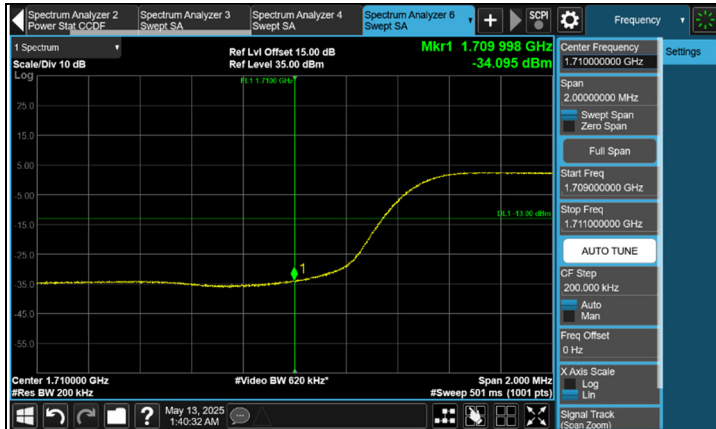
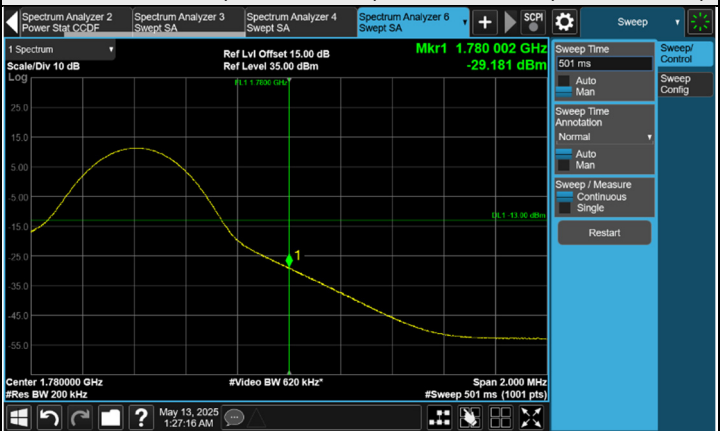
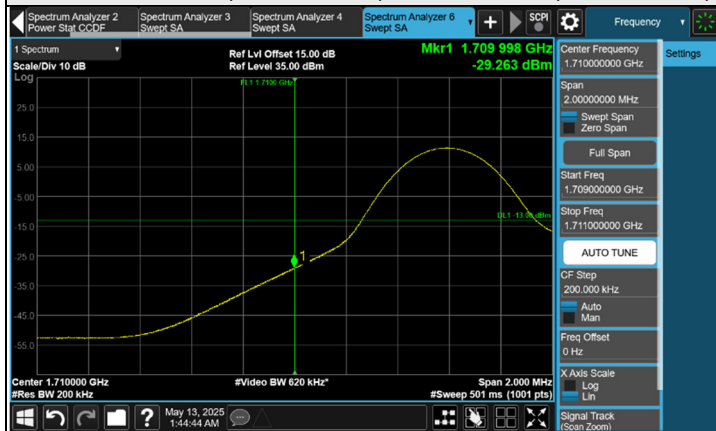




FULL CH 132022(1715.0 MHz) + CH 132121(1724.9 MHz)

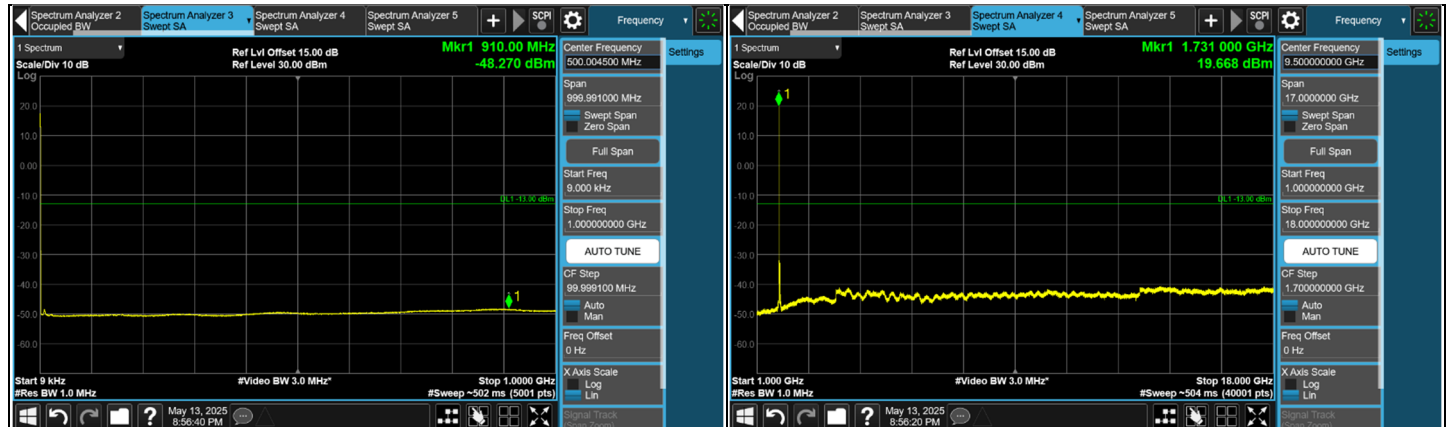
FULL CH 132523(1765.1 MHz) + CH 132622(1775.0 MHz)



