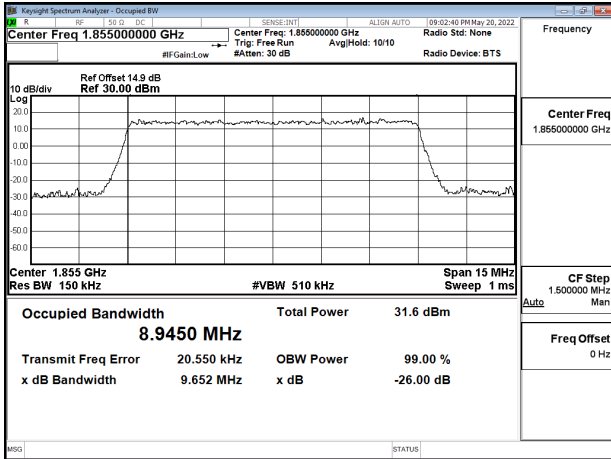


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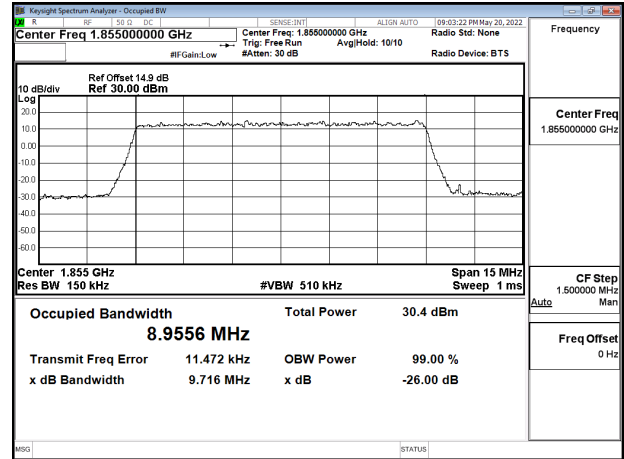
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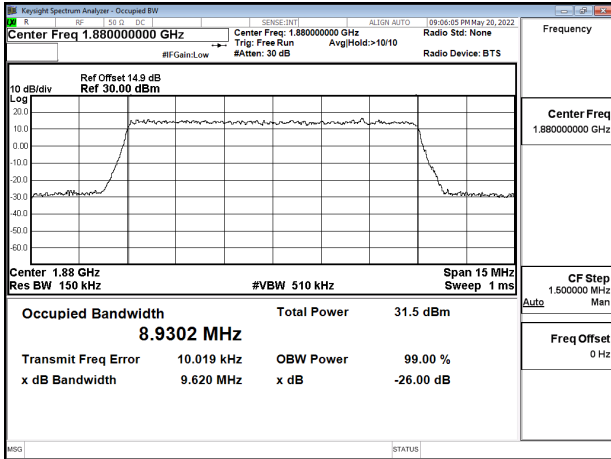
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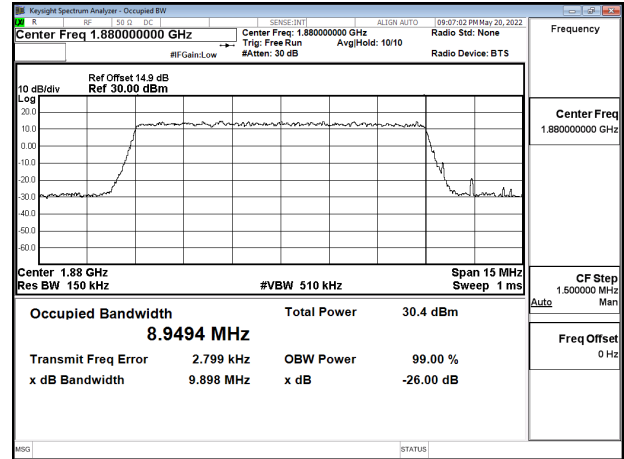
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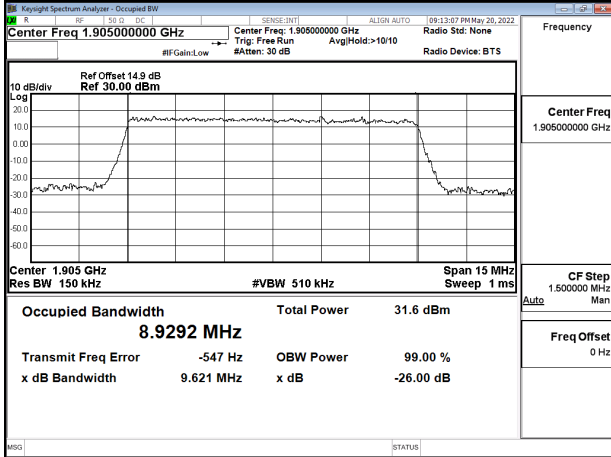
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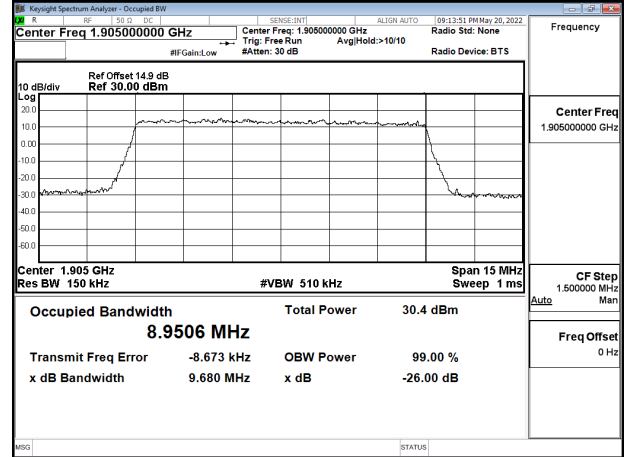
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Band2_10MHz_16QAM_RB50_0_CH19150



