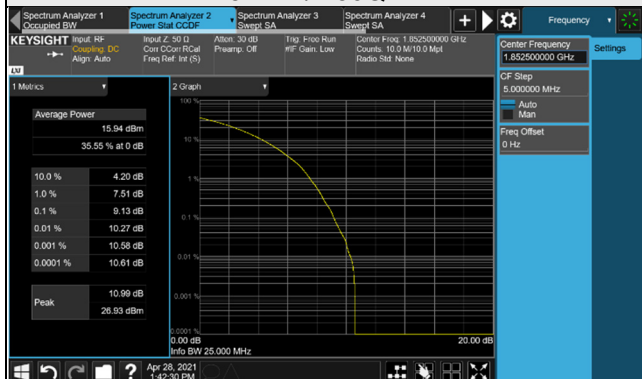
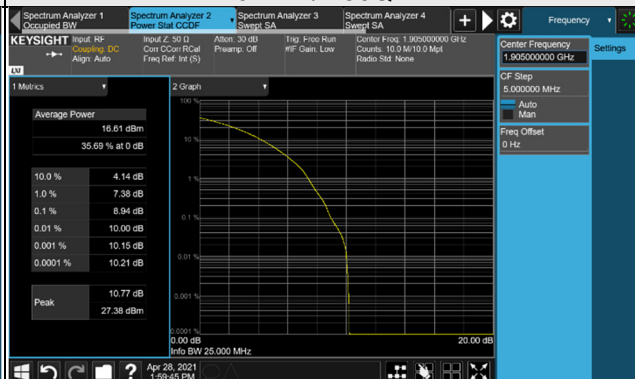


## Spectrum Plot of Worst Value

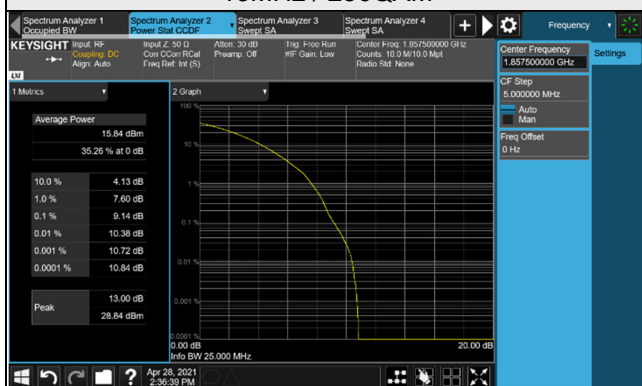
### 5MHz / 256QAM



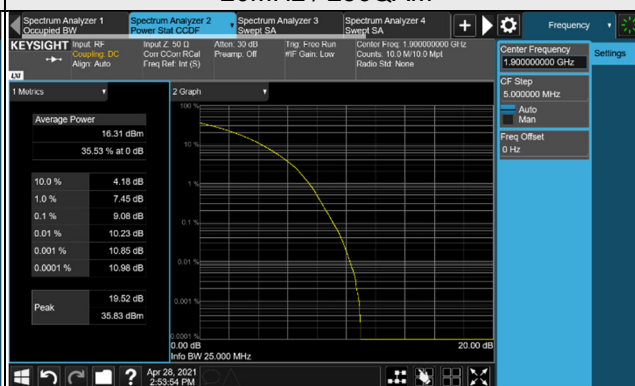
### 10MHz / 256QAM



### 15MHz / 256QAM



### 20MHz / 256QAM

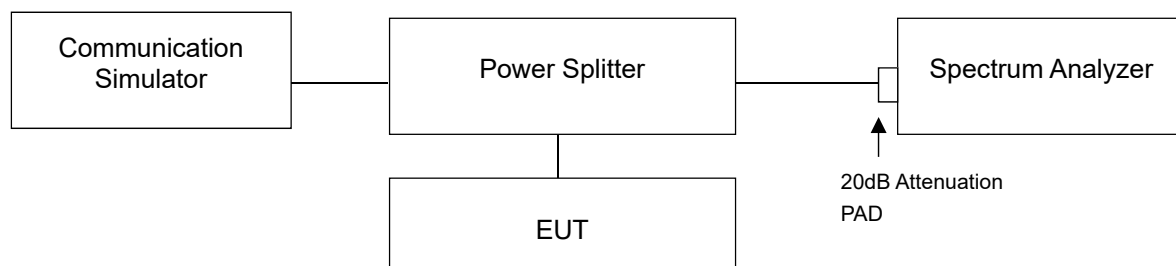


## 4.7 Conducted Spurious Emissions

### 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



### 4.7.3 Test Procedure

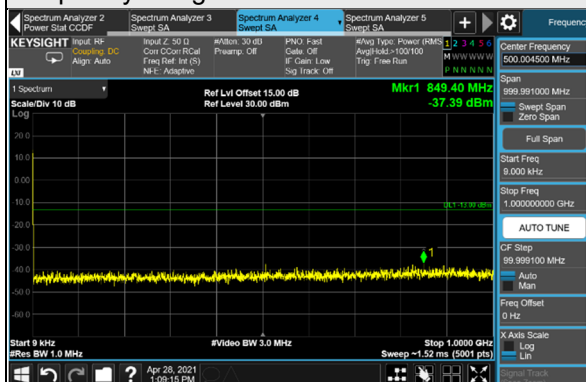
- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9kHz to 26GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

#### 4.7.4 Test Results

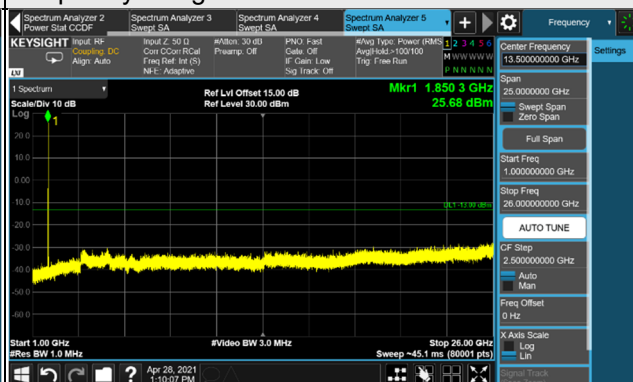
n2, Channel Bandwidth 5MHz

Channel 370500 (1852.5MHz)

Frequency Range : 9kHz ~ 1GHz

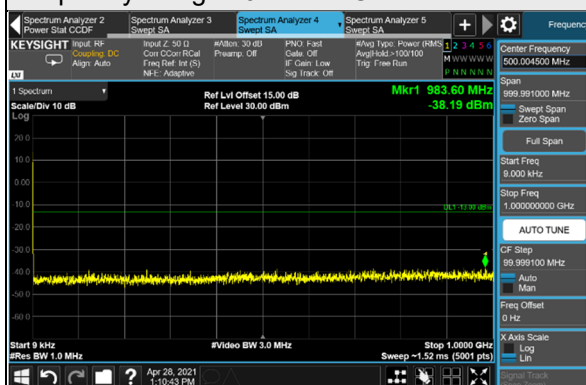


Frequency Range : 1GHz ~ 26GHz

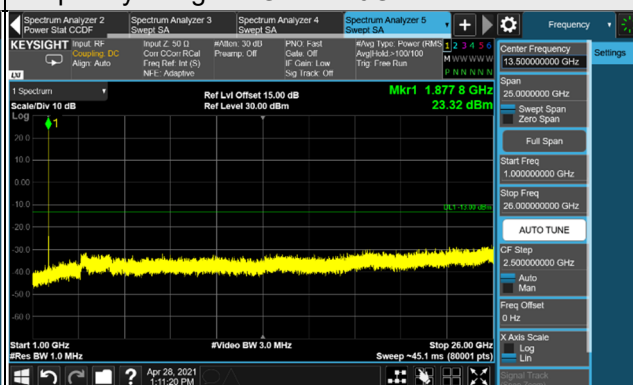


Channel 376000 (1880.0MHz)

Frequency Range : 9kHz ~ 1GHz

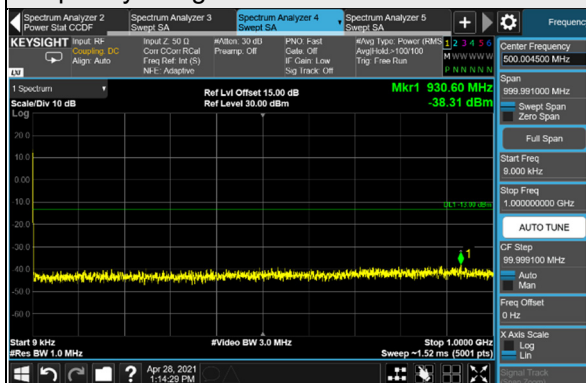


Frequency Range : 1GHz ~ 26GHz

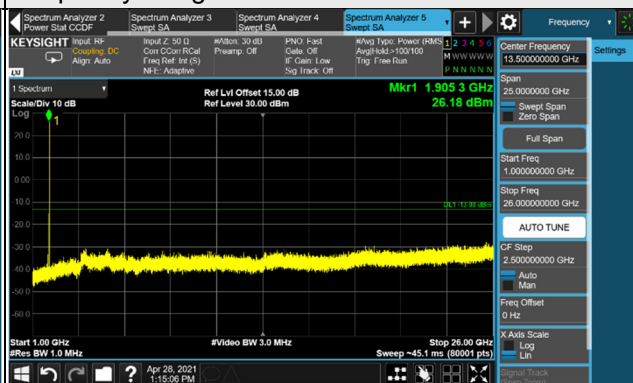


Channel 381500 (1907.5MHz)

Frequency Range : 9kHz ~ 1GHz



Frequency Range : 1GHz ~ 26GHz

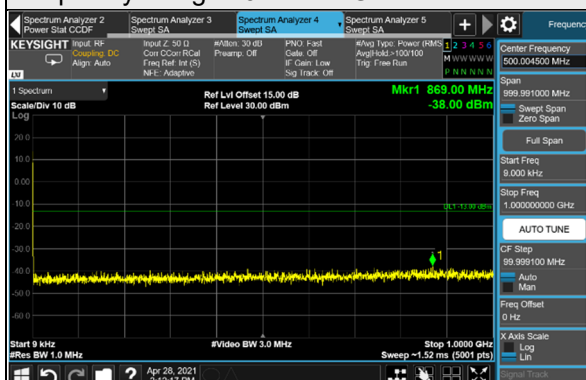


\*The 9kHz signal over the limit is from Spectrum.

