

FCC TEST REPORT

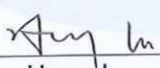
Product Name: Mobile Phone
Trade Mark: BLU
Model No.: G90 PRO
Report Number: 200423019RFM-2
Test Standards: FCC 47 CFR Part 22
 FCC 47 CFR Part 24
 FCC 47 CFR Part 27
FCC ID: YHLBLUG90PRO
Test Result: PASS
Date of Issue: June 1, 2020

Prepared for:

BLU Products, Inc.
10814 NW 33rd St # 100 Doral, FL 33172 ,USA

Prepared by:

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Date: June 1, 2020

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Version

| Version No. | Date | Description |
|-------------|--------------|-------------|
| V1.0 | June 1, 2020 | Original |

**Shenzhen UnionTrust Quality and Technology Co., Ltd.**

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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

| | |
|---------------------------------|---|
| Applicant: | BLU Products, Inc. |
| Address of Applicant: | 10814 NW 33rd St # 100 Doral, FL 33172 ,USA |
| Manufacturer: | BLU Products, Inc. |
| Address of Manufacturer: | 10814 NW 33rd St # 100 Doral, FL 33172 ,USA |

1.2 EUT INFORMATION

1.2.1 General Description of EUT

| | | |
|-------------------------------|--------------------------------|---|
| Product Name: | Mobile Phone | |
| Model No.: | G90 PRO | |
| Add. Model No.: | N/A | |
| Trade Mark: | BLU | |
| DUT Stage: | Identical Prototype | |
| EUT Supports Function: | GSM Bands: | GSM850/1900 |
| | UTRA Bands: | Band II/ Band IV/ Band V |
| | E-UTRA Bands: | FDD Band 2/ Band 4/ Band 5/ Band 7/ Band 12/ Band 13/ Band 17 |
| | 2.4 GHz ISM Band: | IEEE 802.11b/g/n Bluetooth V4.2 |
| IMEI Code: | Conduction | 869899033468112, 869899033468120 |
| | Radiation | 869899033468336, 869899033468344 |
| Sample Received Date: | April 23, 2020 | |
| Sample Tested Date: | April 23, 2020 to May 21, 2020 | |

1.2.2 Description of Accessories

| Adapter | |
|----------------------|--------------------------------------|
| Model No.: | US-KB-2009 |
| Input: | 100-240 V~50/60 Hz 0.6A |
| Output: | 9.0 V --- 2000mA |
| DC Cable: | 1.00 Meter, Shielded without ferrite |
| Manufacturer: | Shenzhen Huajin Electronics Co., Ltd |

| Battery | |
|--------------------------------|--|
| Model No.: | C826358500P |
| Battery Type: | Lithium-ion Polymer Rechargeable Battery |
| Rated Voltage: | 3.85 Vdc |
| Limited Charge Voltage: | 4.4 Vdc |
| Rated Capacity: | 5000 mAh |
| Typical Capacity: | 5100 mAh |
| Manufacturer: | Dongguan Nanyu Xinsheng Electronic Technology CO.Ltd |

| Cable | |
|---------------------|----------------------------|
| Description: | USB Type-C Plug Cable |
| Cable Type: | Unshielded without ferrite |
| Length: | 1.00 Meter |

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| Earphone | |
|-------------|------------|
| Cable Type: | Unshielded |
| Length: | 1.20 Meter |

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

| | | |
|---------------------------|------------------------|------------------------|
| Support Networks: | LTE | |
| Type of Modulation: | LTE Band 2/4/5/7/12/13 | QPSK,16QAM,32QAM,64QAM |
| Antenna Type: | PIFA Antenna | |
| Antenna Gain: | LTE Band 2: | 0.7 dBi |
| | LTE Band 4: | 0.7 dBi |
| | LTE Band 5: | -0.7 dBi |
| | LTE Band 7: | 0.7 dBi |
| | LTE Band 12: | -2.1 dBi |
| | LTE Band 13: | -2.1 dBi |
| | LTE Band 17: | -2.1 dBi |
| Normal Test Voltage: | 3.85 Vdc | |
| Extreme Test Voltage: | 3.5 to 4.4Vdc | |
| Extreme Test Temperature: | -30 °C to +50 °C | |

| Summary of Results: | | | | | | | | |
|---------------------|-------|------------|-----------------|---------------------------|--------------------|----------|--------------|---------------------|
| Bands | BW | Modulation | Frequency Range | Max RF Output Power (dBm) | | EIRP (W) | 99% BW (MHz) | Emission Designator |
| | (MHz) | | (MHz) | Conducted (Average) | ERP/EIRP (Average) | | | |
| 2 | 1.4 | QPSK | 1850.7-1909.3 | 22.75 | 23.45 | 0.22131 | 1.1043 | 1M10G7D |
| | | 16QAM | | 22.21 | 22.91 | 0.19543 | 1.1043 | 1M10W7D |
| | | 64QAM | | 20.59 | 21.29 | 0.13459 | 1.1043 | 1M10W7D |
| | 3 | QPSK | 1851.5-1908.5 | 22.73 | 23.43 | 0.22029 | 2.6964 | 2M70G7D |
| | | 16QAM | | 22.20 | 22.90 | 0.19498 | 2.6915 | 2M69W7D |
| | | 64QAM | | 20.59 | 21.29 | 0.13459 | 2.6905 | 2M69W7D |
| | 5 | QPSK | 1852.5-1907.5 | 22.73 | 23.43 | 0.22029 | 4.5132 | 4M51G7D |
| | | 16QAM | | 22.09 | 22.79 | 0.19011 | 4.5312 | 4M53W7D |
| | | 64QAM | | 20.65 | 21.35 | 0.13646 | 4.5180 | 4M52W7D |
| | 10 | QPSK | 1855.0-1905.0 | 22.71 | 23.41 | 0.21928 | 8.9913 | 8M99G7D |
| | | 16QAM | | 22.20 | 22.85 | 0.19275 | 8.9915 | 8M99W7D |
| | | 64QAM | | 20.59 | 21.29 | 0.13459 | 8.9878 | 8M99W7D |
| | 15 | QPSK | 1857.5-1902.5 | 22.71 | 23.41 | 0.21928 | 13.473 | 13M5G7D |
| | | 16QAM | | 22.15 | 22.85 | 0.19275 | 13.481 | 13M5W7D |
| | | 64QAM | | 20.59 | 21.29 | 0.13459 | 13.496 | 13M5W7D |
| | 20 | QPSK | 1860.0-1900.0 | 22.75 | 23.45 | 0.22131 | 17.972 | 18M0G7D |
| | | 16QAM | | 22.22 | 22.92 | 0.19588 | 18.019 | 18M0W7D |
| | | 64QAM | | 20.65 | 21.35 | 0.13646 | 18.026 | 18M0W7D |

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| Summary of Results: | | | | | | | | |
|---------------------|-------|------------|-----------------|---------------------------|--------------------|----------|--------------|---------------------|
| Bands | BW | Modulation | Frequency Range | Max RF Output Power (dBm) | | EIRP (W) | 99% BW (MHz) | Emission Designator |
| | (MHz) | | (MHz) | Conducted (Average) | ERP/EIRP (Average) | | | |
| 4 | 1.4 | QPSK | 1710.7-1754.3 | 22.67 | 23.37 | 0.21727 | 1.1070 | 1M10G7D |
| | | 16QAM | | 22.03 | 22.73 | 0.18750 | 1.1052 | 1M10W7D |
| | | 64QAM | | 20.57 | 21.27 | 0.13397 | 1.1067 | 1M11W7D |
| | 3 | QPSK | 1711.5-1753.5 | 22.63 | 23.33 | 0.21528 | 2.6972 | 2M70G7D |
| | | 16QAM | | 22.09 | 22.79 | 0.19011 | 2.6948 | 2M70W7D |
| | | 64QAM | | 20.50 | 21.20 | 0.13183 | 2.6878 | 2M69W7D |
| | 5 | QPSK | 1712.5-1752.5 | 22.67 | 23.37 | 0.21727 | 4.5257 | 4M53G7D |
| | | 16QAM | | 22.05 | 22.75 | 0.18836 | 4.5262 | 4M53W7D |
| | | 64QAM | | 20.51 | 21.21 | 0.13213 | 4.5176 | 4M52W7D |
| | 10 | QPSK | 1715-1750 | 22.65 | 23.35 | 0.21627 | 8.9846 | 8M98G7D |
| | | 16QAM | | 22.05 | 22.75 | 0.18836 | 8.9903 | 8M99W7D |
| | | 64QAM | | 20.50 | 21.20 | 0.13183 | 8.9946 | 8M99W7D |
| | 15 | QPSK | 1717.5-1747.5 | 22.59 | 23.29 | 0.21330 | 13.472 | 13M5G7D |
| | | 16QAM | | 22.08 | 22.78 | 0.18967 | 13.493 | 13M5W7D |
| | | 64QAM | | 20.50 | 21.20 | 0.13183 | 13.496 | 13M5W7D |
| 20 | QPSK | 1720-1745 | 22.67 | 23.37 | 0.21727 | 17.977 | 18M0G7D | |
| | 16QAM | | 22.11 | 22.81 | 0.19099 | 18.020 | 18M0W7D | |
| | 64QAM | | 20.58 | 21.28 | 0.13428 | 17.982 | 18M0W7D | |
| 5 | 1.4 | QPSK | 824.7-848.3 | 21.95 | 19.10 | 0.08128 | 1.1069 | 1M11G7D |
| | | 16QAM | | 21.66 | 18.81 | 0.07603 | 1.1032 | 1M10W7D |
| | | 64QAM | | 19.87 | 17.02 | 0.05035 | 1.1011 | 1M10W7D |
| | 3 | QPSK | 825.5-847.5 | 21.92 | 19.07 | 0.08072 | 2.7014 | 2M70G7D |
| | | 16QAM | | 21.67 | 18.82 | 0.07621 | 2.6928 | 2M69W7D |
| | | 64QAM | | 19.83 | 16.98 | 0.04989 | 2.6871 | 2M69W7D |
| | 5 | QPSK | 826.5-846.5 | 21.94 | 19.09 | 0.08110 | 4.5202 | 4M52G7D |
| | | 16QAM | | 21.60 | 18.75 | 0.07499 | 4.5315 | 4M53W7D |
| | | 64QAM | | 19.85 | 17.00 | 0.05012 | 4.5302 | 4M53W7D |
| | 10 | QPSK | 829-844 | 21.98 | 19.13 | 0.08185 | 8.9813 | 8M98G7D |
| | | 16QAM | | 21.74 | 18.89 | 0.07745 | 8.9914 | 8M99W7D |
| | | 64QAM | | 19.92 | 17.07 | 0.05093 | 8.9854 | 8M99W7D |

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| Summary of Results: | | | | | | | | |
|---------------------|-------|------------|-----------------|---------------------------|--------------------|----------|--------------|---------------------|
| Bands | BW | Modulation | Frequency Range | Max RF Output Power (dBm) | | EIRP (W) | 99% BW (MHz) | Emission Designator |
| | (MHz) | | (MHz) | Conducted (Average) | ERP/EIRP (Average) | | | |
| 7 | 5 | QPSK | 2502.5-2567.5 | 22.70 | 23.40 | 0.21878 | 4.5158 | 4M52G7D |
| | | 16QAM | | 22.03 | 22.73 | 0.18750 | 4.5259 | 4M53W7D |
| | | 64QAM | | 20.66 | 21.36 | 0.13677 | 4.5285 | 4M53W7D |
| | 10 | QPSK | 2505-2565 | 22.77 | 23.47 | 0.22233 | 9.0044 | 9M00G7D |
| | | 16QAM | | 21.91 | 22.61 | 0.18239 | 8.9913 | 8M99W7D |
| | | 64QAM | | 20.66 | 21.36 | 0.13677 | 8.9905 | 8M99W7D |
| | 15 | QPSK | 2507.5-2562.5 | 22.80 | 23.37 | 0.21727 | 13.480 | 13M5G7D |
| | | 16QAM | | 22.08 | 22.78 | 0.18967 | 13.517 | 13M5W7D |
| | | 64QAM | | 20.68 | 21.38 | 0.13740 | 13.486 | 13M5W7D |
| | 20 | QPSK | 2510-2560 | 22.84 | 23.54 | 0.22594 | 17.994 | 18M0G7D |
| | | 16QAM | | 22.09 | 22.79 | 0.19011 | 18.012 | 18M0W7D |
| | | 64QAM | | 20.72 | 21.42 | 0.13868 | 18.005 | 18M0W7D |
| 12 | 1.4 | QPSK | 699.7-715.3 | 22.25 | 18.00 | 0.06310 | 1.1012 | 1M10G7D |
| | | 16QAM | | 21.83 | 17.58 | 0.05728 | 1.1031 | 1M10W7D |
| | | 64QAM | | 20.02 | 15.72 | 0.03733 | 1.1038 | 1M10W7D |
| | 3 | QPSK | 700.5-714.5 | 22.26 | 18.01 | 0.06324 | 2.6960 | 2M70G7D |
| | | 16QAM | | 21.84 | 17.59 | 0.05741 | 2.6949 | 2M69W7D |
| | | 64QAM | | 19.88 | 15.63 | 0.03656 | 2.6880 | 2M69W7D |
| | 5 | QPSK | 701.5-713.5 | 22.25 | 18.00 | 0.06310 | 4.5193 | 4M52G7D |
| | | 16QAM | | 21.74 | 17.49 | 0.05610 | 4.5290 | 4M53W7D |
| | | 64QAM | | 19.94 | 15.69 | 0.03707 | 4.5205 | 4M52W7D |
| | 10 | QPSK | 704-711 | 22.28 | 18.03 | 0.06353 | 8.9822 | 8M98G7D |
| | | 16QAM | | 21.88 | 17.63 | 0.05794 | 8.9927 | 8M99W7D |
| | | 64QAM | | 19.98 | 15.73 | 0.03741 | 9.0046 | 9M00W7D |
| 13 | 5 | QPSK | 779.5-784.5 | 22.01 | 17.69 | 0.05875 | 4.5220 | 4M52G7D |
| | | 16QAM | | 21.34 | 17.76 | 0.05970 | 4.5219 | 4M52W7D |
| | | 64QAM | | 19.93 | 17.68 | 0.05861 | 4.5194 | 4M52W7D |
| | 10 | QPSK | 782-782 | 22.12 | 17.87 | 0.06124 | 8.9355 | 8M94G7D |
| | | 16QAM | | 21.40 | 17.15 | 0.05188 | 8.9461 | 8M95W7D |
| | | 64QAM | | 19.01 | 14.76 | 0.02992 | 8.9515 | 8M95W7D |
| 17 | 5 | QPSK | 706.5-713.5 | 21.65 | 17.40 | 0.05495 | 4.5218 | 4M52G7D |
| | | 16QAM | | 20.84 | 16.59 | 0.04560 | 4.5242 | 4M52W7D |
| | | 64QAM | | 19.69 | 15.44 | 0.03499 | 4.5085 | 4M51W7D |
| | 10 | QPSK | 709-711 | 21.76 | 17.51 | 0.05636 | 8.9947 | 8M99G7D |
| | | 16QAM | | 20.94 | 16.69 | 0.04667 | 8.9875 | 8M99W7D |
| | | 64QAM | | 19.83 | 15.58 | 0.03614 | 8.9942 | 8M99W7D |

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1.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Cable

| Cable No. | Description | Connector | Length | Supplied by |
|-----------|---------------|-----------|------------|-------------|
| 1 | Antenna Cable | SMA | 0.30 Meter | Applicant |

1.5 TEST LOCATION

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 Fax: +86 (0) 755 2823 0886

1.6 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.7 DEVIATION FROM STANDARDS

None.