Band2_10MHz_64QAM_RB50_0_CH19150

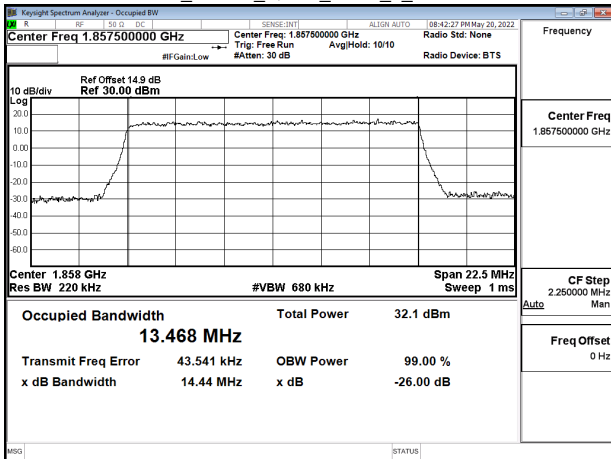


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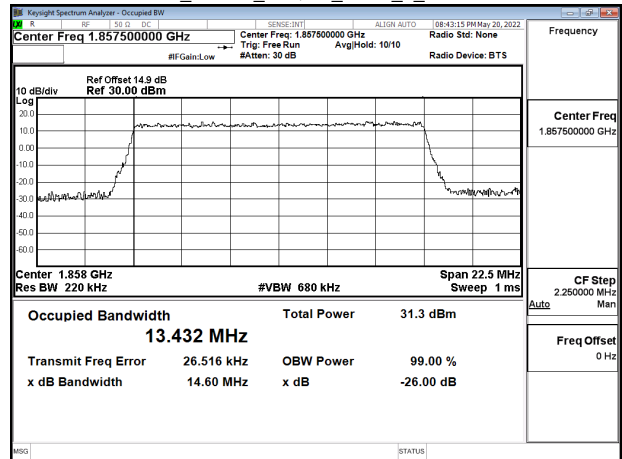
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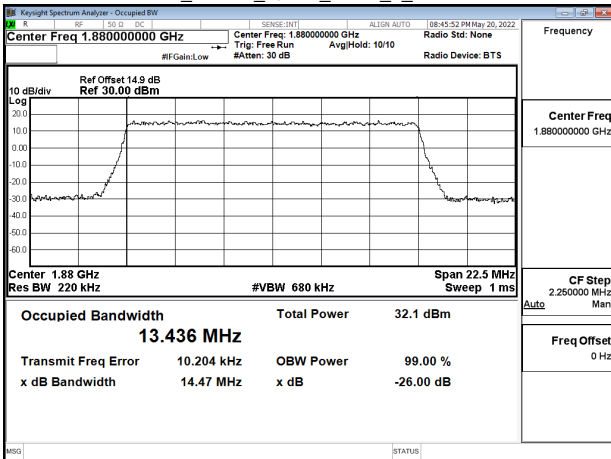
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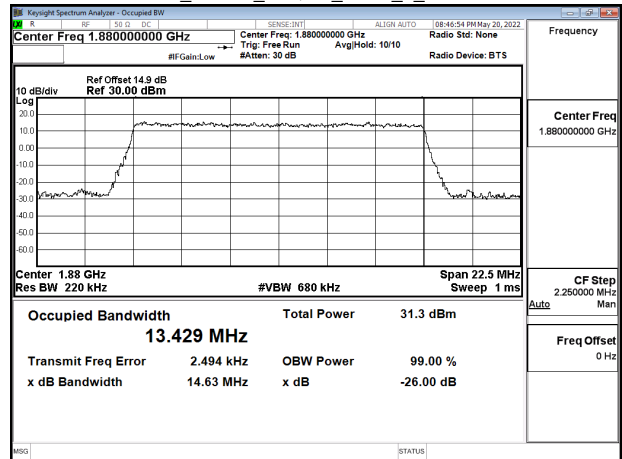
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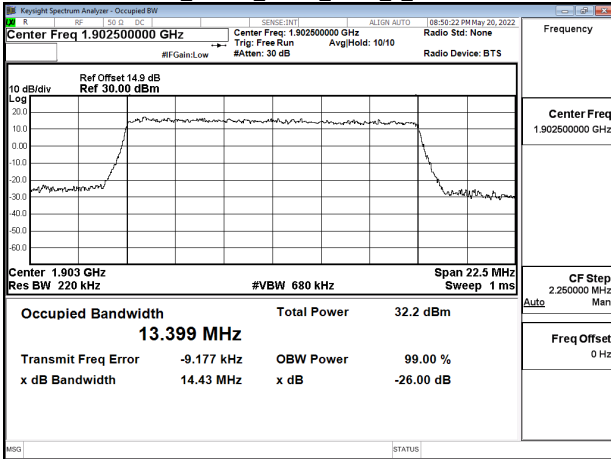
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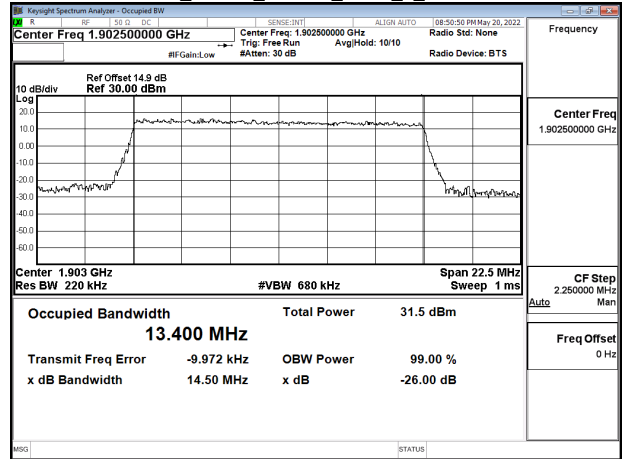
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Band2_15MHz_QPSK_RB75_0_CH19125



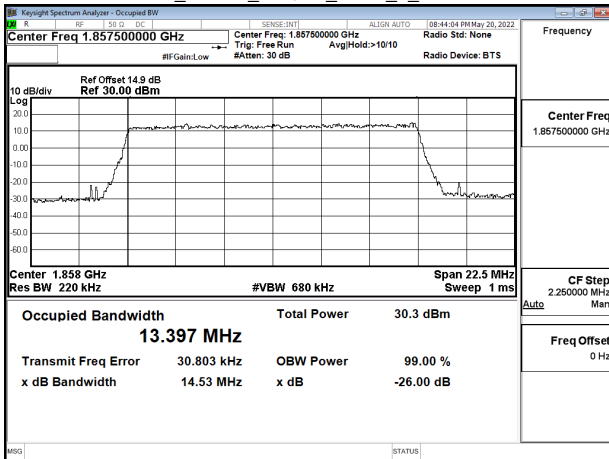
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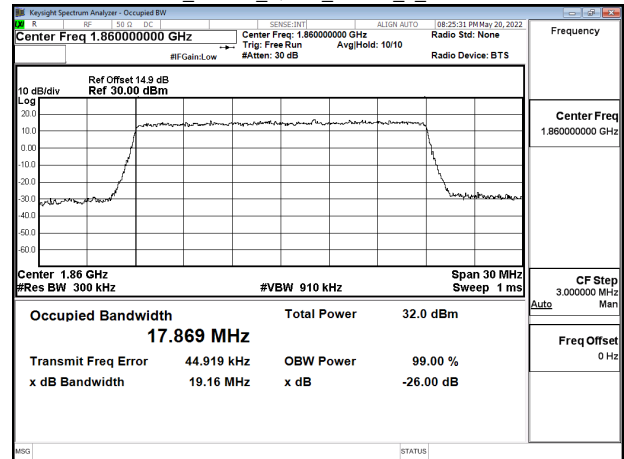
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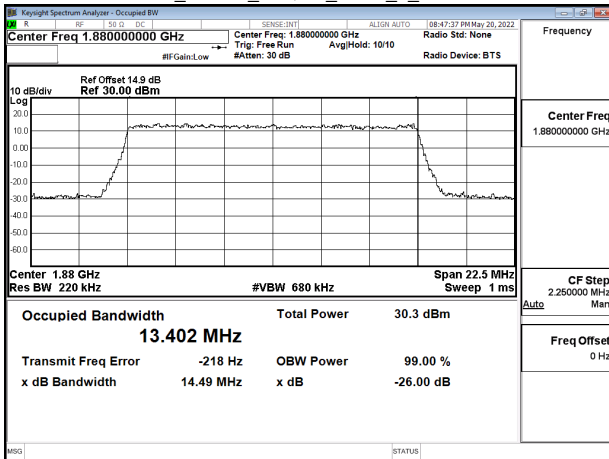
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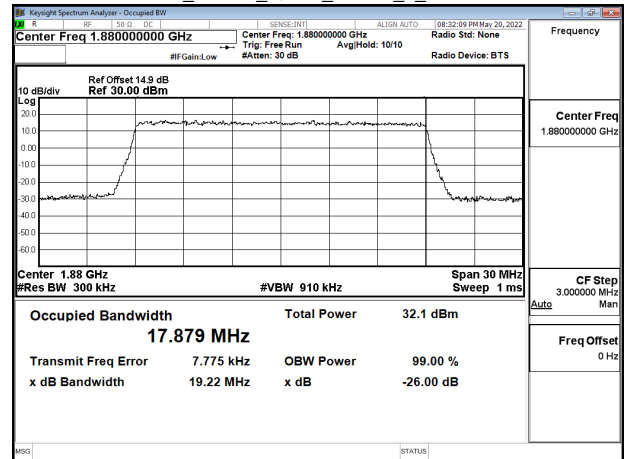
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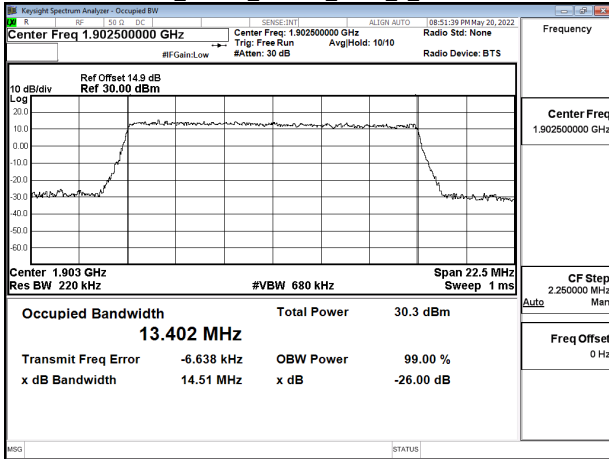
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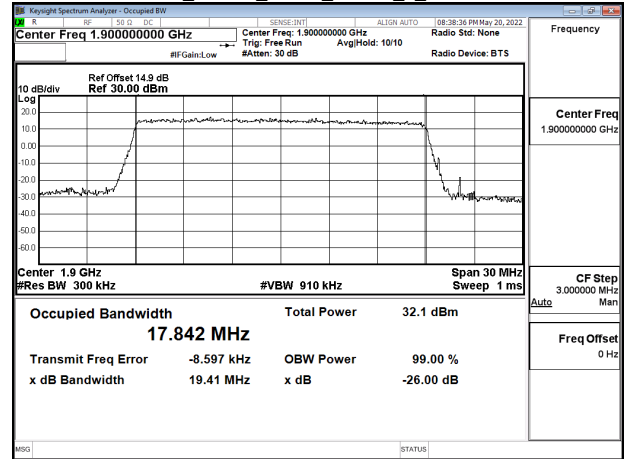
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Band2_15MHz_64QAM_RB75_0_CH19125



