

Partial FCC Test Report (Part 24 – WCDMA B2, LTE B2/B25)

Report No.: RFCDVB-WTW-P22100073-1

FCC ID: QYLLN920V

Test Model: LN920A12-WW

Received Date: Oct. 11, 2022

Test Date: Oct. 27 ~ Oct. 31, 2022

Issued Date: Dec. 27, 2022

Applicant: Getac Technology Corporation.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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**FCC Registration /
Designation Number:** 788550 / TW0003



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Table of Contents

| | |
|--|-----------|
| Release Control Record | 3 |
| 1 Certificate of Conformity | 4 |
| 2 Summary of Test Results | 5 |
| 2.1 Measurement Uncertainty..... | 5 |
| 2.2 Test Site and Instruments..... | 6 |
| 3 General Information | 7 |
| 3.1 General Description of EUT..... | 7 |
| 3.2 Configuration of System under Test..... | 11 |
| 3.2.1 Description of Support Units..... | 11 |
| 3.3 Test Mode Applicability and Tested Channel Detail..... | 12 |
| 3.4 EUT Operating Conditions..... | 15 |
| 3.5 General Description of Applied Standards and References..... | 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 Radiated Emission Measurement..... | 43 |
| 4.2.1 Limits of Radiated Emission Measurement..... | 43 |
| 4.2.2 Test Procedure..... | 43 |
| 4.2.3 Deviation from Test Standard..... | 43 |
| 4.2.4 Test Setup..... | 44 |
| 4.2.5 Test Results..... | 45 |
| 5 Pictures of Test Arrangements | 65 |
| Appendix – Information of the Testing Laboratories | 66 |

Release Control Record

| Issue No. | Description | Date Issued |
|------------------------|------------------|---------------|
| RFCDVB-WTW-P22100073-1 | Original release | Dec. 27, 2022 |

1 Certificate of Conformity

Product: Radio Module

Brand: Getac

Test Model: LN920A12-WW

Sample Status: Engineering sample

Applicant: Getac Technology Corporation.

Test Date: Oct. 27 ~ Oct. 31, 2022

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 RF characteristics under the conditions specified in this report.

Prepared by : Celine Chou , **Date:** Dec. 27, 2022
Celine Chou / Senior Specialist

Approved by : Jeremy Lin , **Date:** Dec. 27, 2022
Jeremy Lin / Project Engineer

2 Summary of Test Results

| Applied Standard: FCC Part 24 & Part 2 | | | |
|--|--|--------|--|
| FCC Clause | Test Item | Result | Remarks |
| 2.1046 24.232 | Effective Isotropically Radiated Power | Pass | Meet the requirement of limit. |
| 2.1046 24.232 (d) | Peak To Average Ratio | N/A | Refer to Note |
| 2.1047 | Modulation Characteristics | N/A | Refer to Note |
| 2.1055 24.235 | Frequency Stability | N/A | Refer to Note |
| 2.1049 | Occupied Bandwidth | N/A | Refer to Note |
| 24.238 | Band Edge Measurements | N/A | Refer to Note |
| 2.1051 24.238 | Conducted Spurious Emissions | N/A | Refer to Note |
| 2.1053 24.238 | Radiated Spurious Emissions | Pass | Meet the requirement of limit. Minimum passing margin is -17.94dB at 3765.00MHz. |

Note:

1. This report is a Class II change partial report. Therefore, only test item of Radiated Spurious Emissions tests and Effective Isotropically Radiated Power were performed for this report. Other testing data please refer to SGS Taiwan Ltd. report no.: TERF2206000792ER and TERF2206000793ER for module (Brand: Telit, Model: LN920A12-WW).
2. 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 | 3.59 dB |
| | 30MHz ~ 200MHz | 3.63 dB |
| | 200MHz ~ 1000MHz | 3.64 dB |
| Radiated Emissions above 1 GHz | 1GHz ~ 18GHz | 2.29 dB |
| | 18GHz ~ 40GHz | 2.29 dB |

2.2 Test Site and Instruments

| Description & Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due |
|--|---------------------------------------|---------------------------------|---------------|---------------|
| Test Receiver R&S | ESCI | 100424 | Dec. 30, 2021 | Dec. 29, 2022 |
| Spectrum Analyzer R&S | FSW43 | 101582 | Apr. 13, 2022 | Apr. 12, 2023 |
| Loop Antenna TESEQ | HLA 6121 | 45745 | Jul. 27, 2022 | Jul. 26, 2023 |
| Pre-amplifier EMCI | EMC001340 | 980201 | Sep. 23, 2022 | Sep. 22, 2023 |
| RF Coaxial Cable EMCI | 5D-NM-BM | 140903+140902 | Jan. 15, 2022 | Jan. 14, 2023 |
| Preamplifier Agilent | 8447D | 2944A10631 | May 14, 2022 | May 13, 2023 |
| BILOG Antenna SCHWARZBECK | VULB9168 | 9168-155 | Nov. 01, 2021 | Oct. 31, 2022 |
| RF Coaxial Cable EMCI | EMC102-KM-KM-3000 | 150929 | Jul. 09, 2022 | Jul. 08, 2023 |
| RF Coaxial Cable EMCI | EMC102-KM-KM-600 | 150928 | Jul. 09, 2022 | Jul. 08, 2023 |
| HORN Antenna SCHWARZBECK | BBHA 9170 | BBHA9170241 | Oct. 20, 2022 | Oct. 19, 2023 |
| Preamplifier KEYSIGHT | 83017A | MY53270295 | May 14, 2022 | May 13, 2023 |
| RF signal cable HUBER+SUHNER | SUCOFLEX 104 | MY 13380+295012/04 | May 14, 2022 | May 13, 2023 |
| RF signal cable HUBER+SUHNER | SUCOFLEX 104 | Cable-CH4-03 (250724) | May 14, 2022 | May 13, 2023 |
| Pre-Amplifier EMCI | EMC 184045 | 980116 | Oct. 01, 2022 | Sep. 30, 2023 |
| RF Coaxial Cable HUBER+SUHNER&EMCI | SUCOFLEX 104& EMC104-SM-SM8 000 | CABLE-CH9-02 (248780+171006) | Jan. 15, 2022 | Jan. 14, 2023 |
| RF Coaxial Cable HUBER+SUHNER | SUCOFLEX 104 | CABLE-CH9-(250795/4) | Jan. 15, 2022 | Jan. 14, 2023 |
| Software BV ADT | ADT_Radiated_ V7.6.15.9.5 | NA | NA | NA |
| Antenna Tower inn-co GmbH | MA 4000 | 010303 | NA | NA |
| Turn Table BV ADT | TT100 | TT93021705 | NA | NA |
| Turn Table Controller BV ADT | SC100 | SC93021705 | NA | NA |
| Boresight antenna tower fixture BV | BAF-02 | 5 | NA | NA |
| Radio Communication Analyzer Anritsu | MT8820C | 6201300640 | Aug. 26, 2021 | Aug. 22, 2023 |

Note: 1. The calibration interval of the above test instruments is 12/24 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HY - 966 chamber 3.

3 General Information

3.1 General Description of EUT

| | | |
|---------------------|--|-----------------------|
| Product | Radio Module | |
| Brand | Getac | |
| Test Model | LN920A12-WW | |
| Sample Status | Engineering sample | |
| Power Supply Rating | 3.3Vdc | |
| Modulation Type | WCDMA: BPSK, QPSK HSDPA: BPSK HSUPA: QPSK LTE: QPSK, 16QAM, 64QAM | |
| Operating Frequency | WCDMA Band 2 | 1852.4MHz ~ 1907.6MHz |
| | LTE Band 2 (Channel Bandwidth 1.4MHz) | 1850.7MHz ~ 1909.3MHz |
| | LTE Band 2 (Channel Bandwidth 3MHz) | 1851.5MHz ~ 1908.5MHz |
| | LTE Band 2 (Channel Bandwidth 5MHz) | 1852.5MHz ~ 1907.5MHz |
| | LTE Band 2 (Channel Bandwidth 10MHz) | 1855.0MHz ~ 1905.0MHz |
| | LTE Band 2 (Channel Bandwidth 15MHz) | 1857.5MHz ~ 1902.5MHz |
| | LTE Band 2 (Channel Bandwidth 20MHz) | 1860.0MHz ~ 1900.0MHz |
| | LTE Band 25 (Channel Bandwidth 1.4MHz) | 1850.7MHz ~ 1914.3MHz |
| | LTE Band 25 (Channel Bandwidth 3MHz) | 1851.5MHz ~ 1913.5MHz |
| | LTE Band 25 (Channel Bandwidth 5MHz) | 1852.5MHz ~ 1912.5MHz |
| | LTE Band 25 (Channel Bandwidth 10MHz) | 1855.0MHz ~ 1910.0MHz |
| | LTE Band 25 (Channel Bandwidth 15MHz) | 1857.5MHz ~ 1907.5MHz |
| | LTE Band 25 (Channel Bandwidth 20MHz) | 1860.0MHz ~ 1905.0MHz |

| | | | | |
|-------------------|--|-------------------------|-------------------------|-------------------------|
| Max. EIRP Power | WCDMA Band 2 | 275.423mW (24.40dBm) | | |
| | | QPSK | 16QAM | 64QAM |
| | LTE Band 2 (Channel Bandwidth 1.4MHz) | 215.278mW (23.33dBm) | 167.494mW (22.24dBm) | 124.738mW (20.96dBm) |
| | LTE Band 2 (Channel Bandwidth 3MHz) | 213.796mW (23.30dBm) | 167.494mW (22.24dBm) | 125.893mW (21.00dBm) |
| | LTE Band 2 (Channel Bandwidth 5MHz) | 215.278mW (23.33dBm) | 166.725mW (22.22dBm) | 124.738mW (20.96dBm) |
| | LTE Band 2 (Channel Bandwidth 10MHz) | 215.774mW (23.34dBm) | 164.816mW (22.17dBm) | 125.026mW (20.97dBm) |
| | LTE Band 2 (Channel Bandwidth 15MHz) | 215.774mW (23.34dBm) | 164.816mW (22.17dBm) | 125.603mW (20.99dBm) |
| | LTE Band 2 (Channel Bandwidth 20MHz) | 216.272mW (23.35dBm) | 168.267mW (22.26dBm) | 126.765mW (21.03dBm) |
| | LTE Band 25 (Channel Bandwidth 1.4MHz) | 217.270mW (23.37dBm) | 168.267mW (22.26dBm) | 132.434mW (21.22dBm) |
| | LTE Band 25 (Channel Bandwidth 3MHz) | 216.272mW (23.35dBm) | 169.434mW (22.29dBm) | 132.739mW (21.23dBm) |
| | LTE Band 25 (Channel Bandwidth 5MHz) | 214.783mW (23.32dBm) | 168.655mW (22.27dBm) | 132.434mW (21.22dBm) |
| | LTE Band 25 (Channel Bandwidth 10MHz) | 215.774mW (23.34dBm) | 169.824mW (22.30dBm) | 130.918mW (21.17dBm) |
| | LTE Band 25 (Channel Bandwidth 15MHz) | 213.796mW (23.30dBm) | 170.216mW (22.31dBm) | 131.826mW (21.20dBm) |
| | LTE Band 25 (Channel Bandwidth 20MHz) | 222.331mW (23.47dBm) | 170.608mW (22.32dBm) | 133.660mW (21.26dBm) |
| | Antenna Type | Refer to Note as below | | |
| Antenna Connector | Refer to Note as below | | | |
| Accessory Device | NA | | | |
| Cable Supplied | NA | | | |

Note:

1. The EUT is authorized for use in specific End-product.

| Product | Brand | Model | Difference |
|----------|-------|---|-----------------------|
| Notebook | Getac | V110 | For marketing purpose |
| | | V110G7 | |
| | | V110Y (Y= 10 characters, Y can be 0 to 9, A to Z, a to z, "/", "\", "-", "_ or blank) | |

* The model of the V110G7 was chosen for final test.

