

## FCC Test Report (Part 24)

**Report No.:** RF171206E01D-1

**FCC ID:** O9YJKS6

**Test Model:** JKS6A

**Serial Model:** JKS6B, JKS6C, JKS6D, ATS100-YZ-S, ATS100-Y-S, ATS100-Z-S,  
ATS100-S

**Received Date:** Feb. 18, 2019

**Test Date:** Feb. 25 ~ Mar. 18, 2019

**Issued Date:** Mar. 22, 2019

**Applicant:** Spireon Inc.

**Address:** 9724 Kingstone Pike, suite 800, Knoxville, Tennessee, USA, 37922

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

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan  
(R.O.C.)

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City  
33383, TAIWAN (R.O.C.)

**FCC Registration /** 788550 / TW0003

**Designation Number:**



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### Release Control Record

| Issue No.      | Description      | Date Issued   |
|----------------|------------------|---------------|
| RF171206E01D-1 | Original release | Mar. 22, 2019 |

## 1 Certificate of Conformity

**Product:** GPS Tracker

**Brand:** Spireon

**Test Model:** JKS6A

**Serial Model:** JKS6B, JKS6C, JKS6D, ATS100-YZ-S, ATS100-Y-S, ATS100-Z-S, ATS100-S

**Sample Status:** Engineering sample

**Applicant:** Spireon Inc.

**Test Date:** Feb. 25 ~ Mar. 18, 2019

**Standards:** FCC Part 24, Subpart E

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

**Prepared by :** Celine Chou , **Date:** Mar. 22, 2019  
Celine Chou / Senior Specialist

**Approved by :** Bruce Chen , **Date:** Mar. 22, 2019  
Bruce Chen / Project Engineer

## 2 Summary of Test Results

| Applied Standard: FCC Part 24 & Part 2 |                              |        |                                                                                  |
|----------------------------------------|------------------------------|--------|----------------------------------------------------------------------------------|
| FCC Clause                             | Test Item                    | Result | Remarks                                                                          |
| 2.1046<br>24.232                       | Effective radiated power     | Pass   | Meet the requirement of limit.                                                   |
| 2.1046<br>24.232(d)                    | Peak To Average Ratio        | Pass   | Meet the requirement of limit. (Note 1)                                          |
| 2.1047                                 | Modulation Characteristics   | Pass   | Meet the requirement of limit. (Note 1)                                          |
| 2.1055<br>24.235                       | Frequency Stability          | Pass   | Meet the requirement of limit. (Note 1)                                          |
| 2.1049<br>24.238(b)                    | Occupied Bandwidth           | Pass   | Meet the requirement of limit. (Note 1)                                          |
| 24.238(b)                              | Band Edge Measurements       | Pass   | Meet the requirement of limit. (Note 1)                                          |
| 2.1051<br>24.238                       | Conducted Spurious Emissions | Pass   | Meet the requirement of limit. (Note 1)                                          |
| 2.1053<br>24.238                       | Radiated Spurious Emissions  | Pass   | Meet the requirement of limit.<br>Minimum passing margin is -21.6dB at 74.62MHz. |

Note:

1. According to on KDB 996369 D02 Module Q and A v01 of Q1 requirements, test results relevant test reports from an original module filing (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG).
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    | 3.04 dB                        |
|                                | 30MHz ~ 200MHz  | 3.59 dB                        |
|                                | 200MHz ~1000MHz | 3.60 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<br>KEYSIGHT                        | N9038A                                 | MY55420137                      | Apr. 11, 2018 | Apr. 10, 2019 |
| Spectrum Analyzer<br>ROHDE & SCHWARZ             | FSP40                                  | 100269                          | May 29, 2018  | May 28, 2019  |
| BILOG Antenna<br>SCHWARZBECK                     | VULB9168                               | 9168-160                        | Nov. 21, 2018 | Nov. 20, 2019 |
| HORN Antenna<br>SCHWARZBECK                      | BBHA 9120 D                            | 9120D-1169                      | Nov. 25, 2018 | Nov. 24, 2019 |
| HORN Antenna<br>SCHWARZBECK                      | BBHA 9170                              | BBHA9170241                     | Nov. 25, 2018 | Nov. 24, 2019 |
| Loop Antenna<br>TESEQ                            | HLA 6121                               | 45745                           | Jun. 14, 2018 | Jun. 13, 2019 |
| Preamplifier<br>Agilent<br>(Below 1GHz)          | 8447D                                  | 2944A10638                      | Aug. 08, 2018 | Aug. 07, 2019 |
| Preamplifier<br>Agilent<br>(Above 1GHz)          | 8449B                                  | 3008A02367                      | Feb. 19, 2019 | Feb. 18, 2020 |
| RF signal cable<br>HUBER+SUHNER&EMCI             | SUCOFLEX 104 &<br>EMC104-SM-SM80<br>00 | CABLE-CH9-02<br>(248780+171006) | Jan. 19, 2019 | Jan. 18, 2020 |
| RF signal cable<br>HUBER+SUHNER                  | SUCOFLEX 104                           | CABLE-CH9-(250795/4)            | Aug. 08, 2018 | Aug. 07, 2019 |
| RF signal cable<br>Woken                         | 8D-FB                                  | Cable-CH9-01                    | Jul. 31, 2018 | Jul. 30, 2019 |
| Software<br>BV ADT                               | ADT_Radiated_<br>V7.6.15.9.5           | NA                              | NA            | NA            |
| Antenna Tower<br>EMCO                            | 2070/2080                              | 512.835.4684                    | NA            | NA            |
| Turn Table<br>EMCO                               | 2087-2.03                              | NA                              | NA            | NA            |
| Antenna Tower & Turn<br>BV ADT                   | AT100                                  | AT93021705                      | NA            | NA            |
| Turn Table<br>BV ADT                             | TT100                                  | TT93021705                      | NA            | NA            |
| Turn Table Controller<br>BV ADT                  | SC100                                  | SC93021705                      | NA            | NA            |
| Boresight Antenna Fixture                        | FBA-01                                 | FBA-SIP01                       | NA            | NA            |
| Pre-amplifier (18GHz-40GHz)<br>EMC               | EMC184045B                             | 980175                          | Nov. 14, 2018 | Nov. 13, 2019 |
| WIT Standard Temperature<br>And Humidity Chamber | TH-4S-C                                | W981030                         | Jun. 04, 2018 | Jun. 03, 2019 |
| JFW 20dB attenuation                             | 50HF-020-SMA                           | NA                              | NA            | NA            |

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.  
2. The test was performed in HwaYa Chamber 9.  
3. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.  
4. The IC Site Registration No. is 7450F-9.

### 3 General Information

#### 3.1 General Description of EUT

|                     |                                                                    |                  |
|---------------------|--------------------------------------------------------------------|------------------|
| Product             | GPS Tracker                                                        |                  |
| Brand               | Spireon                                                            |                  |
| Test Model          | JKS6A                                                              |                  |
| Serial Model        | JKS6B, JKS6C, JKS6D, ATS100-YZ-S, ATS100-Y-S, ATS100-Z-S, ATS100-S |                  |
| Model Difference    | Refer to note for more details                                     |                  |
| Sample Status       | Engineering sample                                                 |                  |
| Power Supply Rating | 3.7 Vdc (Battery)<br>12 Vdc (Adapter)                              |                  |
| Modulation Type     | WCDMA: QPSK<br>LTE: QPSK, 16QAM                                    |                  |
| Operating Frequency | WCDMA Band 2                                                       | 1852.4~1907.6MHz |
|                     | LTE Band 2 (Channel Bandwidth 1.4MHz)                              | 1850.7~1909.3MHz |
|                     | LTE Band 2 (Channel Bandwidth 3MHz)                                | 1851.5~1908.5MHz |
|                     | LTE Band 2 (Channel Bandwidth 5MHz)                                | 1852.5~1907.5MHz |
|                     | LTE Band 2 (Channel Bandwidth 10MHz)                               | 1855.0~1905.0MHz |
|                     | LTE Band 2 (Channel Bandwidth 15MHz)                               | 1857.5~1902.5MHz |
|                     | LTE Band 2 (Channel Bandwidth 20MHz)                               | 1860.0~1900.0MHz |
|                     | LTE Band 25 (Channel Bandwidth: 1.4MHz)                            | 1850.7~1914.3MHz |
|                     | LTE Band 25 (Channel Bandwidth: 3MHz)                              | 1851.5~1913.5MHz |
|                     | LTE Band 25 (Channel Bandwidth: 5MHz)                              | 1852.5~1912.5MHz |
|                     | LTE Band 25 (Channel Bandwidth: 10MHz)                             | 1855.0~1910.0MHz |
|                     | LTE Band 25 (Channel Bandwidth: 15MHz)                             | 1857.5~1907.5MHz |
|                     | LTE Band 25 (Channel Bandwidth: 20MHz)                             | 1860.0~1905.0MHz |

|                   |                                         |                      |                      |
|-------------------|-----------------------------------------|----------------------|----------------------|
| Max. EIRP Power   | WCDMA Band 2                            | 1122.018mW (30.5dBm) |                      |
|                   |                                         | QPSK                 | 16QAM                |
|                   | LTE Band 2 (Channel Bandwidth 1.4MHz)   | 812.831mW (29.1dBm)  | 660.639mW (28.2dBm)  |
|                   | LTE Band 2 (Channel Bandwidth 3MHz)     | 851.138mW (29.3dBm)  | 676.083mW (28.3dBm)  |
|                   | LTE Band 2 (Channel Bandwidth 5MHz)     | 794.328mW (29.0dBm)  | 616.595mW (27.9dBm)  |
|                   | LTE Band 2 (Channel Bandwidth 10MHz)    | 831.764mW (29.2dBm)  | 660.639mW (28.2dBm)  |
|                   | LTE Band 2 (Channel Bandwidth 15MHz)    | 851.138mW (29.3dBm)  | 676.083mW (28.3dBm)  |
|                   | LTE Band 2 (Channel Bandwidth 20MHz)    | 794.328mW (29.0dBm)  | 645.654mW (28.1dBm)  |
|                   | LTE Band 25 (Channel Bandwidth: 1.4MHz) | 1288.250mW (31.1dBm) | 933.254mW (29.7dBm)  |
|                   | LTE Band 25 (Channel Bandwidth: 3MHz)   | 1258.925mW (31.0dBm) | 1000.00mW (30.0dBm)  |
|                   | LTE Band 25 (Channel Bandwidth: 5MHz)   | 1174.898mW (30.7dBm) | 1000.00mW (30.0dBm)  |
|                   | LTE Band 25 (Channel Bandwidth: 10MHz)  | 1202.264mW (30.8dBm) | 912.011mW (29.6dBm)  |
|                   | LTE Band 25 (Channel Bandwidth: 15MHz)  | 1202.264mW (30.8dBm) | 1000.00mW (30.0dBm)  |
|                   | LTE Band 25 (Channel Bandwidth: 20MHz)  | 1202.264mW (30.7dBm) | 1071.519mW (30.3dBm) |
| Antenna Type      | Refer to Note as below                  |                      |                      |
| Antenna Connector | Refer to Note as below                  |                      |                      |
| Accessory Device  | NA                                      |                      |                      |
| Cable Supplied    | NA                                      |                      |                      |

Note:

1. All models are listed as below. Model JKS6A is the representative for final test.

| Brand   | Model       | Different               |
|---------|-------------|-------------------------|
| Spireon | ATS100-YZ-S | w/ battery, w/ buzzer   |
|         | JKS6A       |                         |
|         | ATS100-Y-S  | w/ battery, w/o buzzer  |
|         | JKS6B       |                         |
|         | ATS100-Z-S  | w/o battery, w/ buzzer  |
|         | JKS6C       |                         |
|         | ATS100-S    | w/o battery, w/o buzzer |
|         | JKS6D       |                         |

