

FCC Test Report (PART 24)

Report No.: RF190819E05-1

FCC ID: NKRM18QF

Test Model: M18QF

Series Model: M18QA, M14QF, M14QA

Received Date: Aug. 19, 2019

Test Date: Aug. 29 to Sep. 04, 2019

Issued Date: Oct. 19, 2019

Applicant: Wistron NeWeb Corporation

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

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Taiwan

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan

**FCC Registration /
Designation Number:** 723255 / TW2022



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Table of Contents

| | |
|---|-----------|
| Release Control Record | 4 |
| 1 Certificate of Conformity | 5 |
| 2 Summary of Test Results | 6 |
| 2.1 Measurement Uncertainty..... | 6 |
| 2.2 Test Site and Instruments..... | 7 |
| 3 General Information | 9 |
| 3.1 General Description of EUT..... | 9 |
| 3.2 Configuration of System under Test..... | 11 |
| 3.2.1 Description of Support Units..... | 12 |
| 3.3 Test Mode Applicability and Tested Channel Detail..... | 13 |
| 3.4 EUT Operating Conditions..... | 14 |
| 3.5 General Description of Applied Standards..... | 15 |
| 4 Test Types and Results | 16 |
| 4.1 Output Power Measurement..... | 16 |
| 4.1.1 Limits of Output Power Measurement..... | 16 |
| 4.1.2 Test Procedures..... | 16 |
| 4.1.3 Test Setup..... | 16 |
| 4.1.4 Test Results..... | 17 |
| 4.2 Modulation Characteristics Measurement..... | 22 |
| 4.2.1 Limits of Modulation Characteristics..... | 22 |
| 4.2.2 Test Procedure..... | 22 |
| 4.2.3 Test Setup..... | 22 |
| 4.2.4 Test Results..... | 23 |
| 4.3 Frequency Stability Measurement..... | 24 |
| 4.3.1 Limits of Frequency Stability Measurement..... | 24 |
| 4.3.2 Test Procedure..... | 24 |
| 4.3.3 Test Setup..... | 24 |
| 4.3.4 Test Results..... | 25 |
| 4.4 Occupied Bandwidth Measurement..... | 27 |
| 4.4.1 Test Procedure..... | 27 |
| 4.4.2 Test Setup..... | 27 |
| 4.4.3 Test Result (-26dB Bandwidth)..... | 28 |
| 4.4.4 Test Result (Occupied Bandwidth)..... | 31 |
| 4.5 Band Edge Measurement..... | 34 |
| 4.5.1 Limits of Band Edge Measurement..... | 34 |
| 4.5.2 Test Setup..... | 34 |
| 4.5.3 Test Procedures..... | 34 |
| 4.5.4 Test Results..... | 35 |
| 4.6 Peak to Average Ratio..... | 42 |
| 4.6.1 Limits of Peak to Average Ratio Measurement..... | 42 |
| 4.6.2 Test Setup..... | 42 |
| 4.6.3 Test Procedures..... | 42 |
| 4.6.4 Test Results..... | 43 |
| 4.7 Conducted Spurious Emissions..... | 46 |
| 4.7.1 Limits of Conducted Spurious Emissions Measurement..... | 46 |
| 4.7.2 Test Setup..... | 46 |
| 4.7.3 Test Procedure..... | 46 |
| 4.7.4 Test Results..... | 47 |
| 4.8 Radiated Emission Measurement..... | 68 |
| 4.8.1 Limits of Radiated Emission Measurement..... | 68 |
| 4.8.2 Test Procedure..... | 68 |
| 4.8.3 Deviation from Test Standard..... | 68 |
| 4.8.4 Test Setup..... | 69 |

| | |
|---|------------|
| 4.8.5 Test Results | 70 |
| 5 Pictures of Test Arrangements..... | 112 |
| Appendix – Information of the Testing Laboratories | 113 |

Release Control Record

| Issue No. | Description | Date Issued |
|---------------|-------------------|---------------|
| RF190819E05-1 | Original release. | Oct. 19, 2019 |

1 Certificate of Conformity

Product: M2M DATA MODULE
Brand: Wistron NeWeb Corporation
Test Model: M18QF
Series Model: M18QA, M14QF, M14QA
Sample Status: ENGINEERING SAMPLE
Applicant: Wistron NeWeb Corporation
Test Date: Aug. 29 to Sep. 04, 2019
Standards: FCC Part 24 Subpart E

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Phoenix Huang , **Date:** Oct. 19, 2019
Phoenix Huang / Specialist

Approved by : May Chen , **Date:** Oct. 19, 2019
May Chen / Manager

2 Summary of Test Results

| Applied Standard: FCC Part 24 & Part 2 | | | |
|--|---|--------|--|
| FCC Clause | Test Item | Result | Remarks |
| 2.1046 24.232 | Equivalent Isotropically Radiated Power | PASS | Meet the requirement of limit. |
| 2.1046 24.232(d) | Peak To Average Ratio | PASS | Meet the requirement of limit. |
| 2.1047 | Modulation characteristics | PASS | Meet the requirement |
| 2.1055 24.235 | Frequency Stability | PASS | Meet the requirement of limit. |
| 2.1049 24.238(b) | Occupied Bandwidth | PASS | Meet the requirement of limit. |
| 24.238(b) | Band Edge Measurements | PASS | Meet the requirement of limit. |
| 2.1051 24.238 | Conducted Spurious Emissions | PASS | Meet the requirement of limit. |
| 2.1053 24.238 | Radiated Spurious Emissions | PASS | Meet the requirement of limit. Minimum passing margin is -13.24 dB at 7520 MHz. |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement | Frequency | Expanded Uncertainty (k=2) (±) |
|--------------------------------|---------------|--------------------------------|
| Radiated Emissions up to 1 GHz | 9kHz ~ 30MHz | 3.0 dB |
| | 30MHz ~ 1GHz | 4.9 dB |
| Radiated Emissions above 1 GHz | 1GHz ~ 6GHz | 5.1 dB |
| | 6GHz ~ 18GHz | 4.9 dB |
| | 18GHz ~ 40GHz | 5.2 dB |

2.2 Test Site and Instruments

For radiated spurious emissions test:

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|----------------------|-------------|-----------------|------------------|
| Test Receiver Keysight | N9038A | MY54450088 | July 03, 2019 | July 02, 2020 |
| Pre-Amplifier EMCI | EMC001340 | 980142 | May 30, 2019 | May 29, 2020 |
| Loop Antenna Electro-Metrics | EM-6879 | 264 | Jan. 22, 2019 | Jan. 21, 2020 |
| RF Cable | NA | LOOPCAB-001 | Jan. 14, 2019 | Jan. 13, 2020 |
| RF Cable | NA | LOOPCAB-002 | Jan. 14, 2019 | Jan. 13, 2020 |
| Pre-Amplifier Mini-Circuits | ZFL-1000VH2B | AMP-ZFL-01 | Oct. 30, 2018 | Oct. 29, 2019 |
| Trilog Broadband Antenna SCHWARZBECK | VULB 9168 | 9168-406 | Nov. 22, 2018 | Nov. 21, 2019 |
| RF Cable | 8D | 966-4-1 | Mar. 19, 2019 | Mar. 18, 2020 |
| RF Cable | 8D | 966-4-2 | Mar. 19, 2019 | Mar. 18, 2020 |
| RF Cable | 8D | 966-4-3 | Mar. 19, 2019 | Mar. 18, 2020 |
| Fixed attenuator Mini-Circuits | UNAT-5+ | PAD-3m-4-01 | Sep. 27, 2018 | Sep. 26, 2019 |
| Horn_Antenna SCHWARZBECK | BBHA 9120D | 9120D-783 | Nov. 25, 2018 | Nov. 24, 2019 |
| Pre-Amplifier EMCI | EMC12630SE | 980385 | Aug. 15, 2019 | Aug. 14, 2020 |
| RF Cable | EMC104-SM-SM-1200 | 160923 | Jan. 28, 2019 | Jan. 27, 2020 |
| RF Cable | 104 RF cable | 131215 | Jan. 10, 2019 | Jan. 09, 2020 |
| RF Cable | EMC104-SM-SM-6000 | 180418 | May 03, 2019 | May 02, 2020 |
| Pre-Amplifier EMCI | EMC184045SE | 980387 | Jan. 28, 2019 | Jan. 27, 2020 |
| Horn_Antenna SCHWARZBECK | BBHA 9170 | BBHA9170519 | Nov. 25, 2018 | Nov. 24, 2019 |
| RF Cable | EMC102-KM-KM-1200 | 160924 | Jan. 28, 2019 | Jan. 27, 2020 |
| RF Cable | EMC102-KM-KM-1200 | 160925 | Jan. 28, 2019 | Jan. 27, 2020 |
| Software | ADT_Radiated_V8.7.08 | NA | NA | NA |
| Boresight Antenna Tower & Turn Table Max-Full | MF-7802BS | MF780208530 | NA | NA |

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 4.
3. Loop antenna was used for all emissions below 30 MHz.
4. Tested Date: Aug. 29 to Sep. 03, 2019

For other test items:

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|--|-------------------------------|--------------------------------------|-----------------|------------------|
| Spectrum Analyzer R&S | FSV40 | 100964 | June 04, 2019 | June 03, 2020 |
| Spectrum Analyzer Agilent | E4446A | MY48250253 | July 24, 2019 | July 23, 2020 |
| Power meter Anritsu | ML2495A | 1014008 | May 13, 2019 | May 12, 2020 |
| Power sensor Anritsu | MA2411B | 0917122 | May 13, 2019 | May 12, 2020 |
| Fixed Attenuator Mini-Circuits | MDCS18N-10 | MDCS18N-10-01 | Apr. 15, 2019 | Apr. 14, 2020 |
| AC Power Source Extech Electronics | 6205 | 1440452 | NA | NA |
| DC Power Supply Topward | 6603D | 795558 | NA | NA |
| Temperature & Humidity Chamber Giant Force | GTH-150-40-SP-AR | MAA0812-008 | Jan. 09, 2019 | Jan. 08, 2020 |
| True RMS Clamp Meter FLUKE | 325 | 31130711WS | May 21, 2019 | May 20, 2020 |
| ESG Vector signal generator Agilent | E4438C | MY45094468/005 506 602 UK6 UNJ | Nov. 19, 2018 | Nov. 18, 2019 |
| Mech Switch Absorptive Mini-Circuits | MSP4TA-18+ | 0140 | Feb. 11, 2019 | Feb. 10, 2020 |
| FXD ATTEN Mini-Circuits | BW-S3W2+ | MN71981 | Feb. 11, 2019 | Feb. 10, 2020 |
| Software | ADT_RF Test Software V6.6.5.4 | NA | NA | NA |
| Universal Radio Communication Tester R&S | CMU200 | 121040 | Apr. 17, 2019 | Apr. 16, 2020 |
| LTE Wireless Communication Test Set Keysight | E7515A | MY55340229 | May 29, 2019 | May 28, 2020 |

- Note:**
1. The test was performed in Oven room 2.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. Tested Date: Sep. 03 to 04, 2019

3 General Information

3.1 General Description of EUT

| | | |
|---------------------|--|---------------------------------|
| Product | M2M DATA MODULE | |
| Brand | Wistron NeWeb Corporation | |
| Test Model | M18QF | |
| Series Model | M18QA, M14QF, M14QA | |
| Status of EUT | ENGINEERING SAMPLE | |
| Power Supply Rating | DC 3.8V from host equipment | |
| Modulation Type | WCDMA, HSDPA, HSUPA | BPSK |
| | LTE Band 2 | QPSK, 16QAM |
| Operating Frequency | WCDMA, HSDPA, HSUPA | 1852.4 MHz ~ 1907.6 MHz |
| | LTE Band 2 | 1850.7 MHz ~ 1909.3 MHz |
| Max. EIRP Power | WCDMA B2 | 26.09 dBm |
| | LTE Band 2 (Channel Bandwidth 1.4MHz) | 24.47 dBm |
| | LTE Band 2 (Channel Bandwidth 3MHz) | 24.53 dBm |
| | LTE Band 2 (Channel Bandwidth 5MHz) | 24.29 dBm |
| | LTE Band 2 (Channel Bandwidth 10MHz) | 24.39 dBm |
| | LTE Band 2 (Channel Bandwidth 15MHz) | 24.47 dBm |
| | LTE Band 2 (Channel Bandwidth 20MHz) | 24.27 dBm |
| Emission Designator | WCDMA B2 | 4M14F9W |
| | LTE Band 2 (Channel Bandwidth 1.4MHz) | QPSK: 1M09G7D 16QAM: 1M09D7W |
| | LTE Band 2 (Channel Bandwidth 3MHz) | QPSK: 2M70G7D 16QAM: 2M68D7W |
| | LTE Band 2 (Channel Bandwidth 5MHz) | QPSK: 4M51G7D 16QAM: 4M51D7W |
| | LTE Band 2 (Channel Bandwidth 10MHz) | QPSK: 8M98G7D 16QAM: 9M00D7W |
| | LTE Band 2 (Channel Bandwidth 15MHz) | QPSK: 13M5G7D 16QAM: 13M4D7W |
| | LTE Band 2 (Channel Bandwidth 20MHz) | QPSK: 18M0G7D 16QAM: 17M9D7W |
| Antenna Type | Refer to Note | |
| Antenna Connector | Refer to Note | |
| Accessory Device | NA | |
| Data Cable Supplied | NA | |

Note:

1. All models are listed as below.

| No. | Model Name | Support Spec. | |
|-----|------------|------------------------------------|-----|
| | | LTE | GPS |
| 1 | M18QF | CAT4, LTE B2/4/5/12/13, WCDMA B2/5 | Yes |
| 2 | M18QA | CAT4, LTE B2/4/5/12/14, WCDMA B2/5 | No |
| 3 | M14QF | CAT1, LTE B2/4/5/12/13, WCDMA B2/5 | Yes |
| 4 | M14QA | CAT1, LTE B2/4/5/12/14, WCDMA B2/5 | No |

Note: From the above models, model: M18QF was selected as representative model for the test and its data was recorded in this report.

- M18QF (LTE B2/4/5/12/13; 3G: B2/5) and M18QA (LTE B2/4/5/12/14; 3G: B2/5) are with same layout and the only difference is LTE supporting bands through software control.
- M18QA has only component change for B13/B14 of passive filter. For more details please refer to operation description exhibit.

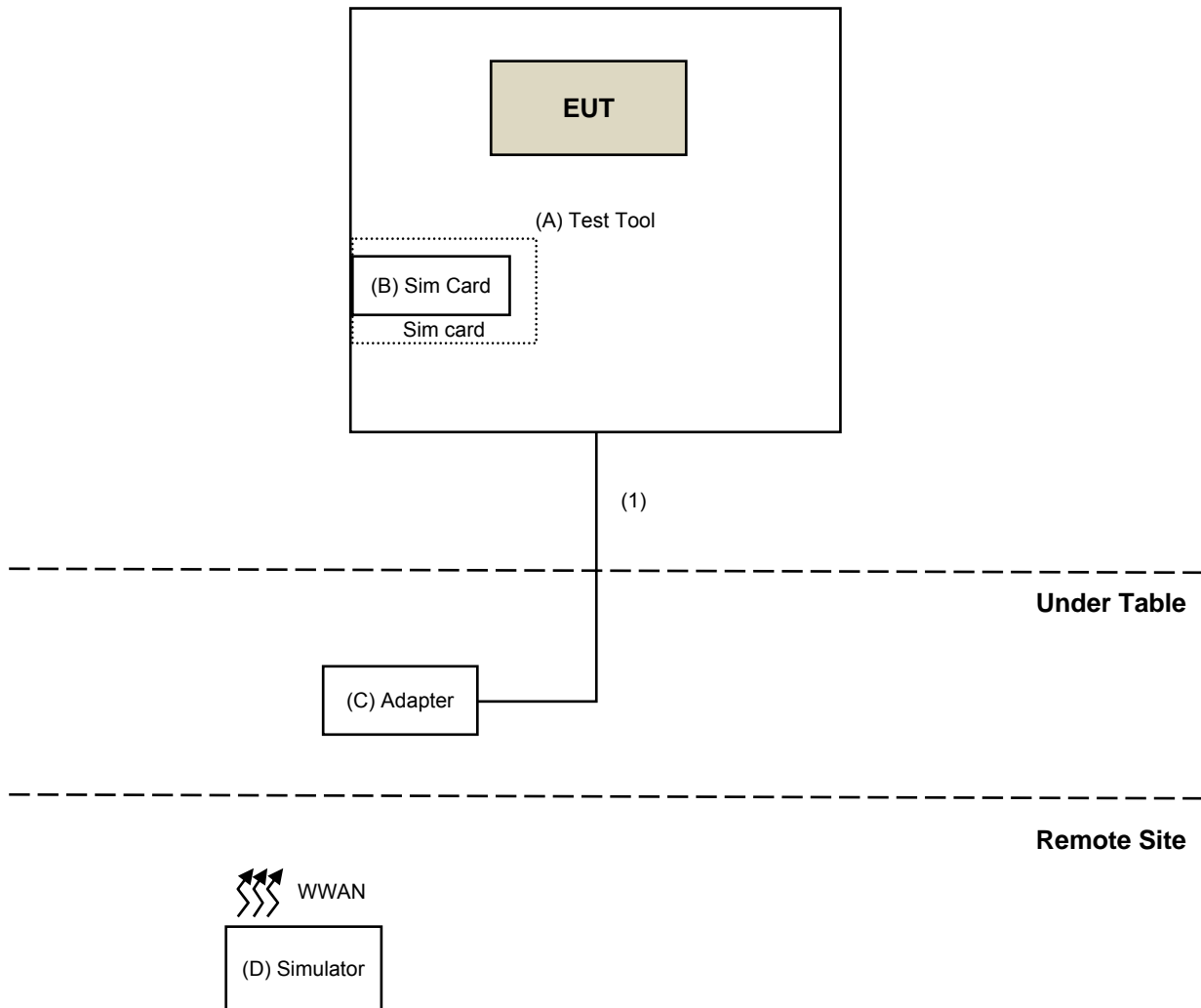
2. The antennas provided to the EUT, please refer to the following table:

| For GPS | | | | | | | |
|-------------|--------------|--------------|------------------------|-----------------------------|-----------------------------|----------------|----------------|
| Antenna No. | Brand | Model | Antenna Net Gain (dBi) | Frequency Range (MHz) | Antenna Type | Connector Type | |
| GPS | Master | 98619ZSAX029 | 2.24 | 1559~1606 | Dipole | SMA | |
| For WWAN | | | | | | | |
| Antenna No. | RF Chain No. | Brand | Model | Antenna Net Gain (dBi) | Frequency Range (MHz) | Antenna Type | Connector Type |
| 1 | Main | Wieson | GY115 | Please refer to below table | Please refer to below table | Dipole | SMA |
| 2 | Aux | Wieson | GY115 | Please refer to below table | Please refer to below table | Dipole | SMA |

| Antenna gain list | | | |
|-------------------|-------------------|--------------|-------------|
| Band | Freq. Range (MHz) | Gain (dBi) | |
| | | Ant 1 (Main) | Ant 2 (Aux) |
| WCDMA II (B2) | 1850~1910 | 1.56 | 1.56 |
| WCDMA V (B5) | 824~849 | 3.2 | 3.2 |
| LTE Band (2) | 1850~1910 | 1.56 | 1.56 |
| LTE Band (4) | 1710~1755 | 1.62 | 1.62 |
| LTE Band (5) | 824~849 | 3.2 | 3.2 |
| LTE Band (12) | 698~716 | 1.49 | 1.49 |
| LTE Band (13) | 777~787 | 1.66 | 1.66 |
| LTE Band (14) | 788~798 | 1.60 | 1.60 |

3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 Configuration of System under Test



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|----|-----------|----------|-----------------|------------|--------|--------------------------------|
| A. | Test Tool | WNC | NA | NA | NA | Supplied by client |
| B. | Sim Card | R&S | CRT-Z3 | NA | NA | Provided by Lab |
| C. | Adapter | L.E.I | MU24-Y120200-A1 | NA | NA | Supplied by client |
| D. | Simulator | R&S | CMU200 | 121040 | NA | Provided by Lab (for WCDMA) |
| | Simulator | Keysight | E7515A | MY55340229 | NA | Provided by Lab (for LTE) |

Note:

1. All power cords of the above support units are non-shielded (1.8m).

| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|----|--------------|------|------------|--------------------|--------------|--------------------|
| 1. | DC Cable | 1 | 1.5 | No | 0 | Supplied by client |

3.3 Test Mode Applicability and Tested Channel Detail

WCDMA B2

| Test Item | Available Channel | Tested Channel | Mode |
|---------------------------------|-------------------|------------------|-------|
| EIRP | 9262 to 9538 | 9262, 9400, 9538 | WCDMA |
| Frequency Stability | 9262 to 9538 | 9400 | WCDMA |
| Occupied Bandwidth | 9262 to 9538 | 9262, 9400, 9538 | WCDMA |
| Band Edge | 9262 to 9538 | 9262, 9538 | WCDMA |
| Peak to Average Ratio | 9262 to 9538 | 9262, 9400, 9538 | WCDMA |
| Conducted Emission | 9262 to 9538 | 9262, 9400, 9538 | WCDMA |
| Radiated Emission Below 1GHz | 9262 to 9538 | 9262, 9400, 9538 | WCDMA |
| Radiated Emission Above 1GHz | 9262 to 9538 | 9262, 9400, 9538 | WCDMA |

LTE Band 2

| TEST ITEM | AVAILABLE CHANNEL | TESTED CHANNEL | CHANNEL BANDWIDTH | MODULATION | MODE |
|-----------------------|-------------------|---------------------|-------------------|------------|-------------------|
| EIRP | 18607 to 19193 | 18607, 18900 19193 | 1.4MHz | QPSK/16QAM | 1RB / 0 RB offset |
| | 18615 to 19185 | 18615, 18900, 19185 | 3MHz | QPSK/16QAM | 1RB / 0 RB offset |
| | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | QPSK/16QAM | 1RB / 0 RB offset |
| | 18650 to 19150 | 18650, 18900, 19150 | 10MHz | QPSK/16QAM | 1RB / 0 RB offset |
| | 18675 to 19125 | 18675, 18900, 19125 | 15MHz | QPSK/16QAM | 1RB / 0 RB offset |
| | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | QPSK/16QAM | 1RB / 0 RB offset |
| Frequency Stability | 18607 to 19193 | 18900 | 1.4MHz | QPSK | - |
| | 18615 to 19185 | 18900 | 3MHz | QPSK | - |
| | 18625 to 19175 | 18900 | 5MHz | QPSK | - |
| | 18650 to 19150 | 18900 | 10MHz | QPSK | - |
| | 18675 to 19125 | 18900 | 15MHz | QPSK | - |
| | 18700 to 19100 | 18900 | 20MHz | QPSK | - |
| Occupied Bandwidth | 18607 to 19193 | 18607, 18900 19193 | 1.4MHz | QPSK/16QAM | Full RB |
| | 18615 to 19185 | 18615, 18900, 19185 | 3MHz | QPSK/16QAM | Full RB |
| | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | QPSK/16QAM | Full RB |
| | 18650 to 19150 | 18650, 18900, 19150 | 10MHz | QPSK/16QAM | Full RB |
| | 18675 to 19125 | 18675, 18900, 19125 | 15MHz | QPSK/16QAM | Full RB |
| | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | QPSK/16QAM | Full RB |
| Peak to Average Ratio | 18607 to 19193 | 18607, 18900 19193 | 1.4MHz | QPSK/16QAM | Full RB |
| | 18615 to 19185 | 18615, 18900, 19185 | 3MHz | QPSK/16QAM | Full RB |
| | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | QPSK/16QAM | Full RB |
| | 18650 to 19150 | 18650, 18900, 19150 | 10MHz | QPSK/16QAM | Full RB |
| | 18675 to 19125 | 18675, 18900, 19125 | 15MHz | QPSK/16QAM | Full RB |
| | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | QPSK/16QAM | Full RB |

| | | | | | |
|--------------------|----------------|---------------------|--------|------|----------------------|
| Band Edge | 18607 to 19193 | 18607 | 1.4MHz | QPSK | 1 RB / 0 RB Offset |
| | | 19193 | | | 1 RB / 5 RB Offset |
| | | 18607, 19193 | | | 6 RB / 0 RB Offset |
| | 18615 to 19185 | 18615 | 3MHz | QPSK | 1 RB / 0 RB Offset |
| | | 19185 | | | 1 RB / 14 RB Offset |
| | | 18615, 19185 | | | 15 RB / 0 RB Offset |
| | 18625 to 19175 | 18625, | 5MHz | QPSK | 1 RB / 0 RB Offset |
| | | 19175 | | | 1 RB / 24 RB Offset |
| | | 18625, 19175 | | | 25 RB / 0 RB Offset |
| | 18650 to 19150 | 18650 | 10MHz | QPSK | 1 RB / 0 RB Offset |
| | | 19150 | | | 1 RB / 49 RB Offset |
| | | 18650, 19150 | | | 50 RB / 0 RB Offset |
| | 18675 to 19125 | 18675, | 15MHz | QPSK | 1 RB / 0 RB Offset |
| | | 19125 | | | 1 RB / 74 RB Offset |
| | | 18675, 19125 | | | 75 RB / 0 RB Offset |
| | 18700 to 19100 | 18700. | 20MHz | QPSK | 1 RB / 0 RB Offset |
| | | 19100 | | | 1 RB / 99 RB Offset |
| | | 18700. 19100 | | | 100 RB / 0 RB Offset |
| Conducted Emission | 18607 to 19193 | 18607, 18900 19193 | 1.4MHz | QPSK | 1 RB / 0 RB Offset |
| | 18615 to 19185 | 18615, 18900, 19185 | 3MHz | QPSK | 1 RB / 0 RB Offset |
| | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | QPSK | 1 RB / 0 RB Offset |
| | 18650 to 19150 | 18650, 18900, 19150 | 10MHz | QPSK | 1 RB / 0 RB Offset |
| | 18675 to 19125 | 18675, 18900, 19125 | 15MHz | QPSK | 1 RB / 0 RB Offset |
| | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | QPSK | 1 RB / 0 RB Offset |
| Radiated Emission | 18607 to 19193 | 18607, 18900 19193 | 1.4MHz | QPSK | 1 RB / 0 RB Offset |
| | 18615 to 19185 | 18615, 18900, 19185 | 3MHz | QPSK | 1 RB / 0 RB Offset |
| | 18625 to 19175 | 18625, 18900, 19175 | 5MHz | QPSK | 1 RB / 0 RB Offset |
| | 18650 to 19150 | 18650, 18900, 19150 | 10MHz | QPSK | 1 RB / 0 RB Offset |
| | 18675 to 19125 | 18675, 18900, 19125 | 15MHz | QPSK | 1 RB / 0 RB Offset |
| | 18700 to 19100 | 18700, 18900, 19100 | 20MHz | QPSK | 1 RB / 0 RB Offset |

NOTE:

All supported modulation types were evaluated. The Worst case of QPSK was selected. Therefore, the Band Edge, Frequency Stability, Condcudeted Emission and Radiated Emission were presented under QPSK mode only.