2. The End-product contains following accessory devices.

| Part | Brand | Model | Specification |
|---------------|-----------------------|---------------|--|
| Adapter 1 | FSP | FSP065-RBBN3 | I/P: 100-240Vac, 50-60Hz, 1.5A O/P: 19.0Vdc, 3.42A 1.5m DC power cable with one core attached on adapter |
| Adapter 2 | Getac | MTA190474W4 | I/P: 100-240Vac, 50-60Hz, 1.6A O/P: 19.0Vdc, 4.74A 1.55m DC power cable with two cores attached on adapter |
| Battery | Getac | BP3S1P2100-S | Rating: 11.1Vdc, 2040mAh, 23Wh Typical name: 2100mAh, 24Wh |
| Digitizer Pen | EMpen Technology Corp | DIGITIZER PEN | - |

3. The End-product has three SKUs for sale, after pre-test. SKU 2 was chosen for final test and presented in the test report.

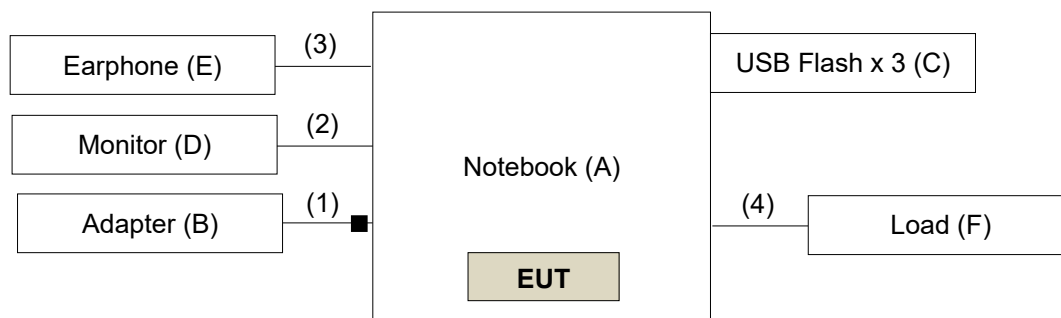
| Part | Brand | Model | Specification | Configuration | | |
|------------------|-----------|-------------|---------------------|---------------|-------|-------|
| | | | | SKU 1 | SKU 2 | SKU 3 |
| CPU | Intel | Alder Lake | i5-1235U (Non Vpro) | V | | V |
| | | | i7-1265U (Vpro) | | V | |
| DDR | Kingston | --- | 16GB (8GB+8GB) | V | | |
| | | --- | 32GB (16GB+16GB) | | V | |
| | | --- | 64GB (32GB+32GB) | | | V |
| SSD | SSSTC | --- | 256GB | V | | |
| | | --- | 512GB | | V | |
| | | --- | 1TB | | | V |
| LCD Panel | AUO | G116HAN01 | 11.6" | V | V | V |
| Touchscreen | Getac | --- | --- | V | V | V |
| Finger Print | Egistec | --- | --- | V | V | V |
| WLAN Module | Intel | AX211NGW | --- | V | V | V |
| WWAN Module | Telit | LN920A12-WW | --- | V | V | V |
| GPS | GlobalSat | MC1010G | --- | V | V | V |
| RFID Module | NXP | PN-7462 | --- | | V | V |
| Digitizer Module | Getac | EMR116-UA00 | --- | | V | V |
| Bottom Camera | FOXLINK | FN80AF-443H | --- | V | V | V |
| | Chicony | CKAM816 | --- | V | V | V |
| Camera | FOXLINK | FN20FF-679H | --- | V | V | V |
| IR Camera | FOXLINK | FN23FF-678H | --- | | V | V |
| Option Bay | Honeywell | N6703 | Barcode | V | | V |
| | Getac | --- | SD Card reader | | V | |
| | Getac | --- | Smart Card | | V | |

4. The following antennas were provided to the End-product.

| Ant. | Type | Connector | Gain (dBi) | | | | | | | | |
|----------------|------|-----------|------------|----------|----------|---------|---------|---------|---------|---------|---------|
| | | | WCDMA B2 | WCDMA B4 | WCDMA B5 | LTE B2 | LTE B4 | LTE B5 | LTE B7 | LTE B12 | LTE B13 |
| Main (TX / RX) | PIFA | I-PEX | 2.48 | 2.28 | -0.69 | 2.48 | 2.28 | -0.69 | 1.92 | 3.16 | 0.87 |
| | | | LTE B14 | LTE B25 | LTE B26 | LTE B38 | LTE B41 | LTE B48 | LTE B66 | LTE B71 | |
| | | | 0.78 | 2.48 | -0.69 | 2.15 | 2.82 | -1.30 | 2.28 | 2.65 | |
| Ant. | Type | Connector | Gain (dBi) | | | | | | | | |
| | | | WCDMA B2 | WCDMA B4 | WCDMA B5 | LTE B2 | LTE B4 | LTE B5 | LTE B7 | LTE B12 | LTE B13 |
| Aux (RX only) | PIFA | I-PEX | 4.17 | 2.69 | -1.49 | 4.17 | 2.69 | -1.49 | -0.11 | -3.06 | 0.60 |
| | | | LTE B14 | LTE B25 | LTE B26 | LTE B38 | LTE B41 | LTE B48 | LTE B66 | LTE B71 | |
| | | | 0.82 | 4.17 | -1.49 | 0.48 | 1.31 | -0.99 | 2.89 | -4.84 | |

* Detail antenna specification please refer to antenna datasheet an antenna gain measurement report.

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. | Notebook | Getac | V110G7 | NA | NA | Provided by manufacturer |
| B. | Adapter | FSP | FSP065-RBBN3 | NA | NA | Provided by manufacturer |
| C. | USB Flash x 3 | SanDisk | SDDDC3-032G | NA | NA | - |
| D. | Monitor | ASUS | VA24EHE | LCLMTF243824 | NA | - |
| E. | Earphone | Apple | MB77PFEB | NA | NA | - |
| F. | Load | NA | NA | NA | NA | - |
| G. | Radio Communication Analyzer | Anritsu | MT8820C | 6201300640 | NA | - |

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item G acted as a communication partner to transfer data.

| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|----|----------------|------|------------|--------------------|--------------|---|
| 1. | DC Power Cable | 1 | 1.5 | N | 1 | Provided by manufacturer Attached on adapter |
| 2. | HDMI Cable | 1 | 1.0 | Y | 0 | - |
| 3. | Earphone Cable | 1 | 1.5 | N | 0 | - |
| 4. | RJ45 Cable | 1 | 1.5 | N | 0 | - |

Note: The core(s) is(are) originally attached to the cable(s).

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis, NB mode and tablet mode. The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

| Band | Radiated Emission |
|--------------|-------------------|
| WCDMA Band 2 | NB mode |
| LTE Band 2 | NB mode |
| LTE Band 25 | NB mode |

WCDMA Band 2

| EUT Configure Mode | Test Item | Available Channel | Tested Channel | Mode |
|--------------------|---------------------------------|-------------------|--|---------------------|
| - | EIRP | 9262 to 9538 | 9262 (1852.4MHz), 9400 (1880.0MHz), 9538 (1907.6MHz) | WCDMA, HSDPA, HSUPA |
| - | Radiated Emission Below 1GHz | 9262 to 9538 | 9262 (1852.4MHz) | WCDMA |
| - | Radiated Emission Above 1GHz | 9262 to 9538 | 9262 (1852.4MHz), 9400 (1880.0MHz), 9538 (1907.6MHz) | WCDMA |

Note: For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.

LTE Band 2

| EUT Configure Mode | Test item | Available channel | Tested Channel | Channel Bandwidth | Modulation | Mode |
|--------------------|------------------------------|-------------------|---|-------------------|-------------------------|-------------------|
| - | EIRP | 18607 to 19193 | 18607 (1850.7MHz), 18900 (1880.0MHz), 19193 (1909.3MHz) | 1.4MHz | QPSK / 16QAM / 64QAM | 1 Half Full |
| | | 18615 to 19185 | 18615 (1851.5MHz), 18900 (1880.0MHz), 19185 (1908.5MHz) | 3MHz | QPSK / 16QAM / 64QAM | 1 Half Full |
| | | 18625 to 19175 | 18625 (1852.5MHz), 18900 (1880.0MHz), 19175 (1907.5MHz) | 5MHz | QPSK / 16QAM / 64QAM | 1 Half Full |
| | | 18650 to 19150 | 18650 (1855.0MHz), 18900 (1880.0MHz), 19150 (1905.0MHz) | 10MHz | QPSK / 16QAM / 64QAM | 1 Half Full |
| | | 18675 to 19125 | 18675 (1857.5MHz), 18900 (1880.0MHz), 19125 (1902.5MHz) | 15MHz | QPSK / 16QAM / 64QAM | 1 Half Full |
| | | 18700 to 19100 | 18700 (1860.0MHz), 18900 (1880.0MHz), 19100 (1900.0MHz) | 20MHz | QPSK / 16QAM / 64QAM | 1 Half Full |
| - | Radiated Emission Below 1GHz | 18700 to 19100 | 19100 (1900.0MHz) | 20MHz | QPSK | 1 |
| - | Radiated Emission Above 1GHz | 18607 to 19193 | 18607 (1850.7MHz), 18900 (1880.0MHz), 19193 (1909.3MHz) | 1.4MHz | QPSK | 1 |
| | | 18625 to 19175 | 18625 (1852.5MHz), 18900 (1880.0MHz), 19175 (1907.5MHz) | 5MHz | QPSK | 1 |
| | | 18700 to 19100 | 18700 (1860.0MHz), 18900 (1880.0MHz), 19100 (1900.0MHz) | 20MHz | QPSK | 1 |

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
3. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.

LTE Band 25

| EUT Configure Mode | Test item | Available channel | Tested Channel | Channel Bandwidth | Modulation | Mode |
|--------------------|------------------------------|-------------------|---|-------------------|-------------------------|-------------------|
| - | EIRP | 26047 to 26683 | 26047 (1850.7MHz), 26365 (1882.5MHz), 26683 (1914.3MHz) | 1.4MHz | QPSK / 16QAM / 64QAM | 1 Half Full |
| | | 26055 to 26675 | 26055 (1851.5MHz), 26365 (1882.5MHz), 26675 (1913.5MHz) | 3MHz | QPSK / 16QAM / 64QAM | 1 Half Full |
| | | 26065 to 26665 | 26065 (1852.5MHz), 26365 (1882.5MHz), 26665 (1912.5MHz) | 5MHz | QPSK / 16QAM / 64QAM | 1 Half Full |
| | | 26090 to 26640 | 26090 (1855.0MHz), 26365 (1882.5MHz), 26640 (1910.0MHz) | 10MHz | QPSK / 16QAM / 64QAM | 1 Half Full |
| | | 26115 to 26615 | 26115 (1857.5MHz), 26365 (1882.5MHz), 26615 (1907.5MHz) | 15MHz | QPSK / 16QAM / 64QAM | 1 Half Full |
| | | 26140 to 26590 | 26140 (1860.0MHz), 26365 (1882.5MHz), 26590 (1905.0MHz) | 20MHz | QPSK / 16QAM / 64QAM | 1 Half Full |
| - | Radiated Emission Below 1GHz | 26140 to 26590 | 26365 (1882.5MHz) | 20MHz | QPSK | 1 |
| - | Radiated Emission Above 1GHz | 26047 to 26683 | 26047 (1850.7MHz), 26365 (1882.5MHz), 26683 (1914.3MHz) | 1.4MHz | QPSK | 1 |
| | | 26065 to 26665 | 26065 (1852.5MHz), 26365 (1882.5MHz), 26665 (1912.5MHz) | 5MHz | QPSK | 1 |
| | | 26140 to 26590 | 26140 (1860.0MHz), 26365 (1882.5MHz), 26590 (1905.0MHz) | 20MHz | QPSK | 1 |

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. For radiated emission below 1GHz, select the worst radiated emission channel (above 1GHz) for final testing.
3. For radiated emission above 1GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5MHz & highest channel bandwidth for final test.