1.8 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.10 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| No. | Item | Measurement Uncertainty |
|-----|---|--------------------------|
| 1 | Conducted emission 9KHz-150KHz | ±3.2 dB |
| 2 | Conducted emission 150KHz-30MHz | ±2.7 dB |
| 3 | Radiated spurious emissions 30MHz-1GHz | ± 4.9 dB |
| 4 | Radiated spurious emissions 1GHz-18GHz | ± 4.8 dB |
| 5 | Radiated spurious emissions 18GHz-40GHz | ± 5.1 dB |
| 6 | Occupied Bandwidth | ± 1.86 % |
| 7 | DC Supply Voltages | ± 0.68 % |
| 8 | Temperature | ± 0.62 °C |
| 9 | Humidity | ± 3.9 % |
| 10 | Conducted spurious emissions | ± 2.7 dB |
| 11 | DC Supply Voltages | ± 0.68 % |
| 12 | AC Supply Voltages | ± 1.2 % |
| 13 | Radio Frequency | ± 6.5 x 10 ⁻⁸ |
| 14 | RF Power, Conducted | ± 0.9 dB |

2. TEST SUMMARY

| FCC 47 CFR Part 24 Test Cases (Band 2) | | | |
|--|---|---|--------|
| Test Item | Test Requirement | Test Method | Result |
| Equivalent Isotropic Radiated Power (EIRP) | FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 24.232(c) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Conducted Output Power | FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 24.232(c) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Peak-to-average ratio | FCC 47 CFR Part 24.232(d) | KDB 971168 D01v03r01 | PASS |
| 99%&26dB Bandwidth | FCC 47 CFR Part 2.1049(h) & FCC 47 CFR Part 24.238(b) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Band Edge at antenna terminals | FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 24.238(a) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Spurious emissions at antenna terminals | FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 24.238(a)(b) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Field strength of spurious radiation | FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 24.238(a)(b) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Frequency stability | FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 24.235 | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |

| FCC 47 CFR Part 27 Test Cases (LTE Band 4) | | | |
|--|---|---|--------|
| Test Item | Test Requirement | Test Method | Result |
| Equivalent Isotropic Radiated Power (EIRP) | FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(d)(4) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Conducted Output Power | FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(d)(4) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Peak-to-average ratio | FCC 47 CFR Part 27.50(d)(5) | KDB 971168 D01v03r01 | PASS |
| 99%&26dB Bandwidth | FCC 47 CFR Part 2.1049(h) & FCC 47 CFR Part 27.53(h) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Band Edge at antenna terminals | FCC 47 CFR Part 27.53(h)(1) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Spurious emissions at antenna terminals | FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53(h) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Field strength of spurious radiation | FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(h) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Frequency stability | FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54 | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |

| FCC 47 CFR Part 22 Test Cases (Band 5) | | | |
|---|---|---|--------|
| Test Item | Test Requirement | Test Method | Result |
| Effective Radiated Power (ERP) | FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 22.913(a) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Conducted Output Power | FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 22.913(a) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Peak-to-average ratio | FCC 47 CFR Part 22.913(a) | KDB 971168 D01v03r01 | PASS |
| 99%&26dB Bandwidth | FCC 47 CFR Part 2.1049(h) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Band Edge at antenna terminals | FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 22.917(a) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Spurious emissions at antenna terminals | FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 22.917(a)(b) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Field strength of spurious radiation | FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 22.917(a)(b) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Frequency stability | FCC 47 CFR Part 2.1055 & | ANSI C63.26-2015 & | PASS |

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| | FCC 47 CFR Part 22.355 | KDB 971168 D01v03r01 |
|--|------------------------|----------------------|

| FCC 47 CFR Part 27 Test Cases (LTE Band 7) | | | |
|--|---|---|--------|
| Test Item | Test Requirement | Test Method | Result |
| Equivalent Isotropic Radiated Power (EIRP) | FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(h)(2) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Conducted Output Power | FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(h)(2) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Peak-to-average ratio | FCC 47 CFR Part 27.50(d)(5) | KDB 971168 D01v03r01 | PASS |
| 99%&26dB Bandwidth | FCC 47 CFR Part 2.1049(h) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Band Edge at antenna terminals | FCC 47 CFR Part 27.53(m)(4) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Spurious emissions at antenna terminals | FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53(m)(4) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Field strength of spurious radiation | FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(m)(4) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Frequency stability | FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54 | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |

| FCC 47 CFR Part 27 Test Cases (LTE Band 12&17) | | | |
|--|--|---|--------|
| Test Item | Test Requirement | Test Method | Result |
| Effective Radiated Power (ERP) | FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(c)(10) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Conducted Output Power | FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(c)(10) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Peak-to-average ratio | FCC 47 CFR Part 27.50(d)(5) | KDB 971168 D01v03r01 | PASS |
| 99%&26dB Bandwidth | FCC 47 CFR Part 2.1049(h) FCC 47 CFR Part 27.53(g) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Band Edge at antenna terminals | FCC 47 CFR Part 27.53(g) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Spurious emissions at antenna terminals | FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53(g) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Field strength of spurious radiation | FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(g) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Frequency stability | FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54 | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |

| FCC 47 CFR Part 27 Test Cases (LTE Band 13) | | | |
|---|--|---|--------|
| Test Item | Test Requirement | Test Method | Result |
| Effective Radiated Power (ERP) | FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(b)(10) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Conducted Output Power | FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(b)(10) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Peak-to-average ratio | FCC 47 CFR Part 27.50(d)(5) | KDB 971168 D01v03r01 | PASS |
| 99%&26dB Bandwidth | FCC 47 CFR Part 2.1049(h) | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Band Edge at antenna terminals | FCC 47 CFR Part 27.53 | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Spurious emissions at antenna terminals | FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53 | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
| Field strength of spurious radiation | FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53 | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |

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| Frequency stability | FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54 | ANSI C63.26-2015 & KDB 971168 D01v03r01 | PASS |
|---------------------|---|--|------|

3. EQUIPMENT LIST

| Radiated Emission Test Equipment List | | | | | | |
|---------------------------------------|-----------------------------------|--------------|------------|----------------------------|-------------------------|-----------------------------|
| Used | Equipment | Manufacturer | Model No. | Serial Number | Cal. date (mm dd, yyyy) | Cal. Due date (mm dd, yyyy) |
| <input checked="" type="checkbox"/> | 3M Chamber & Accessory Equipment | ETS-LINDGREN | 3M | N/A | Dec. 03, 2018 | Dec. 03, 2021 |
| <input checked="" type="checkbox"/> | Receiver | R&S | ESIB26 | 100114 | Nov. 24, 2019 | Nov. 23, 2020 |
| <input type="checkbox"/> | Loop Antenna | ETS-LINDGREN | 6502 | 00202525 | Nov. 24, 2019 | Nov. 23, 2020 |
| <input checked="" type="checkbox"/> | Broadband Antenna | ETS-LINDGREN | 3142E | 00201566 | Nov. 16, 2019 | Nov. 15, 2020 |
| <input checked="" type="checkbox"/> | 6dB Attenuator | Talent | RA6A5-N-18 | 18103001 | Nov. 16, 2019 | Nov. 15, 2020 |
| <input checked="" type="checkbox"/> | Preamplifier | HP | 8447F | 2805A02960 | Nov. 16, 2019 | Nov. 15, 2020 |
| <input type="checkbox"/> | Broadband Antenna (Pre-amplifier) | ETS-LINDGREN | 3142E-PA | 00201891 | Nov. 24, 2019 | Nov. 23, 2020 |
| <input type="checkbox"/> | 6dB Attenuator | Talent | RA6A5-N-18 | 18103002 | Nov. 24, 2019 | Nov. 23, 2020 |
| <input checked="" type="checkbox"/> | Horn Antenna | ETS-LINDGREN | 3117 | 00164202 | Nov. 24, 2019 | Nov. 23, 2020 |
| <input checked="" type="checkbox"/> | Pre-amplifier | ETS-LINDGREN | 118385 | 00201874 | Jan. 10, 2020 | Jan. 10, 2021 |
| <input type="checkbox"/> | Horn Antenna | ETS-LINDGREN | 3116C | 00200180 | Jun. 23, 2019 | Jun. 23, 2020 |
| <input checked="" type="checkbox"/> | Horn Antenna (Pre-amplifier) | ETS-LINDGREN | 3116C-PA | 00202652 | Jun. 23, 2019 | Jun. 23, 2020 |
| <input checked="" type="checkbox"/> | Multi device Controller | ETS-LINDGREN | 7006-001 | 00160105 | N/A | N/A |
| <input checked="" type="checkbox"/> | Test Software | Audix | e3 | Software Version: 9.160323 | | |

| RF Test Equipment List | | | | | | |
|-------------------------------------|-------------------------------------|--------------|---------------|------------------------|-------------------------|-----------------------------|
| Used | Equipment | Manufacturer | Model No. | Serial Number | Cal. date (mm dd, yyyy) | Cal. Due date (mm dd, yyyy) |
| <input checked="" type="checkbox"/> | Receiver | R&S | ESR7 | 1316.3003K07-101181-K3 | Nov. 24, 2019 | Nov. 23, 2020 |
| <input checked="" type="checkbox"/> | EXA Spectrum Analyzer | KEYSIGHT | N9010A | MY51440197 | Nov. 24, 2019 | Nov. 23, 2020 |
| <input checked="" type="checkbox"/> | Wideband Radio Communication Tester | R&S | CMW500 | 120932 | Jul. 19, 2019 | Jul. 19, 2020 |
| <input type="checkbox"/> | Wideband Radio Communication Tester | R&S | CMW500 | 119583 | Jul. 31, 2019 | Jul. 31, 2020 |
| <input checked="" type="checkbox"/> | DC Source | KIKUSUI | PWR400L | LK003024 | Sep. 09, 2019 | Sep. 08, 2020 |
| <input type="checkbox"/> | Temp & Humidity chamber | Espec | GL(U)04K A(W) | 16921H201P3 | Sep. 09, 2019 | Sep. 08, 2020 |
| <input checked="" type="checkbox"/> | Temp & Humidity chamber | Votisch | VT4002 | 58566133290020 | Jun. 05, 2018 | Jun. 05, 2020 |

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4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

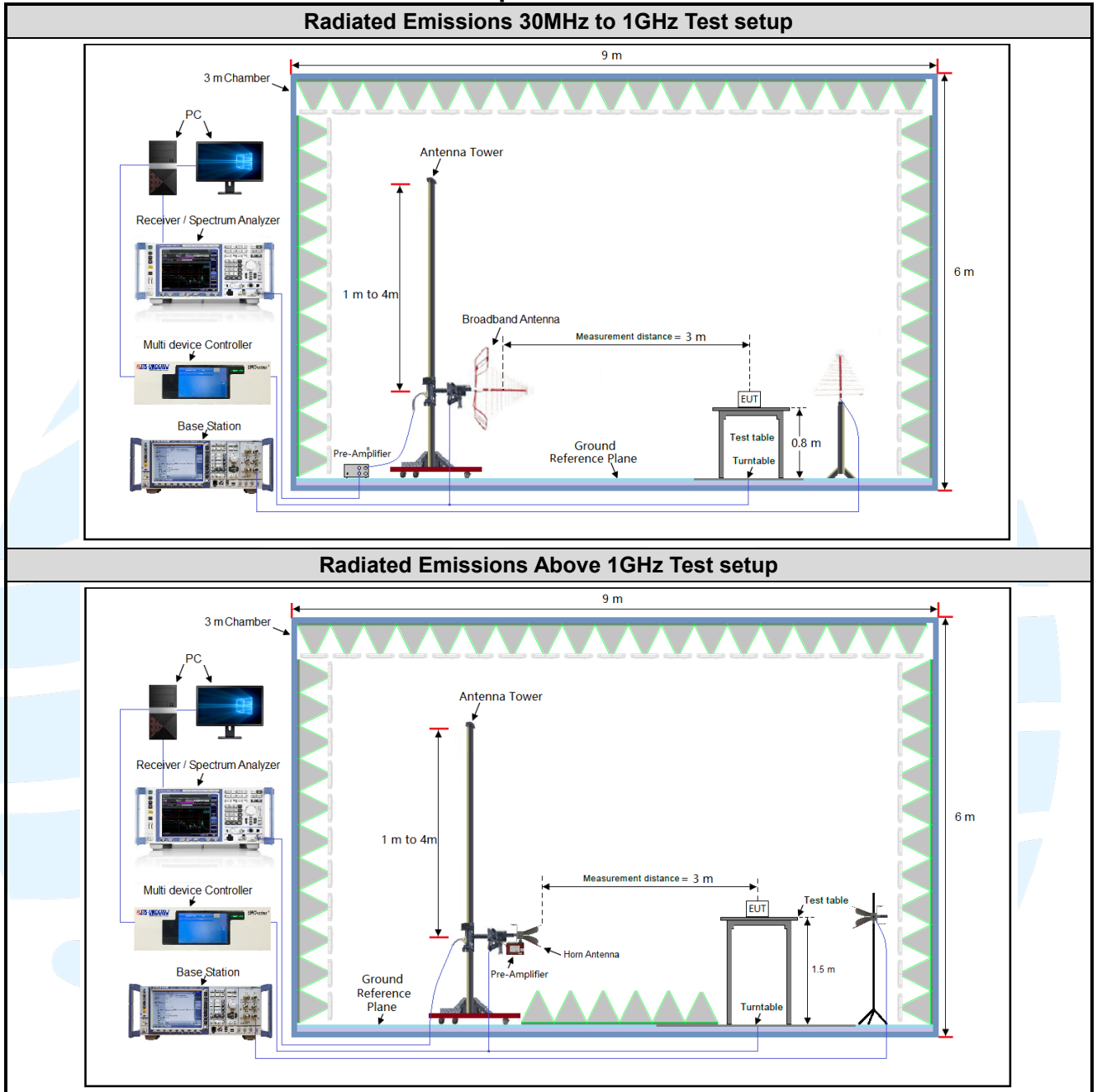
| Test Environment | Selected Values During Tests | | |
|------------------|------------------------------|-------------|-----------------------|
| Test Condition | Ambient | | |
| | Temperature (°C) | Voltage (V) | Relative Humidity (%) |
| TN/VN | +15 to +35 | 3.85 | 20 to 75 |
| TL/VL | -30 | 3.5 | 20 to 75 |
| TH/VL | +50 | 3.5 | 20 to 75 |
| TL/VH | -30 | 4.4 | 20 to 75 |
| TH/VH | +50 | 4.4 | 20 to 75 |

Remark:

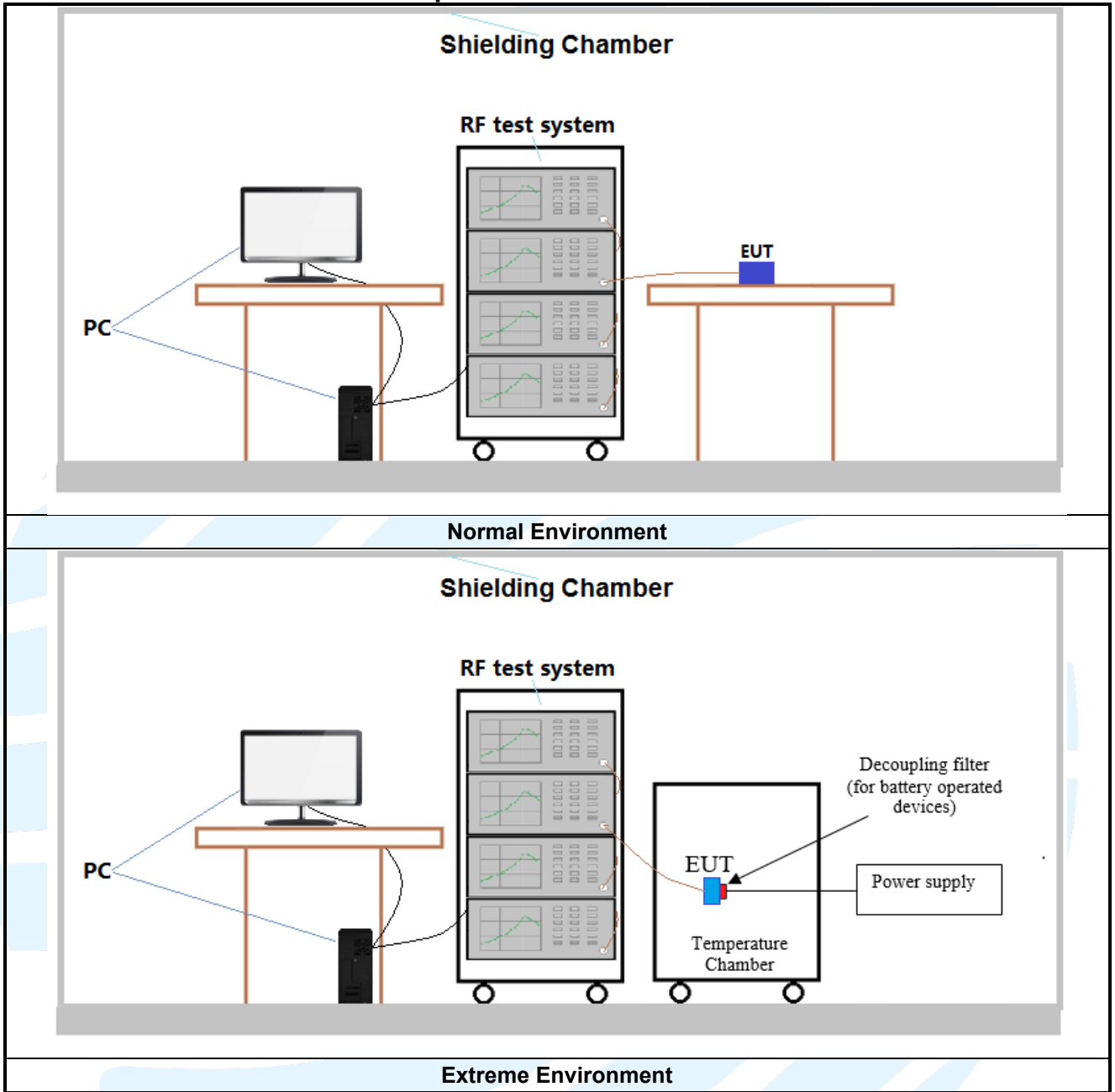
- 1) The EUT just work in such extreme temperature of -30 °C to +50 °C and the extreme voltage of 3.5 V to 4.4 V, so here the EUT is tested in the temperature of -30 °C to +50 °C and the voltage of 3.5 V to 4.4 V.
- 2) VN: Normal Voltage; TN: Normal Temperature;
 TL: Low Extreme Test Temperature; TH: High Extreme Test Temperature;
 VL: Low Extreme Test Voltage; VH: High Extreme Test Voltage.