Band2_20MHz_QPSK_RB100_0_CH19100

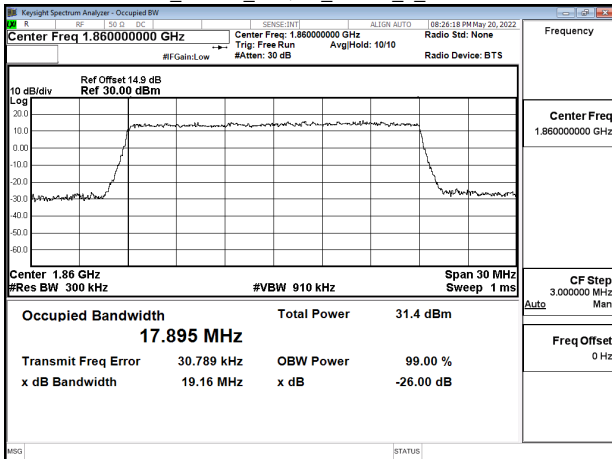


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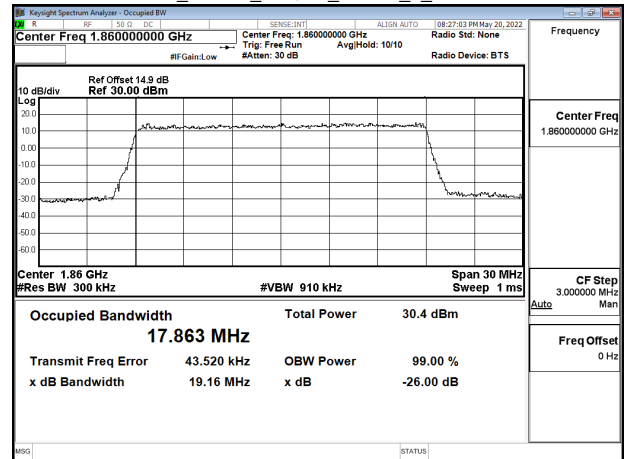
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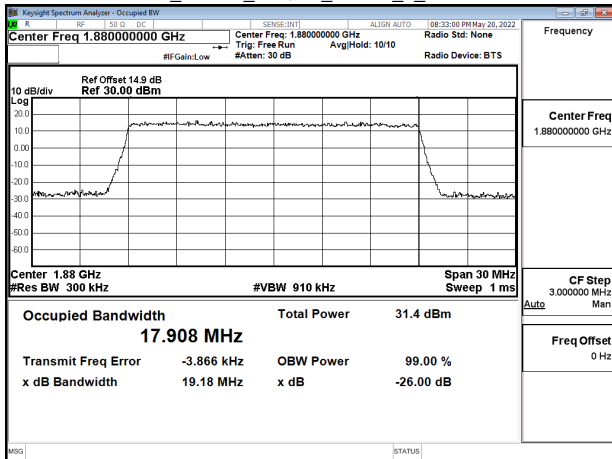
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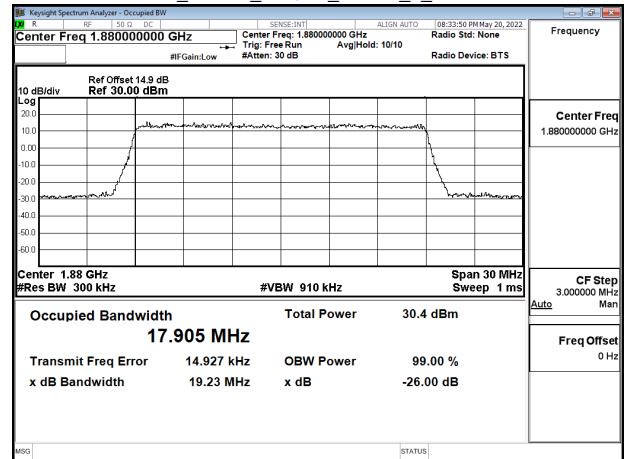
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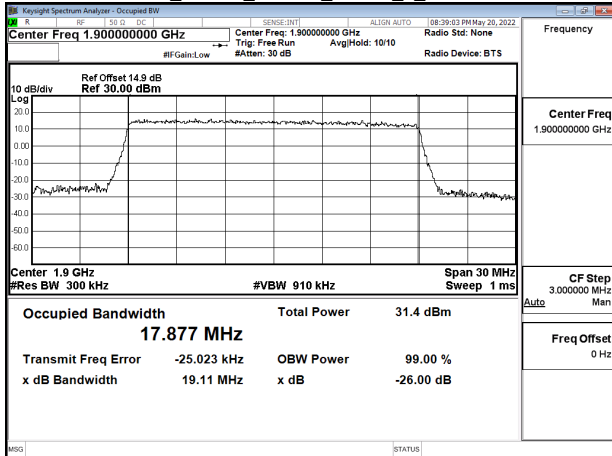
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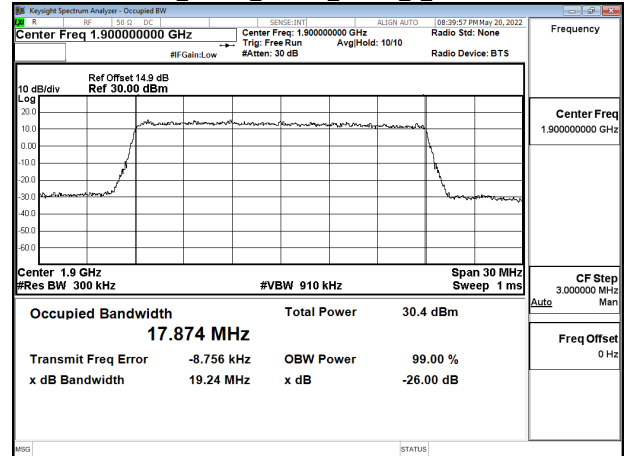
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Band2_20MHz_16QAM_RB100_0_CH19100