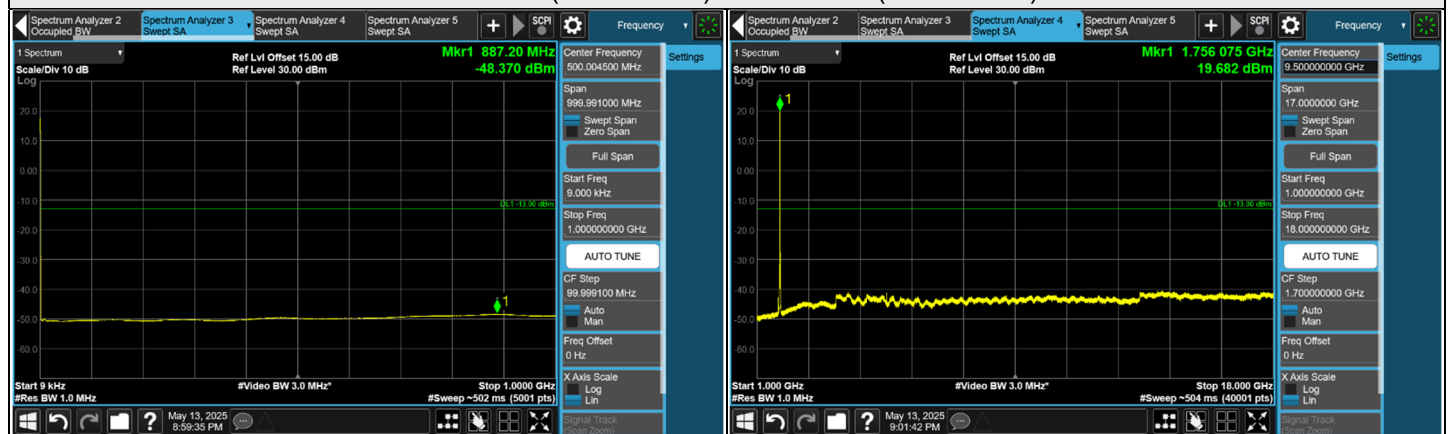
1RB CH 132022(1715.0 MHz) + CH 132121(1724.9 MHz)

1RB CH 132523(1765.1 MHz) + CH 132622(1775.0 MHz)

