# CERTIFICATION TEST REPORT

**Report Number. :** 12258201-E7V2

| | | |
|---|---|---|
| **Applicant** | : | APPLE, INC.<br>1 APPLE PARK WAY<br>CUPERTINO, CA 95014, U.S.A. |
| **Model** | : | A2106 |
| **FCC ID** | : | BCG-E3238A |
| **EUT Description** | : | SMARTPHONE |
| **Test Standard(s)** | : | CFR47 PART 22H, 24E, 27, 90S, AND 90R |

**Date Of Issue:**
AUGUST 30, 2018

**Prepared by:**
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Revision History

NVLAP LAB CODE 200065-0 (FREMONT)

| Rev. | Issue Date | Revisions | Revised By |
|---|---|---|---|
| V1 | 8/23/2018 | Initial Review | Mengistu Mekuria |
| V2 | 8/30/2018 | TCB Feedback | Vanessa Moestopo |

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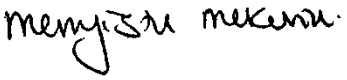
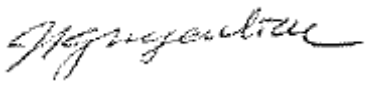
# 1. ATTESTATION OF TEST RESULTS

| | |
|---|---|
| Applicant Name and Address | APPLE, INC.<br>1 APPLE PARK WAY<br>CUPERTINO, CA 95014, U.S.A. |
| Model | A2106 |
| FCC ID | BCG-E3238A |
| EUT Description | SMARTPHONE |
| Serial Number | C7CWN00RK3MY |
| Date Tested | MARCH 19, 2018 to AUGUST 21, 2018 |
| Applicable Standards | CFR47 PART 22H, 24E, 27, 90S, and 90R |
| Test Results | COMPLIES |

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

**Note:** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government (NIST Handbook 150, Annex A). This report is written to support regulatory compliance of the applicable standards stated above.

| Approved & Released By: | Prepared By: |
|---|---|
|  |  |
| Mengistu Mekuria<br>Lead Test Engineer<br>UL Verification Services Inc. | Lieu Nguyen<br>Laboratory Engineer<br>UL Verification Services Inc. |

# 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.26:2015, CFR 47 Part 2, Part 22, Part 24, Part 27, Part 90S, 90R, KDB 971168 D01 v03r01/ D02 v02r01, and KDB 412172 D01 Determining ERP and EIRP v01r01.

# 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

| 47173 Benicia Street | 47266 Benicia Street |
|---|---|
| ☐ Chamber A (IC:2324B-1) | ☐ Chamber D (IC:22541-1) |
| ☐ Chamber B (IC:2324B-2) | ☒ Chamber E (IC:22541-2) |
| ☒ Chamber C (IC:2324B-3) | ☒ Chamber F (IC:22541-3) |
| | ☐ Chamber G (IC:22541-4) |
| | ☐ Chamber H (IC:22541-5) |

The above test sites and facilities are covered under FCC Test Firm Registration # 208313.
UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at NVLAP Lab Search.

# 4. CALIBRATION AND UNCERTAINTY

## 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

## 4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

## 4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER | UNCERTAINTY |
|---|---|
| Conducted Disturbance, 9KHz to 0.15 MHz | 3.84 dB |
| Conducted Disturbance, 0.15 to 30 MHz | 3.65 dB |
| Radiated Disturbance, 9KHz to 30 MHz | 3.15 dB |
| Radiated Disturbance, 30 to 1000 MHz | 5.36 dB |
| Radiated Disturbance,1000 to 18000 MHz | 4.32 dB |
| Radiated Disturbance,18000 to 26000 MHz | 4.45 dB |
| Radiated Disturbance,26000 to 40000 MHz | 5.24 dB |
| Occupied Channel Bandwidth | ±0.39 % |
| Temperature | ±0.9 °C |
| Supply voltages | ±0.45 % |
| Time | ±0.02 % |

Uncertainty figures are valid to a confidence level of 95%.

# 5. EQUIPMENT UNDER TEST

## 5.1. DESCRIPTION OF EUT

The Apple iPhone, is a smartphone with multimedia functions (music, application support, and video), cellular GSM, GPRS, EGPRS, UMTS, LTE, TD-SCDMA, CDMA, IEEE 802.11a/b/g/n/ac, Bluetooth, GPS and NFC. All models support at least one UICC based SIM. The second SIM is either UICC based, electronic SIM (e-SIM), or second SIM is not present. The device has a built-in inductive charging receiver which is not user accessible. The rechargeable battery is not user accessible.

## 5.2. MAXIMUM OUTPUT POWER

**ERP/EIRP LIMIT**

§2.1046, §22.913, §24.232, §27.50, §90.635 and §90.541

**EIRP/ERP TEST PROCEDURE**

ANSI C63.26:2015
KDB 971168 D01 Section 5.6
KDB 412172 D01 Determining ERP and EIRP v01r01

ERP/EIRP = PMeas + GT − LC
where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);
PMeas = measured transmitter output power or PSD, in dBm or dBW;
GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

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

EUT includes different power levels for head use configuration and body use configuration and the below tables contain the highest of all configurations average conducted and ERP/EIRP output powers as follows:

## LTE BAND 2

| Part 24 / RSS 133 | |
|---|---|
| EIRP Limit (W) | 2.00 |
| Antenna Gain (dBi) | 0.20 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 1.4 | QPSK | 1850.7 | 1909.3 | 25.5 | 25.70 | 0.372 | 1090.9 | 1M09G7W |
| | 16QAM | | | 24.8 | 25.00 | 0.316 | 1094.7 | 1M09D7W |
| | 64QAM | | | 23.7 | 23.90 | 0.245 | 1094.6 | 1M09D7W |
| 3.0 | QPSK | 1851.5 | 1908.5 | 25.5 | 25.70 | 0.372 | 2706.8 | 2M71G7W |
| | 16QAM | | | 24.8 | 25.00 | 0.316 | 2701.0 | 2M70D7W |
| | 64QAM | | | 23.6 | 23.80 | 0.240 | 2708.6 | 2M71D7W |
| 5.0 | QPSK | 1852.5 | 1907.5 | 25.5 | 25.70 | 0.372 | 4499.5 | 4M50G7W |
| | 16QAM | | | 25.0 | 25.20 | 0.331 | 4502.3 | 4M50D7W |
| | 64QAM | | | 23.8 | 24.00 | 0.251 | 4496.6 | 4M50D7W |
| 10.0 | QPSK | 1855.0 | 1905.0 | 25.5 | 25.70 | 0.372 | 9012.3 | 9M01G7W |
| | 16QAM | | | 24.8 | 25.00 | 0.316 | 9005.2 | 9M01D7W |
| | 64QAM | | | 23.6 | 23.80 | 0.240 | 8993.8 | 8M99D7W |
| 15.0 | QPSK | 1857.5 | 1902.5 | 25.5 | 25.70 | 0.372 | 13483.0 | 13M5G7W |
| | 16QAM | | | 24.7 | 24.90 | 0.309 | 13469.0 | 13M5D7W |
| | 64QAM | | | 23.6 | 23.80 | 0.240 | 13541.0 | 13M5D7W |
| 20.0 | QPSK | 1860.0 | 1900.0 | 25.5 | 25.70 | 0.372 | 17991.0 | 18M0G7W |
| | 16QAM | | | 24.8 | 25.00 | 0.316 | 17980.0 | 18M0D7W |
| | 64QAM | | | 23.8 | 24.00 | 0.251 | 17953.1 | 18M0D7W |

## LTE BAND 5

| Part 22H | |
|---|---|
| ERP Limit (W) | 7.00 |
| Antenna Gain (dBi) | -3.30 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 1.4 | QPSK | 824.7 | 848.3 | 25.5 | 20.05 | 0.101 | 1091.0 | 1M09G7W |
| | 16QAM | | | 24.8 | 19.35 | 0.086 | 1093.2 | 1M09D7W |
| | 64QAM | | | 23.6 | 18.15 | 0.065 | 1077.4 | 1M08D7W |
| 3.0 | QPSK | 825.5 | 847.5 | 25.5 | 20.05 | 0.101 | 2703.8 | 2M70G7W |
| | 16QAM | | | 24.7 | 19.25 | 0.084 | 2706.4 | 2M71D7W |
| | 64QAM | | | 23.8 | 18.35 | 0.068 | 2689.4 | 2M69D7W |
| 5.0 | QPSK | 826.5 | 846.5 | 25.5 | 20.05 | 0.101 | 4500.7 | 4M50G7W |
| | 16QAM | | | 24.9 | 19.45 | 0.088 | 4499.0 | 4M50D7W |
| | 64QAM | | | 23.8 | 18.35 | 0.068 | 4487.5 | 4M49D7W |
| 10.0 | QPSK | 829.0 | 844.0 | 25.5 | 20.05 | 0.101 | 9019.0 | 9M02G7W |
| | 16QAM | | | 24.7 | 19.25 | 0.084 | 9014.6 | 9M01D7W |
| | 64QAM | | | 23.7 | 18.25 | 0.067 | 8929.2 | 8M93D7W |

## LTE BAND 7

| Part 27 / RSS 199 | |
|---|---|
| EIRP Limit (W) | 2.00 |
| Antenna Gain (dBi) | -0.90 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | QPSK | 2502.5 | 2567.5 | 25.5 | 24.60 | 0.288 | 4495.5 | 4M50G7W |
| | 16QAM | | | 24.8 | 23.90 | 0.245 | 4503.5 | 4M50D7W |
| | 64QAM | | | 23.5 | 22.60 | 0.182 | 4498.0 | 4M50D7W |
| 10.0 | QPSK | 2505.0 | 2565.0 | 25.5 | 24.60 | 0.288 | 9003.5 | 9M00G7W |
| | 16QAM | | | 24.8 | 23.90 | 0.245 | 9011.4 | 9M01D7W |
| | 64QAM | | | 23.5 | 22.60 | 0.182 | 8983.9 | 8M98D7W |
| 15.0 | QPSK | 2507.5 | 2562.5 | 25.5 | 24.60 | 0.288 | 13484.0 | 13M5G7W |
| | 16QAM | | | 24.6 | 23.70 | 0.234 | 13496.0 | 13M5D7W |
| | 64QAM | | | 24.3 | 23.40 | 0.219 | 13495.0 | 13M5D7W |
| 20.0 | QPSK | 2510.0 | 2560.0 | 25.5 | 24.60 | 0.288 | 17982.0 | 18M0G7W |
| | 16QAM | | | 24.8 | 23.90 | 0.245 | 17932.0 | 17M9D7W |
| | 64QAM | | | 24.4 | 23.50 | 0.224 | 17983.0 | 18M0D7W |

## LTE BAND 12

| Part 27 | |
|---|---|
| ERP Limit (W) | 3.00 |
| Antenna Gain (dBi) | -3.60 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 1.4 | QPSK | 699.7 | 715.3 | 25.5 | 19.75 | 0.094 | 1093.3 | 1M09G7W |
| | 16QAM | | | 24.6 | 18.85 | 0.077 | 1093.3 | 1M09D7W |
| | 64QAM | | | 23.7 | 17.95 | 0.062 | 1093.6 | 1M09D7W |
| 3.0 | QPSK | 700.5 | 714.5 | 25.5 | 19.75 | 0.094 | 2703.7 | 2M70G7W |
| | 16QAM | | | 24.7 | 18.95 | 0.079 | 2712.0 | 2M71D7W |
| | 64QAM | | | 23.6 | 17.85 | 0.061 | 2712.1 | 2M71D7W |
| 5.0 | QPSK | 701.5 | 713.5 | 25.5 | 19.75 | 0.094 | 4495.9 | 4M50G7W |
| | 16QAM | | | 24.8 | 19.05 | 0.080 | 4498.8 | 4M50D7W |
| | 64QAM | | | 23.8 | 18.05 | 0.064 | 4507.4 | 4M51D7W |
| 10.0 | QPSK | 704.0 | 711.0 | 25.5 | 19.75 | 0.094 | 8984.0 | 8M98G7W |
| | 16QAM | | | 24.8 | 19.05 | 0.080 | 8952.0 | 8M95D7W |
| | 64QAM | | | 23.6 | 17.85 | 0.061 | 8982.4 | 8M98D7W |

## LTE BAND 13

| Part 27 | |
|---|---|
| ERP Limit (W) | 3.00 |
| Antenna Gain (dBi) | -2.60 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | QPSK | 779.5 | 784.5 | 25.5 | 20.75 | 0.119 | 4505.6 | 4M51G7W |
| | 16QAM | | | 24.9 | 20.15 | 0.104 | 4504.5 | 4M50D7W |
| | 64QAM | | | 23.8 | 19.05 | 0.080 | 4502.1 | 4M50D7W |
| 10.0 | QPSK | 782.0 | 782.0 | 25.5 | 20.75 | 0.119 | 8976.5 | 8M98G7W |
| | 16QAM | | | 24.9 | 20.15 | 0.104 | 8952.7 | 8M95D7W |
| | 64QAM | | | 23.9 | 19.15 | 0.082 | 8912.7 | 8M91D7W |

## LTE BAND 14

| Part 90R | |
|---|---|
| ERP Limit (W) | 3.00 |
| Antenna Gain (dBi) | -2.70 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | QPSK | 790.5 | 795.5 | 25.5 | 20.65 | 0.116 | 4496.4 | 4M50G7W |
| | 16QAM | | | 24.8 | 19.95 | 0.099 | 4490.9 | 4M49D7W |
| | 64QAM | | | 23.7 | 18.85 | 0.077 | 4496.2 | 4M50D7W |
| 10.0 | QPSK | 793.0 | 793.0 | 25.5 | 20.65 | 0.116 | 8995.0 | 9M00G7W |
| | 16QAM | | | 24.7 | 19.85 | 0.097 | 8991.7 | 8M99D7W |
| | 64QAM | | | 23.7 | 18.85 | 0.077 | 8996.6 | 9M00D7W |

## LTE BAND 17

| Part 27 | |
|---|---|
| ERP Limit (W) | 3.00 |
| Antenna Gain (dBi) | -3.60 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | QPSK | 706.5 | 713.5 | 25.5 | 19.75 | 0.094 | 4501.2 | 4M50G7W |
| | 16QAM | | | 24.9 | 19.15 | 0.082 | 4503.0 | 4M50D7W |
| | 64QAM | | | 23.7 | 17.95 | 0.062 | 4501.9 | 4M50D7W |
| 10.0 | QPSK | 709.0 | 711.0 | 25.5 | 19.75 | 0.094 | 8992.6 | 8M99G7W |
| | 16QAM | | | 24.7 | 18.95 | 0.079 | 8995.3 | 9M00D7W |
| | 64QAM | | | 23.6 | 17.85 | 0.061 | 8908.0 | 8M91D7W |

## LTE BAND 25

| Part 24 / RSS 133 | |
|---|---|
| EIRP Limit (W) | 2.00 |
| Antenna Gain (dBi) | 0.20 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 1.4 | QPSK | 1850.7 | 1914.3 | 25.5 | 25.70 | 0.372 | 1086.6 | 1M09G7W |
| | 16QAM | | | 24.8 | 25.00 | 0.316 | 1087.1 | 1M09D7W |
| | 64QAM | | | 23.8 | 24.00 | 0.251 | 1092.7 | 1M09D7W |
| 3.0 | QPSK | 1851.5 | 1913.5 | 25.5 | 25.70 | 0.372 | 2699.4 | 2M70G7W |
| | 16QAM | | | 24.7 | 24.90 | 0.309 | 2684.5 | 2M68D7W |
| | 64QAM | | | 23.5 | 23.70 | 0.234 | 2703.8 | 2M70D7W |
| 5.0 | QPSK | 1852.5 | 1912.5 | 25.5 | 25.70 | 0.372 | 4508.5 | 4M51G7W |
| | 16QAM | | | 25.0 | 25.20 | 0.331 | 4502.3 | 4M50D7W |
| | 64QAM | | | 23.8 | 24.00 | 0.251 | 4502.4 | 4M50D7W |
| 10.0 | QPSK | 1855.0 | 1910.0 | 25.5 | 25.70 | 0.372 | 8993.5 | 8M99G7W |
| | 16QAM | | | 24.7 | 24.90 | 0.309 | 9024.9 | 9M02D7W |
| | 64QAM | | | 23.6 | 23.80 | 0.240 | 8994.9 | 8M99D7W |
| 15.0 | QPSK | 1857.5 | 1907.5 | 25.5 | 25.70 | 0.372 | 13425.9 | 13M4G7W |
| | 16QAM | | | 24.8 | 25.00 | 0.316 | 13439.7 | 13M4D7W |
| | 64QAM | | | 23.6 | 23.80 | 0.240 | 13505.0 | 13M5D7W |
| 20.0 | QPSK | 1860.0 | 1905.0 | 25.5 | 25.70 | 0.372 | 17939.7 | 17M9G7W |
| | 16QAM | | | 24.4 | 24.60 | 0.288 | 17863.1 | 17M9D7W |
| | 64QAM | | | 23.3 | 23.50 | 0.224 | 17856.3 | 17M9D7W |

**LTE BAND 26 (Part 90S)**

| Part 90S | |
|---|---|
| ERP Limit (W) | 100.00 |
| Antenna Gain (dBi) | -3.90 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | ERP Average (dBm) | ERP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 1.4 | QPSK | 814.7 | 823.3 | 25.5 | 19.45 | 0.088 | 1093.1 | 1M09G7W |
| | 16QAM | | | 24.8 | 18.75 | 0.075 | 1092.4 | 1M09D7W |
| | 64QAM | | | 23.9 | 17.85 | 0.061 | 1081.7 | 1M08D7W |
| 3.0 | QPSK | 815.5 | 822.5 | 25.5 | 19.45 | 0.088 | 2705.2 | 2M71G7W |
| | 16QAM | | | 24.6 | 18.55 | 0.072 | 2705.9 | 2M71D7W |
| | 64QAM | | | 23.7 | 17.65 | 0.058 | 2685.7 | 2M69D7W |
| 5.0 | QPSK | 816.5 | 821.5 | 25.5 | 19.45 | 0.088 | 4523.6 | 4M52G7W |
| | 16QAM | | | 24.9 | 18.85 | 0.077 | 4496.2 | 4M50D7W |
| | 64QAM | | | 23.9 | 17.85 | 0.061 | 4467.1 | 4M47D7W |
| 10.0 | QPSK | 819.0 | 819.0 | 25.5 | 19.45 | 0.088 | 9011.9 | 9M01G7W |
| | 16QAM | | | 24.8 | 18.75 | 0.075 | 9010.2 | 9M01D7W |
| | 64QAM | | | 23.9 | 17.85 | 0.061 | 8936.9 | 8M94D7W |

**LTE BAND 30**

| Part 27 / RSS 195 | |
|---|---|
| EIRP Limit (W) | 0.25 |
| Antenna Gain (dBi) | -1.80 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | QPSK | 2307.5 | 2312.5 | 23.5 | 21.70 | 0.148 | 4498.7 | 4M50G7W |
| | 16QAM | | | 23.0 | 21.20 | 0.132 | 4510.4 | 4M51D7W |
| | 64QAM | | | 21.8 | 20.00 | 0.100 | 4498.8 | 4M50D7W |
| 10.0 | QPSK | 2310.0 | 2310.0 | 23.5 | 21.70 | 0.148 | 8978.0 | 8M98G7W |
| | 16QAM | | | 22.6 | 20.80 | 0.120 | 8989.3 | 8M99D7W |
| | 64QAM | | | 21.4 | 19.60 | 0.091 | 8983.7 | 8M98D7W |

**LTE BAND 41**

| Part 27 | |
|---|---|
| EIRP Limit (W) | 2.00 |
| Antenna Gain (dBi) | -0.90 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 5.0 | QPSK | 2498.5 | 2687.5 | 27.0 | 26.10 | 0.407 | 4494.1 | 4M49G7W |
| | 16QAM | | | 25.9 | 25.00 | 0.316 | 4507.0 | 4M51D7W |
| | 64QAM | | | 24.9 | 24.00 | 0.251 | 4501.5 | 4M50D7W |
| 10.0 | QPSK | 2501.0 | 2685.0 | 27.0 | 26.10 | 0.407 | 8985.3 | 8M99G7W |
| | 16QAM | | | 25.9 | 25.00 | 0.316 | 8978.2 | 8M98D7W |
| | 64QAM | | | 24.7 | 23.80 | 0.240 | 9002.5 | 9M00D7W |
| 15.0 | QPSK | 2503.5 | 2682.5 | 27.0 | 26.10 | 0.407 | 13394.0 | 13M4G7W |
| | 16QAM | | | 26.0 | 25.10 | 0.324 | 13493.2 | 13M5D7W |
| | 64QAM | | | 25.1 | 24.20 | 0.263 | 13498.0 | 13M5D7W |
| 20.0 | QPSK | 2506.0 | 2680.0 | 27.0 | 26.10 | 0.407 | 17909.7 | 17M9G7W |
| | 16QAM | | | 26.4 | 25.50 | 0.355 | 17942.2 | 17M9D7W |
| | 64QAM | | | 25.4 | 24.50 | 0.282 | 17954.0 | 18M0D7W |

**LTE BAND 66**

| Part 27 / RSS 139 | |
|---|---|
| EIRP Limit (W) | 1.00 |
| Antenna Gain (dBi) | -0.80 |

| Bandwidth (MHz) | Modulation | Low Frequency (MHz) | Upper Frequency (MHz) | Conducted Average (dBm) | EIRP Average (dBm) | EIRP Average (W) | 99% BW (kHz) | Emission Designator |
|---|---|---|---|---|---|---|---|---|
| 1.4 | QPSK | 1710.7 | 1779.3 | 25.5 | 24.70 | 0.295 | 1089.8 | 1M09G7W |
| | 16QAM | | | 24.8 | 24.00 | 0.251 | 1087.2 | 1M09D7W |
| | 64QAM | | | 23.0 | 22.20 | 0.166 | 1090.6 | 1M09D7W |
| 3.0 | QPSK | 1711.5 | 1778.5 | 25.5 | 24.70 | 0.295 | 2690.4 | 2M69G7W |
| | 16QAM | | | 25.0 | 24.20 | 0.263 | 2684.0 | 2M68D7W |
| | 64QAM | | | 23.2 | 22.40 | 0.174 | 2709.3 | 2M71D7W |
| 5.0 | QPSK | 1712.5 | 1777.5 | 25.5 | 24.70 | 0.295 | 4506.1 | 4M51G7W |
| | 16QAM | | | 24.9 | 24.10 | 0.257 | 4495.4 | 4M50D7W |
| | 64QAM | | | 23.7 | 22.90 | 0.195 | 4493.6 | 4M49D7W |
| 10.0 | QPSK | 1715.0 | 1775.0 | 25.5 | 24.70 | 0.295 | 8993.0 | 8M99G7W |
| | 16QAM | | | 24.8 | 24.00 | 0.251 | 8998.6 | 9M00D7W |
| | 64QAM | | | 23.7 | 22.90 | 0.195 | 8984.3 | 8M98D7W |
| 15.0 | QPSK | 1717.5 | 1772.5 | 25.5 | 24.70 | 0.295 | 13451.0 | 13M5G7W |
| | 16QAM | | | 24.9 | 24.10 | 0.257 | 13436.0 | 13M4D7W |
| | 64QAM | | | 23.5 | 22.70 | 0.186 | 13493.0 | 13M5D7W |
| 20.0 | QPSK | 1720.0 | 1770.0 | 25.5 | 24.70 | 0.295 | 17908.2 | 17M9G7W |
| | 16QAM | | | 24.8 | 24.00 | 0.251 | 17955.2 | 18M0D7W |
| | 64QAM | | | 23.6 | 22.80 | 0.191 | 17949.0 | 17M9D7W |

## 5.3. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was version 00.28.02.

## 5.4. MAXIMUM ANTENNA GAIN

Please see table below:

| Frequency (MHz) | Ant 1 Gain (dBi) | Ant 2 Gain (dBi) |
|---|---|---|
| 660 | -4.7 | -7.5 |
| 670 | -4.7 | -7.2 |
| 680 | -4.9 | -7.0 |
| 690 | -5.4 | -6.9 |
| 700 | -4.9 | -7.0 |
| 710 | -4.1 | -6.8 |
| 720 | -3.6 | -6.8 |
| 770 | -2.6 | -5.5 |
| 780 | -2.6 | -5.6 |
| 790 | -2.7 | -5.8 |
| 800 | -3.3 | -6.0 |
| 810 | -6.4 | -5.5 |
| 820 | -5.8 | -5.2 |
| 830 | -3.9 | -5.5 |
| 840 | -3.7 | -6.0 |
| 850 | -3.3 | -6.1 |
| 860 | -3.0 | -6.3 |
| 1700 | -2.7 | -3.8 |
| 1720 | -2.3 | -3.5 |
| 1740 | -2.2 | -3.5 |
| 1760 | -1.5 | -3.3 |
| 1780 | -0.8 | -3.0 |
| 1840 | 0.1 | -2.1 |
| 1860 | 0.2 | -1.6 |
| 1880 | 0.2 | -1.3 |
| 1900 | 0.2 | -0.7 |
| 1920 | -0.2 | -0.6 |
| 2300 | -1.9 | -2.3 |
| 2320 | -1.8 | -2.8 |
| 2500 | -0.9 | -2.3 |
| 2520 | -1.0 | -1.9 |
| 2540 | -1.5 | -1.7 |
| 2560 | -1.9 | -1.7 |
| 2580 | -2.1 | -1.6 |
| 2600 | -2.6 | -1.8 |
| 2620 | -3.1 | -2.2 |
| 2640 | -3.6 | -2.6 |
| 2660 | -4.3 | -3.3 |
| 2680 | -5.0 | -4.0 |
| 2700 | -5.1 | -4.2 |

## 5.5. WORST-CASE CONFIGURATION AND MODE

The EUT supports LTE Bands of:

Band 2, Band 4, Band 5, Band 7, Band 12, Band 13, Band 14, Band 17, Band 25, Band 26, Band 30, Band 41, and Band 66.

LTE Band 4 (1710-1755MHz) is covered by LTE Band 66 because it is a subset of LTE band 66 and they have same output power.

FCC rule Part 22.905 of LTE Band 26 (824-849MHz) is covered by LTE Band 5 of same rule since they have the same output power and supported bandwidths.

According to the Tune-up procedure, power class 2 (PC2) used to measure LTE band 41 powers.

The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on QPSK, 16QAM and 64QAM modulations. It was found that QPSK and 16QAM results were worst case. All testing was performed using QPSK and 16QAM modulations to represent the worst case.

Conducted tests were performed on Ant. 1 as the worst case since it has higher output powers.

Radiated test was investigated in three orthogonal orientations X, Y and Z on Ant.1 and Ant.2. It was determined that Y (Landscape) orientation was the worst-case orientation for cell, PCS, Band 7, 12, 66, and 41 on Ant 1 and X (Flatbed) orientation for Cell, PCS, band 7, 12, 66, 41 on Ant 2. without AC/DC adapter or earphone.

Radiated spurious emissions were investigated below 30MHz, 30MHz-1GHz and above 1GHz. There were no emissions found on below 30MHz and 30MHz-1GHz within 20dB of the limit.

For simultaneous transmission of multiple channels in the 2.4 / 5 GHz and Cellular bands, No noticeable emission was found.

## 5.6. DESCRIPTION OF TEST SETUP

**SUPPORT EQUIPMENT**

| Support Equipment List | | | |
|---|---|---|---|
| Description | Manufacturer | Model | Serial Number |
| Laptop AC/DC adapter | Delta Electronic | A1343 | ADP-85EBT V85 |
| Laptop | Apple | MacBook Pro | 73008ACB7XJ |

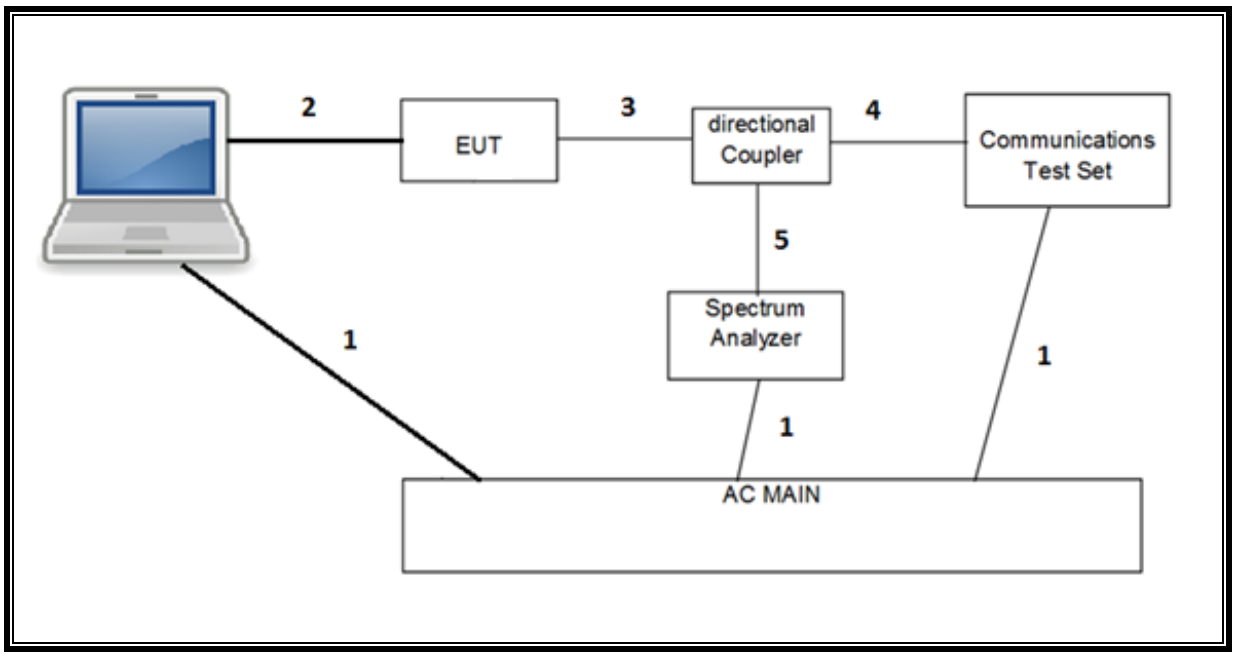
**I/O CABLES (RF Conducted Test)**

| I/O Cable List | | | | | | |
|---|---|---|---|---|---|---|
| Cable No | Port | # of identical ports | Connector Type | Cable Type | Cable Length (m) | Remarks |
| 1 | AC | 3 | US 115V | Un-shielded | 2.0m | N/A |
| 2 | USB | 1 | DC | Un-shielded | 1.0m | N/A |
| 3 | RF In/Out | 1 | EUT | Un-shielded | 0.6m | N/A |
| 4 | RF In/Out | 1 | Communication Test Set | Un-shielded | 1.2m | N/A |
| 5 | RF In/Out | 1 | Barrel | N/A | N/A | N/A |

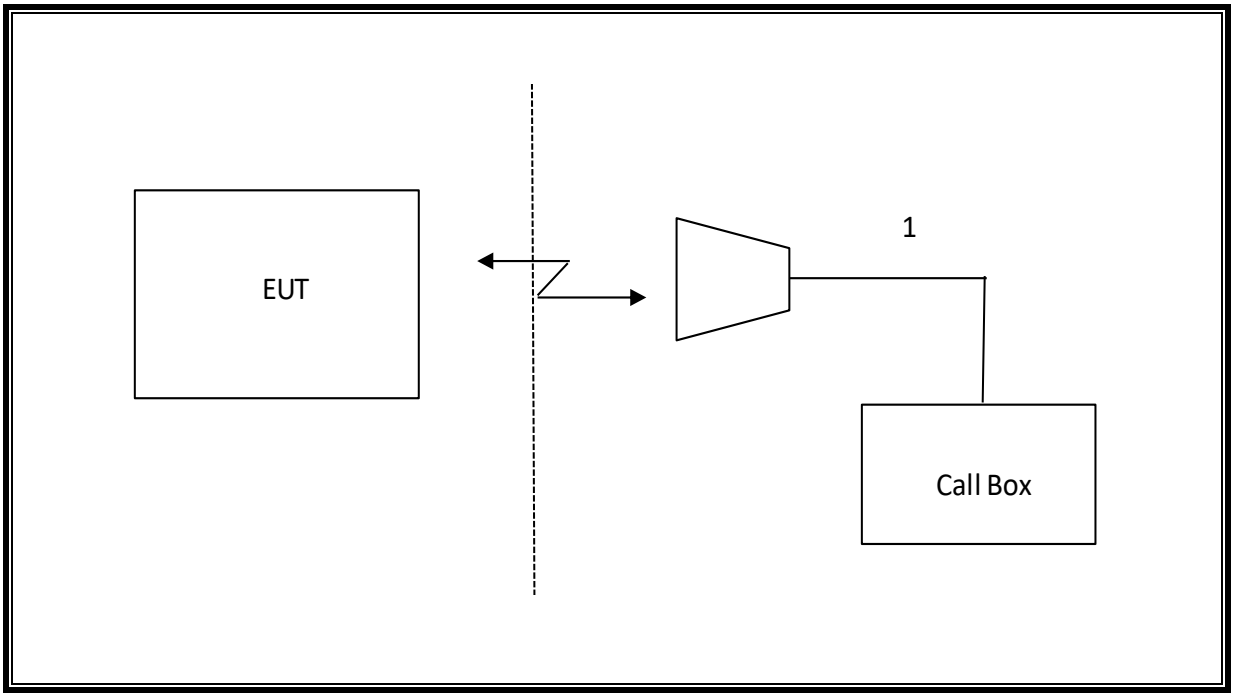
**I/O CABLES (RF Radiated Test)**

| I/O Cable List | | | | | | |
|---|---|---|---|---|---|---|
| Cable No | Port | # of identical ports | Connector Type | Cable Type | Cable Length (m) | Remarks |
| 1 | RF In/Out | 1 | Antenna | Un-shielded | 5.0m | N/A |

**CONDUCTED SETUP**




**RADIATED SETUP**



# 6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

| TEST EQUIPMENT LIST | | | | |
|---|---|---|---|---|
| **Description** | **Manufacturer** | **Model** | **Asset** | **Cal Due** |
| Amplifier, 1 to 18GHz | Miteq | AFS42-00101800-25-S-42 | T931 | 02/24/2019 |
| Antenna, Horn 1-18GHz | ETS Lindgren | 3117 | T120 | 07/02/2019 |
| Spectrum Analyzer, PSA, 3Hz to 44GHz | Keysight | E4446A | T177 | 04/12/2019 |
| Antenna, Horn 1-18GHz | ETS Lindgren | 3117 | T712 | 02/08/2019 |
| Antenna, Broadband Hybrid, 30MHz to 2000MHz | Sunol Sciences | JB3 | T900 | 06/18/2019 |
| Amplifier, 1 to 18GHz | Miteq | AFS42-00101800-25-S-42 | T741 | 12/30/2018 |
| Antenna, Horn 1-18GHz | ETS Lindgren | 3117 | T712 | 02/08/2019 |
| Amplifier, 10KHz to 1GHz, 32dB | Sonoma | 310N | T285 | 07/06/2019 |
| Amplifier, 1 to 8GHz | Miteq | AFS42-00101800-25-S-42 | T1131 | 12/30/2018 |
| Antenna, Horn 1-18GHz | ETS Lindgren | 3117 | T711 | 01/30/2019 |
| Antenna, Broadband Hybrid, 30MHz to 2000MHz | Sunol Sciences | JB3 | T408 | 12/15/2018 |
| Amplifier, 1 to 18GHz | Miteq | AFS42-00101800-25-S-42 | T742 | 12/04/2018 |
| *Amplifier, 10KHz to 1GHz, 32dB | Sonoma | 310N | T173 | 06/24/2018 |
| Power Meter, P-series single channel | Keysight | N1912A | T1244 | 06/13/2019 |
| Power Sensor | Keysight | N1921A | T1226 | 08/30/2018 |
| Wideband Communication Test Set, Call Box | Rohde & Schwarz | CMW500 | T978 | 08/31/2018 |
| Wideband Communication Test Set, Call Box | Rohde & Schwarz | CMW500 | T949 | 02/21/2019 |
| Wideband Communication Test Set, Call Box | Rohde & Schwarz | CMW500 | T979 | 02/17/2019 |
| Wideband Communication Test Set, Call Box | Rohde & Schwarz | CMW500 | T959 | 02/17/2019 |
| Antenna, Active Loop 9KHz to 30MHz | ETS-Lindgren | 6502 | T757 | 09/14/2018 |
| Chamber, Environmental | Cincinnati Sub Zero | ZPHS-8-3.5-SCT/WC | T754 | 09/05/2018 |
| Chamber, Environmental | Cincinnati Sub Zero | ZPHS-8-3.5-SCT/WC | T1154 | 09/05/2018 |
| Directional Coupler | KRYTAR | 152610 | T1537 | 04/27/2019 |
| Directional Coupler | KRYTAR | 152610 | T1536 | 04/27/2019 |
| Filter, HPF 1.2GHz | MICROTRONICS | WHKX1.2/15G-6ST | T1182 | 05/19/2019 |
| *Filter, HPF 4GHz | MICROTRONICS | HPM13351 | T1239 | 08/11/2018 |
| Filter, HPF 3.0GHz | MICROTRONICS | HPM17543 | T487 | 12/04/2018 |
| **UL AUTOMATION SOFTWARE** | | | | |
| CLT Software | UL | UL RF | Ver 1.7, November 2015 | |
| Power Measurement Software | UL | UL RF | Ver 2.2, June 2017 | |

NOTES: *The testing is completed before equipment expiration date.