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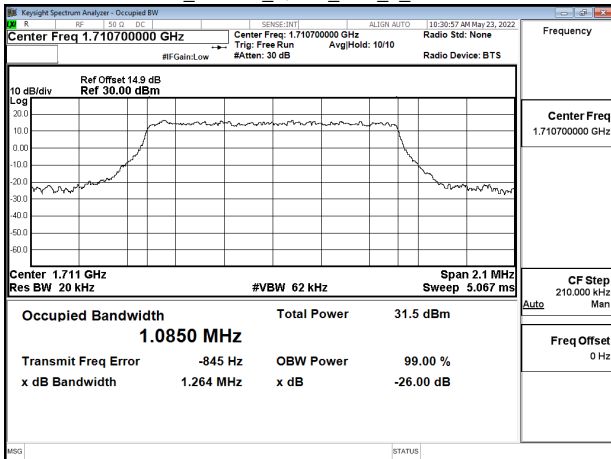


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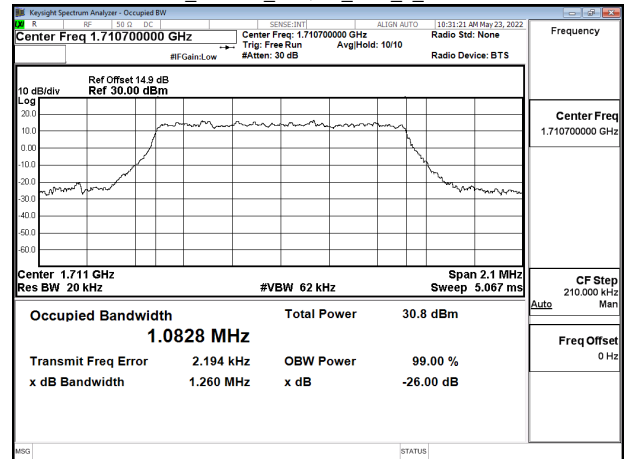
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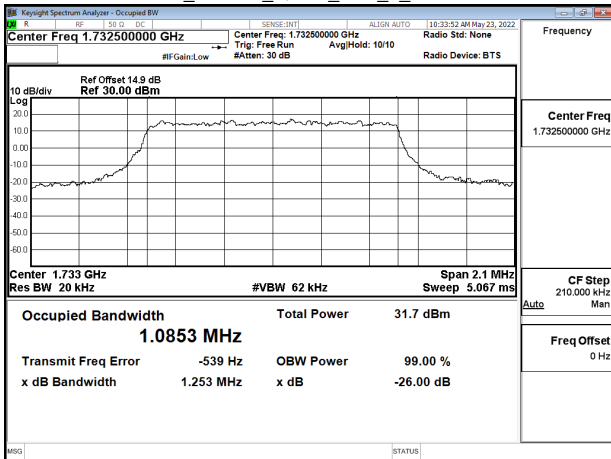
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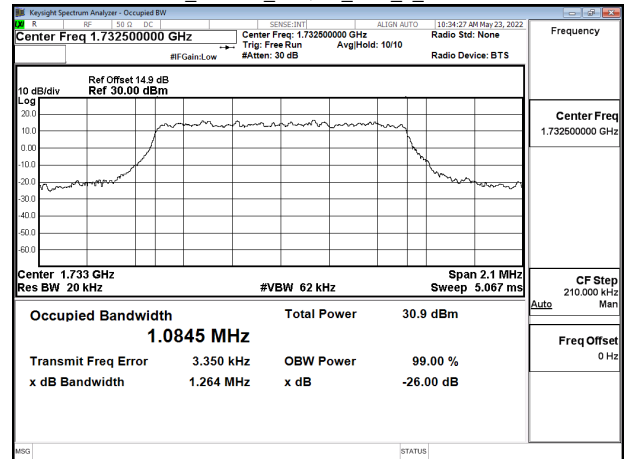
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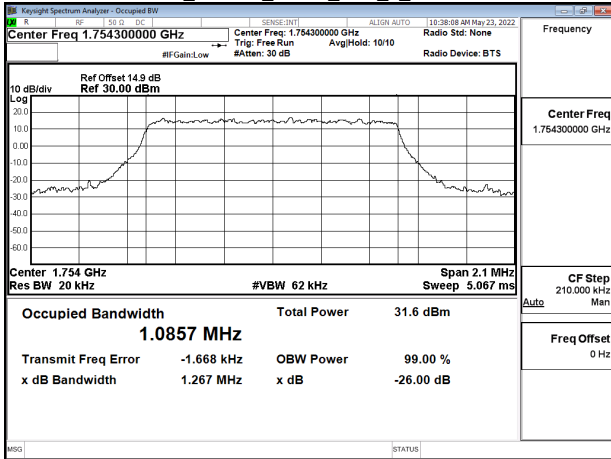
Band4_1.4MHz_QPSK_RB6_0_CH20175