Test Condition:

| Test Item | Environmental Conditions | Input Power | Tested By |
|-------------------|-------------------------------------|-----------------------|-------------|
| EIRP | 25deg. C, 60%RH | 120Vac, 60Hz (System) | Willy Cheng |
| Radiated Emission | 23deg. C, 68%RH, 24deg. C, 68%RH | 120Vac, 60Hz (System) | Luis Lee |

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. 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 and References

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

Test Standard:

FCC 47 CFR Part 2

FCC 47 CFR Part 24

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

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 record the power level shown on simulator.

Maximum EIRP / ERP

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$$\text{EIRP} = P_{\text{Meas}} + G_{\text{T}}$$

$$\text{ERP} = P_{\text{Meas}} + G_{\text{T}} - 2.15$$

where

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

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

G_{T} gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

4.1.3 Test Setup

Conducted Power Measurement:



4.1.4 Test Results

Conducted Output Power (dBm)

| Band | WCDMA II | | |
|--------------------|----------|-------|--------|
| | 9262 | 9400 | 9538 |
| TX Channel | 9262 | 9400 | 9538 |
| Frequency | 1852.4 | 1880 | 1907.6 |
| RMC 12.2K | 21.83 | 21.85 | 21.92 |
| HSDPA Subtest-1 | 20.68 | 20.91 | 20.95 |
| HSDPA Subtest-2 | 20.65 | 20.96 | 20.93 |
| HSDPA Subtest-3 | 20.18 | 20.46 | 20.47 |
| HSDPA Subtest-4 | 20.26 | 20.41 | 20.40 |
| DC-HSDPA Subtest-1 | 20.63 | 20.87 | 20.85 |
| DC-HSDPA Subtest-2 | 20.58 | 20.82 | 20.80 |
| DC-HSDPA Subtest-3 | 20.07 | 20.37 | 20.38 |
| DC-HSDPA Subtest-4 | 20.00 | 20.34 | 20.34 |
| HSUPA Subtest-1 | 20.65 | 20.88 | 20.89 |
| HSUPA Subtest-2 | 18.61 | 18.89 | 18.79 |
| HSUPA Subtest-3 | 19.65 | 19.91 | 19.89 |
| HSUPA Subtest-4 | 18.65 | 18.84 | 18.99 |
| HSUPA Subtest-5 | 20.55 | 20.71 | 20.77 |

| LTE Band 2 | | | | | | |
|------------|-----------|-----------------|-----------|-------|--------------|-------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 18700 | 18900 | 19100 |
| | | Frequency (MHz) | | 1860 | 1880 | 1900 |
| 20M | QPSK | 1 | 0 | 20.78 | 20.87 | 20.84 |
| | | 1 | 50 | 20.72 | 20.84 | 20.76 |
| | | 1 | 99 | 20.65 | 20.81 | 20.73 |
| | | 50 | 0 | 19.78 | 19.85 | 19.84 |
| | | 50 | 25 | 19.67 | 19.84 | 19.76 |
| | | 50 | 50 | 19.81 | 19.81 | 19.81 |
| | | 100 | 0 | 19.69 | 19.79 | 19.74 |
| 20M | 16QAM | 1 | 0 | 19.64 | 19.78 | 19.70 |
| | | 1 | 50 | 19.62 | 19.76 | 19.70 |
| | | 1 | 99 | 19.64 | 19.75 | 19.66 |
| | | 50 | 0 | 18.56 | 18.67 | 18.63 |
| | | 50 | 25 | 18.49 | 18.00 | 18.58 |
| | | 50 | 50 | 18.46 | 18.64 | 18.51 |
| | | 100 | 0 | 18.54 | 18.61 | 18.55 |
| 20M | 64QAM | 1 | 0 | 18.45 | 18.55 | 18.48 |
| | | 1 | 50 | 18.42 | 18.49 | 18.45 |
| | | 1 | 99 | 18.45 | 18.51 | 18.48 |
| | | 50 | 0 | 17.70 | 17.88 | 17.79 |
| | | 50 | 25 | 17.74 | 17.81 | 17.78 |
| | | 50 | 50 | 17.59 | 17.76 | 17.66 |
| | | 100 | 0 | 17.65 | 17.75 | 17.69 |

| LTE Band 2 | | | | | | |
|------------|-----------|-----------------|-----------|--------|-------|--------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 18675 | 18900 | 19125 |
| | | Frequency (MHz) | | 1857.5 | 1880 | 1902.5 |
| 15M | QPSK | 1 | 0 | 20.81 | 20.86 | 20.81 |
| | | 1 | 37 | 20.75 | 20.80 | 20.76 |
| | | 1 | 74 | 20.71 | 20.79 | 20.76 |
| | | 36 | 0 | 19.68 | 19.80 | 19.80 |
| | | 36 | 19 | 19.67 | 19.80 | 19.76 |
| | | 36 | 39 | 19.73 | 19.73 | 19.74 |
| | | 75 | 0 | 19.61 | 19.74 | 19.66 |
| 15M | 16QAM | 1 | 0 | 19.62 | 19.69 | 19.64 |
| | | 1 | 37 | 19.60 | 19.69 | 19.60 |
| | | 1 | 74 | 19.55 | 19.68 | 19.57 |
| | | 36 | 0 | 18.37 | 18.57 | 18.45 |
| | | 36 | 19 | 18.52 | 18.58 | 18.56 |
| | | 36 | 39 | 18.40 | 18.56 | 18.54 |
| | | 75 | 0 | 18.46 | 18.60 | 18.54 |
| 15M | 64QAM | 1 | 0 | 18.38 | 18.51 | 18.44 |
| | | 1 | 37 | 18.35 | 18.46 | 18.43 |
| | | 1 | 74 | 18.42 | 18.47 | 18.46 |
| | | 36 | 0 | 17.60 | 17.88 | 17.72 |
| | | 36 | 19 | 17.70 | 17.74 | 17.73 |
| | | 36 | 39 | 17.51 | 17.67 | 17.57 |
| | | 75 | 0 | 17.63 | 17.68 | 17.67 |

| LTE Band 2 | | | | | | |
|------------|-----------|-----------------|-----------|-------|-------|-------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 18650 | 18900 | 19150 |
| | | Frequency (MHz) | | 1855 | 1880 | 1905 |
| 10M | QPSK | 1 | 0 | 20.86 | 20.77 | 20.79 |
| | | 1 | 24 | 20.82 | 20.77 | 20.82 |
| | | 1 | 49 | 20.78 | 20.74 | 20.77 |
| | | 25 | 0 | 19.77 | 19.82 | 19.82 |
| | | 25 | 12 | 19.65 | 19.77 | 19.75 |
| | | 25 | 25 | 19.76 | 19.75 | 19.79 |
| | | 50 | 0 | 19.64 | 19.79 | 19.73 |
| 10M | 16QAM | 1 | 0 | 19.61 | 19.69 | 19.62 |
| | | 1 | 24 | 19.61 | 19.67 | 19.63 |
| | | 1 | 49 | 19.57 | 19.68 | 19.66 |
| | | 25 | 0 | 18.36 | 18.52 | 18.41 |
| | | 25 | 12 | 18.56 | 18.62 | 18.59 |
| | | 25 | 25 | 18.42 | 18.64 | 18.54 |
| | | 50 | 0 | 18.49 | 18.51 | 18.47 |
| 10M | 64QAM | 1 | 0 | 18.39 | 18.46 | 18.47 |
| | | 1 | 24 | 18.39 | 18.41 | 18.39 |
| | | 1 | 49 | 18.42 | 18.49 | 18.47 |
| | | 25 | 0 | 17.65 | 17.87 | 17.69 |
| | | 25 | 12 | 17.68 | 17.74 | 17.69 |
| | | 25 | 25 | 17.55 | 17.73 | 17.63 |
| | | 50 | 0 | 17.57 | 17.72 | 17.68 |

| LTE Band 2 | | | | | | |
|------------|-----------|-----------------|-----------|--------|-------|--------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 18625 | 18900 | 19175 |
| | | Frequency (MHz) | | 1852.5 | 1880 | 1907.5 |
| 5M | QPSK | 1 | 0 | 20.85 | 20.77 | 20.76 |
| | | 1 | 12 | 20.77 | 20.75 | 20.78 |
| | | 1 | 24 | 20.77 | 20.73 | 20.71 |
| | | 12 | 0 | 19.71 | 19.82 | 19.80 |
| | | 12 | 6 | 19.60 | 19.80 | 19.67 |
| | | 12 | 13 | 19.76 | 19.75 | 19.71 |
| | | 25 | 0 | 19.67 | 19.76 | 19.73 |
| 5M | 16QAM | 1 | 0 | 19.62 | 19.74 | 19.62 |
| | | 1 | 12 | 19.52 | 19.72 | 19.64 |
| | | 1 | 24 | 19.63 | 19.72 | 19.62 |
| | | 12 | 0 | 18.41 | 18.51 | 18.50 |
| | | 12 | 6 | 18.52 | 18.66 | 18.61 |
| | | 12 | 13 | 18.41 | 18.59 | 18.49 |
| | | 25 | 0 | 18.44 | 18.59 | 18.55 |
| 5M | 64QAM | 1 | 0 | 18.37 | 18.48 | 18.45 |
| | | 1 | 12 | 18.41 | 18.43 | 18.37 |
| | | 1 | 24 | 18.39 | 18.43 | 18.45 |
| | | 12 | 0 | 17.61 | 17.88 | 17.73 |
| | | 12 | 6 | 17.65 | 17.81 | 17.68 |
| | | 12 | 13 | 17.52 | 17.71 | 17.66 |
| | | 25 | 0 | 17.64 | 17.75 | 17.68 |

| LTE Band 2 | | | | | | |
|------------|-----------|-----------------|-----------|--------|-------|--------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 18615 | 18900 | 19185 |
| | | Frequency (MHz) | | 1851.5 | 1880 | 1908.5 |
| 3M | QPSK | 1 | 0 | 20.79 | 20.80 | 20.77 |
| | | 1 | 7 | 20.79 | 20.76 | 20.82 |
| | | 1 | 14 | 20.73 | 20.74 | 20.79 |
| | | 8 | 0 | 19.77 | 19.86 | 19.81 |
| | | 8 | 3 | 19.63 | 19.81 | 19.73 |
| | | 8 | 7 | 19.78 | 19.76 | 19.78 |
| | | 15 | 0 | 19.62 | 19.76 | 19.69 |
| 3M | 16QAM | 1 | 0 | 19.60 | 19.70 | 19.67 |
| | | 1 | 7 | 19.54 | 19.76 | 19.64 |
| | | 1 | 14 | 19.64 | 19.75 | 19.56 |
| | | 8 | 0 | 18.38 | 18.59 | 18.47 |
| | | 8 | 3 | 18.55 | 18.65 | 18.58 |
| | | 8 | 7 | 18.48 | 18.60 | 18.48 |
| | | 15 | 0 | 18.48 | 18.60 | 18.55 |
| 3M | 64QAM | 1 | 0 | 18.38 | 18.52 | 18.47 |
| | | 1 | 7 | 18.34 | 18.48 | 18.44 |
| | | 1 | 14 | 18.37 | 18.51 | 18.41 |
| | | 8 | 0 | 17.60 | 17.78 | 17.78 |
| | | 8 | 3 | 17.70 | 17.76 | 17.68 |
| | | 8 | 7 | 17.50 | 17.68 | 17.65 |
| | | 15 | 0 | 17.59 | 17.68 | 17.69 |