4.2 TEST SETUP

4.2.1 For Radiated Emissions test setup



4.2.2 For Conducted RF test setup



4.3 TEST CHANNELS

| Band | Test Frequency ID | Bandwidth (MHz) | Number [UL] | Frequency of Uplink (MHz) |
|--------------------------------|--------------------------------|-------------------|-------------|---------------------------|
| LTE Band 2 TX: 1850-1910MHz | Low Range | 1.4 | 18607 | 1850.7 |
| | | 3 | 18615 | 1851.5 |
| | | 5 | 18625 | 1852.5 |
| | | 10 | 18650 | 1855 |
| | | 15 | 18675 | 1857.5 |
| | | 20 | 18700 | 1860 |
| | Middle Range | 1.4/3/5/10/15/20 | 18900 | 1880 |
| | High Range | 1.4 | 19193 | 1909.3 |
| | | 3 | 19185 | 1908.5 |
| | | 5 | 19175 | 1907.5 |
| | | 10 | 19150 | 1905 |
| | | 15 | 19125 | 1902.5 |
| | | 20 | 19100 | 1900 |
| | LTE Band 4 TX: 1710-1755MHz | Low Range | 1.4 | 19957 |
| 3 | | | 19965 | 1711.5 |
| 5 | | | 19975 | 1712.5 |
| 10 | | | 20000 | 1715 |
| 15 | | | 20025 | 1717.5 |
| 20 | | | 20050 | 1720 |
| Middle Range | | 1.4/3/5/10/ 15/20 | 20175 | 1732.5 |
| High Range | | 1.4 | 20393 | 1754.3 |
| | | 3 | 20385 | 1753.5 |
| | | 5 | 20375 | 1752.5 |
| | | 10 | 20350 | 1750 |
| | | 15 | 20325 | 1747.5 |
| | | 20 | 20300 | 1745 |
| LTE band 5 TX: 824–849MHz | | Low Range | 1.4 | 20407 |
| | 3 | | 20415 | 825.5 |
| | 5 | | 20425 | 826.5 |
| | 10 | | 20450 | 829 |
| | Middle Range | 1.4/3/5/10 | 20525 | 836.5 |
| | High Range | 1.4 | 20643 | 848.3 |
| | | 3 | 20635 | 847.5 |
| | | 5 | 20625 | 846.5 |
| | | 10 | 20600 | 844 |
| | LTE Band 7 TX: 2500-2570MHz | Low Range | 5 | 20775 |
| 10 | | | 20800 | 2505 |
| 15 | | | 20825 | 2507.5 |
| 20 | | | 20850 | 2510 |
| Middle Range | | 5/10/15/20 | 21100 | 2535 |
| High Range | | 5 | 21425 | 2567.5 |
| | | 10 | 21400 | 2565 |
| | | 15 | 21375 | 2562.5 |

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|-------------------------------|--------------|------------|-------|-------|
| | | 20 | 21350 | 2560 |
| LTE Band 12 TX: 699-716MHz | Low Range | 1.4 | 23017 | 699.7 |
| | | 3 | 23025 | 700.5 |
| | | 5 | 23035 | 701.5 |
| | | 10 | 23060 | 704 |
| | Middle Range | 1.4/3/5/10 | 23095 | 707.5 |
| | High Range | 1.4 | 23173 | 715.3 |
| | | 3 | 23165 | 714.5 |
| | | 5 | 23155 | 713.5 |
| 10 | | 23130 | 711 | |
| LTE Band 13 TX: 777-787MHz | Low Range | 5 | 23205 | 779.5 |
| | | 10 | 23230 | 782 |
| | Middle Range | 5/10 | 23230 | 782 |
| | High Range | 5 | 23255 | 784.5 |
| | | 10 | 23230 | 782 |
| LTE Band 17 TX: 704-716MHz | Low Range | 5 | 23755 | 706.5 |
| | | 10 | 23780 | 709 |
| | Middle Range | 5/10 | 23790 | 710 |
| | High Range | 5 | 23825 | 713.5 |
| | | 10 | 23800 | 711 |

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4.4 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. It was powered by a 3.85V battery. Only the worst case data were recorded in this test report.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X/Y/Z axis, and antenna ports.

The worst case was found when positioned as the table below.

| Band | Mode | Antenna Port | Worst-case axis positioning |
|-------------|------|--------------|-----------------------------|
| LTE Band 2 | 1TX | Chain 0 | Y axis |
| LTE Band 4 | 1TX | Chain 0 | Y axis |
| LTE Band 5 | 1TX | Chain 0 | Y axis |
| LTE Band 7 | 1TX | Chain 0 | Y axis |
| LTE Band 12 | 1TX | Chain 0 | Y axis |
| LTE Band 13 | 1TX | Chain 0 | Y axis |
| LTE Band 17 | 1TX | Chain 0 | Y axis |

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000MHz. The resolution is 1 MHz or greater for frequencies above 1000MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

4.5 PRE-SCAN

Pre-scan under all rate at lowest middle and highest channel, find the transmitter power as below.

4.5.1 LTE Band 2

| LTE Band 2 Maximum Average Power (dBm) | | | | | | | | | | | |
|--|--------------------------|--------|--------------|-------|-------|--------------------------|---------------------------|--------------|-------|-------|-------|
| Modulation | RB | | Test Channel | | | RB | | Test Channel | | | |
| | Size | Offset | Low | Mid | High | Size | Offset | Low | Mid | High | |
| Channel Bandwidth: 1.4 MHz | | | | | | Channel Bandwidth: 3 MHz | | | | | |
| QPSK | 1 | 0 | 22.42 | 22.42 | 22.38 | 1 | 0 | 22.31 | 22.31 | 22.30 | |
| | 1 | 2 | 22.75 | 22.72 | 22.71 | 1 | 7 | 22.73 | 22.67 | 22.61 | |
| | 1 | 5 | 22.43 | 22.33 | 22.33 | 1 | 14 | 22.50 | 22.30 | 22.50 | |
| | 3 | 0 | 22.40 | 22.46 | 22.43 | 8 | 0 | 21.47 | 21.47 | 21.48 | |
| | 3 | 1 | 22.59 | 22.64 | 22.63 | 8 | 3 | 21.57 | 21.46 | 21.56 | |
| | 3 | 3 | 22.66 | 22.50 | 22.44 | 8 | 7 | 21.55 | 21.61 | 21.42 | |
| 16QAM | 6 | 0 | 21.62 | 21.42 | 21.50 | 15 | 0 | 21.56 | 21.40 | 21.44 | |
| | 1 | 0 | 21.81 | 21.76 | 21.79 | 1 | 0 | 21.90 | 21.79 | 21.80 | |
| | 1 | 2 | 22.16 | 21.93 | 22.21 | 1 | 7 | 22.20 | 22.02 | 22.05 | |
| | 1 | 5 | 21.99 | 21.81 | 21.90 | 1 | 14 | 21.90 | 21.86 | 21.98 | |
| | 3 | 0 | 21.56 | 21.57 | 21.52 | 8 | 0 | 20.53 | 20.57 | 20.57 | |
| | 3 | 1 | 21.72 | 21.55 | 21.71 | 8 | 3 | 20.58 | 20.44 | 20.68 | |
| 64QAM | 3 | 3 | 21.63 | 21.44 | 21.66 | 8 | 7 | 20.66 | 20.56 | 20.62 | |
| | 6 | 0 | 20.64 | 20.51 | 20.66 | 15 | 0 | 20.52 | 20.52 | 20.59 | |
| | 1 | 0 | 20.58 | 20.56 | 20.44 | 1 | 0 | 20.55 | 20.53 | 20.51 | |
| | 1 | 2 | 20.51 | 20.45 | 20.39 | 1 | 7 | 20.57 | 20.46 | 20.42 | |
| | 1 | 5 | 20.58 | 20.49 | 20.59 | 1 | 14 | 20.59 | 20.49 | 20.46 | |
| | 3 | 0 | 20.56 | 20.37 | 20.33 | 8 | 0 | 19.50 | 19.46 | 19.29 | |
| QPSK | 3 | 1 | 20.57 | 20.42 | 20.25 | 8 | 3 | 19.59 | 19.40 | 19.26 | |
| | 3 | 3 | 20.57 | 20.31 | 20.43 | 8 | 7 | 19.54 | 19.33 | 19.35 | |
| | 6 | 0 | 19.45 | 19.43 | 19.30 | 15 | 0 | 19.39 | 19.49 | 19.44 | |
| | Channel Bandwidth: 5 MHz | | | | | | Channel Bandwidth: 10 MHz | | | | |
| | QPSK | 1 | 0 | 22.33 | 22.32 | 22.39 | 1 | 0 | 22.47 | 22.32 | 22.40 |
| | | 1 | 12 | 22.73 | 22.67 | 22.68 | 1 | 24 | 22.58 | 22.71 | 22.60 |
| 1 | | 24 | 22.43 | 22.38 | 22.46 | 1 | 49 | 22.45 | 22.46 | 22.36 | |
| 12 | | 0 | 21.53 | 21.39 | 21.61 | 25 | 0 | 21.43 | 21.57 | 21.49 | |
| 12 | | 6 | 21.64 | 21.49 | 21.67 | 25 | 12 | 21.51 | 21.48 | 21.50 | |
| 12 | | 13 | 21.49 | 21.46 | 21.55 | 25 | 25 | 21.67 | 21.52 | 21.47 | |
| 16QAM | 25 | 0 | 21.50 | 21.41 | 21.57 | 50 | 0 | 21.50 | 21.46 | 21.53 | |
| | 1 | 0 | 21.81 | 21.80 | 21.77 | 1 | 0 | 21.84 | 21.67 | 21.77 | |
| | 1 | 12 | 22.05 | 21.86 | 22.09 | 1 | 24 | 22.20 | 21.97 | 22.19 | |
| | 1 | 24 | 22.00 | 21.90 | 21.94 | 1 | 49 | 21.87 | 21.86 | 22.00 | |
| | 12 | 0 | 20.51 | 20.42 | 20.58 | 25 | 0 | 20.47 | 20.51 | 20.46 | |
| | 12 | 6 | 20.62 | 20.47 | 20.59 | 25 | 12 | 20.57 | 20.49 | 20.72 | |
| 64QAM | 12 | 13 | 20.70 | 20.47 | 20.55 | 25 | 25 | 20.68 | 20.45 | 20.55 | |
| | 25 | 0 | 20.58 | 20.54 | 20.66 | 50 | 0 | 20.49 | 20.44 | 20.63 | |
| | 1 | 0 | 20.45 | 20.45 | 20.45 | 1 | 0 | 20.51 | 20.56 | 20.59 | |
| | 1 | 12 | 20.58 | 20.56 | 20.48 | 1 | 24 | 20.48 | 20.58 | 20.47 | |
| | 1 | 24 | 20.49 | 20.52 | 20.65 | 1 | 49 | 20.57 | 20.38 | 20.56 | |
| | 12 | 0 | 19.44 | 19.31 | 19.48 | 25 | 0 | 19.40 | 19.28 | 19.45 | |
| QPSK | 12 | 6 | 19.54 | 19.43 | 19.35 | 25 | 12 | 19.43 | 19.38 | 19.33 | |
| | 12 | 13 | 19.43 | 19.43 | 19.36 | 25 | 25 | 19.45 | 19.25 | 19.42 | |
| | 25 | 0 | 19.32 | 19.46 | 19.46 | 50 | 0 | 19.38 | 19.39 | 19.35 | |

| LTE Band 2 Maximum Average Power (dBm) | | | | | | | | | | |
|--|------|--------|--------------|-------|---------------------------|------|--------|--------------|-------|-------|
| Modulation | RB | | Test Channel | | | RB | | Test Channel | | |
| | Size | Offset | Low | Mid | High | Size | Offset | Low | Mid | High |
| Channel Bandwidth: 15 MHz | | | | | Channel Bandwidth: 20 MHz | | | | | |
| QPSK | 1 | 0 | 22.40 | 22.28 | 22.41 | 1 | 0 | 22.49 | 22.43 | 22.46 |
| | 1 | 37 | 22.71 | 22.70 | 22.70 | 1 | 50 | 22.75 | 22.73 | 22.74 |
| | 1 | 74 | 22.45 | 22.41 | 22.44 | 1 | 99 | 22.54 | 22.47 | 22.52 |
| | 37 | 0 | 21.38 | 21.45 | 21.60 | 50 | 0 | 21.57 | 21.58 | 21.61 |
| | 37 | 19 | 21.60 | 21.60 | 21.65 | 50 | 25 | 21.71 | 21.64 | 21.68 |
| | 37 | 39 | 21.59 | 21.47 | 21.54 | 50 | 50 | 21.68 | 21.62 | 21.60 |
| | 75 | 0 | 21.60 | 21.45 | 21.59 | 100 | 0 | 21.64 | 21.57 | 21.64 |
| 16QAM | 1 | 0 | 21.84 | 21.67 | 21.80 | 1 | 0 | 21.98 | 21.84 | 21.96 |
| | 1 | 37 | 22.11 | 22.03 | 22.15 | 1 | 50 | 22.22 | 22.06 | 22.22 |
| | 1 | 74 | 21.88 | 21.82 | 21.95 | 1 | 99 | 22.04 | 21.95 | 22.01 |
| | 37 | 0 | 20.54 | 20.56 | 20.62 | 50 | 0 | 20.61 | 20.57 | 20.65 |
| | 37 | 19 | 20.70 | 20.62 | 20.75 | 50 | 25 | 20.74 | 20.62 | 20.77 |
| | 37 | 39 | 20.75 | 20.50 | 20.51 | 50 | 50 | 20.78 | 20.58 | 20.66 |
| | 75 | 0 | 20.55 | 20.51 | 20.58 | 100 | 0 | 20.67 | 20.59 | 20.68 |
| 64QAM | 1 | 0 | 20.53 | 20.57 | 20.59 | 1 | 0 | 20.59 | 20.58 | 20.63 |
| | 1 | 37 | 20.55 | 20.44 | 20.53 | 1 | 50 | 20.64 | 20.63 | 20.56 |
| | 1 | 74 | 20.58 | 20.42 | 20.47 | 1 | 99 | 20.63 | 20.56 | 20.65 |
| | 37 | 0 | 19.52 | 19.44 | 19.43 | 50 | 0 | 19.58 | 19.47 | 19.49 |
| | 37 | 19 | 19.50 | 19.35 | 19.33 | 50 | 25 | 19.62 | 19.53 | 19.43 |
| | 37 | 39 | 19.55 | 19.33 | 19.53 | 50 | 50 | 19.61 | 19.45 | 19.53 |
| | 75 | 0 | 19.45 | 19.37 | 19.29 | 100 | 0 | 19.47 | 19.52 | 19.48 |