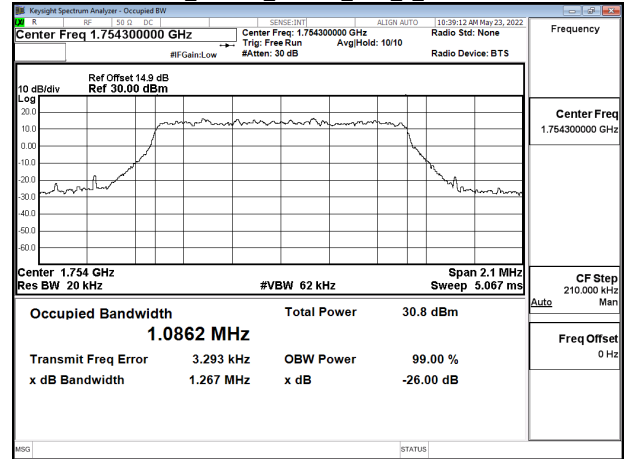
Band4_1.4MHz_16QAM_RB6_0_CH20175



Band4_1.4MHz_QPSK_RB6_0_CH20393



Band4_1.4MHz_16QAM_RB6_0_CH20393

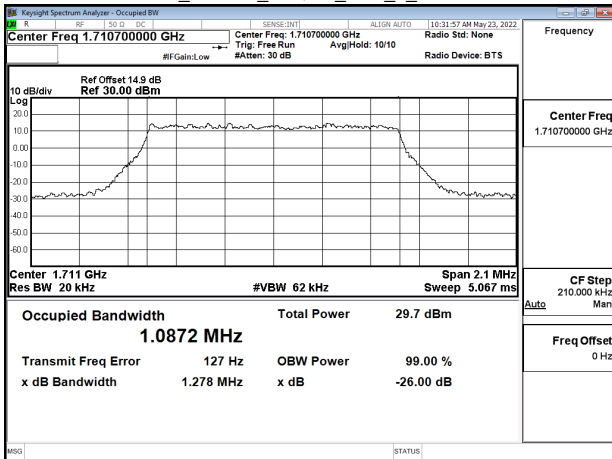


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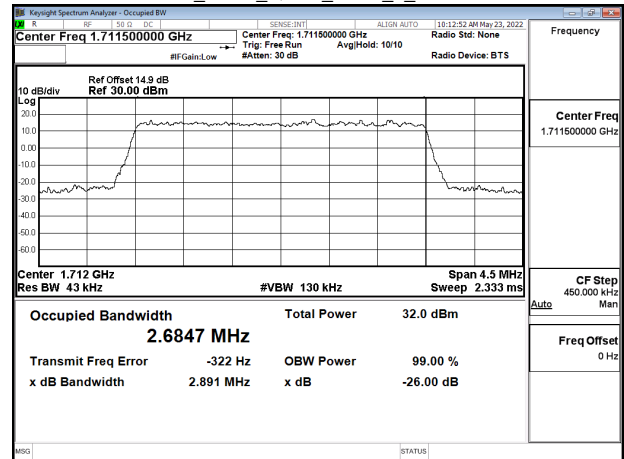
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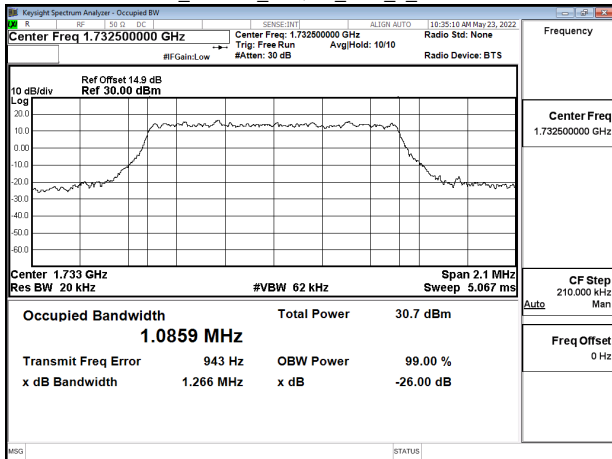
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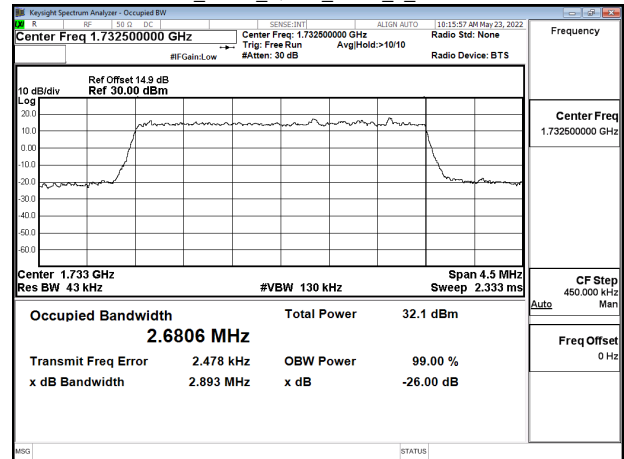
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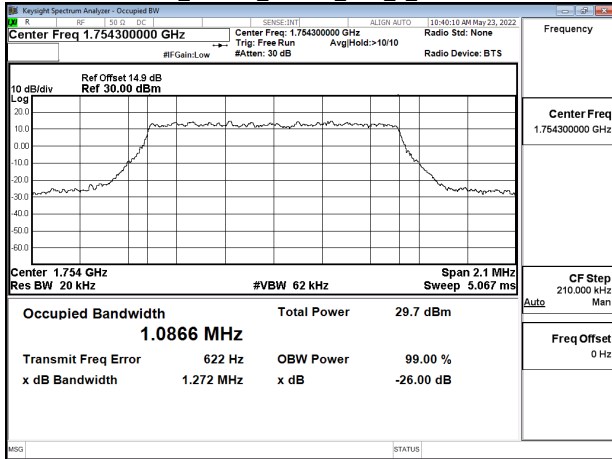
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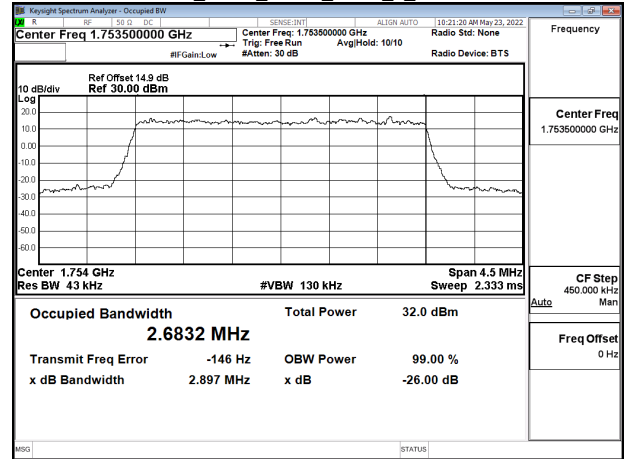
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Band4_1.4MHz_64QAM_RB6_0_CH20393