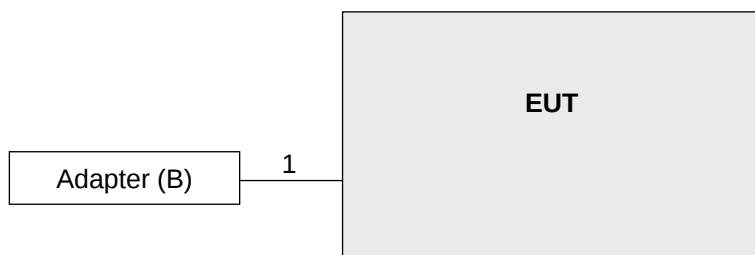
2. The EUT uses following adapter. (For support unit only)

|              |                                              |
|--------------|----------------------------------------------|
| Brand        | Chanel Well Technology                       |
| Model        | CAP012121 US                                 |
| Input Power  | 100-240Vac, 47-63Hz, 0.35A                   |
| Output Power | 12Vdc, 1A                                    |
| Power Line   | 2.15m cable without core attached on adapter |

3. The following antennas were provided to the EUT.

| Ant. No. | Type | Connector | Gain (dBi) |        |         |
|----------|------|-----------|------------|--------|---------|
|          |      |           | WCDMA B2   | LTE B2 | LTE B25 |
| 1        | PIFA | NA        | 3.6        | 3.6    | 3.6     |

### 3.2 Configuration of System under Test



Remote site



#### 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. | Radio Communication Analyzer | Anritsu                | MT8860C      | 1702001    | NA     | -                        |
| B. | Adpater                      | Chanel Well Technology | CAP012121 US | NA         | NA     | Provided by manufacturer |

Note:

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

| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks                                         |
|----|--------------|------|------------|--------------------|--------------|-------------------------------------------------|
| 1. | Power cable  | 1    | 2.15       | -                  | 0            | Provided by manufacturer<br>Attached on adapter |

### 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 and antenna ports. The worst case was found when positioned on X-plane. Following channel(s) was (were) selected for the final test as listed below.

#### WCDMA Band 2

| EUT Configure Mode | Test Item                    | Available Channel | Tested Channel                                             | Mode  |
|--------------------|------------------------------|-------------------|------------------------------------------------------------|-------|
| -                  | EIRP                         | 9262 to 9538      | 9262 (1852.4MHz),<br>9400 (1880.0MHz),<br>9538 (1907.6MHz) | WCDMA |
| -                  | Modulation characteristics   | Refer to note 1   |                                                            |       |
| -                  | Frequency Stability          |                   |                                                            |       |
| -                  | Occupied Bandwidth           |                   |                                                            |       |
| -                  | Band Edge                    |                   |                                                            |       |
| -                  | Peak To Average Ratio        |                   |                                                            |       |
| -                  | Conducted Emission           |                   |                                                            |       |
| -                  | Radiated Emission Below 1GHz | 9262 to 9538      | 9400 (1880.0MHz)                                           | WCDMA |
| -                  | Radiated Emission Above 1GHz | 9262 to 9538      | 9262 (1852.4MHz),<br>9400 (1880.0MHz),<br>9538 (1907.6MHz) | WCDMA |

Note:

1. According to on KDB 996369 D02 Module Q and A v01 of Q1 requirements, test results relevant test reports from an original module filing (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG).
2. For radiated emission below 1GHz, low, mid and high channels were pre-tested E.I.R.P. in chamber. Middle channel was found to be the worst case and therefore had been chosen for all final tests.

## LTE Band 2

| EUT Configure Mode | Test item                    | Available channel | Tested Channel                                                   | Channel Bandwidth | Modulation   | Mode               |
|--------------------|------------------------------|-------------------|------------------------------------------------------------------|-------------------|--------------|--------------------|
| -                  | EIRP                         | 18607 to 19193    | 18607 (1850.70MHz),<br>18900 (1880.00MHz),<br>19193 (1909.30MHz) | 1.4MHz            | QPSK / 16QAM | 1 RB / 0 RB Offset |
|                    |                              | 18615 to 19185    | 18615 (1851.50MHz),<br>18900 (1880.00MHz),<br>19185 (1908.50MHz) | 3MHz              | QPSK / 16QAM | 1 RB / 0 RB Offset |
|                    |                              | 18625 to 19175    | 18625 (1852.50MHz),<br>18900 (1880.00MHz),<br>19175 (1907.50MHz) | 5MHz              | QPSK / 16QAM | 1 RB / 0 RB Offset |
|                    |                              | 18650 to 19150    | 18650 (1855.00MHz),<br>18900 (1880.00MHz),<br>19150 (1905.00MHz) | 10MHz             | QPSK / 16QAM | 1 RB / 0 RB Offset |
|                    |                              | 18675 to 19125    | 18675 (1857.50MHz),<br>18900 (1880.00MHz),<br>19125 (1902.50MHz) | 15MHz             | QPSK / 16QAM | 1 RB / 0 RB Offset |
|                    |                              | 18700 to 19100    | 18700 (1860.00MHz),<br>18900 (1880.00MHz),<br>19100 (1900.00MHz) | 20MHz             | QPSK / 16QAM | 1 RB / 0 RB Offset |
| -                  | Modulation Characteristics   | Refer to note 1   |                                                                  |                   |              |                    |
| -                  | Frequency Stability          |                   |                                                                  |                   |              |                    |
| -                  | Occupied Bandwidth           |                   |                                                                  |                   |              |                    |
| -                  | Band Edge                    |                   |                                                                  |                   |              |                    |
| -                  | Peak to Average Ratio        |                   |                                                                  |                   |              |                    |
| -                  | Conducted Emission           |                   |                                                                  |                   |              |                    |
| -                  | Radiated Emission Below 1GHz | 18607 to 19193    | 18607 (1850.70MHz)                                               | 1.4MHz            | QPSK         | 1 RB / 0 RB Offset |
|                    |                              | 18625 to 19175    | 18625 (1852.50MHz)                                               | 5MHz              | QPSK         | 1 RB / 0 RB Offset |
|                    |                              | 18700 to 19100    | 18700 (1860.00MHz)                                               | 20MHz             | QPSK         | 1 RB / 0 RB Offset |
| -                  | Radiated Emission Above 1GHz | 18607 to 19193    | 18607 (1850.70MHz),<br>18900 (1880.00MHz),<br>19193 (1909.30MHz) | 1.4MHz            | QPSK         | 1 RB / 0 RB Offset |
|                    |                              | 18625 to 19175    | 18625 (1852.50MHz),<br>18900 (1880.00MHz),<br>19175 (1907.50MHz) | 5MHz              | QPSK         | 1 RB / 0 RB Offset |
|                    |                              | 18700 to 19100    | 18700 (1860.00MHz),<br>18900 (1880.00MHz),<br>19100 (1900.00MHz) | 20MHz             | QPSK         | 1 RB / 0 RB Offset |

### Note:

1. According to on KDB 996369 D02 Module Q and A v01 of Q1 requirements, test results relevant test reports from an original module filing (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG).
2. 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.
3. For radiated emission below 1GHz, low, mid and high channels were pre-tested in chamber. Low channel was the worst case for all final tests.
4. The EIRP for QPSK and 16QAM, measured value of QPSK is higher than 16QAM mode. Therefore, only EIRP had been tested under QPSK and 16QAM modes, the other test items were performed under QPSK mode only.

# LTE Band 25

| EUT Configure Mode | Test item                    | Available channel | Tested Channel                                                | Channel Bandwidth | Modulation   | Mode               |
|--------------------|------------------------------|-------------------|---------------------------------------------------------------|-------------------|--------------|--------------------|
| -                  | EIRP                         | 26047 to 26683    | 26047 (1850.7MHz),<br>26365 (1882.5MHz),<br>26683 (1914.3MHz) | 1.4MHz            | QPSK / 16QAM | 1 RB / 0 RB Offset |
|                    |                              | 26055 to 26675    | 26055 (1851.5MHz),<br>26365 (1882.5MHz),<br>26675 (1913.5MHz) | 3MHz              | QPSK / 16QAM | 1 RB / 0 RB Offset |
|                    |                              | 26065 to 26665    | 26065 (1852.5MHz),<br>26365 (1882.5MHz),<br>26665 (1912.5MHz) | 5MHz              | QPSK / 16QAM | 1 RB / 0 RB Offset |
|                    |                              | 26090 to 26640    | 26090 (1855.0MHz),<br>26365 (1882.5MHz),<br>26640 (1910.0MHz) | 10MHz             | QPSK / 16QAM | 1 RB / 0 RB Offset |
|                    |                              | 26115 to 26615    | 26115 (1857.5MHz),<br>26365 (1882.5MHz),<br>26615 (1907.5MHz) | 15MHz             | QPSK / 16QAM | 1 RB / 0 RB Offset |
|                    |                              | 26140 to 26590    | 26140 (1860.0MHz),<br>26365 (1882.5MHz),<br>26590 (1905.0MHz) | 20MHz             | QPSK / 16QAM | 1 RB / 0 RB Offset |
| -                  | Modulation Characteristics   | Refer to note 1   |                                                               |                   |              |                    |
| -                  | Frequency Stability          |                   |                                                               |                   |              |                    |
| -                  | Occupied Bandwidth           |                   |                                                               |                   |              |                    |
| -                  | Band Edge                    |                   |                                                               |                   |              |                    |
| -                  | Peak to Average Ratio        |                   |                                                               |                   |              |                    |
| -                  | Conducted Emission           |                   |                                                               |                   |              |                    |
| -                  | Radiated Emission Below 1GHz | 26047 to 26683    | 26047 (1850.7MHz)                                             | 1.4MHz            | QPSK         | 1 RB / 0 RB Offset |
|                    |                              | 26065 to 26665    | 26065 (1852.5MHz)                                             | 5MHz              | QPSK         | 1 RB / 0 RB Offset |
|                    |                              | 26140 to 26590    | 26140 (1860.0MHz)                                             | 20MHz             | QPSK         | 1 RB / 0 RB Offset |
| -                  | Radiated Emission Above 1GHz | 26047 to 26683    | 26047 (1850.7MHz),<br>26365 (1882.5MHz),<br>26683 (1914.3MHz) | 1.4MHz            | QPSK         | 1 RB / 0 RB Offset |
|                    |                              | 26065 to 26665    | 26065 (1852.5MHz),<br>26365 (1882.5MHz),<br>26665 (1912.5MHz) | 5MHz              | QPSK         | 1 RB / 0 RB Offset |
|                    |                              | 26140 to 26590    | 26140 (1860.0MHz),<br>26365 (1882.5MHz),<br>26590 (1905.0MHz) | 20MHz             | QPSK         | 1 RB / 0 RB Offset |

## Note:

- According to on KDB 996369 D02 Module Q and A v01 of Q1 requirements, test results relevant test reports from an original module filing (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG).
- 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.
- For radiated emission below 1GHz, low, mid and high channels were pre-tested in chamber. Low channel was the worst case for all final tests.
- The EIRP for QPSK and 16QAM, measured value of QPSK is higher than 16QAM mode. Therefore, only EIRP had been tested under QPSK and 16QAM modes, the other test items were performed under QPSK mode only.

Test Condition:

| Test Item                  | Environmental Conditions | Input Power (system) | Tested By |
|----------------------------|--------------------------|----------------------|-----------|
| EIRP                       | 24deg. C, 68%RH          | 120Vac, 60Hz         | Greg Lin  |
| Modulation Characteristics | Refer to note            |                      |           |
| Frequency Stability        |                          |                      |           |
| Occupied Bandwidth         |                          |                      |           |
| Band Edge                  |                          |                      |           |
| Peak To Average Ratio      |                          |                      |           |
| Conducted Emission         |                          |                      |           |
| Radiated Emission          | 24deg. C, 68%RH          | 120Vac, 60Hz         | Greg Lin  |

Note: According to on KDB 996369 D02 Module Q and A v01 of Q1 requirements, test results relevant test reports from an original module filing (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG).