4.5.2 LTE Band 4

| LTE Band 4 Maximum Average Power (dBm) | | | | | | | | | | |
|--|------|--------|--------------|-------|--------------------------|------|--------|--------------|-------|-------|
| Modulation | RB | | Test Channel | | | RB | | Test Channel | | |
| | Size | Offset | Low | Mid | High | Size | Offset | Low | Mid | High |
| Channel Bandwidth: 1.4 MHz | | | | | Channel Bandwidth: 3 MHz | | | | | |
| QPSK | 1 | 0 | 22.20 | 22.27 | 22.31 | 1 | 0 | 22.33 | 22.30 | 22.26 |
| | 1 | 2 | 22.62 | 22.54 | 22.46 | 1 | 7 | 22.50 | 22.63 | 22.53 |
| | 1 | 5 | 22.34 | 22.42 | 22.32 | 1 | 14 | 22.43 | 22.37 | 22.47 |
| | 3 | 0 | 22.53 | 22.37 | 22.39 | 8 | 0 | 21.38 | 21.42 | 21.33 |
| | 3 | 1 | 22.56 | 22.41 | 22.54 | 8 | 3 | 21.62 | 21.49 | 21.48 |
| | 3 | 3 | 22.67 | 22.56 | 22.40 | 8 | 7 | 21.65 | 21.43 | 21.55 |
| | 6 | 0 | 21.50 | 21.44 | 21.41 | 15 | 0 | 21.51 | 21.47 | 21.41 |
| 16QAM | 1 | 0 | 21.82 | 21.84 | 21.81 | 1 | 0 | 21.76 | 21.73 | 21.71 |
| | 1 | 2 | 21.96 | 22.03 | 21.93 | 1 | 7 | 22.09 | 22.04 | 22.00 |
| | 1 | 5 | 21.74 | 21.88 | 21.90 | 1 | 14 | 21.84 | 21.96 | 21.89 |
| | 3 | 0 | 21.47 | 21.46 | 21.42 | 8 | 0 | 20.49 | 20.42 | 20.39 |
| | 3 | 1 | 21.44 | 21.51 | 21.63 | 8 | 3 | 20.58 | 20.55 | 20.62 |
| | 3 | 3 | 21.44 | 21.51 | 21.55 | 8 | 7 | 20.53 | 20.53 | 20.53 |
| | 6 | 0 | 20.52 | 20.49 | 20.36 | 15 | 0 | 20.40 | 20.47 | 20.43 |
| 64QAM | 1 | 0 | 20.57 | 20.35 | 20.40 | 1 | 0 | 20.50 | 20.22 | 20.34 |
| | 1 | 2 | 20.46 | 20.32 | 20.30 | 1 | 7 | 20.40 | 20.29 | 20.35 |
| | 1 | 5 | 20.41 | 20.32 | 20.32 | 1 | 14 | 20.39 | 20.31 | 20.44 |
| | 3 | 0 | 20.46 | 19.47 | 19.51 | 8 | 0 | 19.47 | 19.41 | 19.38 |
| | 3 | 1 | 20.42 | 19.26 | 19.33 | 8 | 3 | 19.33 | 19.25 | 19.33 |
| | 3 | 3 | 20.47 | 19.26 | 19.38 | 8 | 7 | 19.46 | 19.38 | 19.50 |
| | 6 | 0 | 19.52 | 19.32 | 19.44 | 15 | 0 | 19.52 | 19.38 | 19.35 |

| LTE Band 4 Maximum Average Power (dBm) | | | | | | | | | | |
|--|------|--------|--------------|-------|-------|---------------------------|--------|--------------|-------|-------|
| Modulation | RB | | Test Channel | | | RB | | Test Channel | | |
| | Size | Offset | Low | Mid | High | Size | Offset | Low | Mid | High |
| Channel Bandwidth: 5 MHz | | | | | | Channel Bandwidth: 10 MHz | | | | |
| QPSK | 1 | 0 | 22.28 | 22.30 | 22.40 | 1 | 0 | 22.25 | 22.31 | 22.26 |
| | 1 | 12 | 22.67 | 22.61 | 22.59 | 1 | 24 | 22.65 | 22.61 | 22.59 |
| | 1 | 24 | 22.43 | 22.45 | 22.36 | 1 | 49 | 22.45 | 22.45 | 22.43 |
| | 12 | 0 | 21.48 | 21.35 | 21.37 | 25 | 0 | 21.36 | 21.40 | 21.34 |
| | 12 | 6 | 21.64 | 21.49 | 21.50 | 25 | 12 | 21.60 | 21.60 | 21.53 |
| | 12 | 13 | 21.64 | 21.53 | 21.55 | 25 | 25 | 21.61 | 21.45 | 21.59 |
| | 25 | 0 | 21.38 | 21.44 | 21.40 | 50 | 0 | 21.53 | 21.46 | 21.35 |
| 16QAM | 1 | 0 | 21.78 | 21.72 | 21.74 | 1 | 0 | 21.69 | 21.77 | 21.76 |
| | 1 | 12 | 22.05 | 21.99 | 21.93 | 1 | 24 | 22.05 | 21.94 | 21.95 |
| | 1 | 24 | 21.82 | 21.82 | 21.83 | 1 | 49 | 21.67 | 21.88 | 21.82 |
| | 12 | 0 | 20.43 | 20.55 | 20.51 | 25 | 0 | 20.42 | 20.48 | 20.42 |
| | 12 | 6 | 20.51 | 20.59 | 20.52 | 25 | 12 | 20.46 | 20.53 | 20.48 |
| | 12 | 13 | 20.59 | 20.61 | 20.51 | 25 | 25 | 20.55 | 20.61 | 20.49 |
| | 25 | 0 | 20.49 | 20.51 | 20.45 | 50 | 0 | 20.43 | 20.55 | 20.39 |
| 64QAM | 1 | 0 | 20.48 | 20.21 | 20.51 | 1 | 0 | 20.50 | 20.22 | 20.47 |
| | 1 | 12 | 20.38 | 20.47 | 20.31 | 1 | 24 | 20.31 | 20.30 | 20.37 |
| | 1 | 24 | 20.40 | 20.24 | 20.47 | 1 | 49 | 20.33 | 20.23 | 20.47 |
| | 12 | 0 | 19.53 | 19.34 | 19.54 | 25 | 0 | 19.48 | 19.45 | 19.51 |
| | 12 | 6 | 19.37 | 19.34 | 19.34 | 25 | 12 | 19.30 | 19.33 | 19.36 |
| | 12 | 13 | 19.37 | 19.33 | 19.46 | 25 | 25 | 19.48 | 19.43 | 19.32 |
| | 25 | 0 | 19.53 | 19.47 | 19.32 | 50 | 0 | 19.54 | 19.42 | 19.32 |
| Channel Bandwidth: 15 MHz | | | | | | Channel Bandwidth: 20 MHz | | | | |
| QPSK | 1 | 0 | 22.33 | 22.21 | 22.28 | 1 | 0 | 22.40 | 22.41 | 22.40 |
| | 1 | 37 | 22.51 | 22.59 | 22.52 | 1 | 50 | 22.67 | 22.65 | 22.66 |
| | 1 | 74 | 22.33 | 22.37 | 22.35 | 1 | 99 | 22.50 | 22.48 | 22.51 |
| | 37 | 0 | 21.37 | 21.37 | 21.46 | 50 | 0 | 21.54 | 21.53 | 21.52 |
| | 37 | 19 | 21.60 | 21.52 | 21.59 | 50 | 25 | 21.65 | 21.61 | 21.67 |
| | 37 | 39 | 21.58 | 21.50 | 21.56 | 50 | 50 | 21.69 | 21.60 | 21.60 |
| | 75 | 0 | 21.39 | 21.48 | 21.46 | 100 | 0 | 21.58 | 21.56 | 21.54 |
| 16QAM | 1 | 0 | 21.74 | 21.71 | 21.74 | 1 | 0 | 21.88 | 21.90 | 21.82 |
| | 1 | 37 | 21.95 | 22.08 | 21.94 | 1 | 50 | 22.10 | 22.11 | 22.08 |
| | 1 | 74 | 21.69 | 21.81 | 21.81 | 1 | 99 | 21.87 | 21.97 | 21.92 |
| | 37 | 0 | 20.39 | 20.54 | 20.40 | 50 | 0 | 20.56 | 20.62 | 20.58 |
| | 37 | 19 | 20.58 | 20.44 | 20.60 | 50 | 25 | 20.63 | 20.64 | 20.66 |
| | 37 | 39 | 20.53 | 20.54 | 20.45 | 50 | 50 | 20.62 | 20.63 | 20.61 |
| | 75 | 0 | 20.42 | 20.50 | 20.39 | 100 | 0 | 20.59 | 20.61 | 20.54 |
| 64QAM | 1 | 0 | 20.50 | 20.20 | 20.32 | 1 | 0 | 20.58 | 20.39 | 20.52 |
| | 1 | 37 | 20.41 | 20.46 | 20.28 | 1 | 50 | 20.47 | 20.47 | 20.45 |
| | 1 | 74 | 20.42 | 20.17 | 20.49 | 1 | 99 | 20.53 | 20.36 | 20.51 |
| | 37 | 0 | 19.59 | 19.30 | 19.53 | 50 | 0 | 19.63 | 19.47 | 19.56 |
| | 37 | 19 | 19.43 | 19.26 | 19.27 | 50 | 25 | 19.47 | 19.44 | 19.44 |
| | 37 | 39 | 19.51 | 19.31 | 19.50 | 50 | 50 | 19.53 | 19.43 | 19.51 |
| | 75 | 0 | 19.47 | 19.37 | 19.35 | 100 | 0 | 19.55 | 19.51 | 19.46 |

4.5.3 LTE Band 5

| LTE Band 5 Maximum Average Power (dBm) | | | | | | | | | | |
|--|------|--------|--------------|-------|-------|---------------------------|--------|--------------|--------------|-------|
| Modulation | RB | | Test Channel | | | RB | | Test Channel | | |
| | Size | Offset | Low | Mid | High | Size | Offset | Low | Mid | High |
| Channel Bandwidth: 1.4 MHz | | | | | | Channel Bandwidth: 3 MHz | | | | |
| QPSK | 1 | 0 | 21.77 | 21.78 | 21.77 | 1 | 0 | 21.84 | 21.80 | 21.86 |
| | 1 | 2 | 21.95 | 21.81 | 21.86 | 1 | 7 | 21.82 | 21.83 | 21.76 |
| | 1 | 5 | 21.83 | 21.92 | 21.86 | 1 | 14 | 21.92 | 21.86 | 21.84 |
| | 3 | 0 | 21.69 | 21.91 | 21.77 | 8 | 0 | 20.77 | 20.77 | 20.75 |
| | 3 | 1 | 21.78 | 21.88 | 21.67 | 8 | 3 | 20.75 | 20.77 | 20.77 |
| | 3 | 3 | 21.83 | 21.85 | 21.86 | 8 | 7 | 20.75 | 20.86 | 20.70 |
| | 6 | 0 | 20.80 | 20.81 | 20.83 | 15 | 0 | 20.75 | 20.82 | 20.77 |
| 16QAM | 1 | 0 | 21.12 | 21.66 | 21.04 | 1 | 0 | 20.96 | 21.54 | 21.00 |
| | 1 | 2 | 20.62 | 21.50 | 21.03 | 1 | 7 | 20.72 | 21.67 | 21.21 |
| | 1 | 5 | 21.20 | 21.38 | 20.99 | 1 | 14 | 21.23 | 21.39 | 21.02 |
| | 3 | 0 | 20.90 | 20.98 | 20.80 | 8 | 0 | 19.78 | 19.95 | 19.89 |
| | 3 | 1 | 20.89 | 20.94 | 20.78 | 8 | 3 | 19.82 | 19.93 | 19.73 |
| | 3 | 3 | 20.92 | 21.01 | 20.77 | 8 | 7 | 19.89 | 20.06 | 19.79 |
| | 6 | 0 | 19.83 | 19.84 | 19.77 | 15 | 0 | 19.90 | 19.87 | 19.89 |
| 64QAM | 1 | 0 | 19.74 | 19.72 | 19.74 | 1 | 0 | 19.76 | 19.69 | 19.78 |
| | 1 | 2 | 19.81 | 19.87 | 19.70 | 1 | 7 | 19.83 | 19.83 | 19.76 |
| | 1 | 5 | 19.70 | 19.71 | 19.78 | 1 | 14 | 19.78 | 19.80 | 19.77 |
| | 3 | 0 | 19.60 | 19.76 | 19.55 | 8 | 0 | 18.60 | 18.57 | 18.70 |
| | 3 | 1 | 19.61 | 19.69 | 19.76 | 8 | 3 | 18.68 | 18.67 | 18.67 |
| | 3 | 3 | 19.66 | 19.60 | 19.64 | 8 | 7 | 18.60 | 18.54 | 18.64 |
| | 6 | 0 | 18.75 | 18.51 | 18.51 | 15 | 0 | 18.73 | 18.48 | 18.69 |
| Channel Bandwidth: 5 MHz | | | | | | Channel Bandwidth: 10 MHz | | | | |
| QPSK | 1 | 0 | 21.74 | 21.68 | 21.94 | 1 | 0 | 21.92 | 21.83 | 21.94 |
| | 1 | 12 | 21.89 | 21.89 | 21.86 | 1 | 24 | 21.97 | 21.98 | 21.96 |
| | 1 | 24 | 21.90 | 21.91 | 21.92 | 1 | 49 | 21.94 | 21.96 | 21.97 |
| | 12 | 0 | 20.83 | 20.86 | 20.68 | 25 | 0 | 20.86 | 20.91 | 20.85 |
| | 12 | 6 | 20.68 | 20.91 | 20.71 | 25 | 12 | 20.84 | 20.95 | 20.87 |
| | 12 | 13 | 20.81 | 20.94 | 20.72 | 25 | 25 | 20.87 | 21.02 | 20.86 |
| | 25 | 0 | 20.65 | 20.83 | 20.88 | 50 | 0 | 20.85 | 20.95 | 20.90 |
| 16QAM | 1 | 0 | 21.06 | 21.60 | 20.97 | 1 | 0 | 21.13 | 21.74 | 21.16 |
| | 1 | 12 | 20.73 | 21.53 | 21.20 | 1 | 24 | 20.78 | 21.70 | 21.22 |
| | 1 | 24 | 21.21 | 21.42 | 21.10 | 1 | 49 | 21.24 | 21.48 | 21.17 |
| | 12 | 0 | 19.86 | 19.96 | 19.86 | 25 | 0 | 19.96 | 20.04 | 19.95 |
| | 12 | 6 | 19.92 | 19.87 | 19.84 | 25 | 12 | 19.97 | 20.06 | 19.93 |
| | 12 | 13 | 19.95 | 19.96 | 19.84 | 25 | 25 | 19.99 | 20.07 | 19.92 |
| | 25 | 0 | 19.73 | 19.88 | 19.90 | 50 | 0 | 19.92 | 19.95 | 19.93 |
| 64QAM | 1 | 0 | 19.69 | 19.80 | 19.73 | 1 | 0 | 19.83 | 19.81 | 19.86 |
| | 1 | 12 | 19.74 | 19.85 | 19.78 | 1 | 24 | 19.88 | 19.92 | 19.84 |
| | 1 | 24 | 19.79 | 19.73 | 19.65 | 1 | 49 | 19.84 | 19.89 | 19.85 |
| | 12 | 0 | 18.68 | 18.67 | 18.69 | 25 | 0 | 18.71 | 18.77 | 18.71 |
| | 12 | 6 | 18.63 | 18.67 | 18.57 | 25 | 12 | 18.69 | 18.79 | 18.76 |
| | 12 | 13 | 18.68 | 18.67 | 18.53 | 25 | 25 | 18.74 | 18.72 | 18.69 |
| | 25 | 0 | 18.78 | 18.56 | 18.54 | 50 | 0 | 18.80 | 18.63 | 18.71 |