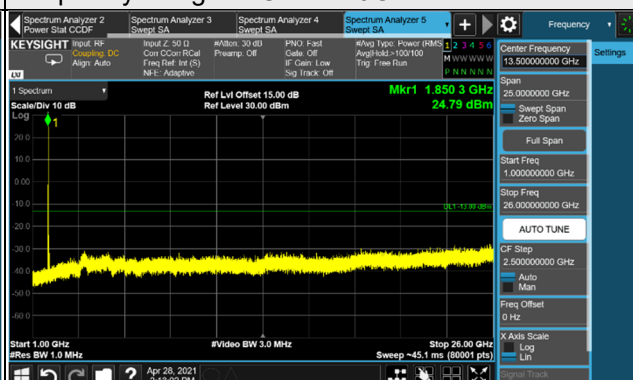
n2, Channel Bandwidth 10MHz

Channel 371000 (1855.0MHz)

Frequency Range : 9kHz ~ 1GHz

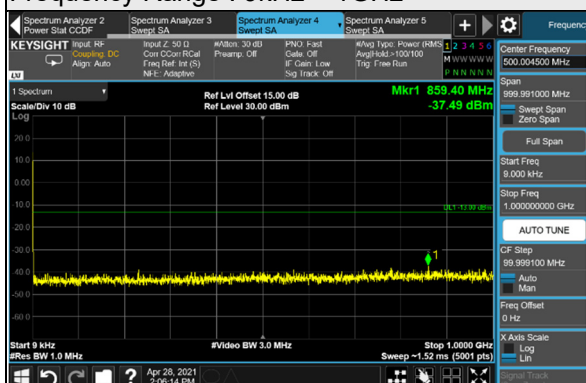


Frequency Range : 1GHz ~ 26GHz

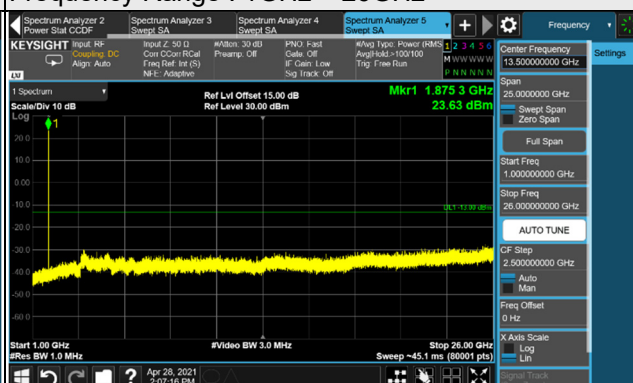


Channel 376000 (1880.0MHz)

Frequency Range : 9kHz ~ 1GHz

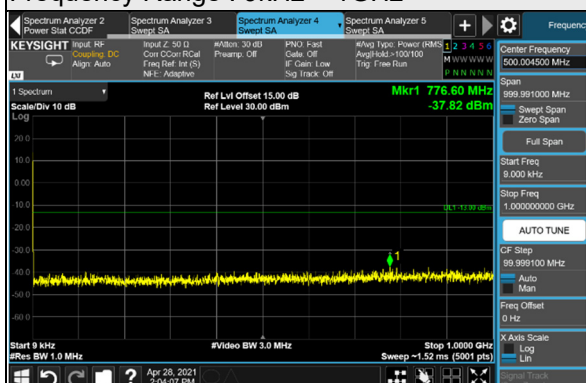


Frequency Range : 1GHz ~ 26GHz

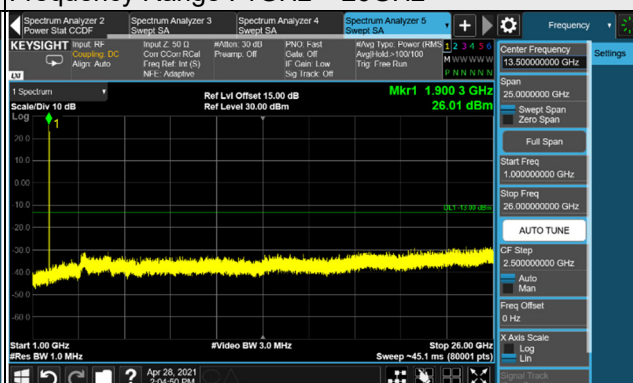


Channel 381000 (1905.0MHz)

Frequency Range : 9kHz ~ 1GHz



Frequency Range : 1GHz ~ 26GHz

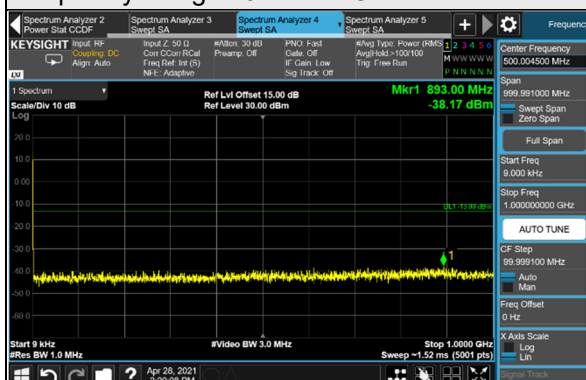


\*The 9kHz signal over the limit is from Spectrum.

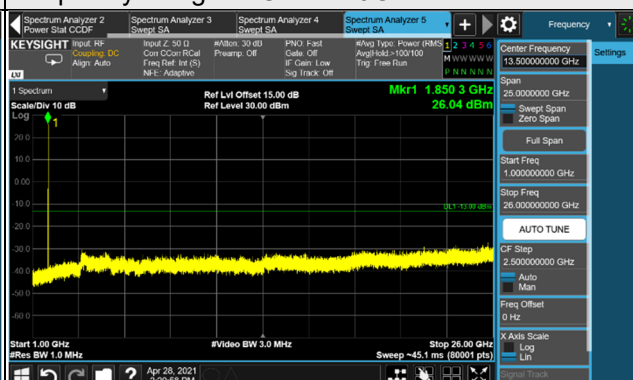
n2, Channel Bandwidth 15MHz

Channel 371500 (1857.5MHz)

Frequency Range : 9kHz ~ 1GHz

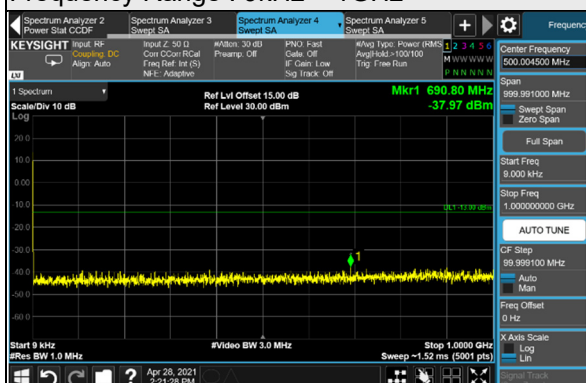


Frequency Range : 1GHz ~ 26GHz

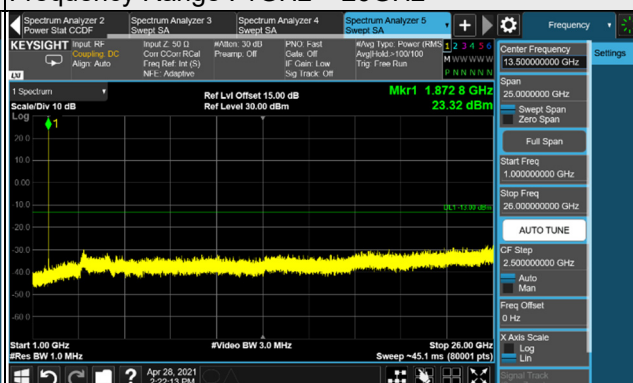


Channel 376000 (1880.0MHz)

Frequency Range : 9kHz ~ 1GHz

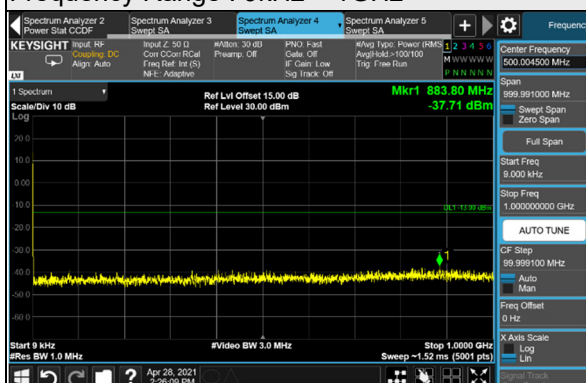


Frequency Range : 1GHz ~ 26GHz

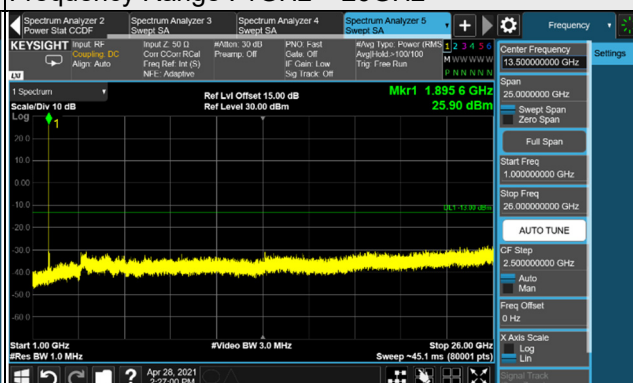


Channel 380500 (1902.5MHz)

Frequency Range : 9kHz ~ 1GHz



Frequency Range : 1GHz ~ 26GHz

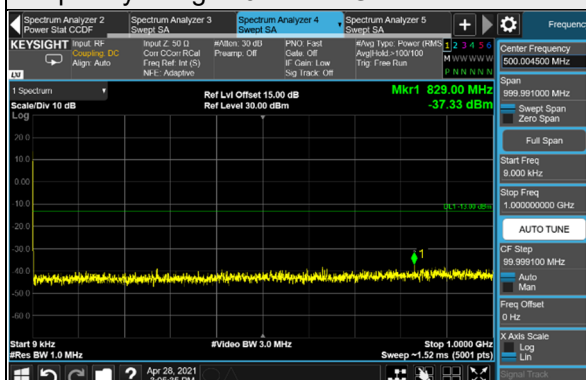


\*The 9KHz signal over the limit is from Spectrum.

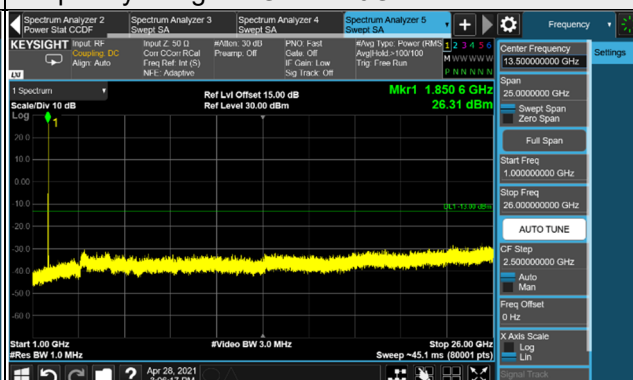
n2, Channel Bandwidth 20MHz

Channel 372000 (1860.0MHz)

Frequency Range : 9kHz ~ 1GHz

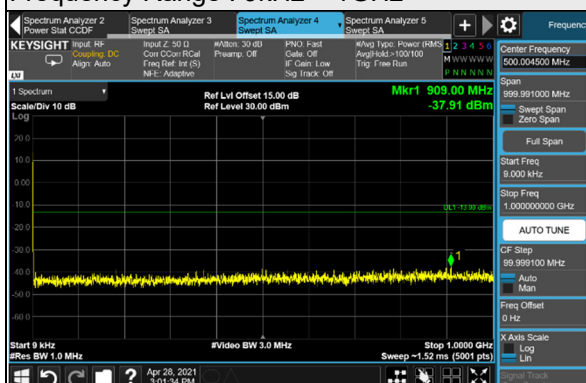


Frequency Range : 1GHz ~ 26GHz

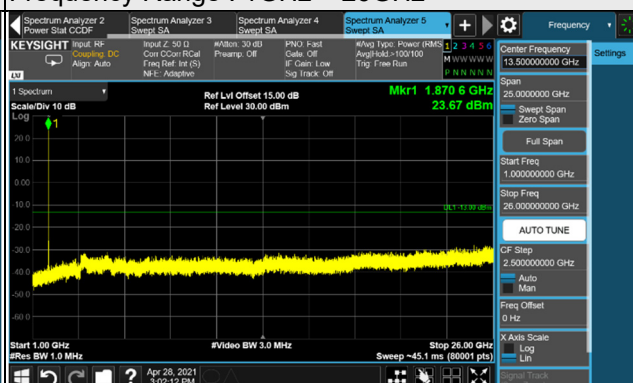


Channel 376000 (1880.0MHz)