### 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

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

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 24**

**KDB 971168 D01 Power Meas License Digital Systems v03r01**

**ANSI/TIA/EIA-603-E 2016**

**ANSI 63.26-2015**

**ANSI 63.2 -1996**

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

##### EIRP / ERP Measurement:

- All measurements were done at low, middle and high operational frequency range. RBW and VBW is 5MHz for WCDMA mode and 10MHz for LTE mode.
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G
- $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$ . E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15\text{dBi}$ .

Where:

$$ERP/EIRP = P_{Meas} + G_T - L_C$$

$P_{Meas}$  : Measure transmitter output power.

$G_T$  : Gain of the transmitting antenna.

$L_C$  : signal attenuation in the connecting cable between the transmitter and antenna.

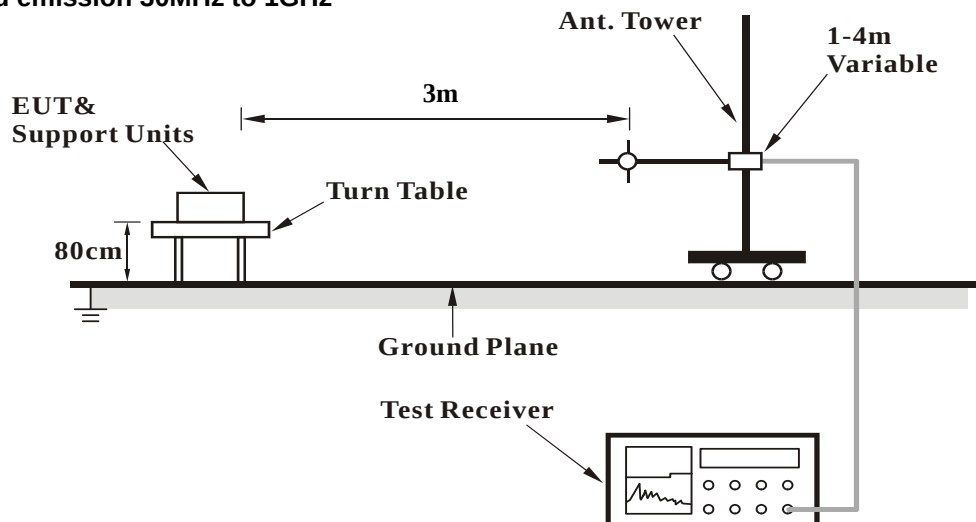
##### Conducted Power Measurement:

Please refer to module (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG) Report.

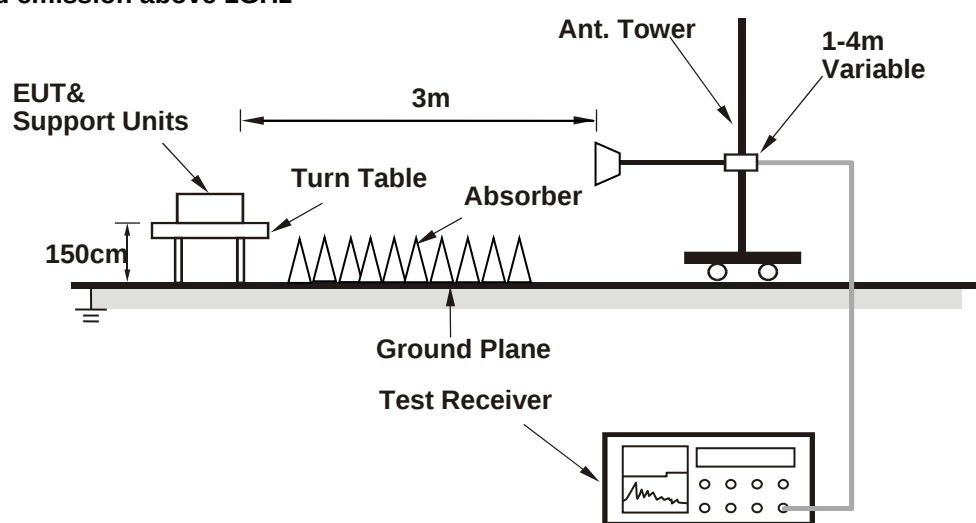
#### 4.1.3 Test Setup

##### EIRP / ERP Measurement:

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).

##### Conducted Power Measurement:

Please refer to module (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG) Report.

#### 4.1.4 Test Results

##### Conducted Output Power (dBm)

Test results relevant test reports from an original module filing (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG), for more details (statement and explanations) please refer to declaration letter.

# EIRP Power

WCDMA Band 2

|                                                     |             |                 |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|-----------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 9262 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                 |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)   | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1852.40     | -9.8            | 30.4                  | 0.1                    | 30.5       | 33.0        | -2.5        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                 |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)   | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1852.40     | -15.4           | 25.0                  | 0.1                    | 25.1       | 33.0        | -7.9        |

|                                                     |             |                 |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|-----------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 9400 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                 |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)   | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -10.3           | 30.2                  | 0.0                    | 30.2       | 33.0        | -2.8        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                 |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)   | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -15.7           | 24.9                  | 0.0                    | 24.9       | 33.0        | -8.1        |

|                                                     |             |                 |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|-----------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 9538 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                 |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)   | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1907.60     | -10.1           | 30.6                  | -0.1                   | 30.5       | 33.0        | -2.5        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                 |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)   | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1907.60     | -15.8           | 25.0                  | -0.1                   | 24.9       | 33.0        | -8.1        |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

# Modulation Type: QPSK

LTE Band 2, Channel Bandwidth 1.4MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18607 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1850.70     | -11.6            | 28.6                  | 0.1                    | 28.7       | 33.0        | -4.3        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1850.70     | -21.0            | 19.4                  | 0.1                    | 19.5       | 33.0        | -13.5       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18900 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -11.4            | 29.1                  | 0.0                    | 29.1       | 33.0        | -3.9        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -21.4            | 19.2                  | 0.0                    | 19.2       | 33.0        | -13.8       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 19193 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1909.30     | -11.5            | 29.2                  | -0.1                   | 29.1       | 33.0        | -3.9        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1909.30     | -20.9            | 19.9                  | -0.1                   | 19.8       | 33.0        | -13.2       |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 2, Channel Bandwidth 3MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18615 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1851.50     | -11.7            | 28.5                  | 0.1                    | 28.6       | 33.0        | -4.4        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1851.50     | -21.5            | 18.9                  | 0.1                    | 19.0       | 33.0        | -14.0       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18900 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -11.8            | 28.7                  | 0.0                    | 28.7       | 33.0        | -4.3        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -20.6            | 20.0                  | 0.0                    | 20.0       | 33.0        | -13.0       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 19185 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1908.50     | -11.3            | 29.4                  | -0.1                   | 29.3       | 33.0        | -3.7        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1908.50     | -21.2            | 19.6                  | -0.1                   | 19.5       | 33.0        | -13.5       |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 2, Channel Bandwidth 5MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18625 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1852.50     | -12.0            | 28.2                  | 0.1                    | 28.3       | 33.0        | -4.7        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1852.50     | -20.8            | 19.6                  | 0.1                    | 19.7       | 33.0        | -13.3       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18900 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -11.7            | 28.8                  | 0.0                    | 28.8       | 33.0        | -4.2        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -20.9            | 19.7                  | 0.0                    | 19.7       | 33.0        | -13.3       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 19175 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1907.50     | -11.6            | 29.1                  | -0.1                   | 29.0       | 33.0        | -4.0        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1907.50     | -21.3            | 19.5                  | -0.1                   | 19.4       | 33.0        | -13.6       |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 2, Channel Bandwidth 10MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18650 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1855.00     | -11.4            | 28.9                  | 0.0                    | 28.9       | 33.0        | -4.1        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1855.00     | -20.6            | 19.9                  | 0.0                    | 19.9       | 33.0        | -13.1       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18900 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -11.3            | 29.2                  | 0.0                    | 29.2       | 33.0        | -3.8        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -21.0            | 19.6                  | 0.0                    | 19.6       | 33.0        | -13.4       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 19150 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1905.00     | -11.5            | 29.2                  | -0.1                   | 29.1       | 33.0        | -3.9        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1905.00     | -20.5            | 20.3                  | -0.1                   | 20.2       | 33.0        | -12.8       |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 2, Channel Bandwidth 15MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18675 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1857.50     | -12.1            | 28.2                  | 0.0                    | 28.2       | 33.0        | -4.8        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1857.50     | -20.9            | 19.6                  | 0.0                    | 19.6       | 33.0        | -13.4       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18900 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -11.2            | 29.3                  | 0.0                    | 29.3       | 33.0        | -3.7        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -20.7            | 19.9                  | 0.0                    | 19.9       | 33.0        | -13.1       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 19125 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1902.50     | -11.6            | 29.1                  | -0.1                   | 29.0       | 33.0        | -4.0        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1902.50     | -20.8            | 20.0                  | -0.1                   | 19.9       | 33.0        | -13.1       |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 2, Channel Bandwidth 20MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18700 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1860.00     | -11.3            | 29.0                  | 0.0                    | 29.0       | 33.0        | -4.0        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1860.00     | -21.0            | 19.5                  | 0.0                    | 19.5       | 33.0        | -13.5       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18900 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -11.6            | 28.9                  | 0.0                    | 28.9       | 33.0        | -4.1        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -20.9            | 19.7                  | 0.0                    | 19.7       | 33.0        | -13.3       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 19100 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1900.00     | -11.9            | 28.8                  | -0.1                   | 28.7       | 33.0        | -4.3        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1900.00     | -21.3            | 19.5                  | -0.1                   | 19.4       | 33.0        | -13.6       |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 25, Channel Bandwidth 1.4MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26047 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1850.70     | -9.6             | 30.6                  | 0.1                    | 30.7       | 33.0        | -2.3        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1850.70     | -16.6            | 23.8                  | 0.1                    | 23.9       | 33.0        | -9.1        |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26365 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -9.8             | 30.7                  | 0.0                    | 30.7       | 33.0        | -2.3        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -16.9            | 23.7                  | 0.0                    | 23.7       | 33.0        | -9.3        |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26683 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1914.30     | -9.4             | 31.2                  | -0.1                   | 31.1       | 33.0        | -1.9        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1914.30     | -16.7            | 24.1                  | -0.1                   | 24.0       | 33.0        | -9.0        |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 25, Channel Bandwidth 3MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26055 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1851.50     | -9.9             | 30.3                  | 0.1                    | 30.4       | 33.0        | -2.6        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1851.50     | -16.7            | 23.7                  | 0.1                    | 23.8       | 33.0        | -9.2        |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26365 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -9.5             | 31.0                  | 0.0                    | 31.0       | 33.0        | -2.0        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -16.8            | 23.8                  | 0.0                    | 23.8       | 33.0        | -9.2        |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26675 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1913.50     | -10.3            | 30.3                  | -0.1                   | 30.2       | 33.0        | -2.8        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1913.50     | -16.9            | 23.9                  | -0.1                   | 23.8       | 33.0        | -9.2        |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 25, Channel Bandwidth 5MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26065 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1852.50     | -9.9             | 30.3                  | 0.1                    | 30.4       | 33.0        | -2.6        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1852.50     | -16.7            | 23.7                  | 0.1                    | 23.8       | 33.0        | -9.2        |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26365 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -9.8             | 30.7                  | 0.0                    | 30.7       | 33.0        | -2.3        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -16.8            | 23.8                  | 0.0                    | 23.8       | 33.0        | -9.2        |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26665 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1912.50     | -10.0            | 30.6                  | -0.1                   | 30.5       | 33.0        | -2.5        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1912.50     | -16.9            | 23.9                  | -0.1                   | 23.8       | 33.0        | -9.2        |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 25, Channel Bandwidth 10MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26090 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1855.00     | -9.5             | 30.8                  | 0.0                    | 30.8       | 33.0        | -2.2        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1855.00     | -16.7            | 23.8                  | 0.0                    | 23.8       | 33.0        | -9.2        |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26365 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -9.8             | 30.7                  | 0.0                    | 30.7       | 33.0        | -2.3        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -16.3            | 24.3                  | 0.0                    | 24.3       | 33.0        | -8.7        |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26640 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1910.00     | -9.7             | 30.9                  | -0.1                   | 30.8       | 33.0        | -2.2        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1910.00     | -16.5            | 24.3                  | -0.1                   | 24.2       | 33.0        | -8.8        |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 25, Channel Bandwidth 15MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26115 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1857.50     | -9.5             | 30.8                  | 0.0                    | 30.8       | 33.0        | -2.2        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1857.50     | -17.0            | 23.5                  | 0.0                    | 23.5       | 33.0        | -9.5        |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26365 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -9.7             | 30.8                  | 0.0                    | 30.8       | 33.0        | -2.2        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -16.7            | 23.9                  | 0.0                    | 23.9       | 33.0        | -9.1        |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26615 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1907.50     | -9.9             | 30.8                  | -0.1                   | 30.7       | 33.0        | -2.3        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1907.50     | -16.2            | 24.6                  | -0.1                   | 24.5       | 33.0        | -8.5        |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 25, Channel Bandwidth 20MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26140 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1860.00     | -9.9             | 30.4                  | 0.0                    | 30.4       | 33.0        | -2.6        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1860.00     | -16.6            | 23.9                  | 0.0                    | 23.9       | 33.0        | -9.1        |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26365 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -10.0            | 30.5                  | 0.0                    | 30.5       | 33.0        | -2.5        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -16.8            | 23.8                  | 0.0                    | 23.8       | 33.0        | -9.2        |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26590 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1905.00     | -9.9             | 30.8                  | -0.1                   | 30.7       | 33.0        | -2.3        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1905.00     | -17.0            | 23.8                  | -0.1                   | 23.7       | 33.0        | -9.3        |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