4.5.4 LTE Band 7

| LTE Band 7 Maximum Average Power (dBm) | | | | | | | | | | |
|--|------|--------|--------------|-------|---------------------------|------|--------|--------------|-------|-------|
| Modulation | RB | | Test Channel | | | RB | | Test Channel | | |
| | Size | Offset | Low | Mid | High | Size | Offset | Low | Mid | High |
| Channel Bandwidth: 5 MHz | | | | | Channel Bandwidth: 10 MHz | | | | | |
| QPSK | 1 | 0 | 22.39 | 22.47 | 22.41 | 1 | 0 | 22.41 | 22.37 | 22.47 |
| | 1 | 12 | 22.66 | 22.70 | 22.56 | 1 | 24 | 22.77 | 22.69 | 22.60 |
| | 1 | 24 | 22.65 | 22.56 | 22.45 | 1 | 49 | 22.64 | 22.63 | 22.58 |
| | 12 | 0 | 21.57 | 21.63 | 21.56 | 25 | 0 | 21.65 | 21.65 | 21.50 |
| | 12 | 6 | 21.70 | 21.78 | 21.68 | 25 | 12 | 21.71 | 21.69 | 21.61 |
| | 12 | 13 | 21.61 | 21.52 | 21.70 | 25 | 25 | 21.60 | 21.51 | 21.74 |
| | 25 | 0 | 21.67 | 21.57 | 21.55 | 50 | 0 | 21.71 | 21.43 | 21.68 |
| 16QAM | 1 | 0 | 21.47 | 21.70 | 21.56 | 1 | 0 | 21.51 | 21.60 | 21.61 |
| | 1 | 12 | 22.01 | 21.80 | 22.03 | 1 | 24 | 21.90 | 21.80 | 21.91 |
| | 1 | 24 | 21.85 | 21.67 | 21.87 | 1 | 49 | 21.82 | 21.68 | 21.71 |
| | 12 | 0 | 20.50 | 20.54 | 20.42 | 25 | 0 | 20.48 | 20.45 | 20.52 |
| | 12 | 6 | 20.60 | 20.67 | 20.68 | 25 | 12 | 20.70 | 20.63 | 20.52 |
| | 12 | 13 | 20.68 | 20.43 | 20.72 | 25 | 25 | 20.67 | 20.51 | 20.72 |
| | 25 | 0 | 20.63 | 20.45 | 20.63 | 50 | 0 | 20.57 | 20.58 | 20.57 |
| 64QAM | 1 | 0 | 20.50 | 20.53 | 20.66 | 1 | 0 | 20.46 | 20.53 | 20.55 |
| | 1 | 12 | 20.56 | 20.65 | 20.56 | 1 | 24 | 20.66 | 20.63 | 20.49 |
| | 1 | 24 | 20.58 | 20.48 | 20.42 | 1 | 49 | 20.56 | 20.62 | 20.48 |
| | 12 | 0 | 19.62 | 19.56 | 19.44 | 25 | 0 | 19.61 | 19.64 | 19.55 |
| | 12 | 6 | 19.42 | 19.54 | 19.62 | 25 | 12 | 19.48 | 19.57 | 19.64 |
| | 12 | 13 | 19.48 | 19.56 | 19.59 | 25 | 25 | 19.51 | 19.47 | 19.54 |
| | 25 | 0 | 19.50 | 19.56 | 19.58 | 50 | 0 | 19.48 | 19.59 | 19.51 |
| Channel Bandwidth: 15 MHz | | | | | Channel Bandwidth: 20 MHz | | | | | |
| QPSK | 1 | 0 | 22.35 | 22.41 | 22.45 | 1 | 0 | 22.54 | 22.53 | 22.48 |
| | 1 | 37 | 22.66 | 22.80 | 22.67 | 1 | 50 | 22.84 | 22.81 | 22.76 |
| | 1 | 74 | 22.69 | 22.50 | 22.55 | 1 | 99 | 22.69 | 22.64 | 22.64 |
| | 37 | 0 | 21.64 | 21.57 | 21.62 | 50 | 0 | 21.75 | 21.65 | 21.64 |
| | 37 | 19 | 21.83 | 21.72 | 21.61 | 50 | 25 | 21.84 | 21.78 | 21.73 |
| | 37 | 39 | 21.75 | 21.53 | 21.77 | 50 | 50 | 21.78 | 21.70 | 21.77 |
| | 75 | 0 | 21.61 | 21.45 | 21.52 | 100 | 0 | 21.72 | 21.63 | 21.70 |
| 16QAM | 1 | 0 | 21.62 | 21.64 | 21.60 | 1 | 0 | 21.63 | 21.74 | 21.71 |
| | 1 | 37 | 22.00 | 21.96 | 22.08 | 1 | 50 | 22.04 | 21.97 | 22.09 |
| | 1 | 74 | 21.78 | 21.72 | 21.76 | 1 | 99 | 21.89 | 21.78 | 21.89 |
| | 37 | 0 | 20.47 | 20.54 | 20.57 | 50 | 0 | 20.63 | 20.58 | 20.61 |
| | 37 | 19 | 20.74 | 20.63 | 20.63 | 50 | 25 | 20.74 | 20.69 | 20.71 |
| | 37 | 39 | 20.70 | 20.45 | 20.54 | 50 | 50 | 20.73 | 20.61 | 20.73 |
| | 75 | 0 | 20.56 | 20.45 | 20.60 | 100 | 0 | 20.64 | 20.60 | 20.68 |
| 64QAM | 1 | 0 | 20.60 | 20.56 | 20.64 | 1 | 0 | 20.66 | 20.65 | 20.68 |
| | 1 | 37 | 20.55 | 20.68 | 20.47 | 1 | 50 | 20.69 | 20.72 | 20.65 |
| | 1 | 74 | 20.60 | 20.52 | 20.42 | 1 | 99 | 20.63 | 20.68 | 20.62 |
| | 37 | 0 | 19.59 | 19.49 | 19.62 | 50 | 0 | 19.65 | 19.66 | 19.63 |
| | 37 | 19 | 19.43 | 19.62 | 19.64 | 50 | 25 | 19.59 | 19.64 | 19.67 |
| | 37 | 39 | 19.50 | 19.41 | 19.53 | 50 | 50 | 19.62 | 19.58 | 19.68 |
| | 75 | 0 | 19.56 | 19.54 | 19.44 | 100 | 0 | 19.58 | 19.63 | 19.62 |

4.5.5 LTE Band 12

| LTE Band 12 Maximum Average Power (dBm) | | | | | | | | | | |
|---|------|--------|--------------|-------|-------|---------------------------|--------|--------------|--------------|-------|
| Modulation | RB | | Test Channel | | | RB | | Test Channel | | |
| | Size | Offset | Low | Mid | High | Size | Offset | Low | Mid | High |
| Channel Bandwidth: 1.4 MHz | | | | | | Channel Bandwidth: 3 MHz | | | | |
| QPSK | 1 | 0 | 22.13 | 22.21 | 21.98 | 1 | 0 | 22.05 | 22.26 | 22.12 |
| | 1 | 2 | 22.17 | 22.19 | 22.14 | 1 | 7 | 22.09 | 22.18 | 22.09 |
| | 1 | 5 | 21.97 | 22.10 | 22.25 | 1 | 14 | 22.13 | 22.04 | 22.11 |
| | 3 | 0 | 21.81 | 22.17 | 22.08 | 8 | 0 | 20.93 | 21.19 | 20.99 |
| | 3 | 1 | 22.00 | 22.22 | 22.06 | 8 | 3 | 20.99 | 21.06 | 21.14 |
| | 3 | 3 | 21.96 | 22.18 | 22.07 | 8 | 7 | 20.89 | 21.18 | 21.06 |
| | 6 | 0 | 20.94 | 21.18 | 21.03 | 15 | 0 | 21.01 | 21.23 | 21.13 |
| 16QAM | 1 | 0 | 21.77 | 21.12 | 21.32 | 1 | 0 | 21.84 | 21.25 | 21.34 |
| | 1 | 2 | 21.73 | 21.28 | 21.51 | 1 | 7 | 21.73 | 21.32 | 21.50 |
| | 1 | 5 | 21.83 | 21.34 | 21.20 | 1 | 14 | 21.80 | 21.28 | 21.30 |
| | 3 | 0 | 20.89 | 21.05 | 21.16 | 8 | 0 | 19.92 | 20.12 | 20.08 |
| | 3 | 1 | 21.04 | 21.08 | 21.17 | 8 | 3 | 19.95 | 20.22 | 20.10 |
| | 3 | 3 | 20.90 | 21.20 | 21.15 | 8 | 7 | 19.90 | 20.22 | 20.29 |
| | 6 | 0 | 20.00 | 20.26 | 20.07 | 15 | 0 | 20.01 | 20.13 | 20.08 |
| 64QAM | 1 | 0 | 19.95 | 19.73 | 19.78 | 1 | 0 | 19.86 | 19.81 | 19.74 |
| | 1 | 2 | 19.75 | 19.74 | 19.95 | 1 | 7 | 19.80 | 19.87 | 19.88 |
| | 1 | 5 | 19.78 | 19.71 | 19.77 | 1 | 14 | 19.80 | 19.85 | 19.68 |
| | 3 | 0 | 19.99 | 19.87 | 19.99 | 8 | 0 | 18.94 | 18.88 | 18.94 |
| | 3 | 1 | 20.02 | 19.85 | 19.97 | 8 | 3 | 19.00 | 18.85 | 18.98 |
| | 3 | 3 | 19.99 | 19.93 | 19.95 | 8 | 7 | 18.88 | 19.00 | 18.83 |
| | 6 | 0 | 18.78 | 18.78 | 18.96 | 15 | 0 | 18.94 | 18.89 | 18.82 |
| Channel Bandwidth: 5 MHz | | | | | | Channel Bandwidth: 10 MHz | | | | |
| QPSK | 1 | 0 | 22.06 | 22.08 | 21.96 | 1 | 0 | 22.14 | 22.27 | 22.16 |
| | 1 | 12 | 22.08 | 22.25 | 22.23 | 1 | 24 | 22.27 | 22.28 | 22.27 |
| | 1 | 24 | 22.16 | 21.97 | 22.09 | 1 | 49 | 22.17 | 22.12 | 22.26 |
| | 12 | 0 | 20.99 | 21.26 | 20.95 | 25 | 0 | 21.00 | 21.27 | 21.12 |
| | 12 | 6 | 20.98 | 21.15 | 21.06 | 25 | 12 | 21.06 | 21.23 | 21.15 |
| | 12 | 13 | 20.86 | 21.20 | 21.19 | 25 | 25 | 21.02 | 21.20 | 21.23 |
| | 25 | 0 | 21.02 | 21.17 | 21.09 | 50 | 0 | 21.11 | 21.28 | 21.17 |
| 16QAM | 1 | 0 | 21.74 | 21.22 | 21.20 | 1 | 0 | 21.87 | 21.30 | 21.35 |
| | 1 | 12 | 21.74 | 21.35 | 21.39 | 1 | 24 | 21.86 | 21.37 | 21.55 |
| | 1 | 24 | 21.74 | 21.33 | 21.12 | 1 | 49 | 21.88 | 21.43 | 21.32 |
| | 12 | 0 | 19.98 | 20.14 | 20.23 | 25 | 0 | 20.05 | 20.21 | 20.25 |
| | 12 | 6 | 19.93 | 20.19 | 20.27 | 25 | 12 | 20.06 | 20.24 | 20.28 |
| | 12 | 13 | 19.97 | 20.15 | 20.14 | 25 | 25 | 20.08 | 20.23 | 20.31 |
| | 25 | 0 | 19.98 | 20.18 | 20.03 | 50 | 0 | 20.03 | 20.27 | 20.19 |
| 64QAM | 1 | 0 | 19.94 | 19.87 | 19.82 | 1 | 0 | 19.98 | 19.88 | 19.86 |
| | 1 | 12 | 19.85 | 19.90 | 19.79 | 1 | 24 | 19.93 | 19.91 | 19.97 |
| | 1 | 24 | 19.74 | 19.69 | 19.79 | 1 | 49 | 19.89 | 19.86 | 19.87 |
| | 12 | 0 | 18.93 | 18.93 | 19.05 | 25 | 0 | 19.03 | 19.01 | 19.06 |
| | 12 | 6 | 19.04 | 18.84 | 18.99 | 25 | 12 | 19.12 | 18.99 | 19.04 |
| | 12 | 13 | 18.99 | 18.96 | 18.97 | 25 | 25 | 19.01 | 19.02 | 18.98 |
| | 25 | 0 | 18.87 | 18.86 | 18.88 | 50 | 0 | 18.98 | 18.96 | 18.97 |

4.5.6 LTE Band 13

| LTE Band 13 Maximum Average Power (dBm) | | | | | | | | | | |
|---|------|--------|--------------|-------|---------------------------|------|--------|--------------|--------------|------|
| Modulation | RB | | Test Channel | | | RB | | Test Channel | | |
| | Size | Offset | Low | Mid | High | Size | Offset | Low | Mid | High |
| Channel Bandwidth: 5 MHz | | | | | Channel Bandwidth: 10 MHz | | | | | |
| QPSK | 1 | 0 | -0.15 | 21.90 | -0.18 | 1 | 0 | / | 22.01 | / |
| | 1 | 12 | -0.10 | 21.87 | -0.02 | 1 | 24 | / | 22.07 | / |
| | 1 | 24 | -0.17 | 22.01 | -0.11 | 1 | 49 | / | 22.12 | / |
| | 12 | 0 | -0.10 | 20.51 | -0.09 | 25 | 0 | / | 20.66 | / |
| | 12 | 6 | -0.20 | 20.70 | -0.05 | 25 | 12 | / | 20.73 | / |
| | 12 | 13 | -0.15 | 20.84 | -0.01 | 25 | 25 | / | 20.88 | / |
| | 25 | 0 | -0.04 | 20.78 | -0.18 | 50 | 0 | / | 20.84 | / |
| 16QAM | 1 | 0 | -0.01 | 21.29 | -0.20 | 1 | 0 | / | 21.35 | / |
| | 1 | 12 | -0.14 | 21.34 | -0.10 | 1 | 24 | / | 21.40 | / |
| | 1 | 24 | -0.08 | 21.28 | -0.16 | 1 | 49 | / | 21.38 | / |
| | 12 | 0 | -0.14 | 19.69 | -0.15 | 25 | 0 | / | 19.78 | / |
| | 12 | 6 | -0.02 | 19.74 | -0.02 | 25 | 12 | / | 19.85 | / |
| | 12 | 13 | -0.03 | 19.89 | -0.01 | 25 | 25 | / | 19.96 | / |
| | 25 | 0 | -0.15 | 19.77 | -0.03 | 50 | 0 | / | 19.91 | / |
| 64QAM | 1 | 0 | -0.16 | 19.93 | -0.08 | 1 | 0 | / | 20.03 | / |
| | 1 | 12 | -0.01 | 19.87 | -0.11 | 1 | 24 | / | 19.97 | / |
| | 1 | 24 | -0.10 | 19.84 | -0.12 | 1 | 49 | / | 20.04 | / |
| | 12 | 0 | -0.11 | 18.92 | -0.14 | 25 | 0 | / | 18.96 | / |
| | 12 | 6 | -0.08 | 18.96 | -0.06 | 25 | 12 | / | 19.01 | / |
| | 12 | 13 | -0.06 | 18.95 | -0.15 | 25 | 25 | / | 18.98 | / |
| | 25 | 0 | -0.08 | 18.75 | -0.14 | 50 | 0 | / | 18.93 | / |