Frequency Range : 9kHz ~ 1GHz

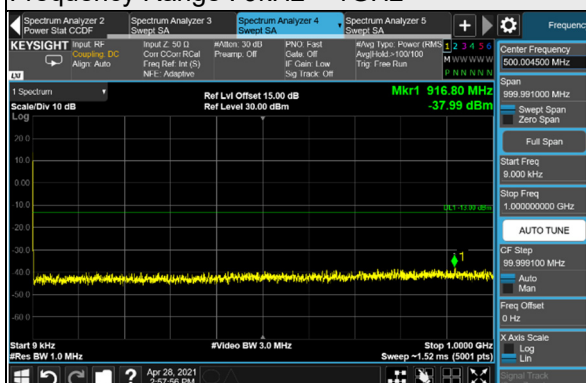


Frequency Range : 1GHz ~ 26GHz

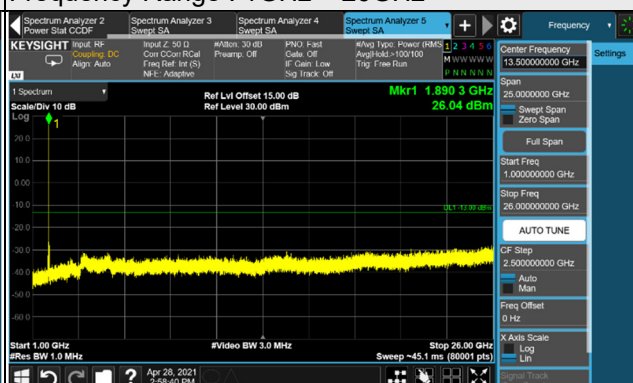


Channel 380000 (1900.0MHz)

Frequency Range : 9kHz ~ 1GHz



Frequency Range : 1GHz ~ 26GHz



\*The 9kHz signal over the limit is from Spectrum.

## 4.8 Radiated Emission Measurement

### 4.8.1 Limits of Radiated Emission Measurement

For n2, LTE Band 5:

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  $-13\text{dBm}$ .

For LTE Band 12:

According to FCC 27.53(g) for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log(P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

For LTE Band 66:

According to FCC 27.53(h) for operations in the 1695-1710MHz, 1710-1755MHz, 1755-1780 MHz, 1915-1920MHz, 1995-2000 MHz, 2000-2020MHz, 2110-2155MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log(P)$  dB.

### 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(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.
- b. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- d. Following C63.26 section 5.5 and 5.2.7
  - $\text{EIRP (dBm)} = E (\text{dB}\mu\text{V/m}) + 20\log(D) - 104.8$ ; where D is the measurement distance (in the far field region) in m.
  - $\text{ERP (dBm)} = E (\text{dB}\mu\text{V/m}) + 20\log(D) - 104.8 - 2.15$ ; where D is the measurement distance (in the far field region) in m.

Note:

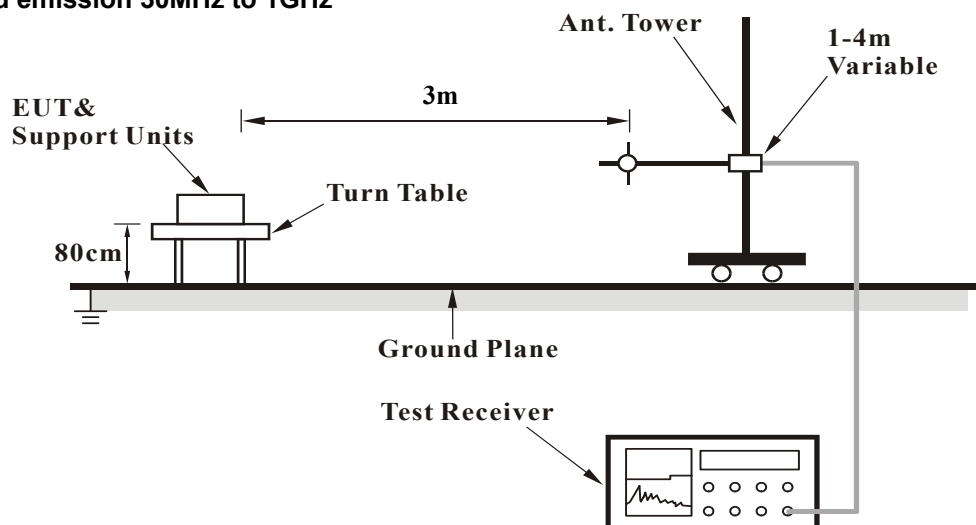
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:  
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

### 4.8.3 Deviation from Test Standard

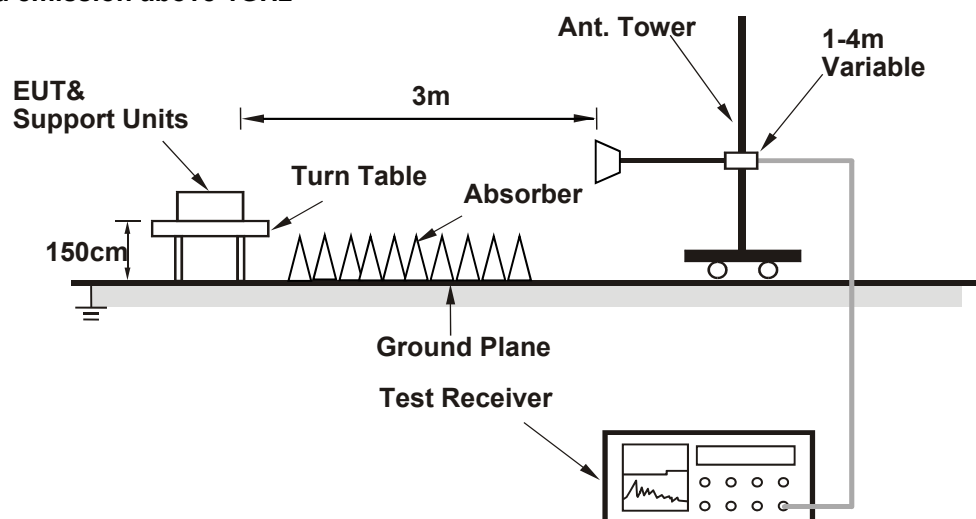
No deviation.

#### 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

##### Internal Antenna

Below 1GHz

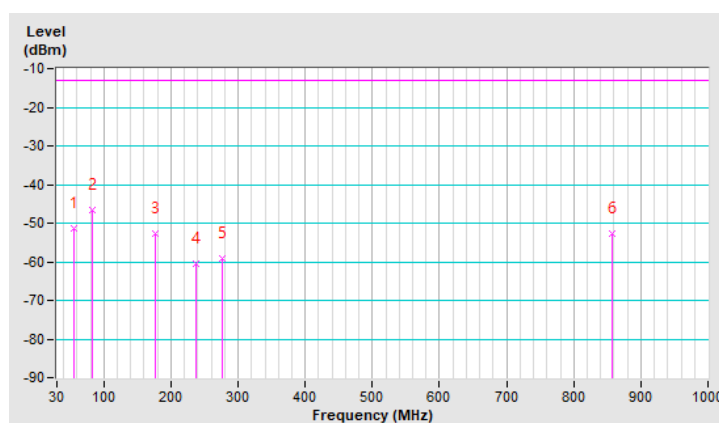
n2, Channel Bandwidth 5MHz

|                          |                                  |                 |                |
|--------------------------|----------------------------------|-----------------|----------------|
| Mode                     | TX channel 381500<br>(1907.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 25deg. C, 70%RH                  | Input Power     | 120Vac, 60Hz   |
| Tested By                | Hans Wu                          |                 |                |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |               |               |               |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|---------------|---------------|---------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm)    | Limit (dBm)   | Margin (dB)   | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 55.30           | -51.40        | -13.00        | -38.40        | 1.50 H             | 197                  | 52.90            | -104.30                  |
| <b>2</b>                                             | <b>83.42</b>    | <b>-46.70</b> | <b>-13.00</b> | <b>-33.70</b> | <b>2.00 H</b>      | <b>143</b>           | <b>62.60</b>     | <b>-109.30</b>           |
| 3                                                    | 176.20          | -52.60        | -13.00        | -39.60        | 1.50 H             | 227                  | 52.50            | -105.10                  |
| 4                                                    | 238.06          | -60.60        | -13.00        | -47.60        | 1.00 H             | 163                  | 45.00            | -105.60                  |
| 5                                                    | 276.01          | -59.20        | -13.00        | -46.20        | 2.00 H             | 183                  | 44.40            | -103.60                  |
| 6                                                    | 856.61          | -52.60        | -13.00        | -39.60        | 1.50 H             | 97                   | 37.60            | -90.20                   |

Remarks:

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

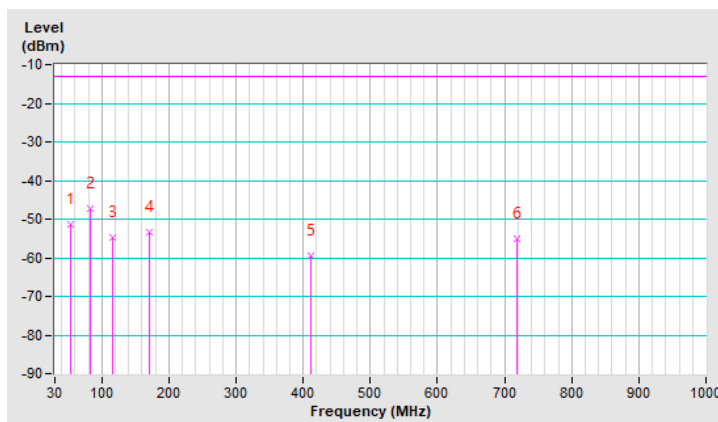


|                          |                                  |                 |                |
|--------------------------|----------------------------------|-----------------|----------------|
| Mode                     | TX channel 381500<br>(1907.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 25deg. C, 70%RH                  | Input Power     | 120Vac, 60Hz   |
| Tested By                | Hans Wu                          |                 |                |

| Antenna Polarity & Test Distance : Vertical at 3m |                 |            |             |             |                    |                      |                  |                          |
|---------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                 | 53.90           | -51.40     | -13.00      | -38.40      | 2.00 V             | 122                  | 53.00            | -104.40                  |
| 2                                                 | 83.42           | -47.30     | -13.00      | -34.30      | 1.00 V             | 163                  | 62.00            | -109.30                  |
| 3                                                 | 115.75          | -54.70     | -13.00      | -41.70      | 1.50 V             | 310                  | 52.00            | -106.70                  |
| 4                                                 | 170.58          | -53.50     | -13.00      | -40.50      | 1.00 V             | 134                  | 51.00            | -104.50                  |
| 5                                                 | 410.97          | -59.60     | -13.00      | -46.60      | 1.00 V             | 102                  | 41.30            | -100.90                  |
| 6                                                 | 718.84          | -55.20     | -13.00      | -42.20      | 1.50 V             | 278                  | 38.60            | -93.80                   |

Remarks:

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



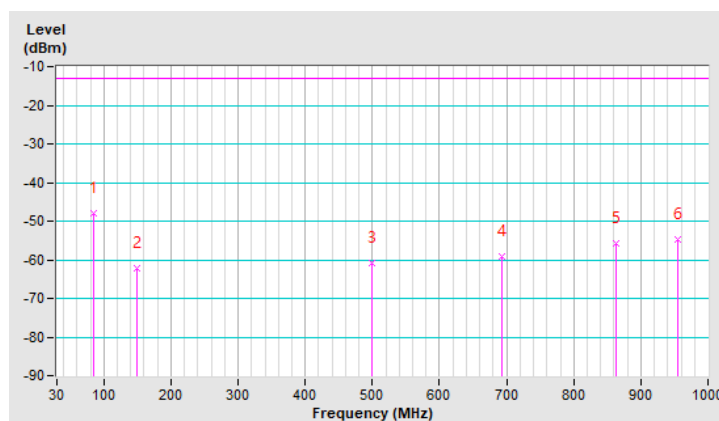
# LTE Band 5, Channel Bandwidth 10MHz

|                          |                                |                 |                |
|--------------------------|--------------------------------|-----------------|----------------|
| Mode                     | TX channel 20525<br>(836.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 25deg. C, 70%RH                | Input Power     | 120Vac, 60Hz   |
| Tested By                | Hans Wu                        |                 |                |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 84.83           | -48.00    | -13.00      | -35.00      | 1.00 H             | 170                  | 63.70            | -111.70                  |
| 2                                                    | 149.49          | -62.30    | -13.00      | -49.30      | 1.50 H             | 310                  | 44.10            | -106.20                  |
| 3                                                    | 499.54          | -60.80    | -13.00      | -47.80      | 2.00 H             | 67                   | 40.70            | -101.50                  |
| 4                                                    | 692.13          | -59.10    | -13.00      | -46.10      | 2.00 H             | 95                   | 37.50            | -96.60                   |
| 5                                                    | 863.64          | -55.80    | -13.00      | -42.80      | 1.50 H             | 329                  | 36.50            | -92.30                   |
| 6                                                    | 955.01          | -54.70    | -13.00      | -41.70      | 1.50 H             | 135                  | 35.60            | -90.30                   |

## Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

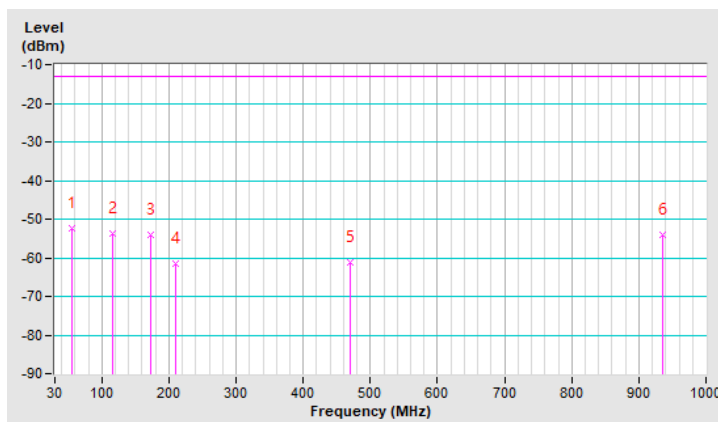


|                          |                                |                 |                |
|--------------------------|--------------------------------|-----------------|----------------|
| Mode                     | TX channel 20525<br>(836.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 25deg. C, 70%RH                | Input Power     | 120Vac, 60Hz   |
| Tested By                | Hans Wu                        |                 |                |

| Antenna Polarity & Test Distance : Vertical at 3m |                    |              |                |                |                          |                            |                        |                                |
|---------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                 | 55.30              | -52.50       | -13.00         | -39.50         | 1.50 V                   | 122                        | 54.00                  | -106.50                        |
| 2                                                 | 115.75             | -53.60       | -13.00         | -40.60         | 1.00 V                   | 323                        | 55.20                  | -108.80                        |
| 3                                                 | 173.39             | -54.00       | -13.00         | -41.00         | 1.00 V                   | 109                        | 53.00                  | -107.00                        |
| 4                                                 | 209.94             | -61.40       | -13.00         | -48.40         | 1.50 V                   | 139                        | 47.80                  | -109.20                        |
| 5                                                 | 470.01             | -61.20       | -13.00         | -48.20         | 1.50 V                   | 310                        | 40.60                  | -101.80                        |
| 6                                                 | 935.33             | -54.10       | -13.00         | -41.10         | 2.00 V                   | 237                        | 36.50                  | -90.60                         |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.



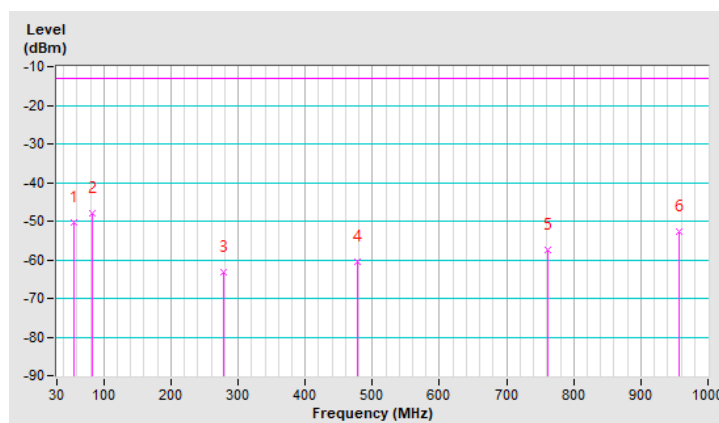
# LTE Band 12, Channel Bandwidth 1.4MHz

|                          |                                |                 |                |
|--------------------------|--------------------------------|-----------------|----------------|
| Mode                     | TX channel 23017<br>(699.7MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 25deg. C, 70%RH                | Input Power     | 120Vac, 60Hz   |
| Tested By                | Hans Wu                        |                 |                |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 55.30              | -50.40       | -13.00         | -37.40         | 1.50 H                   | 132                        | 56.10                  | -106.50                        |
| 2                                                    | 83.42              | -47.90       | -13.00         | -34.90         | 1.50 H                   | 197                        | 63.60                  | -111.50                        |
| 3                                                    | 277.42             | -63.10       | -13.00         | -50.10         | 1.00 H                   | 114                        | 42.70                  | -105.80                        |
| 4                                                    | 478.45             | -60.60       | -13.00         | -47.60         | 2.00 H                   | 76                         | 41.20                  | -101.80                        |
| 5                                                    | 761.01             | -57.60       | -13.00         | -44.60         | 1.50 H                   | 276                        | 36.90                  | -94.50                         |
| 6                                                    | 957.83             | -52.70       | -13.00         | -39.70         | 1.00 H                   | 268                        | 37.60                  | -90.30                         |

## Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

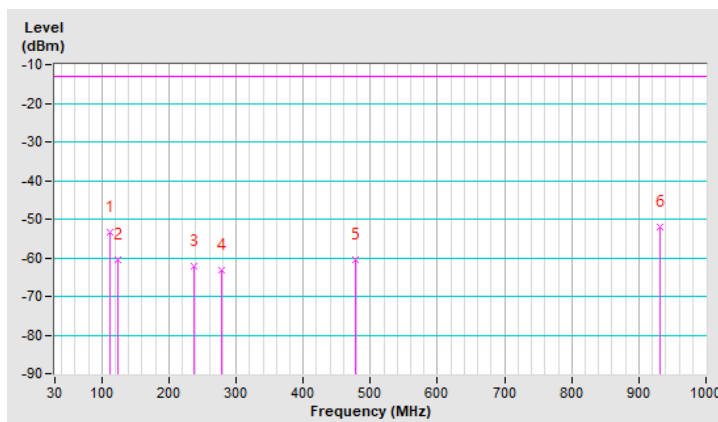


|                          |                                |                 |                |
|--------------------------|--------------------------------|-----------------|----------------|
| Mode                     | TX channel 23017<br>(699.7MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 25deg. C, 70%RH                | Input Power     | 120Vac, 60Hz   |
| Tested By                | Hans Wu                        |                 |                |

| Antenna Polarity & Test Distance : Vertical at 3m |                    |              |                |                |                          |                            |                        |                                |
|---------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                 | 111.54             | -53.30       | -13.00         | -40.30         | 1.50 V                   | 149                        | 55.90                  | -109.20                        |
| 2                                                 | 124.19             | -60.50       | -13.00         | -47.50         | 2.00 V                   | 320                        | 47.70                  | -108.20                        |
| 3                                                 | 236.65             | -62.20       | -13.00         | -49.20         | 1.50 V                   | 110                        | 45.60                  | -107.80                        |
| 4                                                 | 277.42             | -63.10       | -13.00         | -50.10         | 1.50 V                   | 114                        | 42.70                  | -105.80                        |
| 5                                                 | 478.45             | -60.60       | -13.00         | -47.60         | 1.00 V                   | 76                         | 41.20                  | -101.80                        |
| 6                                                 | 932.52             | -51.90       | -13.00         | -38.90         | 1.00 V                   | 129                        | 38.70                  | -90.60                         |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.



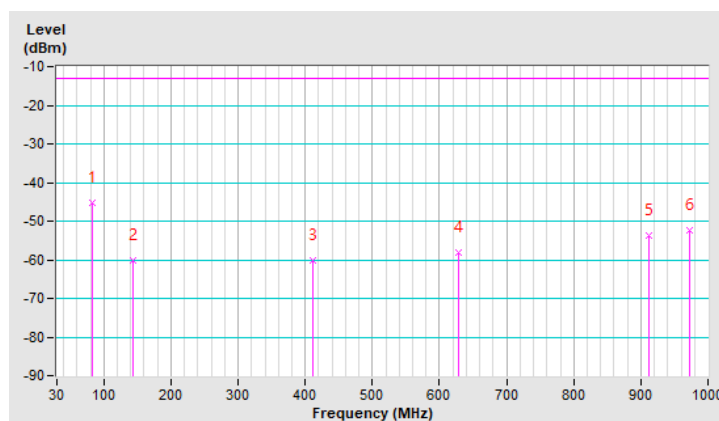
LTE Band 66, Channel Bandwidth 1.4MHz

|                          |                                  |                 |                |
|--------------------------|----------------------------------|-----------------|----------------|
| Mode                     | TX channel 132665<br>(1779.3MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 25deg. C, 70%RH                  | Input Power     | 120Vac, 60Hz   |
| Tested By                | Hans Wu                          |                 |                |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 83.42           | -45.10     | -13.00      | -32.10      | 1.50 H             | 184                  | 64.20            | -109.30                  |
| 2                                                    | 143.87          | -60.10     | -13.00      | -47.10      | 1.00 H             | 177                  | 44.30            | -104.40                  |
| 3                                                    | 410.97          | -60.20     | -13.00      | -47.20      | 2.00 H             | 235                  | 40.70            | -100.90                  |
| 4                                                    | 627.46          | -58.00     | -13.00      | -45.00      | 1.00 H             | 75                   | 37.70            | -95.70                   |
| 5                                                    | 911.43          | -53.60     | -13.00      | -40.60      | 1.50 H             | 235                  | 35.30            | -88.90                   |
| 6                                                    | 971.88          | -52.30     | -13.00      | -39.30      | 1.50 H             | 130                  | 35.60            | -87.90                   |

Remarks:

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

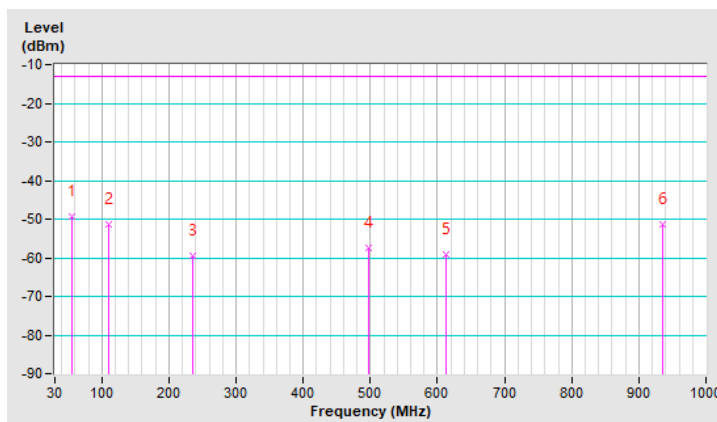


|                          |                                  |                 |                |
|--------------------------|----------------------------------|-----------------|----------------|
| Mode                     | TX channel 132665<br>(1779.3MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 25deg. C, 70%RH                  | Input Power     | 120Vac, 60Hz   |
| Tested By                | Hans Wu                          |                 |                |

| Antenna Polarity & Test Distance : Vertical at 3m |                    |               |                |                |                          |                            |                        |                                |
|---------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                 | 55.30              | -49.30        | -13.00         | -36.30         | 2.00 V                   | 129                        | 55.00                  | -104.30                        |
| 2                                                 | 110.13             | -51.20        | -13.00         | -38.20         | 2.00 V                   | 161                        | 56.10                  | -107.30                        |
| 3                                                 | 235.25             | -59.60        | -13.00         | -46.60         | 1.50 V                   | 110                        | 46.30                  | -105.90                        |
| 4                                                 | 496.72             | -57.60        | -13.00         | -44.60         | 1.50 V                   | 79                         | 41.70                  | -99.30                         |
| 5                                                 | 612.00             | -59.10        | -13.00         | -46.10         | 1.50 V                   | 336                        | 37.00                  | -96.10                         |
| 6                                                 | 935.33             | -51.50        | -13.00         | -38.50         | 1.00 V                   | 256                        | 36.90                  | -88.40                         |

Remarks:

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



Above 1GHz

n2, Channel Bandwidth 5MHz

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 370500<br>(1852.5MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 21deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Luis Lee                         |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3705.00            | -68.94        | -13.00         | -55.94         | 3.29 H                   | 186                        | 27.19                  | -96.13                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3705.00            | -68.69        | -13.00         | -55.69         | 3.28 V                   | 185                        | 27.44                  | -96.13                         |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 376000<br>(1880.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 21deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Luis Lee                         |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3760.00            | -68.43        | -13.00         | -55.43         | 3.28 H                   | 185                        | 27.44                  | -95.87                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3760.00            | -67.68        | -13.00         | -54.68         | 1.42 V                   | 172                        | 28.19                  | -95.87                         |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 381500<br>(1907.5MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 21deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Luis Lee                         |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3815.00            | -68.86        | -13.00         | -55.86         | 3.26 H                   | 190                        | 26.82                  | -95.68                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3815.00            | -67.25        | -13.00         | -54.25         | 1.46 V                   | 171                        | 28.43                  | -95.68                         |

Remarks:

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

n2, Channel Bandwidth 20MHz

|                          |                                   |                 |              |
|--------------------------|-----------------------------------|-----------------|--------------|
| Mode                     | TX channel 372000<br>(1860.0MHz), | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 21deg. C, 68%RH                   | Input Power     | 120Vac, 60Hz |
| Tested By                | Luis Lee                          |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3720.00            | -68.73        | -13.00         | -55.73         | 3.25 H                   | 189                        | 27.34                  | -96.07                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3720.00            | -67.55        | -13.00         | -54.55         | 1.45 V                   | 168                        | 28.52                  | -96.07                         |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 376000<br>(1880.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 21deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Luis Lee                         |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3760.00            | -68.96        | -13.00         | -55.96         | 3.29 H                   | 192                        | 26.91                  | -95.87                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3760.00            | -67.36        | -13.00         | -54.36         | 1.44 V                   | 169                        | 28.51                  | -95.87                         |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 380000<br>(1900.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 21deg. C, 68%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Luis Lee                         |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3800.00            | -68.87        | -13.00         | -55.87         | 3.24 H                   | 185                        | 26.81                  | -95.68                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3800.00            | -67.64        | -13.00         | -54.64         | 1.40 V                   | 172                        | 28.04                  | -95.68                         |

Remarks:

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

LTE Band 5, Channel Bandwidth 1.4MHz

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20407<br>(824.7MHz) | Frequency Range | 1GHz ~ 9GHz  |
| Environmental Conditions | 21deg. C, 69%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Luis Lee                       |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1649.40         | -53.90    | -13.00      | -40.90      | 1.60 H             | 280                  | 50.44            | -104.34                  |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1649.40         | -53.40    | -13.00      | -40.40      | 1.43 V             | 196                  | 48.79            | -102.19                  |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20525<br>(836.5MHz) | Frequency Range | 1GHz ~ 9GHz  |
| Environmental Conditions | 21deg. C, 69%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Luis Lee                       |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1673.00         | -54.09    | -13.00      | -41.09      | 1.59 H             | 280                  | 50.22            | -104.31                  |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1673.00         | -52.89    | -13.00      | -39.89      | 1.39 V             | 193                  | 49.27            | -102.16                  |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20643<br>(848.3MHz) | Frequency Range | 1GHz ~ 9GHz  |
| Environmental Conditions | 21deg. C, 69%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Luis Lee                       |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1696.60            | -54.12       | -13.00         | -41.12         | 1.54 H                   | 286                        | 48.00                  | -102.12                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1696.60            | -53.17       | -13.00         | -40.17         | 1.38 V                   | 197                        | 48.95                  | -102.12                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

LTE Band 5, Channel Bandwidth 5MHz

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20425<br>(826.5MHz) | Frequency Range | 1GHz ~ 9GHz  |
| Environmental Conditions | 21deg. C, 69%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Luis Lee                       |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1653.00            | -54.15       | -13.00         | -41.15         | 1.54 H                   | 283                        | 50.17                  | -104.32                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1653.00            | -52.99       | -13.00         | -39.99         | 1.46 V                   | 190                        | 51.33                  | -104.32                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20525<br>(836.5MHz) | Frequency Range | 1GHz ~ 9GHz  |
| Environmental Conditions | 21deg. C, 69%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Luis Lee                       |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1673.00            | -54.37       | -13.00         | -41.37         | 1.55 H                   | 284                        | 47.79                  | -102.16                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1673.00            | -53.43       | -13.00         | -40.43         | 1.40 V                   | 193                        | 50.88                  | -104.31                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20625<br>(846.5MHz) | Frequency Range | 1GHz ~ 9GHz  |
| Environmental Conditions | 21deg. C, 69%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Luis Lee                       |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1693.00            | -54.59       | -13.00         | -41.59         | 1.53 H                   | 281                        | 49.69                  | -104.28                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1693.00            | -53.05       | -13.00         | -40.05         | 1.47 V                   | 197                        | 51.23                  | -104.28                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

LTE Band 5, Channel Bandwidth 10MHz

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20450<br>(829.0MHz) | Frequency Range | 1GHz ~ 9GHz  |
| Environmental Conditions | 21deg. C, 69%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Luis Lee                       |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1658.00            | -54.08       | -13.00         | -41.08         | 1.56 H                   | 287                        | 50.23                  | -104.31                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1658.00            | -53.21       | -13.00         | -40.21         | 1.46 V                   | 197                        | 51.10                  | -104.31                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20525<br>(836.5MHz) | Frequency Range | 1GHz ~ 9GHz  |
| Environmental Conditions | 21deg. C, 69%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Luis Lee                       |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1673.00            | -54.39       | -13.00         | -41.39         | 1.59 H                   | 288                        | 49.92                  | -104.31                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1673.00            | -52.73       | -13.00         | -39.73         | 1.39 V                   | 196                        | 51.58                  | -104.31                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20600<br>(844.0MHz) | Frequency Range | 1GHz ~ 9GHz  |
| Environmental Conditions | 21deg. C, 69%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Luis Lee                       |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1688.00            | -53.95       | -13.00         | -40.95         | 1.53 H                   | 281                        | 48.19                  | -102.14                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1688.00            | -53.25       | -13.00         | -40.25         | 1.45 V                   | 194                        | 51.04                  | -104.29                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

LTE Band 12, Channel Bandwidth 1.4MHz

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 23017<br>(699.7MHz) | Frequency Range | 1GHz ~ 8GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1399.40            | -57.76       | -13.00         | -44.76         | 2.38 H                   | 318                        | 46.80                  | -104.56                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1399.40            | -60.26       | -13.00         | -47.26         | 1.25 V                   | 245                        | 44.30                  | -104.56                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 23095<br>(707.5MHz) | Frequency Range | 1GHz ~ 8GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1415.00            | -58.14       | -13.00         | -45.14         | 2.35 H                   | 318                        | 46.40                  | -104.54                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1415.00            | -60.04       | -13.00         | -47.04         | 1.28 V                   | 251                        | 44.50                  | -104.54                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 23173<br>(715.3MHz) | Frequency Range | 1GHz ~ 8GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1430.60            | -58.32       | -13.00         | -45.32         | 2.44 H                   | 312                        | 46.20                  | -104.52                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1430.60            | -59.92       | -13.00         | -46.92         | 1.28 V                   | 225                        | 44.60                  | -104.52                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

LTE Band 12, Channel Bandwidth 5MHz

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 23035<br>(701.5MHz) | Frequency Range | 1GHz ~ 8GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1403.00            | -58.66       | -13.00         | -45.66         | 2.44 H                   | 328                        | 45.90                  | -104.56                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1403.00            | -60.36       | -13.00         | -47.36         | 1.29 V                   | 238                        | 44.20                  | -104.56                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 23095<br>(707.5MHz) | Frequency Range | 1GHz ~ 8GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1415.00            | -58.34       | -13.00         | -45.34         | 2.44 H                   | 312                        | 46.20                  | -104.54                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1415.00            | -60.44       | -13.00         | -47.44         | 1.29 V                   | 238                        | 44.10                  | -104.54                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 23155<br>(713.5MHz) | Frequency Range | 1GHz ~ 8GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1427.00            | -58.34       | -13.00         | -45.34         | 2.44 H                   | 312                        | 46.20                  | -104.54                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1427.00            | -59.94       | -13.00         | -46.94         | 1.25 V                   | 355                        | 44.60                  | -104.54                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

LTE Band 12, Channel Bandwidth 10MHz

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 23060<br>(704.0MHz) | Frequency Range | 1GHz ~ 8GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1408.00            | -58.36       | -13.00         | -45.36         | 2.35 H                   | 312                        | 46.20                  | -104.56                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1408.00            | -60.26       | -13.00         | -47.26         | 1.35 V                   | 221                        | 44.30                  | -104.56                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 23095<br>(707.5MHz) | Frequency Range | 1GHz ~ 8GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1415.00            | -58.64       | -13.00         | -45.64         | 2.44 H                   | 328                        | 45.90                  | -104.54                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1415.00            | -60.34       | -13.00         | -47.34         | 1.22 V                   | 225                        | 44.20                  | -104.54                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 23130<br>(711.0MHz) | Frequency Range | 1GHz ~ 8GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1422.00            | -58.44       | -13.00         | -45.44         | 2.48 H                   | 315                        | 46.10                  | -104.54                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1422.00            | -60.34       | -13.00         | -47.34         | 1.18 V                   | 225                        | 44.20                  | -104.54                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