# 7. RF OUTPUT POWER VERIFICATION

## CONDUCTED OUTPUT POWER MEASUREMENT PROCEDURE

All LTE bands conducted average power is obtained from the CMW500 telecommunication test set.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

**Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3**

| Modulation | Channel bandwidth / Transmission bandwidth ($N_{RB}$) | | | | | | MPR (dB) |
|---|---|---|---|---|---|---|---|
| | 1.4 MHz | 3.0 MHz | 5 MHz | 10 MHz | 15 MHz | 20 MHz | |
| QPSK | > 5 | > 4 | > 8 | > 12 | > 16 | > 18 | ≤ 1 |
| 16 QAM | ≤ 5 | ≤ 4 | ≤ 8 | ≤ 12 | ≤ 16 | ≤ 18 | ≤ 1 |
| 16 QAM | > 5 | > 4 | > 8 | > 12 | > 16 | > 18 | ≤ 2 |
| 64 QAM | ≤ 5 | ≤ 4 | ≤ 8 | ≤ 12 | ≤ 16 | ≤ 18 | ≤ 2 |
| 64 QAM | > 5 | > 4 | > 8 | > 12 | > 16 | > 18 | ≤ 3 |

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".3

**Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)**

| Network Signalling value | Requirements (sub-clause) | E-UTRA Band | Channel bandwidth (MHz) | Resources Blocks ($N_{RB}$) | A-MPR (dB) |
|---|---|---|---|---|---|
| NS_01 | 6.6.2.1.1 | Table 5.5-1 | 1.4, 3, 5, 10, 15, 20 | Table 5.6-1 | NA |
| NS_03 | 6.6.2.2.1 | 2, 4,10, 23, 25, 35, 36 | 3 | >5 | ≤ 1 |
| | | | 5 | >6 | ≤ 1 |
| | | | 10 | >6 | ≤ 1 |
| | | | 15 | >8 | ≤ 1 |
| | | | 20 | >10 | ≤ 1 |
| NS_04 | 6.6.2.2.2 | 41 | 5 | >6 | ≤ 1 |
| | | | 10, 15, 20 | See Table 6.2.4-4 | |
| NS_05 | 6.6.3.3.1 | 1 | 10,15,20 | ≥ 50 | ≤ 1 |
| NS_06 | 6.6.2.2.3 | 12, 13, 14, 17 | 1.4, 3, 5, 10 | Table 5.6-1 | n/a |
| NS_07 | 6.6.2.2.3<br>6.6.3.3.2 | 13 | 10 | Table 6.2.4-2 | Table 6.2.4-2 |
| NS_08 | 6.6.3.3.3 | 19 | 10, 15 | > 44 | ≤ 3 |
| NS_09 | 6.6.3.3.4 | 21 | 10, 15 | > 40 | ≤ 1 |
| | | | | > 55 | ≤ 2 |
| NS_10 | | 20 | 15, 20 | Table 6.2.4-3 | Table 6.2.4-3 |
| NS_11 | 6.6.2.2.1 | 23[1] | 1.4, 3, 5, 10 | Table 6.2.4-5 | Table 6.2.4-5 |
| .. | | | | | |
| NS_32 | - | - | - | - | - |
| Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region. | | | | | |

**MODES TESTED**

- LTE Band 2
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 14
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 30
- LTE Band 41
- LTE Band 66

**RESULTS**

EUT includes different power levels for head use configuration and body use configuration and the below tables contain the highest of all configurations average conducted output powers as follows:

# 7.1. LTE BAND 2

| ID: | 10646 | Date: | 6/3/18 |
|---|---|---|---|

**OUTPUT POWER FOR LTE BAND 2 (1.4 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 18607 | 18900 | 19193 | 18607 | 18900 | 19193 |
| | | | | 1850.7 | 1880.0 | 1909.3 | 1850.7 | 1880.0 | 1909.3 |
| 1.4 | QPSK | 1 | 0 | 25.4 | 25.2 | 25.0 | 19.4 | 19.4 | 19.1 |
| | | 1 | 2 | 25.4 | 25.2 | 24.9 | 19.5 | 19.4 | 19.0 |
| | | 1 | 5 | **25.5** | 25.3 | 25.0 | **19.5** | 19.5 | 19.1 |
| | | 3 | 0 | 25.4 | 25.2 | 24.9 | 19.5 | 19.5 | 19.1 |
| | | 3 | 1 | 25.4 | 25.3 | 24.9 | 19.5 | 19.5 | 19.1 |
| | | 3 | 2 | 25.5 | 25.3 | 25.0 | 19.5 | 19.5 | 19.1 |
| | | 6 | 0 | 24.4 | 24.2 | 23.9 | 18.5 | 18.5 | 18.0 |
| | 16QAM | 1 | 0 | **24.8** | 24.6 | 24.3 | 18.8 | 18.7 | 18.4 |
| | | 1 | 2 | 24.7 | 24.5 | 24.2 | 18.7 | 18.7 | 18.3 |
| | | 1 | 5 | 24.8 | 24.6 | 24.3 | 18.8 | **18.8** | 18.3 |
| | | 3 | 0 | 24.6 | 24.5 | 24.1 | 18.7 | 18.6 | 18.2 |
| | | 3 | 1 | 24.6 | 24.5 | 24.1 | 18.7 | 18.6 | 18.2 |
| | | 3 | 2 | 24.6 | 24.4 | 24.1 | 18.7 | 18.6 | 18.2 |
| | | 6 | 0 | 23.5 | 23.3 | 23.0 | 17.6 | 17.6 | 17.2 |
| | 64QAM | 1 | 0 | 23.7 | 23.2 | 23.2 | 17.8 | 17.7 | 17.3 |
| | | 1 | 2 | 23.7 | 23.2 | 23.2 | 17.8 | 17.8 | 17.3 |
| | | 1 | 5 | **23.7** | 23.3 | 23.2 | 17.8 | **17.9** | 17.4 |
| | | 3 | 0 | 23.5 | 23.3 | 23.0 | 17.6 | 17.6 | 17.1 |
| | | 3 | 1 | 23.5 | 23.3 | 23.0 | 17.6 | 17.6 | 17.1 |
| | | 3 | 2 | 23.5 | 23.2 | 23.0 | 17.7 | 17.7 | 17.1 |
| | | 6 | 0 | 22.4 | 22.2 | 21.9 | 16.5 | 16.5 | 16.1 |

**OUTPUT POWER FOR LTE BAND 2 (3.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 18615 | 18900 | 19185 | 18615 | 18900 | 19185 |
| | | | | 1851.5 | 1880.0 | 1908.5 | 1851.5 | 1880.0 | 1908.5 |
| 3.0 | QPSK | 1 | 0 | 25.4 | 25.1 | 24.9 | 19.3 | 19.3 | 19.1 |
| | | 1 | 7 | **25.5** | 25.3 | 25.0 | **19.5** | 19.5 | 19.1 |
| | | 1 | 14 | 25.4 | 25.3 | 25.0 | 19.4 | 19.4 | 19.0 |
| | | 8 | 0 | 24.5 | 24.3 | 24.0 | 18.4 | 18.4 | 18.1 |
| | | 8 | 4 | 24.5 | 24.3 | 24.0 | 18.5 | 18.4 | 18.1 |
| | | 8 | 7 | 24.5 | 24.3 | 24.0 | 18.5 | 18.5 | 18.1 |
| | | 15 | 0 | 24.5 | 24.3 | 24.0 | 18.5 | 18.5 | 18.1 |
| | 16QAM | 1 | 0 | 24.8 | 24.5 | 24.3 | 18.8 | 18.8 | 18.6 |
| | | 1 | 7 | **24.8** | 24.5 | 24.3 | 18.9 | **18.9** | 18.5 |
| | | 1 | 14 | 24.6 | 24.3 | 24.0 | 18.8 | 18.8 | 18.4 |
| | | 8 | 0 | 23.4 | 23.2 | 23.0 | 17.5 | 17.5 | 17.2 |
| | | 8 | 4 | 23.4 | 23.3 | 22.9 | 17.5 | 17.5 | 17.2 |
| | | 8 | 7 | 23.4 | 23.2 | 22.9 | 17.6 | 17.6 | 17.2 |
| | | 15 | 0 | 23.4 | 23.2 | 22.9 | 17.5 | 17.5 | 17.1 |
| | 64QAM | 1 | 0 | 23.6 | 23.3 | 23.0 | 17.6 | 17.5 | 17.4 |
| | | 1 | 7 | **23.6** | 23.3 | 23.1 | 17.6 | 17.7 | 17.3 |
| | | 1 | 14 | 23.5 | 23.3 | 23.1 | **17.7** | 17.7 | 17.1 |
| | | 8 | 0 | 22.4 | 22.2 | 21.9 | 16.5 | 16.5 | 16.1 |
| | | 8 | 4 | 22.4 | 22.2 | 21.9 | 16.5 | 16.5 | 16.1 |
| | | 8 | 7 | 22.4 | 22.2 | 21.9 | 16.5 | 16.5 | 16.1 |
| | | 15 | 0 | 22.3 | 22.1 | 21.9 | 16.4 | 16.5 | 16.1 |

## OUTPUT POWER FOR LTE BAND 2 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 | | | Ant 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Conducted Average (dBm) | | | Conducted Average | | |
| | | | | 18625 | 18900 | 19175 | 18625 | 18900 | 19175 |
| | | | | 1852.5 | 1880.0 | 1907.5 | 1852.5 | 1880.0 | 1907.5 |
| 5.0 | QPSK | 1 | 0 | **25.5** | 25.2 | 25.0 | 19.4 | 19.3 | 19.2 |
| | | 1 | 12 | 25.4 | 25.3 | 25.0 | 19.4 | 19.4 | 19.1 |
| | | 1 | 24 | 25.4 | 25.3 | 25.0 | 19.3 | **19.5** | 19.1 |
| | | 12 | 0 | 24.6 | 24.4 | 24.2 | 18.4 | 18.4 | 18.1 |
| | | 12 | 6 | 24.5 | 24.4 | 24.1 | 18.4 | 18.4 | 18.1 |
| | | 12 | 11 | 24.5 | 24.4 | 24.1 | 18.4 | 18.5 | 18.1 |
| | | 25 | 0 | 24.6 | 24.4 | 24.1 | 18.4 | 18.4 | 18.1 |
| | 16QAM | 1 | 0 | **25.0** | 24.7 | 24.5 | **18.8** | 18.7 | 18.5 |
| | | 1 | 12 | 24.9 | 24.7 | 24.5 | 18.8 | 18.8 | 18.5 |
| | | 1 | 24 | 24.8 | 24.7 | 24.4 | 18.7 | 18.8 | 18.4 |
| | | 12 | 0 | 23.7 | 23.5 | 23.3 | 17.6 | 17.5 | 17.3 |
| | | 12 | 6 | 23.7 | 23.5 | 23.2 | 17.6 | 17.6 | 17.3 |
| | | 12 | 11 | 23.6 | 23.5 | 23.2 | 17.5 | 17.6 | 17.2 |
| | | 25 | 0 | 23.6 | 23.4 | 23.2 | 17.5 | 17.6 | 17.2 |
| | 64QAM | 1 | 0 | **23.8** | 23.4 | 23.3 | 17.6 | 17.5 | 17.5 |
| | | 1 | 12 | 23.7 | 23.5 | 23.3 | 17.7 | 17.7 | 17.4 |
| | | 1 | 24 | 23.6 | 23.6 | 23.2 | 17.6 | **17.7** | 17.4 |
| | | 12 | 0 | 22.6 | 22.4 | 22.2 | 16.5 | 16.4 | 16.2 |
| | | 12 | 6 | 22.6 | 22.5 | 22.1 | 16.4 | 16.5 | 16.3 |
| | | 12 | 11 | 22.5 | 22.5 | 22.1 | 16.4 | 16.5 | 16.2 |
| | | 25 | 0 | 22.5 | 22.4 | 22.1 | 16.4 | 16.5 | 16.1 |

## OUTPUT POWER FOR LTE BAND 2 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 | | | Ant 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Conducted Average (dBm) | | | Conducted Average | | |
| | | | | 18650 | 18900 | 19150 | 18650 | 18900 | 19150 |
| | | | | 1855.0 | 1880.0 | 1905.0 | 1855.0 | 1880.0 | 1905.0 |
| 10.0 | QPSK | 1 | 0 | **25.5** | 25.2 | 25.2 | 19.5 | 19.4 | 19.4 |
| | | 1 | 24 | 25.3 | 25.3 | 25.1 | 19.4 | **19.5** | 19.2 |
| | | 1 | 49 | 25.1 | 25.2 | 25.0 | 19.4 | 19.5 | 19.2 |
| | | 25 | 0 | 24.2 | 24.1 | 24.0 | 18.4 | 18.3 | 18.2 |
| | | 25 | 12 | 24.0 | 24.2 | 24.0 | 18.2 | 18.4 | 18.1 |
| | | 25 | 24 | 24.0 | 24.1 | 23.9 | 18.2 | 18.4 | 18.1 |
| | | 50 | 0 | 24.0 | 24.1 | 23.9 | 18.2 | 18.5 | 18.2 |
| | 16QAM | 1 | 0 | **24.8** | 24.6 | 24.5 | **19.0** | 18.8 | 18.8 |
| | | 1 | 24 | 24.6 | 24.6 | 24.4 | 18.9 | 19.0 | 18.6 |
| | | 1 | 49 | 24.3 | 24.5 | 24.2 | 18.8 | 18.9 | 18.6 |
| | | 25 | 0 | 23.3 | 23.2 | 23.1 | 17.6 | 17.5 | 17.4 |
| | | 25 | 12 | 23.2 | 23.3 | 23.1 | 17.4 | 17.6 | 17.3 |
| | | 25 | 24 | 23.1 | 23.2 | 22.9 | 17.3 | 17.5 | 17.3 |
| | | 50 | 0 | 23.1 | 23.1 | 22.9 | 17.3 | 17.5 | 17.2 |
| | 64QAM | 1 | 0 | **23.6** | 23.3 | 23.4 | 17.8 | 17.6 | **18.5** |
| | | 1 | 24 | 23.4 | 23.4 | 23.2 | 17.6 | 17.7 | 18.3 |
| | | 1 | 49 | 23.2 | 23.3 | 23.1 | 17.6 | 17.7 | 18.2 |
| | | 25 | 0 | 22.3 | 22.1 | 22.1 | 16.5 | 16.5 | 17.4 |
| | | 25 | 12 | 22.1 | 22.2 | 22.0 | 16.3 | 16.5 | 17.3 |
| | | 25 | 24 | 22.1 | 22.1 | 21.9 | 16.3 | 16.5 | 17.2 |
| | | 50 | 0 | 22.0 | 22.1 | 21.9 | 16.3 | 16.5 | 17.2 |

**OUTPUT POWER FOR LTE BAND 2 (15.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 | | | Ant 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Conducted Average | | | Conducted Average | | |
| | | | | 18675 | 18900 | 19125 | 18675 | 18900 | 19125 |
| | | | | 1857.5 | 1880.0 | 1902.5 | 1857.5 | 1880.0 | 1902.5 |
| 15.0 | QPSK | 1 | 0 | **25.5** | 25.2 | 25.3 | 19.4 | 19.2 | 19.4 |
| | | 1 | 37 | 25.2 | 25.4 | 25.2 | 19.3 | **19.5** | 19.3 |
| | | 1 | 74 | 25.1 | 25.3 | 25.1 | 19.2 | 19.4 | 19.1 |
| | | 36 | 0 | 24.2 | 24.2 | 24.2 | 18.2 | 18.2 | 18.3 |
| | | 36 | 16 | 24.1 | 24.3 | 24.2 | 18.1 | 18.4 | 18.2 |
| | | 36 | 35 | 24.0 | 24.2 | 24.0 | 18.0 | 18.3 | 18.1 |
| | | 75 | 0 | 24.1 | 24.3 | 24.2 | 18.1 | 18.4 | 18.3 |
| | 16QAM | 1 | 0 | **24.7** | 24.4 | 24.5 | 18.9 | 18.6 | 18.9 |
| | | 1 | 37 | 24.4 | 24.5 | 24.4 | 18.7 | **18.9** | 18.7 |
| | | 1 | 74 | 24.2 | 24.4 | 24.1 | 18.5 | 18.8 | 18.4 |
| | | 36 | 0 | 23.2 | 23.2 | 23.2 | 17.3 | 17.3 | 17.4 |
| | | 36 | 16 | 23.0 | 23.2 | 23.1 | 17.2 | 17.4 | 17.3 |
| | | 36 | 35 | 22.9 | 23.2 | 22.9 | 17.1 | 17.4 | 17.2 |
| | | 75 | 0 | 22.9 | 23.2 | 23.1 | 17.2 | 17.4 | 17.3 |
| | 64QAM | 1 | 0 | **23.6** | 23.3 | 23.4 | 17.7 | 17.5 | **17.7** |
| | | 1 | 37 | 23.3 | 23.5 | 23.3 | 17.6 | 17.7 | 17.5 |
| | | 1 | 74 | 23.1 | 23.4 | 23.1 | 17.4 | 17.6 | 17.3 |
| | | 36 | 0 | 22.2 | 22.2 | 22.2 | 16.3 | 16.3 | 16.4 |
| | | 36 | 16 | 22.0 | 22.3 | 22.1 | 16.2 | 16.4 | 16.3 |
| | | 36 | 35 | 21.9 | 22.2 | 22.0 | 16.1 | 16.4 | 16.1 |
| | | 75 | 0 | 21.9 | 22.1 | 22.1 | 16.1 | 16.4 | 16.3 |

**OUTPUT POWER FOR LTE BAND 2 (20.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 | | | Ant 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Conducted Average | | | Conducted Average | | |
| | | | | 18700 | 18900 | 19100 | 18700 | 18900 | 19100 |
| | | | | 1860.0 | 1880.0 | 1900.0 | 1860.0 | 1880.0 | 1900.0 |
| 20.0 | QPSK | 1 | 0 | **25.5** | 25.1 | 25.2 | 19.5 | 19.2 | 19.4 |
| | | 1 | 49 | 25.1 | 25.3 | 25.3 | 19.3 | **19.5** | 19.4 |
| | | 1 | 99 | 25.1 | 25.3 | 25.1 | 19.2 | 19.4 | 19.2 |
| | | 50 | 0 | 24.1 | 24.1 | 24.1 | 18.2 | 18.3 | 18.4 |
| | | 50 | 24 | 23.9 | 24.2 | 24.1 | 18.0 | 18.4 | 18.3 |
| | | 50 | 49 | 23.8 | 24.1 | 24.0 | 18.0 | 18.2 | 18.2 |
| | | 100 | 0 | 23.9 | 24.2 | 24.2 | 18.1 | 18.4 | 18.4 |
| | 16QAM | 1 | 0 | **24.8** | 24.4 | 24.6 | **19.0** | 18.6 | 18.9 |
| | | 1 | 49 | 24.4 | 24.6 | 24.5 | 18.8 | 19.0 | 18.8 |
| | | 1 | 99 | 24.5 | 24.6 | 24.3 | 18.6 | 18.8 | 18.6 |
| | | 50 | 0 | 23.1 | 23.2 | 23.2 | 17.2 | 17.3 | 17.4 |
| | | 50 | 24 | 22.9 | 23.2 | 23.1 | 17.1 | 17.4 | 17.3 |
| | | 50 | 49 | 22.8 | 23.1 | 23.0 | 17.0 | 17.3 | 17.2 |
| | | 100 | 0 | 22.9 | 23.2 | 23.2 | 17.1 | 17.5 | 17.4 |
| | 64QAM | 1 | 0 | **23.8** | 23.4 | 23.5 | 17.8 | 17.5 | 17.8 |
| | | 1 | 49 | 23.3 | 23.6 | 23.5 | 17.6 | **17.8** | 17.7 |
| | | 1 | 99 | 23.4 | 23.5 | 23.2 | 17.5 | 17.7 | 17.5 |
| | | 50 | 0 | 22.0 | 22.1 | 22.1 | 16.2 | 16.3 | 16.4 |
| | | 50 | 24 | 21.8 | 22.1 | 22.1 | 16.1 | 16.4 | 16.3 |
| | | 50 | 49 | 21.7 | 22.0 | 22.0 | 16.0 | 16.2 | 16.2 |
| | | 100 | 0 | 21.9 | 22.2 | 22.2 | 16.1 | 16.4 | 16.4 |

# 7.1. LTE BAND 5

| ID: | 39004 | Date: | 6/4/18 |
|---|---|---|---|

**OUTPUT POWER FOR LTE BAND 5 (1.4 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 | | | Ant 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Conducted Average (dBm) | | | Conducted Average | | |
| | | | | 20407 | 20525 | 20643 | 20407 | 20525 | 20643 |
| | | | | 824.7 | 836.5 | 848.3 | 824.7 | 836.5 | 848.3 |
| 1.4 | QPSK | 1 | 0 | 25.4 | 25.3 | 25.0 | 23.4 | 23.4 | 23.1 |
| | | 1 | 2 | 25.4 | 25.3 | 25.0 | 23.4 | 23.3 | 23.1 |
| | | 1 | 5 | **25.5** | 25.4 | 25.1 | 23.4 | 23.4 | 23.2 |
| | | 3 | 0 | 25.4 | 25.4 | 25.1 | 23.4 | 23.4 | 23.1 |
| | | 3 | 1 | 25.4 | 25.4 | 25.1 | 23.4 | 23.4 | 23.1 |
| | | 3 | 2 | 25.4 | 25.4 | 25.1 | **23.5** | 23.4 | 23.1 |
| | | 6 | 0 | 24.3 | 24.4 | 24.1 | 22.4 | 22.4 | 22.1 |
| | 16QAM | 1 | 0 | 24.7 | 24.6 | 24.2 | 22.7 | 22.6 | 22.4 |
| | | 1 | 2 | 24.6 | 24.6 | 24.1 | **22.7** | 22.6 | 22.3 |
| | | 1 | 5 | **24.8** | 24.6 | 24.3 | 22.7 | 22.6 | 22.4 |
| | | 3 | 0 | 24.4 | 24.4 | 24.1 | 22.6 | 22.5 | 22.2 |
| | | 3 | 1 | 24.4 | 24.4 | 24.0 | 22.6 | 22.5 | 22.2 |
| | | 3 | 2 | 24.4 | 24.4 | 24.0 | 22.6 | 22.5 | 22.2 |
| | | 6 | 0 | 23.3 | 23.4 | 23.0 | 21.6 | 21.5 | 21.2 |
| | 64QAM | 1 | 0 | 23.6 | 23.6 | 23.3 | 21.8 | 21.8 | 21.5 |
| | | 1 | 2 | 23.6 | 23.6 | 23.3 | **21.9** | 21.8 | 21.4 |
| | | 1 | 5 | **23.6** | 23.6 | 23.3 | 21.8 | 21.8 | 21.5 |
| | | 3 | 0 | 23.4 | 23.4 | 23.2 | 21.7 | 21.6 | 21.3 |
| | | 3 | 1 | 23.4 | 23.4 | 23.1 | 21.7 | 21.6 | 21.3 |
| | | 3 | 2 | 23.4 | 23.4 | 23.1 | 21.7 | 21.7 | 21.3 |
| | | 6 | 0 | 22.4 | 22.3 | 22.1 | 20.6 | 20.5 | 20.2 |

**OUTPUT POWER FOR LTE BAND 5 (3.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 | | | Ant 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Conducted Average (dBm) | | | Conducted Average (dBm) | | |
| | | | | 20415 | 20525 | 20635 | 20415 | 20525 | 20635 |
| | | | | 825.5 | 836.5 | 847.5 | 825.5 | 836.5 | 847.5 |
| 3.0 | QPSK | 1 | 0 | 25.3 | 25.3 | 25.1 | 23.5 | 23.4 | 23.1 |
| | | 1 | 7 | **25.5** | 25.4 | 25.1 | **23.5** | 23.5 | 23.1 |
| | | 1 | 14 | 25.4 | 25.3 | 25.1 | 23.5 | 23.4 | 23.2 |
| | | 8 | 0 | 24.3 | 24.3 | 24.1 | 22.6 | 22.5 | 22.1 |
| | | 8 | 4 | 24.4 | 24.3 | 24.1 | 22.5 | 22.5 | 22.2 |
| | | 8 | 7 | 24.4 | 24.4 | 24.1 | 22.5 | 22.5 | 22.2 |
| | | 15 | 0 | 24.4 | 24.4 | 24.1 | 22.5 | 22.5 | 22.2 |
| | 16QAM | 1 | 0 | 24.7 | 24.7 | 24.4 | 22.9 | 22.9 | 22.5 |
| | | 1 | 7 | **24.7** | 24.6 | 24.4 | 22.9 | 22.9 | 22.5 |
| | | 1 | 14 | 24.6 | 24.7 | 24.3 | **22.9** | 22.8 | 22.6 |
| | | 8 | 0 | 23.5 | 23.4 | 23.2 | 21.7 | 21.6 | 21.2 |
| | | 8 | 4 | 23.5 | 23.4 | 23.2 | 21.6 | 21.6 | 21.2 |
| | | 8 | 7 | 23.5 | 23.4 | 23.1 | 21.6 | 21.6 | 21.2 |
| | | 15 | 0 | 23.5 | 23.4 | 23.1 | 21.5 | 21.5 | 21.1 |
| | 64QAM | 1 | 0 | 23.7 | 23.5 | 23.3 | 21.7 | 21.8 | 21.4 |
| | | 1 | 7 | **23.8** | 23.6 | 23.3 | 21.8 | 21.7 | 21.4 |
| | | 1 | 14 | 23.8 | 23.6 | 23.3 | **21.8** | 21.8 | 21.5 |
| | | 8 | 0 | 22.5 | 22.4 | 22.2 | 20.7 | 20.6 | 20.2 |
| | | 8 | 4 | 22.5 | 22.4 | 22.2 | 20.6 | 20.6 | 20.3 |
| | | 8 | 7 | 22.6 | 22.4 | 22.2 | 20.6 | 20.6 | 20.3 |
| | | 15 | 0 | 22.5 | 22.4 | 22.1 | 20.5 | 20.5 | 20.2 |

**OUTPUT POWER FOR LTE BAND 5 (5.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 20425 | 20525 | 20625 | 20425 | 20525 | 20625 |
| | | | | 826.5 | 836.5 | 846.5 | 826.5 | 836.5 | 846.5 |
| 5.0 | QPSK | 1 | 0 | 25.4 | 25.3 | 25.2 | 23.5 | 23.4 | 23.2 |
| | | 1 | 12 | 25.4 | 25.3 | 25.1 | 23.5 | 23.4 | 23.1 |
| | | 1 | 24 | **25.5** | 25.3 | 25.2 | **23.5** | 23.5 | 23.2 |
| | | 12 | 0 | 24.5 | 24.4 | 24.2 | 22.4 | 22.4 | 22.1 |
| | | 12 | 6 | 24.5 | 24.4 | 24.2 | 22.4 | 22.4 | 22.1 |
| | | 12 | 11 | 24.5 | 24.5 | 24.2 | 22.4 | 22.4 | 22.1 |
| | | 25 | 0 | 24.5 | 24.5 | 24.3 | 22.5 | 22.4 | 22.1 |
| | 16QAM | 1 | 0 | 24.8 | 24.7 | 24.6 | **22.7** | 22.7 | 22.5 |
| | | 1 | 12 | 24.8 | 24.7 | 24.5 | 22.7 | 22.7 | 22.3 |
| | | 1 | 24 | **24.9** | 24.7 | 24.6 | 22.7 | 22.7 | 22.4 |
| | | 12 | 0 | 23.6 | 23.5 | 23.3 | 21.5 | 21.5 | 21.2 |
| | | 12 | 6 | 23.6 | 23.6 | 23.3 | 21.5 | 21.5 | 21.1 |
| | | 12 | 11 | 23.6 | 23.6 | 23.3 | 21.5 | 21.5 | 21.2 |
| | | 25 | 0 | 23.6 | 23.5 | 23.4 | 21.5 | 21.5 | 21.1 |
| | 64QAM | 1 | 0 | 23.7 | 23.6 | 23.6 | **21.7** | 21.6 | 21.5 |
| | | 1 | 12 | 23.8 | 23.6 | 23.4 | 21.6 | 21.6 | 21.2 |
| | | 1 | 24 | **23.8** | 23.6 | 23.4 | 21.7 | 21.6 | 21.4 |
| | | 12 | 0 | 22.6 | 22.5 | 22.3 | 20.5 | 20.5 | 20.2 |
| | | 12 | 6 | 22.6 | 22.5 | 22.3 | 20.5 | 20.5 | 20.1 |
| | | 12 | 11 | 22.6 | 22.5 | 22.3 | 20.5 | 20.5 | 20.2 |
| | | 25 | 0 | 22.6 | 22.5 | 22.3 | 20.5 | 20.5 | 20.1 |

**OUTPUT POWER FOR LTE BAND 5 (10.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 20450 | 20525 | 20600 | 20450 | 20525 | 20600 |
| | | | | 829.0 | 836.5 | 844.0 | 829.0 | 836.5 | 844.0 |
| 10.0 | QPSK | 1 | 0 | 25.5 | 25.3 | 25.3 | **23.5** | 23.4 | 23.4 |
| | | 1 | 24 | **25.5** | 25.4 | 25.3 | 23.4 | 23.4 | 23.2 |
| | | 1 | 49 | 25.3 | 25.3 | 25.2 | 23.5 | 23.3 | 23.1 |
| | | 25 | 0 | 24.4 | 24.3 | 24.2 | 22.3 | 22.3 | 22.2 |
| | | 25 | 12 | 24.4 | 24.3 | 24.2 | 22.4 | 22.3 | 22.1 |
| | | 25 | 24 | 24.2 | 24.2 | 24.1 | 22.4 | 22.3 | 22.0 |
| | | 50 | 0 | 24.4 | 24.3 | 24.1 | 22.4 | 22.3 | 22.1 |
| | 16QAM | 1 | 0 | 24.6 | 24.5 | 24.5 | **22.9** | 22.8 | 22.8 |
| | | 1 | 24 | **24.7** | 24.5 | 24.5 | 22.9 | 22.8 | 22.6 |
| | | 1 | 49 | 24.5 | 24.6 | 24.4 | 22.8 | 22.8 | 22.4 |
| | | 25 | 0 | 23.4 | 23.3 | 23.2 | 21.5 | 21.4 | 21.3 |
| | | 25 | 12 | 23.5 | 23.3 | 23.2 | 21.5 | 21.4 | 21.2 |
| | | 25 | 24 | 23.3 | 23.3 | 23.2 | 21.5 | 21.4 | 21.1 |
| | | 50 | 0 | 23.4 | 23.2 | 23.1 | 21.5 | 21.4 | 21.2 |
| | 64QAM | 1 | 0 | 23.6 | 23.5 | 23.5 | **21.8** | 21.8 | 21.8 |
| | | 1 | 24 | **23.7** | 23.5 | 23.5 | 21.7 | 21.7 | 21.5 |
| | | 1 | 49 | 23.5 | 23.5 | 23.3 | 21.8 | 21.7 | 21.4 |
| | | 25 | 0 | 22.4 | 22.3 | 22.3 | 20.5 | 20.5 | 20.4 |
| | | 25 | 12 | 22.5 | 22.3 | 22.2 | 20.6 | 20.5 | 20.3 |
| | | 25 | 24 | 22.3 | 22.3 | 22.2 | 20.6 | 20.5 | 20.2 |
| | | 50 | 0 | 22.4 | 22.2 | 22.1 | 20.5 | 20.4 | 20.2 |

## 7.2. LTE BAND 7

| ID: | 10646 | Date: | 6/4/18 |
|---|---|---|---|

**OUTPUT POWER FOR LTE BAND 7 (5.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 20775 | 21100 | 21425 | 20775 | 21100 | 21425 |
| | | | | 2502.5 | 2535.0 | 2567.5 | 2502.5 | 2535.0 | 2567.5 |
| 5.0 | QPSK | 1 | 0 | 25.2 | 25.2 | 25.3 | 21.3 | 21.3 | 21.0 |
| | | 1 | 12 | 25.4 | 25.3 | 25.3 | 21.4 | 21.3 | 21.0 |
| | | 1 | 24 | **25.5** | 25.4 | 25.4 | **21.5** | 21.4 | 21.1 |
| | | 12 | 0 | 24.4 | 24.3 | 24.4 | 20.4 | 20.3 | 20.0 |
| | | 12 | 6 | 24.5 | 24.3 | 24.4 | 20.4 | 20.3 | 20.0 |
| | | 12 | 11 | 24.6 | 24.3 | 24.4 | 20.5 | 20.3 | 20.0 |
| | | 25 | 0 | 24.6 | 24.3 | 24.5 | 20.4 | 20.3 | 20.0 |
| | 16QAM | 1 | 0 | 24.6 | 24.7 | 24.8 | 20.6 | 20.6 | 20.4 |
| | | 1 | 12 | 24.8 | 24.7 | 24.8 | 20.7 | 20.7 | 20.4 |
| | | 1 | 24 | **24.8** | 24.7 | 24.8 | **20.8** | 20.7 | 20.4 |
| | | 12 | 0 | 23.4 | 23.2 | 23.4 | 19.4 | 19.3 | 19.0 |
| | | 12 | 6 | 23.5 | 23.3 | 23.4 | 19.4 | 19.3 | 19.0 |
| | | 12 | 11 | 23.5 | 23.2 | 23.3 | 19.5 | 19.3 | 19.0 |
| | | 25 | 0 | 23.5 | 23.2 | 23.3 | 19.4 | 19.3 | 19.0 |
| | 64QAM | 1 | 0 | 23.4 | 23.4 | 23.5 | 19.5 | 19.4 | 19.2 |
| | | 1 | 12 | 23.5 | 23.4 | 23.5 | 19.6 | 19.5 | 19.2 |
| | | 1 | 24 | 23.5 | 23.4 | **23.5** | **19.7** | 19.6 | 19.2 |
| | | 12 | 0 | 22.1 | 22.1 | 22.2 | 18.3 | 18.2 | 17.9 |
| | | 12 | 6 | 22.3 | 22.1 | 22.2 | 18.3 | 18.2 | 17.9 |
| | | 12 | 11 | 22.3 | 22.1 | 22.2 | 18.3 | 18.2 | 17.9 |
| | | 25 | 0 | 22.3 | 22.1 | 22.2 | 18.3 | 18.2 | 17.9 |