4.5.7 LTE Band 17

| LTE Band 17 Maximum Average Power (dBm) | | | | | | | | | | |
|---|------|--------|--------------|-------|---------------------------|------|--------|--------------|--------------|-------|
| Modulation | RB | | Test Channel | | | RB | | Test Channel | | |
| | Size | Offset | Low | Mid | High | Size | Offset | Low | Mid | High |
| Channel Bandwidth: 5 MHz | | | | | Channel Bandwidth: 10 MHz | | | | | |
| QPSK | 1 | 0 | 21.45 | 21.65 | 21.48 | 1 | 0 | 21.61 | 21.68 | 21.64 |
| | 1 | 12 | 21.64 | 21.59 | 21.57 | 1 | 24 | 21.67 | 21.75 | 21.65 |
| | 1 | 24 | 21.47 | 21.60 | 21.62 | 1 | 49 | 21.63 | 21.76 | 21.73 |
| | 12 | 0 | 20.40 | 20.53 | 20.49 | 25 | 0 | 20.60 | 20.67 | 20.51 |
| | 12 | 6 | 20.56 | 20.64 | 20.44 | 25 | 12 | 20.62 | 20.70 | 20.58 |
| | 12 | 13 | 20.62 | 20.62 | 20.50 | 25 | 25 | 20.64 | 20.78 | 20.67 |
| | 25 | 0 | 20.42 | 20.58 | 20.50 | 50 | 0 | 20.59 | 20.65 | 20.53 |
| 16QAM | 1 | 0 | 20.69 | 20.58 | 20.68 | 1 | 0 | 20.73 | 20.75 | 20.82 |
| | 1 | 12 | 20.31 | 20.70 | 20.84 | 1 | 24 | 20.38 | 20.74 | 20.94 |
| | 1 | 24 | 20.48 | 20.53 | 20.60 | 1 | 49 | 20.67 | 20.71 | 20.80 |
| | 12 | 0 | 19.62 | 19.59 | 19.67 | 25 | 0 | 19.74 | 19.69 | 19.69 |
| | 12 | 6 | 19.73 | 19.70 | 19.66 | 25 | 12 | 19.78 | 19.72 | 19.70 |
| | 12 | 13 | 19.73 | 19.72 | 19.62 | 25 | 25 | 19.80 | 19.77 | 19.75 |
| | 25 | 0 | 19.65 | 19.49 | 19.64 | 50 | 0 | 19.71 | 19.64 | 19.65 |
| 64QAM | 1 | 0 | 19.30 | 19.34 | 19.55 | 1 | 0 | 19.47 | 19.51 | 19.60 |
| | 1 | 12 | 19.20 | 19.48 | 19.69 | 1 | 24 | 19.24 | 19.59 | 19.83 |
| | 1 | 24 | 19.43 | 19.51 | 19.56 | 1 | 49 | 19.54 | 19.52 | 19.60 |
| | 12 | 0 | 18.43 | 18.41 | 18.46 | 25 | 0 | 18.57 | 18.53 | 18.51 |
| | 12 | 6 | 18.54 | 18.61 | 18.44 | 25 | 12 | 18.61 | 18.61 | 18.47 |
| | 12 | 13 | 18.51 | 18.33 | 18.53 | 25 | 25 | 18.70 | 18.51 | 18.57 |
| | 25 | 0 | 18.44 | 18.43 | 18.32 | 50 | 0 | 18.49 | 18.54 | 18.46 |

Pre-scan all bandwidth and RB, find worse case mode are chosen to the report, the LTE worse case mode applicability and tested channel detail as below:

| Item | Band | Bandwidth(MHz) | | | | | | Modulation | | | RB | | | Test Channel | | |
|------------------------|------|----------------|---|---|----|----|----|------------|-------|-------|----|------|------|--------------|---|---|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| ERP/EIRP | 2 | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☒ | ☒ | ☒ |
| | 4 | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☒ | ☒ | ☒ |
| | 5 | ☒ | ☒ | ☒ | ☒ | -- | -- | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☒ | ☒ | ☒ |
| | 7 | - | - | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☒ | ☒ | ☒ |
| | 12 | ☒ | ☒ | ☒ | ☒ | - | - | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☒ | ☒ | ☒ |
| | 13 | - | - | ☒ | ☒ | - | - | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☒ | ☒ | ☒ |
| | 17 | - | - | ☒ | ☒ | - | - | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☒ | ☒ | ☒ |
| Conducted output power | 2 | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ |
| | 4 | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ |
| | 5 | ☒ | ☒ | ☒ | ☒ | -- | -- | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ |
| | 7 | - | - | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ |
| | 12 | ☒ | ☒ | ☒ | ☒ | - | - | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ |
| | 13 | - | - | ☒ | ☒ | - | - | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ |
| | 17 | - | - | ☒ | ☒ | - | - | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ |

| Item | Band | Bandwidth(MHz) | | | | | | Modulation | | | RB | | | Test Channel | | |
|-----------------------|------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| 99%&26dB Bandwidth | 2 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 4 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 5 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | -- | -- | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 7 | - | - | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 12 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | - | - | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 13 | - | - | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | - | - | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 17 | - | - | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | - | - | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| peak-to-average ratio | 2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 4 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 5 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | -- | -- | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 7 | - | - | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 12 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | - | - | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 13 | - | - | <input type="checkbox"/> | <input checked="" type="checkbox"/> | - | - | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 17 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| Item | Band | Bandwidth(MHz) | | | | | | Modulation | | | RB | | | Test Channel | | |
|--|------|----------------|---|---|----|----|----|------------|-------|-------|----|------|------|--------------|---|---|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| Band Edge at antenna terminals | 2 | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☐ | ☒ | ☒ | ☐ | ☒ |
| | 4 | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☐ | ☒ | ☒ | ☐ | ☒ |
| | 5 | ☒ | ☒ | ☒ | ☒ | -- | -- | ☒ | ☒ | ☒ | ☒ | ☐ | ☒ | ☒ | ☐ | ☒ |
| | 7 | - | - | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☐ | ☒ | ☒ | ☐ | ☒ |
| | 12 | ☒ | ☒ | ☒ | ☒ | - | - | ☒ | ☒ | ☒ | ☒ | ☐ | ☒ | ☒ | ☐ | ☒ |
| | 13 | - | - | ☒ | ☒ | - | - | ☒ | ☒ | ☒ | ☒ | ☐ | ☒ | ☒ | ☐ | ☒ |
| | 17 | - | - | ☒ | ☒ | - | - | ☒ | ☒ | ☒ | ☒ | ☐ | ☒ | ☒ | ☐ | ☒ |
| Spurious emissions at antenna terminals | 2 | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☒ | ☒ | ☒ |
| | 4 | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☒ | ☒ | ☒ |
| | 5 | ☒ | ☒ | ☒ | ☒ | -- | -- | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☒ | ☒ | ☒ |
| | 7 | - | - | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☒ | ☒ | ☒ |
| | 12 | ☒ | ☒ | ☒ | ☒ | - | - | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☒ | ☒ | ☒ |
| | 13 | - | - | ☒ | ☒ | - | - | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☒ | ☒ | ☒ |
| | 17 | - | - | ☒ | ☒ | - | - | ☒ | ☒ | ☒ | ☒ | ☐ | ☐ | ☒ | ☒ | ☒ |

| Item | Band | Bandwidth(MHz) | | | | | | Modulation | | | RB | | | Test Channel | | |
|---|------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| Field strength of spurious radiation | 2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 4 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 5 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | -- | -- | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 7 | - | - | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 12 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | - | - | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 13 | - | - | <input checked="" type="checkbox"/> | <input type="checkbox"/> | - | - | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 17 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Frequency stability | 2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | 4 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | 5 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | -- | -- | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | 7 | - | - | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | 12 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | - | - | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | 13 | - | - | <input type="checkbox"/> | <input checked="" type="checkbox"/> | - | - | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | 17 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Remark: The mark "☒" means is chosen for testing; The mark "☐" means is not chosen for testing; The mark "-" means is not supported bandwidth | | | | | | | | | | | | | | | | |

5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

| No. | Identity | Document Title |
|-----|--------------------|---|
| 1 | FCC 47 CFR Part 2 | Frequency allocations and radio treaty matters; general rules and regulations |
| 2 | FCC 47 CFR Part 22 | Public Mobile Services |
| 3 | FCC 47 CFR Part 27 | Miscellaneous Wireless Communications Services |
| 4 | FCC 47 CFR Part 24 | Personal Communications Services |
| 5 | ANSI C63.26-2015 | American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services |
| 6 | KDB 971168 D01 | KDB 971168 D01 Power Meas License Digital Systems v03r01 |

5.2 ERP OR EIRP

Test Requirement: FCC 47 CFR Part 2.1046(a)
LTE Band 2: FCC 47 CFR Part 24.232(c)
LTE Band 4: FCC 47 CFR Part 27.50(d)(4)
LTE Band 5: FCC 47 CFR Part 22.913(a)
LTE Band 7: FCC 47 CFR Part 27.50(h)(2)
LTE Band 12 & Band 17: FCC 47 CFR Part 27.50(c)(10)
LTE Band 13: FCC 47 CFR Part 27.50(b)(10)

Test Method: KDB 971168 D01v03r01 Section 5.6 & ANSI C63.26-2015

Limit:

FCC 47 CFR Part 22.913(a):

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

FCC 47 CFR Part 24.232(c):

Mobile and portable stations are limited to 2 watts EIRP.

FCC 47 CFR Part 27.50(d)(4):

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

FCC 47 CFR Part 27.50(c)(10):

Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

FCC 47 CFR Part 27.50(h)(2):

Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

FCC 47 CFR Part 27.50(b)(10):

Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

1. Power is given in terms of effective radiated power (ERP).
2. Applicants in the Los Angeles, CA, area who demonstrate a need to serve both the downtown and fringe areas will be permitted to utilize an ERP of 1 kw at the following mountaintop sites: Santiago Park, Sierra Peak, Mount Lukens, and Mount Wilson.
3. Stations with antennas below 305 m (1,000 ft) (AAT) will be restricted to a maximum power of 1 kw (ERP).
4. Licensees in San Diego, CA, will be permitted to utilize an ERP of 500 watts at the following mountaintop sites: Palomar, Otay, Woodson and Miguel.

Test Procedure:

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$$ERP \text{ or } EIRP = P_{Meas} + G_T - L_c$$

where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas}, typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

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

1) L_c = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

Test Setup: Refer to section 4.2.1 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

Test Data: See table below

5.2.1 LTE Band 2

| LTE Band 2 Maximum EIRP (dBm) | | | | | |
|----------------------------------|------------|-------------|-------------|-------------|--------|
| Channel | QPSK; RB:1 | 16QAM; RB:1 | 64QAM; RB:1 | Limit (dBm) | Result |
| Channel Bandwidth: 1.4MHz | | | | | |
| Lowest | 23.45 | 22.86 | 21.28 | 33.01 | Pass |
| Middle | 23.42 | 22.63 | 21.19 | 33.01 | Pass |
| Highest | 23.41 | 22.91 | 21.29 | 33.01 | Pass |
| Channel Bandwidth: 3MHz | | | | | |
| Lowest | 23.43 | 22.90 | 21.29 | 33.01 | Pass |
| Middle | 23.37 | 22.72 | 21.19 | 33.01 | Pass |
| Highest | 23.31 | 22.75 | 21.16 | 33.01 | Pass |
| Channel Bandwidth: 5MHz | | | | | |
| Lowest | 23.43 | 22.75 | 21.19 | 33.01 | Pass |
| Middle | 23.37 | 22.56 | 21.22 | 33.01 | Pass |
| Highest | 23.38 | 22.79 | 21.35 | 33.01 | Pass |
| Channel Bandwidth: 10MHz | | | | | |
| Lowest | 23.28 | 22.90 | 21.21 | 33.01 | Pass |
| Middle | 23.41 | 22.67 | 21.26 | 33.01 | Pass |
| Highest | 23.30 | 22.89 | 21.29 | 33.01 | Pass |
| Channel Bandwidth: 15MHz | | | | | |
| Lowest | 23.41 | 22.81 | 21.23 | 33.01 | Pass |
| Middle | 23.40 | 22.73 | 21.27 | 33.01 | Pass |
| Highest | 23.40 | 22.85 | 21.29 | 33.01 | Pass |
| Channel Bandwidth: 20MHz | | | | | |
| Lowest | 23.45 | 22.92 | 21.33 | 33.01 | Pass |
| Middle | 23.43 | 22.76 | 21.26 | 33.01 | Pass |
| Highest | 23.44 | 22.92 | 21.35 | 33.01 | Pass |

5.2.2 LTE Band 4

| LTE Band 4 Maximum EIRP (dBm) | | | | | |
|----------------------------------|------------|-------------|-------------|-------------|--------|
| Channel | QPSK; RB:1 | 16QAM; RB:1 | 64QAM; RB:1 | Limit (dBm) | Result |
| Channel Bandwidth: 1.4MHz | | | | | |
| Lowest | 23.37 | 22.66 | 21.27 | 30.00 | Pass |
| Middle | 23.26 | 22.73 | 21.05 | 30.00 | Pass |
| Highest | 23.10 | 22.63 | 21.10 | 30.00 | Pass |
| Channel Bandwidth: 3MHz | | | | | |
| Lowest | 23.20 | 22.79 | 21.20 | 30.00 | Pass |
| Middle | 23.33 | 22.74 | 20.92 | 30.00 | Pass |
| Highest | 23.23 | 22.70 | 21.04 | 30.00 | Pass |
| Channel Bandwidth: 5MHz | | | | | |
| Lowest | 23.37 | 22.75 | 21.18 | 30.00 | Pass |
| Middle | 23.31 | 22.69 | 20.91 | 30.00 | Pass |
| Highest | 23.29 | 22.63 | 21.21 | 30.00 | Pass |
| Channel Bandwidth: 10MHz | | | | | |
| Lowest | 23.35 | 22.75 | 21.20 | 30.00 | Pass |
| Middle | 23.31 | 22.64 | 20.92 | 30.00 | Pass |
| Highest | 23.29 | 22.65 | 21.17 | 30.00 | Pass |
| Channel Bandwidth: 15MHz | | | | | |
| Lowest | 23.21 | 22.65 | 21.20 | 30.00 | Pass |
| Middle | 23.29 | 22.78 | 20.90 | 30.00 | Pass |
| Highest | 23.22 | 22.64 | 21.02 | 30.00 | Pass |
| Channel Bandwidth: 20MHz | | | | | |
| Lowest | 23.37 | 22.80 | 21.28 | 30.00 | Pass |
| Middle | 23.35 | 22.81 | 21.09 | 30.00 | Pass |
| Highest | 23.36 | 22.78 | 21.22 | 30.00 | Pass |

5.2.3 LTE Band 5

| LTE Band 5 Maximum ERP (dBm) | | | | | |
|----------------------------------|------------|-------------|-------------|-------------|--------|
| Channel | QPSK; RB:1 | 16QAM; RB:1 | 64QAM; RB:1 | Limit (dBm) | Result |
| Channel Bandwidth: 1.4MHz | | | | | |
| Lowest | 19.10 | 18.27 | 16.96 | 38.45 | Pass |
| Middle | 18.96 | 18.81 | 17.02 | 38.45 | Pass |
| Highest | 19.01 | 18.19 | 16.85 | 38.45 | Pass |
| Channel Bandwidth: 3MHz | | | | | |
| Lowest | 19.07 | 17.87 | 16.98 | 38.45 | Pass |
| Middle | 19.01 | 18.82 | 16.98 | 38.45 | Pass |
| Highest | 18.99 | 18.36 | 16.91 | 38.45 | Pass |
| Channel Bandwidth: 5MHz | | | | | |
| Lowest | 18.89 | 18.21 | 16.89 | 38.45 | Pass |
| Middle | 18.83 | 18.75 | 17.00 | 38.45 | Pass |
| Highest | 19.09 | 18.12 | 16.93 | 38.45 | Pass |
| Channel Bandwidth: 10MHz | | | | | |
| Lowest | 19.12 | 18.28 | 17.03 | 38.45 | Pass |
| Middle | 19.13 | 18.89 | 17.07 | 38.45 | Pass |
| Highest | 19.11 | 18.31 | 16.99 | 38.45 | Pass |