# Modulation Type: 16QAM

LTE Band 2, Channel Bandwidth 1.4MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18607 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1850.70     | -12.4            | 27.8                  | 0.1                    | 27.9       | 33.0        | -5.1        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1850.70     | -21.8            | 18.6                  | 0.1                    | 18.7       | 33.0        | -14.3       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18900 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -12.3            | 28.2                  | 0.0                    | 28.2       | 33.0        | -4.8        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -22.4            | 18.2                  | 0.0                    | 18.2       | 33.0        | -14.8       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 19193 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1909.30     | -12.4            | 28.3                  | -0.1                   | 28.2       | 33.0        | -4.8        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1909.30     | -22.1            | 18.7                  | -0.1                   | 18.6       | 33.0        | -14.4       |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 2, Channel Bandwidth 3MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18615 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1851.50     | -12.6            | 27.6                  | 0.1                    | 27.7       | 33.0        | -5.3        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1851.50     | -22.6            | 17.8                  | 0.1                    | 17.9       | 33.0        | -15.1       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18900 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -12.9            | 27.6                  | 0.0                    | 27.6       | 33.0        | -5.4        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -21.6            | 19.0                  | 0.0                    | 19.0       | 33.0        | -14.0       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 19185 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1908.50     | -12.3            | 28.4                  | -0.1                   | 28.3       | 33.0        | -4.7        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1908.50     | -22.4            | 18.4                  | -0.1                   | 18.3       | 33.0        | -14.7       |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 2, Channel Bandwidth 5MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18625 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1852.50     | -12.9            | 27.3                  | 0.1                    | 27.4       | 33.0        | -5.6        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1852.50     | -21.8            | 18.6                  | 0.1                    | 18.7       | 33.0        | -14.3       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18900 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -12.6            | 27.9                  | 0.0                    | 27.9       | 33.0        | -5.1        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -21.7            | 18.9                  | 0.0                    | 18.9       | 33.0        | -14.1       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 19175 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1907.50     | -12.7            | 28.0                  | -0.1                   | 27.9       | 33.0        | -5.1        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1907.50     | -22.2            | 18.6                  | -0.1                   | 18.5       | 33.0        | -14.5       |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 2, Channel Bandwidth 10MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18650 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1855.00     | -12.5            | 27.8                  | 0.0                    | 27.8       | 33.0        | -5.2        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1855.00     | -21.7            | 18.8                  | 0.0                    | 18.8       | 33.0        | -14.2       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18900 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -12.3            | 28.2                  | 0.0                    | 28.2       | 33.0        | -4.8        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -21.9            | 18.7                  | 0.0                    | 18.7       | 33.0        | -14.3       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 19150 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1905.00     | -12.6            | 28.1                  | -0.1                   | 28.0       | 33.0        | -5.0        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1905.00     | -21.7            | 19.1                  | -0.1                   | 19.0       | 33.0        | -14.0       |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 2, Channel Bandwidth 15MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18675 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1857.50     | -13.1            | 27.2                  | 0.0                    | 27.2       | 33.0        | -5.8        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1857.50     | -21.9            | 18.6                  | 0.0                    | 18.6       | 33.0        | -14.4       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18900 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -12.2            | 28.3                  | 0.0                    | 28.3       | 33.0        | -4.7        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -21.7            | 18.9                  | 0.0                    | 18.9       | 33.0        | -14.1       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 19125 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1902.50     | -12.5            | 28.2                  | -0.1                   | 28.1       | 33.0        | -4.9        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1902.50     | -21.6            | 19.2                  | -0.1                   | 19.1       | 33.0        | -13.9       |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

## LTE Band 2, Channel Bandwidth 20MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18700 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1860.00     | -12.2            | 28.1                  | 0.0                    | 28.1       | 33.0        | -4.9        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1860.00     | -21.9            | 18.6                  | 0.0                    | 18.6       | 33.0        | -14.4       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 18900 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -12.5            | 28.0                  | 0.0                    | 28.0       | 33.0        | -5.0        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1880.00     | -22.1            | 18.5                  | 0.0                    | 18.5       | 33.0        | -14.5       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| Mode                                                |             | TX channel 19100 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1900.00     | -12.8            | 27.9                  | -0.1                   | 27.8       | 33.0        | -5.2        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1900.00     | -22.3            | 18.5                  | -0.1                   | 18.4       | 33.0        | -14.6       |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 25, Channel Bandwidth 1.4MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26047 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1850.70     | -10.6            | 29.6                  | 0.1                    | 29.7       | 33.0        | -3.3        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1850.70     | -17.2            | 23.2                  | 0.1                    | 23.3       | 33.0        | -9.7        |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26365 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -11.2            | 29.3                  | 0.0                    | 29.3       | 33.0        | -3.7        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -17.3            | 23.3                  | 0.0                    | 23.3       | 33.0        | -9.7        |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26683 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1914.30     | -11.3            | 29.3                  | -0.1                   | 29.2       | 33.0        | -3.8        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1914.30     | -18.2            | 22.6                  | -0.1                   | 22.5       | 33.0        | -10.5       |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 25, Channel Bandwidth 3MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26055 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1851.50     | -10.3            | 29.9                  | 0.1                    | 30.0       | 33.0        | -3.0        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1851.50     | -17.3            | 23.1                  | 0.1                    | 23.2       | 33.0        | -9.8        |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26365 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -11.2            | 29.3                  | 0.0                    | 29.3       | 33.0        | -3.7        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -11.3            | 29.3                  | 0.0                    | 29.3       | 33.0        | -3.7        |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26675 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1913.50     | -10.7            | 29.9                  | -0.1                   | 29.8       | 33.0        | -3.2        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1913.50     | -18.1            | 22.7                  | -0.1                   | 22.6       | 33.0        | -10.4       |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 25, Channel Bandwidth 5MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26065 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1852.50     | -10.3            | 29.9                  | 0.1                    | 30.0       | 33.0        | -3.0        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1852.50     | -17.7            | 22.7                  | 0.1                    | 22.8       | 33.0        | -10.2       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26365 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -11.1            | 29.4                  | 0.0                    | 29.4       | 33.0        | -3.6        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -17.4            | 23.2                  | 0.0                    | 23.2       | 33.0        | -9.8        |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26665 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1912.50     | -11.0            | 29.6                  | -0.1                   | 29.5       | 33.0        | -3.5        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1912.50     | -17.6            | 23.2                  | -0.1                   | 23.1       | 33.0        | -9.9        |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 25, Channel Bandwidth 10MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26090 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1855.00     | -10.8            | 29.5                  | 0.0                    | 29.5       | 33.0        | -3.5        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1855.00     | -17.1            | 23.4                  | 0.0                    | 23.4       | 33.0        | -9.6        |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26365 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -11.0            | 29.5                  | 0.0                    | 29.5       | 33.0        | -3.5        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -17.6            | 23.0                  | 0.0                    | 23.0       | 33.0        | -10.0       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26640 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1910.00     | -10.9            | 29.7                  | -0.1                   | 29.6       | 33.0        | -3.4        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1910.00     | -17.8            | 23.0                  | -0.1                   | 22.9       | 33.0        | -10.1       |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 25, Channel Bandwidth 15MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26115 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1857.50     | -10.4            | 29.9                  | 0.0                    | 29.9       | 33.0        | -3.1        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1857.50     | -17.6            | 22.9                  | 0.0                    | 22.9       | 33.0        | -10.1       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26365 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -10.5            | 30.0                  | 0.0                    | 30.0       | 33.0        | -3.0        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -17.9            | 22.7                  | 0.0                    | 22.7       | 33.0        | -10.3       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26615 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1907.50     | -10.6            | 30.1                  | -0.1                   | 30.0       | 33.0        | -3.0        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1907.50     | -17.1            | 23.7                  | -0.1                   | 23.6       | 33.0        | -9.4        |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

LTE Band 25, Channel Bandwidth 20MHz

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26140 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1860.00     | -10.7            | 29.6                  | 0.0                    | 29.6       | 33.0        | -3.4        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1860.00     | -17.9            | 22.6                  | 0.0                    | 22.6       | 33.0        | -10.4       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26365 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -11.0            | 29.5                  | 0.0                    | 29.5       | 33.0        | -3.5        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1882.50     | -17.8            | 22.8                  | 0.0                    | 22.8       | 33.0        | -10.2       |

|                                                     |             |                  |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|------------------|-----------------------|------------------------|------------|-------------|-------------|
| MODE                                                |             | TX channel 26590 |                       |                        |            |             |             |
| Antenna Polarity & Test Distance: Horizontal at 3 M |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1905.00     | -10.3            | 30.4                  | -0.1                   | 30.3       | 33.0        | -2.7        |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |                  |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm)    | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 1905.00     | -17.4            | 23.4                  | -0.1                   | 23.3       | 33.0        | -9.7        |

Note: EIRP (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

## **4.2 Modulation Characteristics Measurement**

### **4.2.1 Limits of Modulation Characteristics**

N/A

### **4.2.2 Test Procedure**

Please refer to module (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG) Report.

### **4.2.3 Test Setup**

Please refer to module (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG) Report.

### **4.2.4 Test Results**

Test results relevant test reports from an original module filing (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG), for more details (statement and explanations) please refer to declaration letter.

### **4.3 Frequency Stability Measurement**

#### **4.3.1 Limits of Frequency Stability Measurement**

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

#### **4.3.2 Test Procedure**

Please refer to module (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG) Report.

#### **4.3.3 Conducted Setup**

Please refer to module (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG) Report.

#### **4.3.4 Test Results**

Test results relevant test reports from an original module filing (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG), for more details (statement and explanations) please refer to declaration letter.

#### **4.4 Occupied Bandwidth Measurement**

##### **4.4.1 Test Procedure**

Please refer to module (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG) Report.

##### **4.4.2 Test Setup**

Please refer to module (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG) Report.

##### **4.4.3 Test Result**

Test results relevant test reports from an original module filing (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG), for more details (statement and explanations) please refer to declaration letter.

## **4.5 Band Edge Measurement**

### **4.5.1 Limits of Band Edge Measurement**

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

### **4.5.2 Test Setup**

Please refer to module (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG) Report.

### **4.5.3 Test Procedures**

Please refer to module (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG) Report.

### **4.5.4 Test Results**

Test results relevant test reports from an original module filing (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG), for more details (statement and explanations) please refer to declaration letter.