**OUTPUT POWER FOR LTE BAND 7 (10.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 20800 | 21100 | 21400 | 20800 | 21100 | 21400 |
| | | | | 2505.0 | 2535.0 | 2565.0 | 2505.0 | 2535.0 | 2565.0 |
| 10.0 | QPSK | 1 | 0 | 25.0 | 25.1 | 25.2 | 21.2 | 20.9 | 20.7 |
| | | 1 | 24 | 25.3 | 25.2 | 25.3 | 21.3 | 21.0 | 20.8 |
| | | 1 | 49 | **25.5** | 25.2 | 25.3 | **21.5** | 21.0 | 20.8 |
| | | 25 | 0 | 24.4 | 24.1 | 24.3 | 20.3 | 19.9 | 19.7 |
| | | 25 | 12 | 24.4 | 24.1 | 24.3 | 20.3 | 20.0 | 19.7 |
| | | 25 | 24 | 24.4 | 24.1 | 24.4 | 20.4 | 20.0 | 19.7 |
| | | 50 | 0 | 24.4 | 24.1 | 24.3 | 20.2 | 20.0 | 19.7 |
| | 16QAM | 1 | 0 | 24.5 | 24.6 | 24.7 | 20.4 | 20.4 | 20.1 |
| | | 1 | 24 | 24.6 | 24.5 | 24.6 | 20.5 | 20.3 | 20.1 |
| | | 1 | 49 | **24.8** | 24.4 | 24.6 | **20.6** | 20.3 | 20.1 |
| | | 25 | 0 | 23.5 | 23.2 | 23.4 | 19.3 | 19.1 | 18.8 |
| | | 25 | 12 | 23.5 | 23.2 | 23.4 | 19.3 | 19.1 | 18.8 |
| | | 25 | 24 | 23.5 | 23.2 | 23.4 | 19.3 | 19.1 | 18.8 |
| | | 50 | 0 | 23.4 | 23.1 | 23.3 | 19.2 | 19.0 | 18.7 |
| | 64QAM | 1 | 0 | 23.2 | 23.3 | 23.3 | 19.1 | 19.1 | 18.9 |
| | | 1 | 24 | 23.4 | 23.3 | 23.4 | 19.2 | 19.1 | 18.9 |
| | | 1 | 49 | **23.5** | 23.3 | 23.4 | **19.4** | 19.1 | 18.9 |
| | | 25 | 0 | 22.3 | 22.1 | 22.2 | 18.1 | 18.0 | 17.7 |
| | | 25 | 12 | 22.3 | 22.1 | 22.3 | 18.1 | 18.0 | 17.7 |
| | | 25 | 24 | 22.3 | 22.1 | 22.3 | 18.2 | 18.0 | 17.7 |
| | | 50 | 0 | 22.3 | 22.1 | 22.2 | 18.1 | 18.0 | 17.7 |

**OUTPUT POWER FOR LTE BAND 7 (15.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 | | | Ant 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Conducted Average | | | Conducted Average | | |
| | | | | 20825 | 21100 | 21375 | 20825 | 21100 | 21375 |
| | | | | 2507.5 | 2535.0 | 2562.5 | 2507.5 | 2535.0 | 2562.5 |
| 15.0 | QPSK | 1 | 0 | 25.0 | 25.1 | 25.0 | 21.2 | 21.1 | 20.6 |
| | | 1 | 37 | 25.4 | 25.2 | 25.2 | 21.4 | 21.2 | 20.8 |
| | | 1 | 74 | **25.5** | 25.2 | 25.2 | **21.5** | 21.1 | 20.9 |
| | | 36 | 0 | 24.6 | 24.3 | 24.3 | 20.4 | 20.2 | 19.8 |
| | | 36 | 16 | 24.5 | 24.2 | 24.4 | 20.5 | 20.2 | 19.9 |
| | | 36 | 35 | 24.5 | 24.2 | 24.4 | 20.5 | 20.2 | 20.0 |
| | | 75 | 0 | 24.5 | 24.1 | 24.3 | 20.4 | 20.2 | 19.9 |
| | 16QAM | 1 | 0 | 24.3 | 24.4 | 24.4 | 20.5 | 20.6 | 20.1 |
| | | 1 | 37 | 24.6 | 24.4 | 24.6 | 20.8 | 20.6 | 20.2 |
| | | 1 | 74 | **24.6** | 24.3 | 24.5 | **20.8** | 20.5 | 20.3 |
| | | 36 | 0 | 23.4 | 23.2 | 23.2 | 19.4 | 19.3 | 18.9 |
| | | 36 | 16 | 23.4 | 23.1 | 23.2 | 19.5 | 19.2 | 18.9 |
| | | 36 | 35 | 23.4 | 23.1 | 23.2 | 19.4 | 19.2 | 19.0 |
| | | 75 | 0 | 23.3 | 23.0 | 23.2 | 19.4 | 19.2 | 18.9 |
| | 64QAM | 1 | 0 | 23.1 | 23.2 | 24.0 | 19.4 | 19.3 | 18.9 |
| | | 1 | 37 | 23.4 | 23.2 | **24.3** | 19.6 | 19.4 | 19.0 |
| | | 1 | 74 | 23.5 | 23.2 | 24.3 | **19.7** | 19.3 | 19.1 |
| | | 36 | 0 | 22.3 | 22.1 | 23.1 | 18.3 | 18.2 | 17.8 |
| | | 36 | 16 | 22.3 | 22.0 | 23.2 | 18.4 | 18.2 | 17.8 |
| | | 36 | 35 | 22.3 | 22.0 | 23.2 | 18.4 | 18.2 | 17.9 |
| | | 75 | 0 | 22.2 | 22.0 | 23.1 | 18.3 | 18.1 | 17.8 |

**OUTPUT POWER FOR LTE BAND 7 (20.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 | | | Ant 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Conducted Average | | | Conducted Average | | |
| | | | | 20850 | 21100 | 21350 | 20850 | 21100 | 21350 |
| | | | | 2510.0 | 2535.0 | 2560.0 | 2510.0 | 2535.0 | 2560.0 |
| 20.0 | QPSK | 1 | 0 | 25.1 | 25.2 | 25.0 | 21.2 | 21.2 | 20.8 |
| | | 1 | 49 | **25.5** | 25.2 | 25.2 | **21.5** | 21.2 | 20.8 |
| | | 1 | 99 | 25.4 | 25.1 | 25.2 | 21.4 | 21.1 | 21.0 |
| | | 50 | 0 | 24.5 | 24.2 | 24.3 | 20.4 | 20.2 | 19.8 |
| | | 50 | 24 | 24.5 | 24.2 | 24.3 | 20.5 | 20.2 | 19.8 |
| | | 50 | 49 | 24.5 | 24.1 | 24.4 | 20.4 | 20.1 | 19.9 |
| | | 100 | 0 | 24.5 | 24.1 | 24.3 | 20.5 | 20.2 | 19.8 |
| | 16QAM | 1 | 0 | 24.5 | 24.6 | 24.6 | 20.6 | 20.6 | 20.2 |
| | | 1 | 49 | **24.8** | 24.5 | 24.7 | **20.8** | 20.6 | 20.1 |
| | | 1 | 99 | 24.6 | 24.4 | 24.7 | 20.6 | 20.4 | 20.3 |
| | | 50 | 0 | 23.4 | 23.2 | 23.2 | 19.3 | 19.1 | 18.7 |
| | | 50 | 24 | 23.4 | 23.2 | 23.2 | 19.4 | 19.1 | 18.7 |
| | | 50 | 49 | 23.5 | 23.1 | 23.3 | 19.3 | 19.0 | 18.8 |
| | | 100 | 0 | 23.5 | 23.1 | 23.3 | 19.4 | 19.1 | 18.8 |
| | 64QAM | 1 | 0 | 23.4 | 23.4 | 24.2 | 19.4 | 19.3 | 19.0 |
| | | 1 | 49 | 23.6 | 23.4 | 24.3 | **19.6** | 19.4 | 18.9 |
| | | 1 | 99 | 23.5 | 23.3 | **24.4** | 19.4 | 19.2 | 19.0 |
| | | 50 | 0 | 22.3 | 22.1 | 23.1 | 18.2 | 18.1 | 17.6 |
| | | 50 | 24 | 22.3 | 22.0 | 23.2 | 18.3 | 18.0 | 17.6 |
| | | 50 | 49 | 22.4 | 22.0 | 23.3 | 18.2 | 18.0 | 17.8 |
| | | 100 | 0 | 22.4 | 22.1 | 23.2 | 18.3 | 18.1 | 17.7 |

## 7.3. LTE BAND 12

| ID: | 39004 | Date: | 6/3/18 |
|---|---|---|---|

**OUTPUT POWER FOR LTE BAND 12 (1.4 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 23017 | 23095 | 23173 | 23017 | 23095 | 23173 |
| | | | | 699.7 | 707.5 | 715.3 | 699.7 | 707.5 | 715.3 |
| 1.4 | QPSK | 1 | 0 | 25.3 | 25.4 | 25.2 | 24.1 | 24.1 | 24.0 |
| | | 1 | 2 | 25.2 | 25.4 | 25.3 | 24.2 | 24.1 | 24.0 |
| | | 1 | 5 | 25.3 | 25.4 | 25.4 | 24.2 | 24.1 | 24.1 |
| | | 3 | 0 | 25.3 | 25.5 | 25.3 | **24.2** | 24.2 | 24.1 |
| | | 3 | 1 | 25.3 | 25.5 | 25.3 | 24.2 | 24.2 | 24.1 |
| | | 3 | 2 | 25.3 | **25.5** | 25.3 | 24.2 | 24.2 | 24.1 |
| | | 6 | 0 | 24.3 | 24.5 | 24.4 | 23.3 | 23.2 | 23.1 |
| | 16QAM | 1 | 0 | 24.4 | **24.6** | 24.5 | **23.5** | 23.4 | 23.4 |
| | | 1 | 2 | 24.4 | 24.6 | 24.4 | 23.5 | 23.5 | 23.3 |
| | | 1 | 5 | 24.4 | 24.6 | 24.6 | 23.5 | 23.5 | 23.4 |
| | | 3 | 0 | 24.3 | 24.5 | 24.4 | 23.4 | 23.3 | 23.3 |
| | | 3 | 1 | 24.3 | 24.5 | 24.4 | 23.4 | 23.3 | 23.2 |
| | | 3 | 2 | 24.3 | 24.5 | 24.4 | 23.4 | 23.3 | 23.2 |
| | | 6 | 0 | 23.3 | 23.5 | 23.3 | 22.4 | 22.4 | 22.2 |
| | 64QAM | 1 | 0 | 23.5 | 23.7 | 23.5 | **22.6** | 22.5 | 22.4 |
| | | 1 | 2 | 23.5 | 23.6 | 23.5 | 22.5 | 22.4 | 22.4 |
| | | 1 | 5 | 23.4 | 23.6 | **23.7** | 22.5 | 22.5 | 22.4 |
| | | 3 | 0 | 23.4 | 23.5 | 23.4 | 22.5 | 22.4 | 22.3 |
| | | 3 | 1 | 23.4 | 23.5 | 23.4 | 22.5 | 22.4 | 22.3 |
| | | 3 | 2 | 23.4 | 23.5 | 23.4 | 22.5 | 22.4 | 22.3 |
| | | 6 | 0 | 22.3 | 22.5 | 22.4 | 21.4 | 21.3 | 21.2 |

**OUTPUT POWER FOR LTE BAND 12 (3.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 23025 | 23095 | 23165 | 23025 | 23095 | 23165 |
| | | | | 700.5 | 707.5 | 714.5 | 700.5 | 707.5 | 714.5 |
| 3.0 | QPSK | 1 | 0 | 25.2 | 25.4 | 25.3 | 24.1 | 24.0 | 24.2 |
| | | 1 | 7 | 25.3 | **25.5** | 25.4 | 24.2 | 24.1 | 24.1 |
| | | 1 | 14 | 25.1 | 25.4 | 25.4 | 24.1 | **24.2** | 24.0 |
| | | 8 | 0 | 24.4 | 24.5 | 24.4 | 23.3 | 23.2 | 23.3 |
| | | 8 | 4 | 24.3 | 24.5 | 24.4 | 23.3 | 23.2 | 23.2 |
| | | 8 | 7 | 24.3 | 24.5 | 24.4 | 23.3 | 23.2 | 23.1 |
| | | 15 | 0 | 24.4 | 24.5 | 24.4 | 23.3 | 23.2 | 23.2 |
| | 16QAM | 1 | 0 | 24.4 | 24.6 | 24.6 | 23.5 | 23.5 | **23.7** |
| | | 1 | 7 | 24.5 | **24.7** | 24.6 | 23.6 | 23.5 | 23.5 |
| | | 1 | 14 | 24.4 | 24.6 | 24.6 | 23.4 | 23.6 | 23.5 |
| | | 8 | 0 | 23.3 | 23.4 | 23.4 | 22.4 | 22.3 | 22.4 |
| | | 8 | 4 | 23.3 | 23.5 | 23.3 | 22.4 | 22.3 | 22.3 |
| | | 8 | 7 | 23.3 | 23.4 | 23.3 | 22.4 | 22.3 | 22.2 |
| | | 15 | 0 | 23.3 | 23.4 | 23.3 | 22.3 | 22.3 | 22.2 |
| | 64QAM | 1 | 0 | 23.4 | 23.5 | 23.5 | 22.5 | 22.4 | 22.5 |
| | | 1 | 7 | 23.4 | 23.6 | 23.4 | 22.5 | 22.5 | 22.4 |
| | | 1 | 14 | 23.2 | **23.6** | 23.5 | 22.3 | **22.5** | 22.2 |
| | | 8 | 0 | 22.3 | 22.5 | 22.4 | 21.3 | 21.3 | 21.4 |
| | | 8 | 4 | 22.3 | 22.5 | 22.4 | 21.3 | 21.3 | 21.3 |
| | | 8 | 7 | 22.3 | 22.5 | 22.4 | 21.3 | 21.3 | 21.3 |
| | | 15 | 0 | 22.3 | 22.5 | 22.3 | 21.3 | 21.2 | 21.2 |

**OUTPUT POWER FOR LTE BAND 12 (5.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 23035 | 23095 | 23155 | 23035 | 23095 | 23155 |
| | | | | 701.5 | 707.5 | 713.5 | 701.5 | 707.5 | 713.5 |
| 5.0 | QPSK | 1 | 0 | 25.2 | 25.2 | **25.5** | 24.0 | 23.9 | **24.2** |
| | | 1 | 12 | 25.1 | 25.3 | 25.2 | 23.8 | 23.9 | 24.0 |
| | | 1 | 24 | 25.1 | 25.3 | 25.3 | 23.8 | 24.2 | 23.9 |
| | | 12 | 0 | 24.2 | 24.4 | 24.6 | 23.0 | 23.0 | 23.2 |
| | | 12 | 6 | 24.1 | 24.4 | 24.3 | 22.9 | 23.0 | 23.1 |
| | | 12 | 11 | 24.1 | 24.4 | 24.3 | 22.8 | 23.0 | 22.9 |
| | | 25 | 0 | 24.2 | 24.4 | 24.3 | 22.9 | 23.0 | 23.1 |
| | 16QAM | 1 | 0 | 24.5 | 24.5 | **24.8** | 23.3 | 23.2 | **23.6** |
| | | 1 | 12 | 24.3 | 24.6 | 24.6 | 23.2 | 23.3 | 23.3 |
| | | 1 | 24 | 24.4 | 24.7 | 24.7 | 23.0 | 23.5 | 23.2 |
| | | 12 | 0 | 23.4 | 23.5 | 23.6 | 22.2 | 22.1 | 22.4 |
| | | 12 | 6 | 23.3 | 23.5 | 23.4 | 22.1 | 22.1 | 22.3 |
| | | 12 | 11 | 23.2 | 23.5 | 23.4 | 22.0 | 22.2 | 22.1 |
| | | 25 | 0 | 23.3 | 23.4 | 23.4 | 22.1 | 22.1 | 22.2 |
| | 64QAM | 1 | 0 | 23.4 | 23.5 | **23.8** | 22.3 | 22.1 | **22.4** |
| | | 1 | 12 | 23.3 | 23.6 | 23.5 | 22.1 | 22.1 | 22.2 |
| | | 1 | 24 | 23.4 | 23.5 | 23.6 | 22.0 | 22.4 | 22.2 |
| | | 12 | 0 | 22.3 | 22.5 | 22.7 | 21.1 | 21.0 | 21.3 |
| | | 12 | 6 | 22.2 | 22.5 | 22.5 | 21.0 | 21.1 | 21.2 |
| | | 12 | 11 | 22.2 | 22.5 | 22.4 | 20.9 | 21.2 | 21.1 |
| | | 25 | 0 | 22.2 | 22.4 | 22.4 | 21.0 | 21.1 | 21.1 |

**OUTPUT POWER FOR LTE BAND 12 (10.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 23060 | 23095 | 23130 | 23060 | 23095 | 23130 |
| | | | | 704.0 | 707.5 | 711.0 | 704.0 | 707.5 | 711.0 |
| 10.0 | QPSK | 1 | 0 | 25.2 | 25.1 | 25.3 | 23.9 | 23.6 | 23.9 |
| | | 1 | 24 | 25.1 | 25.4 | 25.4 | 23.7 | 23.9 | 24.1 |
| | | 1 | 49 | 25.4 | **25.5** | 25.2 | 24.0 | **24.2** | 23.8 |
| | | 25 | 0 | 24.0 | 24.1 | 24.3 | 22.8 | 22.8 | 23.0 |
| | | 25 | 12 | 24.0 | 24.2 | 24.4 | 22.7 | 22.9 | 23.1 |
| | | 25 | 24 | 24.2 | 24.3 | 24.2 | 22.9 | 23.1 | 23.0 |
| | | 50 | 0 | 24.1 | 24.2 | 24.4 | 22.8 | 22.9 | 23.1 |
| | 16QAM | 1 | 0 | 24.4 | 24.3 | **24.8** | 23.4 | 23.0 | 23.3 |
| | | 1 | 24 | 24.4 | 24.6 | 24.7 | 23.1 | 23.3 | 23.5 |
| | | 1 | 49 | 24.7 | 24.7 | 24.6 | 23.3 | **23.6** | 23.2 |
| | | 25 | 0 | 23.1 | 23.3 | 23.4 | 21.9 | 22.0 | 22.1 |
| | | 25 | 12 | 23.1 | 23.4 | 23.4 | 21.8 | 22.0 | 22.2 |
| | | 25 | 24 | 23.4 | 23.4 | 23.3 | 22.0 | 22.2 | 22.1 |
| | | 50 | 0 | 23.1 | 23.3 | 23.5 | 21.9 | 22.0 | 22.2 |
| | 64QAM | 1 | 0 | 23.4 | 23.2 | **23.6** | 22.2 | 21.9 | 22.2 |
| | | 1 | 24 | 23.4 | 23.6 | 23.6 | 22.0 | 22.2 | 22.3 |
| | | 1 | 49 | 23.6 | 23.6 | 23.4 | 22.2 | **22.4** | 22.0 |
| | | 25 | 0 | 22.1 | 22.2 | 22.3 | 20.9 | 21.0 | 21.1 |
| | | 25 | 12 | 22.2 | 22.4 | 22.5 | 20.8 | 21.1 | 21.2 |
| | | 25 | 24 | 22.4 | 22.4 | 22.3 | 21.0 | 21.3 | 21.1 |
| | | 50 | 0 | 22.2 | 22.3 | 22.5 | 20.9 | 21.0 | 21.2 |

## 7.4. LTE BAND 13

| ID: | 39004 | Date: | 6/4/18 |
|---|---|---|---|

**OUTPUT POWER FOR LTE BAND 13 (5.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 23207 | 23230 | 23255 | 23207 | 23230 | 23255 |
| | | | | 779.5 | 782.0 | 784.5 | 779.5 | 782.0 | 784.5 |
| 5.0 | QPSK | 1 | 0 | **25.5** | 25.1 | 25.2 | **23.7** | 22.7 | 23.3 |
| | | 1 | 12 | 25.2 | 25.2 | 25.4 | 23.3 | 23.2 | 23.4 |
| | | 1 | 24 | 25.1 | 25.3 | 25.4 | 23.3 | 23.4 | 23.5 |
| | | 12 | 0 | 24.4 | 24.1 | 24.0 | 22.6 | 22.3 | 22.5 |
| | | 12 | 6 | 24.2 | 24.1 | 24.2 | 22.3 | 22.4 | 22.5 |
| | | 12 | 11 | 24.0 | 24.1 | 24.4 | 22.3 | 22.4 | 22.5 |
| | | 25 | 0 | 24.2 | 24.2 | 24.3 | 22.3 | 22.4 | 22.5 |
| | 16QAM | 1 | 0 | **24.9** | 24.6 | 24.5 | **23.2** | 22.8 | 22.8 |
| | | 1 | 12 | 24.6 | 24.6 | 24.7 | 22.7 | 22.7 | 22.9 |
| | | 1 | 24 | 24.5 | 24.7 | 24.7 | 22.8 | 22.9 | 23.0 |
| | | 12 | 0 | 23.4 | 23.1 | 23.1 | 21.5 | 21.4 | 21.5 |
| | | 12 | 6 | 23.2 | 23.1 | 23.3 | 21.4 | 21.4 | 21.5 |
| | | 12 | 11 | 23.0 | 23.1 | 23.5 | 21.3 | 21.5 | 21.6 |
| | | 25 | 0 | 23.2 | 23.2 | 23.3 | 21.3 | 21.4 | 21.6 |
| | 64QAM | 1 | 0 | **23.8** | 23.3 | 23.4 | **22.1** | 21.8 | 21.7 |
| | | 1 | 12 | 23.5 | 23.4 | 23.7 | 21.7 | 21.6 | 21.8 |
| | | 1 | 24 | 23.4 | 23.6 | 23.7 | 21.7 | 21.8 | 21.9 |
| | | 12 | 0 | 22.3 | 22.0 | 22.0 | 20.5 | 20.3 | 20.5 |
| | | 12 | 6 | 22.1 | 22.0 | 22.2 | 20.4 | 20.4 | 20.5 |
| | | 12 | 11 | 21.9 | 22.1 | 22.4 | 20.3 | 20.4 | 20.5 |
| | | 25 | 0 | 22.1 | 22.2 | 22.4 | 20.4 | 20.4 | 20.6 |

**OUTPUT POWER FOR LTE BAND 13 (10.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | N/A | 23230 | N/A | N/A | 23230 | N/A |
| | | | | N/A | 782.0 | N/A | N/A | 782.0 | N/A |
| 10.0 | QPSK | 1 | 0 | | **25.5** | | | **23.7** | |
| | | 1 | 24 | | 25.1 | | | 23.3 | |
| | | 1 | 49 | | 25.4 | | | 23.6 | |
| | | 25 | 0 | | 24.1 | | | 22.4 | |
| | | 25 | 12 | | 24.2 | | | 22.4 | |
| | | 25 | 24 | | 24.4 | | | 22.6 | |
| | | 50 | 0 | | 24.3 | | | 22.4 | |
| | 16QAM | 1 | 0 | | **24.9** | | | **23.0** | |
| | | 1 | 24 | | 24.4 | | | 22.6 | |
| | | 1 | 49 | | 24.7 | | | 22.9 | |
| | | 25 | 0 | | 23.2 | | | 21.4 | |
| | | 25 | 12 | | 23.2 | | | 21.4 | |
| | | 25 | 24 | | 23.4 | | | 21.6 | |
| | | 50 | 0 | | 23.3 | | | 21.4 | |
| | 64QAM | 1 | 0 | | **23.9** | | | **21.9** | |
| | | 1 | 24 | | 23.3 | | | 21.6 | |
| | | 1 | 49 | | 23.8 | | | 21.8 | |
| | | 25 | 0 | | 22.2 | | | 20.4 | |
| | | 25 | 12 | | 22.3 | | | 20.4 | |
| | | 25 | 24 | | 22.4 | | | 20.6 | |
| | | 50 | 0 | | 22.4 | | | 20.5 | |

## 7.5. LTE BAND 14

| ID: | 39004 | Date: | 6/4/18 |
|---|---|---|---|

**OUTPUT POWER FOR LTE BAND 14 (5.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 23305 | 23330 | 23355 | 23305 | 23330 | 23355 |
| | | | | 790.5 | 793.0 | 795.5 | 790.5 | 793.0 | 795.5 |
| 5.0 | QPSK | 1 | 0 | 25.3 | 25.5 | **25.5** | 24.1 | 24.1 | 24.1 |
| | | 1 | 12 | 25.5 | 25.5 | 25.5 | 24.0 | 24.1 | 24.1 |
| | | 1 | 24 | 25.5 | 25.5 | 25.5 | **24.2** | 24.1 | 24.1 |
| | | 12 | 0 | 24.5 | 24.5 | 24.4 | 23.1 | 23.1 | 23.1 |
| | | 12 | 6 | 24.5 | 24.5 | 24.5 | 23.1 | 23.2 | 23.1 |
| | | 12 | 11 | 24.5 | 24.5 | 24.5 | 23.1 | 23.1 | 23.2 |
| | | 25 | 0 | 24.5 | 24.7 | 24.7 | 23.1 | 23.1 | 23.1 |
| | 16QAM | 1 | 0 | 24.5 | **24.8** | 24.8 | 23.4 | 23.3 | 23.5 |
| | | 1 | 12 | 24.8 | 24.7 | 24.7 | 23.3 | 23.3 | 23.5 |
| | | 1 | 24 | 24.8 | 24.7 | 24.7 | 23.4 | 23.4 | **23.6** |
| | | 12 | 0 | 23.4 | 23.4 | 23.3 | 22.2 | 22.2 | 22.2 |
| | | 12 | 6 | 23.4 | 23.4 | 23.4 | 22.1 | 22.2 | 22.2 |
| | | 12 | 11 | 23.4 | 23.4 | 23.3 | 22.2 | 22.2 | 22.3 |
| | | 25 | 0 | 23.4 | 23.5 | 23.4 | 22.1 | 22.2 | 22.1 |
| | 64QAM | 1 | 0 | 23.4 | **23.7** | 23.7 | 22.3 | 22.3 | 22.3 |
| | | 1 | 12 | 23.7 | 23.7 | 23.5 | 22.2 | 22.3 | 22.4 |
| | | 1 | 24 | 23.6 | 23.6 | 23.5 | 22.4 | 22.4 | **22.4** |
| | | 12 | 0 | 22.3 | 22.3 | 22.3 | 21.2 | 21.2 | 21.1 |
| | | 12 | 6 | 22.3 | 22.3 | 22.3 | 21.0 | 21.2 | 21.1 |
| | | 12 | 11 | 22.3 | 22.3 | 22.3 | 21.1 | 21.2 | 21.2 |
| | | 25 | 0 | 22.4 | 22.4 | 22.4 | 21.1 | 21.2 | 21.1 |

**OUTPUT POWER FOR LTE BAND 14 (10.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | N/A | 23330 | N/A | N/A | 23330 | N/A |
| | | | | N/A | 793.0 | N/A | N/A | 793.0 | N/A |
| 10.0 | QPSK | 1 | 0 | | 25.4 | | | 24.2 | |
| | | 1 | 24 | | **25.5** | | | 24.2 | |
| | | 1 | 49 | | 25.5 | | | **24.2** | |
| | | 25 | 0 | | 24.6 | | | 23.3 | |
| | | 25 | 12 | | 24.6 | | | 23.4 | |
| | | 25 | 24 | | 24.6 | | | 23.3 | |
| | | 50 | 0 | | 24.6 | | | 23.3 | |
| | 16QAM | 1 | 0 | | 24.6 | | | 23.5 | |
| | | 1 | 24 | | **24.7** | | | 23.6 | |
| | | 1 | 49 | | 24.6 | | | **23.7** | |
| | | 25 | 0 | | 23.6 | | | 22.3 | |
| | | 25 | 12 | | 23.6 | | | 22.5 | |
| | | 25 | 24 | | 23.6 | | | 22.4 | |
| | | 50 | 0 | | 23.6 | | | 22.4 | |
| | 64QAM | 1 | 0 | | 23.5 | | | 22.5 | |
| | | 1 | 24 | | **23.7** | | | 22.5 | |
| | | 1 | 49 | | 23.6 | | | **22.7** | |
| | | 25 | 0 | | 22.6 | | | 21.4 | |
| | | 25 | 12 | | 22.6 | | | 21.5 | |
| | | 25 | 24 | | 22.6 | | | 21.5 | |
| | | 50 | 0 | | 22.6 | | | 21.4 | |

## 7.6. LTE BAND 17

| ID: | 39004 | Date: | 6/3/18 |
|---|---|---|---|

**OUTPUT POWER FOR LTE BAND 17 (5.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 | | | Ant 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Conducted Average | | | Conducted Average | | |
| | | | | 23755 | 23790 | 23825 | 23755 | 23790 | 23825 |
| | | | | 706.5 | 710.0 | 713.5 | 706.5 | 710.0 | 713.5 |
| 5.0 | QPSK | 1 | 0 | 25.1 | 25.3 | 25.5 | 23.8 | 23.9 | 24.2 |
| | | 1 | 12 | 25.3 | 25.3 | 25.2 | 23.9 | 24.1 | 23.9 |
| | | 1 | 24 | 25.3 | **25.5** | 25.3 | 24.1 | **24.2** | 23.9 |
| | | 12 | 0 | 24.2 | 24.4 | 24.5 | 23.0 | 23.1 | 23.2 |
| | | 12 | 6 | 24.4 | 24.4 | 24.3 | 23.0 | 23.2 | 23.1 |
| | | 12 | 11 | 24.4 | 24.5 | 24.3 | 23.0 | 23.2 | 22.9 |
| | | 25 | 0 | 24.4 | 24.5 | 24.3 | 23.0 | 23.2 | 23.0 |
| | 16QAM | 1 | 0 | 24.5 | 24.7 | 24.7 | 23.1 | 23.2 | **23.6** |
| | | 1 | 12 | 24.7 | 24.7 | 24.5 | 23.3 | 23.5 | 23.3 |
| | | 1 | 24 | 24.7 | **24.9** | 24.6 | 23.4 | 23.5 | 23.2 |
| | | 12 | 0 | 23.4 | 23.5 | 23.7 | 22.1 | 22.3 | 22.3 |
| | | 12 | 6 | 23.5 | 23.5 | 23.5 | 22.1 | 22.3 | 22.3 |
| | | 12 | 11 | 23.5 | 23.6 | 23.5 | 22.1 | 22.3 | 22.1 |
| | | 25 | 0 | 23.4 | 23.5 | 23.4 | 22.1 | 22.3 | 22.2 |
| | 64QAM | 1 | 0 | 23.3 | 23.5 | 23.6 | 22.0 | 22.1 | **22.5** |
| | | 1 | 12 | 23.6 | 23.6 | 23.5 | 22.2 | 22.3 | 22.2 |
| | | 1 | 24 | 23.5 | **23.7** | 23.6 | 22.3 | 22.4 | 22.2 |
| | | 12 | 0 | 22.3 | 22.5 | 22.6 | 21.1 | 21.2 | 21.3 |
| | | 12 | 6 | 22.5 | 22.5 | 22.4 | 21.1 | 21.3 | 21.2 |
| | | 12 | 11 | 22.5 | 22.6 | 22.4 | 21.1 | 21.3 | 21.1 |
| | | 25 | 0 | 22.5 | 22.5 | 22.4 | 21.1 | 21.3 | 21.1 |

**OUTPUT POWER FOR LTE BAND 17 (10.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 | | | Ant 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Conducted Average | | | Conducted Average | | |
| | | | | 23780 | 23790 | 23800 | 23780 | 23790 | 23800 |
| | | | | 709.0 | 710.0 | 711.0 | 709.0 | 710.0 | 711.0 |
| 10.0 | QPSK | 1 | 0 | 25.2 | 25.3 | 25.4 | 24.0 | 24.1 | 24.1 |
| | | 1 | 24 | 25.4 | 25.4 | **25.5** | 24.2 | **24.2** | 24.2 |
| | | 1 | 49 | 25.4 | 25.3 | 25.3 | 24.2 | 24.1 | 24.0 |
| | | 25 | 0 | 24.4 | 24.3 | 24.3 | 23.1 | 23.1 | 23.2 |
| | | 25 | 12 | 24.4 | 24.3 | 24.4 | 23.2 | 23.3 | 23.3 |
| | | 25 | 24 | 24.6 | 24.6 | 24.3 | 23.4 | 23.3 | 23.2 |
| | | 50 | 0 | 24.3 | 24.4 | 24.5 | 23.3 | 23.3 | 23.3 |
| | 16QAM | 1 | 0 | 24.5 | 24.5 | 24.6 | 23.5 | 23.5 | 23.5 |
| | | 1 | 24 | 24.6 | 24.6 | **24.7** | 23.6 | 23.7 | **23.7** |
| | | 1 | 49 | 24.5 | 24.5 | 24.5 | 23.6 | 23.4 | 23.4 |
| | | 25 | 0 | 23.4 | 23.4 | 23.4 | 22.2 | 22.2 | 22.3 |
| | | 25 | 12 | 23.4 | 23.4 | 23.5 | 22.3 | 22.4 | 22.4 |
| | | 25 | 24 | 23.6 | 23.6 | 23.3 | 22.5 | 22.4 | 22.3 |
| | | 50 | 0 | 23.2 | 23.4 | 23.5 | 22.4 | 22.4 | 22.4 |
| | 64QAM | 1 | 0 | 23.5 | 23.5 | 23.6 | 22.3 | 22.4 | 22.4 |
| | | 1 | 24 | 23.6 | 23.5 | **23.6** | 22.4 | 22.5 | 22.6 |
| | | 1 | 49 | 23.5 | 23.5 | 23.4 | **22.6** | 22.3 | 22.3 |
| | | 25 | 0 | 22.4 | 22.4 | 22.4 | 21.2 | 21.2 | 21.4 |
| | | 25 | 12 | 22.4 | 22.4 | 22.5 | 21.4 | 21.4 | 21.4 |
| | | 25 | 24 | 22.6 | 22.6 | 22.4 | 21.5 | 21.4 | 21.3 |
| | | 50 | 0 | 22.3 | 22.4 | 22.5 | 21.4 | 21.3 | 21.4 |