LTE Band 66, Channel Bandwidth 1.4MHz

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 131979<br>(1710.7MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3421.40            | -50.77        | -13.00         | -37.77         | 1.99 H                   | 325                        | 46.40                  | -97.17                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3421.40            | -52.67        | -13.00         | -39.67         | 1.28 V                   | 225                        | 44.50                  | -97.17                         |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 132322<br>(1745.0MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3490.00            | -50.81        | -13.00         | -37.81         | 2.02 H                   | 325                        | 46.10                  | -96.91                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3490.00            | -52.11        | -13.00         | -39.11         | 1.28 V                   | 225                        | 44.80                  | -96.91                         |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 132665<br>(1779.3MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3558.60            | -50.50        | -13.00         | -37.50         | 1.88 H                   | 324                        | 46.20                  | -96.70                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3558.60            | -51.90        | -13.00         | -38.90         | 1.32 V                   | 228                        | 44.80                  | -96.70                         |

Remarks:

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

LTE Band 66, Channel Bandwidth 5MHz

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 131997<br>(1712.5MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3425.00            | -51.20        | -13.00         | -38.20         | 1.84 H                   | 302                        | 46.00                  | -97.20                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3425.00            | -52.20        | -13.00         | -39.20         | 1.33 V                   | 230                        | 45.00                  | -97.20                         |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 132322<br>(1745.0MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3490.00            | -51.11        | -13.00         | -38.11         | 1.85 H                   | 305                        | 45.80                  | -96.91                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3490.00            | -52.11        | -13.00         | -39.11         | 1.32 V                   | 228                        | 44.80                  | -96.91                         |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 132647<br>(1777.5MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3555.00            | -50.61        | -13.00         | -37.61         | 1.82 H                   | 328                        | 46.10                  | -96.71                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3555.00            | -51.81        | -13.00         | -38.81         | 1.32 V                   | 221                        | 44.90                  | -96.71                         |

Remarks:

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

LTE Band 66, Channel Bandwidth 20MHz

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 132072<br>(1720.0MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3440.00            | -50.90        | -13.00         | -37.90         | 1.92 H                   | 318                        | 46.20                  | -97.10                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3440.00            | -52.40        | -13.00         | -39.40         | 1.15 V                   | 218                        | 44.70                  | -97.10                         |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 132322<br>(1745.0MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3490.00            | -51.01        | -13.00         | -38.01         | 1.82 H                   | 321                        | 45.90                  | -96.91                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3490.00            | -52.31        | -13.00         | -39.31         | 1.82 V                   | 321                        | 44.60                  | -96.91                         |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 132572<br>(1770.0MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3540.00            | -50.86        | -13.00         | -37.86         | 1.92 H                   | 324                        | 45.90                  | -96.76                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3540.00            | -52.16        | -13.00         | -39.16         | 1.92 V                   | 339                        | 44.60                  | -96.76                         |

Remarks:

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

## External Antenna

Below 1GHz

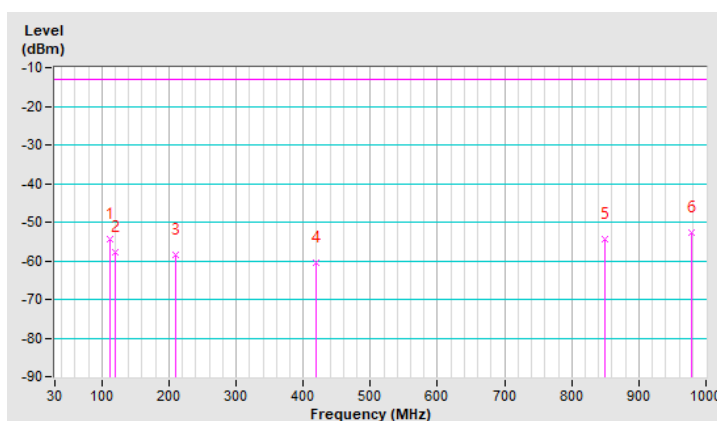
n2, Channel Bandwidth 5MHz

|                          |                                  |                 |                |
|--------------------------|----------------------------------|-----------------|----------------|
| Mode                     | TX channel 381500<br>(1907.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 25deg. C, 70%RH                  | Input Power     | 120Vac, 60Hz   |
| Tested By                | Hans Wu                          |                 |                |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 111.54             | -54.40        | -13.00         | -41.40         | 2.00 H                   | 313                        | 52.70                  | -107.10                        |
| 2                                                    | 119.97             | -57.90        | -13.00         | -44.90         | 1.00 H                   | 157                        | 48.50                  | -106.40                        |
| 3                                                    | 209.94             | -58.60        | -13.00         | -45.60         | 1.00 H                   | 135                        | 48.40                  | -107.00                        |
| 4                                                    | 419.41             | -60.40        | -13.00         | -47.40         | 1.50 H                   | 110                        | 40.30                  | -100.70                        |
| 5                                                    | 849.58             | -54.50        | -13.00         | -41.50         | 1.50 H                   | 207                        | 36.00                  | -90.50                         |
| 6                                                    | 978.91             | -52.60        | -13.00         | -39.60         | 1.00 H                   | 198                        | 35.30                  | -87.90                         |

### Remarks:

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

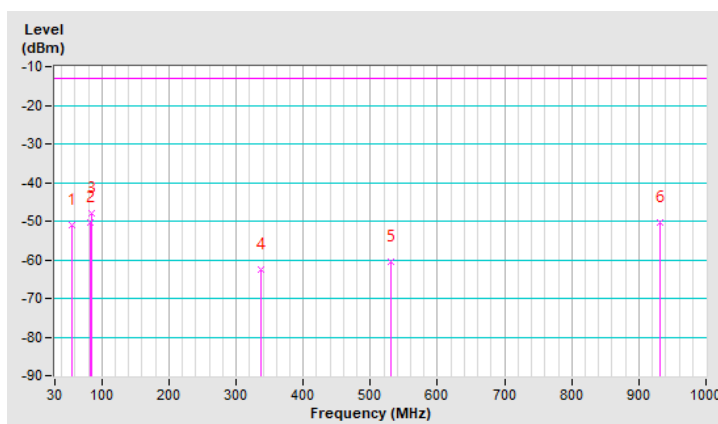


|                          |                                  |                 |                |
|--------------------------|----------------------------------|-----------------|----------------|
| Mode                     | TX channel 381500<br>(1907.5MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 25deg. C, 70%RH                  | Input Power     | 120Vac, 60Hz   |
| Tested By                | Hans Wu                          |                 |                |

| Antenna Polarity & Test Distance : Vertical at 3m |                 |            |             |             |                    |                      |                  |                          |
|---------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                 | 55.30           | -50.90     | -13.00      | -37.90      | 1.00 V             | 126                  | 53.40            | -104.30                  |
| 2                                                 | 82.01           | -50.20     | -13.00      | -37.20      | 2.00 V             | 202                  | 58.80            | -109.00                  |
| 3                                                 | 84.83           | -47.80     | -13.00      | -34.80      | 1.50 V             | 194                  | 61.70            | -109.50                  |
| 4                                                 | 336.46          | -62.70     | -13.00      | -49.70      | 1.50 V             | 279                  | 39.50            | -102.20                  |
| 5                                                 | 530.46          | -60.40     | -13.00      | -47.40      | 1.00 V             | 252                  | 38.20            | -98.60                   |
| 6                                                 | 932.52          | -50.50     | -13.00      | -37.50      | 2.00 V             | 132                  | 37.90            | -88.40                   |

Remarks:

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



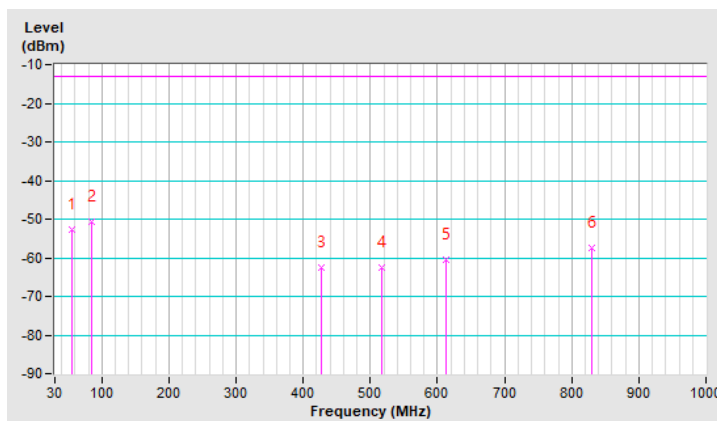
# LTE Band 5, Channel Bandwidth 1.4MHz

|                          |                                |                 |                |
|--------------------------|--------------------------------|-----------------|----------------|
| Mode                     | TX channel 20407<br>(824.7MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 25deg. C, 70%RH                | Input Power     | 120Vac, 60Hz   |
| Tested By                | Hans Wu                        |                 |                |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 55.30           | -52.80    | -13.00      | -39.80      | 1.00 H             | 150                  | 53.70            | -106.50                  |
| 2                                                    | 84.83           | -50.60    | -13.00      | -37.60      | 1.00 H             | 187                  | 61.10            | -111.70                  |
| 3                                                    | 426.43          | -62.60    | -13.00      | -49.60      | 2.00 H             | 57                   | 40.20            | -102.80                  |
| 4                                                    | 517.81          | -62.40    | -13.00      | -49.40      | 1.50 H             | 229                  | 38.60            | -101.00                  |
| 5                                                    | 612.00          | -60.60    | -13.00      | -47.60      | 1.00 H             | 3                    | 37.60            | -98.20                   |
| 6                                                    | 829.90          | -57.30    | -13.00      | -44.30      | 2.00 H             | 357                  | 35.60            | -92.90                   |

## Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

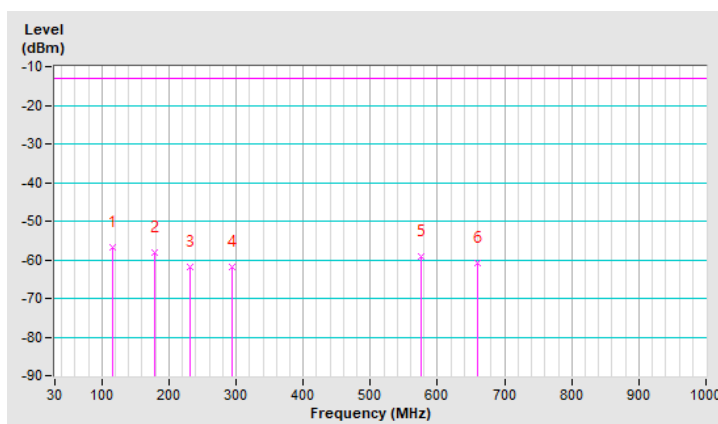


|                          |                                |                 |                |
|--------------------------|--------------------------------|-----------------|----------------|
| Mode                     | TX channel 20407<br>(824.7MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 25deg. C, 70%RH                | Input Power     | 120Vac, 60Hz   |
| Tested By                | Hans Wu                        |                 |                |

| Antenna Polarity & Test Distance : Vertical at 3m |                    |              |                |                |                          |                            |                        |                                |
|---------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                 | 115.75             | -56.80       | -13.00         | -43.80         | 1.50 V                   | 300                        | 52.00                  | -108.80                        |
| 2                                                 | 179.01             | -58.00       | -13.00         | -45.00         | 2.00 V                   | 133                        | 49.60                  | -107.60                        |
| 3                                                 | 231.03             | -61.70       | -13.00         | -48.70         | 2.00 V                   | 119                        | 47.00                  | -108.70                        |
| 4                                                 | 294.29             | -61.90       | -13.00         | -48.90         | 1.00 V                   | 262                        | 43.30                  | -105.20                        |
| 5                                                 | 575.45             | -59.20       | -13.00         | -46.20         | 1.00 V                   | 248                        | 40.40                  | -99.60                         |
| 6                                                 | 659.80             | -60.70       | -13.00         | -47.70         | 1.50 V                   | 306                        | 36.80                  | -97.50                         |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.