## **4.6 Peak to Average Ratio**

### **4.6.1 Limits of Peak to Average Ratio Measurement**

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

### **4.6.2 Test Setup**

Please refer to module (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG) Report.

### **4.6.3 Test Procedures**

Please refer to module (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG) Report.

### **4.6.4 Test Results**

Test results relevant test reports from an original module filing (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG), for more details (statement and explanations) please refer to declaration letter.

## **4.7 Conducted Spurious Emissions**

### **4.7.1 Limits of Conducted Spurious Emissions Measurement**

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

### **4.7.2 Test Setup**

Please refer to module (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG) Report.

### **4.7.3 Test Procedure**

Please refer to module (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG) Report.

### **4.7.4 Test Results**

Test results relevant test reports from an original module filing (Brand: Wistron NeWeb Corporation, Model: M14Q2SG, FCC ID: NKRM14Q2SG), for more details (statement and explanations) please refer to declaration letter.

## **4.8 Radiated Emission Measurement**

### **4.8.1 Limits of Radiated Emission Measurement**

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

### **4.8.2 Test Procedure**

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c.  $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $\text{E.R.P power} = \text{E.I.R.P power} - 2.15\text{dBi}.$

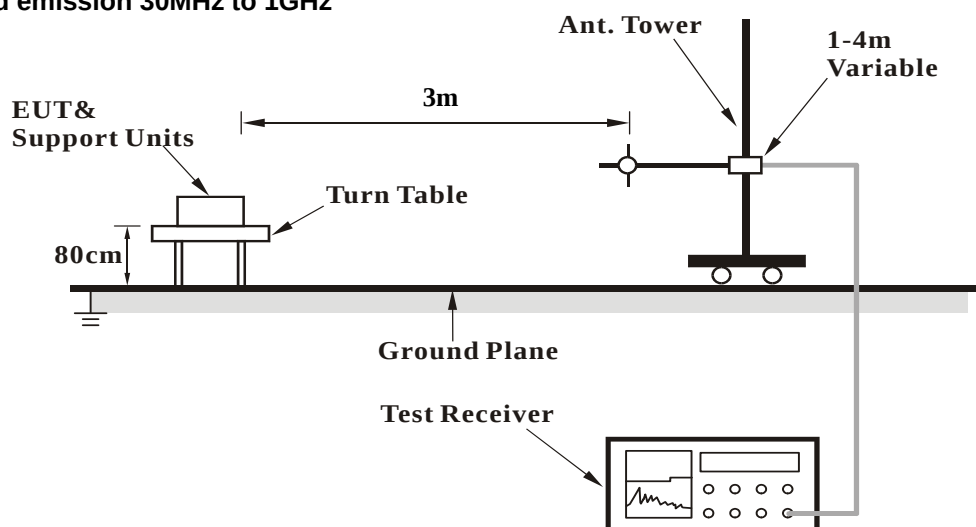
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

### **4.8.3 Deviation from Test Standard**

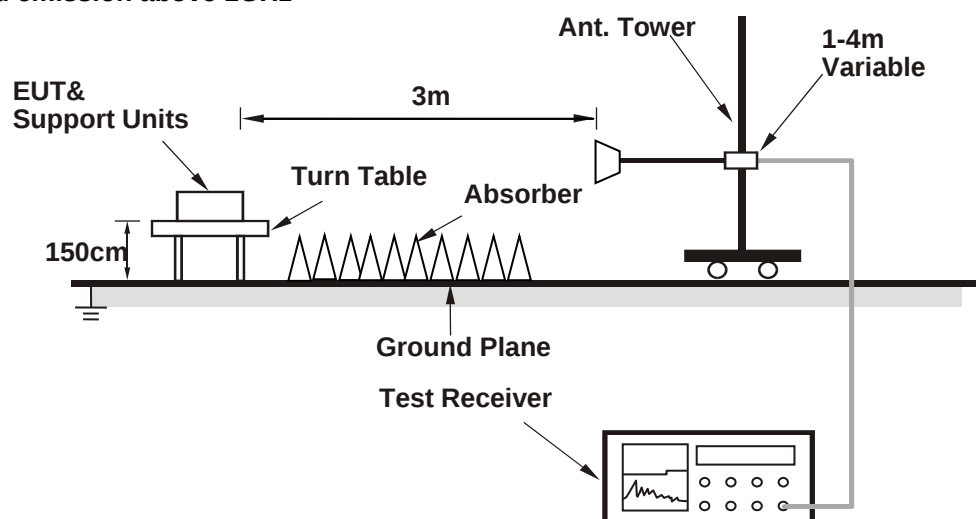
No deviation.

#### 4.8.4 Test Setup

For radiated emission 30MHz to 1GHz



For radiated emission above 1GHz



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

#### 4.8.5 Test Results

Below 1GHz

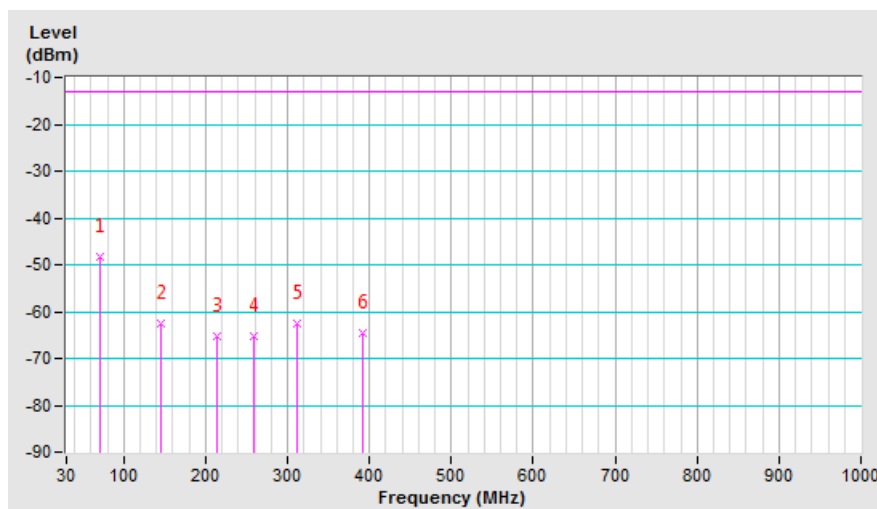
WCDMA Band 2

|                          |                                |                 |                |
|--------------------------|--------------------------------|-----------------|----------------|
| Mode                     | TX channel 9400<br>(1880.0MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 24deg. C, 68%RH                | Input Power     | 120Vac, 60Hz   |
| Tested By                | Greg Lin                       |                 |                |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 70.74       | -42.0         | -47.8                 | -0.4                   | -48.2      | -13.0       | -35.2       |
| 2                                                   | 145.43      | -57.5         | -59.3                 | -3.1                   | -62.4      | -13.0       | -49.4       |
| 3                                                   | 213.33      | -57.0         | -63.4                 | -2.0                   | -65.4      | -13.0       | -52.4       |
| 4                                                   | 257.95      | -60.1         | -63.7                 | -1.6                   | -65.3      | -13.0       | -52.3       |
| 5                                                   | 311.30      | -58.4         | -66.6                 | 4.0                    | -62.6      | -13.0       | -49.6       |
| 6                                                   | 391.81      | -64.1         | -67.9                 | 3.4                    | -64.5      | -13.0       | -51.5       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

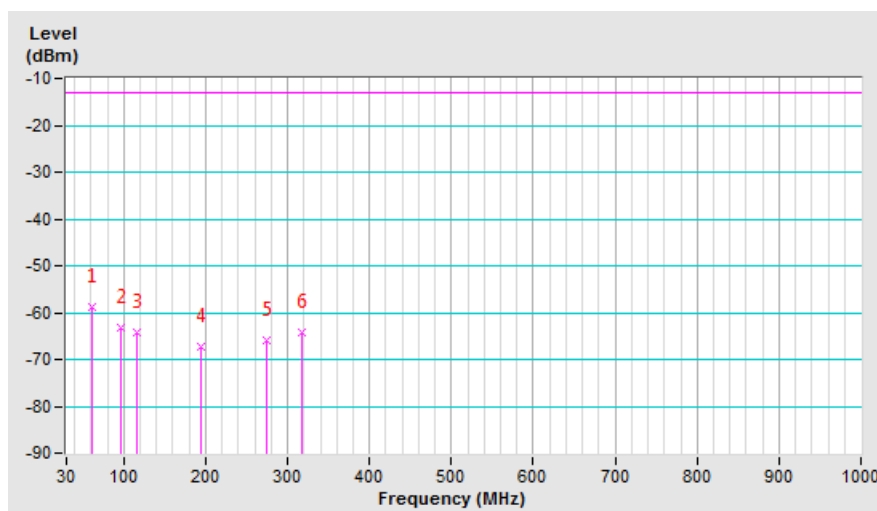


|                          |                                |                 |                |
|--------------------------|--------------------------------|-----------------|----------------|
| Mode                     | TX channel 9400<br>(1880.0MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 24deg. C, 68%RH                | Input Power     | 120Vac, 60Hz   |
| Tested By                | Greg Lin                       |                 |                |

| Antenna Polarity & Test Distance: Vertical at 3 M |             |               |                       |                        |            |             |             |
|---------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                               | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                 | 62.01       | -52.1         | -55.9                 | -3.0                   | -58.9      | -13.0       | -45.9       |
| 2                                                 | 95.96       | -55.1         | -61.9                 | -1.2                   | -63.1      | -13.0       | -50.1       |
| 3                                                 | 116.33      | -57.0         | -61.2                 | -3.0                   | -64.2      | -13.0       | -51.2       |
| 4                                                 | 193.93      | -66.0         | -64.7                 | -2.6                   | -67.3      | -13.0       | -54.3       |
| 5                                                 | 275.41      | -69.1         | -64.4                 | -1.6                   | -66.0      | -13.0       | -53.0       |
| 6                                                 | 317.12      | -64.2         | -68.3                 | 4.1                    | -64.2      | -13.0       | -51.2       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



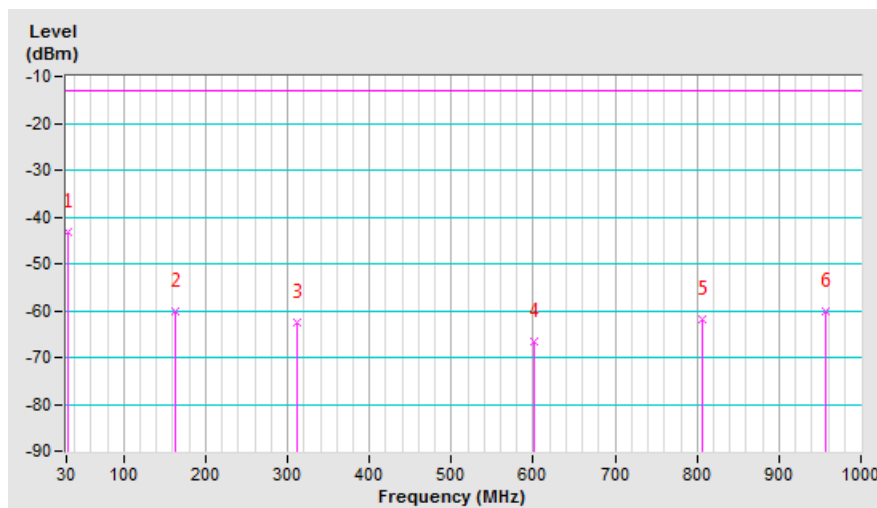
LTE Band 2, Channel Bandwidth: 1.4MHz

|                          |                                  |                 |                |
|--------------------------|----------------------------------|-----------------|----------------|
| Mode                     | TX channel 18607<br>(1850.70MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 24deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz   |
| Tested By                | Greg Lin                         |                 |                |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 31.94       | -46.6         | -24.9                 | -18.3                  | -43.2      | -13.0       | -30.2       |
| 2                                                   | 163.86      | -54.2         | -57.4                 | -2.9                   | -60.3      | -13.0       | -47.3       |
| 3                                                   | 312.27      | -58.5         | -66.6                 | 4.0                    | -62.6      | -13.0       | -49.6       |
| 4                                                   | 601.33      | -68.1         | -70.3                 | 3.8                    | -66.5      | -13.0       | -53.5       |
| 5                                                   | 806.00      | -67.4         | -65.6                 | 3.9                    | -61.7      | -13.0       | -48.7       |
| 6                                                   | 956.35      | -68.5         | -63.9                 | 3.9                    | -60.0      | -13.0       | -47.0       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