Test Condition:

| Test Item | Environmental Conditions | Input Power (System) | Tested By |
|---------------------------------|-------------------------------------|----------------------|--------------|
| EIRP | 25deg. C, 60%RH | 120Vac, 60Hz | Jyunchun Lin |
| Frequency Stability | 25deg. C, 60%RH | 120Vac, 60Hz | Jyunchun Lin |
| Occupied Bandwidth | 25deg. C, 60%RH | 120Vac, 60Hz | Jyunchun Lin |
| Band Edge | 25deg. C, 60%RH | 120Vac, 60Hz | Jyunchun Lin |
| Peak to Average Ratio | 25deg. C, 60%RH | 120Vac, 60Hz | Jyunchun Lin |
| Condcudeted Emission | 25deg. C, 60%RH | 120Vac, 60Hz | Jyunchun Lin |
| Radiated Emission Below 1GHz | 24deg. C, 73%RH, 24deg. C, 76%RH | 120Vac, 60Hz | Andy Ho |
| Radiated Emission Above 1GHz | 24deg. C, 73%RH | 120Vac, 60Hz | Andy Ho |

3.4 EUT Operating Conditions

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 24 Subpart E

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

NOTE: All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 2 watts e.i.r.p.

4.1.2 Test Procedures

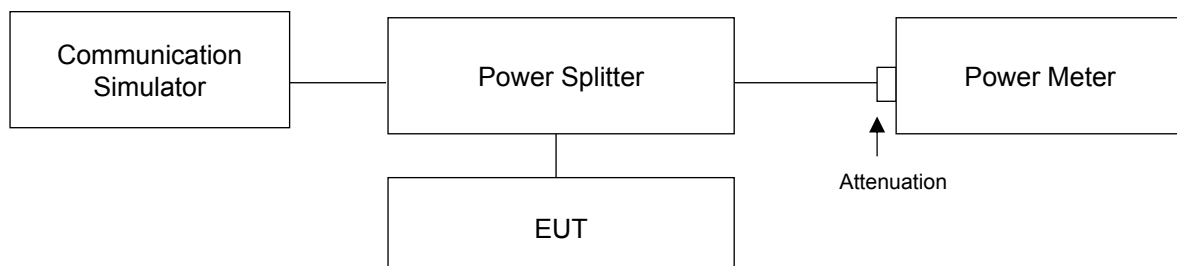
Conducted Power Measurement:

The EUT was set up for the maximum power with WCDMA/LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and difference RB size/ RB offset for difference bandwidth record the power level shown on power meter.

EIRP Measurement:

- a. $EIRP = \text{Conducted Output power level} + \text{Antenna gain.}$

4.1.3 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.4 Test Results

CONDUCTED OUTPUT POWER (dBm)

WCDMA B2

| Band | WCDMA B2 | | |
|-----------------|----------|--------|--------|
| Channel | 9262 | 9400 | 9538 |
| Frequency (MHz) | 1852.4 | 1880.0 | 1907.6 |
| RMC | 24.53 | 24.38 | 24.48 |
| HSDPA Subtest-1 | 24.11 | 24.09 | 24.05 |
| HSDPA Subtest-2 | 24.03 | 24.08 | 24.10 |
| HSDPA Subtest-3 | 23.99 | 24.05 | 24.03 |
| HSDPA Subtest-4 | 23.95 | 24.01 | 23.98 |
| HSUPA Subtest-1 | 23.85 | 23.81 | 23.77 |
| HSUPA Subtest-2 | 23.81 | 23.85 | 23.74 |
| HSUPA Subtest-3 | 23.75 | 23.79 | 23.71 |
| HSUPA Subtest-4 | 23.77 | 23.80 | 23.76 |
| HSUPA Subtest-5 | 23.80 | 23.75 | 23.75 |

LTE Band 2

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|-----------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|
| | | | Low CH | Mid CH | High CH | | Low CH | Mid CH | High CH | |
| | | | 18607 | 18900 | 19193 | | 18607 | 18900 | 19193 | |
| | | | 1850.7 | 1880 | 1909.3 | | 1850.7 | 1880 | 1909.3 | |
| | | | MHz | MHz | MHz | | MHz | MHz | MHz | |
| 2 / 1.4M | 1 | 0 | 22.08 | 22.46 | 22.91 | 0 | 20.72 | 21.56 | 21.88 | 1 |
| | 1 | 2 | 22.03 | 22.49 | 22.61 | 0 | 20.70 | 21.39 | 21.76 | 1 |
| | 1 | 5 | 21.89 | 22.43 | 22.79 | 0 | 20.47 | 21.52 | 21.54 | 1 |
| | 3 | 0 | 21.98 | 22.31 | 22.85 | 0 | 20.40 | 21.21 | 22.00 | 1 |
| | 3 | 1 | 21.92 | 22.35 | 21.95 | 0 | 20.84 | 21.33 | 21.91 | 1 |
| | 3 | 3 | 21.90 | 22.33 | 22.67 | 0 | 20.92 | 21.43 | 21.86 | 1 |
| | 6 | 0 | 20.85 | 21.47 | 21.05 | 1 | 19.89 | 19.75 | 19.81 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|-----------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|
| | | | Low CH | Mid CH | High CH | | Low CH | Mid CH | High CH | |
| | | | 18615 | 18900 | 19185 | | 18615 | 18900 | 19185 | |
| | | | 1851.5 | 1880 | 1908.5 | | 1851.5 | 1880 | 1908.5 | |
| | | | MHz | MHz | MHz | | MHz | MHz | MHz | |
| 2 / 3M | 1 | 0 | 22.37 | 22.48 | 22.97 | 0 | 20.88 | 21.03 | 21.39 | 1 |
| | 1 | 7 | 21.87 | 22.39 | 22.76 | 0 | 21.39 | 21.32 | 21.28 | 1 |
| | 1 | 14 | 21.97 | 22.37 | 21.94 | 0 | 21.51 | 20.95 | 21.21 | 1 |
| | 8 | 0 | 20.98 | 21.38 | 21.76 | 1 | 19.86 | 20.07 | 20.80 | 2 |
| | 8 | 3 | 20.90 | 21.42 | 21.79 | 1 | 19.90 | 20.06 | 20.60 | 2 |
| | 8 | 7 | 20.95 | 21.40 | 21.81 | 1 | 19.76 | 20.09 | 20.48 | 2 |
| | 15 | 0 | 20.96 | 21.39 | 21.86 | 1 | 19.80 | 20.95 | 20.84 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|-----------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|
| | | | Low CH | Mid CH | High CH | | Low CH | Mid CH | High CH | |
| | | | 18625 | 18900 | 19175 | | 18625 | 18900 | 19175 | |
| | | | 1852.5 | 1880 | 1907.5 | | 1852.5 | 1880 | 1907.5 | |
| | | | MHz | MHz | MHz | | MHz | MHz | MHz | |
| 2 / 5M | 1 | 0 | 22.73 | 22.51 | 22.52 | 0 | 19.88 | 21.30 | 21.35 | 1 |
| | 1 | 12 | 21.89 | 22.38 | 22.26 | 0 | 20.85 | 21.21 | 21.44 | 1 |
| | 1 | 24 | 22.08 | 21.38 | 22.36 | 0 | 20.92 | 21.39 | 21.21 | 1 |
| | 12 | 0 | 20.99 | 21.24 | 21.40 | 1 | 20.97 | 20.42 | 20.65 | 2 |
| | 12 | 6 | 20.86 | 21.50 | 21.37 | 1 | 19.75 | 20.39 | 20.64 | 2 |
| | 12 | 13 | 21.02 | 21.42 | 21.56 | 1 | 19.87 | 20.38 | 20.57 | 2 |
| | 25 | 0 | 21.00 | 21.39 | 21.49 | 1 | 20.00 | 20.29 | 20.53 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|-----------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|
| | | | Low CH | Mid CH | High CH | | Low CH | Mid CH | High CH | |
| | | | 18650 | 18900 | 19150 | | 18650 | 18900 | 19150 | |
| | | | 1855 | 1880 | 1905 | | 1855 | 1880 | 1905 | |
| | | | MHz | MHz | MHz | | MHz | MHz | MHz | |
| 2 / 10M | 1 | 0 | 22.73 | 22.65 | 22.83 | 0 | 21.40 | 21.39 | 21.28 | 1 |
| | 1 | 24 | 22.69 | 22.53 | 22.62 | 0 | 21.91 | 21.35 | 21.65 | 1 |
| | 1 | 49 | 22.13 | 22.50 | 21.68 | 0 | 20.89 | 21.11 | 21.38 | 1 |
| | 25 | 0 | 21.14 | 21.58 | 21.74 | 1 | 20.04 | 20.46 | 20.55 | 2 |
| | 25 | 12 | 21.21 | 21.41 | 21.69 | 1 | 20.17 | 20.35 | 20.65 | 2 |
| | 25 | 25 | 21.21 | 21.46 | 21.59 | 1 | 20.02 | 20.35 | 20.40 | 2 |
| | 50 | 0 | 21.17 | 21.51 | 21.63 | 1 | 19.96 | 20.35 | 20.46 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|-----------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|
| | | | Low CH | Mid CH | High CH | | Low CH | Mid CH | High CH | |
| | | | 18675 | 18900 | 19125 | | 18675 | 18900 | 19125 | |
| | | | 1857.5 | 1880 | 1902.5 | | 1857.5 | 1880 | 1902.5 | |
| | | | MHz | MHz | MHz | | MHz | MHz | MHz | |
| 2 / 15M | 1 | 0 | 22.39 | 22.27 | 22.91 | 0 | 20.11 | 21.14 | 21.23 | 1 |
| | 1 | 37 | 22.49 | 22.53 | 22.71 | 0 | 21.06 | 21.58 | 22.15 | 1 |
| | 1 | 74 | 22.38 | 22.44 | 22.69 | 0 | 21.00 | 21.62 | 21.61 | 1 |
| | 36 | 0 | 21.12 | 21.26 | 21.68 | 1 | 20.11 | 20.10 | 20.55 | 2 |
| | 36 | 19 | 21.20 | 21.44 | 21.55 | 1 | 20.18 | 20.28 | 20.66 | 2 |
| | 36 | 39 | 21.16 | 21.54 | 21.63 | 1 | 20.04 | 20.17 | 20.71 | 2 |
| | 75 | 0 | 21.24 | 21.39 | 21.64 | 1 | 20.69 | 20.33 | 20.60 | 2 |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|-----------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|
| | | | Low CH | Mid CH | High CH | | Low CH | Mid CH | High CH | |
| | | | 18700 | 18900 | 19100 | | 18700 | 18900 | 19100 | |
| | | | 1860 | 1880 | 1900 | | 1860 | 1880 | 1900 | |
| | | | MHz | MHz | MHz | | MHz | MHz | MHz | |
| 2 / 20M | 1 | 0 | 22.71 | 22.43 | 22.67 | 0 | 20.23 | 20.87 | 21.52 | 1 |
| | 1 | 50 | 22.46 | 22.55 | 22.19 | 0 | 20.10 | 21.23 | 21.43 | 1 |
| | 1 | 99 | 21.97 | 22.55 | 21.59 | 0 | 20.92 | 21.39 | 21.20 | 1 |
| | 50 | 0 | 21.04 | 21.30 | 21.55 | 1 | 20.42 | 20.22 | 20.66 | 2 |
| | 50 | 25 | 21.17 | 21.46 | 21.61 | 1 | 20.58 | 20.40 | 20.63 | 2 |
| | 50 | 50 | 21.13 | 21.43 | 21.55 | 1 | 20.01 | 20.34 | 20.65 | 2 |
| | 100 | 0 | 21.12 | 21.29 | 21.43 | 1 | 20.00 | 20.30 | 20.55 | 2 |

EIRP POWER
WCDMA B2

| Band | WCDMA B2 | | |
|----------------------|----------|-------|--------|
| Channel | 9262 | 9400 | 9538 |
| Frequency (MHz) | 1852.4 | 1880 | 1907.6 |
| RMC 12.2K | 24.53 | 24.38 | 24.48 |
| Gain (dBi) | 1.56 | 1.56 | 1.56 |
| Max EIRP Power (dBm) | 26.09 | 25.94 | 26.04 |

LTE Band 2

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|----------------------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|
| | | | Low CH | Mid CH | High CH | | Low CH | Mid CH | High CH | |
| | | | 18607 | 18900 | 19193 | | 18607 | 18900 | 19193 | |
| | | | 1850.7 | 1880 | 1909.3 | | 1850.7 | 1880 | 1909.3 | |
| | MHz | MHz | MHz | MHz | MHz | MHz | | | | |
| 2 / 1.4M | 1 | 0 | 22.08 | 22.46 | 22.91 | 0 | 20.72 | 21.56 | 21.88 | 1 |
| Gain (dBi) | | 1.56 | 1.56 | 1.56 | 1.56 | 1.56 | 1.56 | | | |
| Max EIRP Power (dBm) | | 23.64 | 24.02 | 24.47 | 22.28 | 23.12 | 23.44 | | | |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|----------------------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|
| | | | Low CH | Mid CH | High CH | | Low CH | Mid CH | High CH | |
| | | | 18615 | 18900 | 19185 | | 18615 | 18900 | 19185 | |
| | | | 1851.5 | 1880 | 1908.5 | | 1851.5 | 1880 | 1908.5 | |
| | MHz | MHz | MHz | MHz | MHz | MHz | | | | |
| 2 / 3M | 1 | 0 | 22.37 | 22.48 | 22.97 | 0 | 20.88 | 21.03 | 21.39 | 1 |
| Gain (dBi) | | 1.56 | 1.56 | 1.56 | 1.56 | 1.56 | 1.56 | | | |
| Max EIRP Power (dBm) | | 23.93 | 24.04 | 24.53 | 22.44 | 22.59 | 22.95 | | | |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|----------------------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|
| | | | Low CH | Mid CH | High CH | | Low CH | Mid CH | High CH | |
| | | | 18625 | 18900 | 19175 | | 18625 | 18900 | 19175 | |
| | | | 1852.5 | 1880 | 1907.5 | | 1852.5 | 1880 | 1907.5 | |
| | MHz | MHz | MHz | MHz | MHz | MHz | | | | |
| 2 / 5M | 1 | 0 | 22.73 | 22.51 | 22.52 | 0 | 19.88 | 21.30 | 21.35 | 1 |
| Gain (dBi) | | 1.56 | 1.56 | 1.56 | 1.56 | 1.56 | 1.56 | | | |
| Max EIRP Power (dBm) | | 24.29 | 24.07 | 24.08 | 21.44 | 22.86 | 22.91 | | | |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|----------------------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|
| | | | Low CH | Mid CH | High CH | | Low CH | Mid CH | High CH | |
| | | | 18650 | 18900 | 19150 | | 20000 | 20175 | 20350 | |
| | | | 1855 | 1880 | 1905 | | 1715 | 1732.5 | 1750 | |
| | MHz | MHz | MHz | MHz | MHz | MHz | | | | |
| 2 / 10M | 1 | 0 | 22.73 | 22.65 | 22.83 | 0 | 21.40 | 21.39 | 21.28 | 1 |
| Gain (dBi) | | 1.56 | 1.56 | 1.56 | 1.56 | 1.56 | 1.56 | | | |
| Max EIRP Power (dBm) | | 24.29 | 24.21 | 24.39 | 22.96 | 22.95 | 22.84 | | | |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|----------------------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|
| | | | Low CH | Mid CH | High CH | | Low CH | Mid CH | High CH | |
| | | | 18675 | 18900 | 19125 | | 18675 | 18900 | 19125 | |
| | | | 1857.5 | 1880 | 1902.5 | | 1857.5 | 1880 | 1902.5 | |
| | | | MHz | MHz | MHz | | MHz | MHz | MHz | |
| 2 / 15M | 1 | 0 | 22.39 | 22.27 | 22.91 | 0 | 20.11 | 21.14 | 21.23 | 1 |
| Gain (dBi) | | | 1.56 | 1.56 | 1.56 | | 1.56 | 1.56 | 1.56 | |
| Max EIRP Power (dBm) | | | 23.95 | 23.83 | 24.47 | | 21.67 | 22.70 | 22.79 | |

| Band / BW | RB Size | RB Offset | QPSK | | | 3GPP MPR (dB) | 16QAM | | | 3GPP MPR (dB) |
|----------------------|---------|-----------|--------|--------|---------|---------------|--------|--------|---------|---------------|
| | | | Low CH | Mid CH | High CH | | Low CH | Mid CH | High CH | |
| | | | 18700 | 18900 | 19100 | | 18700 | 18900 | 19100 | |
| | | | 1860 | 1880 | 1900 | | 1860 | 1880 | 1900 | |
| | | | MHz | MHz | MHz | | MHz | MHz | MHz | |
| 2 / 20M | 1 | 0 | 22.71 | 22.43 | 22.67 | 0 | 20.23 | 20.87 | 21.52 | 1 |
| Gain (dBi) | | | 1.56 | 1.56 | 1.56 | | 1.56 | 1.56 | 1.56 | |
| Max EIRP Power (dBm) | | | 24.27 | 23.99 | 24.23 | | 21.79 | 22.43 | 23.08 | |

4.2 Modulation Characteristics Measurement

4.2.1 Limits of Modulation Characteristics

N/A

4.2.2 Test Procedure

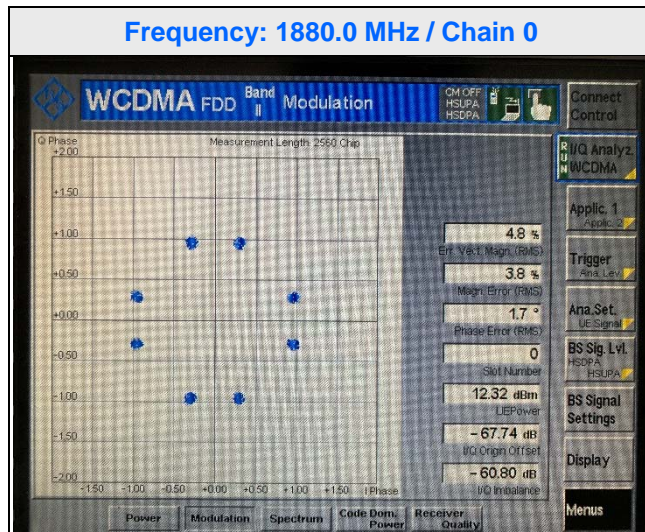
Connect the EUT to Communication Simulator via the antenna connector. The frequency band is set as EUT supported Modulation and Channels, the EUT output is matched with 50 ohm load, the waveform quality and constellation of the EUT was tested.

4.2.3 Test Setup

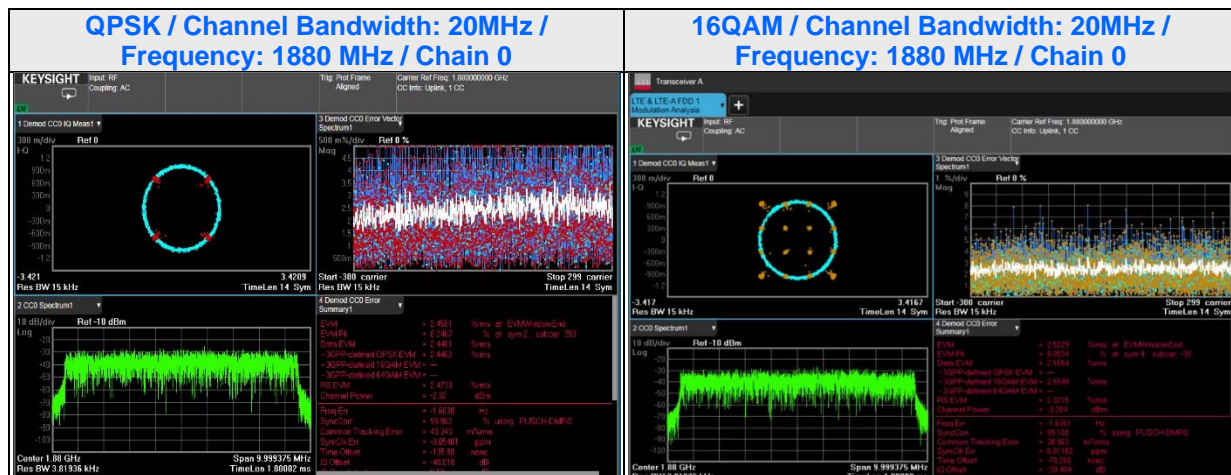


4.2.4 Test Results

WCDMA B2



LTE Band 2



4.3 Frequency Stability Measurement

4.3.1 Limits of Frequency Stability Measurement

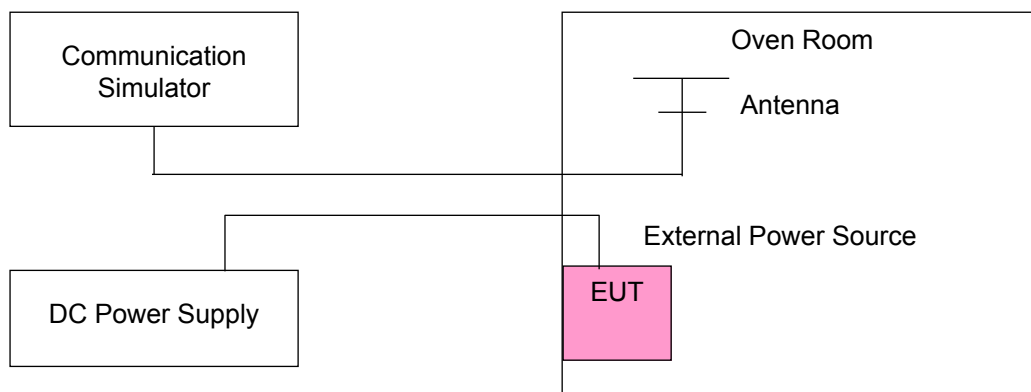
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

4.3.2 Test Procedure

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ± 0.5 °C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

4.3.3 Test Setup



4.3.4 Test Results

WCDMA B2

Frequency Error vs. Voltage

| Voltage (Volts) | Frequency Error (MHz) | | Limit (MHz) | |
|-----------------|-----------------------|---------|-------------|-----------|
| | WCDMA B2 | | Low Edge | High Edge |
| | Low | High | | |
| 3.23 | 1850.35 | 1909.62 | 1850 | 1910 |
| 4.37 | 1850.32 | 1909.77 | 1850 | 1910 |

Frequency Error vs. Temperature.

| TEMP. (°C) | Frequency Error (MHz) | | Limit (MHz) | |
|------------|-----------------------|---------|-------------|-----------|
| | WCDMA B2 | | Low Edge | High Edge |
| | Low | High | | |
| 60 | 1850.36 | 1909.69 | 1850 | 1910 |
| 50 | 1850.41 | 1909.68 | 1850 | 1910 |
| 40 | 1850.24 | 1909.70 | 1850 | 1910 |
| 30 | 1850.39 | 1909.69 | 1850 | 1910 |
| 20 | 1850.33 | 1909.69 | 1850 | 1910 |
| 10 | 1850.33 | 1909.69 | 1850 | 1910 |
| 0 | 1850.40 | 1909.70 | 1850 | 1910 |
| -10 | 1850.24 | 1909.70 | 1850 | 1910 |
| -20 | 1850.28 | 1909.69 | 1850 | 1910 |
| -30 | 1850.39 | 1909.69 | 1850 | 1910 |

LTE Band 2

Frequency Error vs. Voltage

| Voltage (Volts) | Frequency Error (MHz) | | | | | | | | | | | | Limit (MHz) | |
|--------------------|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------------|--------------|
| | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | | Low Edge | High Edge |
| | Low | High | Low | High | Low | High | Low | High | Low | High | Low | High | | |
| 3.23 | 1850.164 | 1909.721 | 1850.177 | 1909.766 | 1850.329 | 1909.811 | 1850.429 | 1909.459 | 1850.759 | 1909.421 | 1851.080 | 1909.039 | 1850 | 1910 |
| 4.37 | 1850.162 | 1909.721 | 1850.178 | 1909.764 | 1850.331 | 1909.810 | 1850.430 | 1909.459 | 1850.760 | 1909.420 | 1851.079 | 1909.039 | 1850 | 1910 |

Frequency Error vs. Temperature

| Temp. (°C) | Frequency Error (MHz) | | | | | | | | | | | | Limit (MHz) | |
|---------------|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|--------------|
| | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | | Low Edge | High Edge |
| | Low | High | Low | High | Low | High | Low | High | Low | High | Low | High | | |
| 60 | 1850.163 | 1909.721 | 1850.176 | 1909.765 | 1850.329 | 1909.809 | 1850.430 | 1909.460 | 1850.761 | 1909.420 | 1851.081 | 1909.040 | 1850 | 1910 |
| 50 | 1850.164 | 1909.721 | 1850.177 | 1909.765 | 1850.330 | 1909.810 | 1850.431 | 1909.459 | 1850.759 | 1909.419 | 1851.081 | 1909.040 | 1850 | 1910 |
| 40 | 1850.164 | 1909.722 | 1850.176 | 1909.765 | 1850.331 | 1909.810 | 1850.431 | 1909.459 | 1850.759 | 1909.421 | 1851.079 | 1909.040 | 1850 | 1910 |
| 30 | 1850.164 | 1909.721 | 1850.178 | 1909.764 | 1850.329 | 1909.811 | 1850.429 | 1909.459 | 1850.761 | 1909.419 | 1851.079 | 1909.040 | 1850 | 1910 |
| 20 | 1850.163 | 1909.722 | 1850.177 | 1909.765 | 1850.330 | 1909.810 | 1850.430 | 1909.460 | 1850.760 | 1909.420 | 1851.080 | 1909.040 | 1850 | 1910 |
| 10 | 1850.164 | 1909.722 | 1850.177 | 1909.765 | 1850.330 | 1909.811 | 1850.429 | 1909.459 | 1850.759 | 1909.419 | 1851.080 | 1909.041 | 1850 | 1910 |
| 0 | 1850.164 | 1909.721 | 1850.177 | 1909.766 | 1850.331 | 1909.810 | 1850.430 | 1909.459 | 1850.759 | 1909.419 | 1851.080 | 1909.041 | 1850 | 1910 |
| -10 | 1850.164 | 1909.721 | 1850.177 | 1909.765 | 1850.329 | 1909.810 | 1850.431 | 1909.460 | 1850.760 | 1909.421 | 1851.081 | 1909.040 | 1850 | 1910 |
| -20 | 1850.163 | 1909.722 | 1850.178 | 1909.766 | 1850.329 | 1909.811 | 1850.430 | 1909.459 | 1850.760 | 1909.420 | 1851.079 | 1909.039 | 1850 | 1910 |
| -30 | 1850.163 | 1909.723 | 1850.176 | 1909.765 | 1850.331 | 1909.811 | 1850.430 | 1909.460 | 1850.759 | 1909.420 | 1851.079 | 1909.040 | 1850 | 1910 |

4.4 Occupied Bandwidth Measurement

4.4.1 Test Procedure

All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The bandwidth of the fundamental frequency was measured by spectrum analyzer with $RBW \geq 1\% \times OBW$ and $VBW \geq 3 \times RBW$.