## 7.7. LTE BAND 25

| ID: | 39004 | Date: | 6/4/18 |
|---|---|---|---|

**OUTPUT POWER FOR LTE BAND 25 (1.4 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 26047 | 26365 | 26683 | 26047 | 26365 | 26683 |
| | | | | 1850.7 | 1882.5 | 1914.3 | 1850.7 | 1882.5 | 1914.3 |
| 1.4 | QPSK | 1 | 0 | 25.4 | 25.0 | 25.1 | 19.3 | 19.3 | 19.2 |
| | | 1 | 2 | 25.4 | 25.0 | 25.2 | 19.3 | 19.3 | 19.3 |
| | | 1 | 5 | **25.5** | 25.1 | 25.1 | 19.4 | 19.3 | 19.4 |
| | | 3 | 0 | 25.4 | 25.1 | 25.4 | 19.3 | 19.3 | 19.4 |
| | | 3 | 1 | 25.4 | 25.1 | 24.7 | 19.4 | 19.3 | 19.4 |
| | | 3 | 2 | 25.4 | 25.1 | 23.6 | 19.4 | 19.3 | **19.5** |
| | | 6 | 0 | 24.4 | 24.1 | 23.1 | 18.3 | 18.2 | 18.4 |
| | 16QAM | 1 | 0 | 24.8 | 24.4 | 23.7 | 18.6 | 18.6 | 18.7 |
| | | 1 | 2 | 24.7 | 24.3 | 22.4 | 18.6 | 18.6 | 18.7 |
| | | 1 | 5 | **24.8** | 24.4 | 24.0 | 18.6 | 18.5 | **18.8** |
| | | 3 | 0 | 24.6 | 24.2 | 24.3 | 18.5 | 18.5 | 18.6 |
| | | 3 | 1 | 24.6 | 24.2 | 23.3 | 18.5 | 18.5 | 18.6 |
| | | 3 | 2 | 24.6 | 24.2 | 22.2 | 18.5 | 18.4 | 18.6 |
| | | 6 | 0 | 23.5 | 23.2 | 22.0 | 17.4 | 17.4 | 17.5 |
| | 64QAM | 1 | 0 | 23.6 | 23.1 | 23.4 | 17.7 | 17.6 | **17.7** |
| | | 1 | 2 | 23.7 | 23.3 | 23.4 | 17.7 | 17.6 | 17.7 |
| | | 1 | 5 | **23.8** | 23.3 | 23.6 | 17.7 | 17.7 | 17.7 |
| | | 3 | 0 | 23.5 | 23.1 | 23.3 | 17.5 | 17.5 | 17.5 |
| | | 3 | 1 | 23.5 | 23.1 | 23.3 | 17.5 | 17.5 | 17.5 |
| | | 3 | 2 | 23.5 | 23.1 | 23.4 | 17.5 | 17.4 | 17.5 |
| | | 6 | 0 | 22.4 | 22.1 | 22.2 | 16.4 | 16.3 | 16.3 |

**OUTPUT POWER FOR LTE BAND 25 (3.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 26055 | 26365 | 26675 | 26055 | 26365 | 26675 |
| | | | | 1851.5 | 1882.5 | 1913.5 | 1851.5 | 1882.5 | 1913.5 |
| 3.0 | QPSK | 1 | 0 | 25.4 | 25.1 | 25.1 | 19.4 | 19.3 | 19.2 |
| | | 1 | 7 | **25.5** | 25.2 | 25.2 | **19.5** | 19.3 | 19.4 |
| | | 1 | 14 | 25.4 | 25.2 | 25.1 | 19.5 | 19.3 | 19.5 |
| | | 8 | 0 | 24.4 | 24.2 | 24.3 | 18.5 | 18.4 | 18.3 |
| | | 8 | 4 | 24.4 | 24.2 | 24.3 | 18.4 | 18.4 | 18.4 |
| | | 8 | 7 | 24.5 | 24.2 | 24.4 | 18.5 | 18.3 | 18.4 |
| | | 15 | 0 | 24.5 | 24.2 | 24.4 | 18.5 | 18.3 | 18.4 |
| | 16QAM | 1 | 0 | **24.7** | 24.4 | 24.5 | 18.8 | 18.7 | 18.6 |
| | | 1 | 7 | 24.7 | 24.4 | 24.6 | **18.9** | 18.8 | 18.8 |
| | | 1 | 14 | 24.6 | 24.4 | 24.2 | 18.9 | 18.7 | 18.9 |
| | | 8 | 0 | 23.4 | 23.2 | 23.4 | 17.5 | 17.5 | 17.3 |
| | | 8 | 4 | 23.4 | 23.1 | 23.3 | 17.5 | 17.5 | 17.4 |
| | | 8 | 7 | 23.4 | 23.2 | 23.4 | 17.5 | 17.4 | 17.4 |
| | | 15 | 0 | 23.4 | 23.1 | 23.3 | 17.5 | 17.4 | 17.4 |
| | 64QAM | 1 | 0 | **23.5** | 23.2 | 23.2 | 17.6 | 17.4 | 17.4 |
| | | 1 | 7 | 23.5 | 23.3 | 23.3 | **17.7** | 17.6 | 17.6 |
| | | 1 | 14 | 23.4 | 23.3 | 23.5 | 17.7 | 17.6 | 17.7 |
| | | 8 | 0 | 22.4 | 22.2 | 22.1 | 16.5 | 16.4 | 16.3 |
| | | 8 | 4 | 22.4 | 22.1 | 22.1 | 16.5 | 16.5 | 16.4 |
| | | 8 | 7 | 22.4 | 22.1 | 22.2 | 16.5 | 16.4 | 16.4 |
| | | 15 | 0 | 22.3 | 22.1 | 22.1 | 16.4 | 16.3 | 16.3 |

## OUTPUT POWER FOR LTE BAND 25 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 26065 | 26365 | 26665 | 26065 | 26365 | 26665 |
| | | | | 1852.5 | 1882.5 | 1912.5 | 1852.5 | 1882.5 | 1912.5 |
| 5.0 | QPSK | 1 | 0 | **25.5** | 25.2 | 25.0 | 19.4 | 19.4 | 19.1 |
| | | 1 | 12 | 25.4 | 25.2 | 25.2 | 19.4 | 19.3 | 19.2 |
| | | 1 | 24 | 25.3 | 25.3 | 25.2 | 19.3 | 19.3 | **19.5** |
| | | 12 | 0 | 24.6 | 24.3 | 24.3 | 18.4 | 18.4 | 18.1 |
| | | 12 | 6 | 24.5 | 24.3 | 24.3 | 18.3 | 18.4 | 18.2 |
| | | 12 | 11 | 24.5 | 24.3 | 24.4 | 18.3 | 18.3 | 18.3 |
| | | 25 | 0 | 24.5 | 24.3 | 24.4 | 18.4 | 18.3 | 18.3 |
| | 16QAM | 1 | 0 | **25.0** | 24.7 | 24.6 | 18.8 | 18.8 | 18.4 |
| | | 1 | 12 | 24.9 | 24.6 | 24.7 | 18.8 | 18.7 | 18.6 |
| | | 1 | 24 | 24.7 | 24.6 | 24.6 | 18.7 | 18.6 | **18.8** |
| | | 12 | 0 | 23.7 | 23.4 | 23.5 | 17.6 | 17.6 | 17.3 |
| | | 12 | 6 | 23.6 | 23.4 | 23.5 | 17.5 | 17.5 | 17.4 |
| | | 12 | 11 | 23.6 | 23.4 | 23.6 | 17.5 | 17.5 | 17.5 |
| | | 25 | 0 | 23.6 | 23.3 | 23.4 | 17.5 | 17.4 | 17.4 |
| | 64QAM | 1 | 0 | **23.8** | 23.5 | 23.3 | 17.6 | 17.6 | 17.3 |
| | | 1 | 12 | 23.7 | 23.4 | 23.5 | 17.6 | 17.6 | 17.5 |
| | | 1 | 24 | 23.6 | 23.4 | 23.7 | 17.5 | 17.5 | **17.7** |
| | | 12 | 0 | 22.5 | 22.3 | 22.2 | 16.5 | 16.5 | 16.2 |
| | | 12 | 6 | 22.5 | 22.3 | 22.3 | 16.4 | 16.5 | 16.3 |
| | | 12 | 11 | 22.5 | 22.3 | 22.3 | 16.4 | 16.4 | 16.4 |
| | | 25 | 0 | 22.5 | 22.3 | 22.3 | 16.4 | 16.3 | 16.3 |

## OUTPUT POWER FOR LTE BAND 25 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 26090 | 26365 | 26640 | 26090 | 26365 | 26640 |
| | | | | 1855.0 | 1882.5 | 1910.0 | 1855.0 | 1882.5 | 1910.0 |
| 10.0 | QPSK | 1 | 0 | **25.5** | 25.2 | 25.0 | 19.5 | 19.4 | 19.2 |
| | | 1 | 24 | 25.3 | 25.2 | 25.0 | 19.4 | 19.5 | 19.2 |
| | | 1 | 49 | 25.2 | 25.3 | 25.3 | 19.3 | 19.5 | **19.5** |
| | | 25 | 0 | 24.3 | 24.2 | 24.0 | 18.4 | 18.4 | 18.1 |
| | | 25 | 12 | 24.1 | 24.1 | 23.9 | 18.2 | 18.4 | 18.1 |
| | | 25 | 24 | 24.0 | 24.1 | 24.1 | 18.2 | 18.3 | 18.2 |
| | | 50 | 0 | 24.1 | 24.1 | 24.0 | 18.2 | 18.3 | 18.1 |
| | 16QAM | 1 | 0 | **24.7** | 24.5 | 24.3 | **19.0** | 18.9 | 18.8 |
| | | 1 | 24 | 24.5 | 24.4 | 24.2 | 18.9 | 18.9 | 18.6 |
| | | 1 | 49 | 24.3 | 24.4 | 24.6 | 18.8 | 18.9 | 19.0 |
| | | 25 | 0 | 23.3 | 23.2 | 23.0 | 17.6 | 17.6 | 17.2 |
| | | 25 | 12 | 23.1 | 23.1 | 22.9 | 17.4 | 17.5 | 17.2 |
| | | 25 | 24 | 23.0 | 23.1 | 23.1 | 17.3 | 17.4 | 17.4 |
| | | 50 | 0 | 23.1 | 23.0 | 22.9 | 17.3 | 17.4 | 17.2 |
| | 64QAM | 1 | 0 | **23.6** | 23.0 | 23.1 | 17.7 | 17.7 | 17.5 |
| | | 1 | 24 | 23.4 | 23.4 | 23.1 | 17.6 | **17.8** | 17.4 |
| | | 1 | 49 | 23.2 | 23.3 | 23.4 | 17.6 | 17.7 | 17.7 |
| | | 25 | 0 | 22.3 | 22.2 | 21.9 | 16.5 | 16.5 | 16.2 |
| | | 25 | 12 | 22.1 | 22.1 | 21.8 | 16.3 | 16.5 | 16.2 |
| | | 25 | 24 | 22.0 | 22.1 | 22.0 | 16.3 | 16.4 | 16.3 |
| | | 50 | 0 | 22.0 | 22.0 | 21.8 | 16.3 | 16.4 | 16.1 |

**OUTPUT POWER FOR LTE BAND 25 (15.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 26115 | 26365 | 26615 | 26115 | 26365 | 26615 |
| | | | | 1857.5 | 1882.5 | 1907.5 | 1857.5 | 1882.5 | 1907.5 |
| 15.0 | QPSK | 1 | 0 | **25.5** | 25.2 | 25.1 | 19.4 | 19.2 | 19.2 |
| | | 1 | 37 | 25.2 | 25.3 | 25.0 | 19.3 | 19.4 | 19.1 |
| | | 1 | 74 | 25.1 | 25.3 | 25.2 | 19.2 | 19.3 | **19.5** |
| | | 36 | 0 | 24.2 | 24.2 | 24.3 | 18.2 | 18.3 | 18.2 |
| | | 36 | 16 | 24.1 | 24.2 | 24.0 | 18.1 | 18.4 | 18.1 |
| | | 36 | 35 | 24.0 | 24.0 | 24.0 | 18.0 | 18.2 | 18.0 |
| | | 75 | 0 | 24.0 | 24.1 | 24.1 | 18.1 | 18.3 | 18.1 |
| | 16QAM | 1 | 0 | **24.8** | 24.5 | 24.6 | **18.8** | 18.6 | 18.6 |
| | | 1 | 37 | 24.4 | 24.5 | 24.3 | 18.6 | 18.7 | 18.4 |
| | | 1 | 74 | 24.3 | 24.5 | 24.7 | 18.4 | 18.6 | 18.8 |
| | | 36 | 0 | 23.3 | 23.2 | 23.2 | 17.2 | 17.3 | 17.2 |
| | | 36 | 16 | 23.1 | 23.2 | 23.0 | 17.1 | 17.3 | 17.1 |
| | | 36 | 35 | 23.0 | 23.1 | 23.0 | 17.0 | 17.1 | 17.0 |
| | | 75 | 0 | 23.0 | 23.1 | 23.0 | 17.1 | 17.2 | 17.0 |
| | 64QAM | 1 | 0 | **23.6** | 23.3 | 23.3 | **17.6** | 17.4 | 17.4 |
| | | 1 | 37 | 23.4 | 23.4 | 23.2 | 17.4 | 17.6 | 17.3 |
| | | 1 | 74 | 23.2 | 23.4 | 23.5 | 17.3 | 17.5 | 17.6 |
| | | 36 | 0 | 22.2 | 22.2 | 22.1 | 16.2 | 16.3 | 16.1 |
| | | 36 | 16 | 22.1 | 22.2 | 22.0 | 16.1 | 16.3 | 16.1 |
| | | 36 | 35 | 22.0 | 22.1 | 22.0 | 16.0 | 16.2 | 16.0 |
| | | 75 | 0 | 22.0 | 22.1 | 22.0 | 16.0 | 16.2 | 15.9 |

**OUTPUT POWER FOR LTE BAND 25 (20.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 26140 | 26365 | 26590 | 26140 | 26365 | 26590 |
| | | | | 1860.0 | 1882.5 | 1905.0 | 1860.0 | 1882.5 | 1905.0 |
| 20.0 | QPSK | 1 | 0 | **25.5** | 25.1 | 25.3 | 19.5 | 19.3 | 19.5 |
| | | 1 | 49 | 25.1 | 25.2 | 25.1 | 19.3 | 19.5 | 19.2 |
| | | 1 | 99 | 25.1 | 25.2 | 25.2 | 19.2 | 19.4 | **19.5** |
| | | 50 | 0 | 24.0 | 24.1 | 24.2 | 18.1 | 18.3 | 18.3 |
| | | 50 | 24 | 23.9 | 24.1 | 24.0 | 18.0 | 18.3 | 18.1 |
| | | 50 | 49 | 23.7 | 24.0 | 23.8 | 18.0 | 18.2 | 18.0 |
| | | 100 | 0 | 23.9 | 24.1 | 24.1 | 18.0 | 18.3 | 18.2 |
| | 16QAM | 1 | 0 | **24.4** | 24.0 | 24.2 | **19.0** | 18.7 | 19.0 |
| | | 1 | 49 | 23.9 | 24.1 | 24.0 | 18.7 | 18.9 | 18.7 |
| | | 1 | 99 | 23.9 | 24.1 | 24.2 | 18.6 | 18.8 | 18.9 |
| | | 50 | 0 | 22.7 | 22.7 | 22.8 | 17.2 | 17.4 | 17.4 |
| | | 50 | 24 | 22.5 | 22.7 | 22.6 | 17.1 | 17.3 | 17.2 |
| | | 50 | 49 | 22.4 | 22.6 | 22.4 | 17.0 | 17.2 | 17.0 |
| | | 100 | 0 | 22.5 | 22.6 | 22.6 | 17.1 | 17.3 | 17.3 |
| | 64QAM | 1 | 0 | **23.3** | 22.9 | 23.2 | **17.9** | 17.6 | 17.8 |
| | | 1 | 49 | 22.8 | 23.0 | 22.9 | 17.6 | 17.8 | 17.5 |
| | | 1 | 99 | 22.9 | 23.0 | 23.1 | 17.5 | 17.7 | 17.7 |
| | | 50 | 0 | 21.6 | 21.7 | 21.7 | 16.2 | 16.3 | 16.3 |
| | | 50 | 24 | 21.4 | 21.6 | 21.5 | 16.0 | 16.3 | 16.1 |
| | | 50 | 49 | 21.3 | 21.5 | 21.4 | 16.0 | 16.2 | 15.9 |
| | | 100 | 0 | 21.4 | 21.6 | 21.6 | 16.0 | 16.3 | 16.2 |

# 7.8. LTE BAND 26 (Part 90S)

| ID: | 39004 | Date: | 6/4/18 |
|---|---|---|---|

**OUTPUT POWER FOR LTE BAND 26 (1.4 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 26697 | 26740 | 26783 | 26697 | 26740 | 26783 |
| | | | | 814.7 | 819.0 | 823.3 | 814.7 | 819.0 | 823.3 |
| 1.4 | QPSK | 1 | 0 | 25.4 | 25.3 | 25.4 | 23.3 | 23.4 | 23.4 |
| | | 1 | 2 | 25.4 | 25.3 | 25.4 | 23.3 | 23.4 | 23.4 |
| | | 1 | 5 | 25.4 | 25.4 | **25.5** | 23.3 | 23.3 | 23.5 |
| | | 3 | 0 | 25.4 | 25.4 | 25.5 | 23.3 | 23.4 | **23.5** |
| | | 3 | 1 | 25.4 | 25.4 | 25.5 | 23.3 | 23.4 | 23.4 |
| | | 3 | 2 | 25.4 | 25.4 | 25.5 | 23.3 | 23.4 | 23.5 |
| | | 6 | 0 | 24.4 | 24.3 | 24.4 | 22.3 | 22.3 | 22.4 |
| | 16QAM | 1 | 0 | 24.7 | 24.6 | **24.8** | 22.6 | 22.7 | 22.7 |
| | | 1 | 2 | 24.7 | 24.6 | 24.7 | 22.6 | 22.7 | 22.7 |
| | | 1 | 5 | 24.7 | 24.6 | 24.8 | 22.6 | 22.6 | **22.8** |
| | | 3 | 0 | 24.5 | 24.5 | 24.6 | 22.5 | 22.6 | 22.7 |
| | | 3 | 1 | 24.5 | 24.5 | 24.6 | 22.5 | 22.6 | 22.6 |
| | | 3 | 2 | 24.6 | 24.5 | 24.6 | 22.5 | 22.5 | 22.6 |
| | | 6 | 0 | 23.5 | 23.5 | 23.6 | 21.4 | 21.5 | 21.6 |
| | 64QAM | 1 | 0 | 23.8 | 23.6 | 23.8 | 21.7 | **21.9** | 21.9 |
| | | 1 | 2 | 23.8 | 23.6 | 23.8 | 21.7 | 21.8 | 21.9 |
| | | 1 | 5 | 23.8 | 23.6 | **23.9** | 21.8 | 21.8 | 21.8 |
| | | 3 | 0 | 23.7 | 23.5 | 23.7 | 21.6 | 21.7 | 21.7 |
| | | 3 | 1 | 23.6 | 23.5 | 23.7 | 21.5 | 21.7 | 21.7 |
| | | 3 | 2 | 23.6 | 23.5 | 23.7 | 21.6 | 21.6 | 21.7 |
| | | 6 | 0 | 22.5 | 22.5 | 22.6 | 20.5 | 20.5 | 20.6 |

**OUTPUT POWER FOR LTE BAND 26 (3.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 26705 | 26740 | 26775 | 26705 | 26740 | 26775 |
| | | | | 815.5 | 819.0 | 822.5 | 815.5 | 819.0 | 822.5 |
| 3.0 | QPSK | 1 | 0 | 25.4 | 25.3 | 25.3 | 23.3 | 23.3 | 23.4 |
| | | 1 | 7 | 25.4 | 25.4 | **25.5** | 23.4 | 23.4 | **23.5** |
| | | 1 | 14 | 25.3 | 25.4 | 25.5 | 23.3 | 23.3 | 23.4 |
| | | 8 | 0 | 24.4 | 24.3 | 24.4 | 22.3 | 22.4 | 22.4 |
| | | 8 | 4 | 24.4 | 24.3 | 24.4 | 22.3 | 22.4 | 22.5 |
| | | 8 | 7 | 24.4 | 24.4 | 24.4 | 22.3 | 22.3 | 22.5 |
| | | 15 | 0 | 24.4 | 24.4 | 24.4 | 22.3 | 22.3 | 22.5 |
| | 16QAM | 1 | 0 | 24.6 | 24.6 | 24.6 | 22.7 | 22.7 | 22.8 |
| | | 1 | 7 | 24.6 | 24.6 | **24.6** | 22.8 | 22.8 | **22.9** |
| | | 1 | 14 | 24.5 | 24.6 | 24.5 | 22.7 | 22.8 | 22.9 |
| | | 8 | 0 | 23.4 | 23.3 | 23.4 | 21.4 | 21.5 | 21.5 |
| | | 8 | 4 | 23.4 | 23.3 | 23.4 | 21.4 | 21.5 | 21.5 |
| | | 8 | 7 | 23.4 | 23.3 | 23.4 | 21.4 | 21.4 | 21.6 |
| | | 15 | 0 | 23.3 | 23.3 | 23.4 | 21.4 | 21.4 | 21.5 |
| | 64QAM | 1 | 0 | 23.5 | 23.4 | 23.6 | 21.5 | 21.6 | 21.8 |
| | | 1 | 7 | 23.7 | 23.5 | 23.7 | 21.7 | 21.8 | **21.8** |
| | | 1 | 14 | 23.5 | 23.6 | **23.7** | 21.7 | 21.5 | 21.8 |
| | | 8 | 0 | 22.4 | 22.3 | 22.4 | 20.4 | 20.5 | 20.5 |
| | | 8 | 4 | 22.4 | 22.4 | 22.4 | 20.5 | 20.5 | 20.6 |
| | | 8 | 7 | 22.4 | 22.4 | 22.5 | 20.5 | 20.5 | 20.6 |
| | | 15 | 0 | 22.4 | 22.3 | 22.4 | 20.4 | 20.4 | 20.5 |

**OUTPUT POWER FOR LTE BAND 26 (5.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 | | | Ant 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Conducted Average | | | Conducted Average | | |
| | | | | 26715 | 26740 | 26765 | 26715 | 26740 | 26765 |
| | | | | 816.5 | 819.0 | 821.5 | 816.5 | 819.0 | 821.5 |
| 5.0 | QPSK | 1 | 0 | 25.5 | 25.3 | 25.3 | 23.4 | 23.4 | 23.4 |
| | | 1 | 12 | 25.4 | 25.4 | 25.4 | **23.5** | 23.4 | 23.5 |
| | | 1 | 24 | 25.4 | 25.4 | **25.5** | 23.5 | 23.5 | 23.5 |
| | | 12 | 0 | 24.5 | 24.5 | 24.5 | 22.4 | 22.4 | 22.4 |
| | | 12 | 6 | 24.5 | 24.5 | 24.5 | 22.4 | 22.4 | 22.4 |
| | | 12 | 11 | 24.5 | 24.5 | 24.5 | 22.4 | 22.4 | 22.5 |
| | | 25 | 0 | 24.5 | 24.5 | 24.5 | 22.5 | 22.4 | 22.5 |
| | 16QAM | 1 | 0 | **24.9** | 24.8 | 24.8 | 22.7 | 22.7 | 22.7 |
| | | 1 | 12 | 24.7 | 24.8 | 24.8 | 22.7 | 22.7 | 22.7 |
| | | 1 | 24 | 24.8 | 24.9 | 24.9 | **22.8** | 22.8 | 22.8 |
| | | 12 | 0 | 23.7 | 23.6 | 23.6 | 21.5 | 21.5 | 21.4 |
| | | 12 | 6 | 23.6 | 23.6 | 23.6 | 21.5 | 21.5 | 21.5 |
| | | 12 | 11 | 23.6 | 23.6 | 23.7 | 21.5 | 21.5 | 21.6 |
| | | 25 | 0 | 23.5 | 23.5 | 23.5 | 21.5 | 21.4 | 21.5 |
| | 64QAM | 1 | 0 | 23.8 | 23.6 | 23.7 | 21.6 | 21.7 | 21.7 |
| | | 1 | 12 | 23.6 | 23.7 | 23.7 | 21.7 | 21.7 | 21.7 |
| | | 1 | 24 | 23.7 | 23.7 | **23.9** | **21.7** | 21.7 | 21.7 |
| | | 12 | 0 | 22.6 | 22.5 | 22.5 | 20.4 | 20.5 | 20.4 |
| | | 12 | 6 | 22.5 | 22.5 | 22.6 | 20.4 | 20.5 | 20.5 |
| | | 12 | 11 | 22.5 | 22.5 | 22.6 | 20.5 | 20.4 | 20.6 |
| | | 25 | 0 | 22.6 | 22.5 | 22.6 | 20.5 | 20.4 | 20.5 |

**OUTPUT POWER FOR LTE BAND 26 (10.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 | | | Ant 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Conducted Average | | | Conducted Average | | |
| | | | | N/A | 26740 | N/A | N/A | 26740 | N/A |
| | | | | N/A | 819.0 | N/A | N/A | 819.0 | N/A |
| 10.0 | QPSK | 1 | 0 | | 25.4 | | | 23.4 | |
| | | 1 | 24 | | 25.4 | | | 23.4 | |
| | | 1 | 49 | | **25.5** | | | **23.5** | |
| | | 25 | 0 | | 24.3 | | | 22.4 | |
| | | 25 | 12 | | 24.4 | | | 22.4 | |
| | | 25 | 24 | | 24.4 | | | 22.4 | |
| | | 50 | 0 | | 24.3 | | | 22.3 | |
| | 16QAM | 1 | 0 | | 24.8 | | | 22.7 | |
| | | 1 | 24 | | 24.7 | | | 22.9 | |
| | | 1 | 49 | | **24.8** | | | **22.9** | |
| | | 25 | 0 | | 23.5 | | | 21.5 | |
| | | 25 | 12 | | 23.5 | | | 21.5 | |
| | | 25 | 24 | | 23.5 | | | 21.5 | |
| | | 50 | 0 | | 23.4 | | | 21.4 | |
| | 64QAM | 1 | 0 | | 23.7 | | | 21.7 | |
| | | 1 | 24 | | 23.7 | | | 21.8 | |
| | | 1 | 49 | | **23.9** | | | **21.8** | |
| | | 25 | 0 | | 22.5 | | | 20.5 | |
| | | 25 | 12 | | 22.5 | | | 20.5 | |
| | | 25 | 24 | | 22.5 | | | 20.5 | |
| | | 50 | 0 | | 22.4 | | | 20.4 | |

## 7.9. LTE BAND 30

| ID: | 39004 | Date: | 6/4/18 |
|---|---|---|---|

**OUTPUT POWER FOR LTE BAND 30 (5.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 27685 | 27710 | 27735 | 27685 | 27710 | 27735 |
| | | | | 2307.5 | 2310.0 | 2312.5 | 2307.5 | 2310.0 | 2312.5 |
| 5.0 | QPSK | 1 | 0 | **23.5** | 23.4 | 23.3 | 20.3 | 20.4 | 20.2 |
| | | 1 | 12 | 23.4 | 23.2 | 23.3 | 20.3 | 20.3 | 20.3 |
| | | 1 | 24 | 23.4 | 23.4 | 23.4 | 20.3 | 20.4 | **20.5** |
| | | 12 | 0 | 22.5 | 22.3 | 22.2 | 19.3 | 19.4 | 19.4 |
| | | 12 | 6 | 22.5 | 22.3 | 22.3 | 19.4 | 19.3 | 19.4 |
| | | 12 | 11 | 22.3 | 22.2 | 22.2 | 19.3 | 19.3 | 19.4 |
| | | 25 | 0 | 22.5 | 22.2 | 22.3 | 19.4 | 19.4 | 19.4 |
| | 16QAM | 1 | 0 | **23.0** | 22.8 | 22.7 | 19.6 | 19.8 | 19.7 |
| | | 1 | 12 | 22.8 | 22.6 | 22.8 | 19.6 | 19.6 | 19.8 |
| | | 1 | 24 | 22.7 | 22.7 | 22.8 | 19.5 | 19.8 | **19.9** |
| | | 12 | 0 | 21.5 | 21.3 | 21.2 | 18.3 | 18.3 | 18.4 |
| | | 12 | 6 | 21.4 | 21.2 | 21.2 | 18.4 | 18.3 | 18.3 |
| | | 12 | 11 | 21.3 | 21.1 | 21.2 | 18.3 | 18.3 | 18.4 |
| | | 25 | 0 | 21.4 | 21.2 | 21.3 | 18.3 | 18.3 | 18.3 |
| | 64QAM | 1 | 0 | **21.8** | 21.6 | 21.4 | 18.7 | 18.6 | 18.4 |
| | | 1 | 12 | 21.6 | 21.4 | 21.5 | 18.6 | 18.4 | 18.5 |
| | | 1 | 24 | 21.6 | 21.6 | 21.6 | 18.4 | 18.6 | **18.7** |
| | | 12 | 0 | 20.4 | 20.2 | 20.0 | 17.3 | 17.2 | 17.2 |
| | | 12 | 6 | 20.4 | 20.2 | 20.2 | 17.3 | 17.2 | 17.3 |
| | | 12 | 11 | 20.3 | 20.1 | 20.0 | 17.3 | 17.2 | 17.3 |
| | | 25 | 0 | 20.4 | 20.1 | 20.2 | 17.3 | 17.3 | 17.3 |

**OUTPUT POWER FOR LTE BAND 30 (10.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | N/A | 27710 | N/A | N/A | 27710 | N/A |
| | | | | N/A | 2310.0 | N/A | N/A | 2310.0 | N/A |
| 10.0 | QPSK | 1 | 0 | | **23.5** | | | 20.4 | |
| | | 1 | 24 | | 23.3 | | | 20.3 | |
| | | 1 | 49 | | 23.4 | | | **20.5** | |
| | | 25 | 0 | | 22.5 | | | 19.5 | |
| | | 25 | 12 | | 22.4 | | | 19.5 | |
| | | 25 | 24 | | 22.3 | | | 19.5 | |
| | | 50 | 0 | | 22.3 | | | 19.5 | |
| | 16QAM | 1 | 0 | | **22.6** | | | 19.7 | |
| | | 1 | 24 | | 22.3 | | | 19.6 | |
| | | 1 | 49 | | 22.4 | | | **19.9** | |
| | | 25 | 0 | | 21.2 | | | 18.6 | |
| | | 25 | 12 | | 21.1 | | | 18.5 | |
| | | 25 | 24 | | 21.0 | | | 18.6 | |
| | | 50 | 0 | | 21.0 | | | 18.5 | |
| | 64QAM | 1 | 0 | | **21.4** | | | 18.6 | |
| | | 1 | 24 | | 21.2 | | | 18.5 | |
| | | 1 | 49 | | 21.2 | | | **18.7** | |
| | | 25 | 0 | | 20.2 | | | 17.5 | |
| | | 25 | 12 | | 20.1 | | | 17.5 | |
| | | 25 | 24 | | 20.0 | | | 17.5 | |
| | | 50 | 0 | | 20.0 | | | 17.5 | |

# 7.10. LTE BAND 41

| ID: | 39004 | Date: | 6/4/18 |
|---|---|---|---|

**OUTPUT POWER FOR LTE BAND 41 (5.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 | | | Ant 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Conducted Average | | | Conducted Average | | |
| | | | | 39675 | 40620 | 41565 | 39675 | 40620 | 41565 |
| | | | | 2498.5 | 2593.0 | 2687.5 | 2498.5 | 2593.0 | 2687.5 |
| 5.0 | QPSK | 1 | 0 | 23.9 | 26.6 | 26.4 | 19.6 | 22.5 | 22.1 |
| | | 1 | 12 | 26.9 | 26.6 | 26.4 | 22.6 | 22.5 | 22.0 |
| | | 1 | 24 | **27.0** | 26.6 | 26.4 | **22.7** | 22.5 | 22.1 |
| | | 12 | 0 | 22.8 | 26.3 | 26.2 | 18.5 | 21.4 | 21.0 |
| | | 12 | 6 | 22.8 | 26.3 | 26.1 | 18.6 | 21.4 | 21.0 |
| | | 12 | 11 | 25.8 | 26.3 | 26.1 | 21.6 | 21.4 | 21.0 |
| | | 25 | 0 | 22.8 | 26.3 | 26.2 | 18.6 | 21.4 | 21.1 |
| | 16QAM | 1 | 0 | 22.5 | **25.9** | 25.9 | 18.2 | 21.1 | 20.5 |
| | | 1 | 12 | 25.4 | 25.9 | 25.8 | 21.2 | 21.1 | 20.5 |
| | | 1 | 24 | 25.6 | 25.9 | 25.7 | **21.4** | 21.1 | 20.6 |
| | | 12 | 0 | 21.0 | 24.5 | 24.4 | 16.9 | 19.7 | 19.4 |
| | | 12 | 6 | 21.0 | 24.6 | 24.4 | 16.9 | 19.7 | 19.4 |
| | | 12 | 11 | 24.0 | 24.5 | 24.4 | 19.9 | 19.8 | 19.3 |
| | | 25 | 0 | 21.0 | 24.5 | 24.4 | 16.9 | 19.7 | 19.3 |
| | 64QAM | 1 | 0 | 21.2 | **24.9** | 24.7 | 17.1 | 20.0 | 19.6 |
| | | 1 | 12 | 24.3 | 24.8 | 24.7 | 20.1 | 20.0 | 19.6 |
| | | 1 | 24 | 24.4 | 24.8 | 24.6 | **20.1** | 20.0 | 19.7 |
| | | 12 | 0 | 20.0 | 23.5 | 23.3 | 15.8 | 18.7 | 18.3 |
| | | 12 | 6 | 20.0 | 23.5 | 23.3 | 15.8 | 18.8 | 18.3 |
| | | 12 | 11 | 23.0 | 23.5 | 23.3 | 18.7 | 18.7 | 18.3 |
| | | 25 | 0 | 20.0 | 23.5 | 23.3 | 15.8 | 18.8 | 18.3 |

**OUTPUT POWER FOR LTE BAND 41 (10.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 | | | Ant 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Conducted Average | | | Conducted Average | | |
| | | | | 39700 | 40620 | 41540 | 39700 | 40620 | 41540 |
| | | | | 2501.0 | 2593.0 | 2685.0 | 2501.0 | 2593.0 | 2685.0 |
| 10.0 | QPSK | 1 | 0 | 21.8 | 26.7 | 26.6 | 17.6 | 22.5 | 22.2 |
| | | 1 | 24 | 26.9 | 26.7 | 26.5 | 22.7 | 22.5 | 22.1 |
| | | 1 | 49 | **27.0** | 26.8 | 26.5 | **22.7** | 22.5 | 22.2 |
| | | 25 | 0 | 22.8 | 26.4 | 26.3 | 18.7 | 21.4 | 21.1 |
| | | 25 | 12 | 25.9 | 26.4 | 26.3 | 21.6 | 21.5 | 21.1 |
| | | 25 | 24 | 24.9 | 26.4 | 26.3 | 20.7 | 21.5 | 21.1 |
| | | 50 | 0 | 22.9 | 26.4 | 26.2 | 18.7 | 21.5 | 21.0 |
| | 16QAM | 1 | 0 | 20.2 | 25.8 | 25.7 | 16.8 | 21.6 | 21.3 |
| | | 1 | 24 | 25.2 | 25.8 | 25.6 | 21.9 | 21.7 | 21.2 |
| | | 1 | 49 | 25.3 | **25.9** | 25.5 | **21.9** | 21.7 | 21.3 |
| | | 25 | 0 | 20.9 | 24.5 | 24.4 | 17.7 | 20.5 | 20.1 |
| | | 25 | 12 | 23.9 | 24.5 | 24.4 | 20.7 | 20.5 | 20.1 |
| | | 25 | 24 | 22.9 | 24.5 | 24.4 | 19.7 | 20.5 | 20.1 |
| | | 50 | 0 | 20.9 | 24.5 | 24.3 | 17.6 | 20.4 | 20.0 |
| | 64QAM | 1 | 0 | 19.1 | 24.7 | 24.6 | 15.7 | 20.5 | 20.1 |
| | | 1 | 24 | 24.2 | 24.7 | 24.6 | 20.7 | 20.5 | 20.0 |
| | | 1 | 49 | 24.2 | **24.7** | 24.4 | **20.7** | 20.6 | 20.1 |
| | | 25 | 0 | 19.9 | 23.5 | 23.4 | 16.7 | 19.5 | 19.1 |
| | | 25 | 12 | 22.9 | 23.5 | 23.4 | 19.7 | 19.5 | 19.1 |
| | | 25 | 24 | 21.9 | 23.5 | 23.4 | 18.7 | 19.5 | 19.1 |
| | | 50 | 0 | 19.9 | 23.5 | 23.3 | 16.6 | 19.5 | 19.0 |