| LTE Band 2 | | | | | | |
|------------|-----------|-----------------|-----------|--------|-------|--------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 18607 | 18900 | 19193 |
| | | Frequency (MHz) | | 1850.7 | 1880 | 1909.3 |
| 1.4M | QPSK | 1 | 0 | 20.82 | 20.85 | 20.83 |
| | | 1 | 2 | 20.78 | 20.75 | 20.79 |
| | | 1 | 5 | 20.75 | 20.79 | 20.80 |
| | | 3 | 0 | 19.71 | 19.77 | 19.79 |
| | | 3 | 1 | 19.67 | 19.80 | 19.74 |
| | | 3 | 3 | 19.77 | 19.80 | 19.75 |
| | | 6 | 0 | 19.63 | 19.78 | 19.71 |
| 1.4M | 16QAM | 1 | 0 | 19.56 | 19.76 | 19.62 |
| | | 1 | 2 | 19.62 | 19.71 | 19.67 |
| | | 1 | 5 | 19.59 | 19.75 | 19.57 |
| | | 3 | 0 | 18.45 | 18.60 | 18.49 |
| | | 3 | 1 | 18.51 | 18.63 | 18.61 |
| | | 3 | 3 | 18.46 | 18.64 | 18.51 |
| | | 6 | 0 | 18.50 | 18.59 | 18.47 |
| 1.4M | 64QAM | 1 | 0 | 18.40 | 18.48 | 18.39 |
| | | 1 | 2 | 18.37 | 18.44 | 18.34 |
| | | 1 | 5 | 18.31 | 18.48 | 18.27 |
| | | 3 | 0 | 18.36 | 18.36 | 18.34 |
| | | 3 | 1 | 18.23 | 18.31 | 18.21 |
| | | 3 | 3 | 18.21 | 18.26 | 18.14 |
| | | 6 | 0 | 17.68 | 17.78 | 17.64 |

| LTE Band 25 | | | | | | |
|-------------|-----------|-----------------|-----------|-------|--------------|-------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 26140 | 26365 | 26590 |
| | | Frequency (MHz) | | 1860 | 1882.5 | 1905 |
| 20M | QPSK | 1 | 0 | 20.97 | 20.99 | 20.98 |
| | | 1 | 50 | 20.95 | 20.96 | 20.95 |
| | | 1 | 99 | 20.93 | 20.94 | 20.92 |
| | | 50 | 0 | 19.81 | 19.93 | 19.90 |
| | | 50 | 25 | 19.76 | 19.89 | 19.83 |
| | | 50 | 50 | 19.80 | 19.87 | 19.87 |
| | | 100 | 0 | 19.73 | 19.86 | 19.83 |
| 20M | 16QAM | 1 | 0 | 19.72 | 19.84 | 19.81 |
| | | 1 | 50 | 19.75 | 19.83 | 19.81 |
| | | 1 | 99 | 19.66 | 19.81 | 19.71 |
| | | 50 | 0 | 18.67 | 18.79 | 18.73 |
| | | 50 | 25 | 18.70 | 18.77 | 18.74 |
| | | 50 | 50 | 18.74 | 18.75 | 18.75 |
| | | 100 | 0 | 18.59 | 18.71 | 18.62 |
| 20M | 64QAM | 1 | 0 | 18.64 | 18.78 | 18.69 |
| | | 1 | 50 | 18.64 | 18.73 | 18.69 |
| | | 1 | 99 | 18.58 | 18.68 | 18.59 |
| | | 50 | 0 | 17.77 | 17.85 | 17.85 |
| | | 50 | 25 | 17.78 | 17.81 | 17.81 |
| | | 50 | 50 | 17.69 | 17.76 | 17.72 |
| | | 100 | 0 | 17.71 | 17.79 | 17.73 |

| LTE Band 25 | | | | | | |
|-------------|-----------|-----------------|-----------|--------|--------|--------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 26115 | 26365 | 26615 |
| | | Frequency (MHz) | | 1857.5 | 1882.5 | 1907.5 |
| 15M | QPSK | 1 | 0 | 20.81 | 20.82 | 20.79 |
| | | 1 | 37 | 20.77 | 20.81 | 20.82 |
| | | 1 | 74 | 20.82 | 20.80 | 20.82 |
| | | 36 | 0 | 19.75 | 19.86 | 19.87 |
| | | 36 | 19 | 19.67 | 19.85 | 19.81 |
| | | 36 | 39 | 19.71 | 19.80 | 19.85 |
| | | 75 | 0 | 19.64 | 19.80 | 19.82 |
| 15M | 16QAM | 1 | 0 | 19.67 | 19.78 | 19.72 |
| | | 1 | 37 | 19.74 | 19.83 | 19.75 |
| | | 1 | 74 | 19.58 | 19.72 | 19.62 |
| | | 36 | 0 | 18.64 | 18.69 | 18.69 |
| | | 36 | 19 | 18.69 | 18.74 | 18.64 |
| | | 36 | 39 | 18.72 | 18.68 | 18.75 |
| | | 75 | 0 | 18.55 | 18.65 | 18.61 |
| 15M | 64QAM | 1 | 0 | 18.54 | 18.72 | 18.68 |
| | | 1 | 37 | 18.59 | 18.69 | 18.68 |
| | | 1 | 74 | 18.54 | 18.63 | 18.54 |
| | | 36 | 0 | 17.71 | 17.82 | 17.84 |
| | | 36 | 19 | 17.76 | 17.74 | 17.73 |
| | | 36 | 39 | 17.59 | 17.67 | 17.64 |
| | | 75 | 0 | 17.68 | 17.79 | 17.68 |

| LTE Band 25 | | | | | | |
|-------------|-----------|-----------------|-----------|-------|--------|-------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 26090 | 26365 | 26640 |
| | | Frequency (MHz) | | 1855 | 1882.5 | 1910 |
| 10M | QPSK | 1 | 0 | 20.83 | 20.79 | 20.86 |
| | | 1 | 24 | 20.79 | 20.76 | 20.76 |
| | | 1 | 49 | 20.80 | 20.78 | 20.75 |
| | | 25 | 0 | 19.73 | 19.92 | 19.85 |
| | | 25 | 12 | 19.68 | 19.87 | 19.77 |
| | | 25 | 25 | 19.77 | 19.80 | 19.80 |
| | | 50 | 0 | 19.71 | 19.76 | 19.78 |
| 10M | 16QAM | 1 | 0 | 19.67 | 19.77 | 19.76 |
| | | 1 | 24 | 19.67 | 19.82 | 19.74 |
| | | 1 | 49 | 19.57 | 19.73 | 19.62 |
| | | 25 | 0 | 18.63 | 18.77 | 18.69 |
| | | 25 | 12 | 18.67 | 18.73 | 18.65 |
| | | 25 | 25 | 18.72 | 18.71 | 18.75 |
| | | 50 | 0 | 18.57 | 18.68 | 18.61 |
| 10M | 64QAM | 1 | 0 | 18.61 | 18.69 | 18.64 |
| | | 1 | 24 | 18.59 | 18.67 | 18.65 |
| | | 1 | 49 | 18.56 | 18.62 | 18.55 |
| | | 25 | 0 | 17.70 | 17.84 | 17.77 |
| | | 25 | 12 | 17.73 | 17.80 | 17.75 |
| | | 25 | 25 | 17.63 | 17.75 | 17.71 |
| | | 50 | 0 | 17.61 | 17.76 | 17.73 |

| LTE Band 25 | | | | | | |
|-------------|-----------|-----------------|-----------|--------|--------|--------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 26065 | 26365 | 26665 |
| | | Frequency (MHz) | | 1852.5 | 1882.5 | 1912.5 |
| 5M | QPSK | 1 | 0 | 20.84 | 20.84 | 20.81 |
| | | 1 | 12 | 20.84 | 20.78 | 20.80 |
| | | 1 | 24 | 20.81 | 20.79 | 20.73 |
| | | 12 | 0 | 19.71 | 19.86 | 19.86 |
| | | 12 | 6 | 19.71 | 19.85 | 19.74 |
| | | 12 | 13 | 19.70 | 19.85 | 19.85 |
| | | 25 | 0 | 19.63 | 19.81 | 19.80 |
| 5M | 16QAM | 1 | 0 | 19.65 | 19.76 | 19.78 |
| | | 1 | 12 | 19.71 | 19.76 | 19.73 |
| | | 1 | 24 | 19.66 | 19.79 | 19.61 |
| | | 12 | 0 | 18.62 | 18.77 | 18.69 |
| | | 12 | 6 | 18.63 | 18.70 | 18.69 |
| | | 12 | 13 | 18.70 | 18.69 | 18.66 |
| | | 25 | 0 | 18.49 | 18.67 | 18.59 |
| 5M | 64QAM | 1 | 0 | 18.59 | 18.74 | 18.60 |
| | | 1 | 12 | 18.64 | 18.69 | 18.61 |
| | | 1 | 24 | 18.53 | 18.61 | 18.55 |
| | | 12 | 0 | 17.71 | 17.83 | 17.78 |
| | | 12 | 6 | 17.77 | 17.71 | 17.80 |
| | | 12 | 13 | 17.67 | 17.70 | 17.65 |
| | | 25 | 0 | 17.67 | 17.69 | 17.71 |

| LTE Band 25 | | | | | | |
|-------------|-----------|-----------------|-----------|--------|--------|--------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 26055 | 26365 | 26675 |
| | | Frequency (MHz) | | 1851.5 | 1882.5 | 1913.5 |
| 3M | QPSK | 1 | 0 | 20.80 | 20.87 | 20.83 |
| | | 1 | 7 | 20.85 | 20.81 | 20.84 |
| | | 1 | 14 | 20.81 | 20.83 | 20.77 |
| | | 8 | 0 | 19.81 | 19.93 | 19.82 |
| | | 8 | 3 | 19.68 | 19.87 | 19.77 |
| | | 8 | 7 | 19.78 | 19.77 | 19.82 |
| | | 15 | 0 | 19.67 | 19.77 | 19.78 |
| 3M | 16QAM | 1 | 0 | 19.66 | 19.81 | 19.71 |
| | | 1 | 7 | 19.73 | 19.75 | 19.72 |
| | | 1 | 14 | 19.60 | 19.74 | 19.63 |
| | | 8 | 0 | 18.65 | 18.79 | 18.65 |
| | | 8 | 3 | 18.62 | 18.72 | 18.68 |
| | | 8 | 7 | 18.67 | 18.75 | 18.73 |
| | | 15 | 0 | 18.53 | 18.69 | 18.59 |
| 3M | 64QAM | 1 | 0 | 18.63 | 18.75 | 18.60 |
| | | 1 | 7 | 18.55 | 18.66 | 18.67 |
| | | 1 | 14 | 18.58 | 18.61 | 18.59 |
| | | 8 | 0 | 17.69 | 17.75 | 17.85 |
| | | 8 | 3 | 17.74 | 17.74 | 17.72 |
| | | 8 | 7 | 17.66 | 17.76 | 17.67 |
| | | 15 | 0 | 17.69 | 17.73 | 17.67 |

| LTE Band 25 | | | | | | |
|-------------|-----------|-----------------|-----------|--------|--------|--------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 26047 | 26365 | 26683 |
| | | Frequency (MHz) | | 1850.7 | 1882.5 | 1914.3 |
| 1.4M | QPSK | 1 | 0 | 20.78 | 20.89 | 20.85 |
| | | 1 | 2 | 20.79 | 20.82 | 20.79 |
| | | 1 | 5 | 20.82 | 20.83 | 20.77 |
| | | 3 | 0 | 19.74 | 19.90 | 19.89 |
| | | 3 | 1 | 19.67 | 19.85 | 19.83 |
| | | 3 | 3 | 19.70 | 19.77 | 19.85 |
| | | 6 | 0 | 19.65 | 19.76 | 19.74 |
| 1.4M | 16QAM | 1 | 0 | 19.69 | 19.78 | 19.75 |
| | | 1 | 2 | 19.74 | 19.74 | 19.76 |
| | | 1 | 5 | 19.63 | 19.71 | 19.61 |
| | | 3 | 0 | 18.64 | 18.76 | 18.67 |
| | | 3 | 1 | 18.70 | 18.67 | 18.68 |
| | | 3 | 3 | 18.65 | 18.61 | 18.74 |
| | | 6 | 0 | 18.55 | 18.58 | 18.53 |
| 1.4M | 64QAM | 1 | 0 | 18.64 | 18.74 | 18.68 |
| | | 1 | 2 | 18.55 | 18.68 | 18.61 |
| | | 1 | 5 | 18.54 | 18.63 | 18.60 |
| | | 3 | 0 | 18.59 | 18.66 | 18.66 |
| | | 3 | 1 | 18.55 | 18.60 | 18.60 |
| | | 3 | 3 | 18.43 | 18.56 | 18.52 |
| | | 6 | 0 | 17.70 | 17.78 | 17.73 |