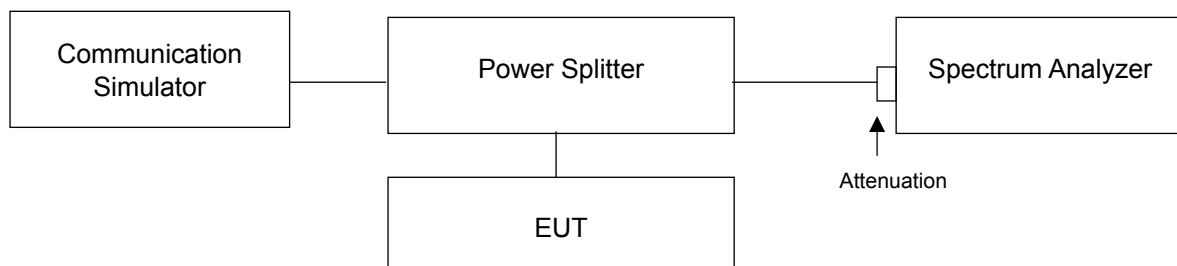
Occupied Bandwidth Measurement:

Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

26 dB Bandwidth Measurement:

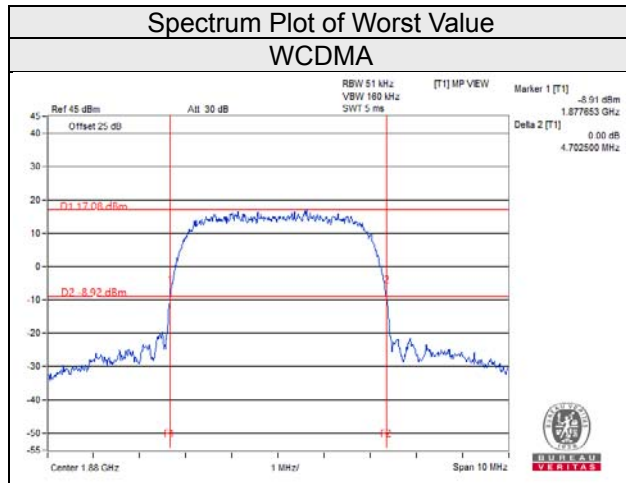
The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26dB below the transmitter power.

4.4.2 Test Setup



4.4.3 Test Result (-26dB Bandwidth)

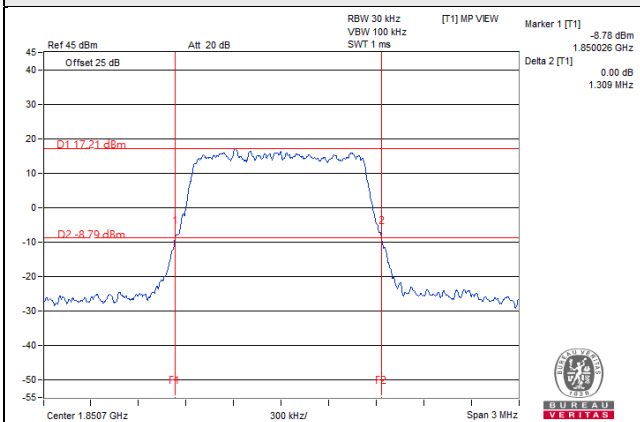
| Channel | Freq. (MHz) | -26dB Bandwidth (MHz) |
|---------|-------------|-----------------------|
| | | WCDMA B2 |
| 9262 | 1852.4 | 4.67 |
| 9400 | 1880.0 | 4.70 |
| 9538 | 1907.6 | 4.69 |



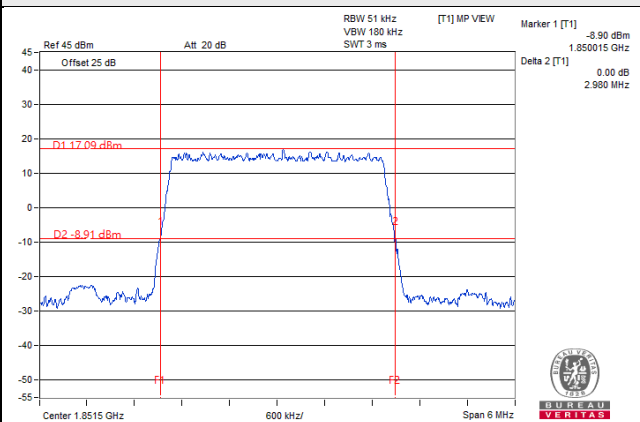
| LTE Band 2 | | | | | | | |
|--------------------------|-----------------|-----------------------|-------|-------------------------|-----------------|-----------------------|-------|
| Channel Bandwidth 1.4MHz | | | | Channel Bandwidth 3MHz | | | |
| Channel | Frequency (MHz) | -26dB Bandwidth (MHz) | | Channel | Frequency (MHz) | -26dB Bandwidth (MHz) | |
| | | QPSK | 16QAM | | | QPSK | 16QAM |
| 18607 | 1850.7 | 1.29 | 1.30 | 18615 | 1851.5 | 2.98 | 2.95 |
| 18900 | 1880 | 1.28 | 1.29 | 18900 | 1880 | 2.95 | 2.96 |
| 19193 | 1909.3 | 1.28 | 1.28 | 19185 | 1908.5 | 2.95 | 2.94 |
| Channel Bandwidth 5MHz | | | | Channel Bandwidth 10MHz | | | |
| Channel | Frequency (MHz) | -26dB Bandwidth (MHz) | | Channel | Frequency (MHz) | -26dB Bandwidth (MHz) | |
| | | QPSK | 16QAM | | | QPSK | 16QAM |
| 18625 | 1852.5 | 5.00 | 5.01 | 18650 | 1855 | 9.88 | 9.88 |
| 18900 | 1880 | 4.98 | 4.98 | 18900 | 1880 | 9.88 | 9.89 |
| 19175 | 1907.5 | 4.98 | 4.98 | 19150 | 1905 | 9.93 | 9.90 |
| Channel Bandwidth 15MHz | | | | Channel Bandwidth 20MHz | | | |
| Channel | Frequency (MHz) | -26dB Bandwidth (MHz) | | Channel | Frequency (MHz) | -26dB Bandwidth (MHz) | |
| | | QPSK | 16QAM | | | QPSK | 16QAM |
| 18675 | 1857.5 | 14.69 | 14.73 | 18700 | 1860 | 19.46 | 19.54 |
| 18900 | 1880 | 14.65 | 14.62 | 18900 | 1880 | 19.43 | 19.37 |
| 19125 | 1902.5 | 14.73 | 14.65 | 19100 | 1900 | 19.44 | 19.49 |

Spectrum Plot of Worst Value

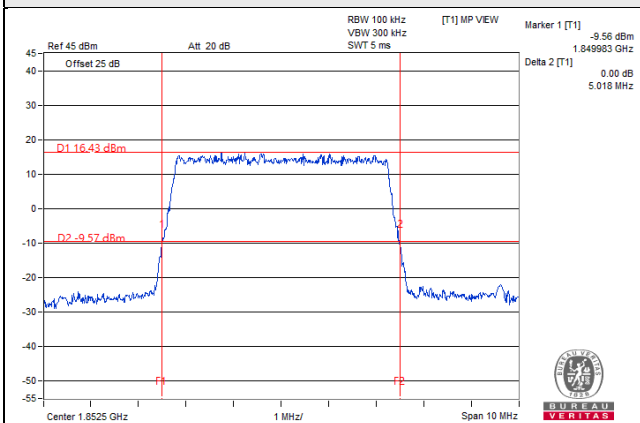
1.4MHz / 16QAM



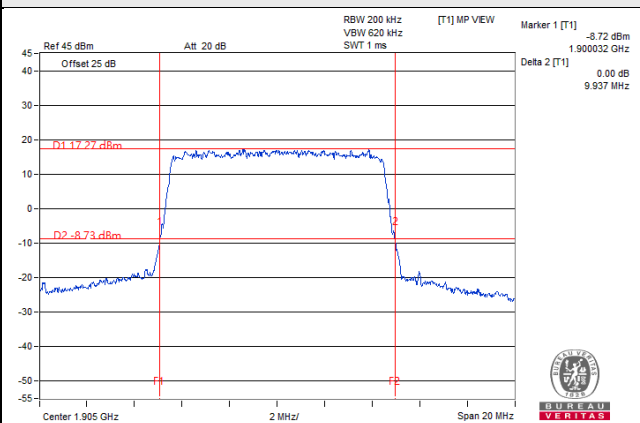
3MHz / QPSK



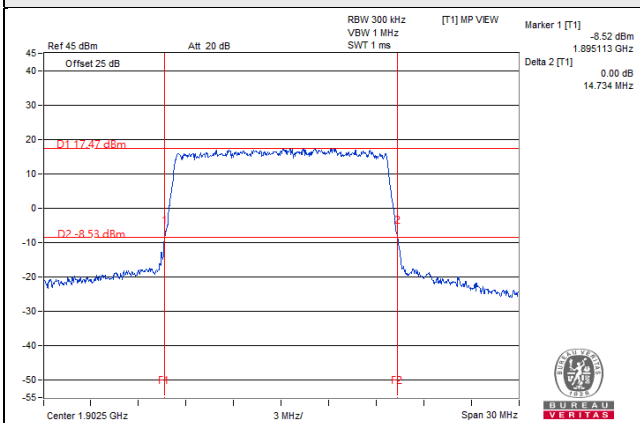
5MHz / 16QAM



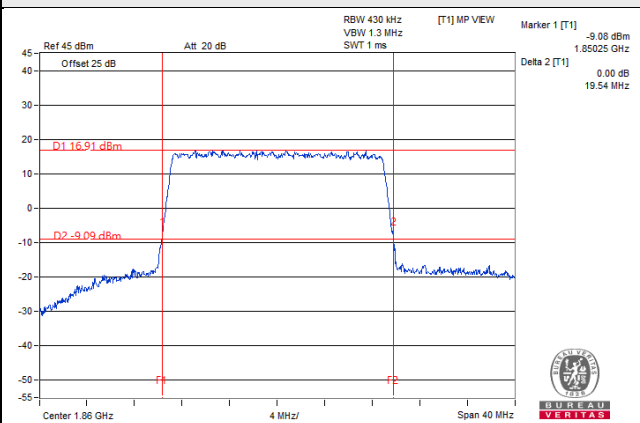
10MHz / QPSK



15MHz / QPSK

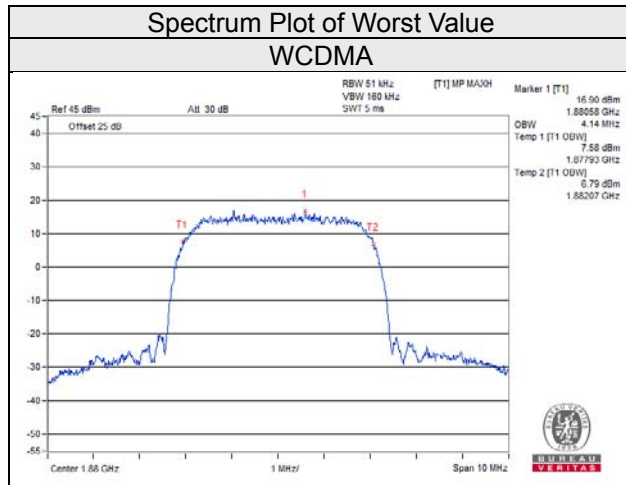


20MHz / 16QAM



4.4.4 Test Result (Occupied Bandwidth)

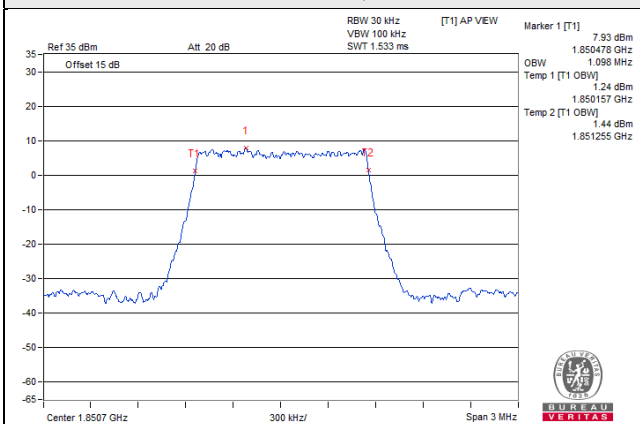
| Channel | Freq. (MHz) | 99% Occupied Bandwidth (MHz) |
|---------|-------------|------------------------------|
| | | WCDMA B2 |
| 9262 | 1852.4 | 4.13 |
| 9400 | 1880.0 | 4.14 |
| 9538 | 1907.6 | 4.13 |



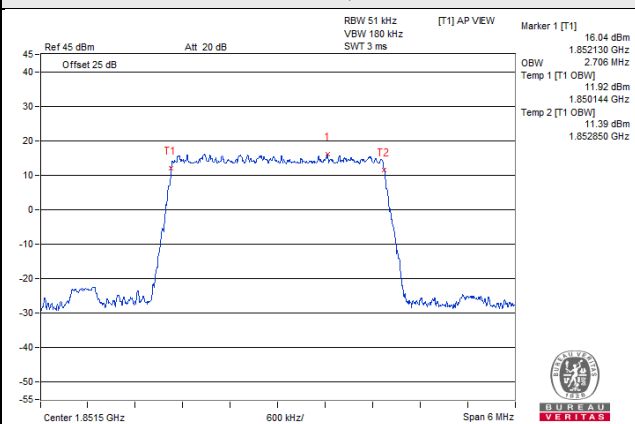
| LTE Band 2 | | | | | | | |
|--------------------------|-----------------|------------------------------|-------|-------------------------|-----------------|------------------------------|-------|
| Channel Bandwidth 1.4MHz | | | | Channel Bandwidth 3MHz | | | |
| Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | | Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | |
| | | QPSK | 16QAM | | | QPSK | 16QAM |
| 18607 | 1850.7 | 1.09 | 1.09 | 18615 | 1851.5 | 2.70 | 2.68 |
| 18900 | 1880 | 1.09 | 1.09 | 18900 | 1880 | 2.70 | 2.68 |
| 19193 | 1909.3 | 1.09 | 1.09 | 19185 | 1908.5 | 2.70 | 2.68 |
| Channel Bandwidth 5MHz | | | | Channel Bandwidth 10MHz | | | |
| Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | | Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | |
| | | QPSK | 16QAM | | | QPSK | 16QAM |
| 18625 | 1852.5 | 4.50 | 4.51 | 18650 | 1855 | 8.98 | 8.98 |
| 18900 | 1880 | 4.51 | 4.51 | 18900 | 1880 | 8.98 | 8.98 |
| 19175 | 1907.5 | 4.50 | 4.50 | 19150 | 1905 | 8.96 | 9.00 |
| Channel Bandwidth 15MHz | | | | Channel Bandwidth 20MHz | | | |
| Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | | Channel | Frequency (MHz) | 99% Occupied Bandwidth (MHz) | |
| | | QPSK | 16QAM | | | QPSK | 16QAM |
| 18675 | 1857.5 | 13.47 | 13.44 | 18700 | 1860 | 18.00 | 17.92 |
| 18900 | 1880 | 13.44 | 13.41 | 18900 | 1880 | 17.96 | 17.84 |
| 19125 | 1902.5 | 13.47 | 13.44 | 19100 | 1900 | 17.96 | 17.88 |

Spectrum Plot of Worst Value

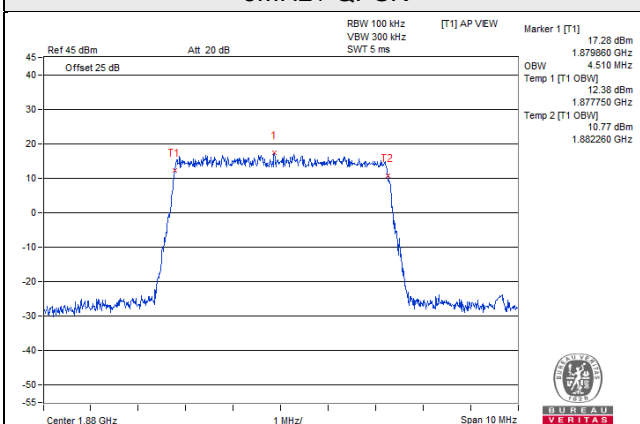
1.4MHz / QPSK



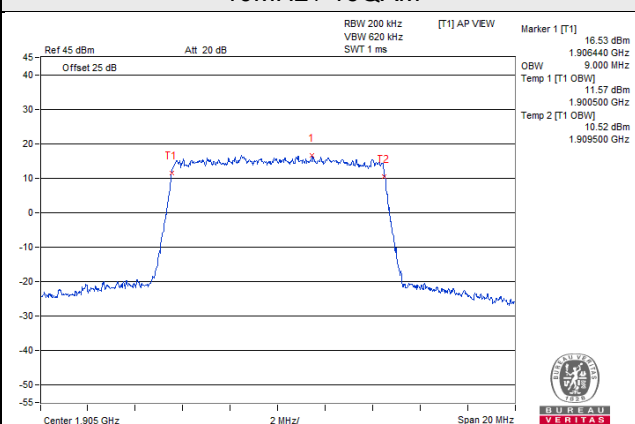
3MHz / QPSK



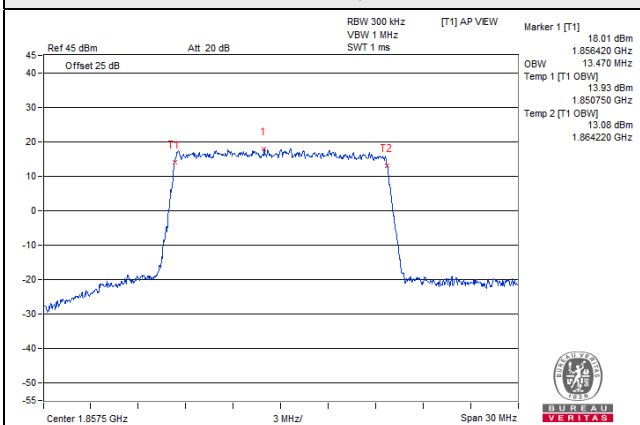
5MHz / QPSK



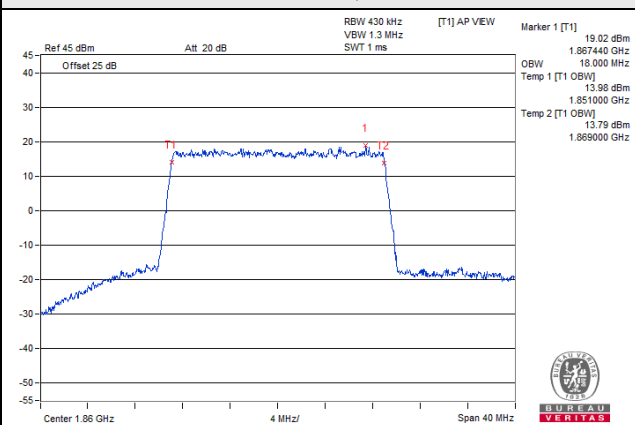
10MHz / 16QAM



15MHz / QPSK



20MHz / QPSK

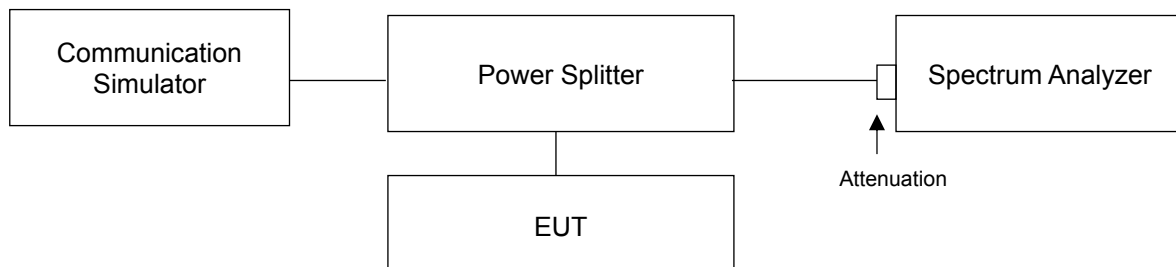


4.5 Band Edge Measurement

4.5.1 Limits of Band Edge Measurement

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

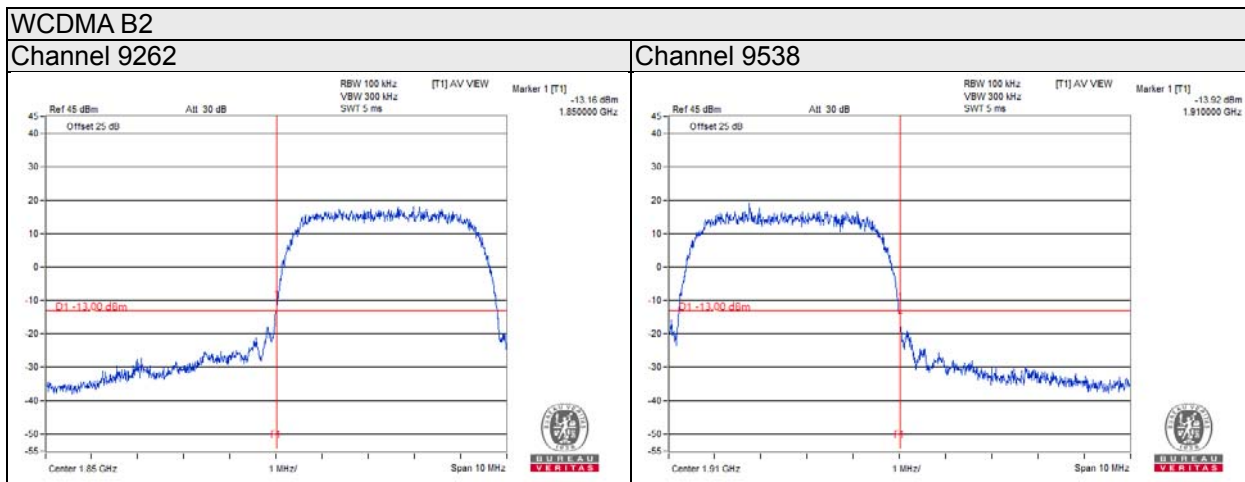
4.5.2 Test Setup



4.5.3 Test Procedures

- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and RB of the spectrum is $>1\%$ emission bandwidth and VB of the spectrum is $\geq 3*RB$.
- Record the max trace plot into the test report.