Band4_3MHz_QPSK_RB15_0_CH20385

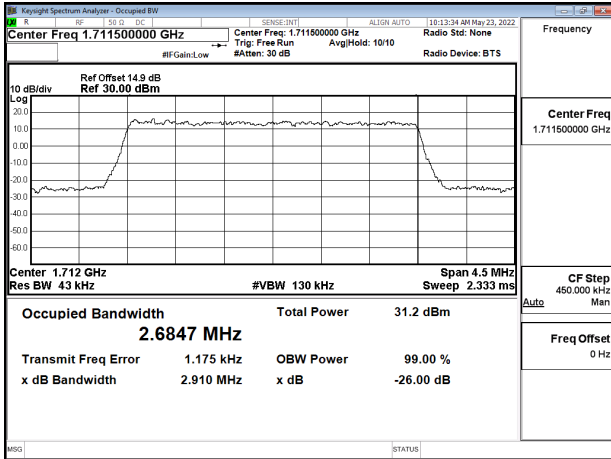


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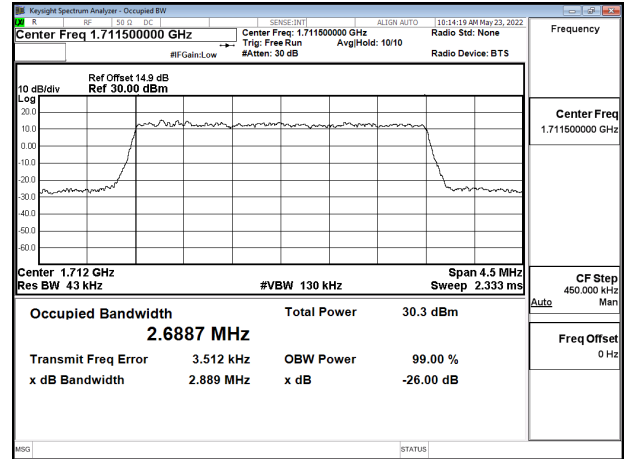
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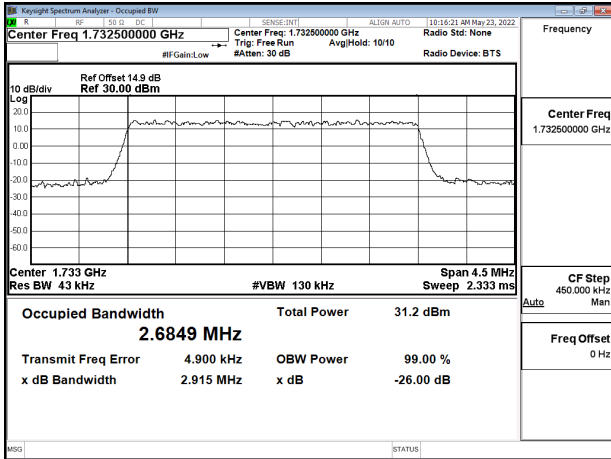
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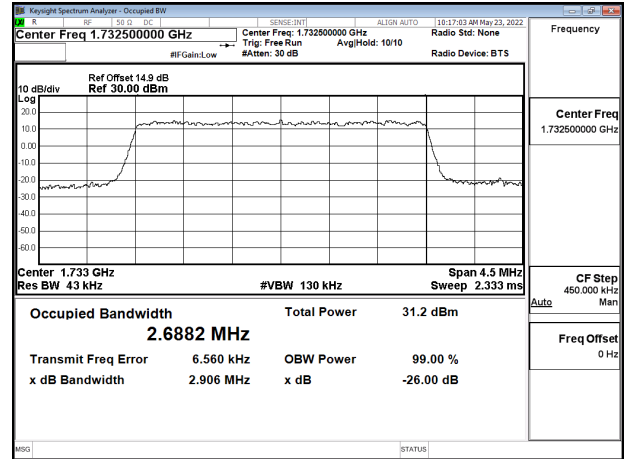
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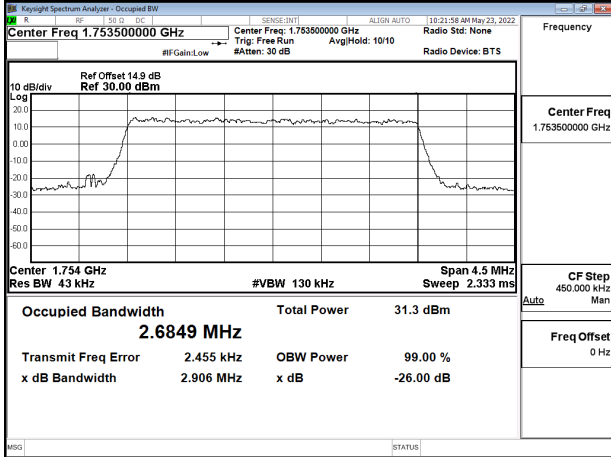
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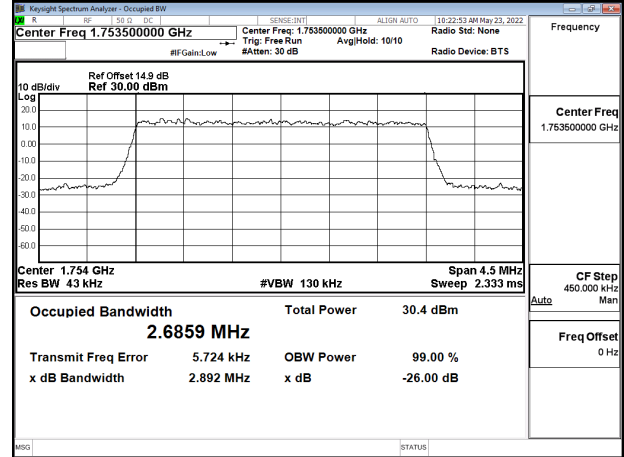
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Band4_3MHz_16QAM_RB15_0_CH20385