EIRP Power (dBm)

| Band | WCDMA II | | |
|--------------------|----------|-------|--------|
| | 9262 | 9400 | 9538 |
| TX Channel | 1852.4 | 1880 | 1907.6 |
| Frequency | 24.31 | 24.33 | 24.40 |
| RMC 12.2K | 23.16 | 23.39 | 23.43 |
| HSDPA Subtest-1 | 23.13 | 23.44 | 23.41 |
| HSDPA Subtest-2 | 22.66 | 22.94 | 22.95 |
| HSDPA Subtest-3 | 22.74 | 22.89 | 22.88 |
| DC-HSDPA Subtest-1 | 23.11 | 23.35 | 23.33 |
| DC-HSDPA Subtest-2 | 23.06 | 23.30 | 23.28 |
| DC-HSDPA Subtest-3 | 22.55 | 22.85 | 22.86 |
| DC-HSDPA Subtest-4 | 22.48 | 22.82 | 22.82 |
| HSUPA Subtest-1 | 23.13 | 23.36 | 23.37 |
| HSUPA Subtest-2 | 21.09 | 21.37 | 21.27 |
| HSUPA Subtest-3 | 22.13 | 22.39 | 22.37 |
| HSUPA Subtest-4 | 21.13 | 21.32 | 21.47 |
| HSUPA Subtest-5 | 23.03 | 23.19 | 23.25 |

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

| LTE Band 2 | | | | | | |
|------------|-----------|-----------------|-----------|-------|-------|-------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 18700 | 18900 | 19100 |
| | | Frequency (MHz) | | 1860 | 1880 | 1900 |
| 20M | QPSK | 1 | 0 | 23.26 | 23.35 | 23.32 |
| | | 1 | 50 | 23.20 | 23.32 | 23.24 |
| | | 1 | 99 | 23.13 | 23.29 | 23.21 |
| | | 50 | 0 | 22.26 | 22.33 | 22.32 |
| | | 50 | 25 | 22.15 | 22.32 | 22.24 |
| | | 50 | 50 | 22.29 | 22.29 | 22.29 |
| | | 100 | 0 | 22.17 | 22.27 | 22.22 |
| 20M | 16QAM | 1 | 0 | 22.12 | 22.26 | 22.18 |
| | | 1 | 50 | 22.10 | 22.24 | 22.18 |
| | | 1 | 99 | 22.12 | 22.23 | 22.14 |
| | | 50 | 0 | 21.04 | 21.15 | 21.11 |
| | | 50 | 25 | 20.97 | 20.48 | 21.06 |
| | | 50 | 50 | 20.94 | 21.12 | 20.99 |
| | | 100 | 0 | 21.02 | 21.09 | 21.03 |
| 20M | 64QAM | 1 | 0 | 20.93 | 21.03 | 20.96 |
| | | 1 | 50 | 20.90 | 20.97 | 20.93 |
| | | 1 | 99 | 20.93 | 20.99 | 20.96 |
| | | 50 | 0 | 20.18 | 20.36 | 20.27 |
| | | 50 | 25 | 20.22 | 20.29 | 20.26 |
| | | 50 | 50 | 20.07 | 20.24 | 20.14 |
| | | 100 | 0 | 20.13 | 20.23 | 20.17 |

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

| LTE Band 2 | | | | | | |
|------------|-----------|-----------------|-----------|--------|-------|--------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 18675 | 18900 | 19125 |
| | | Frequency (MHz) | | 1857.5 | 1880 | 1902.5 |
| 15M | QPSK | 1 | 0 | 23.29 | 23.34 | 23.29 |
| | | 1 | 37 | 23.23 | 23.28 | 23.24 |
| | | 1 | 74 | 23.19 | 23.27 | 23.24 |
| | | 36 | 0 | 22.16 | 22.28 | 22.28 |
| | | 36 | 19 | 22.15 | 22.28 | 22.24 |
| | | 36 | 39 | 22.21 | 22.21 | 22.22 |
| | | 75 | 0 | 22.09 | 22.22 | 22.14 |
| 15M | 16QAM | 1 | 0 | 22.10 | 22.17 | 22.12 |
| | | 1 | 37 | 22.08 | 22.17 | 22.08 |
| | | 1 | 74 | 22.03 | 22.16 | 22.05 |
| | | 36 | 0 | 20.85 | 21.05 | 20.93 |
| | | 36 | 19 | 21.00 | 21.06 | 21.04 |
| | | 36 | 39 | 20.88 | 21.04 | 21.02 |
| | | 75 | 0 | 20.94 | 21.08 | 21.02 |
| 15M | 64QAM | 1 | 0 | 20.86 | 20.99 | 20.92 |
| | | 1 | 37 | 20.83 | 20.94 | 20.91 |
| | | 1 | 74 | 20.90 | 20.95 | 20.94 |
| | | 36 | 0 | 20.08 | 20.36 | 20.20 |
| | | 36 | 19 | 20.18 | 20.22 | 20.21 |
| | | 36 | 39 | 19.99 | 20.15 | 20.05 |
| | | 75 | 0 | 20.11 | 20.16 | 20.15 |

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

| LTE Band 2 | | | | | | |
|------------|-----------|-----------------|-----------|-------|-------|-------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 18650 | 18900 | 19150 |
| | | Frequency (MHz) | | 1855 | 1880 | 1905 |
| 10M | QPSK | 1 | 0 | 23.34 | 23.25 | 23.27 |
| | | 1 | 24 | 23.30 | 23.25 | 23.30 |
| | | 1 | 49 | 23.26 | 23.22 | 23.25 |
| | | 25 | 0 | 22.25 | 22.30 | 22.30 |
| | | 25 | 12 | 22.13 | 22.25 | 22.23 |
| | | 25 | 25 | 22.24 | 22.23 | 22.27 |
| | | 50 | 0 | 22.12 | 22.27 | 22.21 |
| 10M | 16QAM | 1 | 0 | 22.09 | 22.17 | 22.10 |
| | | 1 | 24 | 22.09 | 22.15 | 22.11 |
| | | 1 | 49 | 22.05 | 22.16 | 22.14 |
| | | 25 | 0 | 20.84 | 21.00 | 20.89 |
| | | 25 | 12 | 21.04 | 21.10 | 21.07 |
| | | 25 | 25 | 20.90 | 21.12 | 21.02 |
| | | 50 | 0 | 20.97 | 20.99 | 20.95 |
| 10M | 64QAM | 1 | 0 | 20.87 | 20.94 | 20.95 |
| | | 1 | 24 | 20.87 | 20.89 | 20.87 |
| | | 1 | 49 | 20.90 | 20.97 | 20.95 |
| | | 25 | 0 | 20.13 | 20.35 | 20.17 |
| | | 25 | 12 | 20.16 | 20.22 | 20.17 |
| | | 25 | 25 | 20.03 | 20.21 | 20.11 |
| | | 50 | 0 | 20.05 | 20.20 | 20.16 |

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

| LTE Band 2 | | | | | | |
|------------|-----------|-----------------|-----------|--------|-------|--------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 18625 | 18900 | 19175 |
| | | Frequency (MHz) | | 1852.5 | 1880 | 1907.5 |
| 5M | QPSK | 1 | 0 | 23.33 | 23.25 | 23.24 |
| | | 1 | 12 | 23.25 | 23.23 | 23.26 |
| | | 1 | 24 | 23.25 | 23.21 | 23.19 |
| | | 12 | 0 | 22.19 | 22.30 | 22.28 |
| | | 12 | 6 | 22.08 | 22.28 | 22.15 |
| | | 12 | 13 | 22.24 | 22.23 | 22.19 |
| | | 25 | 0 | 22.15 | 22.24 | 22.21 |
| 5M | 16QAM | 1 | 0 | 22.10 | 22.22 | 22.10 |
| | | 1 | 12 | 22.00 | 22.20 | 22.12 |
| | | 1 | 24 | 22.11 | 22.20 | 22.10 |
| | | 12 | 0 | 20.89 | 20.99 | 20.98 |
| | | 12 | 6 | 21.00 | 21.14 | 21.09 |
| | | 12 | 13 | 20.89 | 21.07 | 20.97 |
| | | 25 | 0 | 20.92 | 21.07 | 21.03 |
| 5M | 64QAM | 1 | 0 | 20.85 | 20.96 | 20.93 |
| | | 1 | 12 | 20.89 | 20.91 | 20.85 |
| | | 1 | 24 | 20.87 | 20.91 | 20.93 |
| | | 12 | 0 | 20.09 | 20.36 | 20.21 |
| | | 12 | 6 | 20.13 | 20.29 | 20.16 |
| | | 12 | 13 | 20.00 | 20.19 | 20.14 |
| | | 25 | 0 | 20.12 | 20.23 | 20.16 |

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

| LTE Band 2 | | | | | | |
|------------|-----------|-----------------|-----------|--------|-------|--------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 18615 | 18900 | 19185 |
| | | Frequency (MHz) | | 1851.5 | 1880 | 1908.5 |
| 3M | QPSK | 1 | 0 | 23.27 | 23.28 | 23.25 |
| | | 1 | 7 | 23.27 | 23.24 | 23.30 |
| | | 1 | 14 | 23.21 | 23.22 | 23.27 |
| | | 8 | 0 | 22.25 | 22.34 | 22.29 |
| | | 8 | 3 | 22.11 | 22.29 | 22.21 |
| | | 8 | 7 | 22.26 | 22.24 | 22.26 |
| | | 15 | 0 | 22.10 | 22.24 | 22.17 |
| 3M | 16QAM | 1 | 0 | 22.08 | 22.18 | 22.15 |
| | | 1 | 7 | 22.02 | 22.24 | 22.12 |
| | | 1 | 14 | 22.12 | 22.23 | 22.04 |
| | | 8 | 0 | 20.86 | 21.07 | 20.95 |
| | | 8 | 3 | 21.03 | 21.13 | 21.06 |
| | | 8 | 7 | 20.96 | 21.08 | 20.96 |
| | | 15 | 0 | 20.96 | 21.08 | 21.03 |
| 3M | 64QAM | 1 | 0 | 20.86 | 21.00 | 20.95 |
| | | 1 | 7 | 20.82 | 20.96 | 20.92 |
| | | 1 | 14 | 20.85 | 20.99 | 20.89 |
| | | 8 | 0 | 20.08 | 20.26 | 20.26 |
| | | 8 | 3 | 20.18 | 20.24 | 20.16 |
| | | 8 | 7 | 19.98 | 20.16 | 20.13 |
| | | 15 | 0 | 20.07 | 20.16 | 20.17 |