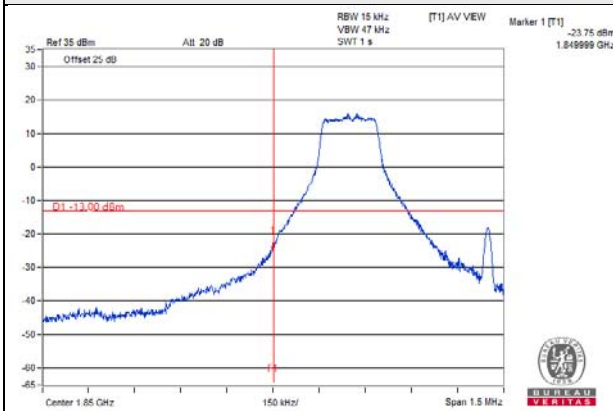
4.5.4 Test Results



LTE Band 2 Channel Bandwidth: 1.4MHz

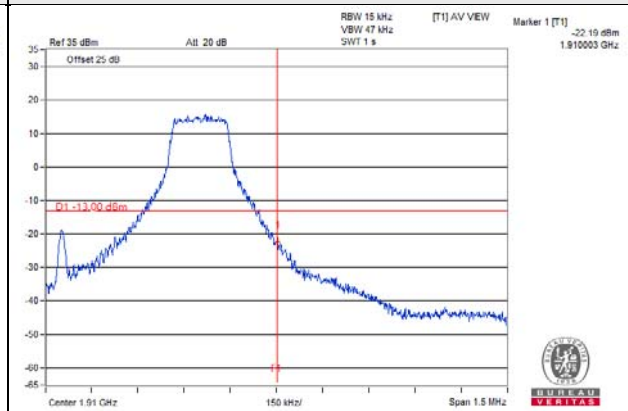
Channel 18607

1 RB

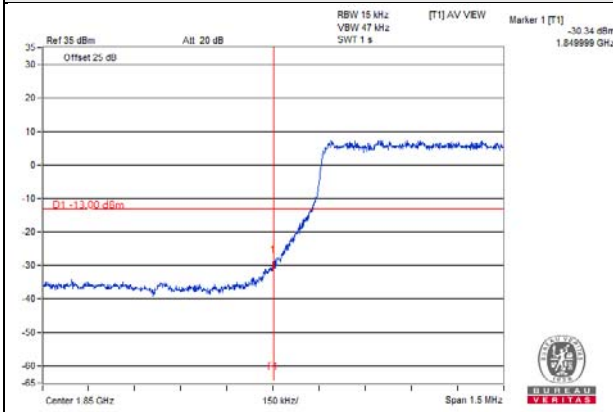


Channel 19193

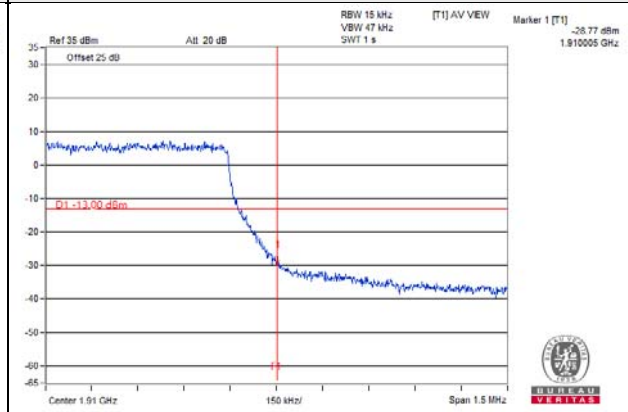
1 RB



6 RB



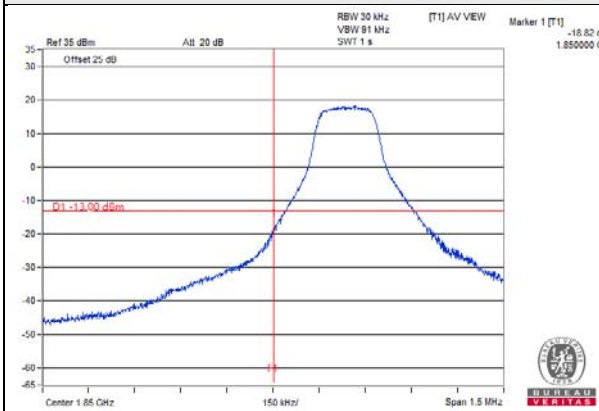
6 RB



LTE Band 2 Channel Bandwidth: 3MHz

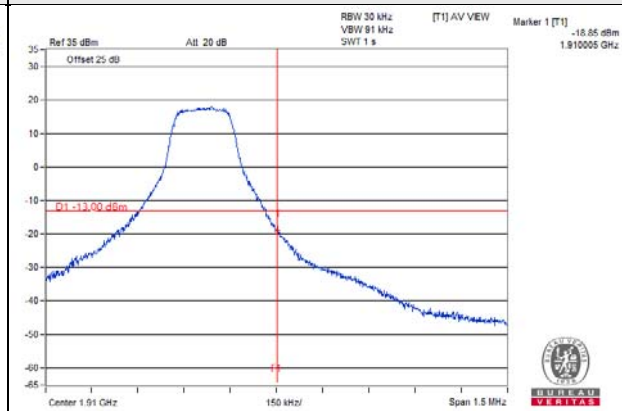
Channel 18615

1 RB

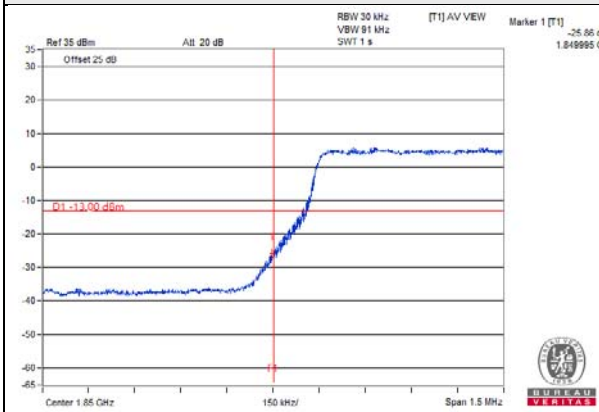


Channel 19185

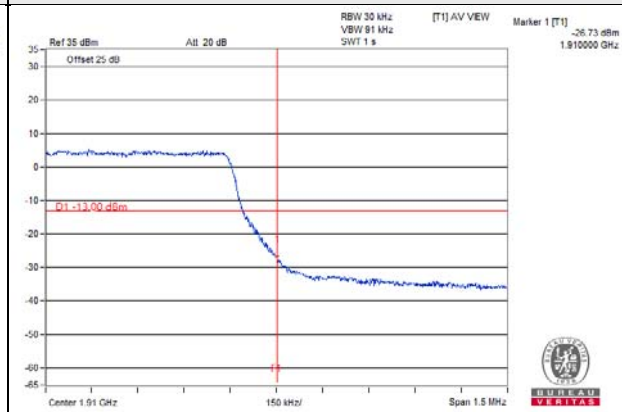
1 RB



15 RB



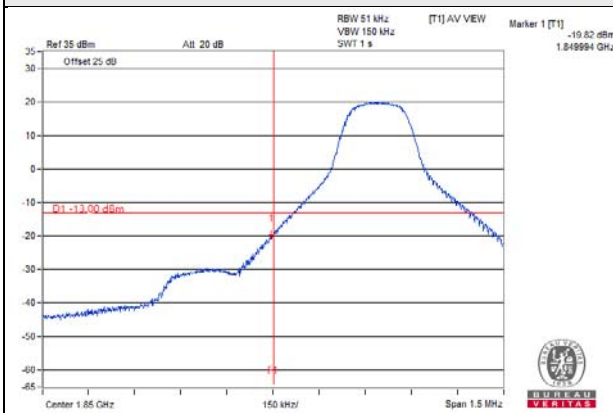
15 RB



LTE Band 2 Channel Bandwidth: 5MHz

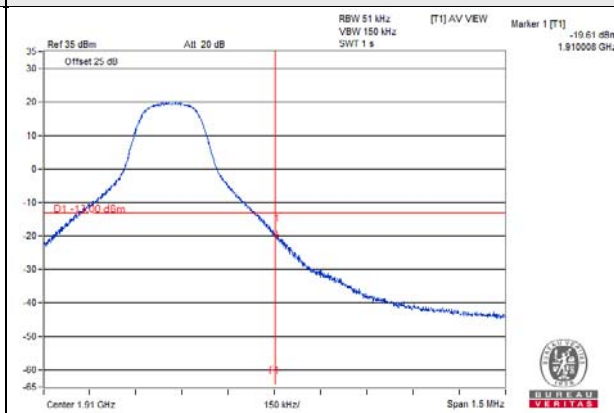
Channel 18625

1 RB

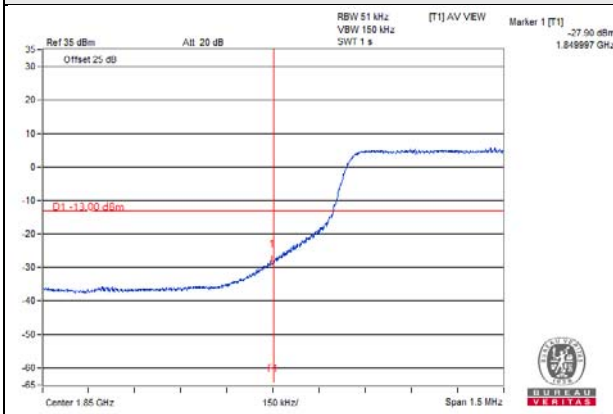


Channel 19175

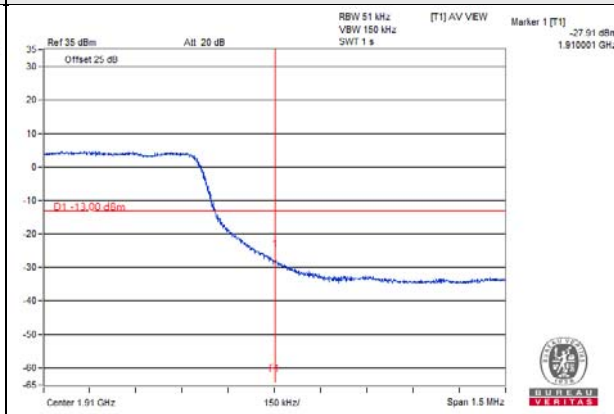
1 RB



25 RB



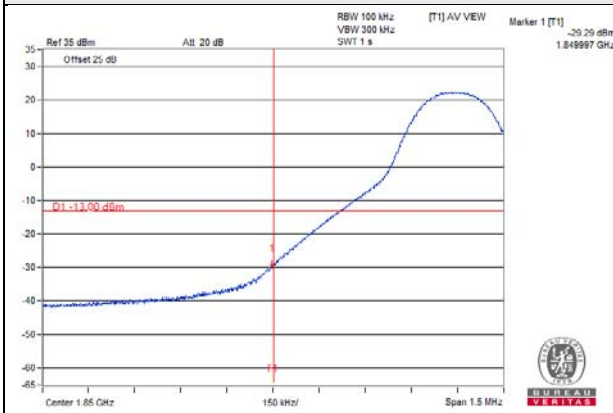
25 RB



LTE Band 2 Channel Bandwidth: 10MHz

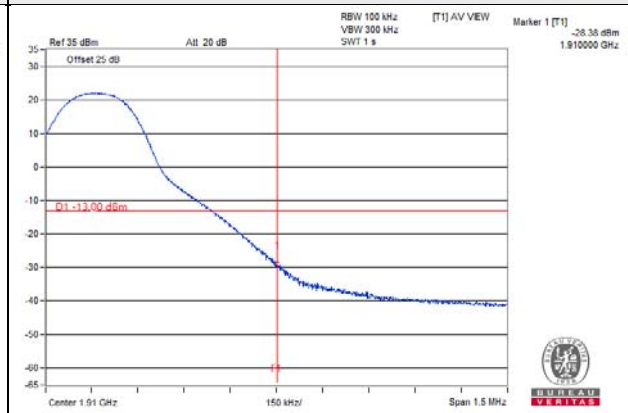
Channel 18650

1 RB

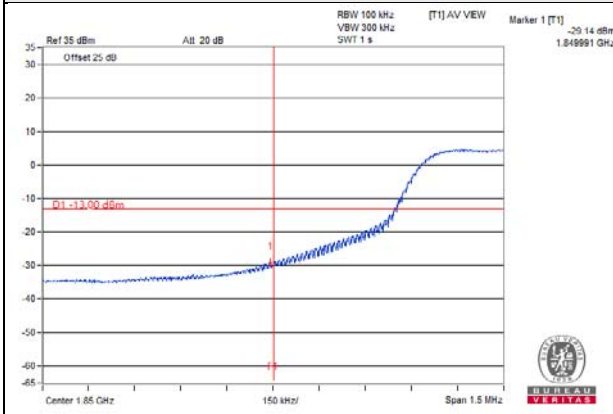


Channel 19150

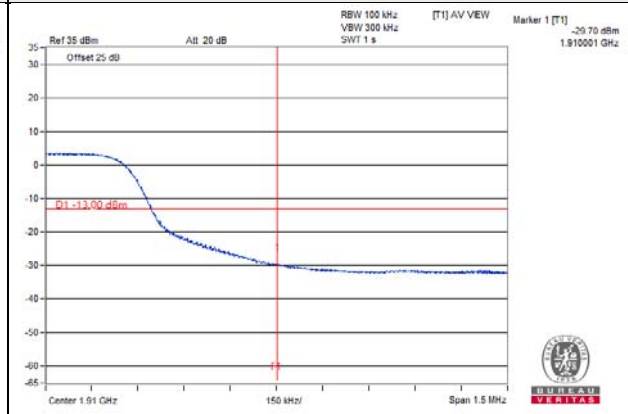
1 RB



50 RB



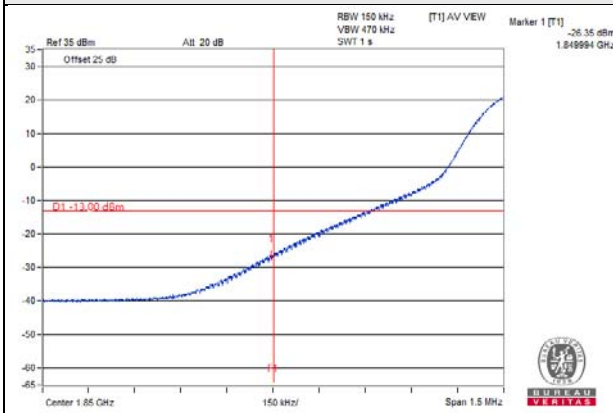
50 RB



LTE Band 2 Channel Bandwidth: 15MHz

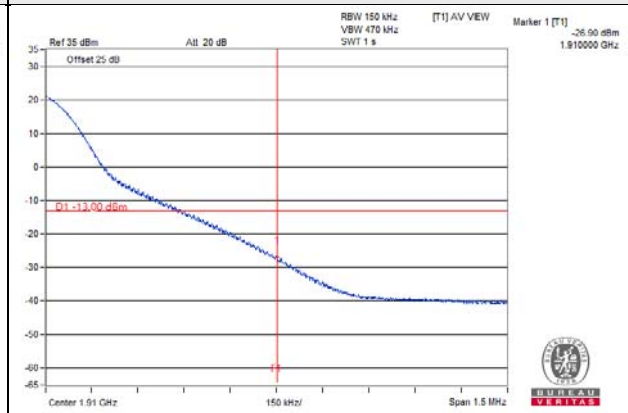
Channel 18675

1 RB

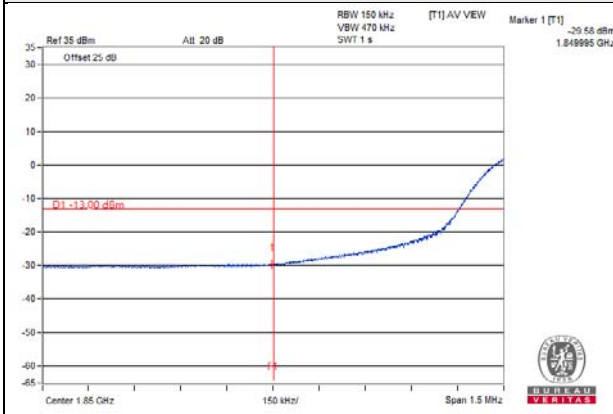


Channel 19125

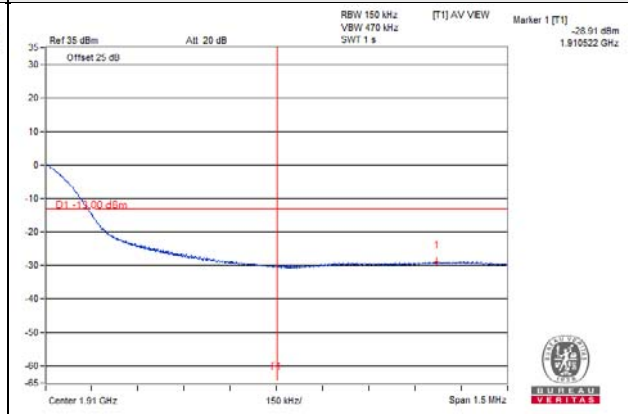
1 RB



75 RB



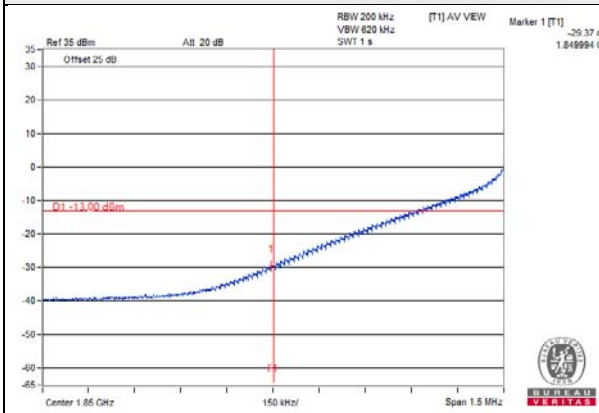
75 RB



LTE Band 2 Channel Bandwidth: 20MHz

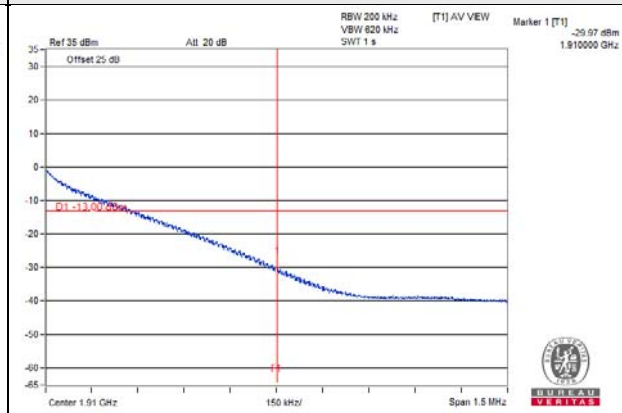
Channel 18700

1 RB

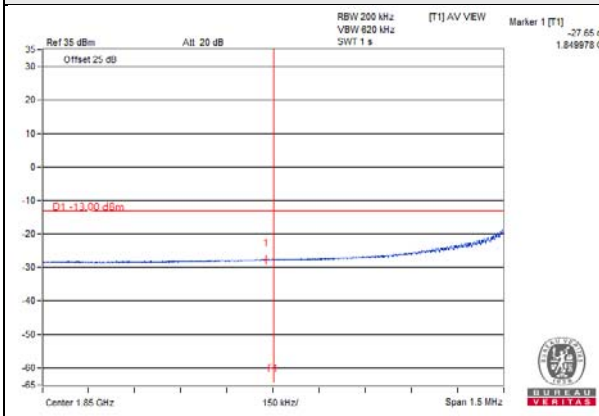


Channel 19100

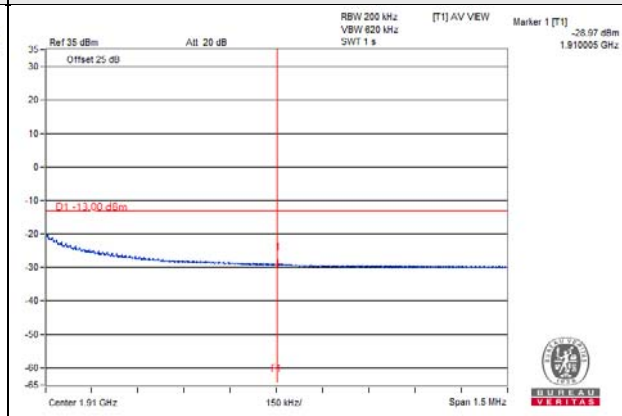
1 RB



100 RB



100 RB

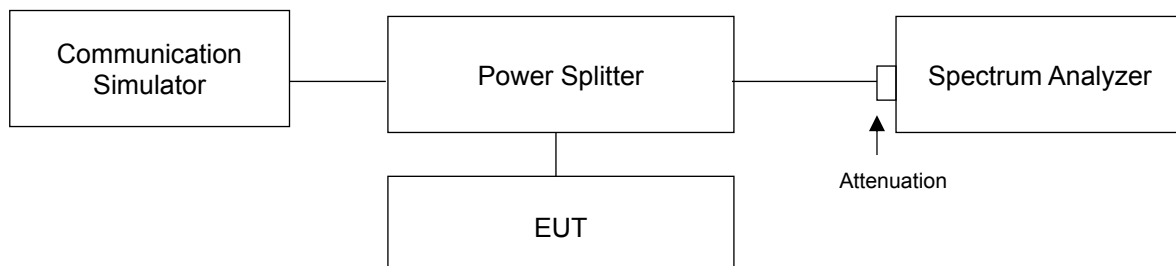


4.6 Peak to Average Ratio

4.5.1 Limits of Peak to Average Ratio Measurement

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

4.5.2 Test Setup

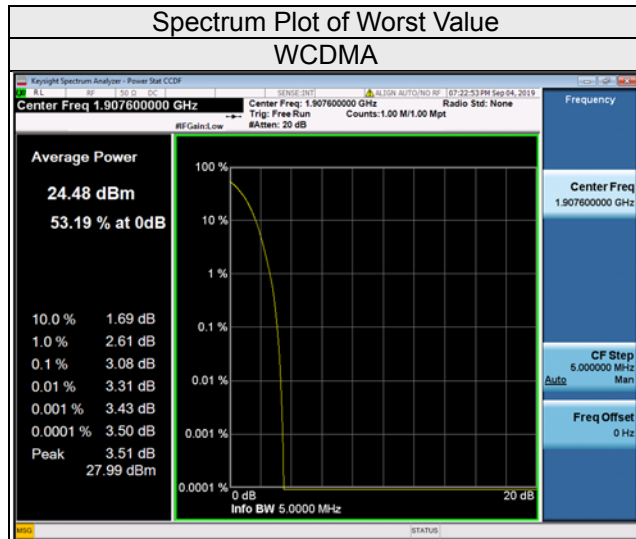


4.5.3 Test Procedures

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

4.5.4 Test Results

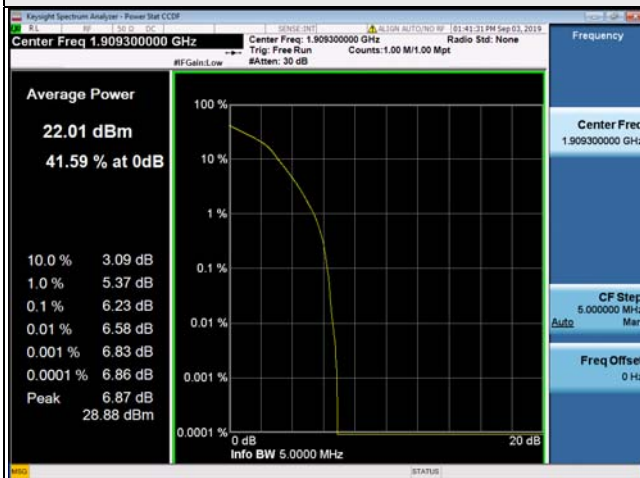
| Channel | Freq. (MHz) | Peak to Average Ratio (dB) |
|---------|-------------|----------------------------|
| | | WCDMA B2 |
| 9262 | 1852.4 | 2.91 |
| 9400 | 1880 | 2.94 |
| 9538 | 1907.6 | 3.08 |



| LTE Band 2 | | | | | | | |
|--------------------------|-----------------|----------------------------|-------|-------------------------|-----------------|----------------------------|-------|
| Channel Bandwidth 1.4MHz | | | | Channel Bandwidth 3MHz | | | |
| Channel | Frequency (MHz) | Peak To Average Ratio (dB) | | Channel | Frequency (MHz) | Peak To Average Ratio (dB) | |
| | | QPSK | 16QAM | | | QPSK | 16QAM |
| 18607 | 1850.7 | 5.11 | 5.91 | 18615 | 1851.5 | 5.12 | 5.99 |
| 18900 | 1880 | 5.25 | 6.07 | 18900 | 1880 | 5.28 | 6.17 |
| 19193 | 1909.3 | 5.41 | 6.23 | 19185 | 1908.5 | 5.46 | 6.39 |
| Channel Bandwidth 5MHz | | | | Channel Bandwidth 10MHz | | | |
| Channel | Frequency (MHz) | Peak To Average Ratio (dB) | | Channel | Frequency (MHz) | Peak To Average Ratio (dB) | |
| | | QPSK | 16QAM | | | QPSK | 16QAM |
| 18625 | 1852.5 | 5.20 | 6.04 | 18650 | 1855 | 5.21 | 6.11 |
| 18900 | 1880 | 5.30 | 6.17 | 18900 | 1880 | 5.26 | 6.10 |
| 19175 | 1907.5 | 5.43 | 6.38 | 19150 | 1905 | 5.4 | 6.38 |
| Channel Bandwidth 15MHz | | | | Channel Bandwidth 20MHz | | | |
| Channel | Frequency (MHz) | Peak To Average Ratio (dB) | | Channel | Frequency (MHz) | Peak To Average Ratio (dB) | |
| | | QPSK | 16QAM | | | QPSK | 16QAM |
| 18675 | 1857.5 | 5.54 | 6.19 | 18700 | 1860 | 5.45 | 6.25 |
| 18900 | 1880 | 5.43 | 6.11 | 18900 | 1880 | 5.22 | 6.10 |
| 19125 | 1902.5 | 5.62 | 6.36 | 19100 | 1900 | 5.47 | 6.31 |