5.2.4 LTE Band 7

| LTE Band 7 Maximum EIRP (dBm) | | | | | |
|---------------------------------|------------|-------------|-------------|-------------|--------|
| Channel | QPSK; RB:1 | 16QAM; RB:1 | 64QAM; RB:1 | Limit (dBm) | Result |
| Channel Bandwidth: 5MHz | | | | | |
| Lowest | 23.36 | 22.71 | 21.20 | 33.01 | Pass |
| Middle | 23.40 | 22.50 | 21.23 | 33.01 | Pass |
| Highest | 23.26 | 22.73 | 21.36 | 33.01 | Pass |
| Channel Bandwidth: 10MHz | | | | | |
| Lowest | 23.47 | 22.60 | 21.36 | 33.01 | Pass |
| Middle | 23.39 | 22.50 | 21.33 | 33.01 | Pass |
| Highest | 23.30 | 22.61 | 21.19 | 33.01 | Pass |
| Channel Bandwidth: 15MHz | | | | | |
| Lowest | 23.36 | 22.70 | 21.25 | 33.01 | Pass |
| Middle | 23.50 | 22.66 | 21.38 | 33.01 | Pass |
| Highest | 23.37 | 22.78 | 21.17 | 33.01 | Pass |
| Channel Bandwidth: 20MHz | | | | | |
| Lowest | 23.54 | 22.74 | 21.39 | 33.01 | Pass |
| Middle | 23.51 | 22.67 | 21.42 | 33.01 | Pass |
| Highest | 23.46 | 22.79 | 21.35 | 33.01 | Pass |

5.2.5 LTE Band 12

| LTE Band 12 Maximum ERP (dBm) | | | | | |
|----------------------------------|------------|-------------|-------------|-------------|--------|
| Channel | QPSK; RB:1 | 16QAM; RB:1 | 64QAM; RB:1 | Limit (dBm) | Result |
| Channel Bandwidth: 1.4MHz | | | | | |
| Lowest | 17.72 | 17.58 | 15.77 | 34.77 | Pass |
| Middle | 17.85 | 17.09 | 15.60 | 34.77 | Pass |
| Highest | 18.00 | 16.95 | 15.72 | 34.77 | Pass |
| Channel Bandwidth: 3MHz | | | | | |
| Lowest | 17.80 | 17.59 | 15.55 | 34.77 | Pass |
| Middle | 18.01 | 17.00 | 15.62 | 34.77 | Pass |
| Highest | 17.87 | 17.09 | 15.63 | 34.77 | Pass |
| Channel Bandwidth: 5MHz | | | | | |
| Lowest | 17.83 | 17.49 | 15.69 | 34.77 | Pass |
| Middle | 18.00 | 17.10 | 15.62 | 34.77 | Pass |
| Highest | 17.98 | 17.14 | 15.57 | 34.77 | Pass |
| Channel Bandwidth: 10MHz | | | | | |
| Lowest | 18.02 | 17.63 | 15.73 | 34.77 | Pass |
| Middle | 18.03 | 17.18 | 15.63 | 34.77 | Pass |
| Highest | 18.02 | 17.07 | 15.61 | 34.77 | Pass |

5.2.6 LTE Band 13

| LTE Band 13 Maximum ERP (dBm) | | | | | |
|---------------------------------|------------|-------------|-------------|-------------|--------|
| Channel | QPSK; RB:1 | 16QAM; RB:1 | 64QAM; RB:1 | Limit (dBm) | Result |
| Channel Bandwidth: 5MHz | | | | | |
| Lowest | 17.69 | 17.76 | 17.68 | 34.77 | Pass |
| Middle | 16.97 | 17.09 | 16.98 | 34.77 | Pass |
| Highest | 15.61 | 15.68 | 15.62 | 34.77 | Pass |
| Channel Bandwidth: 10MHz | | | | | |
| Middle | 17.87 | 17.15 | 14.76 | 34.77 | Pass |

5.2.7 LTE Band 17

| LTE Band 17 Maximum ERP (dBm) | | | | | |
|---------------------------------|------------|-------------|-------------|-------------|--------|
| Channel | QPSK; RB:1 | 16QAM; RB:1 | 64QAM; RB:1 | Limit (dBm) | Result |
| Channel Bandwidth: 5MHz | | | | | |
| Lowest | 17.20 | 16.06 | 14.95 | 34.77 | Pass |
| Middle | 17.40 | 16.45 | 15.23 | 34.77 | Pass |
| Highest | 17.23 | 16.59 | 15.44 | 34.77 | Pass |
| Channel Bandwidth: 10MHz | | | | | |
| Lowest | 17.38 | 16.13 | 14.99 | 34.77 | Pass |
| Middle | 17.51 | 16.49 | 15.34 | 34.77 | Pass |
| Highest | 17.48 | 16.69 | 15.58 | 34.77 | Pass |

5.3 CONDUCTED OUTPUT POWER

FCC 47 CFR Part 2.1046(a)

LTE Band 2 & LTE Band 25: FCC 47 CFR Part 24.232(c)

LTE Band 4 & LTE Band 66: FCC 47 CFR Part 27.50(d)(4)

Test Requirement: **LTE Band 5 & LTE Band 26:** FCC 47 CFR Part 22.913(a)

LTE Band 7 & Band 38 & Band 41: FCC 47 CFR Part 27.50(h)(2)

LTE Band 12 & Band 71: FCC 47 CFR Part 27.50(c)(10)

LTE Band 13: FCC 47 CFR Part 27.50(b)(10)

Test Method: KDB 971168 D01v03r01 & ANSI C63.26-2015

Limit:

FCC 47 CFR Part 22.913(a):

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

FCC 47 CFR Part 24.232(c):

Mobile and portable stations are limited to 2 watts EIRP.

FCC 47 CFR Part 27.50(d)(4):

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

FCC 47 CFR Part 27.50(c)(10):

Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

FCC 47 CFR Part 27.50(h)(2):

Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

FCC 47 CFR Part 27.50(b)(10):

Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

1. Power is given in terms of effective radiated power (ERP).
2. Applicants in the Los Angeles, CA, area who demonstrate a need to serve both the downtown and fringe areas will be permitted to utilize an ERP of 1 kw at the following mountaintop sites: Santiago Park, Sierra Peak, Mount Lukens, and Mount Wilson.
3. Stations with antennas below 305 m (1,000 ft) (AAT) will be restricted to a maximum power of 1 kw (ERP).
4. Licensees in San Diego, CA, will be permitted to utilize an ERP of 500 watts at the following mountaintop sites: Palomar, Otay, Woodson and Miguel.

Test Procedure:

The EUT was set up for the maximum power with LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

Test Data: [The full result refer to section 4.5 for details.](#)

5.4 PEAK-TO-AVERAGE RATIO

Test Requirement: LTE Band 2: FCC 47 CFR Part 24.232(d)
 LTE Band 4: FCC 47 CFR Part 27.50(d)(5)
 LTE Band 5: FCC 47 CFR Part 22.913(a)
 LTE Band 7: FCC 47 CFR Part 27.50(d)(5)
 LTE Band 12 & Band 17: FCC 47 CFR Part 27.50(d)(5)
 LTE Band 13: FCC 47 CFR Part 27.50(d)(5)

Test Method: KDB 971168 D01v03r01 Section 5.7

Limit: In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB

Test Procedure:
 The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer.

- Set resolution/measurement bandwidth \geq signal's occupied bandwidth
- Set the number of counts to a value that stabilizes the measured CCDF curve
- Record the maximum PAPR level associated with a probability of 0.1 %

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

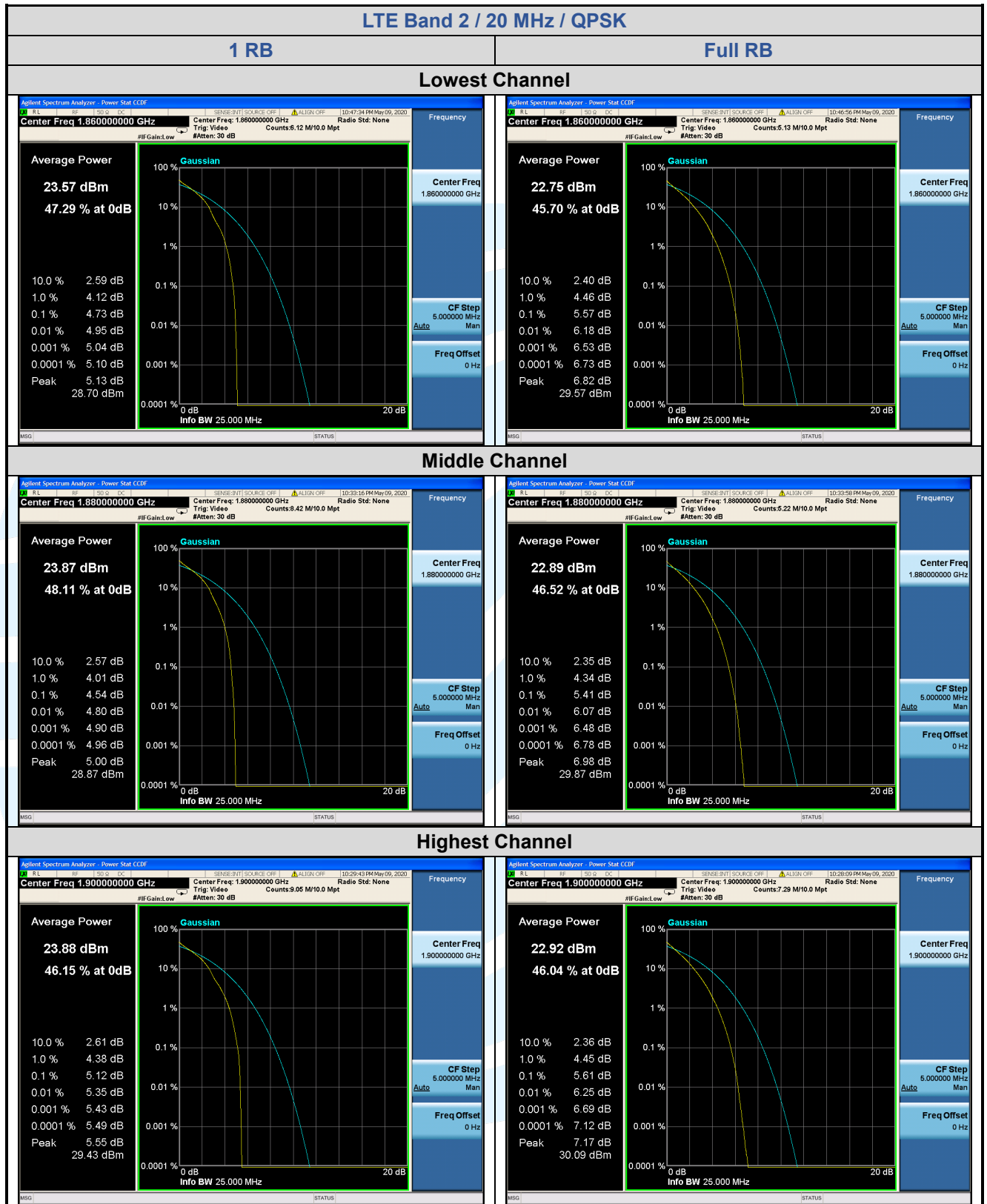
Test Mode: Link mode

Test Results: Pass

Test Data: See table below

5.4.1 LTE Band 2

| LTE Band 2 Peak-to-average ratio (dB) | | | | | | |
|---------------------------------------|------------------|---------------------------|-------|-------|------------|--------|
| Channel | RB Configuration | Channel Bandwidth: 20 MHz | | | Limit (dB) | Result |
| | | QPSK | 16QAM | 64QAM | | |
| Lowest | 1 RB | 4.73 | 5.49 | 5.57 | 13 | Pass |
| | Full RB | 5.57 | 6.36 | 6.34 | 13 | Pass |
| Middle | 1 RB | 4.54 | 5.17 | 5.18 | 13 | Pass |
| | Full RB | 5.41 | 6.19 | 6.19 | 13 | Pass |
| Highest | 1 RB | 5.12 | 6.39 | 6.14 | 13 | Pass |
| | Full RB | 5.61 | 6.35 | 6.36 | 13 | Pass |