Band4_3MHz_64QAM_RB15_0_CH20385

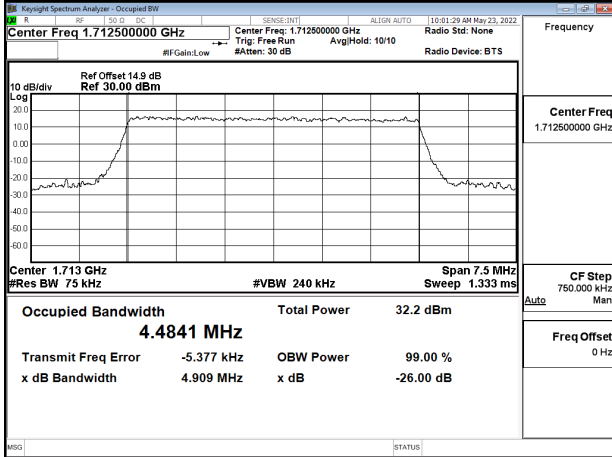


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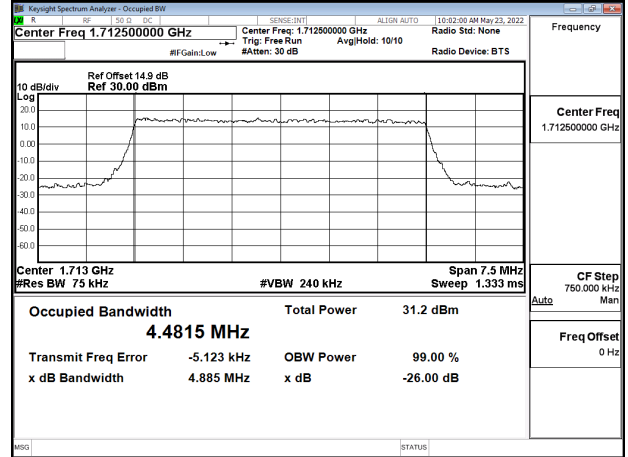
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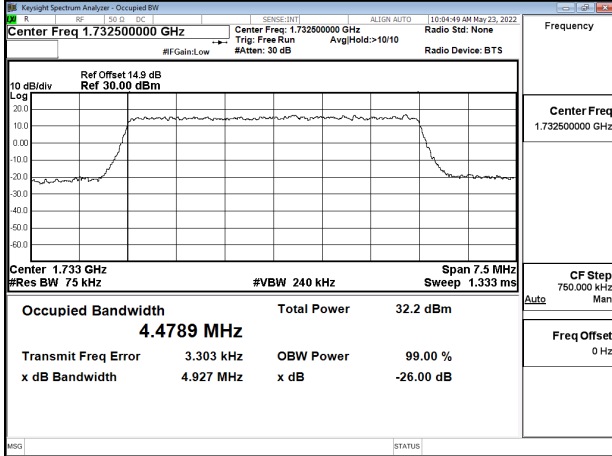
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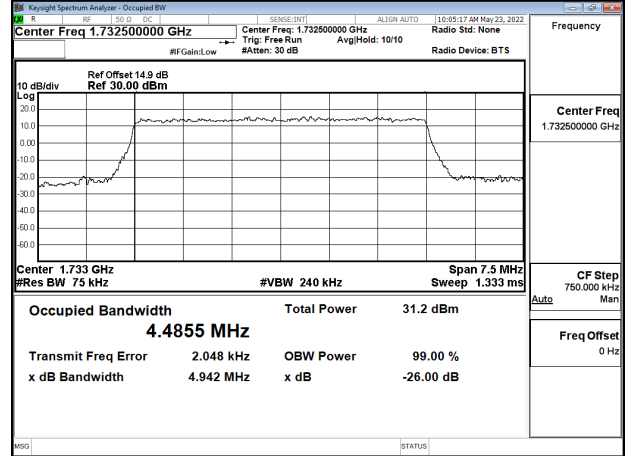
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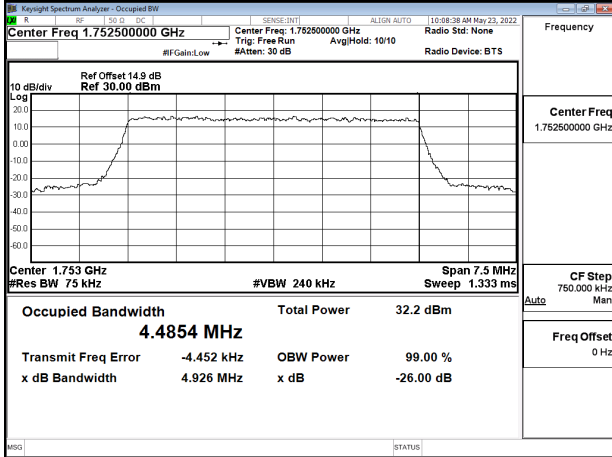
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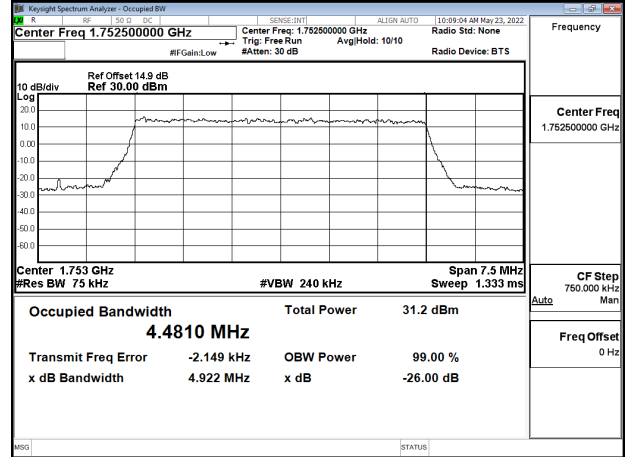
Band4_5MHz_16QAM_RB25_0_CH20175



Band4_5MHz_QPSK_RB25_0_CH20375



Band4_5MHz_16QAM_RB25_0_CH20375

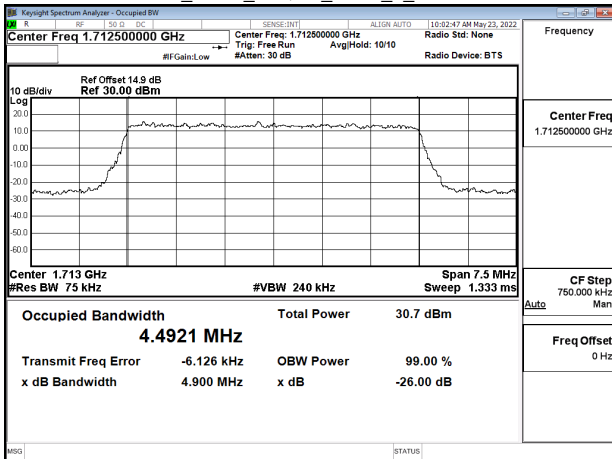


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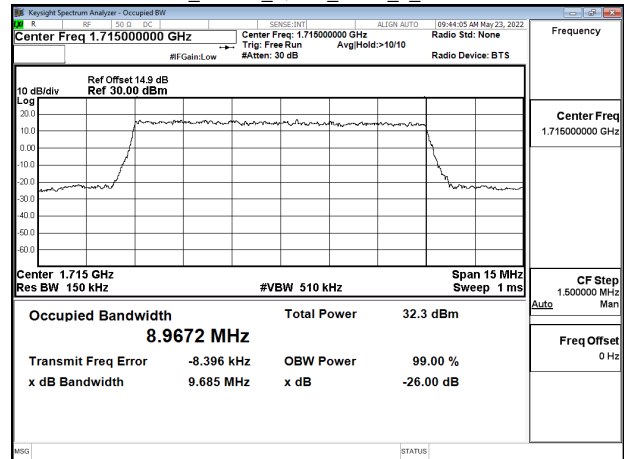
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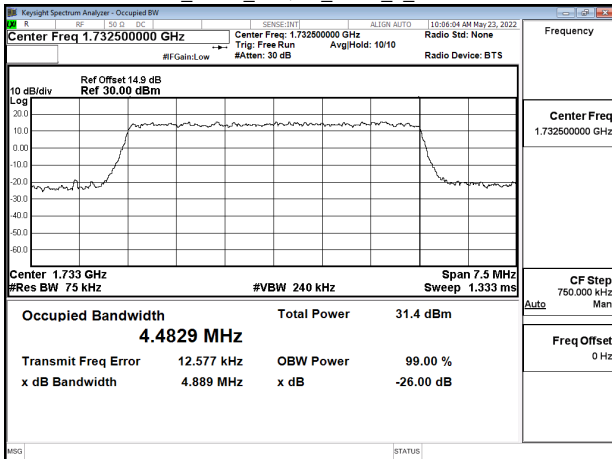
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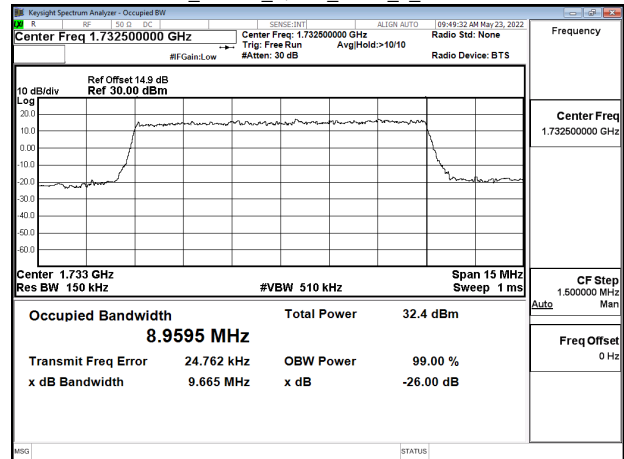
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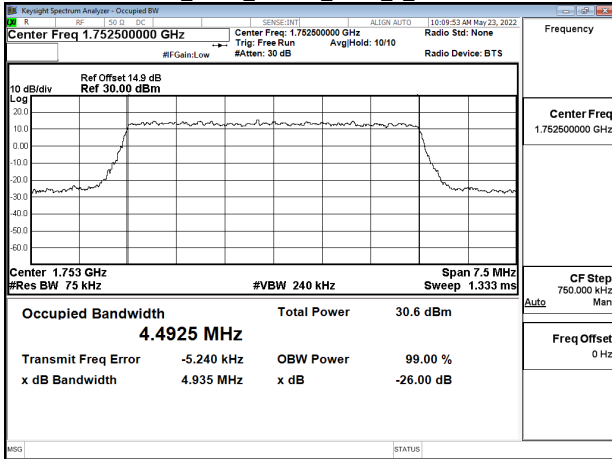
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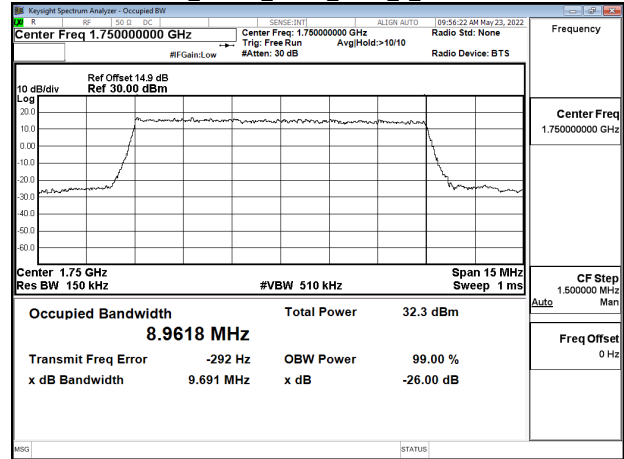
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Band4_5MHz_64QAM_RB25_0_CH20375