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

| LTE Band 2 | | | | | | |
|------------|-----------|-----------------|-----------|--------|-------|--------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 18607 | 18900 | 19193 |
| | | Frequency (MHz) | | 1850.7 | 1880 | 1909.3 |
| 1.4M | QPSK | 1 | 0 | 23.30 | 23.33 | 23.31 |
| | | 1 | 2 | 23.26 | 23.23 | 23.27 |
| | | 1 | 5 | 23.23 | 23.27 | 23.28 |
| | | 3 | 0 | 22.19 | 22.25 | 22.27 |
| | | 3 | 1 | 22.15 | 22.28 | 22.22 |
| | | 3 | 3 | 22.25 | 22.28 | 22.23 |
| | | 6 | 0 | 22.11 | 22.26 | 22.19 |
| 1.4M | 16QAM | 1 | 0 | 22.04 | 22.24 | 22.10 |
| | | 1 | 2 | 22.10 | 22.19 | 22.15 |
| | | 1 | 5 | 22.07 | 22.23 | 22.05 |
| | | 3 | 0 | 20.93 | 21.08 | 20.97 |
| | | 3 | 1 | 20.99 | 21.11 | 21.09 |
| | | 3 | 3 | 20.94 | 21.12 | 20.99 |
| | | 6 | 0 | 20.98 | 21.07 | 20.95 |
| 1.4M | 64QAM | 1 | 0 | 20.88 | 20.96 | 20.87 |
| | | 1 | 2 | 20.85 | 20.92 | 20.82 |
| | | 1 | 5 | 20.79 | 20.96 | 20.75 |
| | | 3 | 0 | 20.84 | 20.84 | 20.82 |
| | | 3 | 1 | 20.71 | 20.79 | 20.69 |
| | | 3 | 3 | 20.69 | 20.74 | 20.62 |
| | | 6 | 0 | 20.16 | 20.26 | 20.12 |

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

| LTE Band 25 | | | | | | |
|-------------|-----------|-----------------|-----------|-------|--------|-------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 26140 | 26365 | 26590 |
| | | Frequency (MHz) | | 1860 | 1882.5 | 1905 |
| 20M | QPSK | 1 | 0 | 23.45 | 23.47 | 23.46 |
| | | 1 | 50 | 23.43 | 23.44 | 23.43 |
| | | 1 | 99 | 23.41 | 23.42 | 23.40 |
| | | 50 | 0 | 22.29 | 22.41 | 22.38 |
| | | 50 | 25 | 22.24 | 22.37 | 22.31 |
| | | 50 | 50 | 22.28 | 22.35 | 22.35 |
| | | 100 | 0 | 22.21 | 22.34 | 22.31 |
| 20M | 16QAM | 1 | 0 | 22.20 | 22.32 | 22.29 |
| | | 1 | 50 | 22.23 | 22.31 | 22.29 |
| | | 1 | 99 | 22.14 | 22.29 | 22.19 |
| | | 50 | 0 | 21.15 | 21.27 | 21.21 |
| | | 50 | 25 | 21.18 | 21.25 | 21.22 |
| | | 50 | 50 | 21.22 | 21.23 | 21.23 |
| | | 100 | 0 | 21.07 | 21.19 | 21.10 |
| 20M | 64QAM | 1 | 0 | 21.12 | 21.26 | 21.17 |
| | | 1 | 50 | 21.12 | 21.21 | 21.17 |
| | | 1 | 99 | 21.06 | 21.16 | 21.07 |
| | | 50 | 0 | 20.25 | 20.33 | 20.33 |
| | | 50 | 25 | 20.26 | 20.29 | 20.29 |
| | | 50 | 50 | 20.17 | 20.24 | 20.20 |
| | | 100 | 0 | 20.19 | 20.27 | 20.21 |

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

| LTE Band 25 | | | | | | |
|-------------|-----------|-----------------|-----------|--------|--------|--------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 26115 | 26365 | 26615 |
| | | Frequency (MHz) | | 1857.5 | 1882.5 | 1907.5 |
| 15M | QPSK | 1 | 0 | 23.29 | 23.30 | 23.27 |
| | | 1 | 37 | 23.25 | 23.29 | 23.30 |
| | | 1 | 74 | 23.30 | 23.28 | 23.30 |
| | | 36 | 0 | 22.23 | 22.34 | 22.35 |
| | | 36 | 19 | 22.15 | 22.33 | 22.29 |
| | | 36 | 39 | 22.19 | 22.28 | 22.33 |
| | | 75 | 0 | 22.12 | 22.28 | 22.30 |
| 15M | 16QAM | 1 | 0 | 22.15 | 22.26 | 22.20 |
| | | 1 | 37 | 22.22 | 22.31 | 22.23 |
| | | 1 | 74 | 22.06 | 22.20 | 22.10 |
| | | 36 | 0 | 21.12 | 21.17 | 21.17 |
| | | 36 | 19 | 21.17 | 21.22 | 21.12 |
| | | 36 | 39 | 21.20 | 21.16 | 21.23 |
| | | 75 | 0 | 21.03 | 21.13 | 21.09 |
| 15M | 64QAM | 1 | 0 | 21.02 | 21.20 | 21.16 |
| | | 1 | 37 | 21.07 | 21.17 | 21.16 |
| | | 1 | 74 | 21.02 | 21.11 | 21.02 |
| | | 36 | 0 | 20.19 | 20.30 | 20.32 |
| | | 36 | 19 | 20.24 | 20.22 | 20.21 |
| | | 36 | 39 | 20.07 | 20.15 | 20.12 |
| | | 75 | 0 | 20.16 | 20.27 | 20.16 |

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

| LTE Band 25 | | | | | | |
|-------------|-----------|-----------------|-----------|-------|--------|-------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 26090 | 26365 | 26640 |
| | | Frequency (MHz) | | 1855 | 1882.5 | 1910 |
| 10M | QPSK | 1 | 0 | 23.31 | 23.27 | 23.34 |
| | | 1 | 24 | 23.27 | 23.24 | 23.24 |
| | | 1 | 49 | 23.28 | 23.26 | 23.23 |
| | | 25 | 0 | 22.21 | 22.40 | 22.33 |
| | | 25 | 12 | 22.16 | 22.35 | 22.25 |
| | | 25 | 25 | 22.25 | 22.28 | 22.28 |
| | | 50 | 0 | 22.19 | 22.24 | 22.26 |
| 10M | 16QAM | 1 | 0 | 22.15 | 22.25 | 22.24 |
| | | 1 | 24 | 22.15 | 22.30 | 22.22 |
| | | 1 | 49 | 22.05 | 22.21 | 22.10 |
| | | 25 | 0 | 21.11 | 21.25 | 21.17 |
| | | 25 | 12 | 21.15 | 21.21 | 21.13 |
| | | 25 | 25 | 21.20 | 21.19 | 21.23 |
| | | 50 | 0 | 21.05 | 21.16 | 21.09 |
| 10M | 64QAM | 1 | 0 | 21.09 | 21.17 | 21.12 |
| | | 1 | 24 | 21.07 | 21.15 | 21.13 |
| | | 1 | 49 | 21.04 | 21.10 | 21.03 |
| | | 25 | 0 | 20.18 | 20.32 | 20.25 |
| | | 25 | 12 | 20.21 | 20.28 | 20.23 |
| | | 25 | 25 | 20.11 | 20.23 | 20.19 |
| | | 50 | 0 | 20.09 | 20.24 | 20.21 |

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

| LTE Band 25 | | | | | | |
|-------------|-----------|-----------------|-----------|--------|--------|--------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 26065 | 26365 | 26665 |
| | | Frequency (MHz) | | 1852.5 | 1882.5 | 1912.5 |
| 5M | QPSK | 1 | 0 | 23.32 | 23.32 | 23.29 |
| | | 1 | 12 | 23.32 | 23.26 | 23.28 |
| | | 1 | 24 | 23.29 | 23.27 | 23.21 |
| | | 12 | 0 | 22.19 | 22.34 | 22.34 |
| | | 12 | 6 | 22.19 | 22.33 | 22.22 |
| | | 12 | 13 | 22.18 | 22.33 | 22.33 |
| | | 25 | 0 | 22.11 | 22.29 | 22.28 |
| 5M | 16QAM | 1 | 0 | 22.13 | 22.24 | 22.26 |
| | | 1 | 12 | 22.19 | 22.24 | 22.21 |
| | | 1 | 24 | 22.14 | 22.27 | 22.09 |
| | | 12 | 0 | 21.10 | 21.25 | 21.17 |
| | | 12 | 6 | 21.11 | 21.18 | 21.17 |
| | | 12 | 13 | 21.18 | 21.17 | 21.14 |
| | | 25 | 0 | 20.97 | 21.15 | 21.07 |
| 5M | 64QAM | 1 | 0 | 21.07 | 21.22 | 21.08 |
| | | 1 | 12 | 21.12 | 21.17 | 21.09 |
| | | 1 | 24 | 21.01 | 21.09 | 21.03 |
| | | 12 | 0 | 20.19 | 20.31 | 20.26 |
| | | 12 | 6 | 20.25 | 20.19 | 20.28 |
| | | 12 | 13 | 20.15 | 20.18 | 20.13 |
| | | 25 | 0 | 20.15 | 20.17 | 20.19 |

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

| LTE Band 25 | | | | | | |
|-------------|-----------|-----------------|-----------|--------|--------|--------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 26055 | 26365 | 26675 |
| | | Frequency (MHz) | | 1851.5 | 1882.5 | 1913.5 |
| 3M | QPSK | 1 | 0 | 23.28 | 23.35 | 23.31 |
| | | 1 | 7 | 23.33 | 23.29 | 23.32 |
| | | 1 | 14 | 23.29 | 23.31 | 23.25 |
| | | 8 | 0 | 22.29 | 22.41 | 22.30 |
| | | 8 | 3 | 22.16 | 22.35 | 22.25 |
| | | 8 | 7 | 22.26 | 22.25 | 22.30 |
| | | 15 | 0 | 22.15 | 22.25 | 22.26 |
| 3M | 16QAM | 1 | 0 | 22.14 | 22.29 | 22.19 |
| | | 1 | 7 | 22.21 | 22.23 | 22.20 |
| | | 1 | 14 | 22.08 | 22.22 | 22.11 |
| | | 8 | 0 | 21.13 | 21.27 | 21.13 |
| | | 8 | 3 | 21.10 | 21.20 | 21.16 |
| | | 8 | 7 | 21.15 | 21.23 | 21.21 |
| | | 15 | 0 | 21.01 | 21.17 | 21.07 |
| 3M | 64QAM | 1 | 0 | 21.11 | 21.23 | 21.08 |
| | | 1 | 7 | 21.03 | 21.14 | 21.15 |
| | | 1 | 14 | 21.06 | 21.09 | 21.07 |
| | | 8 | 0 | 20.17 | 20.23 | 20.33 |
| | | 8 | 3 | 20.22 | 20.22 | 20.20 |
| | | 8 | 7 | 20.14 | 20.24 | 20.15 |
| | | 15 | 0 | 20.17 | 20.21 | 20.15 |