Spectrum Plot of Worst Value

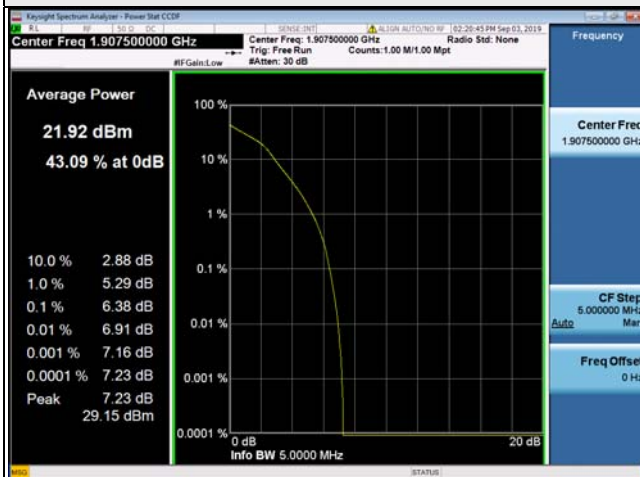
1.4MHz / 16QAM



3MHz / 16QAM



5MHz / 16QAM



10MHz / 16QAM



15MHz / 16QAM



20MHz / 16QAM

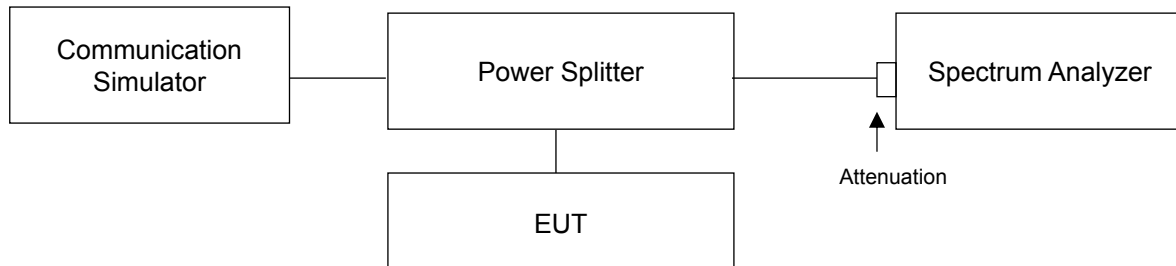


4.7 Conducted Spurious Emissions

4.7.1 Limits of Conducted Spurious Emissions Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

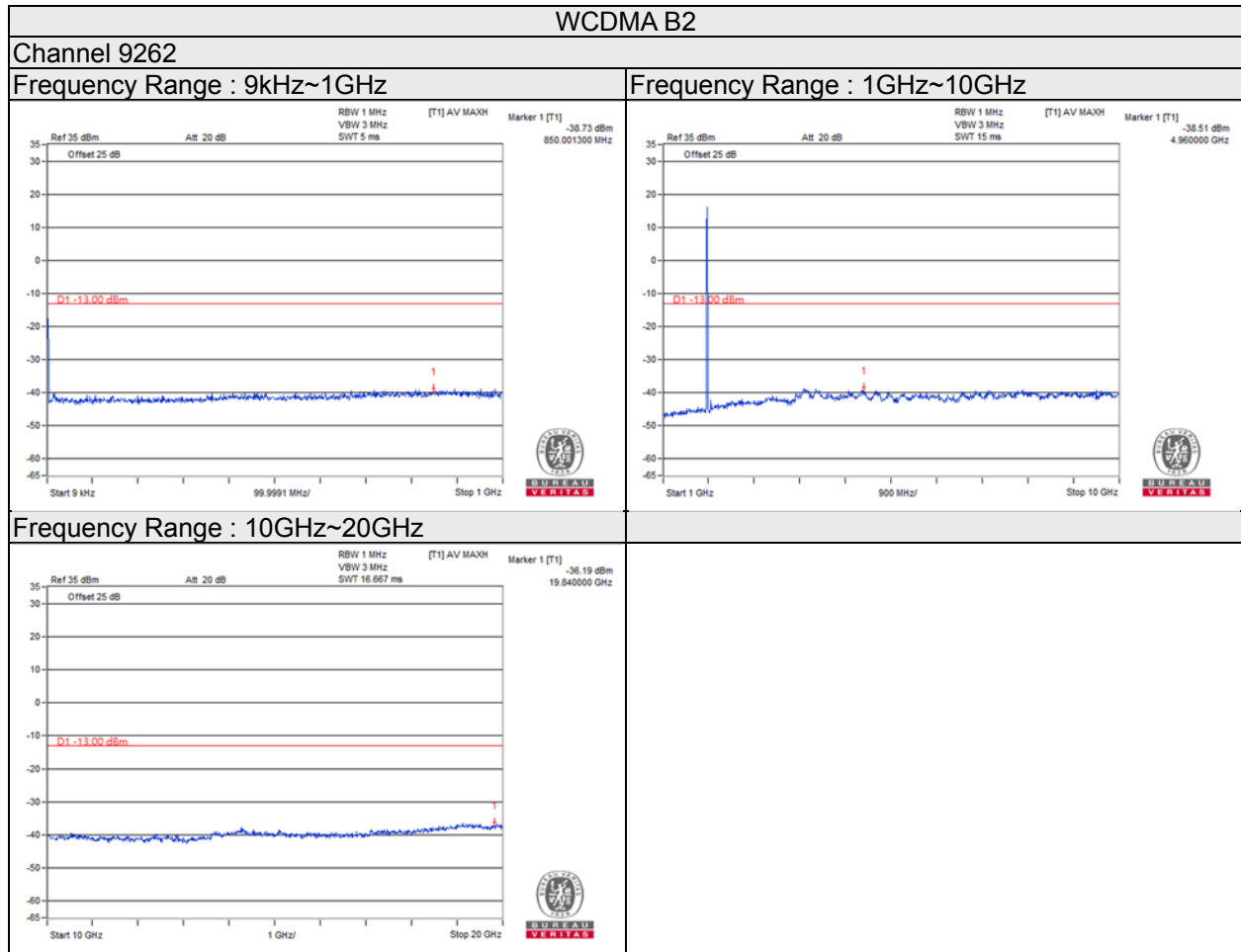
4.7.2 Test Setup



4.7.3 Test Procedure

- All measurements were done at middle operational frequency range.
- Measuring frequency range is from 9 kHz to the tenth harmonic of the highest fundamental frequency, it shall be connected to the pad attenuated the carried frequency.
RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

4.7.4 Test Results

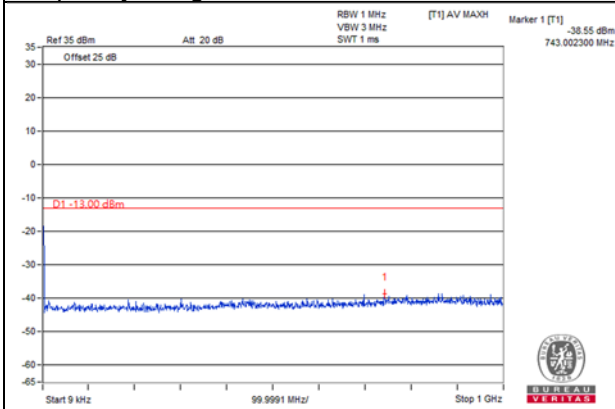


Note: The signal of 9kHz is IF signal from test instrument.

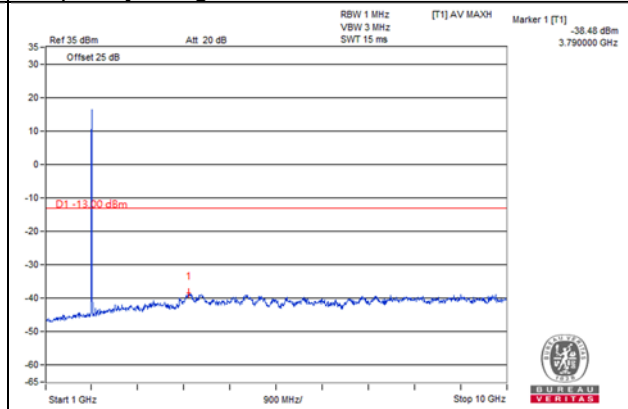
WCDMA B2

Channel 9400

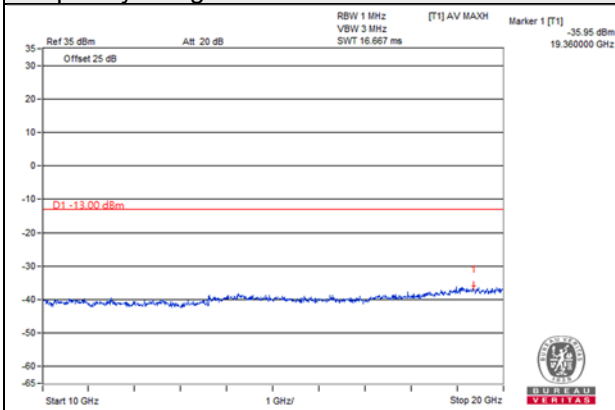
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

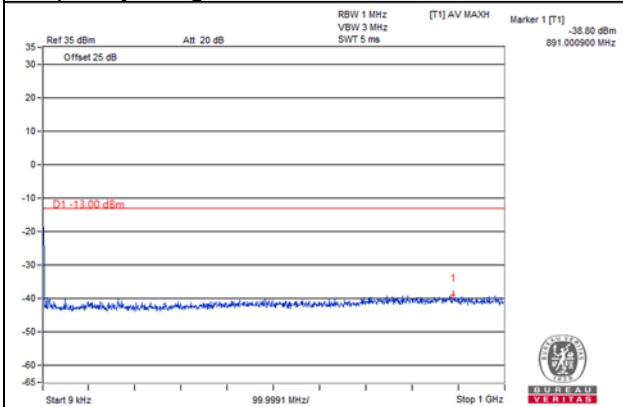


Note: The signal of 9kHz is IF signal from test instrument.

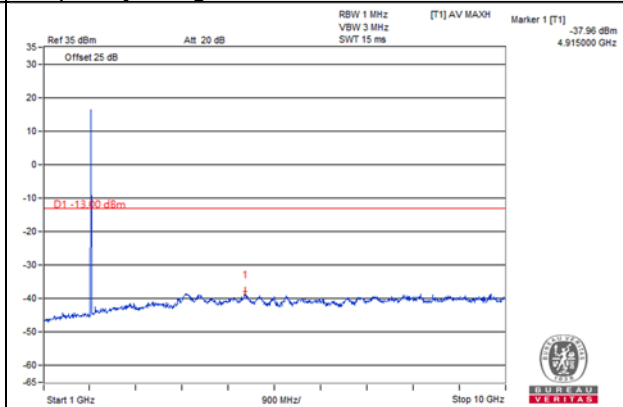
WCDMA B2

Channel 9538

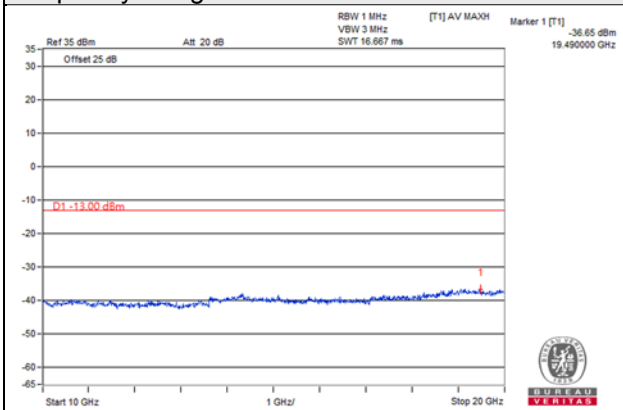
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz~10GHz



Frequency Range : 10GHz~20GHz

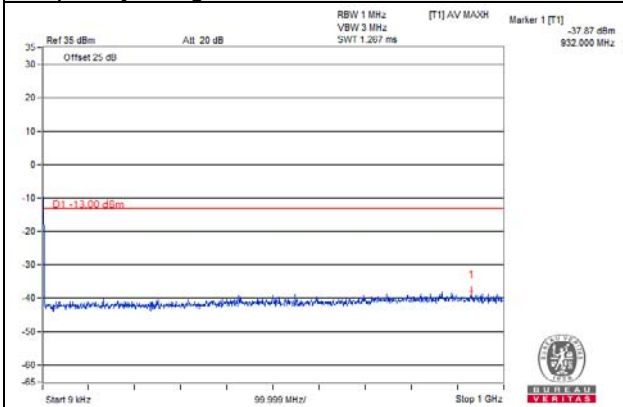


Note: The signal of 9kHz is IF signal from test instrument.

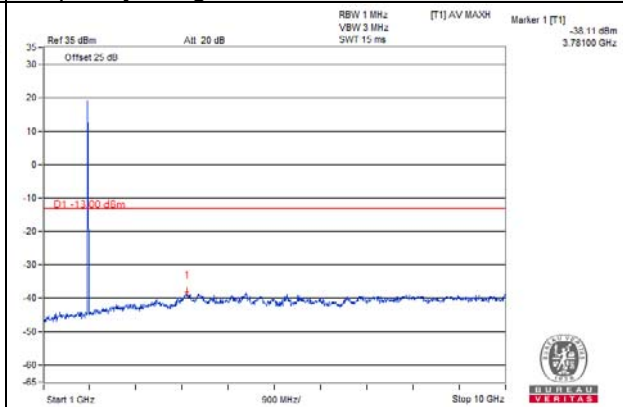
LTE Band 2 Channel Bandwidth: 1.4MHz

Channel 18607

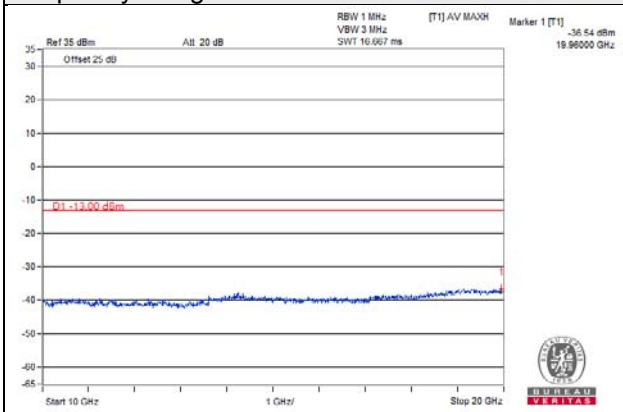
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

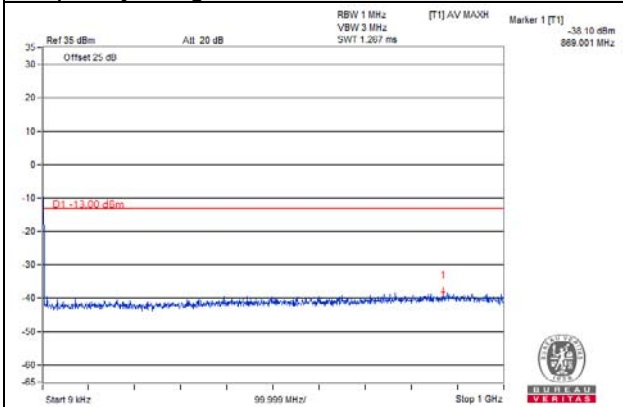


Note: The signal of 9kHz is IF signal from test instrument.

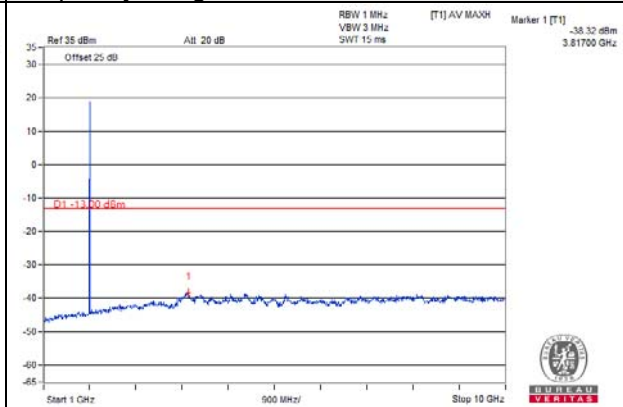
LTE Band 2 Channel Bandwidth: 1.4MHz

Channel 18900

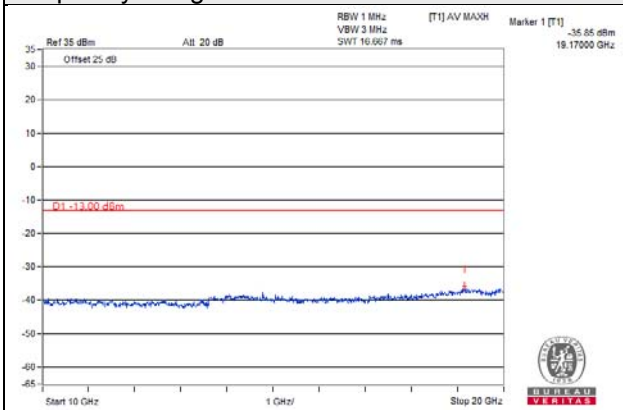
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



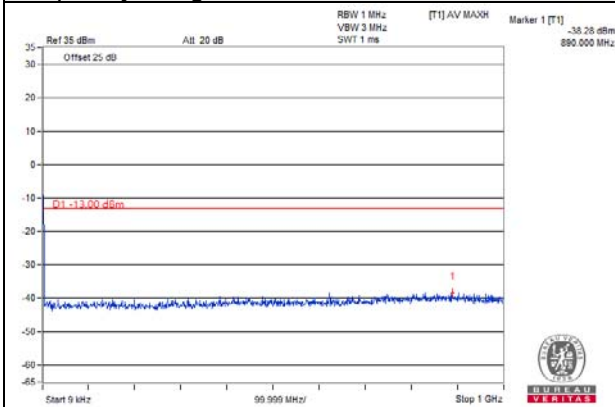
Frequency Range : 10GHz~20GHz



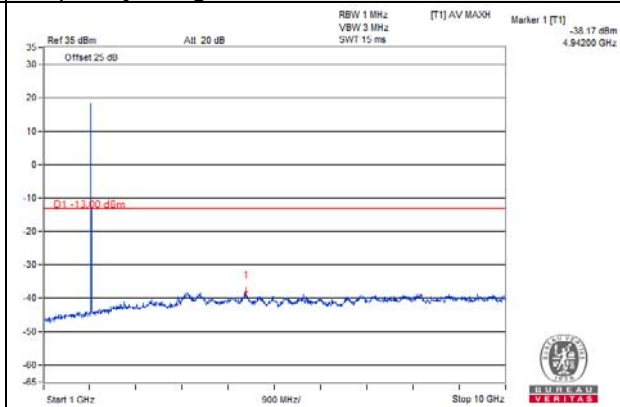
Note: The signal of 9kHz is IF signal from test instrument.

LTE Band 2 Channel Bandwidth: 1.4MHz
Channel 19193

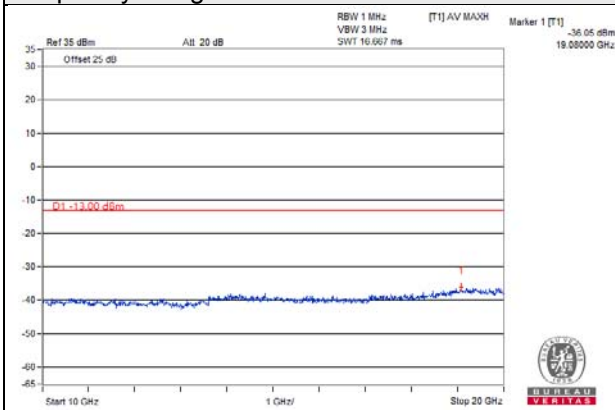
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

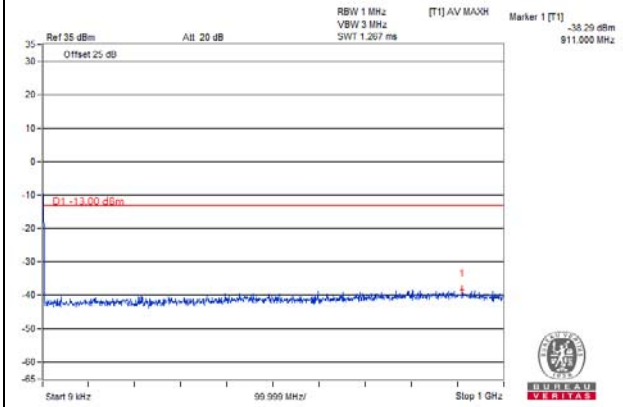


Note: The signal of 9kHz is IF signal from test instrument.

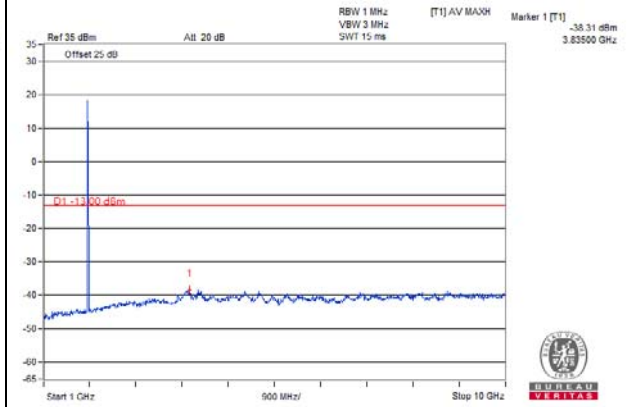
LTE Band 2 Channel Bandwidth: 3MHz

Channel 18615

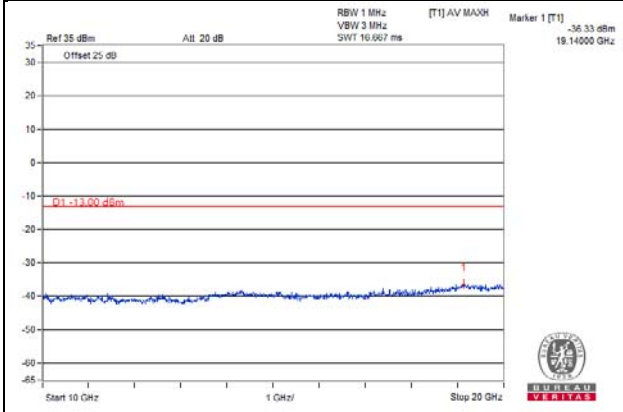
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



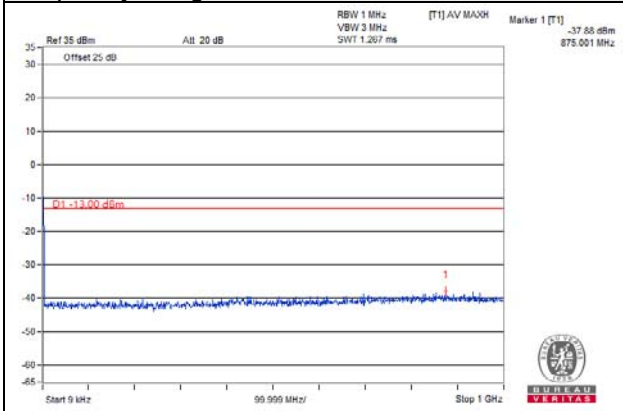
Frequency Range : 10GHz~20GHz



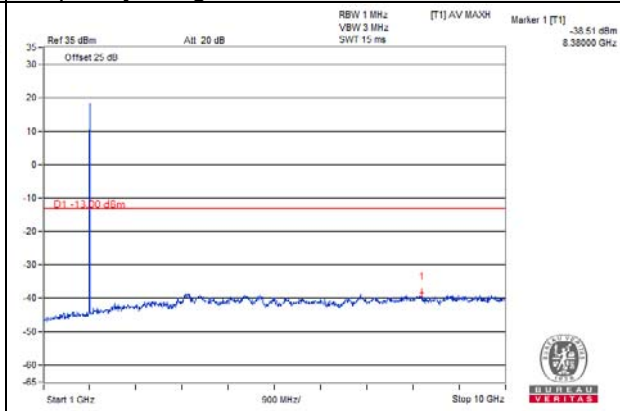
Note: The signal of 9kHz is IF signal from test instrument.

LTE Band 2 Channel Bandwidth: 3MHz
Channel 18900

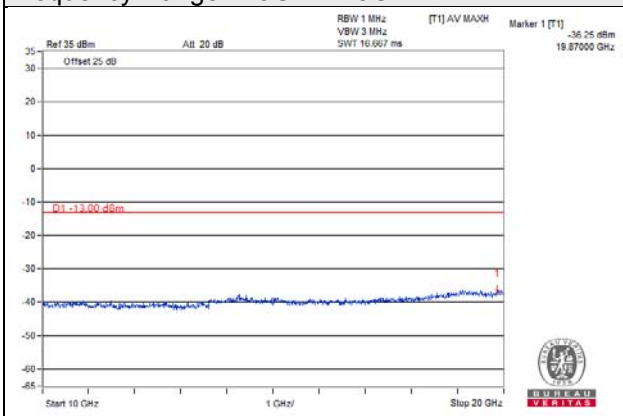
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

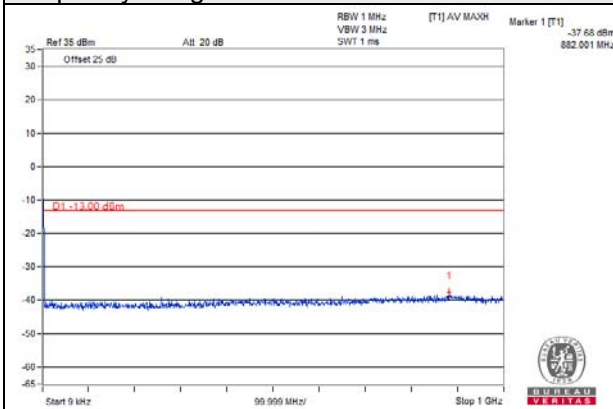


Note: The signal of 9kHz is IF signal from test instrument.

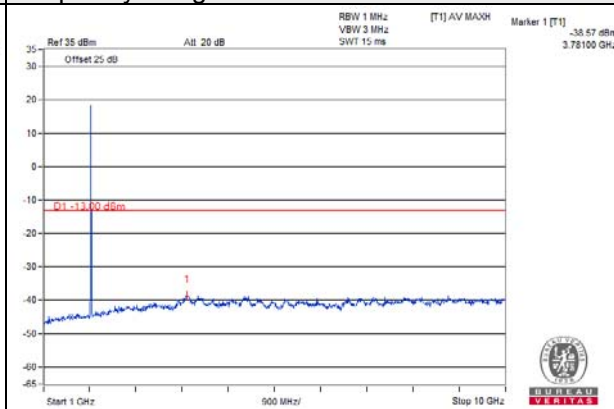
LTE Band 2 Channel Bandwidth: 3MHz

Channel 19185

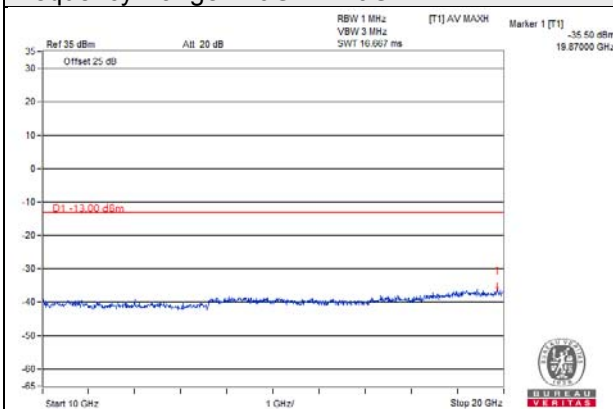
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

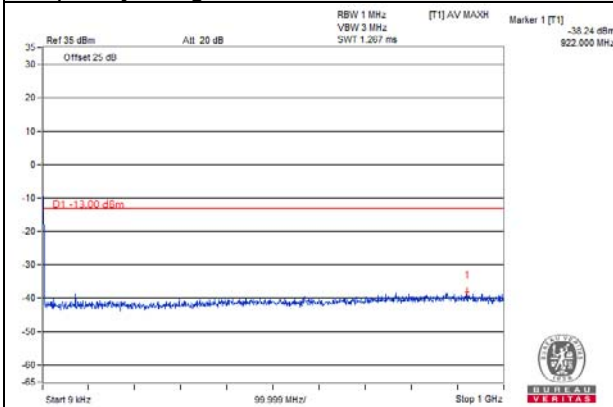


Note: The signal of 9kHz is IF signal from test instrument.