Band4_10MHz_QPSK_RB50_0_CH20350

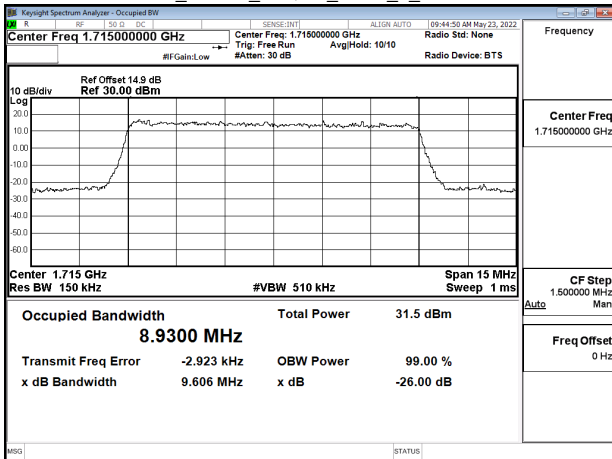


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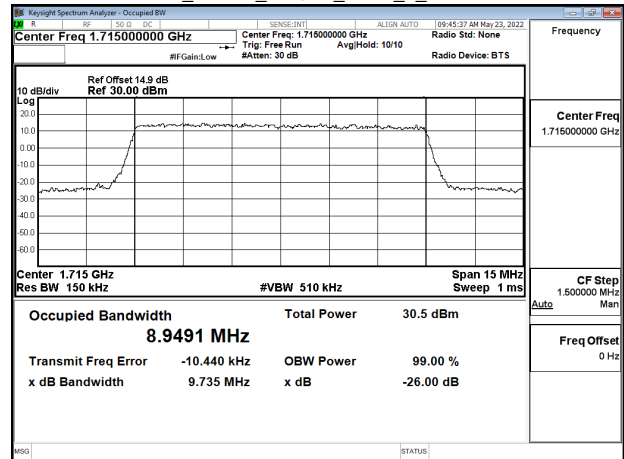
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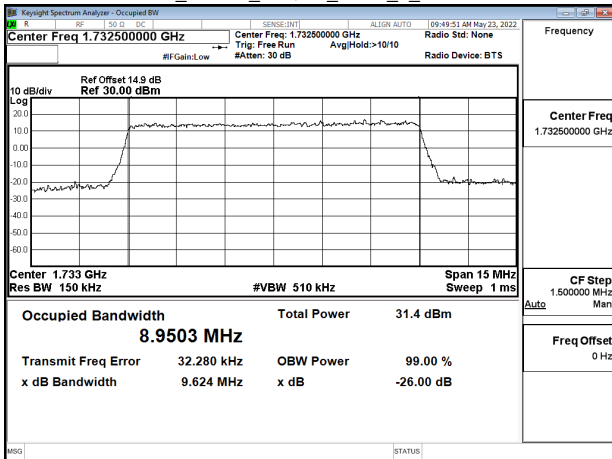
Band4_10MHz_16QAM_RB50_0_CH20000



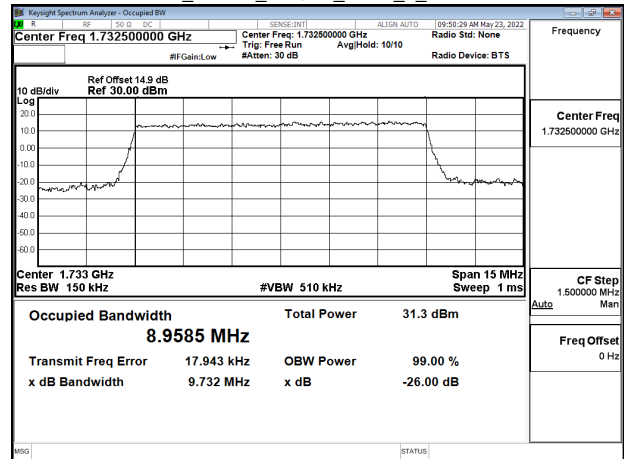
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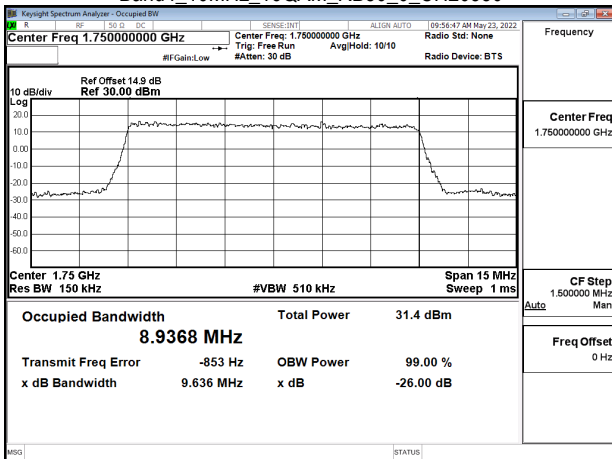
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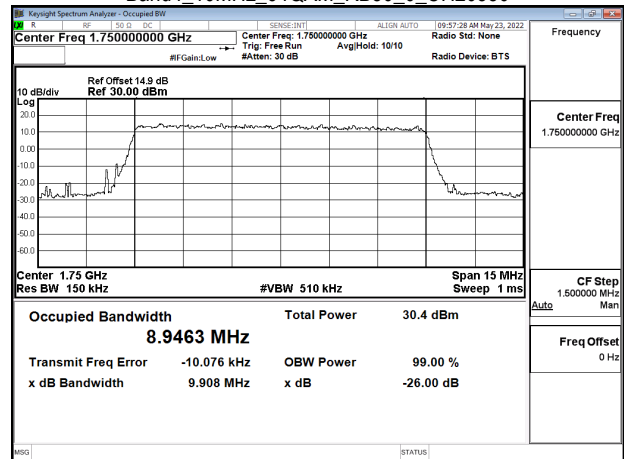
Band4_10MHz_64QAM_RB50_0_CH20175



Band4_10MHz_16QAM_RB50_0_CH20350



Band4_10MHz_64QAM_RB50_0_CH20350



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

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