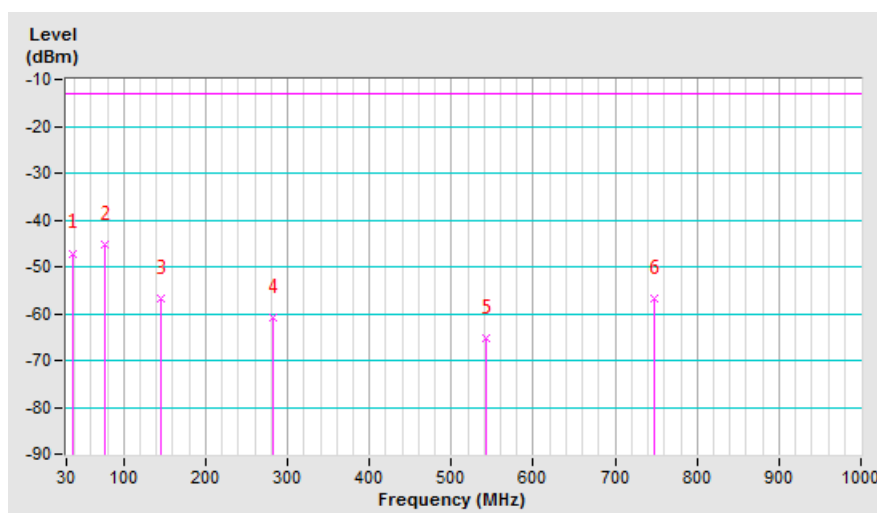


|                          |                                  |                 |                |
|--------------------------|----------------------------------|-----------------|----------------|
| Mode                     | TX channel 18607<br>(1850.70MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 24deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz   |
| Tested By                | Greg Lin                         |                 |                |

| Antenna Polarity & Test Distance: Vertical at 3 M |             |               |                       |                        |            |             |             |
|---------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                               | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                 | 38.73       | -37.6         | -32.9                 | -14.2                  | -47.1      | -13.0       | -34.1       |
| 2                                                 | 77.53       | -39.7         | -45.7                 | 0.5                    | -45.2      | -13.0       | -32.2       |
| 3                                                 | 144.46      | -54.7         | -53.7                 | -3.2                   | -56.9      | -13.0       | -43.9       |
| 4                                                 | 282.20      | -63.8         | -59.3                 | -1.7                   | -61.0      | -13.0       | -48.0       |
| 5                                                 | 542.16      | -66.7         | -69.2                 | 3.9                    | -65.3      | -13.0       | -52.3       |
| 6                                                 | 747.80      | -63.6         | -60.4                 | 3.7                    | -56.7      | -13.0       | -43.7       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



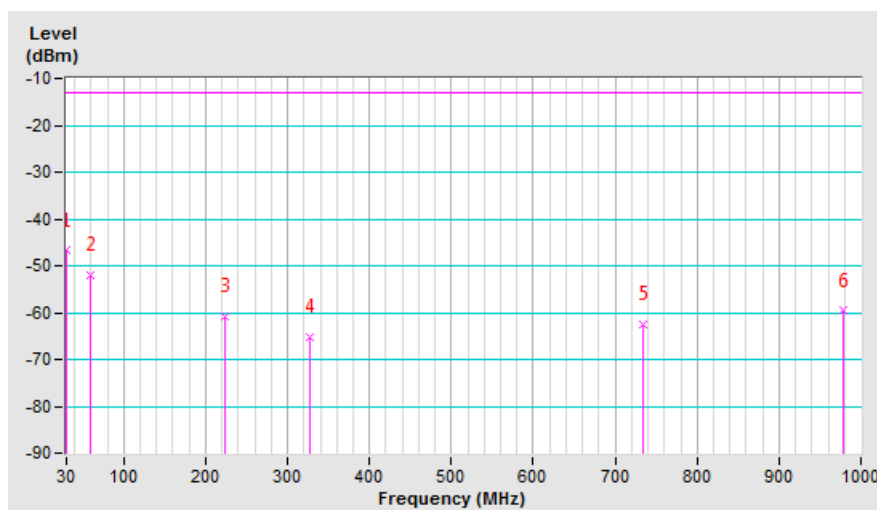
LTE Band 2, Channel Bandwidth: 5MHz

|                          |                                  |                 |                |
|--------------------------|----------------------------------|-----------------|----------------|
| Mode                     | TX channel 18625<br>(1852.50MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 24deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz   |
| Tested By                | Greg Lin                         |                 |                |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 30.97       | -50.5         | -28.0                 | -18.8                  | -46.8      | -13.0       | -33.8       |
| 2                                                   | 60.07       | -47.4         | -48.8                 | -3.4                   | -52.2      | -13.0       | -39.2       |
| 3                                                   | 223.03      | -52.6         | -58.7                 | -2.0                   | -60.7      | -13.0       | -47.7       |
| 4                                                   | 327.79      | -61.5         | -69.5                 | 4.2                    | -65.3      | -13.0       | -52.3       |
| 5                                                   | 734.22      | -66.6         | -66.1                 | 3.7                    | -62.4      | -13.0       | -49.4       |
| 6                                                   | 977.69      | -68.5         | -63.3                 | 3.6                    | -59.7      | -13.0       | -46.7       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

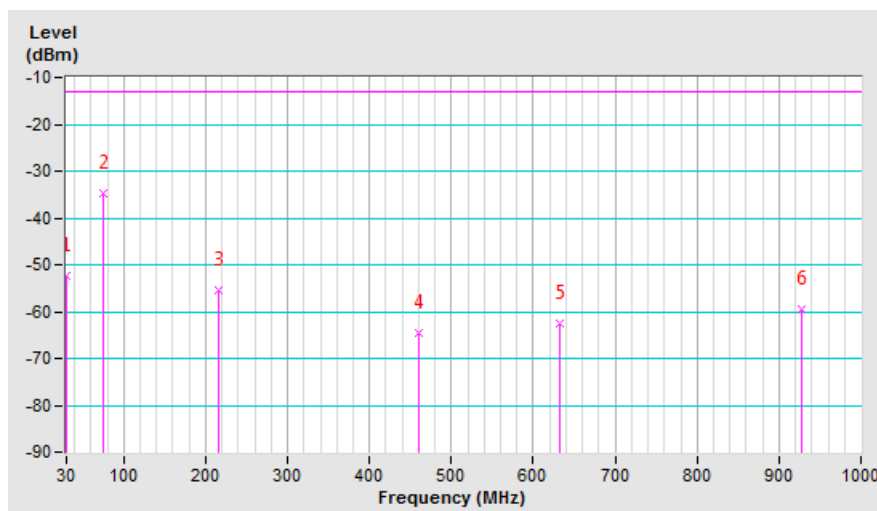


|                          |                                  |                 |                |
|--------------------------|----------------------------------|-----------------|----------------|
| Mode                     | TX channel 18625<br>(1852.50MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 24deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz   |
| Tested By                | Greg Lin                         |                 |                |

| Antenna Polarity & Test Distance: Vertical at 3 M |              |               |                       |                        |              |              |              |
|---------------------------------------------------|--------------|---------------|-----------------------|------------------------|--------------|--------------|--------------|
| No.                                               | Freq. (MHz)  | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm)   | Limit (dBm)  | Margin (dB)  |
| 1                                                 | 30.00        | -42.5         | -33.0                 | -19.4                  | -52.4        | -13.0        | -39.4        |
| 2                                                 | <b>74.62</b> | <b>-29.0</b>  | <b>-34.7</b>          | <b>0.1</b>             | <b>-34.6</b> | <b>-13.0</b> | <b>-21.6</b> |
| 3                                                 | 215.27       | -51.8         | -53.5                 | -2.0                   | -55.5        | -13.0        | -42.5        |
| 4                                                 | 460.68       | -64.6         | -68.0                 | 3.4                    | -64.6        | -13.0        | -51.6        |
| 5                                                 | 631.40       | -67.5         | -66.2                 | 3.6                    | -62.6        | -13.0        | -49.6        |
| 6                                                 | 927.25       | -68.0         | -63.1                 | 3.7                    | -59.4        | -13.0        | -46.4        |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



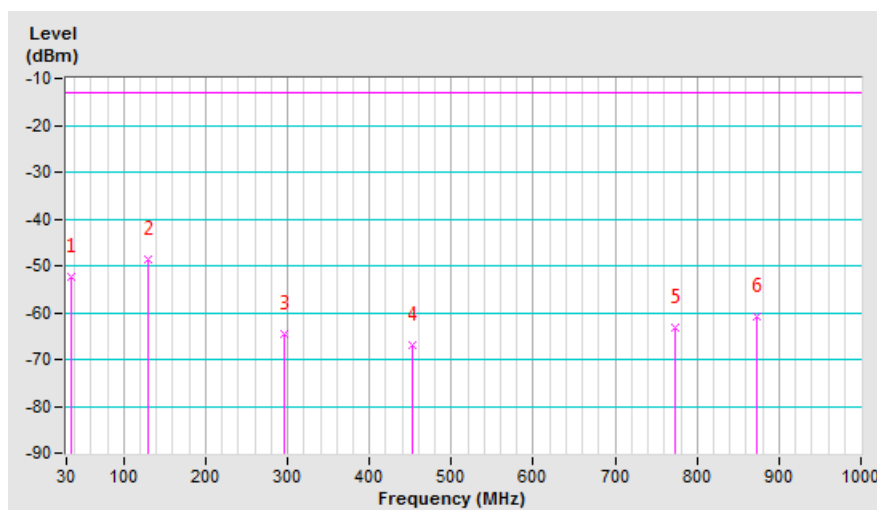
LTE Band 2, Channel Bandwidth: 20MHz

|                          |                                  |                 |                |
|--------------------------|----------------------------------|-----------------|----------------|
| Mode                     | TX channel 18700<br>(1860.00MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 24deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz   |
| Tested By                | Greg Lin                         |                 |                |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 36.79       | -55.8         | -37.2                 | -15.2                  | -52.4      | -13.0       | -39.4       |
| 2                                                   | 129.91      | -42.2         | -45.2                 | -3.3                   | -48.5      | -13.0       | -35.5       |
| 3                                                   | 296.75      | -61.8         | -62.8                 | -1.8                   | -64.6      | -13.0       | -51.6       |
| 4                                                   | 452.92      | -67.1         | -70.6                 | 3.5                    | -67.1      | -13.0       | -54.1       |
| 5                                                   | 773.02      | -68.0         | -67.2                 | 4.0                    | -63.2      | -13.0       | -50.2       |
| 6                                                   | 871.96      | -68.2         | -64.2                 | 3.4                    | -60.8      | -13.0       | -47.8       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