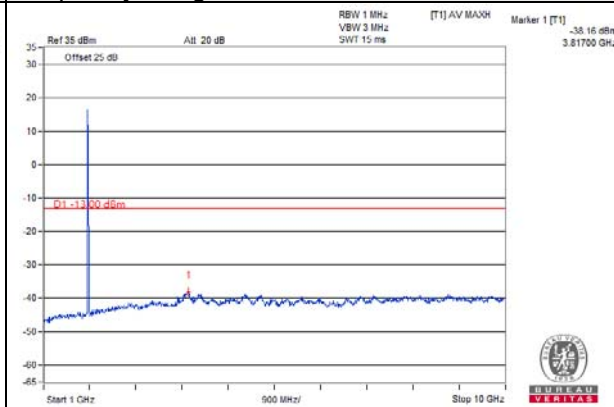
LTE Band 2 Channel Bandwidth: 5MHz

Channel 18625

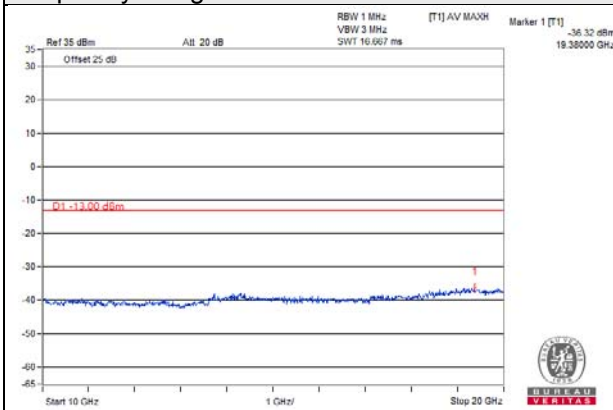
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

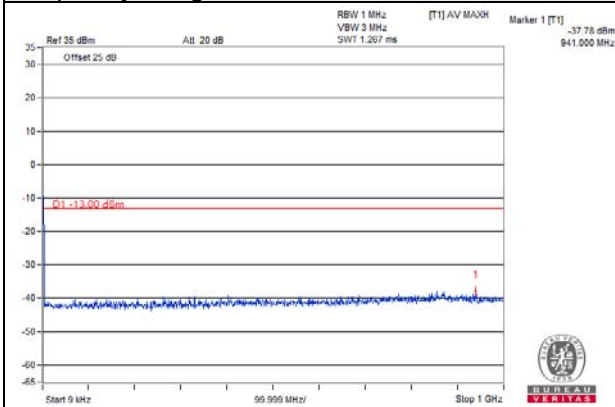


Note: The signal of 9kHz is IF signal from test instrument.

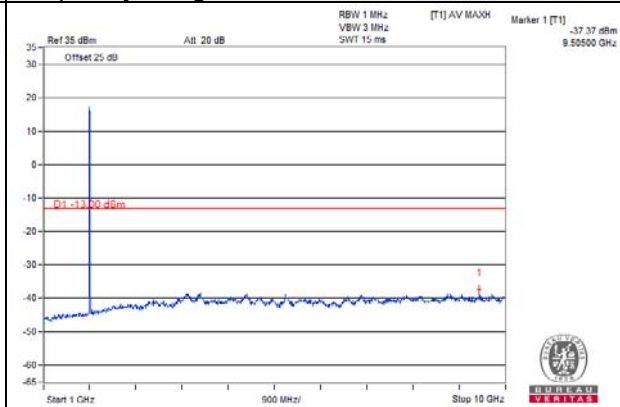
LTE Band 2 Channel Bandwidth: 5MHz

Channel 18900

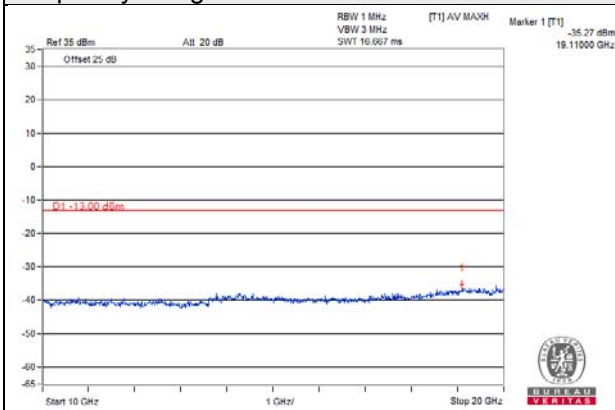
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

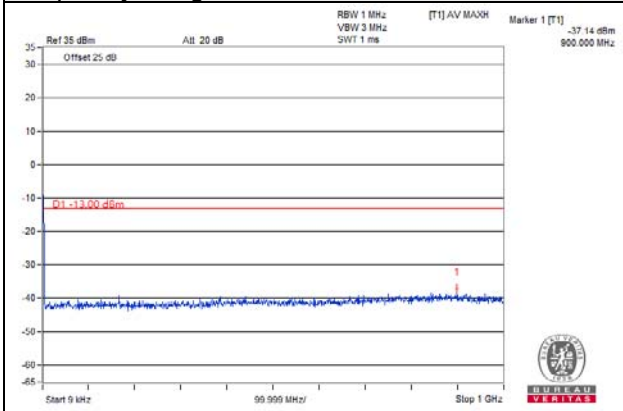


Note: The signal of 9kHz is IF signal from test instrument.

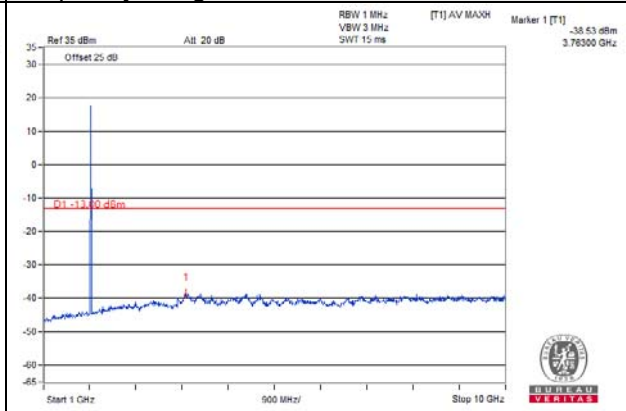
LTE Band 2 Channel Bandwidth: 5MHz

Channel 19175

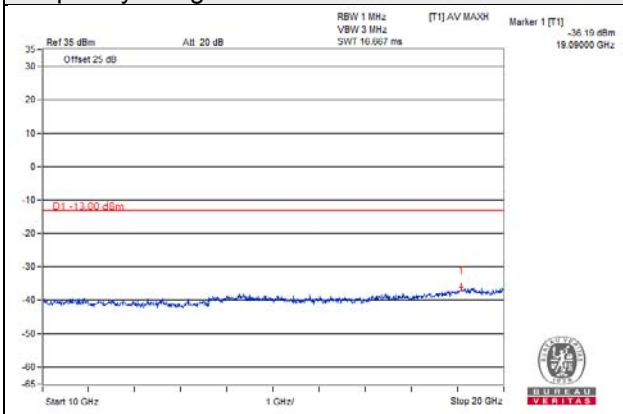
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

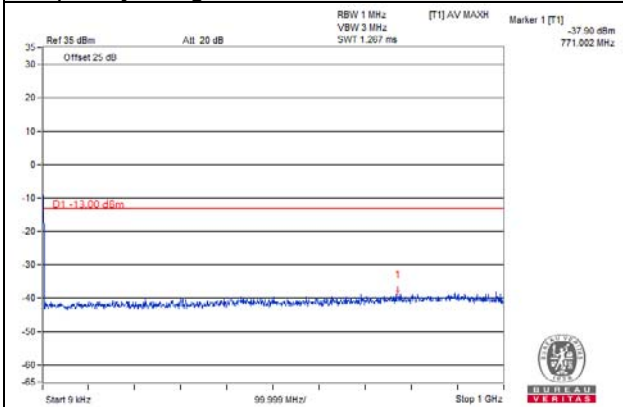


Note: The signal of 9kHz is IF signal from test instrument.

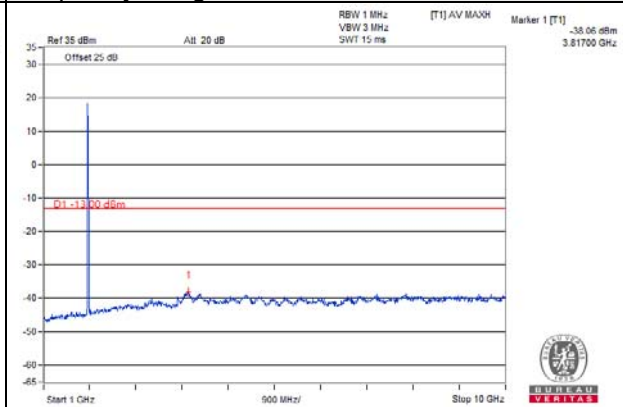
LTE Band 2 Channel Bandwidth: 10MHz

Channel 18650

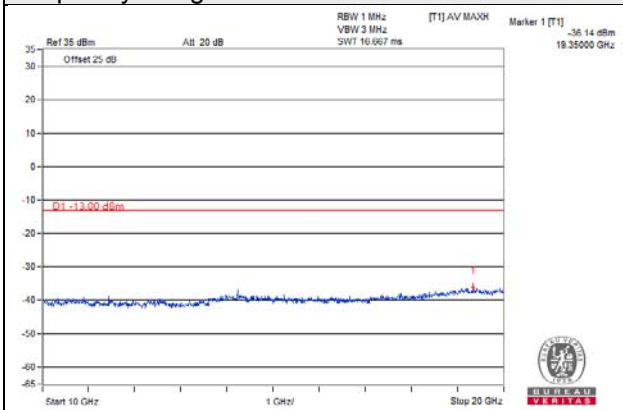
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



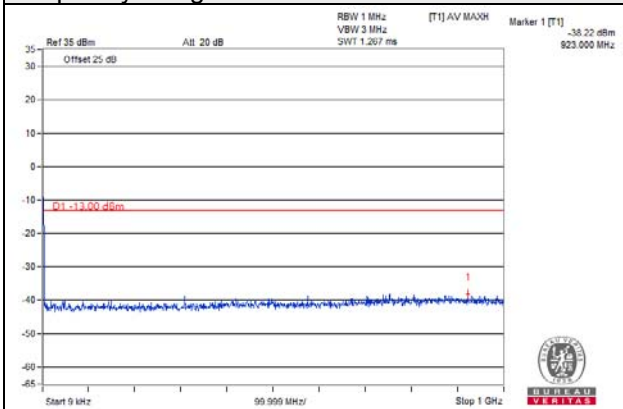
Frequency Range : 10GHz~20GHz



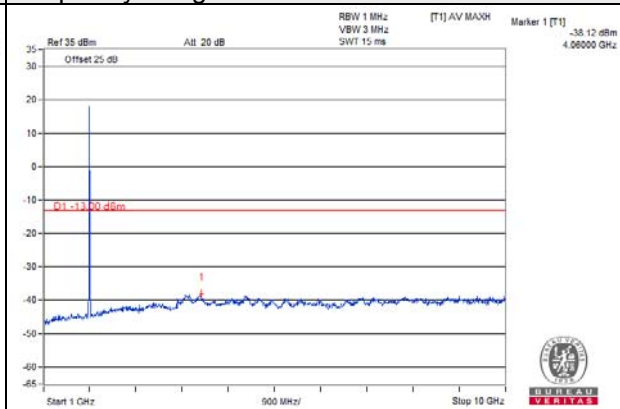
Note: The signal of 9kHz is IF signal from test instrument.

**LTE Band 2 Channel Bandwidth: 10MHz
Channel 18900**

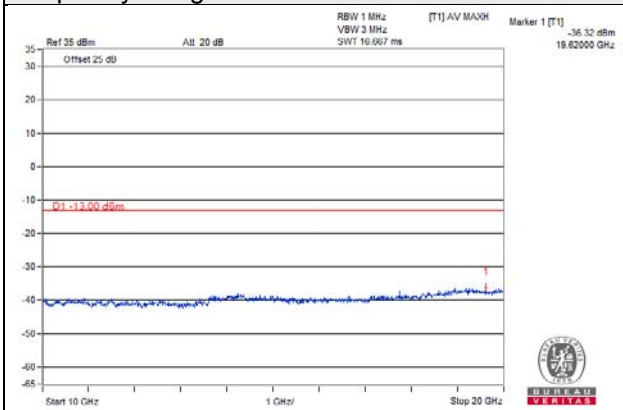
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

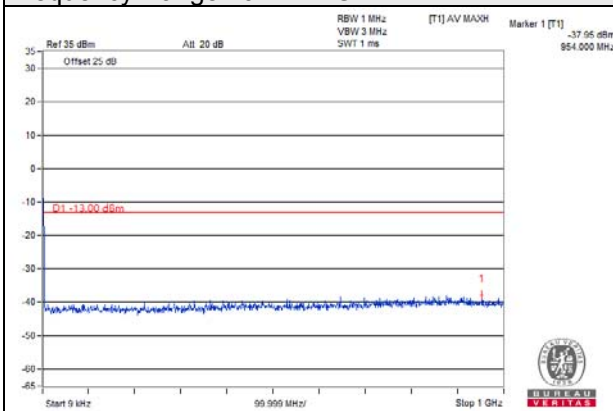


Note: The signal of 9kHz is IF signal from test instrument.

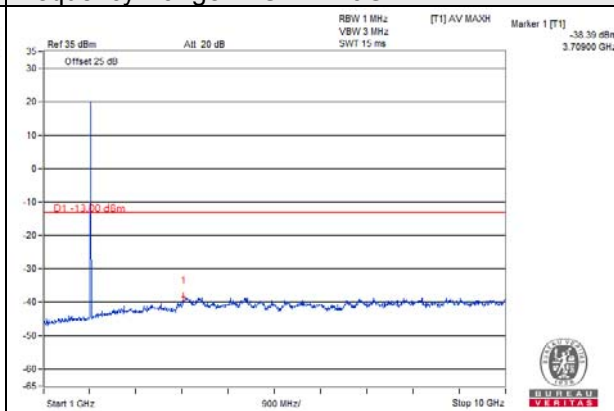
LTE Band 2 Channel Bandwidth: 10MHz

Channel 19150

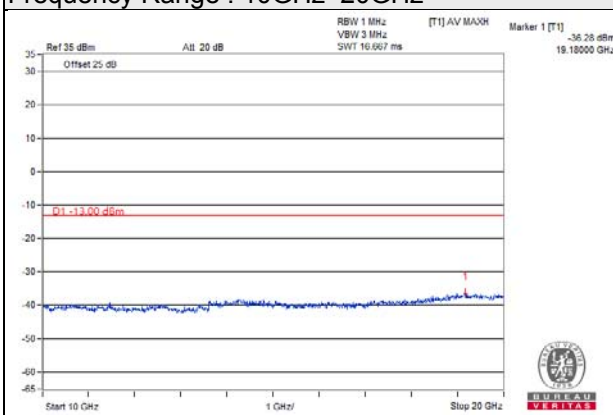
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

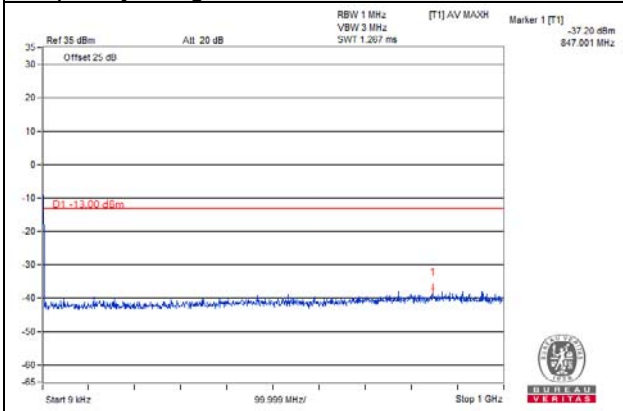


Note: The signal of 9kHz is IF signal from test instrument.

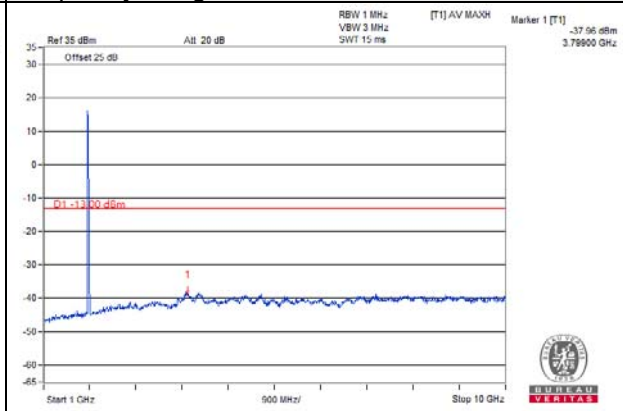
LTE Band 2 Channel Bandwidth: 15MHz

Channel 18675

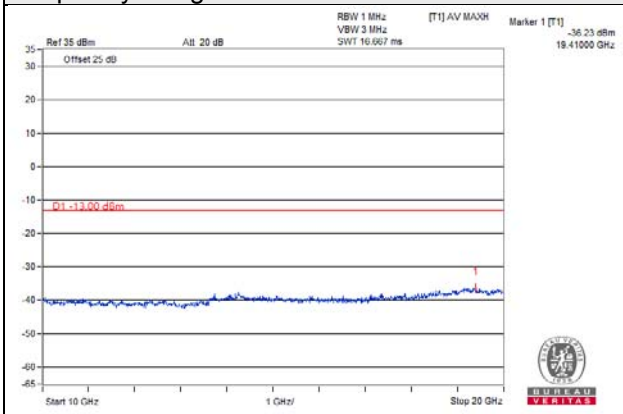
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

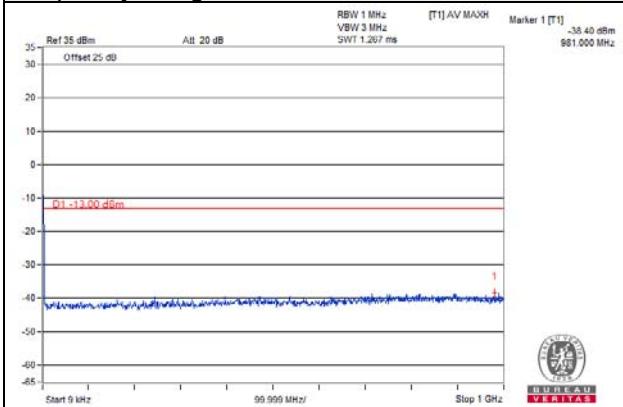


Note: The signal of 9kHz is IF signal from test instrument.

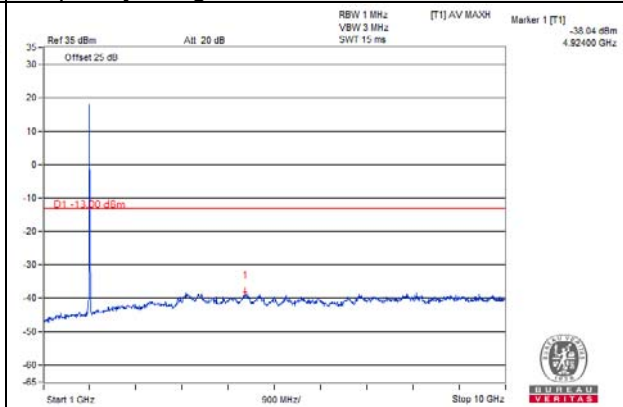
LTE Band 2 Channel Bandwidth: 15MHz

Channel 18900

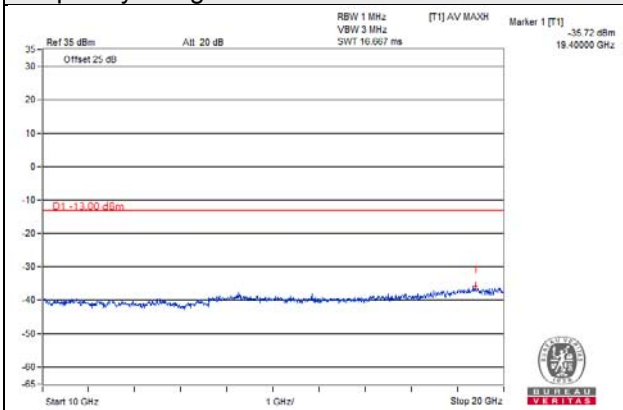
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



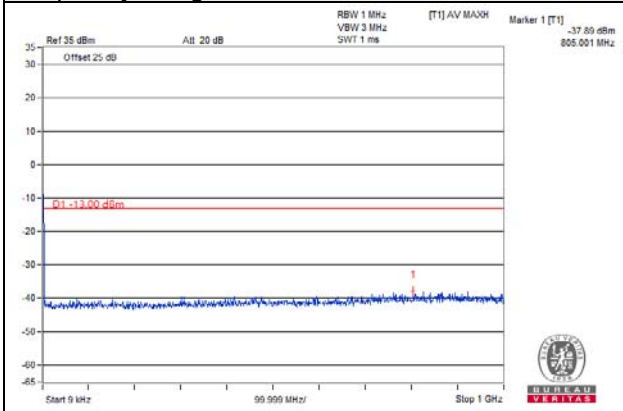
Frequency Range : 10GHz~20GHz



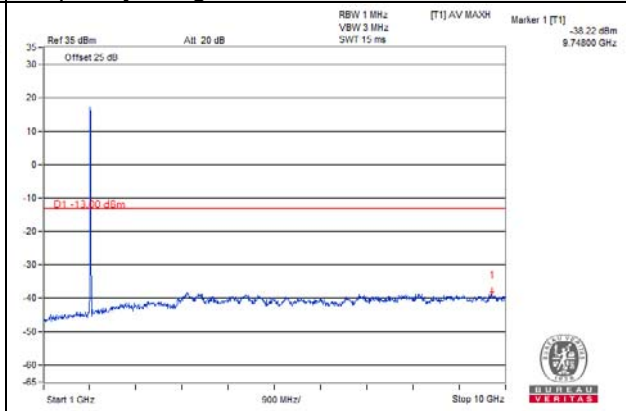
Note: The signal of 9kHz is IF signal from test instrument.

LTE Band 2 Channel Bandwidth: 15MHz
Channel 19125

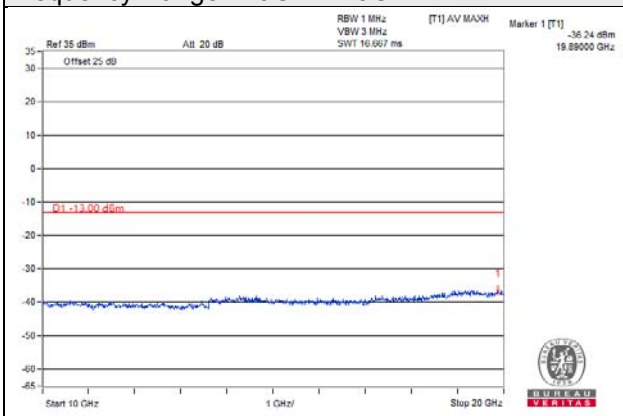
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



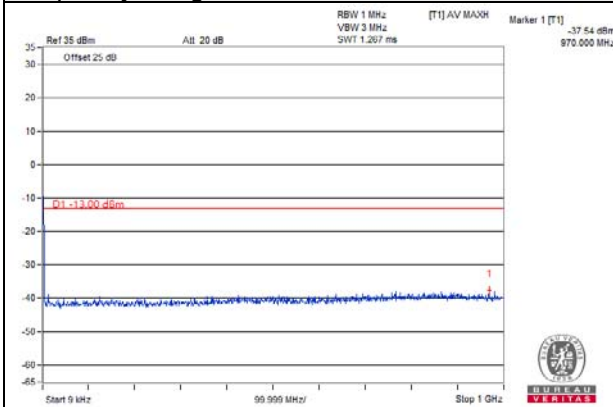
Frequency Range : 10GHz~20GHz



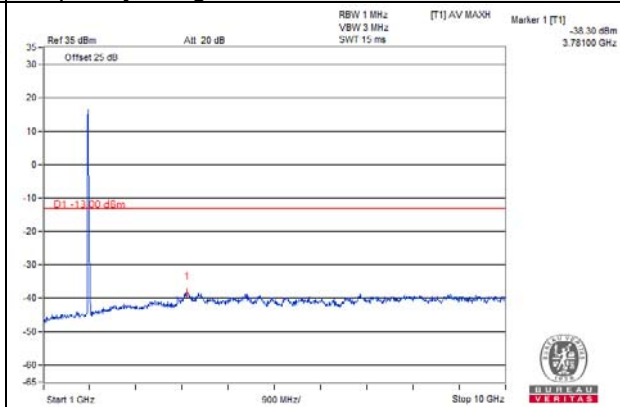
Note: The signal of 9kHz is IF signal from test instrument.