**OUTPUT POWER FOR LTE BAND 41 (15.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 | | | Ant 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Conducted Average | | | Conducted Average | | |
| | | | | 39725 | 40620 | 41515 | 39725 | 40620 | 41515 |
| | | | | 2503.5 | 2593.0 | 2682.5 | 2503.5 | 2593.0 | 2682.5 |
| 15.0 | QPSK | 1 | 0 | 21.8 | 26.6 | 26.6 | 17.6 | 22.5 | 22.0 |
| | | 1 | 37 | 26.8 | 26.7 | 26.6 | **22.7** | 22.5 | 22.0 |
| | | 1 | 74 | **27.0** | 26.7 | 26.4 | 22.7 | 22.5 | 22.1 |
| | | 36 | 0 | 21.8 | 26.3 | 26.3 | 17.7 | 21.4 | 21.0 |
| | | 36 | 16 | 25.9 | 26.4 | 26.3 | 21.7 | 21.5 | 21.1 |
| | | 36 | 35 | 22.9 | 26.5 | 26.3 | 18.7 | 21.5 | 21.1 |
| | | 75 | 0 | 21.8 | 26.4 | 26.2 | 17.7 | 21.4 | 21.0 |
| | 16QAM | 1 | 0 | 20.5 | 25.9 | 25.9 | 16.7 | 21.5 | 21.2 |
| | | 1 | 37 | 25.5 | 26.0 | 25.8 | 21.8 | 21.6 | 21.2 |
| | | 1 | 74 | 25.6 | **26.0** | 25.7 | **21.8** | 21.5 | 21.1 |
| | | 36 | 0 | 20.3 | 24.7 | 24.7 | 16.5 | 20.3 | 19.9 |
| | | 36 | 16 | 24.3 | 24.8 | 24.7 | 20.6 | 20.4 | 20.0 |
| | | 36 | 35 | 21.3 | 24.9 | 24.6 | 17.6 | 20.3 | 19.9 |
| | | 75 | 0 | 20.2 | 24.7 | 24.6 | 16.5 | 20.3 | 19.9 |
| | 64QAM | 1 | 0 | 19.5 | 25.0 | 24.9 | 15.7 | 20.4 | 20.0 |
| | | 1 | 37 | 24.5 | 25.0 | 24.9 | **20.6** | 20.4 | 20.0 |
| | | 1 | 74 | 24.7 | **25.1** | 24.7 | 20.6 | 20.4 | 20.0 |
| | | 36 | 0 | 19.2 | 23.8 | 23.7 | 15.6 | 19.3 | 18.9 |
| | | 36 | 16 | 23.3 | 23.8 | 23.7 | 19.6 | 19.4 | 18.9 |
| | | 36 | 35 | 20.3 | 23.9 | 23.6 | 16.6 | 19.4 | 18.9 |
| | | 75 | 0 | 19.2 | 23.7 | 23.6 | 15.5 | 19.3 | 18.8 |

**OUTPUT POWER FOR LTE BAND 41 (20.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 | | | Ant 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Conducted Average | | | Conducted Average | | |
| | | | | 39750 | 40620 | 41490 | 39750 | 40620 | 41490 |
| | | | | 2506.0 | 2593.0 | 2680.0 | 2506.0 | 2593.0 | 2680.0 |
| 20.0 | QPSK | 1 | 0 | 22.1 | 26.1 | 26.1 | 17.7 | 22.6 | 22.1 |
| | | 1 | 49 | 26.9 | 26.1 | 26.0 | 22.7 | 22.5 | 22.0 |
| | | 1 | 99 | **27.0** | 26.3 | 25.9 | **22.7** | 22.6 | 22.1 |
| | | 50 | 0 | 21.9 | 25.7 | 25.7 | 17.7 | 21.4 | 21.0 |
| | | 50 | 24 | 25.9 | 25.8 | 25.6 | 21.7 | 21.5 | 21.1 |
| | | 50 | 49 | 22.8 | 25.9 | 25.6 | 18.7 | 21.5 | 21.1 |
| | | 100 | 0 | 21.9 | 25.8 | 25.6 | 17.7 | 21.5 | 21.1 |
| | 16QAM | 1 | 0 | 21.4 | 26.2 | 26.3 | 17.1 | 21.9 | 21.5 |
| | | 1 | 49 | 26.2 | 26.3 | 26.2 | 22.0 | 21.9 | 21.4 |
| | | 1 | 99 | 26.3 | **26.4** | 26.1 | **22.1** | 22.0 | 21.4 |
| | | 50 | 0 | 20.9 | 24.8 | 24.7 | 16.8 | 20.5 | 20.1 |
| | | 50 | 24 | 24.8 | 24.9 | 24.7 | 20.7 | 20.5 | 20.1 |
| | | 50 | 49 | 21.9 | 24.9 | 24.7 | 17.8 | 20.5 | 20.1 |
| | | 100 | 0 | 20.9 | 24.8 | 24.7 | 16.7 | 20.5 | 20.1 |
| | 64QAM | 1 | 0 | 20.1 | 25.2 | 25.2 | 16.0 | 20.8 | 20.4 |
| | | 1 | 49 | 25.2 | 25.2 | 25.1 | 20.9 | 20.8 | 20.3 |
| | | 1 | 99 | 25.3 | **25.4** | 25.0 | **21.0** | 20.8 | 20.3 |
| | | 50 | 0 | 19.9 | 23.8 | 23.7 | 15.8 | 19.5 | 19.1 |
| | | 50 | 24 | 23.9 | 23.9 | 23.7 | 19.7 | 19.5 | 19.1 |
| | | 50 | 49 | 21.0 | 23.9 | 23.7 | 16.8 | 19.5 | 19.1 |
| | | 100 | 0 | 19.9 | 23.8 | 23.7 | 15.7 | 19.5 | 19.1 |

# 7.11. LTE BAND 66

| ID: | 10646 | Date: | 6/4/18 |
|---|---|---|---|

**OUTPUT POWER FOR LTE BAND 66 (1.4 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 131979 | 132322 | 132665 | 131979 | 132322 | 132665 |
| | | | | 1710.7 | 1745.0 | 1779.3 | 1710.7 | 1745.0 | 1779.3 |
| 1.4 | QPSK | 1 | 0 | 25.4 | 25.3 | 25.2 | 21.3 | 21.5 | 21.4 |
| | | 1 | 2 | 25.4 | 25.3 | 25.3 | 21.3 | **21.5** | 21.4 |
| | | 1 | 5 | **25.5** | 25.4 | 25.4 | 21.1 | 21.3 | 21.3 |
| | | 3 | 0 | 25.4 | 25.3 | 25.3 | 21.1 | 21.3 | 21.4 |
| | | 3 | 1 | 25.4 | 25.3 | 25.3 | 20.9 | 21.2 | 21.4 |
| | | 3 | 2 | 25.4 | 25.3 | 25.3 | 21.3 | 21.1 | 21.3 |
| | | 6 | 0 | 24.4 | 24.3 | 24.3 | 20.9 | 20.9 | 21.0 |
| | 16QAM | 1 | 0 | 24.8 | 24.5 | 24.6 | 19.9 | 20.7 | 20.7 |
| | | 1 | 2 | **24.8** | 24.5 | 24.6 | 20.1 | 20.7 | **20.9** |
| | | 1 | 5 | 24.8 | 24.5 | 24.6 | 20.1 | 20.6 | 20.7 |
| | | 3 | 0 | 24.6 | 24.4 | 24.5 | 20.3 | 20.8 | 20.8 |
| | | 3 | 1 | 24.5 | 24.4 | 24.5 | 20.4 | 20.6 | 20.8 |
| | | 3 | 2 | 24.5 | 24.4 | 24.5 | 20.4 | 20.7 | 20.8 |
| | | 6 | 0 | 23.4 | 23.3 | 23.4 | 20.2 | 20.2 | 20.1 |
| | 64QAM | 1 | 0 | 23.0 | 22.9 | 23.0 | 19.8 | 19.9 | 19.6 |
| | | 1 | 2 | 22.9 | 22.9 | 23.0 | 19.8 | **19.9** | 19.7 |
| | | 1 | 5 | 23.0 | 22.9 | **23.0** | 19.8 | 19.8 | 19.8 |
| | | 3 | 0 | 22.9 | 22.7 | 22.8 | 19.7 | 19.7 | 19.6 |
| | | 3 | 1 | 22.9 | 22.7 | 22.8 | 19.7 | 19.6 | 19.6 |
| | | 3 | 2 | 22.9 | 22.7 | 22.8 | 19.7 | 19.7 | 19.6 |
| | | 6 | 0 | 21.8 | 21.7 | 21.7 | 18.6 | 18.6 | 18.5 |

**OUTPUT POWER FOR LTE BAND 66 (3.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 131987 | 132322 | 132657 | 131987 | 132322 | 132657 |
| | | | | 1711.5 | 1745.0 | 1778.5 | 1711.5 | 1745.0 | 1778.5 |
| 3.0 | QPSK | 1 | 0 | 25.5 | 25.3 | 25.4 | 21.0 | 20.3 | 20.7 |
| | | 1 | 7 | **25.5** | 25.4 | 25.5 | 20.9 | 20.3 | 20.7 |
| | | 1 | 14 | 25.5 | 25.4 | 25.5 | 21.0 | **21.5** | 20.6 |
| | | 8 | 0 | 24.5 | 24.4 | 24.4 | 20.8 | 21.0 | 20.6 |
| | | 8 | 4 | 24.4 | 24.4 | 24.4 | 20.8 | 20.9 | 20.5 |
| | | 8 | 7 | 24.4 | 24.4 | 24.4 | 20.9 | 21.0 | 20.5 |
| | | 15 | 0 | 24.5 | 24.3 | 24.4 | 20.8 | 21.0 | 20.5 |
| | 16QAM | 1 | 0 | 24.9 | 24.8 | 24.6 | 20.3 | 20.5 | 20.1 |
| | | 1 | 7 | **25.0** | 24.8 | 24.7 | 20.4 | 20.6 | 19.6 |
| | | 1 | 14 | 24.9 | 24.7 | 24.7 | 20.4 | **20.7** | 19.5 |
| | | 8 | 0 | 23.5 | 23.4 | 23.5 | 19.8 | 19.7 | 19.6 |
| | | 8 | 4 | 23.5 | 23.4 | 23.5 | 19.7 | 19.7 | 19.5 |
| | | 8 | 7 | 23.5 | 23.4 | 23.5 | 19.7 | 19.7 | 19.5 |
| | | 15 | 0 | 23.4 | 23.3 | 23.4 | 19.7 | 19.6 | 19.5 |
| | 64QAM | 1 | 0 | 23.0 | 22.8 | 23.0 | **19.7** | 19.7 | 19.5 |
| | | 1 | 7 | **23.2** | 23.0 | 23.0 | 19.7 | 19.7 | 19.5 |
| | | 1 | 14 | 23.1 | 23.0 | 23.0 | 19.7 | 19.6 | 19.4 |
| | | 8 | 0 | 21.9 | 21.7 | 21.8 | 18.5 | 18.5 | 18.4 |
| | | 8 | 4 | 21.9 | 21.7 | 21.8 | 18.5 | 18.5 | 18.4 |
| | | 8 | 7 | 21.9 | 21.7 | 21.8 | 18.5 | 18.5 | 18.4 |
| | | 15 | 0 | 21.8 | 21.7 | 21.8 | 18.4 | 18.5 | 18.3 |

## OUTPUT POWER FOR LTE BAND 66 (5.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 131997 | 132322 | 132647 | 131997 | 132322 | 132647 |
| | | | | 1712.5 | 1745.0 | 1777.5 | 1712.5 | 1745.0 | 1777.5 |
| 5.0 | QPSK | 1 | 0 | 25.5 | 25.4 | 25.4 | 21.4 | 21.5 | 21.4 |
| | | 1 | 12 | 25.4 | 25.4 | 25.4 | 21.4 | 21.5 | 21.4 |
| | | 1 | 24 | 25.5 | 25.5 | **25.5** | 21.5 | **21.5** | 21.3 |
| | | 12 | 0 | 24.5 | 24.4 | 24.4 | 20.4 | 20.4 | 20.3 |
| | | 12 | 6 | 24.5 | 24.5 | 24.4 | 20.4 | 20.4 | 20.3 |
| | | 12 | 11 | 24.5 | 24.5 | 24.5 | 20.4 | 20.4 | 20.3 |
| | | 25 | 0 | 24.5 | 24.5 | 24.5 | 20.4 | 20.4 | 20.3 |
| | 16QAM | 1 | 0 | **24.9** | 24.7 | 24.7 | **20.8** | 20.8 | 20.7 |
| | | 1 | 12 | 24.8 | 24.7 | 24.7 | 20.8 | 20.7 | 20.7 |
| | | 1 | 24 | 24.9 | 24.8 | 24.7 | 20.8 | 20.8 | 20.6 |
| | | 12 | 0 | 23.6 | 23.5 | 23.5 | 19.5 | 19.5 | 19.4 |
| | | 12 | 6 | 23.5 | 23.5 | 23.5 | 19.6 | 19.5 | 19.5 |
| | | 12 | 11 | 23.5 | 23.5 | 23.5 | 19.5 | 19.5 | 19.4 |
| | | 25 | 0 | 23.5 | 23.4 | 23.5 | 19.5 | 19.5 | 19.5 |
| | 64QAM | 1 | 0 | **23.7** | 23.5 | 23.5 | 19.6 | 19.7 | 19.6 |
| | | 1 | 12 | 23.6 | 23.6 | 23.5 | 19.7 | 19.7 | 19.6 |
| | | 1 | 24 | 23.6 | 23.6 | 23.6 | **19.7** | 19.6 | 19.5 |
| | | 12 | 0 | 22.4 | 22.4 | 22.4 | 18.4 | 18.5 | 18.4 |
| | | 12 | 6 | 22.4 | 22.4 | 22.4 | 18.5 | 18.4 | 18.4 |
| | | 12 | 11 | 22.4 | 22.4 | 22.4 | 18.5 | 18.4 | 18.4 |
| | | 25 | 0 | 22.4 | 22.4 | 22.4 | 18.5 | 18.4 | 18.4 |

## OUTPUT POWER FOR LTE BAND 66 (10.0 MHz)

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 Conducted Average | | | Ant 2 Conducted Average | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 132022 | 132322 | 132622 | 132022 | 132322 | 132622 |
| | | | | 1715.0 | 1745.0 | 1775.0 | 1715.0 | 1745.0 | 1775.0 |
| 10.0 | QPSK | 1 | 0 | 25.4 | 25.2 | 25.4 | 21.5 | 21.4 | 21.4 |
| | | 1 | 24 | 25.3 | 25.3 | 25.3 | **21.5** | 21.4 | 21.4 |
| | | 1 | 49 | 25.5 | **25.5** | 25.4 | 21.5 | 21.5 | 21.3 |
| | | 25 | 0 | 24.2 | 24.2 | 24.2 | 20.4 | 20.3 | 20.3 |
| | | 25 | 12 | 24.2 | 24.2 | 24.2 | 20.3 | 20.3 | 20.2 |
| | | 25 | 24 | 24.3 | 24.2 | 24.2 | 20.3 | 20.3 | 20.2 |
| | | 50 | 0 | 24.3 | 24.2 | 24.2 | 20.3 | 20.3 | 20.3 |
| | 16QAM | 1 | 0 | 24.7 | 24.5 | 24.7 | 20.9 | 20.9 | 20.9 |
| | | 1 | 24 | 24.8 | 24.6 | 24.6 | 20.9 | 20.9 | 20.8 |
| | | 1 | 49 | 24.7 | **24.8** | 24.6 | 20.8 | **20.9** | 20.7 |
| | | 25 | 0 | 23.4 | 23.3 | 23.3 | 19.5 | 19.4 | 19.4 |
| | | 25 | 12 | 23.3 | 23.3 | 23.3 | 19.4 | 19.4 | 19.4 |
| | | 25 | 24 | 23.4 | 23.3 | 23.3 | 19.4 | 19.4 | 19.4 |
| | | 50 | 0 | 23.3 | 23.2 | 23.2 | 19.4 | 19.4 | 19.3 |
| | 64QAM | 1 | 0 | 23.6 | 23.4 | 23.6 | **19.8** | 19.7 | 19.7 |
| | | 1 | 24 | 23.5 | 23.5 | 23.4 | 19.7 | 19.7 | 19.7 |
| | | 1 | 49 | 23.6 | **23.7** | 23.5 | 19.7 | 19.7 | 19.5 |
| | | 25 | 0 | 22.3 | 22.3 | 22.3 | 18.5 | 18.4 | 18.4 |
| | | 25 | 12 | 22.3 | 22.3 | 22.2 | 18.5 | 18.4 | 18.3 |
| | | 25 | 24 | 22.3 | 22.3 | 22.3 | 18.5 | 18.4 | 18.4 |
| | | 50 | 0 | 22.3 | 22.2 | 22.2 | 18.4 | 18.4 | 18.3 |

**OUTPUT POWER FOR LTE BAND 66 (15.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 | | | Ant 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Conducted Average | | | Conducted Average | | |
| | | | | 132047 | 132322 | 132597 | 132047 | 132322 | 132597 |
| | | | | 1717.5 | 1745.0 | 1772.5 | 1717.5 | 1745.0 | 1772.5 |
| 15.0 | QPSK | 1 | 0 | 25.3 | 25.1 | 25.5 | 21.4 | 21.3 | 21.4 |
| | | 1 | 37 | 25.4 | 25.3 | 25.3 | 21.5 | 21.4 | 21.4 |
| | | 1 | 74 | 25.2 | **25.5** | 25.4 | 21.3 | **21.5** | 21.3 |
| | | 36 | 0 | 24.3 | 24.1 | 24.4 | 20.3 | 20.2 | 20.3 |
| | | 36 | 16 | 24.3 | 24.2 | 24.2 | 20.3 | 20.3 | 20.3 |
| | | 36 | 35 | 24.3 | 24.2 | 24.2 | 20.3 | 20.3 | 20.2 |
| | | 75 | 0 | 24.3 | 24.2 | 24.3 | 20.4 | 20.3 | 20.3 |
| | 16QAM | 1 | 0 | 24.7 | 24.5 | **24.9** | 20.9 | 20.8 | **20.9** |
| | | 1 | 37 | 24.7 | 24.7 | 24.6 | 20.9 | 20.9 | 20.8 |
| | | 1 | 74 | 24.5 | 24.7 | 24.6 | 20.7 | 20.8 | 20.7 |
| | | 36 | 0 | 23.2 | 23.2 | 23.5 | 19.4 | 19.3 | 19.4 |
| | | 36 | 16 | 23.3 | 23.2 | 23.3 | 19.4 | 19.4 | 19.3 |
| | | 36 | 35 | 23.3 | 23.3 | 23.2 | 19.3 | 19.4 | 19.3 |
| | | 75 | 0 | 23.3 | 23.2 | 23.2 | 19.4 | 19.4 | 19.3 |
| | 64QAM | 1 | 0 | 23.3 | 23.1 | **23.5** | 19.7 | 19.7 | **19.7** |
| | | 1 | 37 | 23.4 | 23.3 | 23.3 | 19.7 | 19.7 | 19.7 |
| | | 1 | 74 | 23.2 | 23.4 | 23.3 | 19.5 | 19.7 | 19.4 |
| | | 36 | 0 | 22.0 | 21.9 | 22.2 | 18.4 | 18.3 | 18.3 |
| | | 36 | 16 | 22.1 | 22.0 | 22.0 | 18.4 | 18.4 | 18.4 |
| | | 36 | 35 | 22.1 | 22.1 | 22.0 | 18.4 | 18.4 | 18.3 |
| | | 75 | 0 | 22.1 | 22.0 | 22.0 | 18.4 | 18.3 | 18.3 |

**OUTPUT POWER FOR LTE BAND 66 (20.0 MHz)**

| Bandwidth (MHz) | Modulation | RB Allocation | RB Offset | Ant 1 | | | Ant 2 | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Conducted Average | | | Conducted Average | | |
| | | | | 132072 | 132322 | 132572 | 132072 | 132322 | 132572 |
| | | | | 1720.0 | 1745.0 | 1770.0 | 1720.0 | 1745.0 | 1770.0 |
| 20.0 | QPSK | 1 | 0 | 25.3 | 25.1 | 25.4 | 21.4 | 21.5 | 21.4 |
| | | 1 | 49 | 25.3 | 25.3 | 25.3 | 21.4 | 21.5 | 21.4 |
| | | 1 | 99 | 25.3 | **25.5** | 25.4 | 21.4 | **21.5** | 21.3 |
| | | 50 | 0 | 24.3 | 24.0 | 24.3 | 20.3 | 20.2 | 20.3 |
| | | 50 | 24 | 24.3 | 24.1 | 24.2 | 20.3 | 20.3 | 20.3 |
| | | 50 | 49 | 24.0 | 24.2 | 24.1 | 20.2 | 20.4 | 20.3 |
| | | 100 | 0 | 24.2 | 24.1 | 24.2 | 20.3 | 20.4 | 20.3 |
| | 16QAM | 1 | 0 | 24.6 | 24.4 | **24.8** | 21.0 | 20.9 | **21.0** |
| | | 1 | 49 | 24.6 | 24.5 | 24.6 | 20.8 | 20.9 | 20.9 |
| | | 1 | 99 | 24.4 | 24.6 | 24.4 | 20.8 | 20.9 | 20.7 |
| | | 50 | 0 | 23.1 | 23.0 | 23.3 | 19.4 | 19.3 | 19.4 |
| | | 50 | 24 | 23.1 | 23.0 | 23.1 | 19.3 | 19.4 | 19.3 |
| | | 50 | 49 | 22.9 | 23.1 | 23.0 | 19.2 | 19.4 | 19.3 |
| | | 100 | 0 | 23.1 | 23.0 | 23.1 | 19.3 | 19.4 | 19.3 |
| | 64QAM | 1 | 0 | 23.5 | 23.3 | **23.6** | 19.8 | 19.8 | **19.9** |
| | | 1 | 49 | 23.5 | 23.4 | 23.5 | 19.7 | 19.8 | 19.8 |
| | | 1 | 99 | 23.4 | 23.6 | 23.4 | 19.7 | 19.8 | 19.6 |
| | | 50 | 0 | 22.1 | 21.9 | 22.1 | 18.4 | 18.2 | 18.3 |
| | | 50 | 24 | 22.1 | 22.0 | 22.0 | 18.3 | 18.3 | 18.3 |
| | | 50 | 49 | 21.8 | 22.1 | 21.9 | 18.2 | 18.3 | 18.3 |
| | | 100 | 0 | 22.1 | 22.0 | 22.0 | 18.3 | 18.4 | 18.3 |

# 8. CONDUCTED TEST RESULTS

## 8.1. OCCUPIED BANDWIDTH

**RULE PART(S)**

§2.1049

**LIMITS**

For reporting purposes only.

**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. The occupied bandwidth was measured with the spectrum analyzer at the middle channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

**MODES TESTED**

- LTE Band 2
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 14
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 30
- LTE Band 41
- LTE Band 66

**RESULTS**

There is no limit required and power is the same for low, middle and high channel; therefore, only middle channel was tested.

**LTE BAND 2**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 2 | 1.4 MHz, QPSK | 6/0 | 1880.0 | 1.0909 | 1.240 |
| | 1.4 MHz,16QAM | | | 1.0947 | 1.246 |
| | 1.4 MHz,64QAM | | | 1.0946 | 1.251 |
| | 3 MHz, QPSK | 15/0 | | 2.7068 | 2.993 |
| | 3 MHz, 16QAM | | | 2.7010 | 2.982 |
| | 3 MHz, 64QAM | | | 2.7068 | 2.992 |
| | 5 MHz, QPSK | 25/0 | | 4.4995 | 4.919 |
| | 5 MHz, 16QAM | | | 4.5023 | 4.926 |
| | 5 MHz, 64QAM | | | 4.4966 | 4.925 |
| | 10 MHz, QPSK | 50/0 | | 9.0123 | 10.370 |
| | 10 MHz, 16QAM | | | 9.0052 | 10.440 |
| | 10 MHz, 64QAM | | | 8.9938 | 10.030 |
| | 15 MHz, QPSK | 75/0 | | 13.4830 | 15.490 |
| | 15 MHz, 16QAM | | | 13.4690 | 15.500 |
| | 15 MHz, 64QAM | | | 13.541 | 15.670 |
| | 20 MHz, QPSK | 100/0 | | 17.991 | 19.690 |
| | 20 MHz, 16QAM | | | 17.980 | 20.160 |
| | 20 MHz, 64QAM | | | 17.9531 | 18.561 |

**LTE BAND 5**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 5 | 1.4 MHz, QPSK | 6/0 | 836.5 | 1.0910 | 1.244 |
| | 1.4 MHz,16QAM | | | 1.0932 | 1.247 |
| | 1.4 MHz, 64QAM | | | 1.0774 | 1.211 |
| | 3 MHz, QPSK | 15/0 | | 2.7038 | 2.993 |
| | 3 MHz, 16QAM | | | 2.7064 | 2.991 |
| | 3 MHz, 64QAM | | | 2.6894 | 2.805 |
| | 5 MHz, QPSK | 25/0 | | 4.5007 | 4.937 |
| | 5 MHz, 16QAM | | | 4.4990 | 4.937 |
| | 5 MHz, 64QAM | | | 4.4875 | 4.685 |
| | 10 MHz, QPSK | 50/0 | | 9.0190 | 10.360 |
| | 10 MHz, 16QAM | | | 9.0146 | 10.400 |
| | 10 MHz, 64QAM | | | 8.9292 | 9.348 |

**LTE BAND 7**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 7 | 5 MHz, QPSK | 25/0 | 2535.0 | 4.4955 | 4.929 |
| | 5 MHz, 16QAM | | | 4.5035 | 4.931 |
| | 5 MHz, 64QAM | | | 4.4980 | 4.945 |
| | 10 MHz, QPSK | 50/0 | | 9.0035 | 10.420 |
| | 10 MHz, 16QAM | | | 9.0114 | 10.500 |
| | 10 MHz, 64QAM | | | 8.9839 | 10.010 |
| | 15 MHz, QPSK | 75/0 | | 13.4840 | 15.630 |
| | 15 MHz, 16QAM | | | 13.4960 | 15.400 |
| | 15 MHz, 64QAM | | | 13.4950 | 15.470 |
| | 20 MHz, QPSK | 100/0 | | 17.9820 | 19.780 |
| | 20 MHz, 16QAM | | | 17.9320 | 20.050 |
| | 20 MHz, 64QAM | | | 17.9830 | 19.780 |

**LTE BAND 12**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 12 | 1.4 MHz, QPSK | 6/0 | 707.5 | 1.0933 | 1.242 |
| | 1.4 MHz,16QAM | | | 1.0933 | 1.246 |
| | 1.4 MHz, 64QAM | | | 1.0936 | 1.249 |
| | 3 MHz, QPSK | 15/0 | | 2.7037 | 2.991 |
| | 3 MHz, 16QAM | | | 2.7120 | 2.981 |
| | 3 MHz, 64QAM | | | 2.7121 | 2.998 |
| | 5 MHz, QPSK | 25/0 | | 4.4959 | 4.909 |
| | 5 MHz, 16QAM | | | 4.4988 | 4.944 |
| | 5 MHz, 64QAM | | | 4.5074 | 4.939 |
| | 10 MHz, QPSK | 50/0 | | 8.9840 | 9.636 |
| | 10 MHz, 16QAM | | | 8.9520 | 9.897 |
| | 10 MHz, 64QAM | | | 8.9824 | 9.726 |

**LTE BAND 13**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 13 | 5 MHz, QPSK | 25/0 | 782.0 | 4.5056 | 4.958 |
| | 5 MHz, 16QAM | | | 4.5045 | 4.943 |
| | 5 MHz, 64QAM | | | 4.5021 | 4.753 |
| | 10 MHz, QPSK | 50/0 | | 8.9765 | 10.082 |
| | 10 MHz, 16QAM | | | 8.9527 | 10.357 |
| | 10 MHz, 64QAM | | | 8.9127 | 9.387 |

**LTE BAND 14**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 14 | 5 MHz, QPSK | 25/0 | 793 | 4.4964 | 4.791 |
| | 5 MHz, 16QAM | | | 4.4909 | 4.963 |
| | 5 MHz, 64QAM | | | 4.4962 | 4.910 |
| | 10 MHz, QPSK | 50/0 | | 8.9950 | 10.387 |
| | 10 MHz, 16QAM | | | 8.9917 | 10.361 |
| | 10 MHz, 64QAM | | | 8.9966 | 10.030 |

**LTE BAND 17**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 17 | 5 MHz, QPSK | 25/0 | 710.0 | 4.5012 | 4.822 |
| | 5 MHz, 16QAM | | | 4.5030 | 4.944 |
| | 5 MHz, 64QAM | | | 4.5019 | 4.746 |
| | 10 MHz, QPSK | 50/0 | | 8.9926 | 10.335 |
| | 10 MHz, 16QAM | | | 8.9953 | 10.328 |
| | 10 MHz, 64QAM | | | 8.9080 | 9.398 |

**LTE BAND 25**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 25 | 1.4 MHz, QPSK | 6/0 | 1882.5 | 1.0866 | 1.247 |
| | 1.4 MHz,16QAM | | | 1.0871 | 1.238 |
| | 1.4 MHz, 64QAM | | | 1.0927 | 1.241 |
| | 3 MHz, QPSK | 15/0 | | 2.6994 | 2.996 |
| | 3 MHz, 16QAM | | | 2.6845 | 2.986 |
| | 3 MHz, 64QAM | | | 2.7038 | 2.993 |
| | 5 MHz, QPSK | 25/0 | | 4.5085 | 4.933 |
| | 5 MHz, 16QAM | | | 4.5023 | 4.951 |
| | 5 MHz, 64QAM | | | 4.5024 | 4.920 |
| | 10 MHz, QPSK | 50/0 | | 8.9935 | 10.163 |
| | 10 MHz, 16QAM | | | 9.0249 | 10.265 |
| | 10 MHz, 64QAM | | | 8.9949 | 10.050 |
| | 15 MHz, QPSK | 75/0 | | 13.4259 | 15.458 |
| | 15 MHz, 16QAM | | | 13.4397 | 15.064 |
| | 15 MHz, 64QAM | | | 13.5050 | 15.620 |
| | 20 MHz, QPSK | 100/0 | | 17.9397 | 19.569 |
| | 20 MHz, 16QAM | | | 17.8631 | 19.910 |
| | 20 MHz, 64QAM | | | 17.8563 | 19.592 |

**LTE BAND 26 (PART 90S)**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 26 | 1.4 MHz, QPSK | 1/0 | 819.0 | 0.24746 | 0.3259 |
| | 1.4 MHz,16QAM | | | 0.25804 | 0.3646 |
| | 1.4 MHz, 64QAM | | | 0.26155 | 0.3768 |
| | 1.4 MHz, QPSK | 6/0 | | 1.0931 | 1.247 |
| | 1.4 MHz,16QAM | | | 1.0924 | 1.249 |
| | 1.4 MHz, 64QAM | | | 1.0817 | 1.222 |
| | 3 MHz, QPSK | 1/0 | | 0.25407 | 0.3916 |
| | 3 MHz, 16QAM | | | 0.27647 | 0.3944 |
| | 3 MHz, 64QAM | | | 0.26304 | 0.4285 |
| | 3 MHz, QPSK | 15/0 | | 2.7052 | 2.996 |
| | 3 MHz, 16QAM | | | 2.7059 | 2.990 |
| | 3 MHz, 64QAM | | | 2.6857 | 2.879 |
| | 5 MHz, QPSK | 1/0 | | 0.23227 | 0.3938 |
| | 5 MHz, 16QAM | | | 0.23166 | 0.4132 |
| | 5 MHz, 64QAM | | | 0.22828 | 0.3938 |
| | 5 MHz, QPSK | 25/0 | | 4.5236 | 4.952 |
| | 5 MHz, 16QAM | | | 4.4962 | 4.927 |
| | 5 MHz, 64QAM | | | 4.4671 | 4.726 |
| | 10 MHz, QPSK | 1/0 | | 0.25824 | 0.4020 |
| | 10 MHz, 16QAM | | | 0.27523 | 0.4269 |
| | 10 MHz, 64QAM | | | 0.26208 | 0.3949 |
| | 10 MHz, QPSK | 50/0 | | 9.0119 | 10.390 |
| | 10 MHz, 16QAM | | | 9.0102 | 10.490 |
| | 10 MHz, 64QAM | | | 8.9369 | 9.354 |

**LTE BAND 30**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 30 | 5 MHz, QPSK | 25/0 | 2310.0 | 4.4987 | 4.928 |
| | 5 MHz, 16QAM | | | 4.5104 | 4.928 |
| | 5 MHz, 64QAM | | | 4.4988 | 4.919 |
| | 10 MHz, QPSK | 50/0 | | 8.9780 | 10.130 |
| | 10 MHz, 16QAM | | | 8.9893 | 10.160 |
| | 10 MHz, 64QAM | | | 8.9837 | 10.020 |

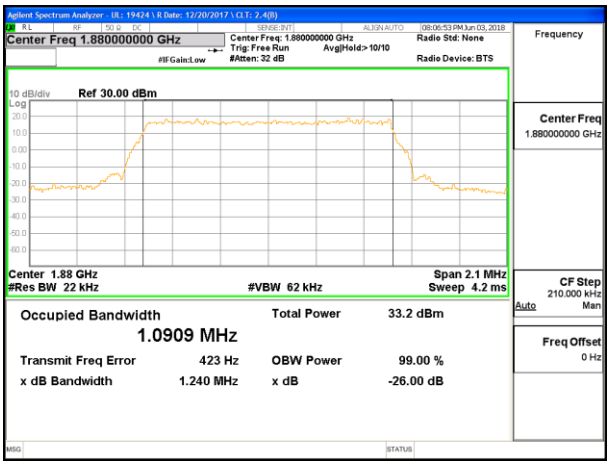
**LTE BAND 41**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 41 | 5 MHz, QPSK | 25/0 | 2593.0 | 4.4941 | 5.136 |
| | 5 MHz, 16QAM | | | 4.5070 | 4.845 |
| | 5 MHz, 64QAM | | | 4.5015 | 5.321 |
| | 10 MHz, QPSK | 50/0 | | 8.9853 | 10.356 |
| | 10 MHz, 16QAM | | | 8.9782 | 10.088 |
| | 10 MHz, 64QAM | | | 9.0025 | 10.810 |
| | 15 MHz, QPSK | 75/0 | | 13.3940 | 14.701 |
| | 15 MHz, 16QAM | | | 13.4932 | 15.108 |
| | 15 MHz, 64QAM | | | 13.4980 | 16.640 |
| | 20 MHz, QPSK | 100/0 | | 17.9097 | 19.478 |
| | 20 MHz, 16QAM | | | 17.9422 | 19.046 |
| | 20 MHz, 64QAM | | | 17.9540 | 21.570 |