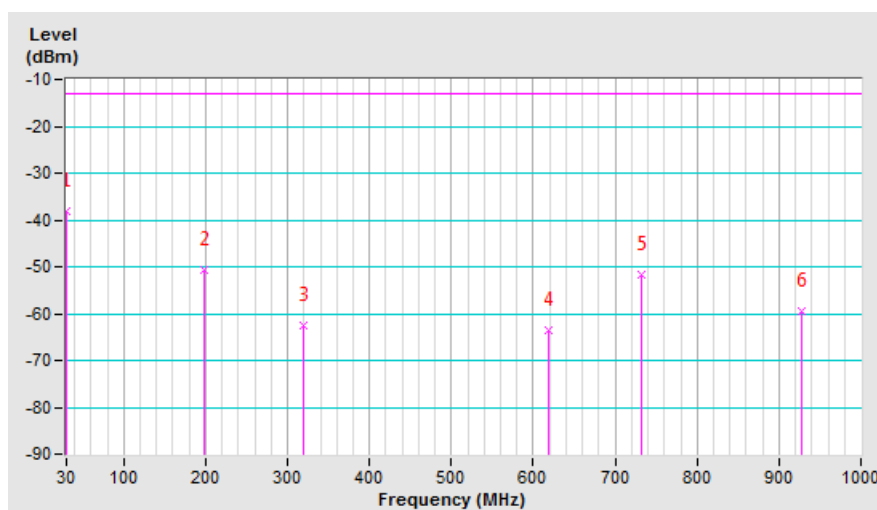


|                          |                                  |                 |                |
|--------------------------|----------------------------------|-----------------|----------------|
| Mode                     | TX channel 18700<br>(1860.00MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 24deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz   |
| Tested By                | Greg Lin                         |                 |                |

| Antenna Polarity & Test Distance: Vertical at 3 M |             |               |                       |                        |            |             |             |
|---------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                               | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                 | 30.97       | -28.0         | -19.4                 | -18.8                  | -38.2      | -13.0       | -25.2       |
| 2                                                 | 198.78      | -49.7         | -48.3                 | -2.4                   | -50.7      | -13.0       | -37.7       |
| 3                                                 | 319.06      | -62.3         | -66.4                 | 4.0                    | -62.4      | -13.0       | -49.4       |
| 4                                                 | 617.82      | -68.5         | -67.4                 | 3.7                    | -63.7      | -13.0       | -50.7       |
| 5                                                 | 731.31      | -58.2         | -55.2                 | 3.6                    | -51.6      | -13.0       | -38.6       |
| 6                                                 | 927.25      | -68.0         | -63.1                 | 3.7                    | -59.4      | -13.0       | -46.4       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



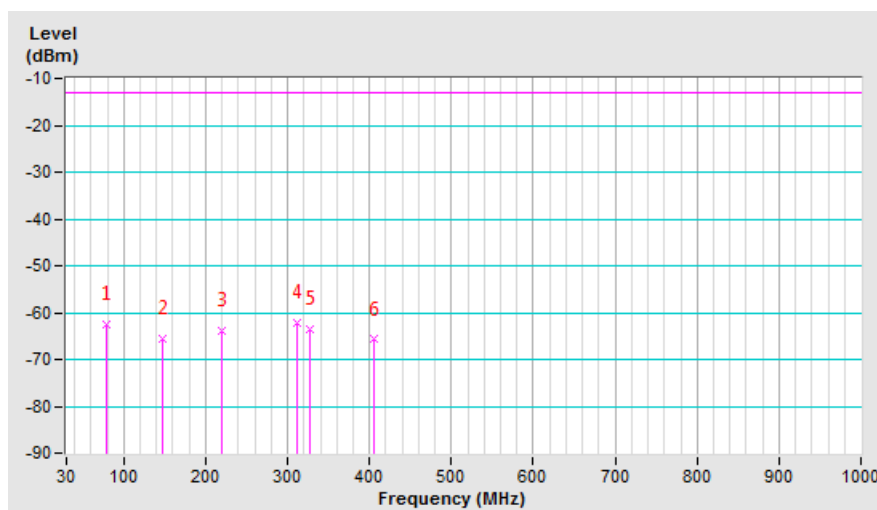
LTE Band 25, Channel Bandwidth: 1.4MHz

|                          |                              |                 |                |
|--------------------------|------------------------------|-----------------|----------------|
| Mode                     | TX channel 26047 (1850.7MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 24deg. C, 68%RH              | Input Power     | 120Vac, 60Hz   |
| Tested By                | Greg Lin                     |                 |                |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 78.50       | -57.3         | -63.0                 | 0.6                    | -62.4      | -13.0       | -49.4       |
| 2                                                   | 146.40      | -60.9         | -62.7                 | -3.0                   | -65.7      | -13.0       | -52.7       |
| 3                                                   | 220.12      | -55.7         | -61.9                 | -1.9                   | -63.8      | -13.0       | -50.8       |
| 4                                                   | 312.27      | -58.1         | -66.2                 | 4.0                    | -62.2      | -13.0       | -49.2       |
| 5                                                   | 326.82      | -59.8         | -67.8                 | 4.1                    | -63.7      | -13.0       | -50.7       |
| 6                                                   | 406.36      | -65.3         | -69.1                 | 3.3                    | -65.8      | -13.0       | -52.8       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

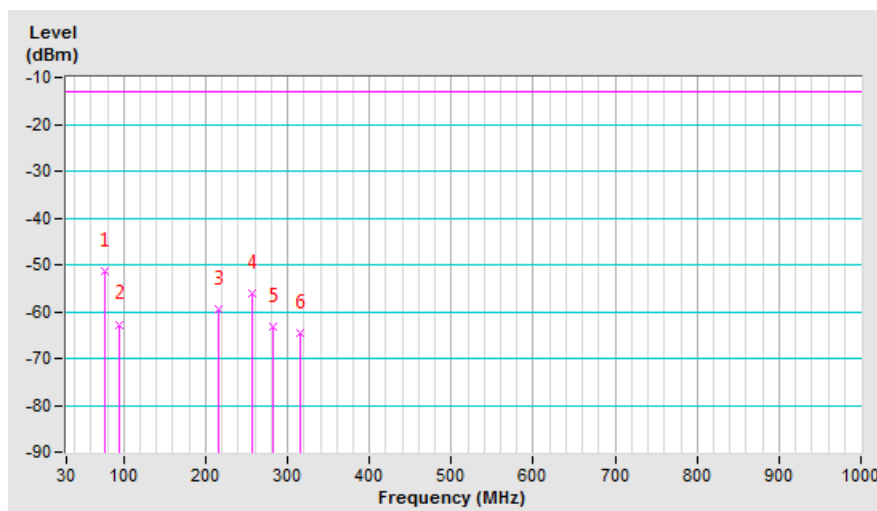


|                          |                                 |                 |                |
|--------------------------|---------------------------------|-----------------|----------------|
| Mode                     | TX channel 26047<br>(1850.7MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 24deg. C, 68%RH                 | Input Power     | 120Vac, 60Hz   |
| Tested By                | Greg Lin                        |                 |                |

| Antenna Polarity & Test Distance: Vertical at 3 M |             |               |                       |                        |            |             |             |
|---------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                               | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                 | 76.56       | -45.8         | -51.8                 | 0.3                    | -51.5      | -13.0       | -38.5       |
| 2                                                 | 94.99       | -55.0         | -61.8                 | -0.9                   | -62.7      | -13.0       | -49.7       |
| 3                                                 | 215.27      | -55.9         | -57.6                 | -2.0                   | -59.6      | -13.0       | -46.6       |
| 4                                                 | 256.98      | -56.5         | -54.5                 | -1.5                   | -56.0      | -13.0       | -43.0       |
| 5                                                 | 282.20      | -66.1         | -61.6                 | -1.7                   | -63.3      | -13.0       | -50.3       |
| 6                                                 | 315.18      | -64.4         | -68.5                 | 4.0                    | -64.5      | -13.0       | -51.5       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



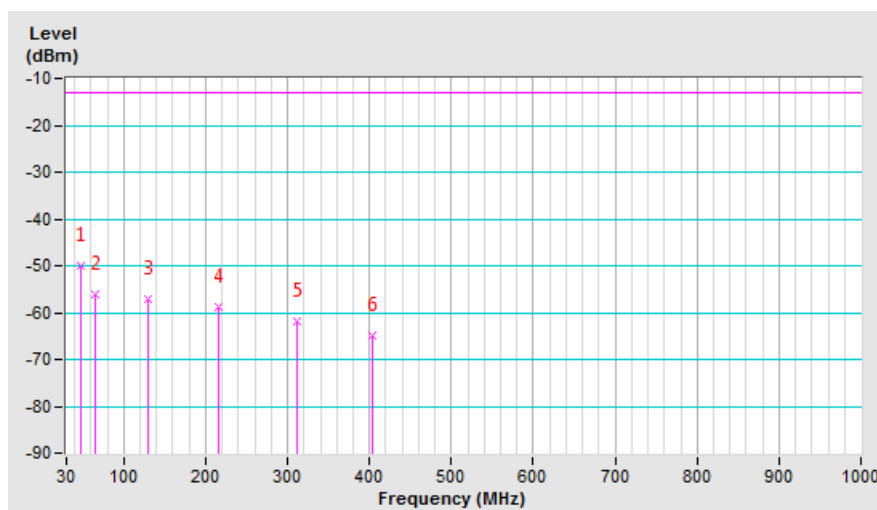
LTE Band 25, Channel Bandwidth: 5MHz

|                          |                              |                 |                |
|--------------------------|------------------------------|-----------------|----------------|
| Mode                     | TX channel 26065 (1852.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 24deg. C, 68%RH              | Input Power     | 120Vac, 60Hz   |
| Tested By                | Greg Lin                     |                 |                |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 47.46       | -50.2         | -40.8                 | -9.2                   | -50.0      | -13.0       | -37.0       |
| 2                                                   | 64.92       | -49.5         | -54.2                 | -1.9                   | -56.1      | -13.0       | -43.1       |
| 3                                                   | 128.94      | -51.0         | -54.0                 | -3.2                   | -57.2      | -13.0       | -44.2       |
| 4                                                   | 215.27      | -50.5         | -56.8                 | -2.0                   | -58.8      | -13.0       | -45.8       |
| 5                                                   | 311.30      | -57.7         | -65.9                 | 4.0                    | -61.9      | -13.0       | -48.9       |
| 6                                                   | 404.42      | -64.3         | -68.2                 | 3.3                    | -64.9      | -13.0       | -51.9       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

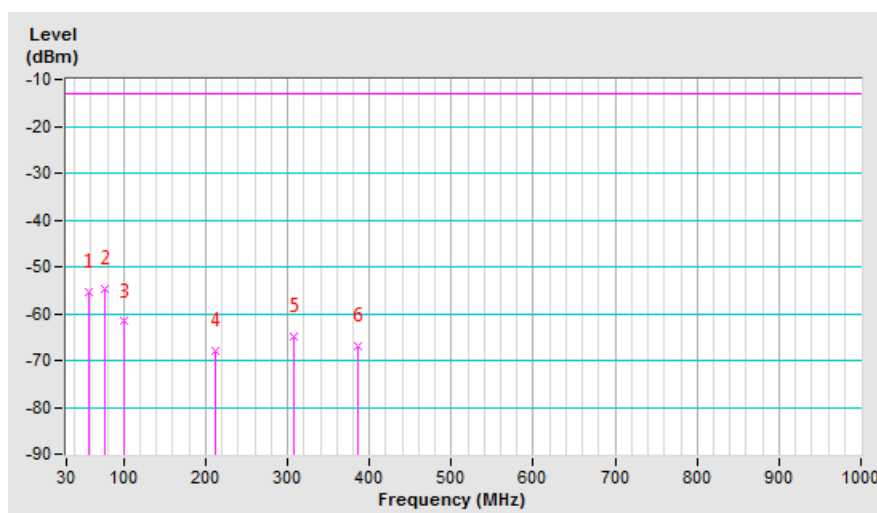


|                          |                                 |                 |                |
|--------------------------|---------------------------------|-----------------|----------------|
| Mode                     | TX channel 26065<br>(1852.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 24deg. C, 68%RH                 | Input Power     | 120Vac, 60Hz   |
| Tested By                | Greg Lin                        |                 |                |

| Antenna Polarity & Test Distance: Vertical at 3 M |             |               |                       |                        |            |             |             |
|---------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                               | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                 | 58.13       | -48.6         | -51.3                 | -4.2                   | -55.5      | -13.0       | -42.5       |
| 2                                                 | 76.56       | -49.0         | -55.0                 | 0.3                    | -54.7      | -13.0       | -41.7       |
| 3                                                 | 100.81      | -53.4         | -60.1                 | -1.6                   | -61.7      | -13.0       | -48.7       |
| 4                                                 | 212.36      | -64.5         | -65.9                 | -2.1                   | -68.0      | -13.0       | -55.0       |
| 5                                                 | 307.42      | -64.9         | -68.7                 | 3.9                    | -64.8      | -13.0       | -51.8       |
| 6                                                 | 385.02      | -66.7         | -70.6                 | 3.5                    | -67.1      | -13.0       | -54.1       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