LTE Band 2 Channel Bandwidth: 20MHz
Channel 18700

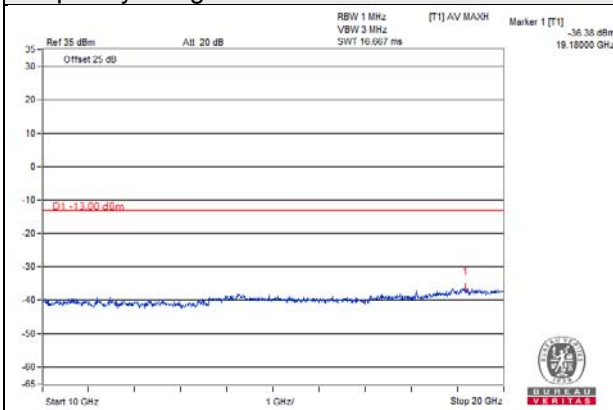
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

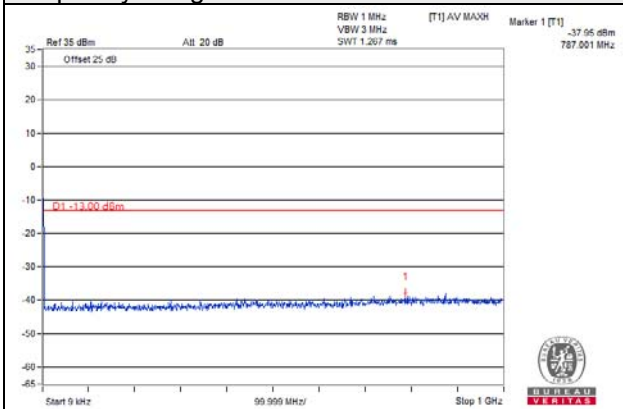


Note: The signal of 9kHz is IF signal from test instrument.

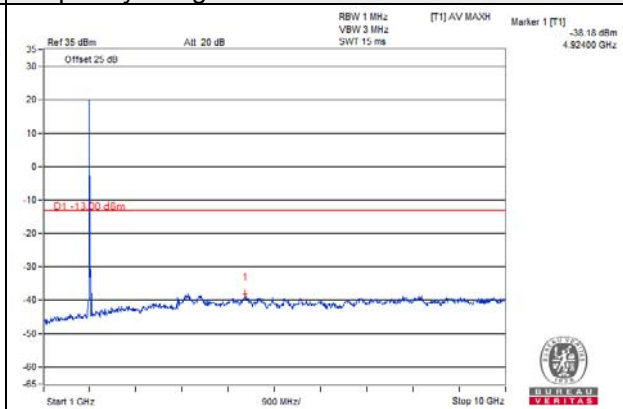
LTE Band 2 Channel Bandwidth: 20MHz

Channel 18900

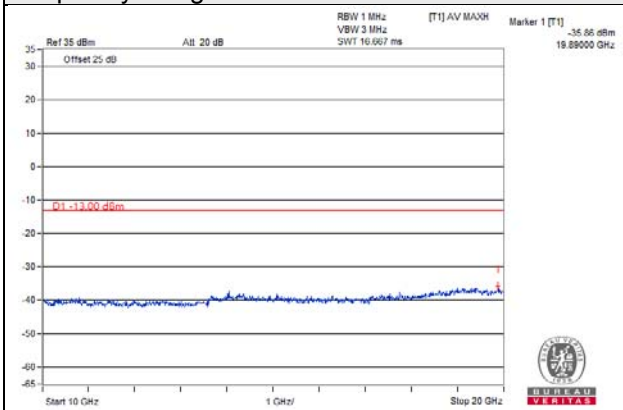
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz

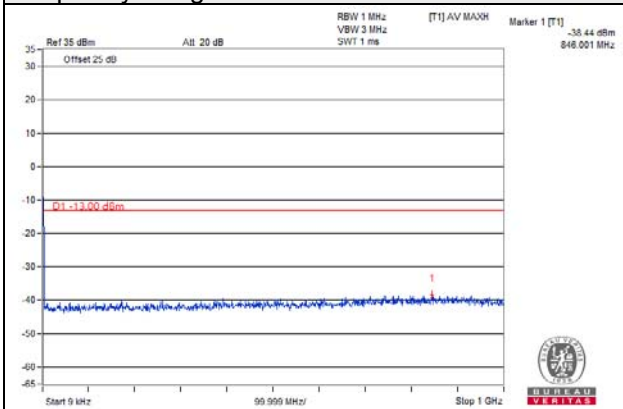


Note: The signal of 9kHz is IF signal from test instrument.

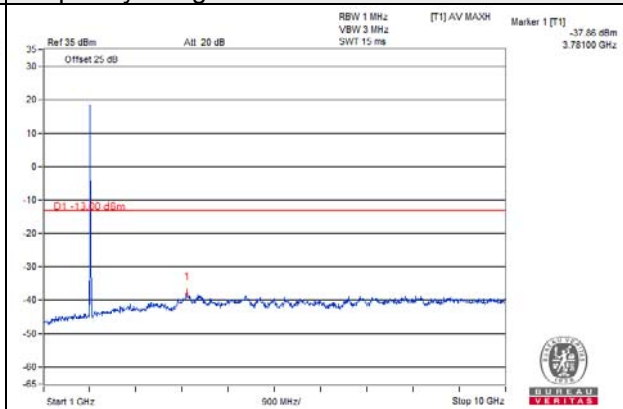
LTE Band 2 Channel Bandwidth: 20MHz

Channel 19100

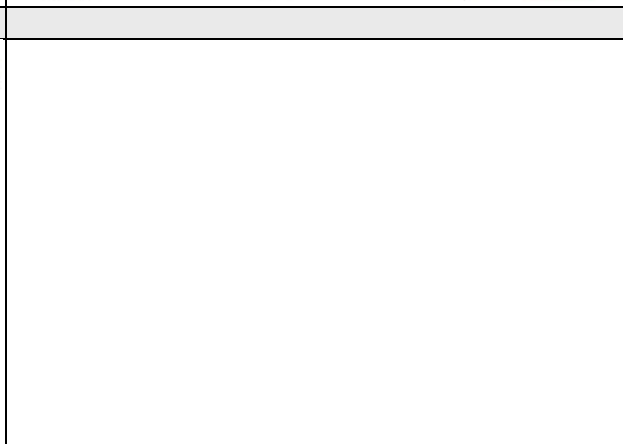
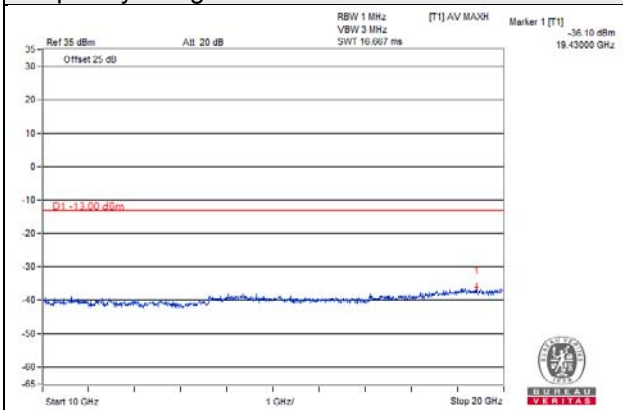
Frequency Range : 9kHz~1GHz



Frequency Range : 1GHz ~10GHz



Frequency Range : 10GHz~20GHz



Note: The signal of 9kHz is IF signal from test instrument.

4.8 Radiated Emission Measurement

4.8.1 Limits of Radiated Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

4.8.2 Test Procedure

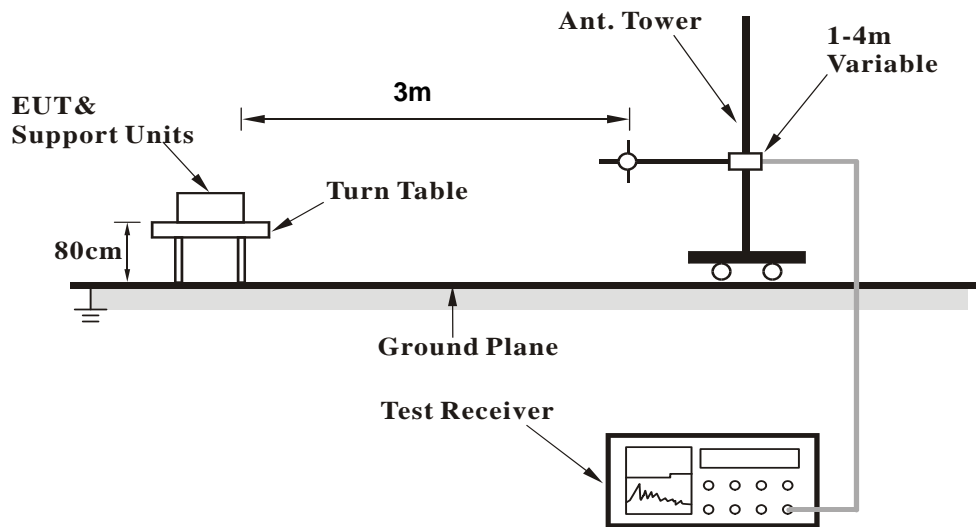
- a. The power was measured with Spectrum Analyzer.
- b. Substitution method is used for EIRP measurement. In the semi-anechoic chamber, EUT placed on the 0.8m/1.5m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. Follow ANSI 63.26 section 5.2.7 d), $\text{EIRP Value (dBm)} = \text{Read Value (dB}\mu\text{V/m)} - \text{Correction Factor @ 3m}$
- d. $\text{Correction Factor (dB) @ 3m} = 20\log(D) - 104.8$; where D is the measurement distance @3m $= -95.26\text{dB}$
- e. ERP power can be calculated form EIRP power by subtracting the gain of dipole, $\text{ERP power} = \text{EIPR power} - 2.15\text{dBi}$.

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

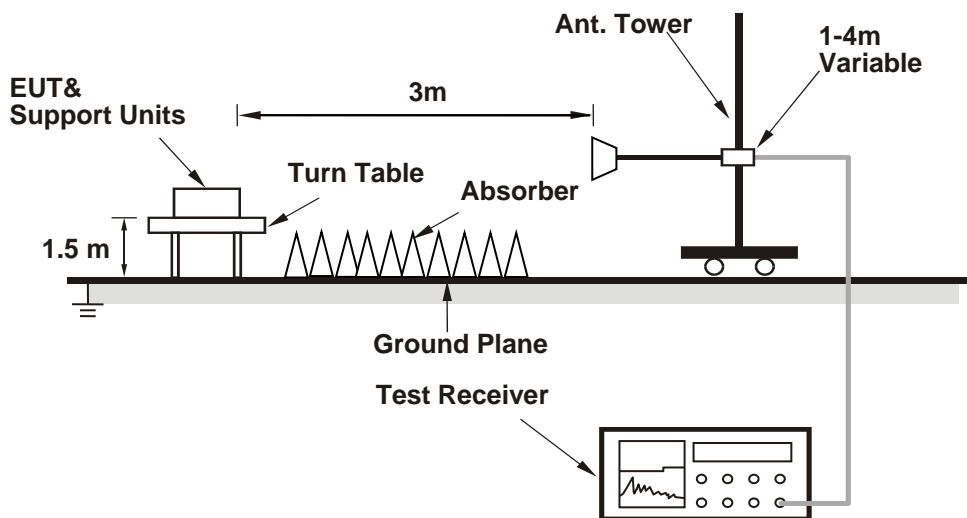
4.8.3 Deviation from Test Standard

No deviation.

**4.8.4 Test Setup
For Below 1GHz**



For Above 1GHz:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.8.5 Test Results

Below 1GHz
WCDMA B2:

| | | | |
|------|-----------------|-----------------|----------------|
| Mode | TX channel 9262 | Frequency Range | Below 1000 MHz |
|------|-----------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 209.86 | 35.22 | -95.26 | -60.04 | -13 | -47.04 |
| 2 | 250.79 | 38.98 | -95.26 | -56.28 | -13 | -43.28 |
| 3 | 282.92 | 29.55 | -95.26 | -65.71 | -13 | -52.71 |
| 4 | 302.58 | 35.32 | -95.26 | -59.94 | -13 | -46.94 |
| 5 | 767.76 | 35.57 | -95.26 | -59.69 | -13 | -46.69 |
| 6 | 907.42 | 32.67 | -95.26 | -62.59 | -13 | -49.59 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 60.73 | 36.36 | -95.26 | -58.90 | -13 | -45.90 |
| 2 | 84.58 | 40.39 | -95.26 | -54.87 | -13 | -41.87 |
| 3 | 158.43 | 31.59 | -95.26 | -63.67 | -13 | -50.67 |
| 4 | 189.52 | 38.42 | -95.26 | -56.84 | -13 | -43.84 |
| 5 | 222.91 | 37.61 | -95.26 | -57.65 | -13 | -44.65 |
| 6 | 848.4 | 34.6 | -95.26 | -60.66 | -13 | -47.66 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|-----------------|-----------------|----------------|
| Mode | TX channel 9400 | Frequency Range | Below 1000 MHz |
|------|-----------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 210.3 | 34.91 | -95.26 | -60.35 | -13 | -47.35 |
| 2 | 249.98 | 35.02 | -95.26 | -60.24 | -13 | -47.24 |
| 3 | 286.47 | 29.05 | -95.26 | -66.21 | -13 | -53.21 |
| 4 | 301.26 | 34.55 | -95.26 | -60.71 | -13 | -47.71 |
| 5 | 769.54 | 31.05 | -95.26 | -64.21 | -13 | -51.21 |
| 6 | 907.9 | 31.08 | -95.26 | -64.18 | -13 | -51.18 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 61.46 | 37.41 | -95.26 | -57.85 | -13 | -44.85 |
| 2 | 88.6 | 41.8 | -95.26 | -53.46 | -13 | -40.46 |
| 3 | 159.03 | 39.59 | -95.26 | -55.67 | -13 | -42.67 |
| 4 | 190.01 | 29.23 | -95.26 | -66.03 | -13 | -53.03 |
| 5 | 223.35 | 33.37 | -95.26 | -61.89 | -13 | -48.89 |
| 6 | 851.99 | 35.86 | -95.26 | -59.40 | -13 | -46.40 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|-----------------|-----------------|----------------|
| Mode | TX channel 9538 | Frequency Range | Below 1000 MHz |
|------|-----------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 210.65 | 38.22 | -95.26 | -57.04 | -13 | -44.04 |
| 2 | 252.42 | 39.98 | -95.26 | -55.28 | -13 | -42.28 |
| 3 | 287.86 | 27.16 | -95.26 | -68.10 | -13 | -55.10 |
| 4 | 301.42 | 35.63 | -95.26 | -59.63 | -13 | -46.63 |
| 5 | 768.22 | 32.97 | -95.26 | -62.29 | -13 | -49.29 |
| 6 | 911.93 | 30.13 | -95.26 | -65.13 | -13 | -52.13 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 61.61 | 41.03 | -95.26 | -54.23 | -13 | -41.23 |
| 2 | 88.43 | 42.33 | -95.26 | -52.93 | -13 | -39.93 |
| 3 | 162.13 | 32.25 | -95.26 | -63.01 | -13 | -50.01 |
| 4 | 193.09 | 40.2 | -95.26 | -55.06 | -13 | -42.06 |
| 5 | 227.31 | 35.19 | -95.26 | -60.07 | -13 | -47.07 |
| 6 | 852.94 | 38.06 | -95.26 | -57.20 | -13 | -44.20 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 2: 1.4 MHz

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18607 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 187.19 | 33.37 | -95.26 | -61.89 | -13 | -48.89 |
| 2 | 234.26 | 33.59 | -95.26 | -61.67 | -13 | -48.67 |
| 3 | 264.04 | 30.37 | -95.26 | -64.89 | -13 | -51.89 |
| 4 | 291.56 | 36.71 | -95.26 | -58.55 | -13 | -45.55 |
| 5 | 750.01 | 31.27 | -95.26 | -63.99 | -13 | -50.99 |
| 6 | 898 | 29.53 | -95.26 | -65.73 | -13 | -52.73 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 49.64 | 35.04 | -95.26 | -60.22 | -13 | -47.22 |
| 2 | 66.01 | 38.74 | -95.26 | -56.52 | -13 | -43.52 |
| 3 | 141.99 | 32.32 | -95.26 | -62.94 | -13 | -49.94 |
| 4 | 177.15 | 28.65 | -95.26 | -66.61 | -13 | -53.61 |
| 5 | 207.83 | 34.53 | -95.26 | -60.73 | -13 | -47.73 |
| 6 | 831.44 | 33.72 | -95.26 | -61.54 | -13 | -48.54 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 188.56 | 35.17 | -95.26 | -60.09 | -13 | -47.09 |
| 2 | 239.81 | 38.83 | -95.26 | -56.43 | -13 | -43.43 |
| 3 | 264.7 | 29.97 | -95.26 | -65.29 | -13 | -52.29 |
| 4 | 295.78 | 36.5 | -95.26 | -58.76 | -13 | -45.76 |
| 5 | 752.34 | 33.31 | -95.26 | -61.95 | -13 | -48.95 |
| 6 | 903.95 | 32.98 | -95.26 | -62.28 | -13 | -49.28 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 52.38 | 34.53 | -95.26 | -60.73 | -13 | -47.73 |
| 2 | 69.41 | 36.58 | -95.26 | -58.68 | -13 | -45.68 |
| 3 | 146.96 | 30.27 | -95.26 | -64.99 | -13 | -51.99 |
| 4 | 183.48 | 26.33 | -95.26 | -68.93 | -13 | -55.93 |
| 5 | 208.36 | 32.69 | -95.26 | -62.57 | -13 | -49.57 |
| 6 | 834.75 | 32.31 | -95.26 | -62.95 | -13 | -49.95 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19193 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 196.85 | 34.76 | -95.26 | -60.50 | -13 | -47.50 |
| 2 | 239.83 | 35.56 | -95.26 | -59.70 | -13 | -46.70 |
| 3 | 264.35 | 27.4 | -95.26 | -67.86 | -13 | -54.86 |
| 4 | 300.09 | 32.98 | -95.26 | -62.28 | -13 | -49.28 |
| 5 | 760.05 | 31.58 | -95.26 | -63.68 | -13 | -50.68 |
| 6 | 905.32 | 29.44 | -95.26 | -65.82 | -13 | -52.82 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 54.1 | 35.02 | -95.26 | -60.24 | -13 | -47.24 |
| 2 | 74.35 | 36.12 | -95.26 | -59.14 | -13 | -46.14 |
| 3 | 147.15 | 29.89 | -95.26 | -65.37 | -13 | -52.37 |
| 4 | 191.1 | 26.2 | -95.26 | -69.06 | -13 | -56.06 |
| 5 | 207.88 | 33.07 | -95.26 | -62.19 | -13 | -49.19 |
| 6 | 838.4 | 32.91 | -95.26 | -62.35 | -13 | -49.35 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 2: 3 MHz

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18615 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 202.73 | 34.78 | -95.26 | -60.48 | -13 | -47.48 |
| 2 | 243.06 | 37.6 | -95.26 | -57.66 | -13 | -44.66 |
| 3 | 272.37 | 27.23 | -95.26 | -68.03 | -13 | -55.03 |
| 4 | 304.98 | 34.77 | -95.26 | -60.49 | -13 | -47.49 |
| 5 | 761.06 | 33.84 | -95.26 | -61.42 | -13 | -48.42 |
| 6 | 913.22 | 28.62 | -95.26 | -66.64 | -13 | -53.64 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 56.91 | 38.38 | -95.26 | -56.88 | -13 | -43.88 |
| 2 | 77.32 | 34.89 | -95.26 | -60.37 | -13 | -47.37 |
| 3 | 150.95 | 33.71 | -95.26 | -61.55 | -13 | -48.55 |
| 4 | 192.15 | 23.71 | -95.26 | -71.55 | -13 | -58.55 |
| 5 | 213.15 | 35.07 | -95.26 | -60.19 | -13 | -47.19 |
| 6 | 844 | 31.54 | -95.26 | -63.72 | -13 | -50.72 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 203.61 | 33.04 | -95.26 | -62.22 | -13 | -49.22 |
| 2 | 245.2 | 39.68 | -95.26 | -55.58 | -13 | -42.58 |
| 3 | 275.95 | 31.23 | -95.26 | -64.03 | -13 | -51.03 |
| 4 | 313.3 | 35.87 | -95.26 | -59.39 | -13 | -46.39 |
| 5 | 768.3 | 33.37 | -95.26 | -61.89 | -13 | -48.89 |
| 6 | 921.47 | 30.91 | -95.26 | -64.35 | -13 | -51.35 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 63.31 | 35.89 | -95.26 | -59.37 | -13 | -46.37 |
| 2 | 76.92 | 38.27 | -95.26 | -56.99 | -13 | -43.99 |
| 3 | 151.4 | 32.22 | -95.26 | -63.04 | -13 | -50.04 |
| 4 | 196.92 | 29.26 | -95.26 | -66.00 | -13 | -53.00 |
| 5 | 221.6 | 35.49 | -95.26 | -59.77 | -13 | -46.77 |
| 6 | 843.96 | 34.31 | -95.26 | -60.95 | -13 | -47.95 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19185 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 207.05 | 34.82 | -95.26 | -60.44 | -13 | -47.44 |
| 2 | 251.88 | 35.86 | -95.26 | -59.40 | -13 | -46.40 |
| 3 | 278.62 | 26.46 | -95.26 | -68.80 | -13 | -55.80 |
| 4 | 315.34 | 33.7 | -95.26 | -61.56 | -13 | -48.56 |
| 5 | 776.59 | 31.1 | -95.26 | -64.16 | -13 | -51.16 |
| 6 | 921.35 | 30.49 | -95.26 | -64.77 | -13 | -51.77 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 67.06 | 34.74 | -95.26 | -60.52 | -13 | -47.52 |
| 2 | 83.39 | 35.47 | -95.26 | -59.79 | -13 | -46.79 |
| 3 | 157.35 | 30.82 | -95.26 | -64.44 | -13 | -51.44 |
| 4 | 197.39 | 25.2 | -95.26 | -70.06 | -13 | -57.06 |
| 5 | 221.98 | 33.82 | -95.26 | -61.44 | -13 | -48.44 |
| 6 | 847.07 | 32.72 | -95.26 | -62.54 | -13 | -49.54 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 2: 5 MHz

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18625 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 206.72 | 33.75 | -95.26 | -61.51 | -13 | -48.51 |
| 2 | 252.63 | 33.7 | -95.26 | -61.56 | -13 | -48.56 |
| 3 | 283.9 | 29.28 | -95.26 | -65.98 | -13 | -52.98 |
| 4 | 320.02 | 34.7 | -95.26 | -60.56 | -13 | -47.56 |
| 5 | 784.97 | 32.12 | -95.26 | -63.14 | -13 | -50.14 |
| 6 | 923.24 | 33.17 | -95.26 | -62.09 | -13 | -49.09 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 73.21 | 35.16 | -95.26 | -60.10 | -13 | -47.10 |
| 2 | 86.6 | 37.21 | -95.26 | -58.05 | -13 | -45.05 |
| 3 | 159.95 | 34.77 | -95.26 | -60.49 | -13 | -47.49 |
| 4 | 203.79 | 28.54 | -95.26 | -66.72 | -13 | -53.72 |
| 5 | 225.76 | 34.17 | -95.26 | -61.09 | -13 | -48.09 |
| 6 | 854.01 | 31.95 | -95.26 | -63.31 | -13 | -50.31 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 208.25 | 33.9 | -95.26 | -61.36 | -13 | -48.36 |
| 2 | 257.87 | 35.16 | -95.26 | -60.10 | -13 | -47.10 |
| 3 | 284.72 | 26.85 | -95.26 | -68.41 | -13 | -55.41 |
| 4 | 326.74 | 33.92 | -95.26 | -61.34 | -13 | -48.34 |
| 5 | 792.91 | 33.74 | -95.26 | -61.52 | -13 | -48.52 |
| 6 | 923.22 | 29.79 | -95.26 | -65.47 | -13 | -52.47 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 78.07 | 35.73 | -95.26 | -59.53 | -13 | -46.53 |
| 2 | 86.34 | 37.24 | -95.26 | -58.02 | -13 | -45.02 |
| 3 | 167.01 | 31.5 | -95.26 | -63.76 | -13 | -50.76 |
| 4 | 211.54 | 26 | -95.26 | -69.26 | -13 | -56.26 |
| 5 | 230.49 | 36.44 | -95.26 | -58.82 | -13 | -45.82 |
| 6 | 857.2 | 32.99 | -95.26 | -62.27 | -13 | -49.27 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19175 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 208.43 | 34.13 | -95.26 | -61.13 | -13 | -48.13 |
| 2 | 261.29 | 35.38 | -95.26 | -59.88 | -13 | -46.88 |
| 3 | 285.84 | 27.64 | -95.26 | -67.62 | -13 | -54.62 |
| 4 | 326.83 | 32.71 | -95.26 | -62.55 | -13 | -49.55 |
| 5 | 800.13 | 31.65 | -95.26 | -63.61 | -13 | -50.61 |
| 6 | 928.68 | 29.78 | -95.26 | -65.48 | -13 | -52.48 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 85.52 | 35.03 | -95.26 | -60.23 | -13 | -47.23 |
| 2 | 94.49 | 35.82 | -95.26 | -59.44 | -13 | -46.44 |
| 3 | 168.73 | 31.36 | -95.26 | -63.90 | -13 | -50.90 |
| 4 | 217.17 | 25.37 | -95.26 | -69.89 | -13 | -56.89 |
| 5 | 233.36 | 33.79 | -95.26 | -61.47 | -13 | -48.47 |
| 6 | 860.92 | 32.4 | -95.26 | -62.86 | -13 | -49.86 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 2: 10 MHz