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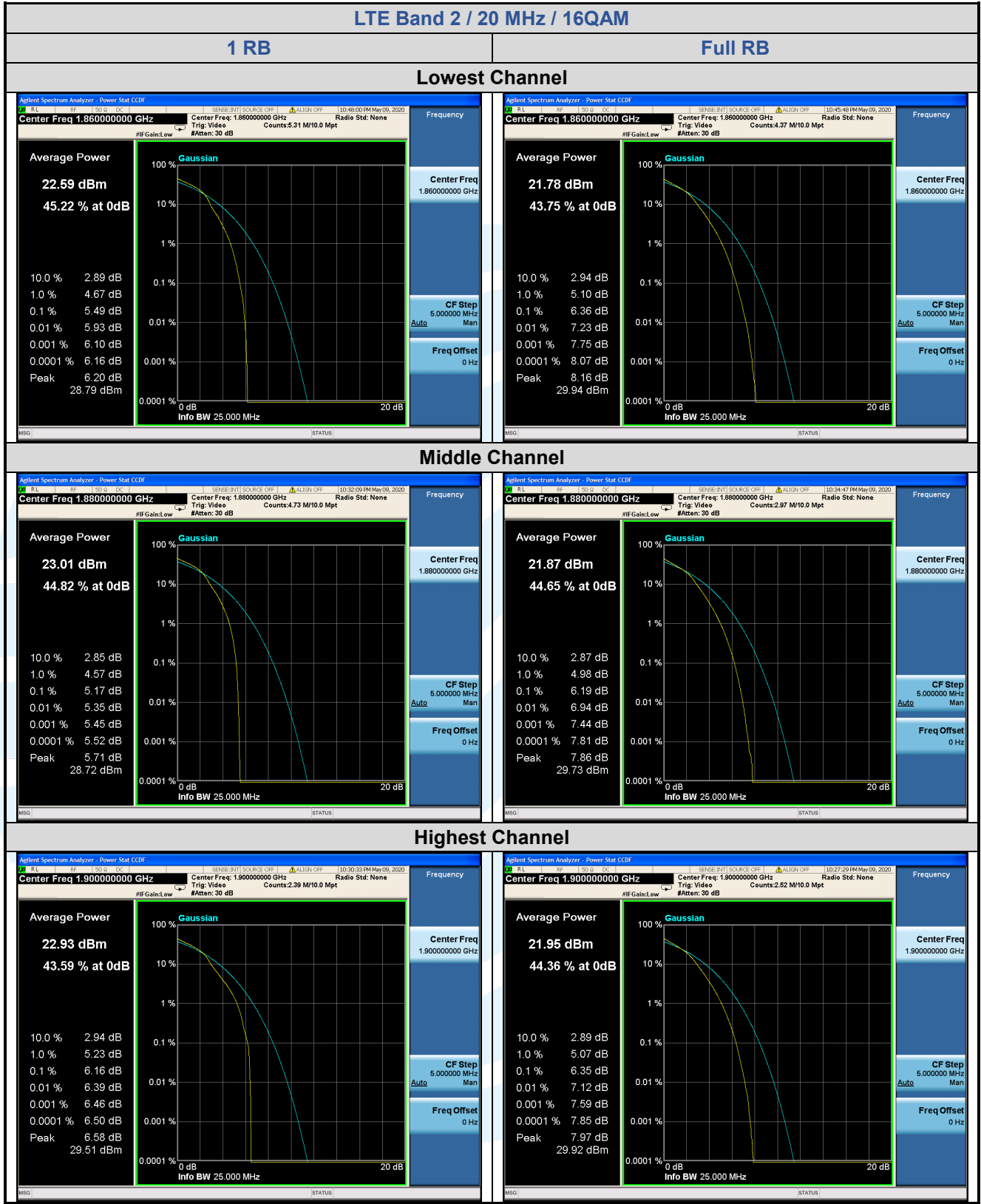
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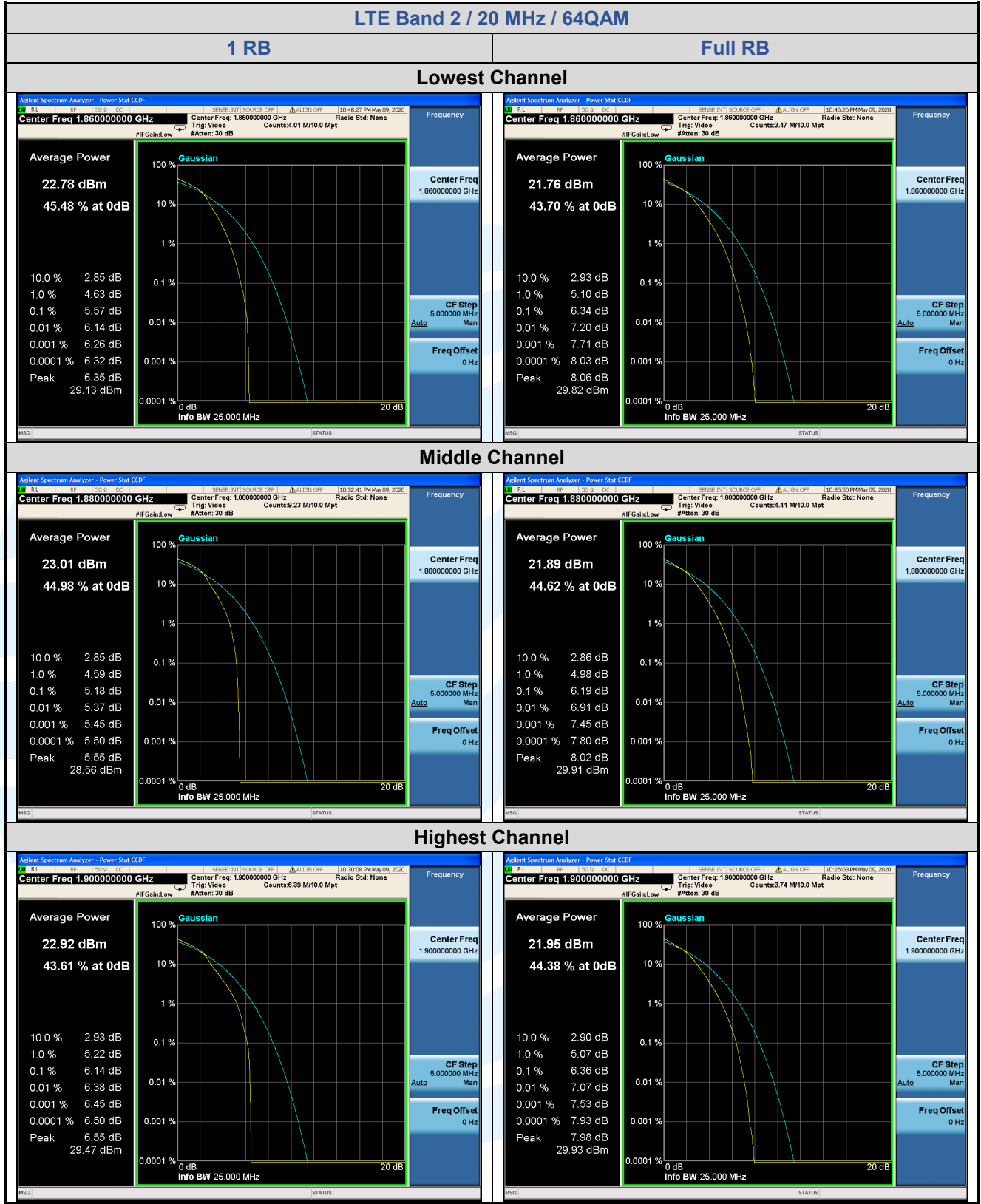
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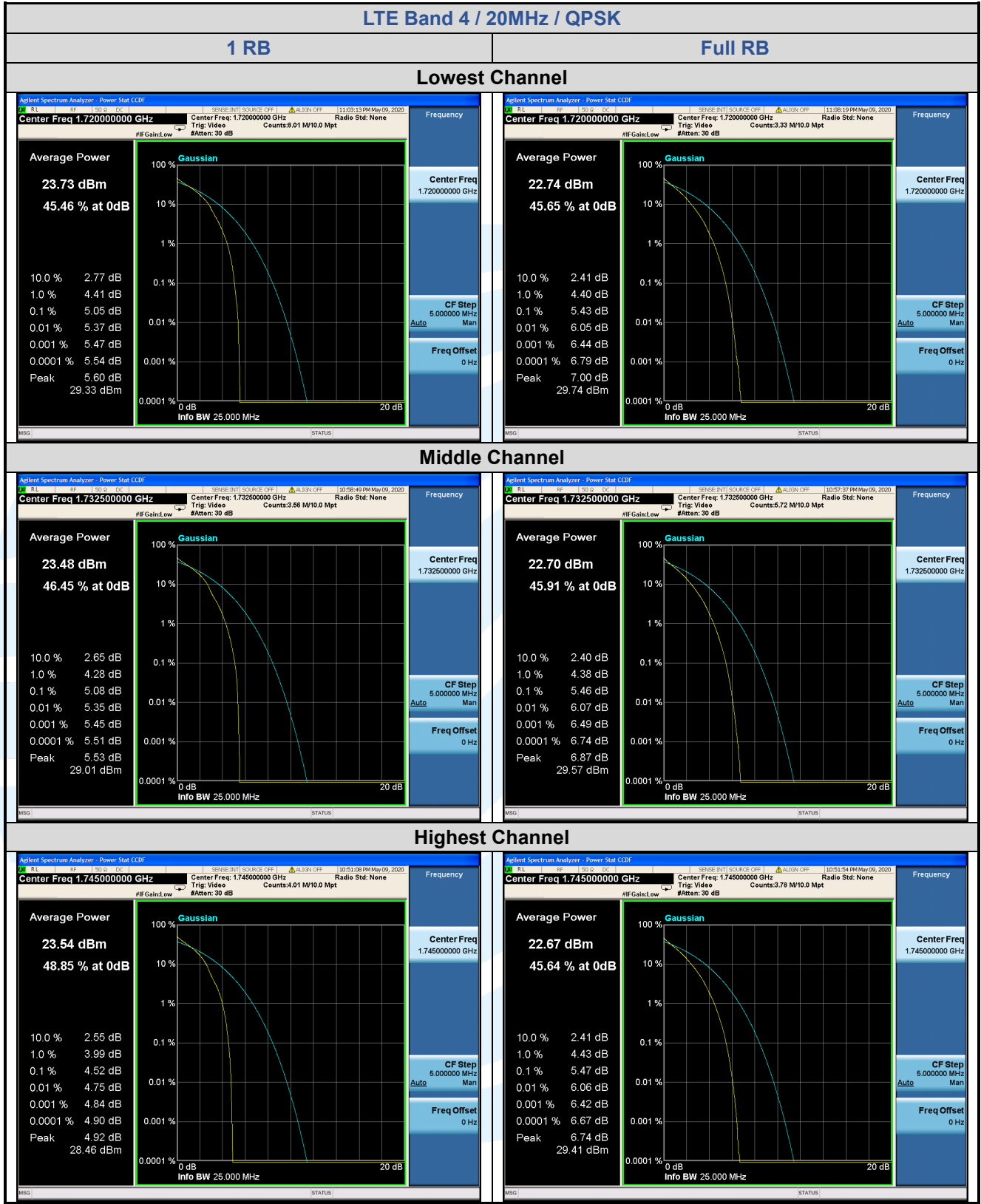
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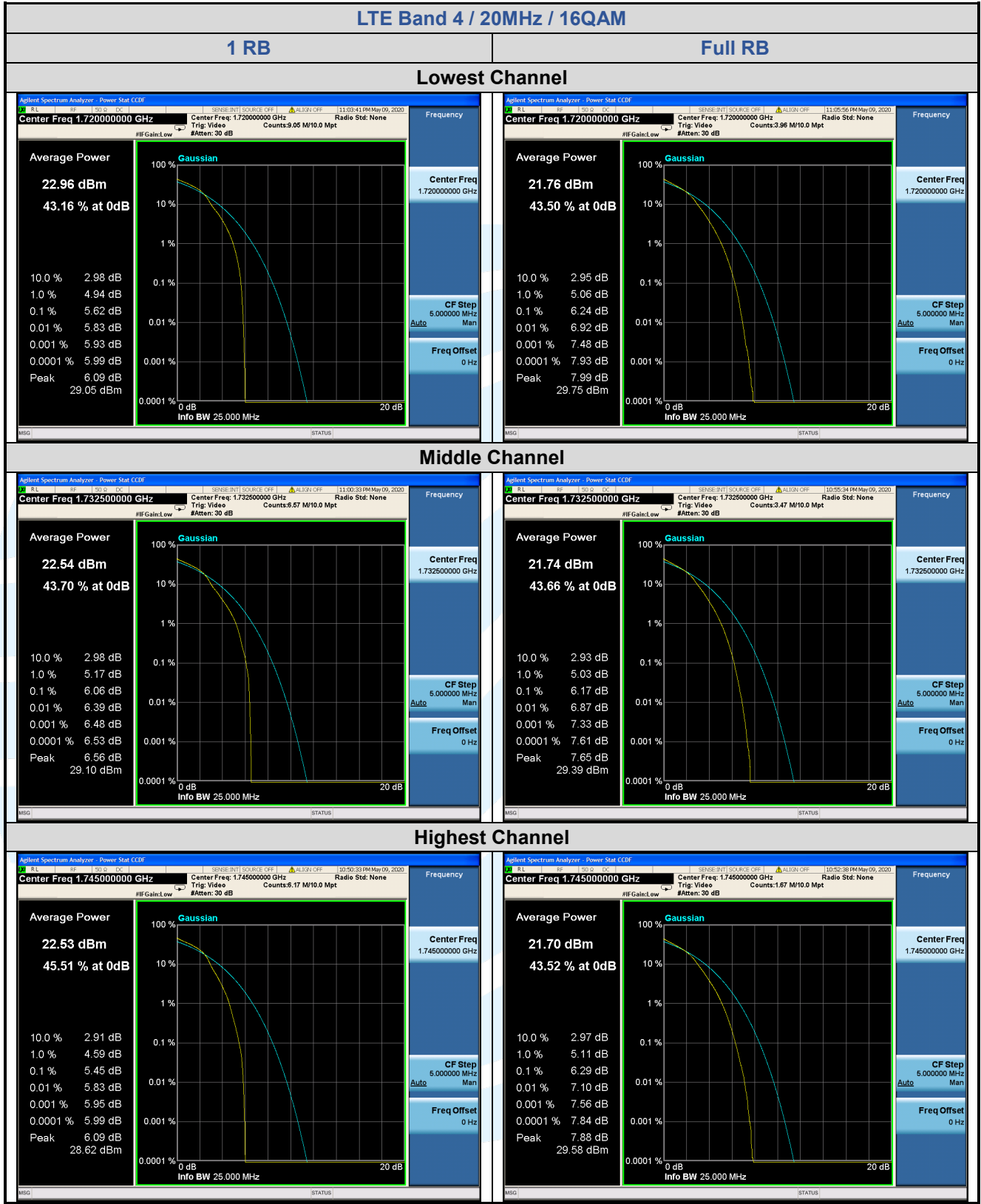
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5.4.2 LTE Band 4

| LTE Band 4 Peak-to-average ratio (dB) | | | | | | |
|---------------------------------------|------------------|---------------------------|-------|-------|------------|--------|
| Channel | RB Configuration | Channel Bandwidth: 20 MHz | | | Limit (dB) | Result |
| | | QPSK | 16QAM | 64QAM | | |
| Lowest | 1 RB | 5.05 | 5.62 | 5.64 | 13 | Pass |
| | Full RB | 5.43 | 6.24 | 6.25 | 13 | Pass |
| Middle | 1 RB | 5.08 | 6.06 | 6.13 | 13 | Pass |
| | Full RB | 5.46 | 6.17 | 6.20 | 13 | Pass |
| Highest | 1 RB | 4.52 | 5.45 | 5.58 | 13 | Pass |
| | Full RB | 5.47 | 6.29 | 6.32 | 13 | Pass |





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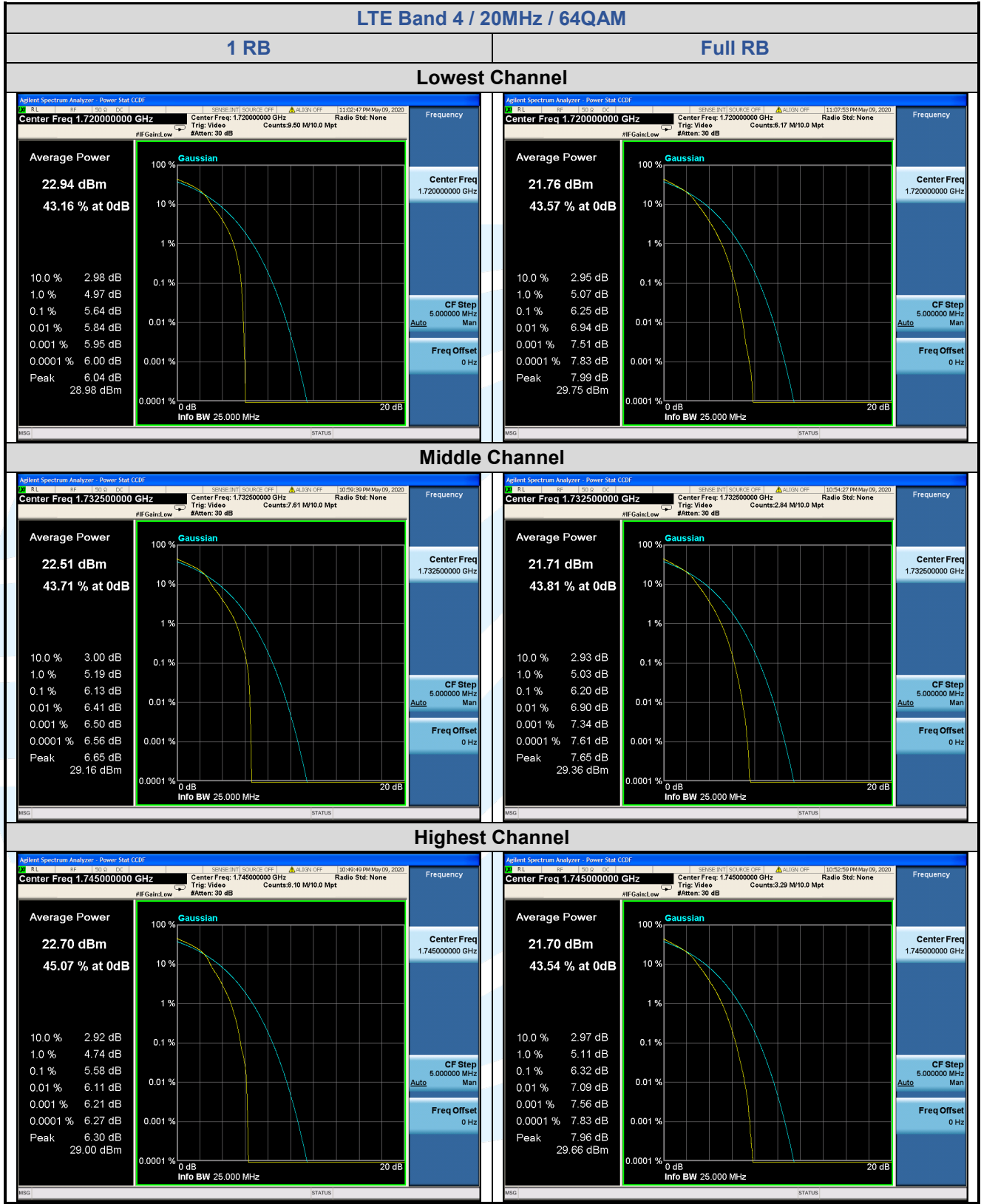
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5.4.3 LTE Band 5

| LTE Band 5 Peak-to-average ratio (dB) | | | | | | |
|---------------------------------------|------------------|---------------------------|-------|-------|------------|--------|
| Channel | RB Configuration | Channel Bandwidth: 10 MHz | | | Limit (dB) | Result |
| | | QPSK | 16QAM | 64QAM | | |
| Lowest | 1 RB | 6.04 | 6.80 | 6.95 | 13 | Pass |
| | Full RB | 5.69 | 6.45 | 6.46 | 13 | Pass |
| Middle | 1 RB | 5.58 | 6.64 | 6.66 | 13 | Pass |
| | Full RB | 5.98 | 6.73 | 6.72 | 13 | Pass |
| Highest | 1 RB | 5.35 | 5.93 | 5.92 | 13 | Pass |
| | Full RB | 5.86 | 6.63 | 6.64 | 13 | Pass |