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

| LTE Band 25 | | | | | | |
|-------------|-----------|-----------------|-----------|--------|--------|--------|
| BW | MCS Index | RB Size | RB Offset | Low | Mid | High |
| | | Channel | | 26047 | 26365 | 26683 |
| | | Frequency (MHz) | | 1850.7 | 1882.5 | 1914.3 |
| 1.4M | QPSK | 1 | 0 | 23.26 | 23.37 | 23.33 |
| | | 1 | 2 | 23.27 | 23.30 | 23.27 |
| | | 1 | 5 | 23.30 | 23.31 | 23.25 |
| | | 3 | 0 | 22.22 | 22.38 | 22.37 |
| | | 3 | 1 | 22.15 | 22.33 | 22.31 |
| | | 3 | 3 | 22.18 | 22.25 | 22.33 |
| | | 6 | 0 | 22.13 | 22.24 | 22.22 |
| 1.4M | 16QAM | 1 | 0 | 22.17 | 22.26 | 22.23 |
| | | 1 | 2 | 22.22 | 22.22 | 22.24 |
| | | 1 | 5 | 22.11 | 22.19 | 22.09 |
| | | 3 | 0 | 21.12 | 21.24 | 21.15 |
| | | 3 | 1 | 21.18 | 21.15 | 21.16 |
| | | 3 | 3 | 21.13 | 21.09 | 21.22 |
| | | 6 | 0 | 21.03 | 21.06 | 21.01 |
| 1.4M | 64QAM | 1 | 0 | 21.12 | 21.22 | 21.16 |
| | | 1 | 2 | 21.03 | 21.16 | 21.09 |
| | | 1 | 5 | 21.02 | 21.11 | 21.08 |
| | | 3 | 0 | 21.07 | 21.14 | 21.14 |
| | | 3 | 1 | 21.03 | 21.08 | 21.08 |
| | | 3 | 3 | 20.91 | 21.04 | 21.00 |
| | | 6 | 0 | 20.18 | 20.26 | 20.21 |

*EIRP (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

4.2 Radiated Emission Measurement

4.2.1 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 .

4.2.2 Test Procedure

- a. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) 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 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- d. Following C63.26 section 5.5 and 5.2.7.
EIRP (dBm) = $E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
ERP (dBm) = $E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8 - 2.15$; where D is the measurement distance (in the far field region) in m.

Note:

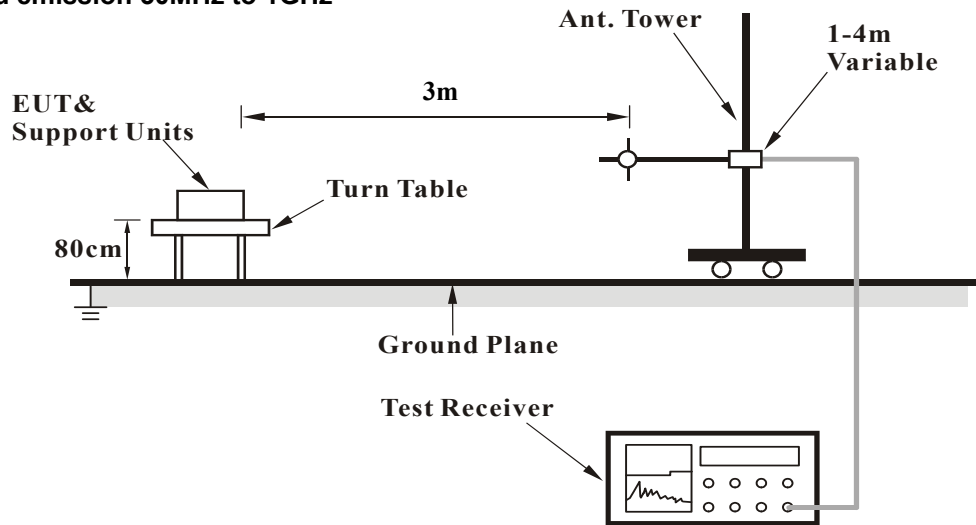
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

4.2.3 Deviation from Test Standard

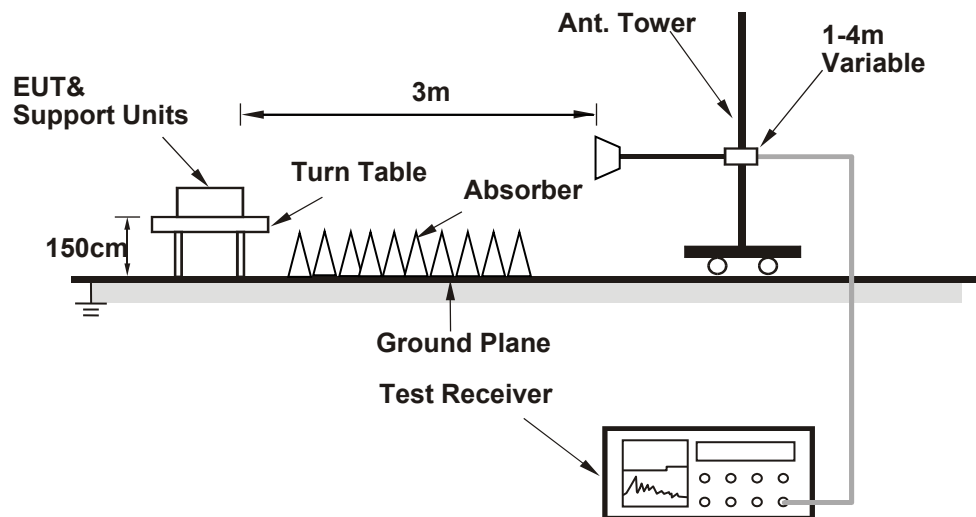
No deviation.

4.2.4 Test Setup

For radiated emission 30MHz to 1GHz



For radiated emission above 1GHz



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

4.2.5 Test Results

Below 1GHz

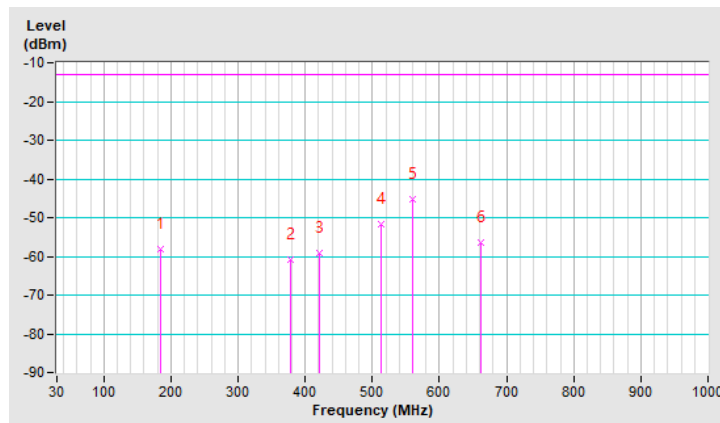
WCDMA Band 2

| | | | |
|--------------------------|--------------------------------|-----------------|-----------------------|
| Mode | TX channel 9262 (1852.4MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 23deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 185.20 | -58.17 | -13.00 | -45.17 | 1.00 H | 175 | 47.66 | -105.83 |
| 2 | 377.26 | -60.99 | -13.00 | -47.99 | 1.49 H | 40 | 40.37 | -101.36 |
| 3 | 421.88 | -59.04 | -13.00 | -46.04 | 1.00 H | 167 | 41.56 | -100.60 |
| 4 | 513.06 | -51.81 | -13.00 | -38.81 | 1.49 H | 323 | 47.42 | -99.23 |
| 5 | 559.62 | -45.27 | -13.00 | -32.27 | 1.49 H | 144 | 53.19 | -98.46 |
| 6 | 662.44 | -56.37 | -13.00 | -43.37 | 1.00 H | 6 | 39.62 | -95.99 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

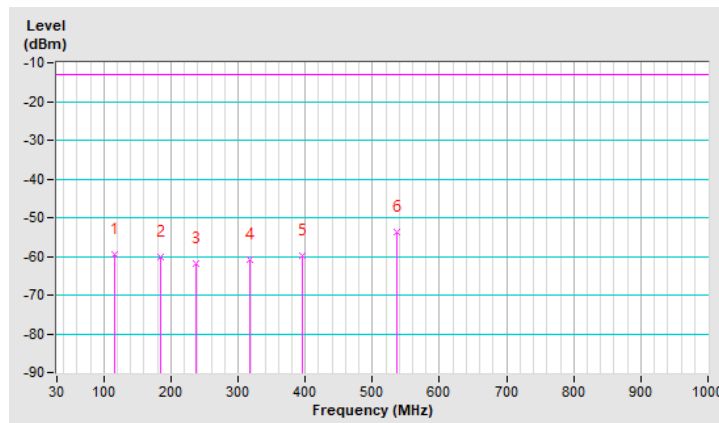


| | | | |
|--------------------------|--------------------------------|-----------------|-----------------------|
| Mode | TX channel 9262 (1852.4MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 23deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 115.36 | -59.41 | -13.00 | -46.41 | 1.01 V | 212 | 47.18 | -106.59 |
| 2 | 185.20 | -60.29 | -13.00 | -47.29 | 1.01 V | 318 | 45.54 | -105.83 |
| 3 | 237.58 | -61.74 | -13.00 | -48.74 | 1.50 V | 247 | 43.39 | -105.13 |
| 4 | 317.12 | -60.97 | -13.00 | -47.97 | 1.50 V | 6 | 41.26 | -102.23 |
| 5 | 396.66 | -59.98 | -13.00 | -46.98 | 1.50 V | 313 | 41.24 | -101.22 |
| 6 | 536.34 | -53.63 | -13.00 | -40.63 | 1.01 V | 161 | 45.22 | -98.85 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



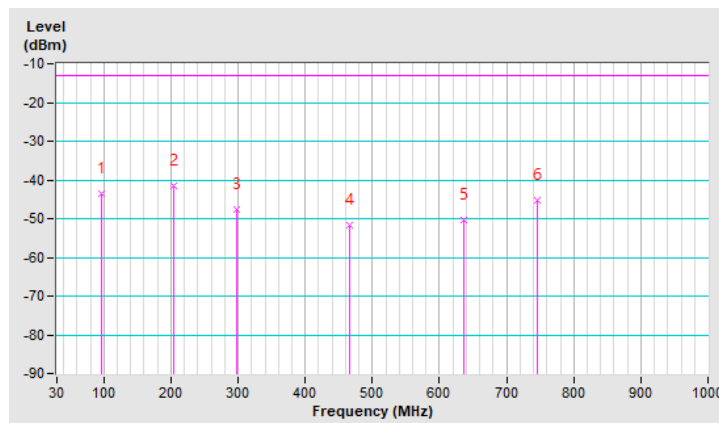
LTE Band 2, Channel Bandwidth 20MHz

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 19100 (1900.0MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 23deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 95.96 | -43.52 | -13.00 | -30.52 | 1.50 H | 186 | 65.83 | -109.35 |
| 2 | 204.60 | -41.47 | -13.00 | -28.47 | 1.50 H | 189 | 65.23 | -106.70 |
| 3 | 297.72 | -47.72 | -13.00 | -34.72 | 1.50 H | 90 | 55.05 | -102.77 |
| 4 | 466.50 | -51.61 | -13.00 | -38.61 | 1.50 H | 231 | 48.25 | -99.86 |
| 5 | 635.28 | -50.45 | -13.00 | -37.45 | 1.50 H | 124 | 45.84 | -96.29 |
| 6 | 745.86 | -45.36 | -13.00 | -32.36 | 1.01 H | 16 | 48.31 | -93.67 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

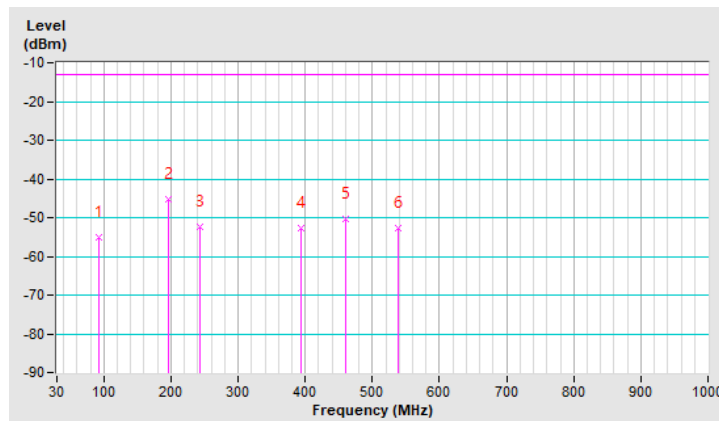


| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 19100 (1900.0MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 23deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 92.08 | -54.99 | -13.00 | -41.99 | 1.00 V | 249 | 54.43 | -109.42 |
| 2 | 196.84 | -45.41 | -13.00 | -32.41 | 1.00 V | 213 | 61.25 | -106.66 |
| 3 | 243.40 | -52.33 | -13.00 | -39.33 | 1.49 V | 284 | 52.34 | -104.67 |
| 4 | 394.72 | -52.73 | -13.00 | -39.73 | 1.49 V | 284 | 48.48 | -101.21 |
| 5 | 460.68 | -50.24 | -13.00 | -37.24 | 1.00 V | 248 | 49.62 | -99.86 |
| 6 | 538.28 | -52.80 | -13.00 | -39.80 | 1.00 V | 249 | 46.00 | -98.80 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.