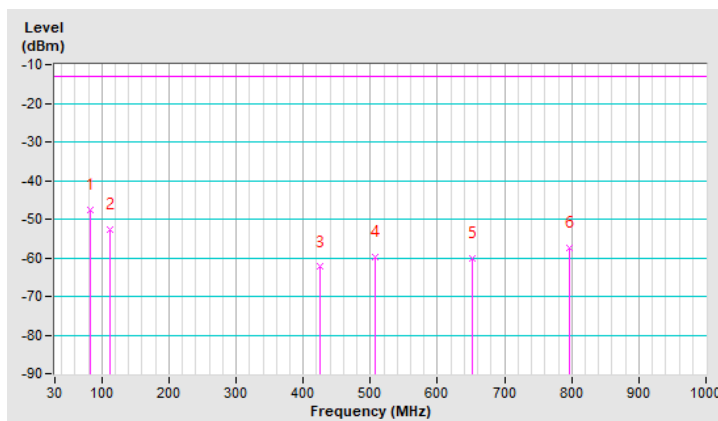
# LTE Band 12, Channel Bandwidth 10MHz

|                          |                                |                 |                |
|--------------------------|--------------------------------|-----------------|----------------|
| Mode                     | TX channel 23017<br>(699.7MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 25deg. C, 70%RH                | Input Power     | 120Vac, 60Hz   |
| Tested By                | Hans Wu                        |                 |                |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 83.42           | -47.70    | -13.00      | -34.70      | 2.00 H             | 184                  | 63.80            | -111.50                  |
| 2                                                    | 111.54          | -52.80    | -13.00      | -39.80      | 2.00 H             | 323                  | 56.40            | -109.20                  |
| 3                                                    | 425.03          | -62.40    | -13.00      | -49.40      | 1.50 H             | 308                  | 40.40            | -102.80                  |
| 4                                                    | 507.97          | -59.80    | -13.00      | -46.80      | 1.50 H             | 85                   | 41.20            | -101.00                  |
| 5                                                    | 651.36          | -60.10    | -13.00      | -47.10      | 1.00 H             | 96                   | 37.60            | -97.70                   |
| 6                                                    | 796.16          | -57.40    | -13.00      | -44.40      | 1.50 H             | 173                  | 36.40            | -93.80                   |

## Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

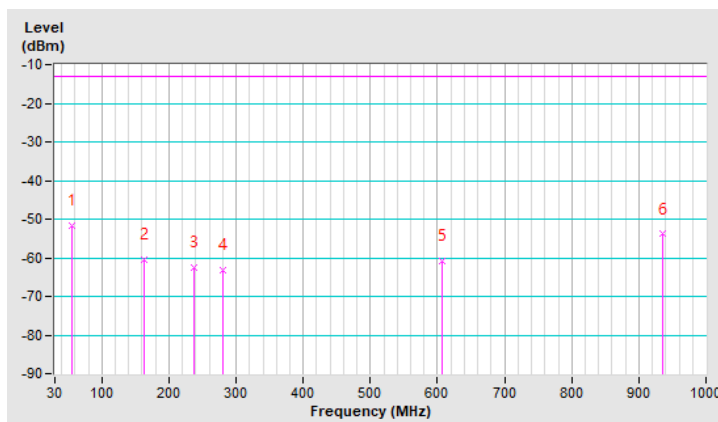


|                          |                                |                 |                |
|--------------------------|--------------------------------|-----------------|----------------|
| Mode                     | TX channel 23017<br>(699.7MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 25deg. C, 70%RH                | Input Power     | 120Vac, 60Hz   |
| Tested By                | Hans Wu                        |                 |                |

| Antenna Polarity & Test Distance : Vertical at 3m |                    |              |                |                |                          |                            |                        |                                |
|---------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                 | 55.30              | -51.70       | -13.00         | -38.70         | 1.00 V                   | 131                        | 54.80                  | -106.50                        |
| 2                                                 | 163.55             | -60.40       | -13.00         | -47.40         | 1.00 V                   | 151                        | 46.00                  | -106.40                        |
| 3                                                 | 236.65             | -62.60       | -13.00         | -49.60         | 1.50 V                   | 104                        | 45.20                  | -107.80                        |
| 4                                                 | 280.23             | -63.10       | -13.00         | -50.10         | 1.50 V                   | 300                        | 42.60                  | -105.70                        |
| 5                                                 | 606.38             | -61.00       | -13.00         | -48.00         | 2.00 V                   | 260                        | 37.40                  | -98.40                         |
| 6                                                 | 935.33             | -53.90       | -13.00         | -40.90         | 1.50 V                   | 8                          | 36.70                  | -90.60                         |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.



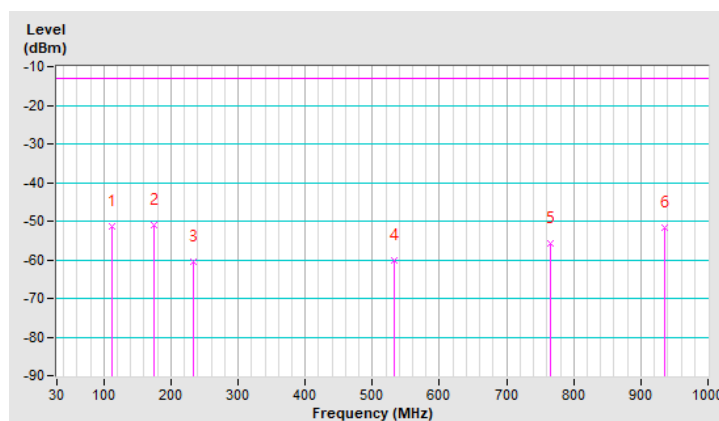
LTE Band 66, Channel Bandwidth 1.4MHz

|                          |                                  |                 |                |
|--------------------------|----------------------------------|-----------------|----------------|
| Mode                     | TX channel 132322<br>(1745.0MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 25deg. C, 70%RH                  | Input Power     | 120Vac, 60Hz   |
| Tested By                | Hans Wu                          |                 |                |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 111.54          | -51.20     | -13.00      | -38.20      | 1.00 H             | 145                  | 55.90            | -107.10                  |
| 2                                                    | 174.80          | -50.90     | -13.00      | -37.90      | 2.00 H             | 125                  | 54.00            | -104.90                  |
| 3                                                    | 232.43          | -60.50     | -13.00      | -47.50      | 1.50 H             | 103                  | 45.80            | -106.30                  |
| 4                                                    | 531.87          | -60.30     | -13.00      | -47.30      | 1.50 H             | 279                  | 38.30            | -98.60                   |
| 5                                                    | 765.23          | -55.70     | -13.00      | -42.70      | 2.00 H             | 213                  | 36.40            | -92.10                   |
| 6                                                    | 935.33          | -51.70     | -13.00      | -38.70      | 1.50 H             | 359                  | 36.70            | -88.40                   |

Remarks:

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

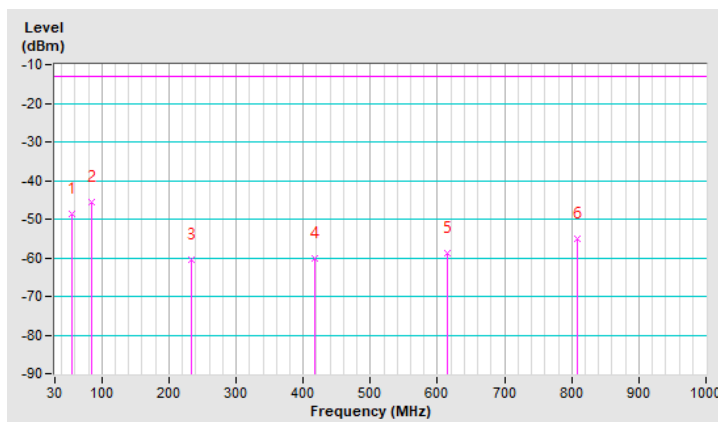


|                          |                                  |                 |                |
|--------------------------|----------------------------------|-----------------|----------------|
| Mode                     | TX channel 132322<br>(1745.0MHz) | Frequency Range | Below 1000 MHz |
| Environmental Conditions | 25deg. C, 70%RH                  | Input Power     | 120Vac, 60Hz   |
| Tested By                | Hans Wu                          |                 |                |

| Antenna Polarity & Test Distance : Vertical at 3m |                    |               |                |                |                          |                            |                        |                                |
|---------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                 | 55.30              | -48.80        | -13.00         | -35.80         | 1.00 V                   | 139                        | 55.50                  | -104.30                        |
| 2                                                 | 84.83              | -45.60        | -13.00         | -32.60         | 1.50 V                   | 182                        | 63.90                  | -109.50                        |
| 3                                                 | 232.43             | -60.50        | -13.00         | -47.50         | 1.50 V                   | 103                        | 45.80                  | -106.30                        |
| 4                                                 | 418.00             | -60.10        | -13.00         | -47.10         | 1.00 V                   | 212                        | 40.70                  | -100.80                        |
| 5                                                 | 614.81             | -58.70        | -13.00         | -45.70         | 1.50 V                   | 45                         | 37.30                  | -96.00                         |
| 6                                                 | 808.81             | -55.20        | -13.00         | -42.20         | 1.50 V                   | 204                        | 36.10                  | -91.30                         |

Remarks:

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



Above 1GHz

n2, Channel Bandwidth 5MHz

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 370500<br>(1852.5MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3705.00            | -49.83        | -13.00         | -36.83         | 1.57 H                   | 117                        | 46.30                  | -96.13                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3705.00            | -49.33        | -13.00         | -36.33         | 1.88 V                   | 261                        | 46.80                  | -96.13                         |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 376000<br>(1880.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3760.00            | -50.07        | -13.00         | -37.07         | 1.62 H                   | 122                        | 45.80                  | -95.87                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3760.00            | -49.37        | -13.00         | -36.37         | 1.85 V                   | 262                        | 46.50                  | -95.87                         |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 381500<br>(1907.5MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3815.00            | -50.08        | -13.00         | -37.08         | 1.62 H                   | 125                        | 45.60                  | -95.68                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3815.00            | -49.28        | -13.00         | -36.28         | 1.92 V                   | 262                        | 46.40                  | -95.68                         |

Remarks:

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

n2, Channel Bandwidth 20MHz

|                          |                                   |                 |              |
|--------------------------|-----------------------------------|-----------------|--------------|
| Mode                     | TX channel 372000<br>(1860.0MHz), | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 23deg. C, 66%RH                   | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                         |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3720.00            | -50.37        | -13.00         | -37.37         | 1.62 H                   | 124                        | 45.70                  | -96.07                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3720.00            | -49.57        | -13.00         | -36.57         | 1.92 V                   | 265                        | 46.50                  | -96.07                         |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 376000<br>(1880.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3760.00            | -50.37        | -13.00         | -37.37         | 1.55 H                   | 128                        | 45.50                  | -95.87                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3760.00            | -49.77        | -13.00         | -36.77         | 1.78 V                   | 258                        | 46.10                  | -95.87                         |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 380000<br>(1900.0MHz) | Frequency Range | 1GHz ~ 20GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3800.00            | -50.18        | -13.00         | -37.18         | 1.62 H                   | 127                        | 45.50                  | -95.68                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3800.00            | -49.38        | -13.00         | -36.38         | 1.82 V                   | 248                        | 46.30                  | -95.68                         |

Remarks:

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

LTE Band 5, Channel Bandwidth 1.4MHz

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20407<br>(824.7MHz) | Frequency Range | 1GHz ~ 9GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1649.40         | -55.99    | -13.00      | -42.99      | 2.21 H             | 195                  | 48.35            | -104.34                  |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1649.40         | -48.99    | -13.00      | -35.99      | 1.45 V             | 111                  | 55.35            | -104.34                  |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20525<br>(836.5MHz) | Frequency Range | 1GHz ~ 9GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |           |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1673.00         | -56.36    | -13.00      | -43.36      | 2.23 H             | 195                  | 47.95            | -104.31                  |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |           |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 1673.00         | -50.06    | -13.00      | -37.06      | 1.45 V             | 112                  | 54.25            | -104.31                  |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20643<br>(848.3MHz) | Frequency Range | 1GHz ~ 9GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1696.60            | -56.02       | -13.00         | -43.02         | 2.05 H                   | 192                        | 48.25                  | -104.27                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1696.60            | -49.92       | -13.00         | -36.92         | 1.48 V                   | 116                        | 54.35                  | -104.27                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

LTE Band 5, Channel Bandwidth 5MHz

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20425<br>(826.5MHz) | Frequency Range | 1GHz ~ 9GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1653.00            | -56.27       | -13.00         | -43.27         | 2.23 H                   | 201                        | 48.05                  | -104.32                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1653.00            | -49.47       | -13.00         | -36.47         | 1.48 V                   | 117                        | 54.85                  | -104.32                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20525<br>(836.5MHz) | Frequency Range | 1GHz ~ 9GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1673.00            | -56.06       | -13.00         | -43.06         | 2.09 H                   | 187                        | 48.25                  | -104.31                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1673.00            | -50.26       | -13.00         | -37.26         | 1.48 V                   | 104                        | 54.05                  | -104.31                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20625<br>(846.5MHz) | Frequency Range | 1GHz ~ 9GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1693.00            | -56.13       | -13.00         | -43.13         | 2.05 H                   | 196                        | 48.15                  | -104.28                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1693.00            | -49.33       | -13.00         | -36.33         | 1.49 V                   | 114                        | 54.95                  | -104.28                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

LTE Band 5, Channel Bandwidth 10MHz

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20450<br>(829.0MHz) | Frequency Range | 1GHz ~ 9GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1658.00            | -55.96       | -13.00         | -42.96         | 2.05 H                   | 186                        | 48.35                  | -104.31                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1658.00            | -49.86       | -13.00         | -36.86         | 1.48 V                   | 115                        | 54.45                  | -104.31                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20525<br>(836.5MHz) | Frequency Range | 1GHz ~ 9GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1673.00            | -56.06       | -13.00         | -43.06         | 2.05 H                   | 188                        | 48.25                  | -104.31                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1673.00            | -49.96       | -13.00         | -36.96         | 1.48 V                   | 115                        | 54.35                  | -104.31                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 20600<br>(844.0MHz) | Frequency Range | 1GHz ~ 9GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1688.00            | -56.24       | -13.00         | -43.24         | 2.05 H                   | 188                        | 48.05                  | -104.29                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1688.00            | -49.54       | -13.00         | -36.54         | 1.45 V                   | 103                        | 54.75                  | -104.29                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

LTE Band 12, Channel Bandwidth 1.4MHz

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 23017<br>(699.7MHz) | Frequency Range | 1GHz ~ 8GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1399.40            | -54.71       | -13.00         | -41.71         | 2.56 H                   | 185                        | 49.85                  | -104.56                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1399.40            | -50.14       | -13.00         | -37.14         | 1.47 V                   | 123                        | 54.42                  | -104.56                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 23095<br>(707.5MHz) | Frequency Range | 1GHz ~ 8GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1415.00            | -54.98       | -13.00         | -41.98         | 2.61 H                   | 186                        | 49.56                  | -104.54                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1415.00            | -50.33       | -13.00         | -37.33         | 1.44 V                   | 128                        | 54.21                  | -104.54                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 23173<br>(715.3MHz) | Frequency Range | 1GHz ~ 8GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1430.60            | -54.74       | -13.00         | -41.74         | 2.64 H                   | 186                        | 49.78                  | -104.52                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1430.60            | -50.21       | -13.00         | -37.21         | 1.51 V                   | 123                        | 54.31                  | -104.52                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3.  $Margin\ value = ERP - Limit\ value$
4. The other ERP levels were very low against the limit.

LTE Band 12, Channel Bandwidth 5MHz

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 23035<br>(701.5MHz) | Frequency Range | 1GHz ~ 8GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1403.00            | -54.84       | -13.00         | -41.84         | 2.58 H                   | 187                        | 49.72                  | -104.56                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1403.00            | -50.18       | -13.00         | -37.18         | 1.54 V                   | 129                        | 54.38                  | -104.56                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 23095<br>(707.5MHz) | Frequency Range | 1GHz ~ 8GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1415.00            | -54.82       | -13.00         | -41.82         | 2.56 H                   | 183                        | 49.72                  | -104.54                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1415.00            | -50.30       | -13.00         | -37.30         | 1.45 V                   | 127                        | 54.24                  | -104.54                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 23155<br>(713.5MHz) | Frequency Range | 1GHz ~ 8GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1427.00            | -54.72       | -13.00         | -41.72         | 2.54 H                   | 182                        | 49.82                  | -104.54                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1427.00            | -50.35       | -13.00         | -37.35         | 1.49 V                   | 124                        | 54.19                  | -104.54                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

LTE Band 12, Channel Bandwidth 10MHz

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 23060<br>(704.0MHz) | Frequency Range | 1GHz ~ 8GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1408.00            | -54.77       | -13.00         | -41.77         | 2.60 H                   | 186                        | 49.79                  | -104.56                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1408.00            | -50.42       | -13.00         | -37.42         | 1.51 V                   | 122                        | 54.14                  | -104.56                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 23095<br>(707.5MHz) | Frequency Range | 1GHz ~ 8GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1415.00            | -54.82       | -13.00         | -41.82         | 2.56 H                   | 183                        | 49.72                  | -104.54                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1415.00            | -50.30       | -13.00         | -37.30         | 1.45 V                   | 127                        | 54.24                  | -104.54                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

|                          |                                |                 |              |
|--------------------------|--------------------------------|-----------------|--------------|
| Mode                     | TX channel 23130<br>(711.0MHz) | Frequency Range | 1GHz ~ 8GHz  |
| Environmental Conditions | 23deg. C, 66%RH                | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                      |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |              |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|--------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1422.00            | -54.95       | -13.00         | -41.95         | 2.59 H                   | 182                        | 49.59                  | -104.54                        |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |              |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | ERP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 1422.00            | -50.42       | -13.00         | -37.42         | 1.48 V                   | 126                        | 54.12                  | -104.54                        |

Remarks:

1.  $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2.  $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

LTE Band 66, Channel Bandwidth 1.4MHz

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 131979<br>(1710.7MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3421.40         | -52.05     | -13.00      | -39.05      | 3.21 H             | 253                  | 45.12            | -97.17                   |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3421.40         | -51.01     | -13.00      | -38.01      | 2.63 V             | 270                  | 46.16            | -97.17                   |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 132322<br>(1745.0MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3490.00         | -52.13     | -13.00      | -39.13      | 3.14 H             | 254                  | 44.78            | -96.91                   |
| Antenna Polarity & Test Distance : Vertical at 3m    |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3490.00         | -50.92     | -13.00      | -37.92      | 2.63 V             | 276                  | 45.99            | -96.91                   |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 132665<br>(1779.3MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3558.60            | -52.12        | -13.00         | -39.12         | 3.17 H                   | 256                        | 44.58                  | -96.70                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3558.60            | -51.07        | -13.00         | -38.07         | 2.59 V                   | 274                        | 45.63                  | -96.70                         |

Remarks:

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

LTE Band 66, Channel Bandwidth 5MHz

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 131997<br>(1712.5MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3425.00            | -51.91        | -13.00         | -38.91         | 3.14 H                   | 250                        | 45.23                  | -97.14                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3425.00            | -51.18        | -13.00         | -38.18         | 2.58 V                   | 274                        | 45.96                  | -97.14                         |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 132322<br>(1745.0MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3490.00            | -51.94        | -13.00         | -38.94         | 3.18 H                   | 254                        | 44.97                  | -96.91                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3490.00            | -51.20        | -13.00         | -38.20         | 2.57 V                   | 272                        | 45.71                  | -96.91                         |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 132647<br>(1777.5MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3555.00            | -52.11        | -13.00         | -39.11         | 3.17 H                   | 252                        | 44.60                  | -96.71                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3555.00            | -50.94        | -13.00         | -37.94         | 2.58 V                   | 274                        | 45.77                  | -96.71                         |

Remarks:

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

LTE Band 66, Channel Bandwidth 20MHz

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 132072<br>(1720.0MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3440.00            | -52.08        | -13.00         | -39.08         | 3.20 H                   | 251                        | 45.02                  | -97.10                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3440.00            | -51.02        | -13.00         | -38.02         | 2.57 V                   | 274                        | 46.08                  | -97.10                         |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 132322<br>(1745.0MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3490.00            | -51.98        | -13.00         | -38.98         | 3.22 H                   | 252                        | 44.93                  | -96.91                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3490.00            | -50.97        | -13.00         | -37.97         | 2.62 V                   | 271                        | 45.94                  | -96.91                         |

Remarks:

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

|                          |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Mode                     | TX channel 132572<br>(1770.0MHz) | Frequency Range | 1GHz ~ 18GHz |
| Environmental Conditions | 23deg. C, 66%RH                  | Input Power     | 120Vac, 60Hz |
| Tested By                | Titan Hsu                        |                 |              |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                    |               |                |                |                          |                            |                        |                                |
|------------------------------------------------------|--------------------|---------------|----------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3540.00            | -51.97        | -13.00         | -38.97         | 3.14 H                   | 250                        | 44.79                  | -96.76                         |
| Antenna Polarity & Test Distance : Vertical at 3m    |                    |               |                |                |                          |                            |                        |                                |
| No                                                   | Frequency<br>(MHz) | EIRP<br>(dBm) | Limit<br>(dBm) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1                                                    | 3540.00            | -51.12        | -13.00         | -38.12         | 2.53 V                   | 273                        | 45.64                  | -96.76                         |

Remarks:

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

## 5 Pictures of Test Arrangements

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

## Appendix – Information of the Testing Laboratories

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

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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