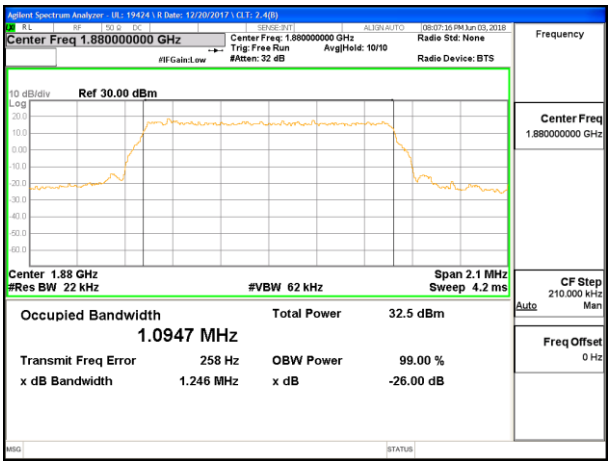
**LTE BAND 66**

| Band | Mode | RB Allocation/RB Offset | f(MHz) | 99% BW (MHz) | -26dB BW (MHz) |
|---|---|---|---|---|---|
| LTE BAND 66 | 1.4MHz, QPSK | 6/0 | 1745.0 | 1.0898 | 1.240 |
| | 1.4MHz,16QAM | | | 1.0872 | 1.246 |
| | 1.4MHz 64QAM | | | 1.0906 | 1.244 |
| | 3MHz, QPSK | 15/0 | | 2.6904 | 2.961 |
| | 3MHz, 16QAM | | | 2.6840 | 2.984 |
| | 3MHz 64QAM | | | 2.7093 | 2.987 |
| | 5MHz, QPSK | 25/0 | | 4.5061 | 4.937 |
| | 5MHz, 16QAM | | | 4.4954 | 4.868 |
| | 5MHz 64QAM | | | 4.4936 | 4.920 |
| | 10MHz, QPSK | 50/0 | | 8.9930 | 10.316 |
| | 10MHz, 16QAM | | | 8.9986 | 10.389 |
| | 10MHz 64QAM | | | 8.9843 | 10.13 |
| | 15MHz, QPSK | 75/0 | | 13.4510 | 15.375 |
| | 15MHz, 16QAM | | | 13.4360 | 14.903 |
| | 15MHz 64QAM | | | 13.493 | 15.490 |
| | 20MHz, QPSK | 100/0 | | 17.9082 | 19.543 |
| | 20MHz, 16QAM | | | 17.9552 | 19.555 |
| | 20MHz 64QAM | | | 17.9490 | 19.960 |