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18650 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 200.25 | 33.15 | -95.26 | -62.11 | -13 | -49.11 |
| 2 | 245.63 | 34.18 | -95.26 | -61.08 | -13 | -48.08 |
| 3 | 271.44 | 30.91 | -95.26 | -64.35 | -13 | -51.35 |
| 4 | 305.18 | 33.58 | -95.26 | -61.68 | -13 | -48.68 |
| 5 | 765.08 | 35.28 | -95.26 | -59.98 | -13 | -46.98 |
| 6 | 913.4 | 32.7 | -95.26 | -62.56 | -13 | -49.56 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 55.62 | 37.32 | -95.26 | -57.94 | -13 | -44.94 |
| 2 | 75.27 | 39.1 | -95.26 | -56.16 | -13 | -43.16 |
| 3 | 152.41 | 31.37 | -95.26 | -63.89 | -13 | -50.89 |
| 4 | 191.86 | 28.23 | -95.26 | -67.03 | -13 | -54.03 |
| 5 | 214.29 | 35.03 | -95.26 | -60.23 | -13 | -47.23 |
| 6 | 840.12 | 36.53 | -95.26 | -58.73 | -13 | -45.73 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 200.88 | 35.78 | -95.26 | -59.48 | -13 | -46.48 |
| 2 | 254.12 | 38.31 | -95.26 | -56.95 | -13 | -43.95 |
| 3 | 276.97 | 31.41 | -95.26 | -63.85 | -13 | -50.85 |
| 4 | 307.38 | 36.91 | -95.26 | -58.35 | -13 | -45.35 |
| 5 | 770.2 | 33.99 | -95.26 | -61.27 | -13 | -48.27 |
| 6 | 913.23 | 28.96 | -95.26 | -66.30 | -13 | -53.30 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 58.9 | 35.29 | -95.26 | -59.97 | -13 | -46.97 |
| 2 | 80.04 | 36.46 | -95.26 | -58.80 | -13 | -45.80 |
| 3 | 160.31 | 31.33 | -95.26 | -63.93 | -13 | -50.93 |
| 4 | 193.23 | 29.53 | -95.26 | -65.73 | -13 | -52.73 |
| 5 | 216.33 | 32.34 | -95.26 | -62.92 | -13 | -49.92 |
| 6 | 840.13 | 36.02 | -95.26 | -59.24 | -13 | -46.24 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19150 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 205.72 | 34.16 | -95.26 | -61.10 | -13 | -48.10 |
| 2 | 258.17 | 35.07 | -95.26 | -60.19 | -13 | -47.19 |
| 3 | 284.33 | 27.96 | -95.26 | -67.30 | -13 | -54.30 |
| 4 | 313.93 | 33.14 | -95.26 | -62.12 | -13 | -49.12 |
| 5 | 770.83 | 31.15 | -95.26 | -64.11 | -13 | -51.11 |
| 6 | 917.19 | 30.25 | -95.26 | -65.01 | -13 | -52.01 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 60.34 | 35.01 | -95.26 | -60.25 | -13 | -47.25 |
| 2 | 85.18 | 34.54 | -95.26 | -60.72 | -13 | -47.72 |
| 3 | 166.26 | 30.32 | -95.26 | -64.94 | -13 | -51.94 |
| 4 | 198.78 | 24.54 | -95.26 | -70.72 | -13 | -57.72 |
| 5 | 220.33 | 32.29 | -95.26 | -62.97 | -13 | -49.97 |
| 6 | 843.77 | 32.16 | -95.26 | -63.10 | -13 | -50.10 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 2: 15 MHz

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18675 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 206.96 | 34.17 | -95.26 | -61.09 | -13 | -48.09 |
| 2 | 264.73 | 35.48 | -95.26 | -59.78 | -13 | -46.78 |
| 3 | 290.97 | 28.92 | -95.26 | -66.34 | -13 | -53.34 |
| 4 | 313.8 | 33.25 | -95.26 | -62.01 | -13 | -49.01 |
| 5 | 774.17 | 36.07 | -95.26 | -59.19 | -13 | -46.19 |
| 6 | 923.2 | 34.02 | -95.26 | -61.24 | -13 | -48.24 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 60.85 | 34.07 | -95.26 | -61.19 | -13 | -48.19 |
| 2 | 91.2 | 37.13 | -95.26 | -58.13 | -13 | -45.13 |
| 3 | 168.89 | 32.78 | -95.26 | -62.48 | -13 | -49.48 |
| 4 | 205.89 | 24.58 | -95.26 | -70.68 | -13 | -57.68 |
| 5 | 223.44 | 36.42 | -95.26 | -58.84 | -13 | -45.84 |
| 6 | 847.93 | 37.15 | -95.26 | -58.11 | -13 | -45.11 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 208.95 | 36.14 | -95.26 | -59.12 | -13 | -46.12 |
| 2 | 272.11 | 36.36 | -95.26 | -58.90 | -13 | -45.90 |
| 3 | 291.32 | 30.59 | -95.26 | -64.67 | -13 | -51.67 |
| 4 | 315.11 | 34.44 | -95.26 | -60.82 | -13 | -47.82 |
| 5 | 775.13 | 29.73 | -95.26 | -65.53 | -13 | -52.53 |
| 6 | 930.14 | 32.82 | -95.26 | -62.44 | -13 | -49.44 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 64.8 | 39.27 | -95.26 | -55.99 | -13 | -42.99 |
| 2 | 90.85 | 36.44 | -95.26 | -58.82 | -13 | -45.82 |
| 3 | 175.19 | 29.13 | -95.26 | -66.13 | -13 | -53.13 |
| 4 | 210.23 | 25.89 | -95.26 | -69.37 | -13 | -56.37 |
| 5 | 231.29 | 34.2 | -95.26 | -61.06 | -13 | -48.06 |
| 6 | 853.04 | 32.25 | -95.26 | -63.01 | -13 | -50.01 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19125 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 204.81 | 32.81 | -95.26 | -62.45 | -13 | -49.45 |
| 2 | 241.38 | 33.67 | -95.26 | -61.59 | -13 | -48.59 |
| 3 | 268.16 | 29.69 | -95.26 | -65.57 | -13 | -52.57 |
| 4 | 302.48 | 33.75 | -95.26 | -61.51 | -13 | -48.51 |
| 5 | 762.47 | 33.21 | -95.26 | -62.05 | -13 | -49.05 |
| 6 | 910.15 | 30.37 | -95.26 | -64.89 | -13 | -51.89 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 61.37 | 33.95 | -95.26 | -61.31 | -13 | -48.31 |
| 2 | 77.96 | 34.97 | -95.26 | -60.29 | -13 | -47.29 |
| 3 | 154.12 | 33.02 | -95.26 | -62.24 | -13 | -49.24 |
| 4 | 195.57 | 25.36 | -95.26 | -69.90 | -13 | -56.90 |
| 5 | 208.7 | 36.94 | -95.26 | -58.32 | -13 | -45.32 |
| 6 | 842.67 | 33.55 | -95.26 | -61.71 | -13 | -48.71 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 2: 20 MHz

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18700 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 199.12 | 34.04 | -95.26 | -61.22 | -13 | -48.22 |
| 2 | 244.44 | 33.02 | -95.26 | -62.24 | -13 | -49.24 |
| 3 | 271.87 | 29.83 | -95.26 | -65.43 | -13 | -52.43 |
| 4 | 307.87 | 35.87 | -95.26 | -59.39 | -13 | -46.39 |
| 5 | 762.14 | 34.13 | -95.26 | -61.13 | -13 | -48.13 |
| 6 | 906.21 | 34.79 | -95.26 | -60.47 | -13 | -47.47 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 54.08 | 34.54 | -95.26 | -60.72 | -13 | -47.72 |
| 2 | 81.99 | 33.26 | -95.26 | -62.00 | -13 | -49.00 |
| 3 | 150.87 | 34.11 | -95.26 | -61.15 | -13 | -48.15 |
| 4 | 191.33 | 27.35 | -95.26 | -67.91 | -13 | -54.91 |
| 5 | 213.74 | 37.41 | -95.26 | -57.85 | -13 | -44.85 |
| 6 | 841.84 | 36.17 | -95.26 | -59.09 | -13 | -46.09 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 204.26 | 34.94 | -95.26 | -60.32 | -13 | -47.32 |
| 2 | 248.92 | 36.13 | -95.26 | -59.13 | -13 | -46.13 |
| 3 | 276.51 | 31.77 | -95.26 | -63.49 | -13 | -50.49 |
| 4 | 309.36 | 37.41 | -95.26 | -57.85 | -13 | -44.85 |
| 5 | 769.23 | 31.62 | -95.26 | -63.64 | -13 | -50.64 |
| 6 | 910.59 | 32.6 | -95.26 | -62.66 | -13 | -49.66 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 55.43 | 37.69 | -95.26 | -57.57 | -13 | -44.57 |
| 2 | 86.48 | 37.22 | -95.26 | -58.04 | -13 | -45.04 |
| 3 | 153.35 | 34.14 | -95.26 | -61.12 | -13 | -48.12 |
| 4 | 198.92 | 28.63 | -95.26 | -66.63 | -13 | -53.63 |
| 5 | 217.73 | 34.16 | -95.26 | -61.10 | -13 | -48.10 |
| 6 | 842.35 | 35.78 | -95.26 | -59.48 | -13 | -46.48 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19100 | Frequency Range | Below 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 206.07 | 37.98 | -95.26 | -57.28 | -13 | -44.28 |
| 2 | 255.76 | 35.94 | -95.26 | -59.32 | -13 | -46.32 |
| 3 | 277.05 | 30.24 | -95.26 | -65.02 | -13 | -52.02 |
| 4 | 317.08 | 34.56 | -95.26 | -60.70 | -13 | -47.70 |
| 5 | 777.55 | 30.82 | -95.26 | -64.44 | -13 | -51.44 |
| 6 | 912.46 | 32.06 | -95.26 | -63.20 | -13 | -50.20 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 61.99 | 37.07 | -95.26 | -58.19 | -13 | -45.19 |
| 2 | 93.88 | 38.65 | -95.26 | -56.61 | -13 | -43.61 |
| 3 | 158.26 | 37.75 | -95.26 | -57.51 | -13 | -44.51 |
| 4 | 202.71 | 29.75 | -95.26 | -65.51 | -13 | -52.51 |
| 5 | 217.55 | 38.05 | -95.26 | -57.21 | -13 | -44.21 |
| 6 | 848.14 | 35.81 | -95.26 | -59.45 | -13 | -46.45 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Above 1GHz
WCDMA B2:

| | | | |
|------|-----------------|-----------------|----------------|
| Mode | TX channel 9262 | Frequency Range | Above 1000 MHz |
|------|-----------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3704.8 | 37.4 | -95.26 | -57.86 | -13 | -44.86 |
| 2 | 5557.2 | 44.71 | -95.26 | -50.55 | -13 | -37.55 |
| 3 | 7409.6 | 62.32 | -95.26 | -32.94 | -13 | -19.94 |
| 4 | 9262 | 60.38 | -95.26 | -34.88 | -13 | -21.88 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3704.8 | 38.91 | -95.26 | -56.35 | -13 | -43.35 |
| 2 | 5557.2 | 47.28 | -95.26 | -47.98 | -13 | -34.98 |
| 3 | 7409.6 | 66.42 | -95.26 | -28.84 | -13 | -15.84 |
| 4 | 9262 | 63.01 | -95.26 | -32.25 | -13 | -19.25 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|-----------------|-----------------|----------------|
| Mode | TX channel 9400 | Frequency Range | Above 1000 MHz |
|------|-----------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3760 | 34.69 | -95.26 | -60.57 | -13 | -47.57 |
| 2 | 5640 | 46.17 | -95.26 | -49.09 | -13 | -36.09 |
| 3 | 7520 | 60.31 | -95.26 | -34.95 | -13 | -21.95 |
| 4 | 9400 | 58.12 | -95.26 | -37.14 | -13 | -24.14 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3760 | 36.62 | -95.26 | -58.64 | -13 | -45.64 |
| 2 | 5640 | 50.28 | -95.26 | -44.98 | -13 | -31.98 |
| 3 | 7520 | 67.32 | -95.26 | -27.94 | -13 | -14.94 |
| 4 | 9400 | 62.03 | -95.26 | -33.23 | -13 | -20.23 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|-----------------|-----------------|----------------|
| Mode | TX channel 9538 | Frequency Range | Above 1000 MHz |
|------|-----------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3815.2 | 35.82 | -95.26 | -59.44 | -13 | -46.44 |
| 2 | 5722.8 | 44.74 | -95.26 | -50.52 | -13 | -37.52 |
| 3 | 7630.4 | 65.12 | -95.26 | -30.14 | -13 | -17.14 |
| 4 | 9538 | 55.79 | -95.26 | -39.47 | -13 | -26.47 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3815.2 | 38.44 | -95.26 | -56.82 | -13 | -43.82 |
| 2 | 5722.8 | 45.46 | -95.26 | -49.80 | -13 | -36.80 |
| 3 | 7630.4 | 67.82 | -95.26 | -27.44 | -13 | -14.44 |
| 4 | 9538 | 57.77 | -95.26 | -37.49 | -13 | -24.49 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 2: 1.4 MHz

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18607 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3701.4 | 39.96 | -95.26 | -55.30 | -13 | -42.30 |
| 2 | 5552.1 | 45.78 | -95.26 | -49.48 | -13 | -36.48 |
| 3 | 7402.8 | 66.71 | -95.26 | -28.55 | -13 | -15.55 |
| 4 | 9253.5 | 59.56 | -95.26 | -35.70 | -13 | -22.70 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3701.4 | 41.39 | -95.26 | -53.87 | -13 | -40.87 |
| 2 | 5552.1 | 46.51 | -95.26 | -48.75 | -13 | -35.75 |
| 3 | 7402.8 | 68.56 | -95.26 | -26.70 | -13 | -13.70 |
| 4 | 9253.5 | 66.15 | -95.26 | -29.11 | -13 | -16.11 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3760 | 40.35 | -95.26 | -54.91 | -13 | -41.91 |
| 2 | 5640 | 45.85 | -95.26 | -49.41 | -13 | -36.41 |
| 3 | 7520 | 67.5 | -95.26 | -27.76 | -13 | -14.76 |
| 4 | 9400 | 59.11 | -95.26 | -36.15 | -13 | -23.15 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|----------|-------------|------------------------|------------------------|---------------|-------------|---------------|
| 1 | 3760 | 41.48 | -95.26 | -53.78 | -13 | -40.78 |
| 2 | 5640 | 49.27 | -95.26 | -45.99 | -13 | -32.99 |
| 3 | 7520 | 69.02 | -95.26 | -26.24 | -13 | -13.24 |
| 4 | 9400 | 66.27 | -95.26 | -28.99 | -13 | -15.99 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19193 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3818.6 | 37.63 | -95.26 | -57.63 | -13 | -44.63 |
| 2 | 5727.9 | 46.77 | -95.26 | -48.49 | -13 | -35.49 |
| 3 | 7637.2 | 66.31 | -95.26 | -28.95 | -13 | -15.95 |
| 4 | 9546.5 | 61.06 | -95.26 | -34.20 | -13 | -21.20 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3818.6 | 38.63 | -95.26 | -56.63 | -13 | -43.63 |
| 2 | 5727.9 | 46.82 | -95.26 | -48.44 | -13 | -35.44 |
| 3 | 7637.2 | 67.4 | -95.26 | -27.86 | -13 | -14.86 |
| 4 | 9546.5 | 63.85 | -95.26 | -31.41 | -13 | -18.41 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 2: 3 MHz

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18615 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3703 | 37.01 | -95.26 | -58.25 | -13 | -45.25 |
| 2 | 5554.5 | 44.88 | -95.26 | -50.38 | -13 | -37.38 |
| 3 | 7406 | 64.88 | -95.26 | -30.38 | -13 | -17.38 |
| 4 | 9257.5 | 59.84 | -95.26 | -35.42 | -13 | -22.42 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3703 | 38.05 | -95.26 | -57.21 | -13 | -44.21 |
| 2 | 5554.5 | 48.06 | -95.26 | -47.20 | -13 | -34.20 |
| 3 | 7406 | 67.46 | -95.26 | -27.80 | -13 | -14.80 |
| 4 | 9257.5 | 63.74 | -95.26 | -31.52 | -13 | -18.52 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3760 | 39.45 | -95.26 | -55.81 | -13 | -42.81 |
| 2 | 5640 | 45.18 | -95.26 | -50.08 | -13 | -37.08 |
| 3 | 7520 | 65.28 | -95.26 | -29.98 | -13 | -16.98 |
| 4 | 9400 | 60.58 | -95.26 | -34.68 | -13 | -21.68 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3760 | 40.23 | -95.26 | -55.03 | -13 | -42.03 |
| 2 | 5640 | 45.7 | -95.26 | -49.56 | -13 | -36.56 |
| 3 | 7520 | 68.78 | -95.26 | -26.48 | -13 | -13.48 |
| 4 | 9400 | 63.24 | -95.26 | -32.02 | -13 | -19.02 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19185 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3817 | 38.6 | -95.26 | -56.66 | -13 | -43.66 |
| 2 | 5725.5 | 45.47 | -95.26 | -49.79 | -13 | -36.79 |
| 3 | 7634 | 65.42 | -95.26 | -29.84 | -13 | -16.84 |
| 4 | 9542.5 | 60.8 | -95.26 | -34.46 | -13 | -21.46 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3817 | 38.97 | -95.26 | -56.29 | -13 | -43.29 |
| 2 | 5725.5 | 46.08 | -95.26 | -49.18 | -13 | -36.18 |
| 3 | 7634 | 68.4 | -95.26 | -26.86 | -13 | -13.86 |
| 4 | 9542.5 | 66.02 | -95.26 | -29.24 | -13 | -16.24 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 2: 5 MHz

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18625 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3705 | 37.5 | -95.26 | -57.76 | -13 | -44.76 |
| 2 | 5557.5 | 42.95 | -95.26 | -52.31 | -13 | -39.31 |
| 3 | 7410 | 66.12 | -95.26 | -29.14 | -13 | -16.14 |
| 4 | 9262.5 | 62.69 | -95.26 | -32.57 | -13 | -19.57 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3705 | 40.2 | -95.26 | -55.06 | -13 | -42.06 |
| 2 | 5557.5 | 48.66 | -95.26 | -46.60 | -13 | -33.60 |
| 3 | 7410 | 67.45 | -95.26 | -27.81 | -13 | -14.81 |
| 4 | 9262.5 | 62.21 | -95.26 | -33.05 | -13 | -20.05 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3760 | 38.91 | -95.26 | -56.35 | -13 | -43.35 |
| 2 | 5640 | 42.95 | -95.26 | -52.31 | -13 | -39.31 |
| 3 | 7520 | 65.32 | -95.26 | -29.94 | -13 | -16.94 |
| 4 | 9400 | 62.51 | -95.26 | -32.75 | -13 | -19.75 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3760 | 42.1 | -95.26 | -53.16 | -13 | -40.16 |
| 2 | 5640 | 47.48 | -95.26 | -47.78 | -13 | -34.78 |
| 3 | 7520 | 67.4 | -95.26 | -27.86 | -13 | -14.86 |
| 4 | 9400 | 63.17 | -95.26 | -32.09 | -13 | -19.09 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19175 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3815 | 36.46 | -95.26 | -58.80 | -13 | -45.80 |
| 2 | 5722.5 | 45.35 | -95.26 | -49.91 | -13 | -36.91 |
| 3 | 7630 | 65.43 | -95.26 | -29.83 | -13 | -16.83 |
| 4 | 9537.5 | 61.47 | -95.26 | -33.79 | -13 | -20.79 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3815 | 40.09 | -95.26 | -55.17 | -13 | -42.17 |
| 2 | 5722.5 | 45.17 | -95.26 | -50.09 | -13 | -37.09 |
| 3 | 7630 | 67.8 | -95.26 | -27.46 | -13 | -14.46 |
| 4 | 9537.5 | 66.8 | -95.26 | -28.46 | -13 | -15.46 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 2: 10 MHz

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18650 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3710 | 44.08 | -95.26 | -51.18 | -13 | -38.18 |
| 2 | 5565 | 46.15 | -95.26 | -49.11 | -13 | -36.11 |
| 3 | 7420 | 66.7 | -95.26 | -28.56 | -13 | -15.56 |
| 4 | 9275 | 63.88 | -95.26 | -31.38 | -13 | -18.38 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3710 | 39.68 | -95.26 | -55.58 | -13 | -42.58 |
| 2 | 5565 | 46.04 | -95.26 | -49.22 | -13 | -36.22 |
| 3 | 7420 | 68.3 | -95.26 | -26.96 | -13 | -13.96 |
| 4 | 9275 | 63.52 | -95.26 | -31.74 | -13 | -18.74 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3760 | 37.39 | -95.26 | -57.87 | -13 | -44.87 |
| 2 | 5640 | 45.01 | -95.26 | -50.25 | -13 | -37.25 |
| 3 | 7520 | 65.3 | -95.26 | -29.96 | -13 | -16.96 |
| 4 | 9400 | 59.56 | -95.26 | -35.70 | -13 | -22.70 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3760 | 41.8 | -95.26 | -53.46 | -13 | -40.46 |
| 2 | 5640 | 46.01 | -95.26 | -49.25 | -13 | -36.25 |
| 3 | 7520 | 68.9 | -95.26 | -26.36 | -13 | -13.36 |
| 4 | 9400 | 62.88 | -95.26 | -32.38 | -13 | -19.38 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19150 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3810 | 40.89 | -95.26 | -54.37 | -13 | -41.37 |
| 2 | 5715 | 41.45 | -95.26 | -53.81 | -13 | -40.81 |
| 3 | 7620 | 63.25 | -95.26 | -32.01 | -13 | -19.01 |
| 4 | 9525 | 61.93 | -95.26 | -33.33 | -13 | -20.33 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3810 | 41.3 | -95.26 | -53.96 | -13 | -40.96 |
| 2 | 5715 | 46.82 | -95.26 | -48.44 | -13 | -35.44 |
| 3 | 7620 | 67.18 | -95.26 | -28.08 | -13 | -15.08 |
| 4 | 9525 | 62.83 | -95.26 | -32.43 | -13 | -19.43 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 2: 15 MHz

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18675 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3715 | 38.79 | -95.26 | -56.47 | -13 | -43.47 |
| 2 | 5572.5 | 44.25 | -95.26 | -51.01 | -13 | -38.01 |
| 3 | 7430 | 63.11 | -95.26 | -32.15 | -13 | -19.15 |
| 4 | 9287.5 | 62.22 | -95.26 | -33.04 | -13 | -20.04 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3715 | 41.76 | -95.26 | -53.50 | -13 | -40.50 |
| 2 | 5572.5 | 47.64 | -95.26 | -47.62 | -13 | -34.62 |
| 3 | 7430 | 65.12 | -95.26 | -30.14 | -13 | -17.14 |
| 4 | 9287.5 | 63.01 | -95.26 | -32.25 | -13 | -19.25 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3760 | 40.93 | -95.26 | -54.33 | -13 | -41.33 |
| 2 | 5640 | 43.13 | -95.26 | -52.13 | -13 | -39.13 |
| 3 | 7520 | 64 | -95.26 | -31.26 | -13 | -18.26 |
| 4 | 9400 | 59.77 | -95.26 | -35.49 | -13 | -22.49 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3760 | 39.22 | -95.26 | -56.04 | -13 | -43.04 |
| 2 | 5640 | 49.04 | -95.26 | -46.22 | -13 | -33.22 |
| 3 | 7520 | 66.52 | -95.26 | -28.74 | -13 | -15.74 |
| 4 | 9400 | 64.71 | -95.26 | -30.55 | -13 | -17.55 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19125 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3805 | 38.68 | -95.26 | -56.58 | -13 | -43.58 |
| 2 | 5707.5 | 42.75 | -95.26 | -52.51 | -13 | -39.51 |
| 3 | 7610 | 65.53 | -95.26 | -29.73 | -13 | -16.73 |
| 4 | 9512.5 | 62.85 | -95.26 | -32.41 | -13 | -19.41 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3805 | 38.3 | -95.26 | -56.96 | -13 | -43.96 |
| 2 | 5707.5 | 48.56 | -95.26 | -46.70 | -13 | -33.70 |
| 3 | 7610 | 67.15 | -95.26 | -28.11 | -13 | -15.11 |
| 4 | 9512.5 | 65.51 | -95.26 | -29.75 | -13 | -16.75 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 2: 20 MHz

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18700 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3720 | 39.99 | -95.26 | -55.27 | -13 | -42.27 |
| 2 | 5580 | 45.73 | -95.26 | -49.53 | -13 | -36.53 |
| 3 | 7440 | 64.47 | -95.26 | -30.79 | -13 | -17.79 |
| 4 | 9300 | 58.58 | -95.26 | -36.68 | -13 | -23.68 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3720 | 39.25 | -95.26 | -56.01 | -13 | -43.01 |
| 2 | 5580 | 50.56 | -95.26 | -44.70 | -13 | -31.70 |
| 3 | 7440 | 67.55 | -95.26 | -27.71 | -13 | -14.71 |
| 4 | 9300 | 62.5 | -95.26 | -32.76 | -13 | -19.76 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 18900 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3760 | 41.15 | -95.26 | -54.11 | -13 | -41.11 |
| 2 | 5640 | 43 | -95.26 | -52.26 | -13 | -39.26 |
| 3 | 7520 | 64.29 | -95.26 | -30.97 | -13 | -17.97 |
| 4 | 9400 | 56.61 | -95.26 | -38.65 | -13 | -25.65 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3760 | 37.76 | -95.26 | -57.50 | -13 | -44.50 |
| 2 | 5640 | 46.69 | -95.26 | -48.57 | -13 | -35.57 |
| 3 | 7520 | 67.81 | -95.26 | -27.45 | -13 | -14.45 |
| 4 | 9400 | 59.89 | -95.26 | -35.37 | -13 | -22.37 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

| | | | |
|------|------------------|-----------------|----------------|
| Mode | TX channel 19100 | Frequency Range | Above 1000 MHz |
|------|------------------|-----------------|----------------|

Antenna Polarity & Test Distance: Horizontal at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3800 | 38.27 | -95.26 | -56.99 | -13 | -43.99 |
| 2 | 5700 | 43.05 | -95.26 | -52.21 | -13 | -39.21 |
| 3 | 7600 | 63.24 | -95.26 | -32.02 | -13 | -19.02 |
| 4 | 9500 | 59.75 | -95.26 | -35.51 | -13 | -22.51 |

Antenna Polarity & Test Distance: Vertical at 3 M

| No. | Freq. (MHz) | Reading (dB μ V/m) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
|-----|-------------|------------------------|------------------------|------------|-------------|-------------|
| 1 | 3800 | 40.44 | -95.26 | -54.82 | -13 | -41.82 |
| 2 | 5700 | 46.27 | -95.26 | -48.99 | -13 | -35.99 |
| 3 | 7600 | 67.94 | -95.26 | -27.32 | -13 | -14.32 |
| 4 | 9500 | 62.67 | -95.26 | -32.59 | -13 | -19.59 |

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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