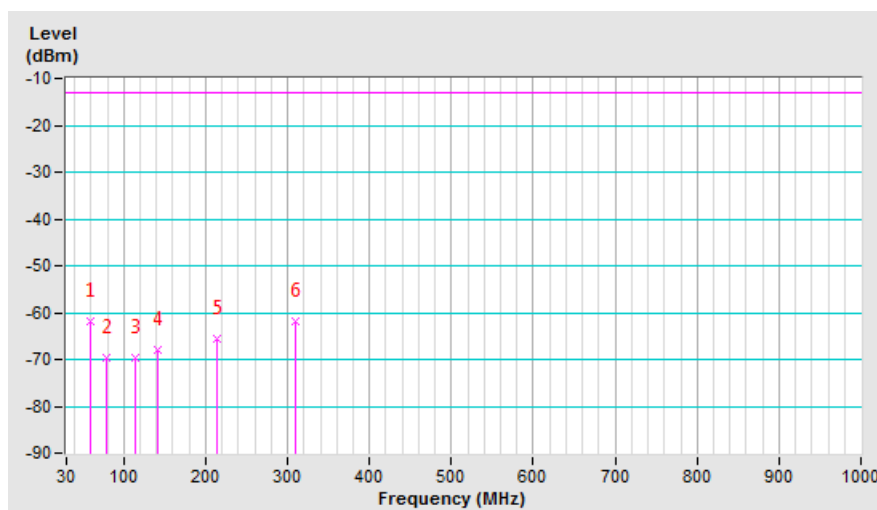
LTE Band 25, Channel Bandwidth: 20MHz

|                          |                                 |                 |                |
|--------------------------|---------------------------------|-----------------|----------------|
| Mode                     | TX channel 26140<br>(1860.0MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 24deg. C, 68%RH                 | Input Power     | 120Vac, 60Hz   |
| Tested By                | Greg Lin                        |                 |                |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 60.07       | -57.0         | -58.4                 | -3.4                   | -61.8      | -13.0       | -48.8       |
| 2                                                   | 79.47       | -64.9         | -70.4                 | 0.6                    | -69.8      | -13.0       | -56.8       |
| 3                                                   | 114.39      | -61.9         | -67.0                 | -2.8                   | -69.8      | -13.0       | -56.8       |
| 4                                                   | 141.55      | -62.7         | -65.1                 | -3.0                   | -68.1      | -13.0       | -55.1       |
| 5                                                   | 213.33      | -57.3         | -63.7                 | -2.0                   | -65.7      | -13.0       | -52.7       |
| 6                                                   | 310.33      | -57.7         | -65.8                 | 3.9                    | -61.9      | -13.0       | -48.9       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

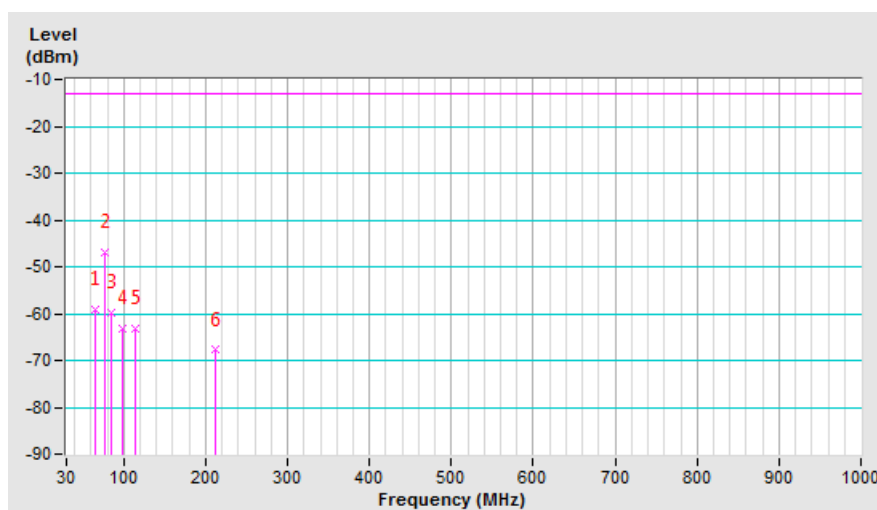


|                          |                                 |                 |                |
|--------------------------|---------------------------------|-----------------|----------------|
| Mode                     | TX channel 26140<br>(1860.0MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 24deg. C, 68%RH                 | Input Power     | 120Vac, 60Hz   |
| Tested By                | Greg Lin                        |                 |                |

| Antenna Polarity & Test Distance: Vertical at 3 M |             |               |                       |                        |            |             |             |
|---------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                               | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                 | 65.89       | -51.6         | -57.1                 | -1.9                   | -59.0      | -13.0       | -46.0       |
| 2                                                 | 76.56       | -41.3         | -47.3                 | 0.3                    | -47.0      | -13.0       | -34.0       |
| 3                                                 | 84.32       | -54.9         | -60.3                 | 0.4                    | -59.9      | -13.0       | -46.9       |
| 4                                                 | 97.90       | -55.0         | -61.7                 | -1.4                   | -63.1      | -13.0       | -50.1       |
| 5                                                 | 114.39      | -56.0         | -60.5                 | -2.8                   | -63.3      | -13.0       | -50.3       |
| 6                                                 | 212.36      | -64.3         | -65.7                 | -2.1                   | -67.8      | -13.0       | -54.8       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).



Above 1GHz  
WCDMA Band 2

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

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3704.80     | -52.0         | -43.5                 | 1.4                    | -42.1      | -13.0       | -29.1       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3704.80     | -56.7         | -48.5                 | 1.4                    | -47.1      | -13.0       | -34.1       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

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

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760.00     | -53.1         | -44.6                 | 1.3                    | -43.3      | -13.0       | -30.3       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760.00     | -56.0         | -47.7                 | 1.3                    | -46.4      | -13.0       | -33.4       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

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

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3815.20     | -53.1         | -44.8                 | 1.4                    | -43.4      | -13.0       | -30.4       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3815.20     | -55.9         | -47.7                 | 1.4                    | -46.3      | -13.0       | -33.3       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE Band 2, Channel Bandwidth 1.4MHz

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 18607<br>(1850.70MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                         |                 |              |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3701.40     | -64.9         | -56.4                 | 1.4                    | -55.0      | -13.0       | -42.0       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3701.40     | -67.1         | -58.9                 | 1.4                    | -57.5      | -13.0       | -44.5       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 18900<br>(1880.00MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                         |                 |              |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760.00     | -65.0         | -56.5                 | 1.3                    | -55.2      | -13.0       | -42.2       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760.00     | -67.2         | -58.9                 | 1.3                    | -57.6      | -13.0       | -44.6       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 19193<br>(1909.30MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                         |                 |              |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3818.60     | -64.8         | -56.5                 | 1.4                    | -55.1      | -13.0       | -42.1       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3818.60     | -66.8         | -58.6                 | 1.4                    | -57.2      | -13.0       | -44.2       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE Band 2, Channel Bandwidth 5MHz

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 18625<br>(1852.50MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                         |                 |              |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3705.00     | -64.3         | -55.8                 | 1.4                    | -54.4      | -13.0       | -41.4       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3705.00     | -67.0         | -58.8                 | 1.4                    | -57.4      | -13.0       | -44.4       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 18900<br>(1880.00MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                         |                 |              |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760.00     | -64.4         | -55.9                 | 1.3                    | -54.6      | -13.0       | -41.6       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760.00     | -67.2         | -58.9                 | 1.3                    | -57.6      | -13.0       | -44.6       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 19175<br>(1907.50MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                         |                 |              |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3815.00     | -64.3         | -56.0                 | 1.4                    | -54.6      | -13.0       | -41.6       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3815.00     | -67.1         | -58.9                 | 1.4                    | -57.5      | -13.0       | -44.5       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE Band 2, Channel Bandwidth 20MHz

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 18700<br>(1860.00MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                         |                 |              |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3720.00     | -64.6         | -56.1                 | 1.4                    | -54.7      | -13.0       | -41.7       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3720.00     | -66.5         | -58.3                 | 1.4                    | -56.9      | -13.0       | -43.9       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 18900<br>(1880.00MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                         |                 |              |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760.00     | -64.3         | -55.8                 | 1.3                    | -54.5      | -13.0       | -41.5       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3760.00     | -67.3         | -59.0                 | 1.3                    | -57.7      | -13.0       | -44.7       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 19100<br>(1900.00MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 24deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Greg Lin                         |                 |              |

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3800.00     | -64.3         | -55.9                 | 1.3                    | -54.6      | -13.0       | -41.6       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3800.00     | -66.9         | -58.7                 | 1.3                    | -57.4      | -13.0       | -44.4       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE Band 25, Channel Bandwidth 1.4MHz

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

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3701.40     | -65.6         | -57.1                 | 1.4                    | -55.7      | -13.0       | -42.7       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3701.40     | -69.1         | -60.9                 | 1.4                    | -59.5      | -13.0       | -46.5       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

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

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3765.00     | -65.2         | -56.7                 | 1.3                    | -55.4      | -13.0       | -42.4       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3765.00     | -68.8         | -60.5                 | 1.3                    | -59.2      | -13.0       | -46.2       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

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

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3828.60     | -65.0         | -56.7                 | 1.4                    | -55.3      | -13.0       | -42.3       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3828.60     | -65.0         | -56.7                 | 1.4                    | -55.3      | -13.0       | -42.3       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE Band 25, Channel Bandwidth 5MHz

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

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3705.00     | -65.2         | -56.7                 | 1.4                    | -55.3      | -13.0       | -42.3       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3705.00     | -68.6         | -60.4                 | 1.4                    | -59.0      | -13.0       | -46.0       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

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

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3765.00     | -65.0         | -56.5                 | 1.3                    | -55.2      | -13.0       | -42.2       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3765.00     | -68.5         | -60.2                 | 1.3                    | -58.9      | -13.0       | -45.9       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

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

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3825.00     | -65.7         | -57.4                 | 1.4                    | -56.0      | -13.0       | -43.0       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3825.00     | -68.1         | -59.9                 | 1.4                    | -58.5      | -13.0       | -45.5       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE Band 25, Channel Bandwidth 20MHz

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

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3720.00     | -65.5         | -57.0                 | 1.4                    | -55.6      | -13.0       | -42.6       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3720.00     | -68.6         | -60.4                 | 1.4                    | -59.0      | -13.0       | -46.0       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

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

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3765.00     | -65.3         | -56.8                 | 1.3                    | -55.5      | -13.0       | -42.5       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3765.00     | -68.4         | -60.1                 | 1.3                    | -58.8      | -13.0       | -45.8       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

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

| Antenna Polarity & Test Distance: Horizontal at 3 M |             |               |                       |                        |            |             |             |
|-----------------------------------------------------|-------------|---------------|-----------------------|------------------------|------------|-------------|-------------|
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3810.00     | -65.5         | -57.1                 | 1.3                    | -55.8      | -13.0       | -42.8       |
| Antenna Polarity & Test Distance: Vertical at 3 M   |             |               |                       |                        |            |             |             |
| No.                                                 | Freq. (MHz) | Reading (dBm) | S.G Power Value (dBm) | Correction Factor (dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) |
| 1                                                   | 3810.00     | -68.4         | -60.1                 | 1.3                    | -58.8      | -13.0       | -45.8       |

Remarks:

1. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

## 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.

If you have any comments, please feel free to contact us at the following:

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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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