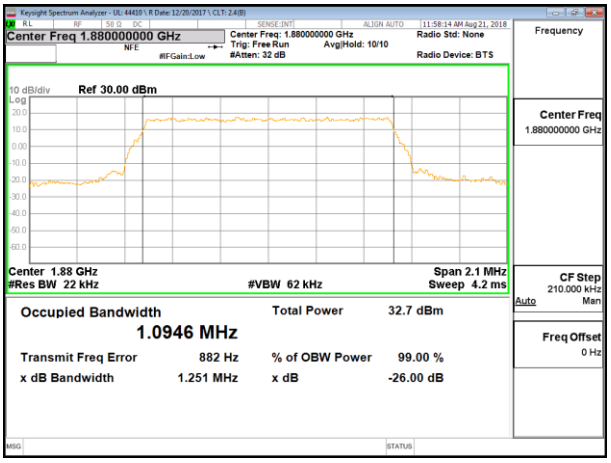
## 8.1.1. LTE BAND 2



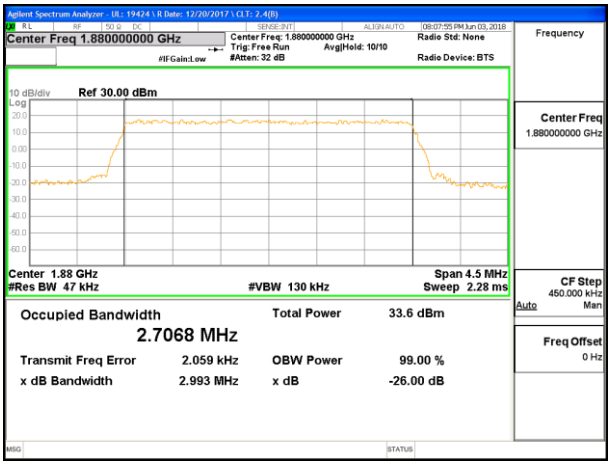

LTE B2 1.4MHz QPSK Middle Channel RB6-0



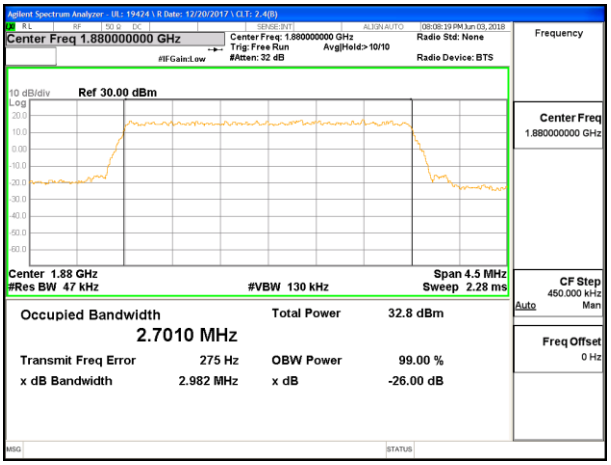

LTE B2 1.4MHz 16QAM Middle Channel RB6-0



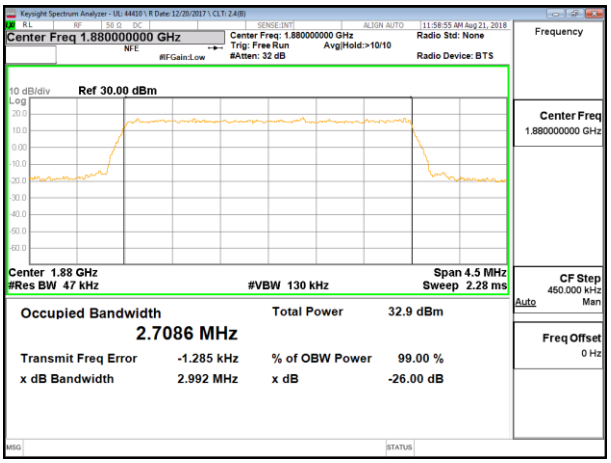

LTE B2 1.4MHz 64QAM Middle Channel RB6-0



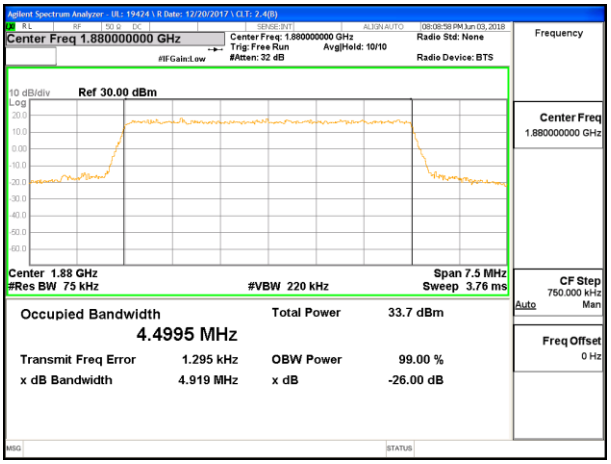

LTE B2 3MHz QPSK Middle Channel RB15-0



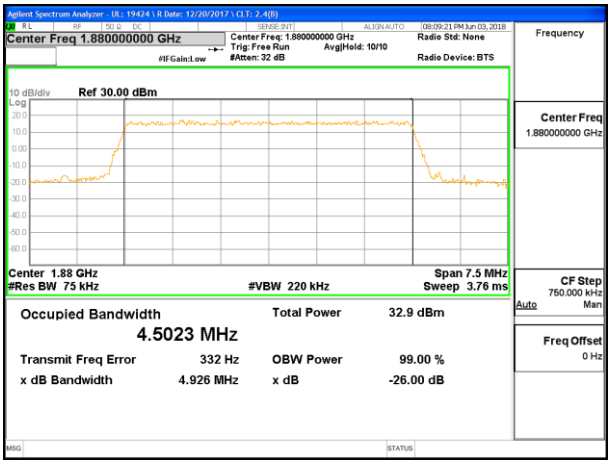

LTE B2 3MHz 16QAM Middle Channel RB15-0



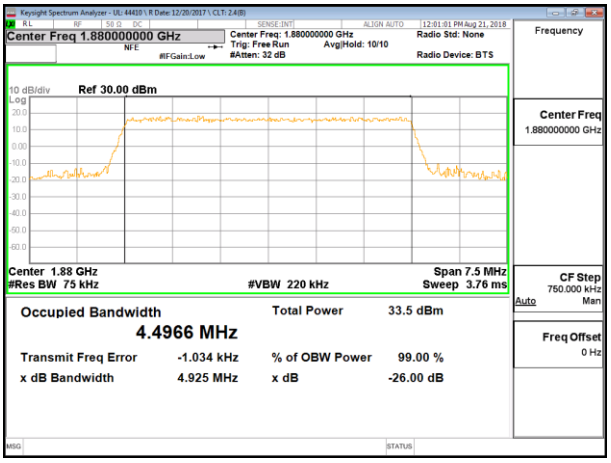

LTE B2 3MHz 64QAM Middle Channel RB15-0



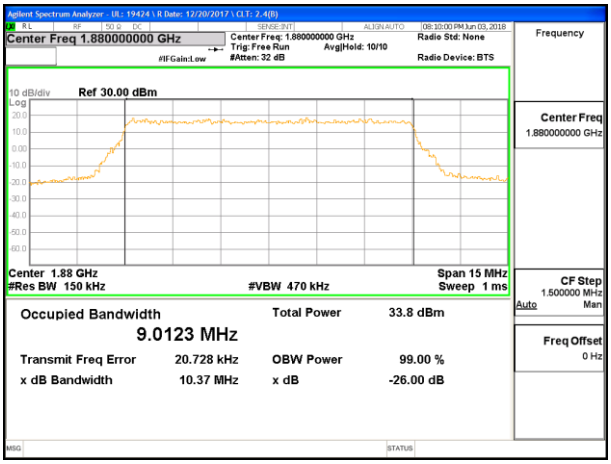

LTE B2 5MHz QPSK Middle Channel RB50-0



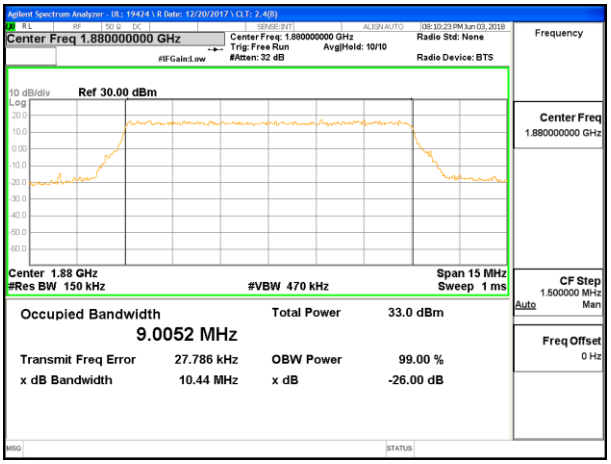

LTE B2 5MHz 16QAM Middle Channel RB50-0



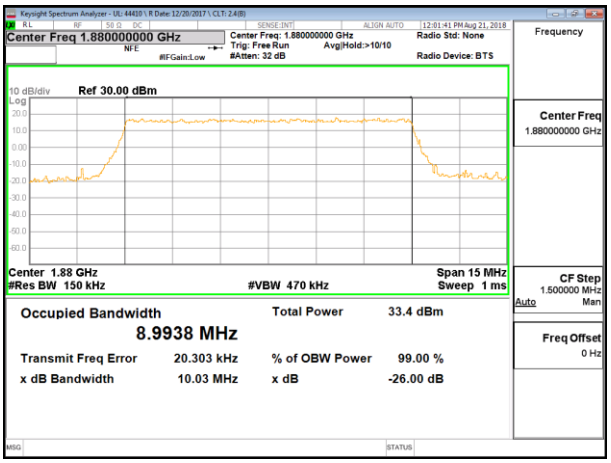

LTE B2 5MHz 64QAM Middle Channel RB50-0



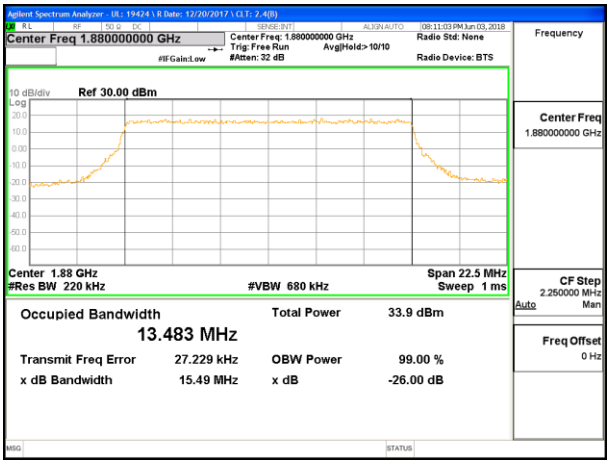

LTE B2 10MHz QPSK Middle Channel RB75-0



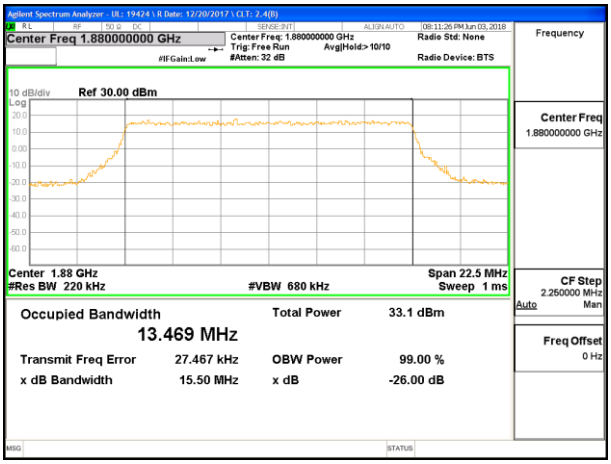

LTE B2 10MHz 16QAM Middle Channel RB75-0



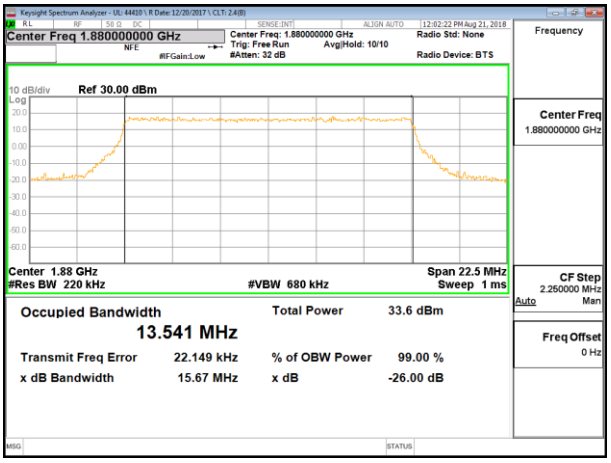

LTE B2 10MHz 64QAM Middle Channel RB75-0



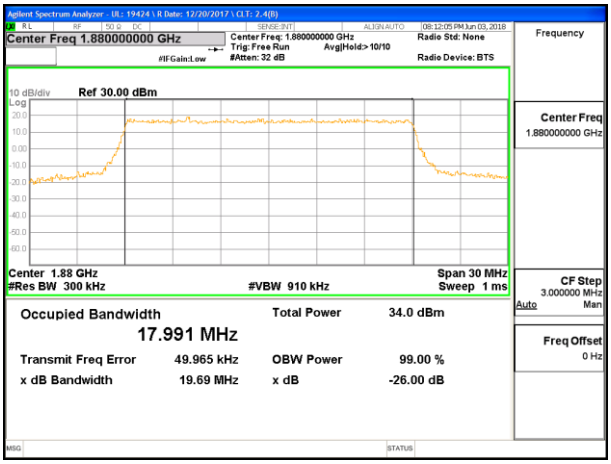

LTE B2 15MHz QPSK Middle Channel RB75-0



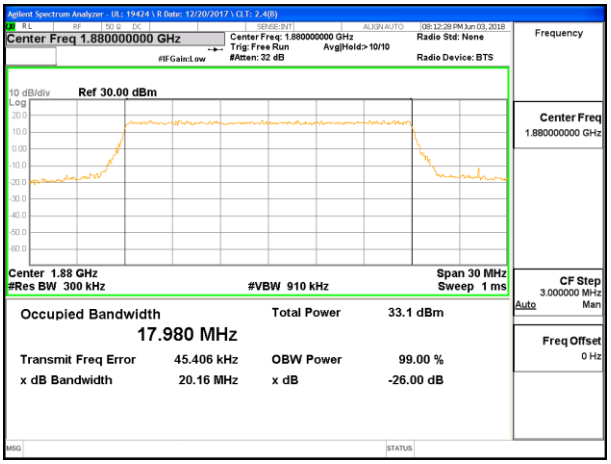

LTE B2 15MHz 16QAM Middle Channel RB75-0



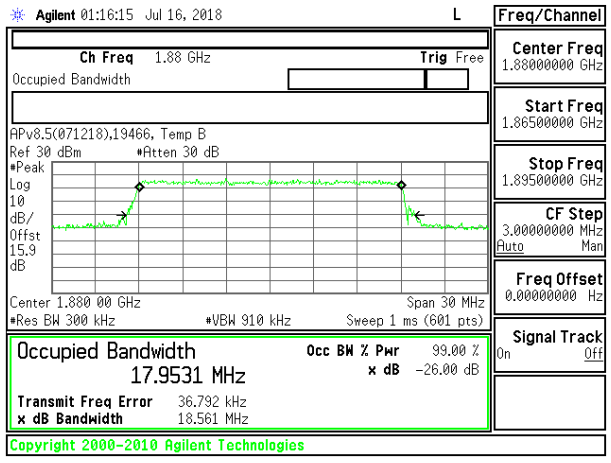

LTE B2 15MHz 64QAM Middle Channel RB75-0




LTE B2 20MHz QPSK Middle Channel RB100-0

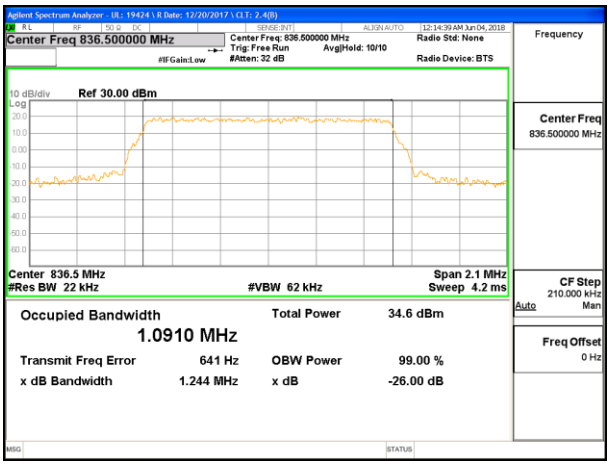



LTE B2 20MHz 16QAM Middle Channel RB100-0

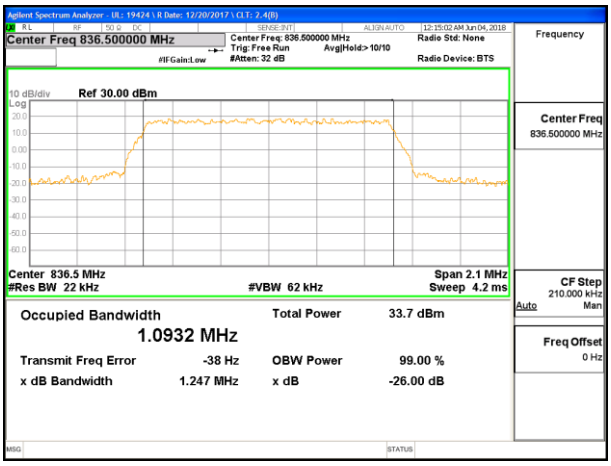



LTE B2 20MHz 64QAM Middle Channel RB100-0

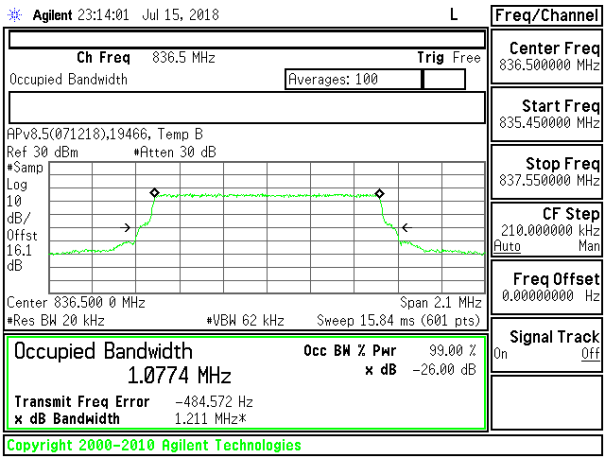
## 8.1.2. LTE BAND 5



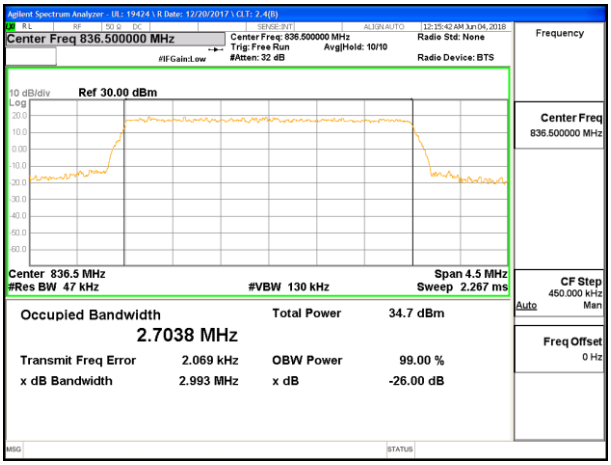

LTE B5 1.4MHz QPSK Middle Channel RB6-0



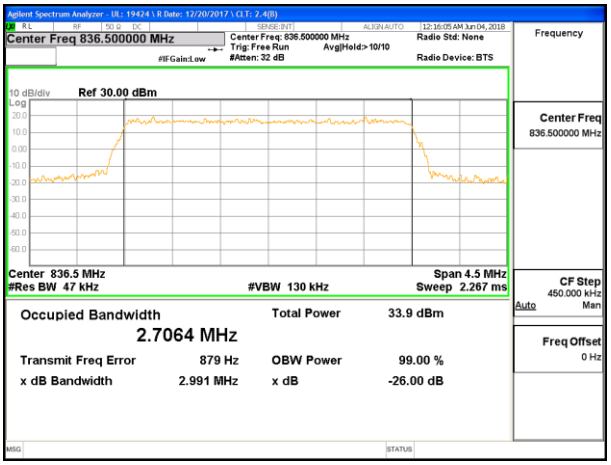

LTE B5 1.4MHz 16QAM Middle Channel RB6-0



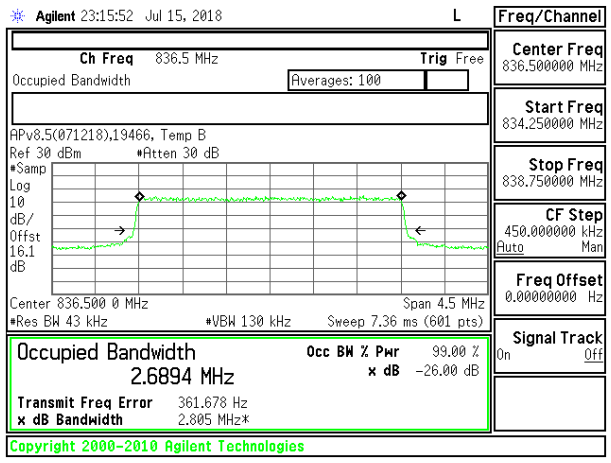

LTE B5 1.4MHz 64QAM Middle Channel RB6-0



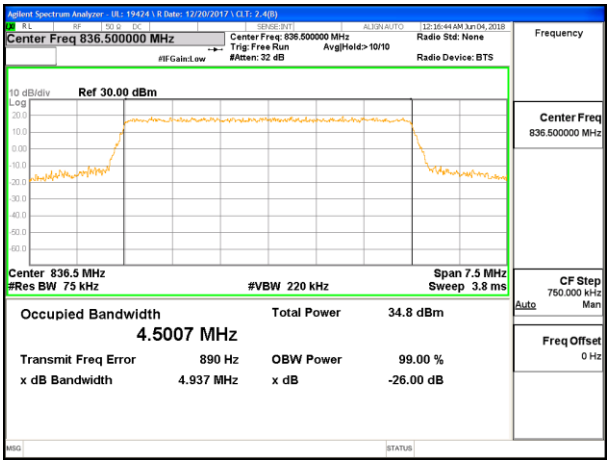

LTE B5 3MHz QPSK Middle Channel RB15-0



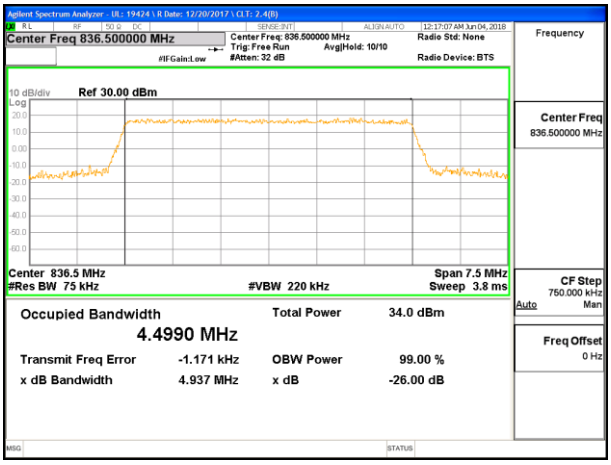

LTE B5 3MHz 16QAM Middle Channel RB15-0



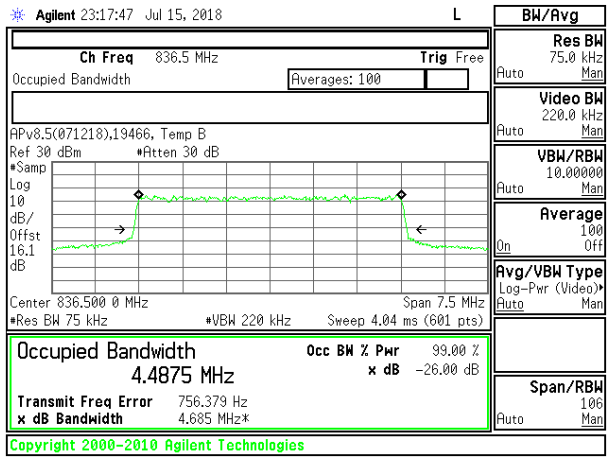

LTE B5 3MHz 64QAM Middle Channel RB15-0



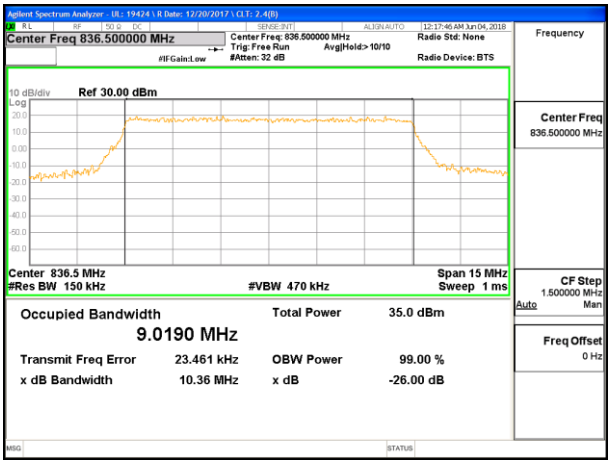

LTE B5 5MHz QPSK Middle Channel RB25-0



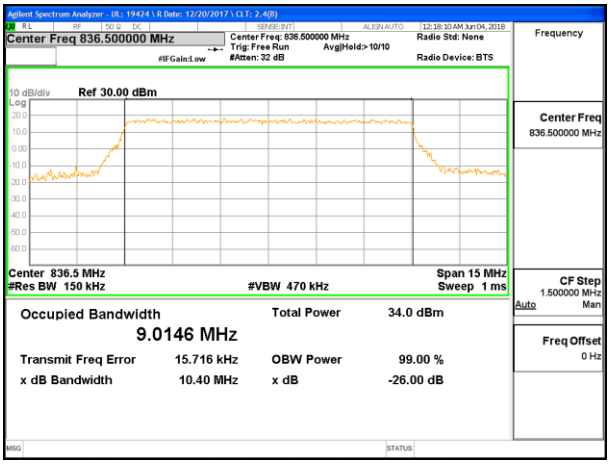

LTE B5 5MHz 16QAM Middle Channel RB25-0



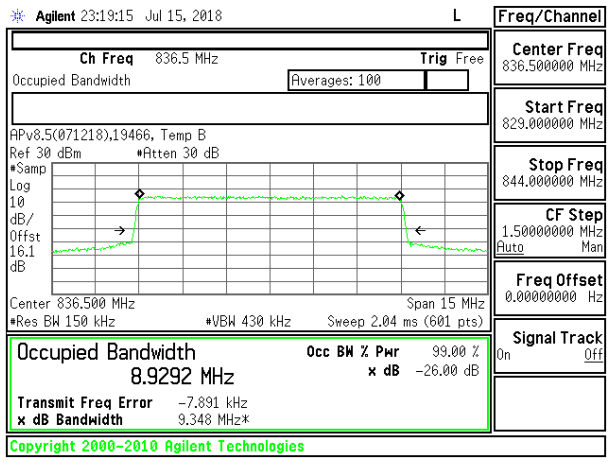

LTE B5 5MHz 64QAM Middle Channel RB25-0




LTE B5 10MHz QPSK Middle Channel RB50-0

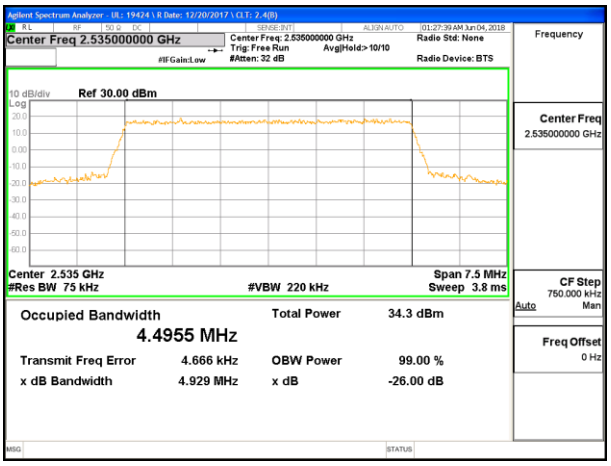



LTE B5 10MHz 16QAM Middle Channel RB50-0

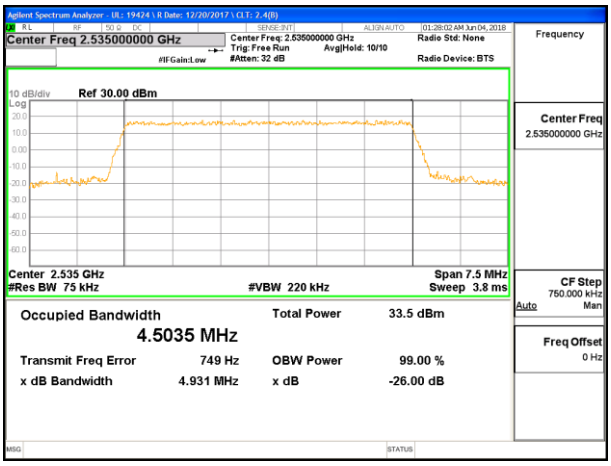



LTE B5 10MHz 64QAM Middle Channel RB50-0

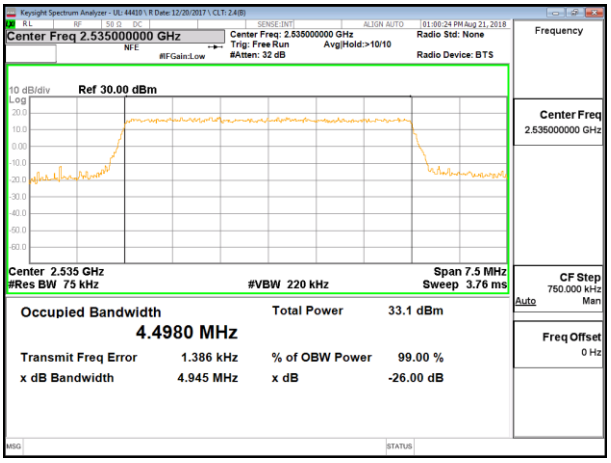
## 8.1.3. LTE BAND 7



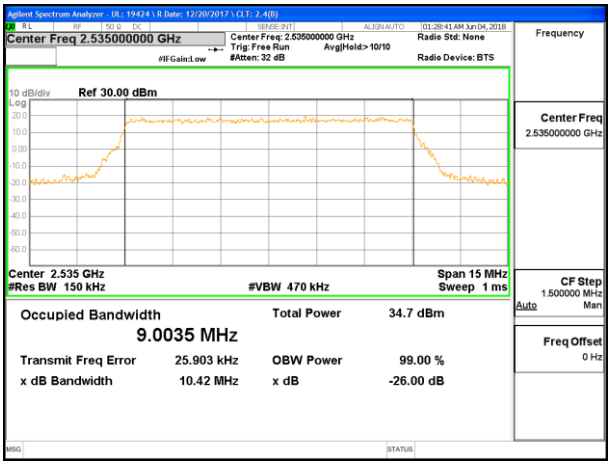

LTE B7 5MHz QPSK Middle Channel RB25-0



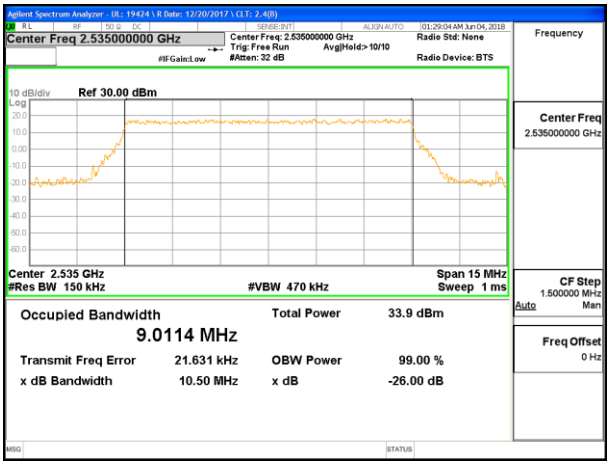

LTE B7 5MHz 16QAM Middle Channel RB25-0



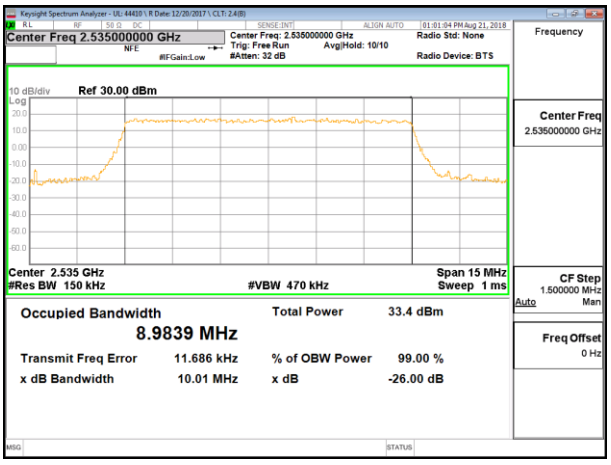

LTE B7 5MHz 64QAM Middle Channel RB25-0



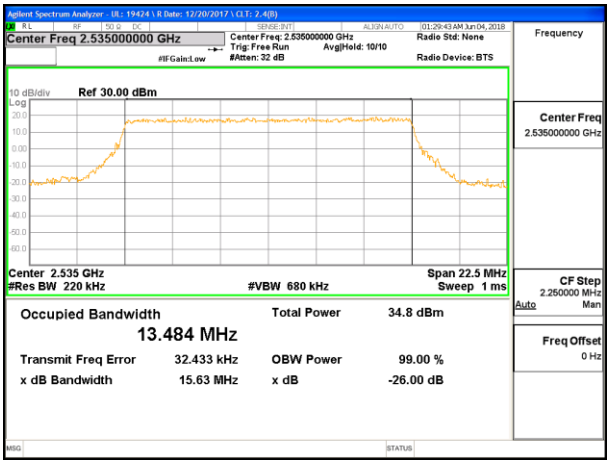

LTE B7 10MHz QPSK Middle Channel RB50-0



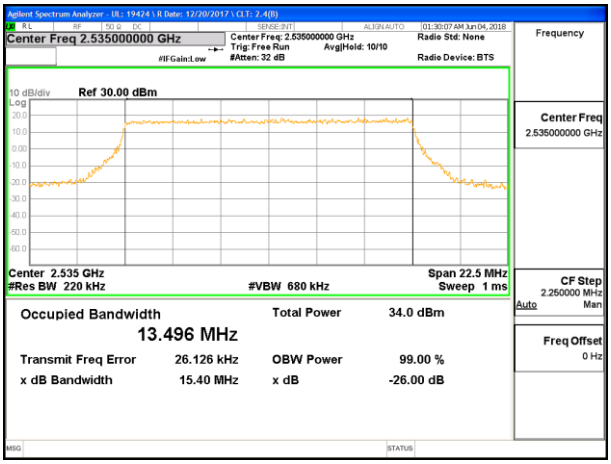

LTE B7 10MHz 16QAM Middle Channel RB50-0



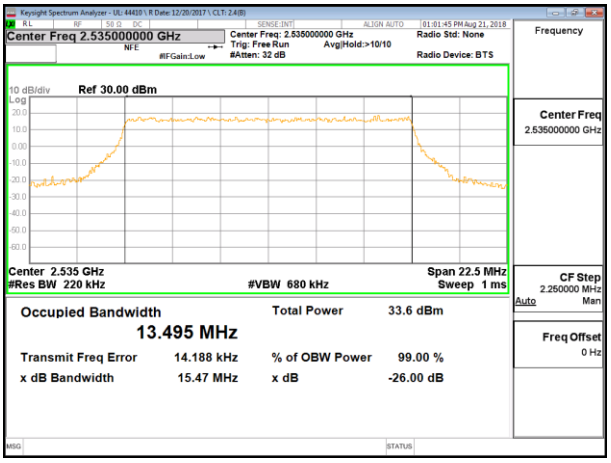

LTE B7 10MHz 64QAM Middle Channel RB50-0



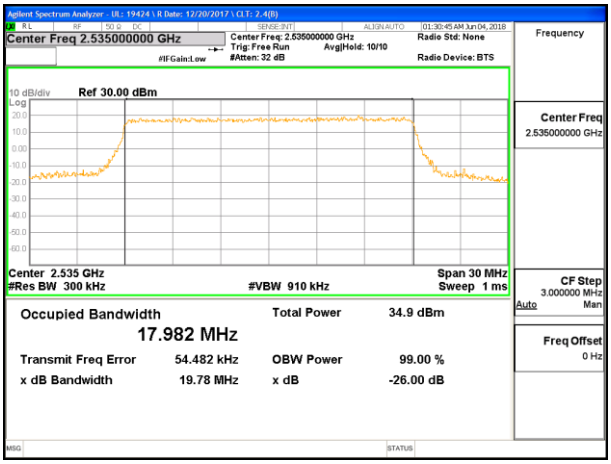

LTE B7 15MHz QPSK Middle Channel RB75-0



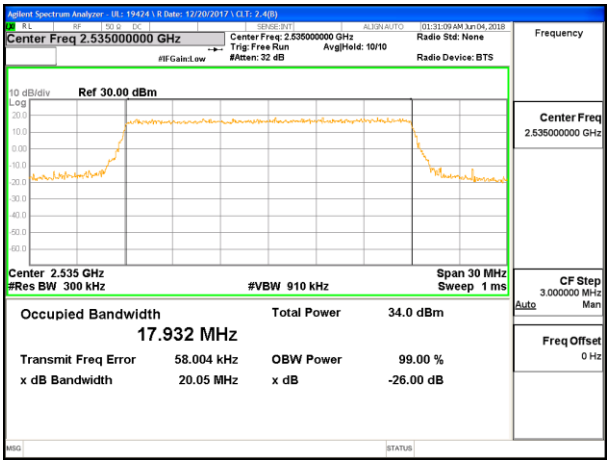

LTE B7 15MHz 16QAM Middle Channel RB75-0



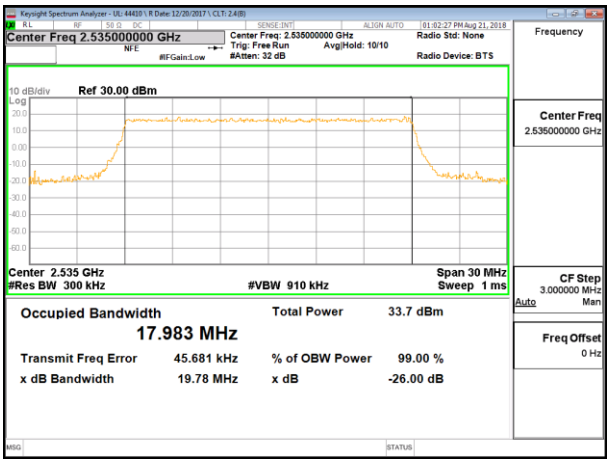

LTE B7 15MHz 64QAM Middle Channel RB75-0




LTE B7 20MHz QPSK Middle Channel RB100-0

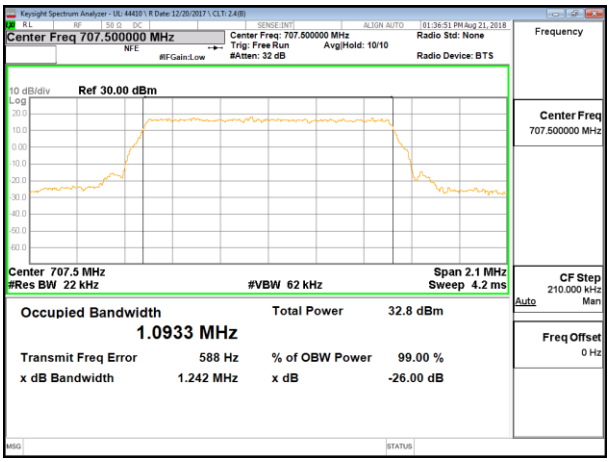



LTE B7 20MHz 16QAM Middle Channel RB100-0

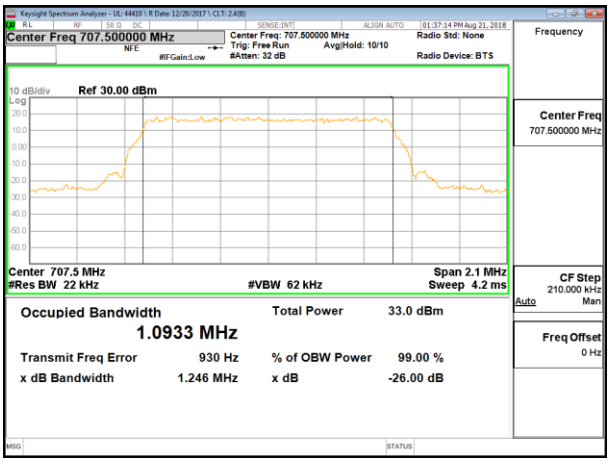



LTE B7 20MHz 64QAM Middle Channel RB100-0

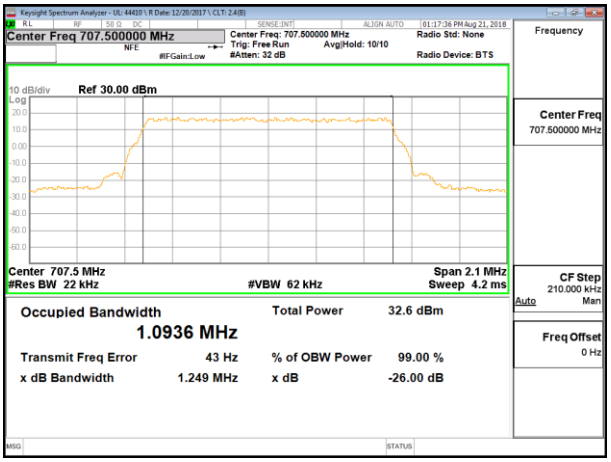
## 8.1.4. LTE BAND 12



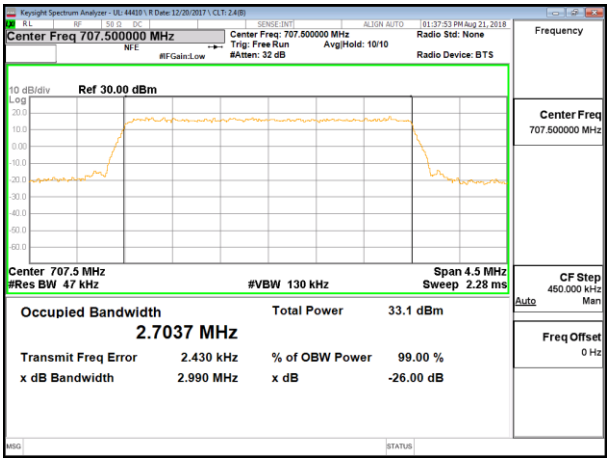

LTE B12 1.4MHz QPSK Middle Channel RB6-0



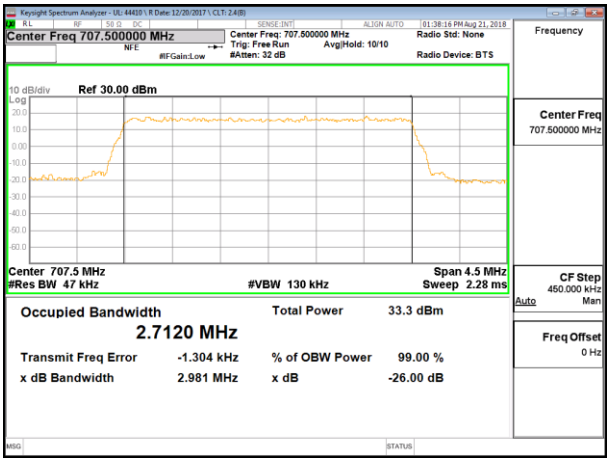

LTE B12 1.4MHz 16QAM Middle Channel RB6-0



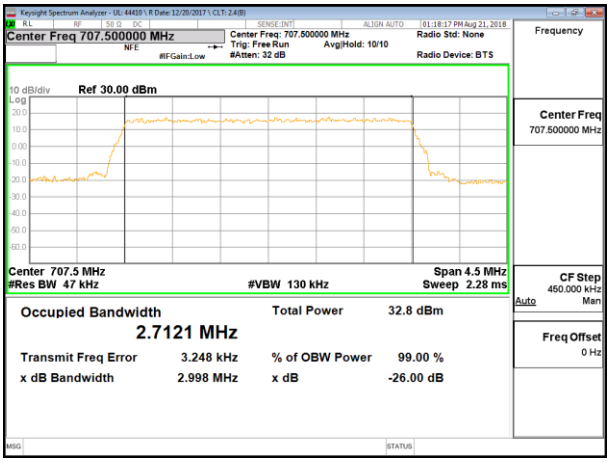

LTE B12 1.4MHz 64QAM Middle Channel RB6-0



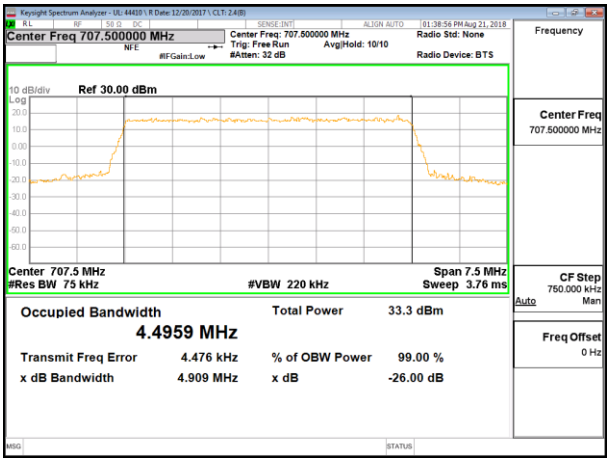

LTE B12 3MHz QPSK Middle Channel RB15-0



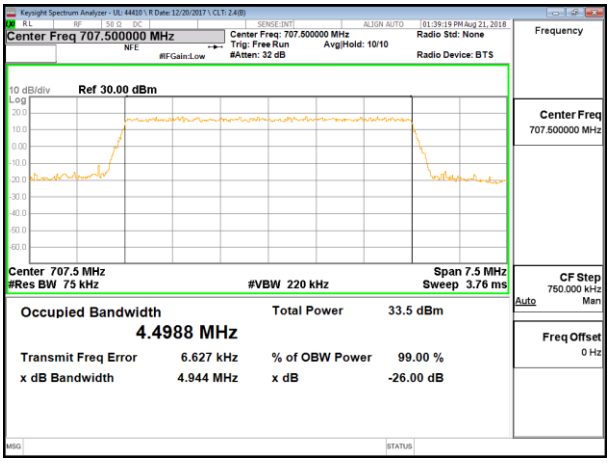

LTE B12 3MHz 16QAM Middle Channel RB15-0



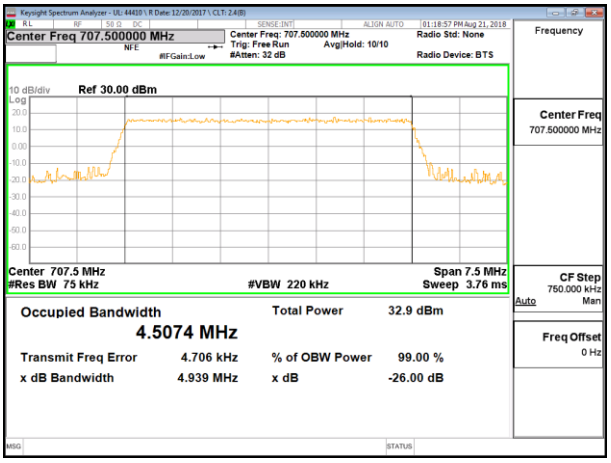

LTE B12 3MHz 64QAM Middle Channel RB15-0



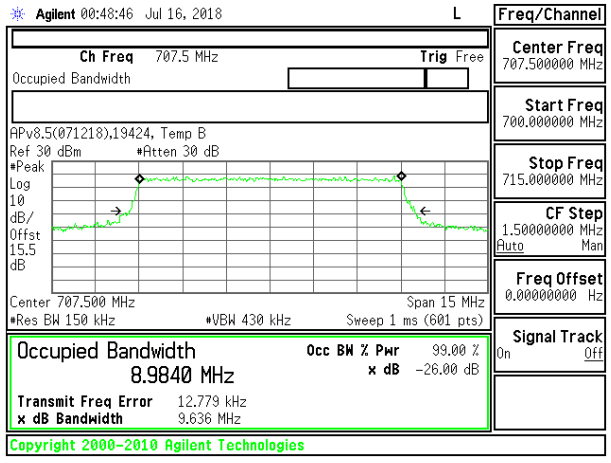

LTE B12 5MHz QPSK Middle Channel RB25-0



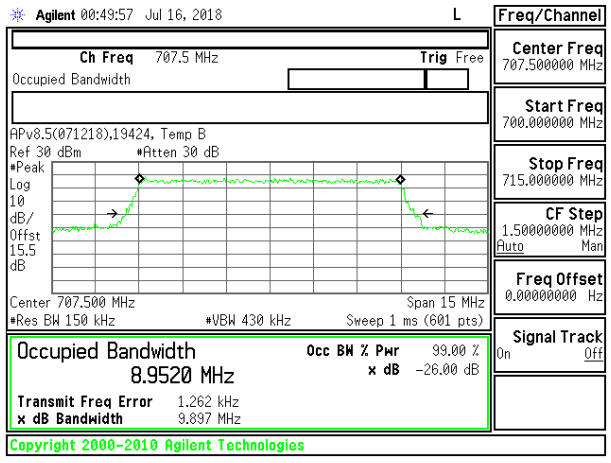

LTE B12 5MHz 16QAM Middle Channel RB25-0



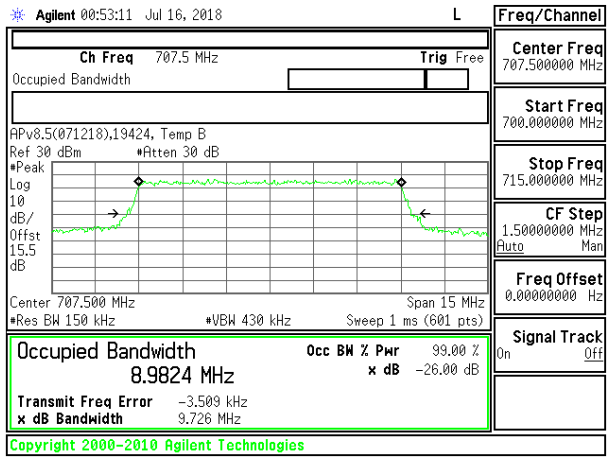

LTE B12 5MHz 64QAM Middle Channel RB25-0




LTE B12 10MHz QPSK Middle Channel RB50-0

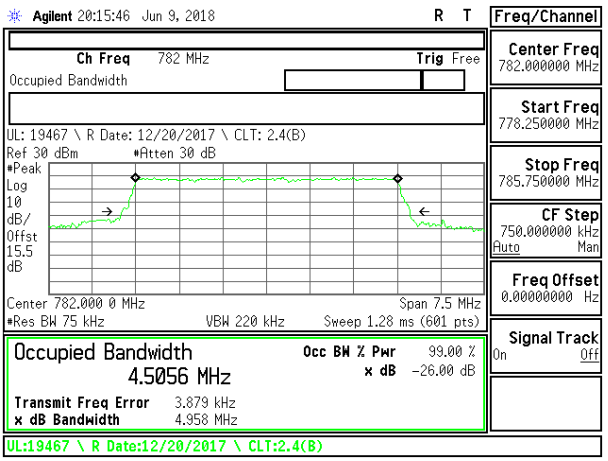



LTE B12 10MHz 16QAM Middle Channel RB50-0

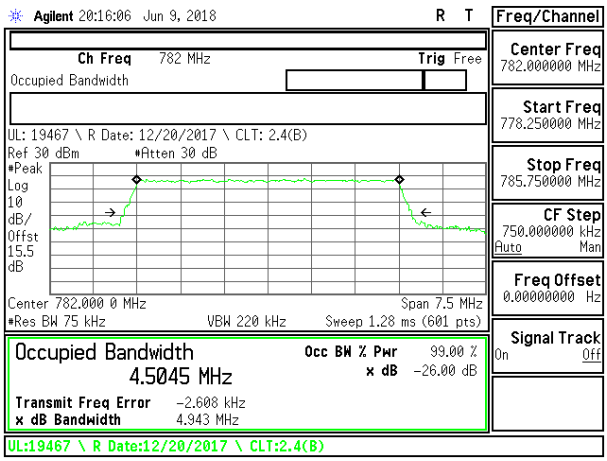



LTE B12 10MHz 64QAM Middle Channel RB50-0

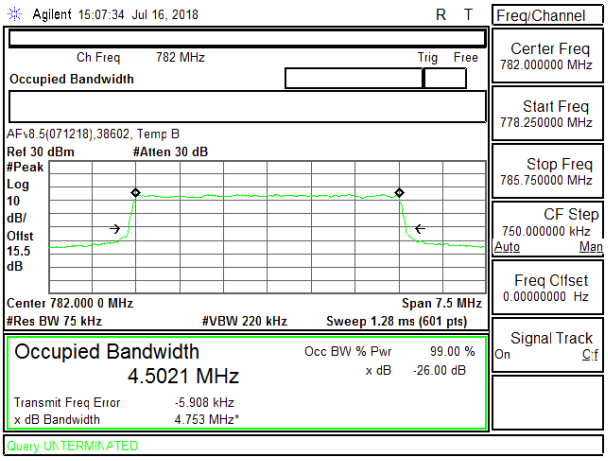