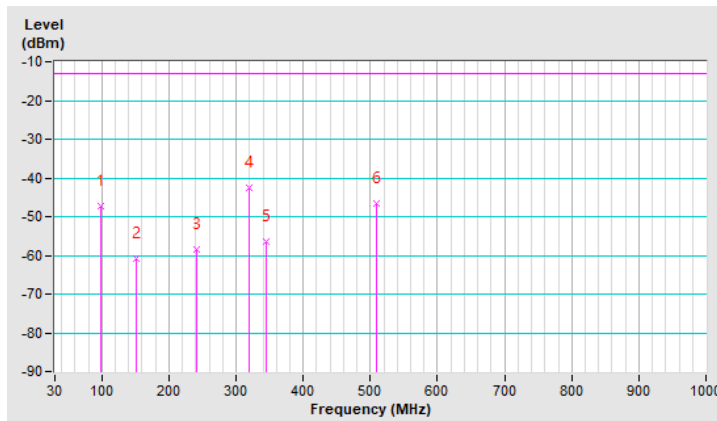
LTE Band 25, Channel Bandwidth 20MHz

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 26365 (1882.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 23deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 97.90 | -47.38 | -13.00 | -34.38 | 1.01 H | 187 | 61.44 | -108.82 |
| 2 | 152.22 | -60.78 | -13.00 | -47.78 | 1.01 H | 263 | 42.99 | -103.77 |
| 3 | 241.46 | -58.33 | -13.00 | -45.33 | 1.01 H | 83 | 46.46 | -104.79 |
| 4 | 319.06 | -42.69 | -13.00 | -29.69 | 1.50 H | 134 | 59.50 | -102.19 |
| 5 | 344.28 | -56.49 | -13.00 | -43.49 | 1.50 H | 132 | 45.57 | -102.06 |
| 6 | 509.18 | -46.71 | -13.00 | -33.71 | 1.50 H | 131 | 52.54 | -99.25 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

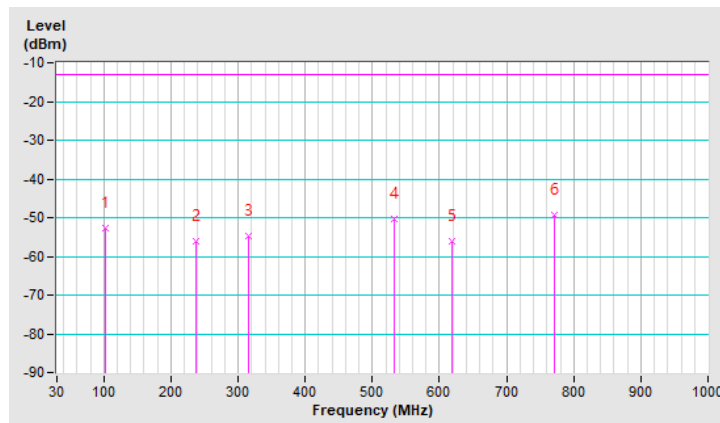


| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 26365 (1882.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 23deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 101.78 | -52.76 | -13.00 | -39.76 | 1.00 V | 13 | 55.42 | -108.18 |
| 2 | 237.58 | -56.09 | -13.00 | -43.09 | 1.00 V | 95 | 49.04 | -105.13 |
| 3 | 315.18 | -54.77 | -13.00 | -41.77 | 1.00 V | 115 | 47.51 | -102.28 |
| 4 | 532.46 | -50.34 | -13.00 | -37.34 | 1.49 V | 114 | 48.58 | -98.92 |
| 5 | 617.82 | -56.09 | -13.00 | -43.09 | 1.49 V | 16 | 40.42 | -96.51 |
| 6 | 771.08 | -49.43 | -13.00 | -36.43 | 1.49 V | 16 | 43.58 | -93.01 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.



Above 1GHz
WCDMA Band 2

| | | | |
|--------------------------|--------------------------------|-----------------|-----------------------|
| Mode | TX channel 9262 (1852.4MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3704.80 | -38.59 | -13.00 | -25.59 | 1.01 H | 67 | 49.42 | -88.01 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3704.80 | -33.83 | -13.00 | -20.83 | 1.00 V | 299 | 54.18 | -88.01 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

| | | | |
|--------------------------|--------------------------------|-----------------|-----------------------|
| Mode | TX channel 9400 (1880.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -46.24 | -13.00 | -33.24 | 1.06 H | 77 | 41.81 | -88.05 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -41.50 | -13.00 | -28.50 | 1.00 V | 303 | 46.55 | -88.05 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

| | | | |
|--------------------------|--------------------------------|-----------------|-----------------------|
| Mode | TX channel 9538 (1907.6MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3815.20 | -38.11 | -13.00 | -25.11 | 1.05 H | 62 | 49.88 | -87.99 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3815.20 | -33.70 | -13.00 | -20.70 | 1.00 V | 298 | 54.29 | -87.99 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

LTE Band 2, Channel Bandwidth 1.4MHz

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 18607 (1850.7MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3701.40 | -41.40 | -13.00 | -28.40 | 1.10 H | 73 | 46.61 | -88.01 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3701.40 | -33.50 | -13.00 | -20.50 | 1.01 V | 293 | 54.51 | -88.01 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 18900 (1880.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -41.77 | -13.00 | -28.77 | 1.00 H | 66 | 46.28 | -88.05 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -33.28 | -13.00 | -20.28 | 1.00 V | 298 | 54.77 | -88.05 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 19193 (1909.3MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3818.60 | -41.56 | -13.00 | -28.56 | 1.13 H | 66 | 46.41 | -87.97 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3818.60 | -33.37 | -13.00 | -20.37 | 1.00 V | 295 | 54.60 | -87.97 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

LTE Band 2, Channel Bandwidth 5MHz

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 18625 (1852.5MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3705.00 | -41.50 | -13.00 | -28.50 | 1.14 H | 73 | 46.51 | -88.01 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3705.00 | -33.30 | -13.00 | -20.30 | 1.01 V | 295 | 54.71 | -88.01 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 18900 (1880.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -41.57 | -13.00 | -28.57 | 1.12 H | 68 | 46.48 | -88.05 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -33.55 | -13.00 | -20.55 | 1.05 V | 299 | 54.50 | -88.05 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 19175 (1907.5MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3815.00 | -41.59 | -13.00 | -28.59 | 1.11 H | 71 | 46.40 | -87.99 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3815.00 | -33.52 | -13.00 | -20.52 | 1.00 V | 299 | 54.47 | -87.99 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

LTE Band 2, Channel Bandwidth 20MHz

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 18700 (1860.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3720.00 | -41.78 | -13.00 | -28.78 | 1.13 H | 71 | 46.24 | -88.02 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3720.00 | -33.73 | -13.00 | -20.73 | 1.03 V | 299 | 54.29 | -88.02 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 18900 (1880.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -41.72 | -13.00 | -28.72 | 1.10 H | 73 | 46.33 | -88.05 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -33.69 | -13.00 | -20.69 | 1.01 V | 293 | 54.36 | -88.05 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 19100 (1900.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3800.00 | -41.75 | -13.00 | -28.75 | 1.13 H | 71 | 46.33 | -88.08 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3800.00 | -33.17 | -13.00 | -20.17 | 1.09 V | 298 | 54.91 | -88.08 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

LTE Band 25, Channel Bandwidth 1.4MHz

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 26047 (1850.7MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3701.40 | -35.15 | -13.00 | -22.15 | 1.04 H | 61 | 52.86 | -88.01 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3701.40 | -31.48 | -13.00 | -18.48 | 1.00 V | 291 | 56.53 | -88.01 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 26365 (1882.5MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3765.00 | -35.45 | -13.00 | -22.45 | 1.09 H | 63 | 52.60 | -88.05 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3765.00 | -31.04 | -13.00 | -18.04 | 1.03 V | 293 | 57.01 | -88.05 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 26683 (1914.3MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3828.60 | -35.04 | -13.00 | -22.04 | 1.03 H | 60 | 52.86 | -87.90 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3828.60 | -30.98 | -13.00 | -17.98 | 1.02 V | 296 | 56.92 | -87.90 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

LTE Band 25, Channel Bandwidth 5MHz

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 26065 (1852.5MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3705.00 | -34.97 | -13.00 | -21.97 | 1.04 H | 63 | 53.04 | -88.01 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3705.00 | -31.22 | -13.00 | -18.22 | 1.08 V | 291 | 56.79 | -88.01 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 26365 (1882.5MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3765.00 | -35.12 | -13.00 | -22.12 | 1.08 H | 59 | 52.93 | -88.05 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3765.00 | -31.65 | -13.00 | -18.65 | 1.06 V | 290 | 56.40 | -88.05 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 26665 (1912.5MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3825.00 | -35.20 | -13.00 | -22.20 | 1.09 H | 61 | 52.72 | -87.92 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3825.00 | -31.21 | -13.00 | -18.21 | 1.08 V | 294 | 56.71 | -87.92 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

LTE Band 25, Channel Bandwidth 20MHz

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 26140 (1860.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3720.00 | -35.09 | -13.00 | -22.09 | 1.08 H | 65 | 52.93 | -88.02 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3720.00 | -31.09 | -13.00 | -18.09 | 1.06 V | 295 | 56.93 | -88.02 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 26365 (1882.5MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|---------------|---------------|---------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3765.00 | -35.52 | -13.00 | -22.52 | 1.12 H | 59 | 52.53 | -88.05 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3765.00 | -30.94 | -13.00 | -17.94 | 1.03 V | 297 | 57.11 | -88.05 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

| | | | |
|--------------------------|---------------------------------|-----------------|-----------------------|
| Mode | TX channel 26590 (1905.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH | Input Power | 120Vac, 60Hz (System) |
| Tested By | Luis Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3810.00 | -34.87 | -13.00 | -21.87 | 1.09 H | 59 | 53.15 | -88.02 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3810.00 | -31.05 | -13.00 | -18.05 | 1.02 V | 297 | 56.97 | -88.02 |

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

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 FCC recognized accredited test firms and 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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