## 8.1.5. LTE BAND 13



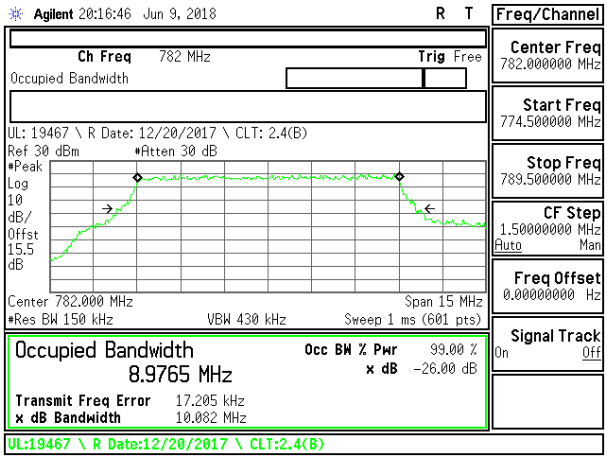

LTE B13 5MHz QPSK Middle Channel RB25-0



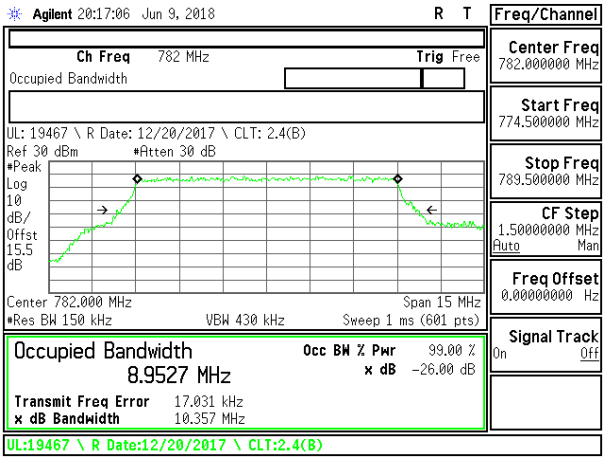

LTE B13 5MHz 16QAM Middle Channel RB25-0



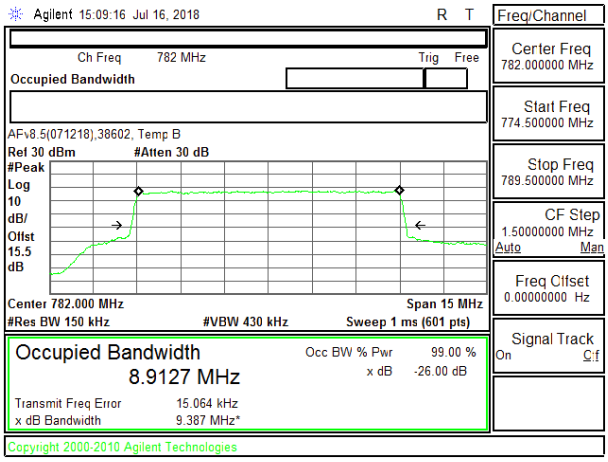

LTE B13 5MHz 64QAM Middle Channel RB25-0




LTE B13 10MHz QPSK Middle Channel RB50-0

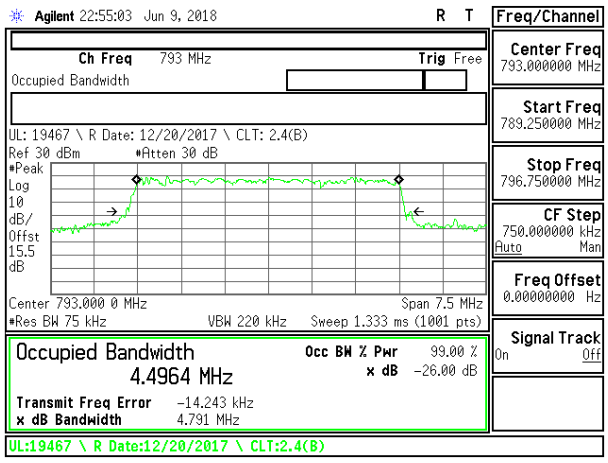



LTE B13 10MHz 16QAM Middle Channel RB50-0

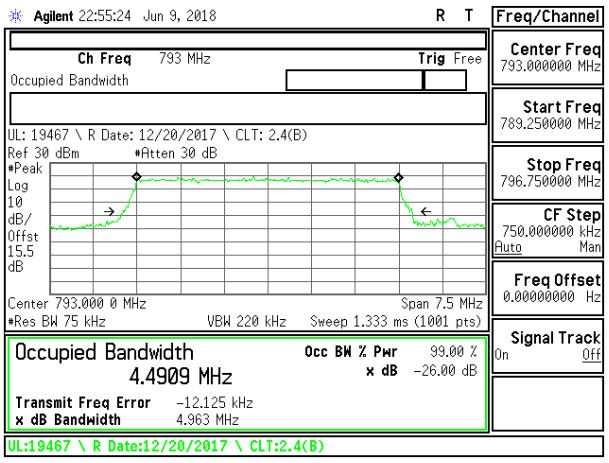



LTE B13 10MHz 64QAM Middle Channel RB50-0

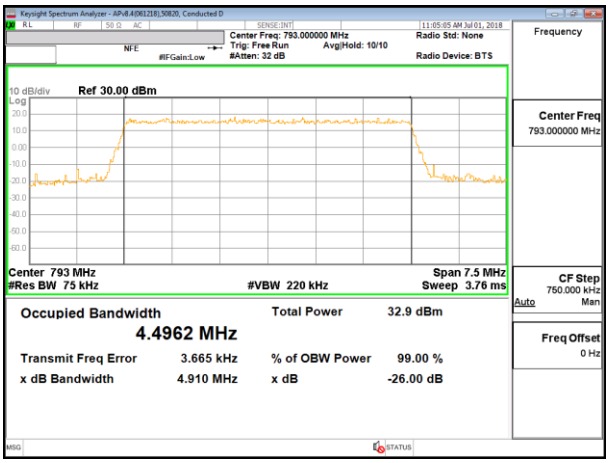
## 8.1.6. LTE BAND 14



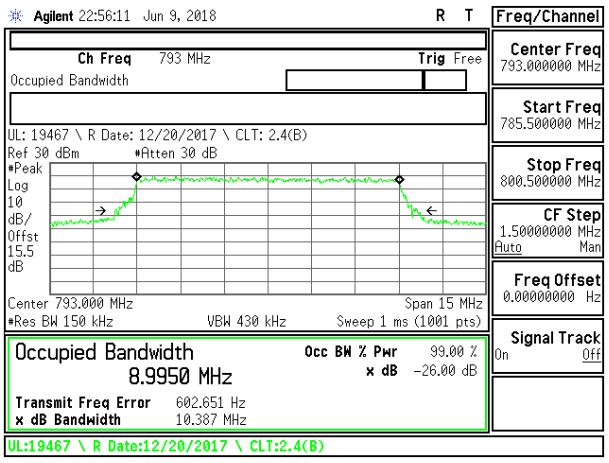

LTE B14 5MHz QPSK Middle Channel RB25-0



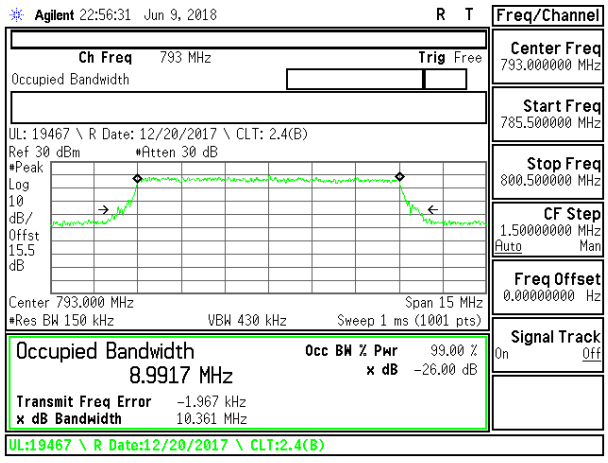

LTE B14 5MHz 16QAM Middle Channel RB25-0



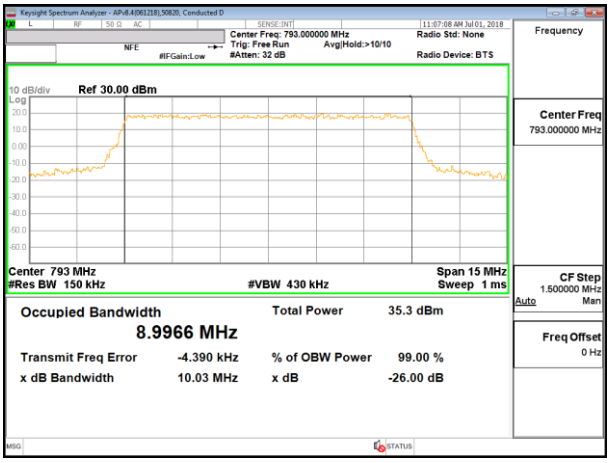

LTE B14 5MHz 64QAM Middle Channel RB25-0




LTE B14 10MHz QPSK Middle Channel RB50-0

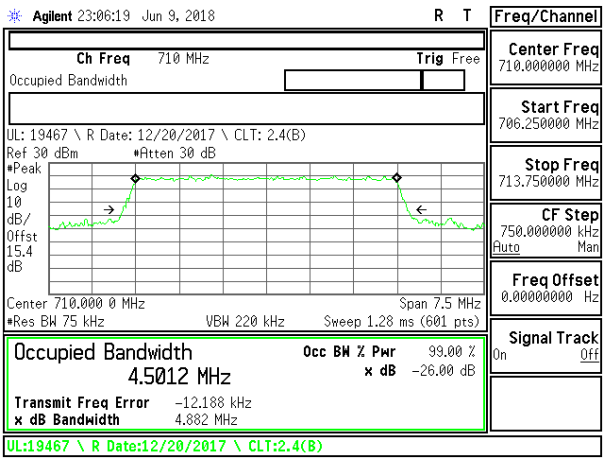



LTE B14 10MHz 16QAM Middle Channel RB50-0

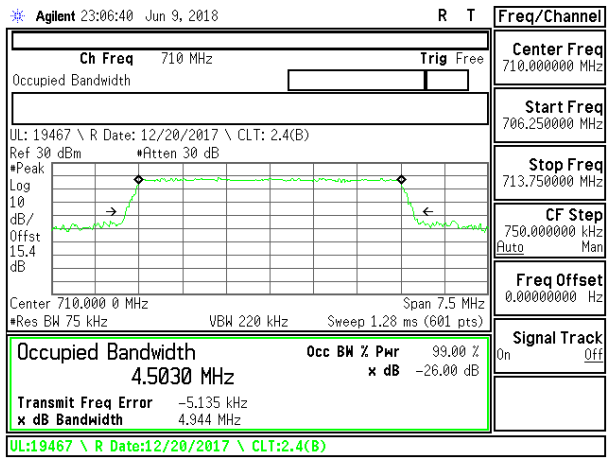



LTE B14 10MHz 64QAM Middle Channel RB50-0

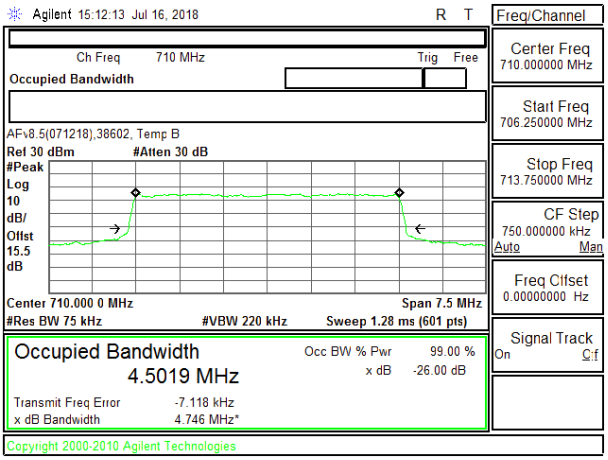
## 8.1.7. LTE BAND 17



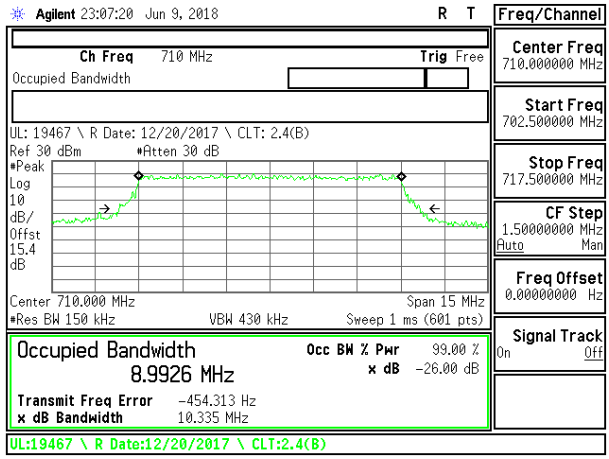

LTE B17 5MHz QPSK Middle Channel RB25-0



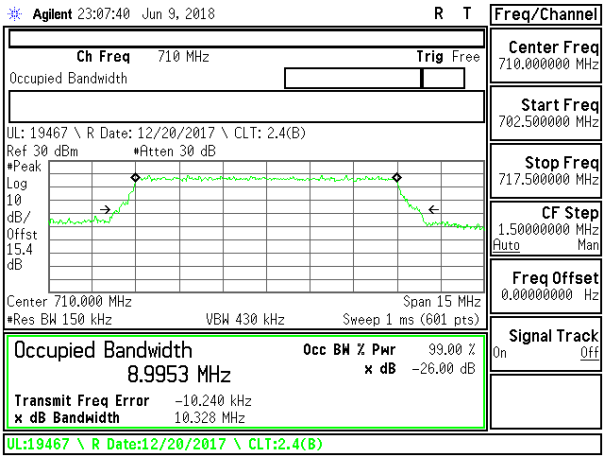

LTE B17 5MHz 16QAM Middle Channel RB25-0



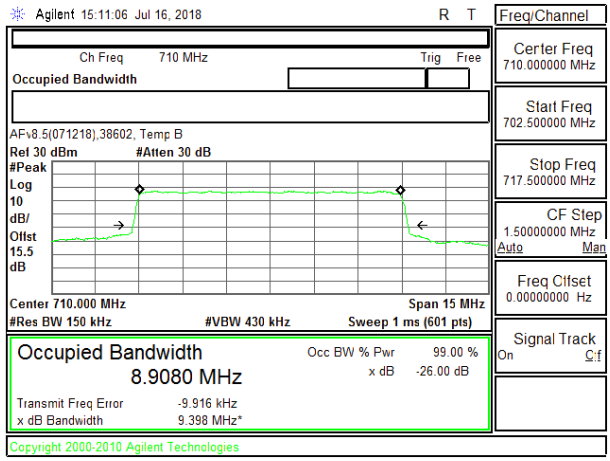

LTE B17 5MHz 64QAM Middle Channel RB25-0




LTE B17 10MHz QPSK Middle Channel RB50-0

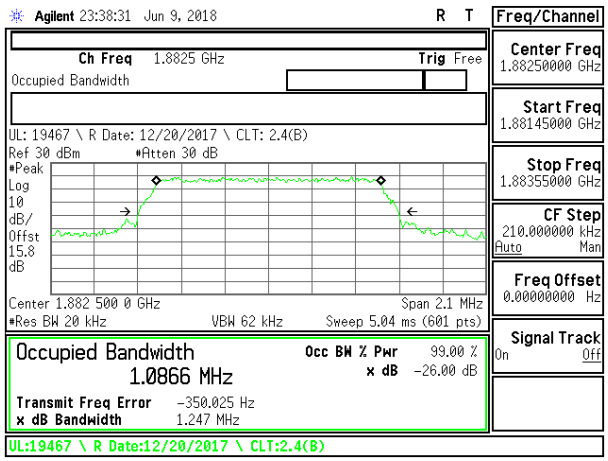



LTE B17 10MHz 16QAM Middle Channel RB50-0

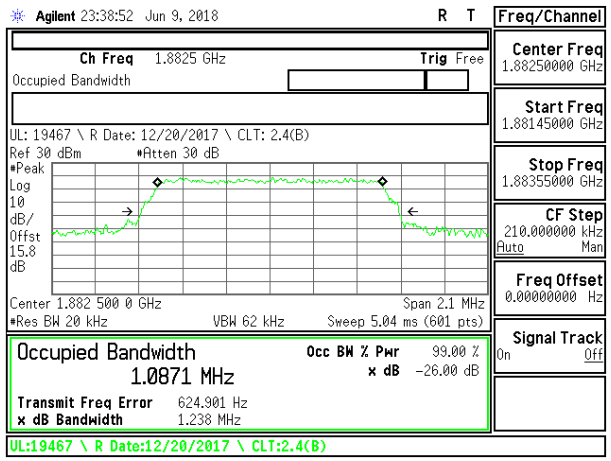



LTE B17 10MHz 64QAM Middle Channel RB50-0

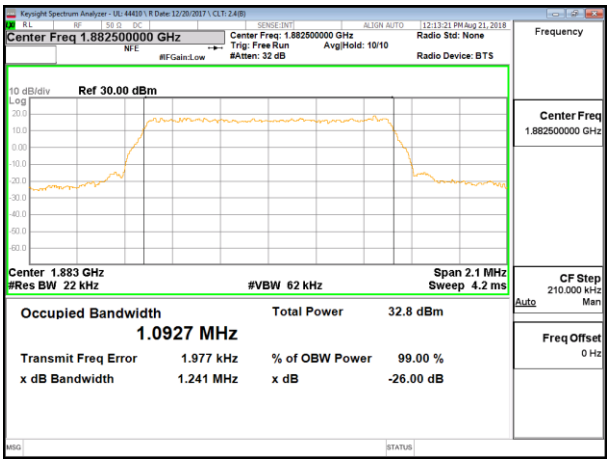
## 8.1.8. LTE BAND 25



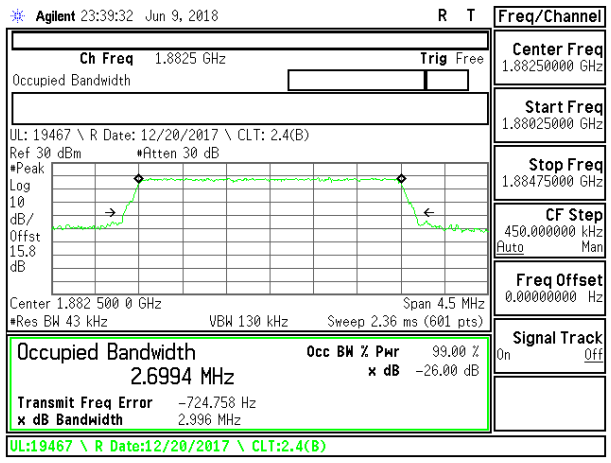

LTE B25 1.4MHz QPSK Middle Channel RB6-0



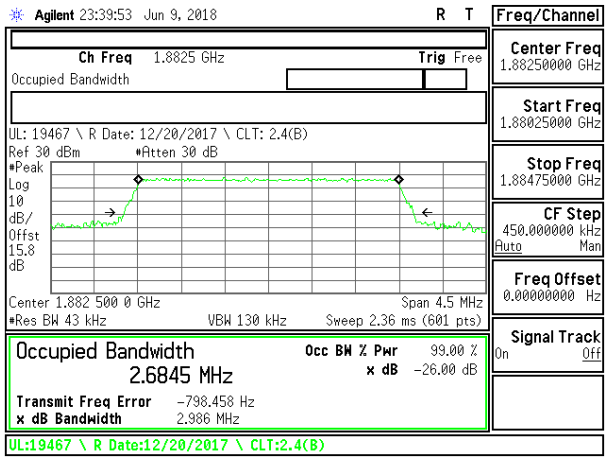

LTE B25 1.4MHz 16QAM Middle Channel RB6-0



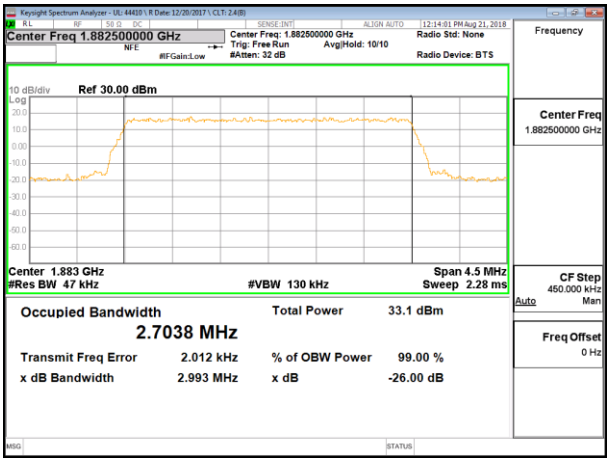

LTE B25 1.4MHz 64QAM Middle Channel RB6-0



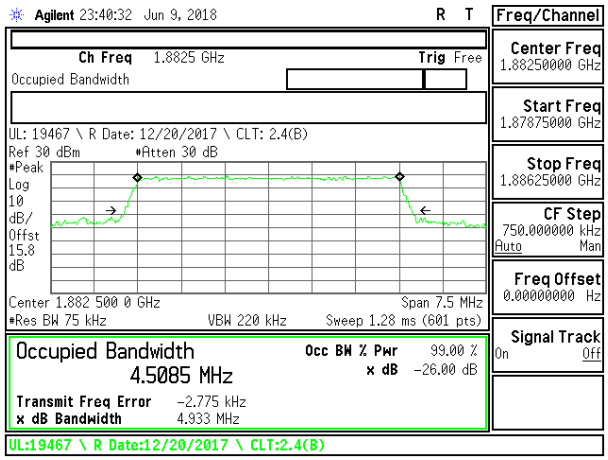

LTE B25 3MHz QPSK Middle Channel RB15-0



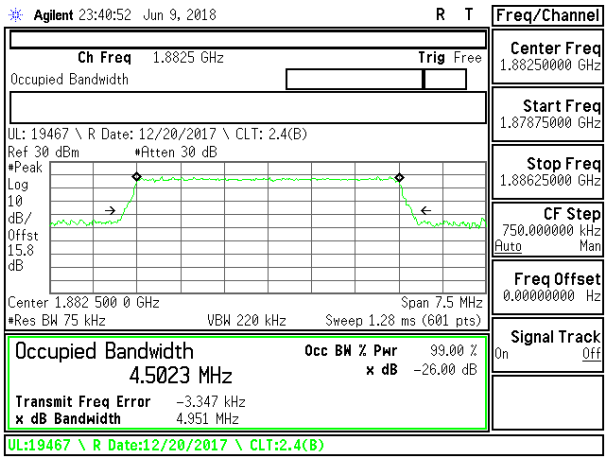

LTE B25 3MHz 16QAM Middle Channel RB15-0



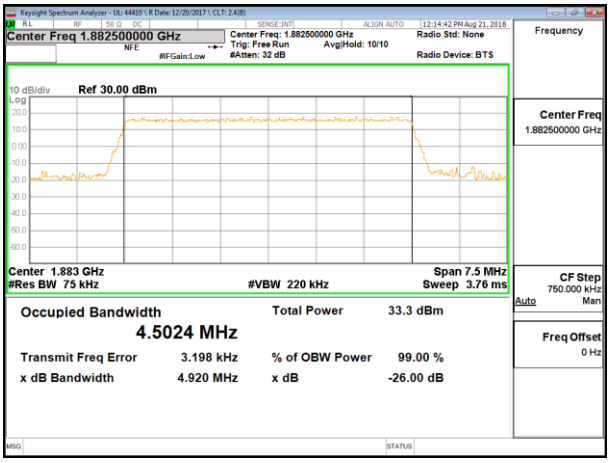

LTE B25 3MHz 64QAM Middle Channel RB15-0



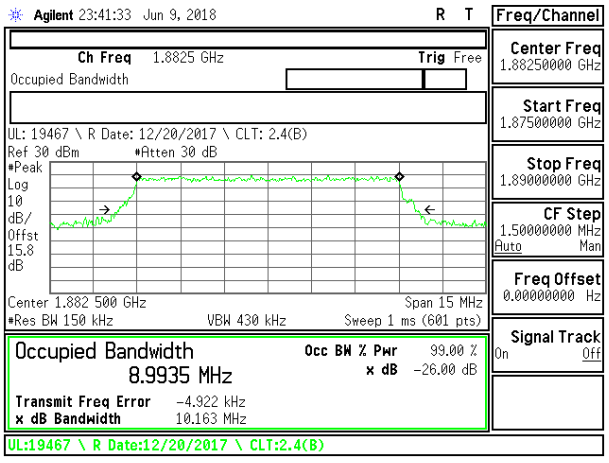

LTE B25 5MHz QPSK Middle Channel RB25-0



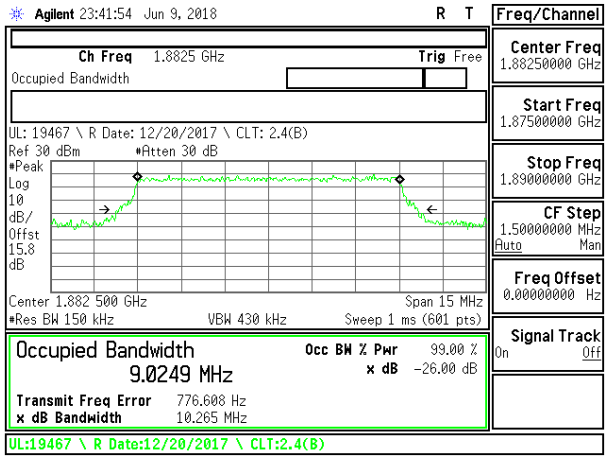

LTE B25 5MHz 16QAM Middle Channel RB25-0



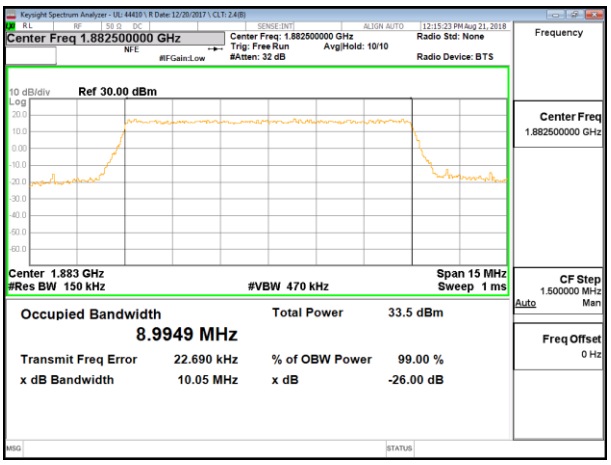

LTE B25 5MHz 64QAM Middle Channel RB25-0



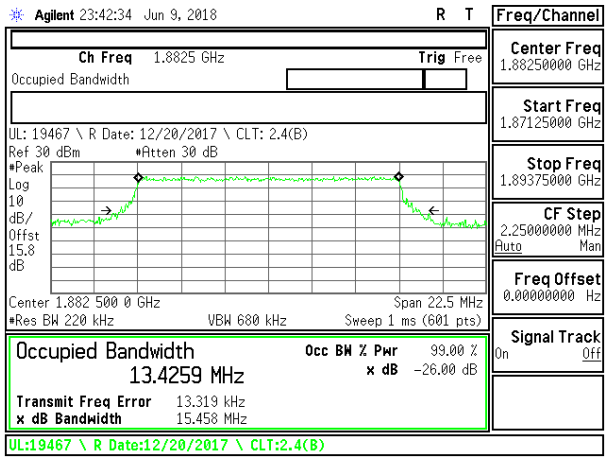

LTE B25 10MHz QPSK Middle Channel RB50-0



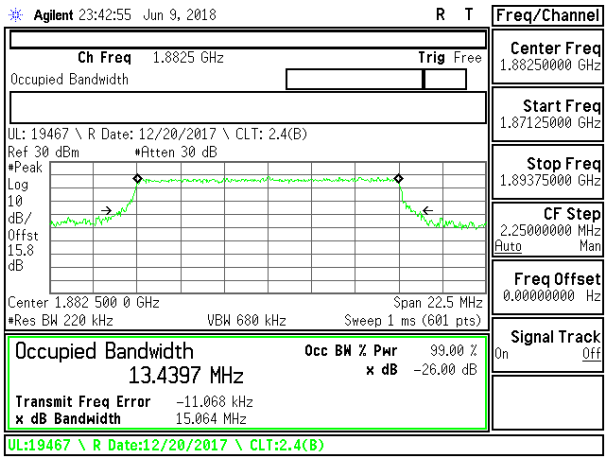

LTE B25 10MHz 16QAM Middle Channel RB50-0



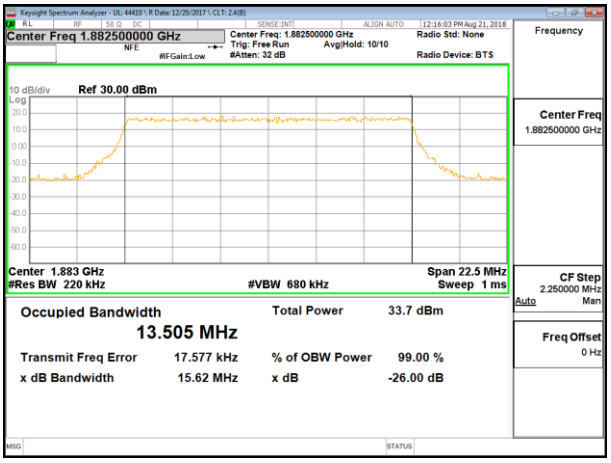

LTE B25 10MHz 64QAM Middle Channel RB50-0



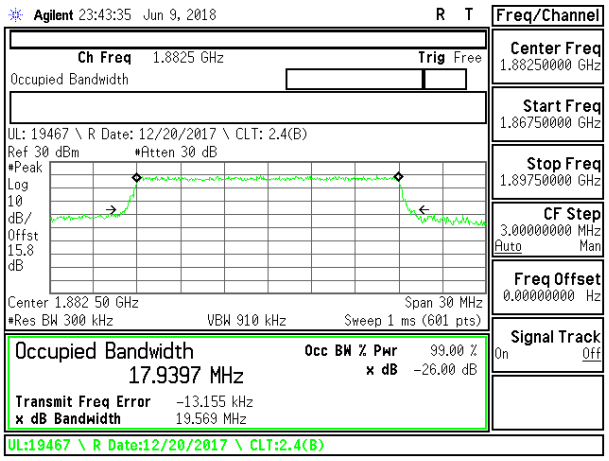

LTE B25 15MHz QPSK Middle Channel RB75-0



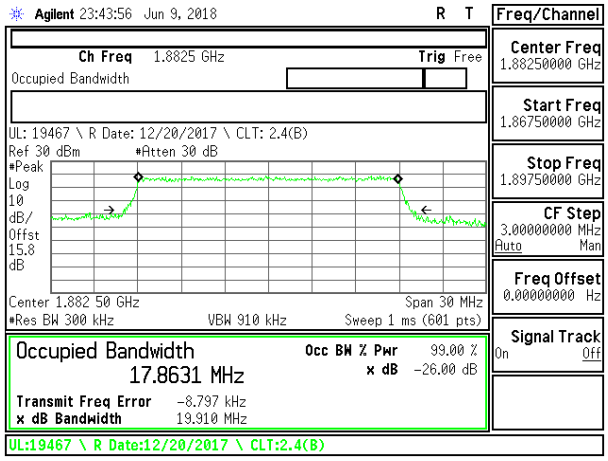

LTE B25 15MHz 16QAM Middle Channel RB75-0



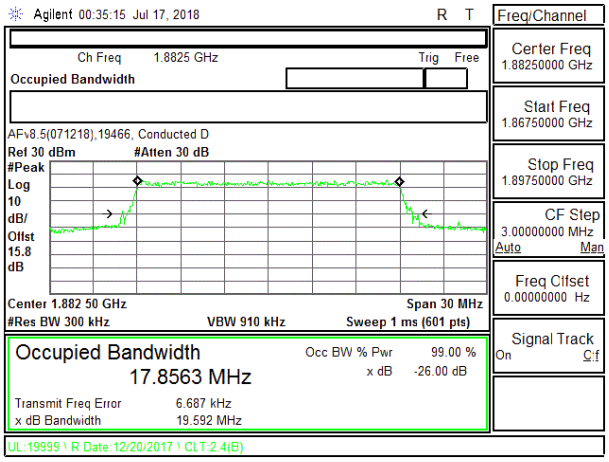

LTE B25 15MHz 64QAM Middle Channel RB75-0




LTE B25 20MHz QPSK Middle Channel RB100-0

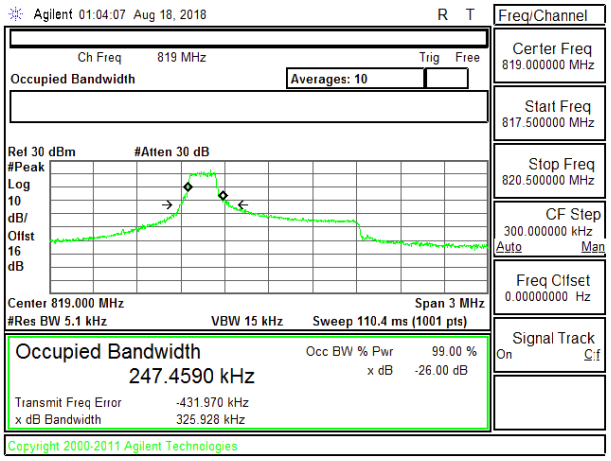



LTE B25 20MHz 16QAM Middle Channel RB100-0

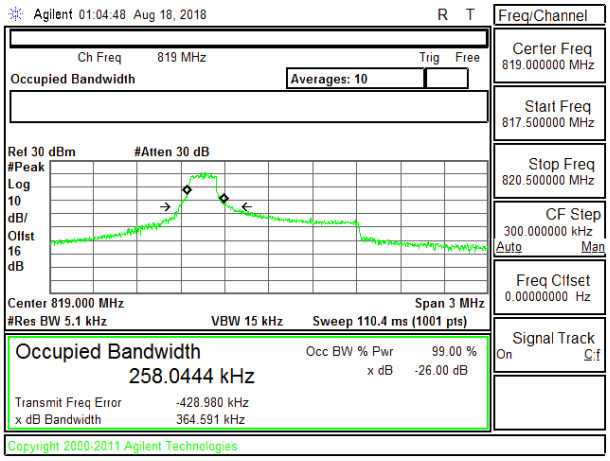



LTE B25 20MHz 64QAM Middle Channel RB100-0

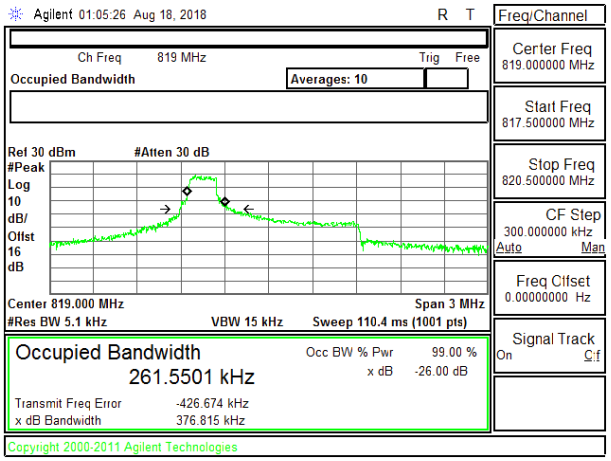
## 8.1.9. LTE BAND 26 (PART 90S)



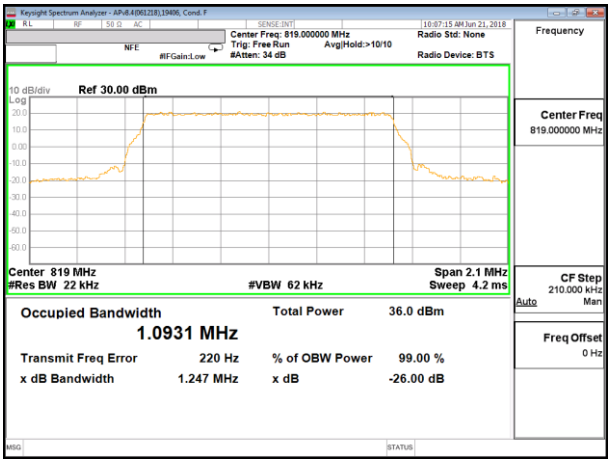

LTE B26 1.4MHz QPSK Middle Channel RB1-0, ID: 10646



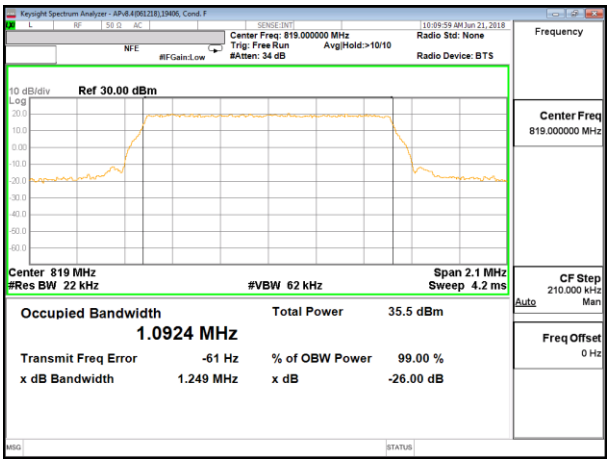

LTE B26 1.4MHz 16QAM Middle Channel RB1-0, ID: 10646



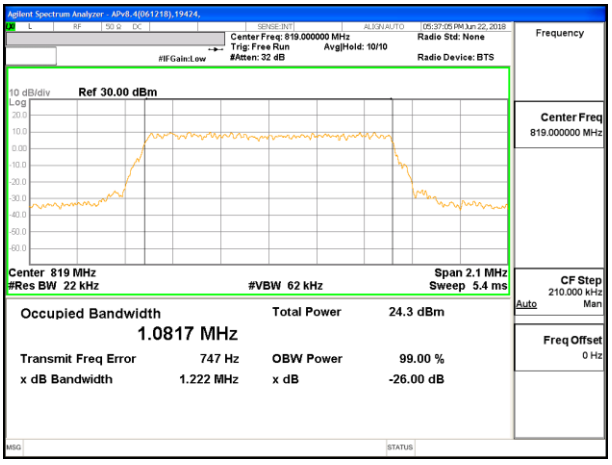

LTE B26 1.4MHz 64QAM Middle Channel RB1-0, ID: 10646



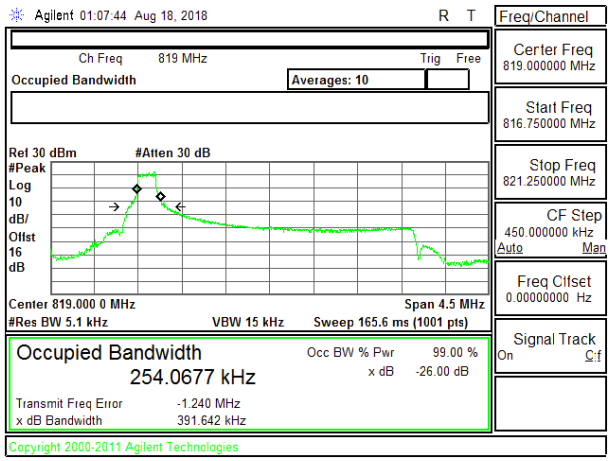

LTE B26 1.4MHz QPSK Middle Channel RB6-0



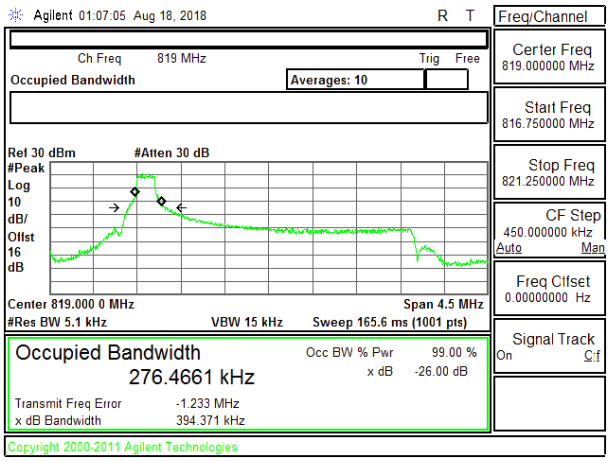

LTE B26 1.4MHz 16QAM Middle Channel RB6-0



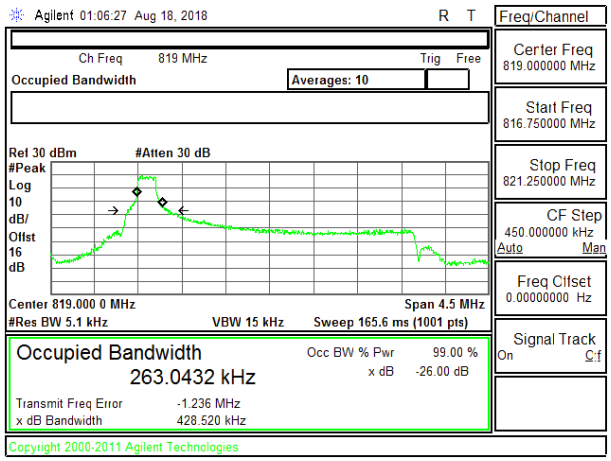

LTE B26 1.4MHz 64QAM Middle Channel RB6-0



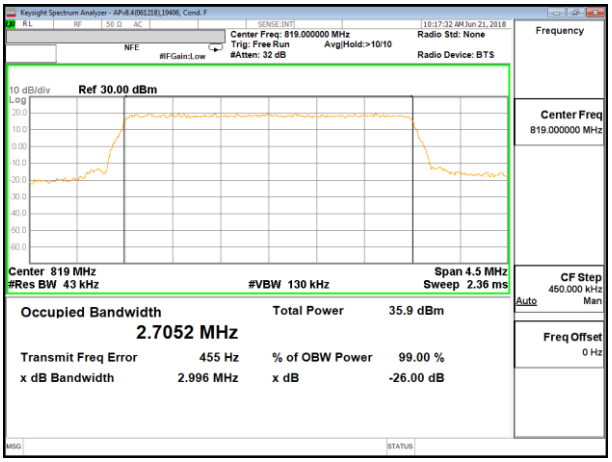

LTE B26 3MHz QPSK Middle Channel RB1-0, ID: 10646



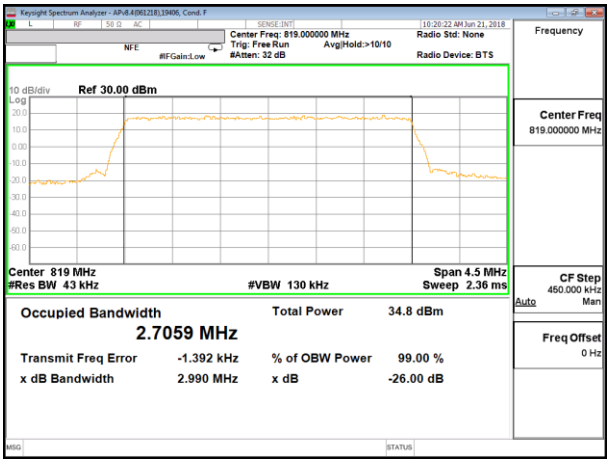

LTE B26 3MHz 16QAM Middle Channel RB1-0, ID: 10646



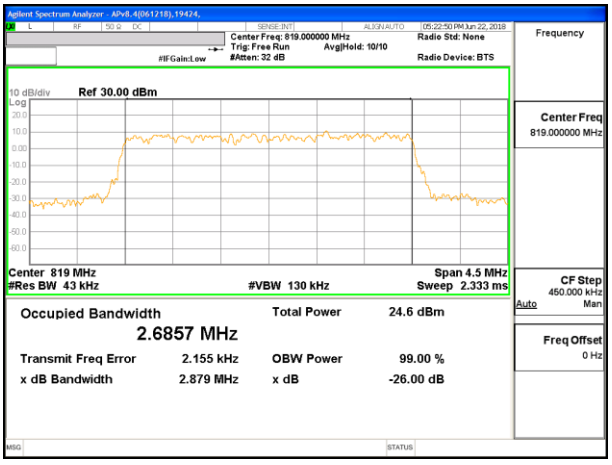

LTE B26 3MHz 64QAM Middle Channel RB1-0, ID: 10646



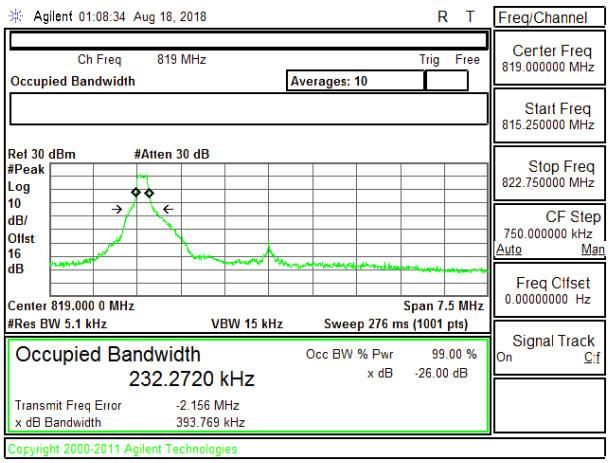

LTE B26 3MHz QPSK Middle Channel RB15-0



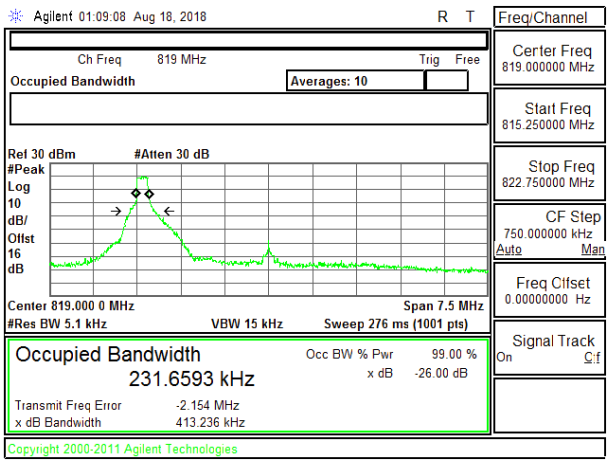

LTE B26 3MHz 16QAM Middle Channel RB15-0



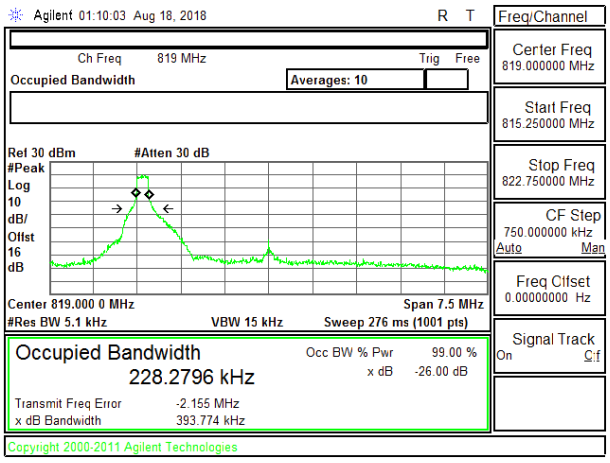

LTE B26 3MHz 64QAM Middle Channel RB15-0



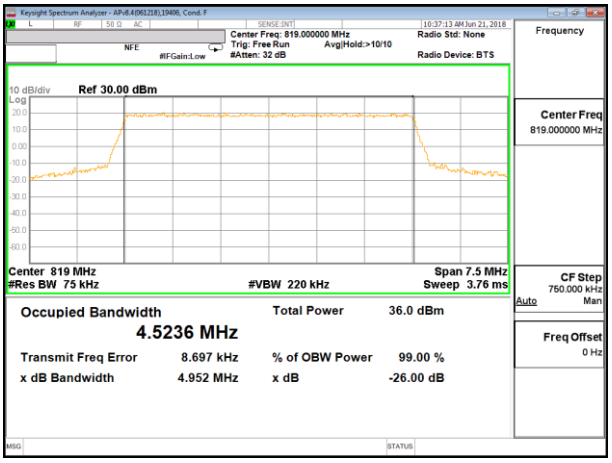

LTE B26 5MHz QPSK Middle Channel RB1-0, ID: 10646



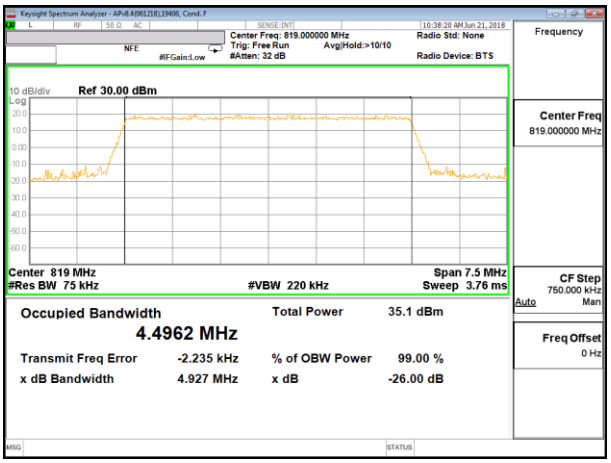

LTE B26 5MHz 16QAM Middle Channel RB1-0, ID: 10646



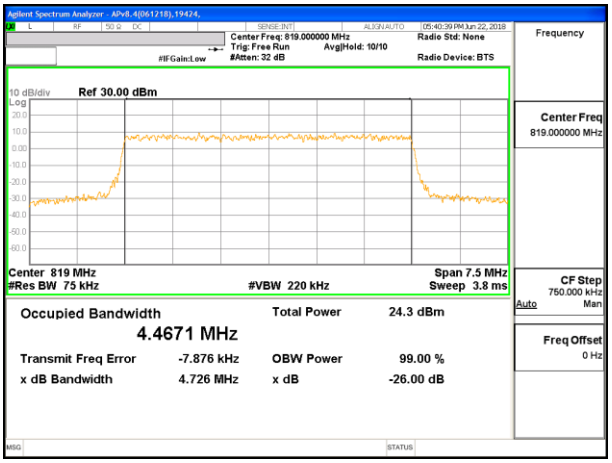

LTE B26 5MHz 64QAM Middle Channel RB1-0, ID: 10646




LTE B26 5MHz QPSK Middle Channel RB25-0




LTE B26 5MHz 16QAM Middle Channel RB25-0




LTE B26 5MHz 64QAM Middle Channel RB25-0