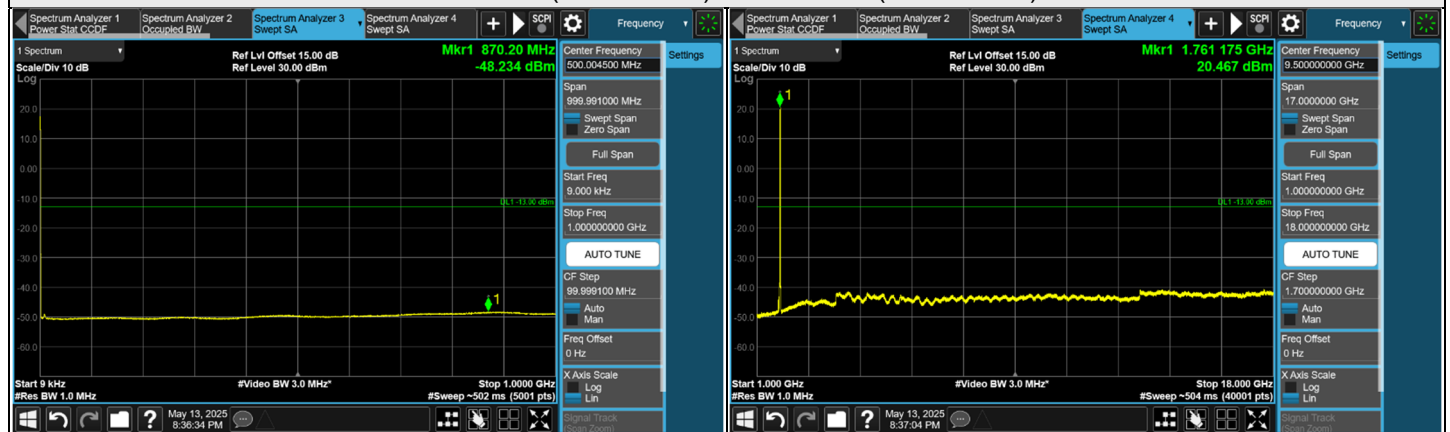
### 7.4.3 LTE Band 66C



#### CH 132072(1720.0 MHz) + CH 132270(1739.8 MHz)

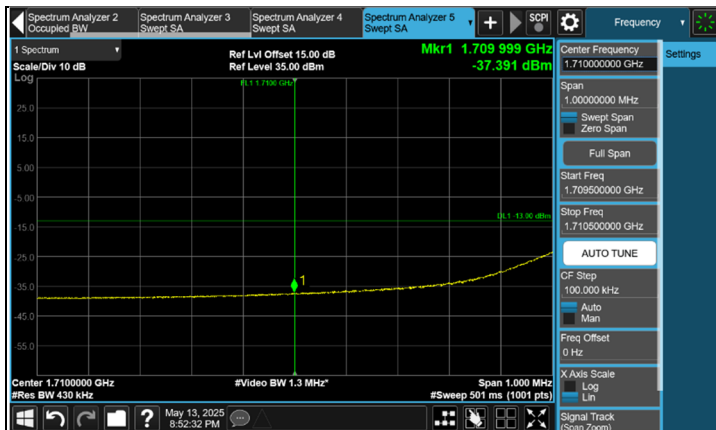


#### CH 132323(1745.1 MHz) + CH 132521(1764.9 MHz)



#### CH 132374(1750.2 MHz) + CH 132572(1770.0 MHz)

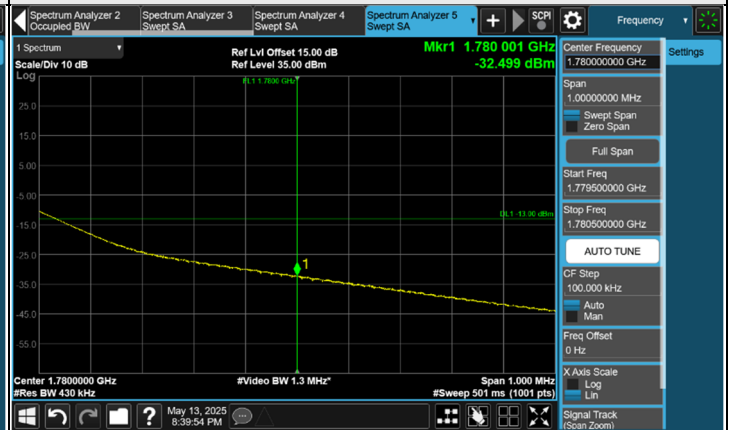
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



FULL CH 132072(1720.0 MHz) + CH 132270(1739.8 MHz)



FULL CH 132374(1750.2 MHz) + CH 132572(1770.0 MHz)



1RB CH 132072(1720.0 MHz) + CH 132270(1739.8 MHz)

1RB CH 132374(1750.2 MHz) + CH 132572(1770.0 MHz)

## 7.5 Radiated Spurious Emissions below 1GHz

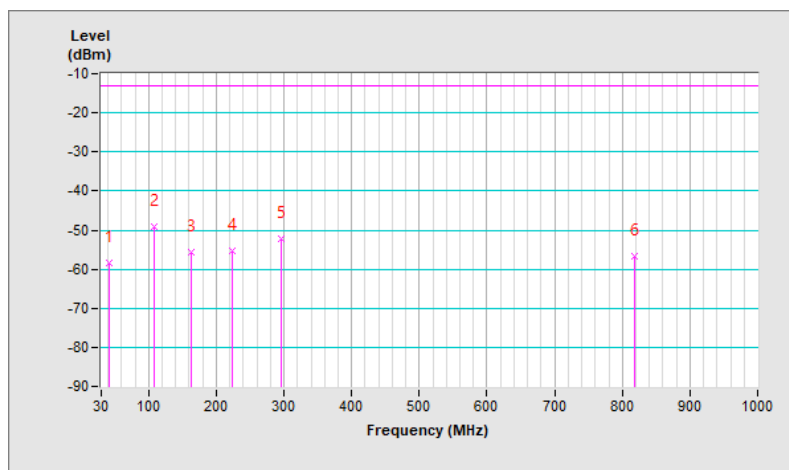
### 7.5.1 LTE Band 2C

|                        |                                                   |                                          |                                             |
|------------------------|---------------------------------------------------|------------------------------------------|---------------------------------------------|
| <b>RF Mode</b>         | LTE Band 2C<br>Channel Bandwidth: 20 MHz + 20 MHz | <b>Channel</b>                           | CH 18902(1880.2 MHz) +<br>19100(1900.0 MHz) |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                                    | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)                           |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                    | <b>Environmental Conditions</b>          | 22 °C, 68 % RH                              |
| <b>Tested By</b>       | Edison Lee                                        |                                          |                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 42.61           | -58.50     | -13.00      | -45.50      | 1.00 H             | 258                  | 50.02            | -108.52                  |
| 2                                                    | 108.57          | -49.21     | -13.00      | -36.21      | 1.00 H             | 245                  | 62.24            | -111.45                  |
| 3                                                    | 163.86          | -55.80     | -13.00      | -42.80      | 1.50 H             | 275                  | 52.54            | -108.34                  |
| 4                                                    | 224.00          | -55.30     | -13.00      | -42.30      | 2.00 H             | 286                  | 56.14            | -111.44                  |
| 5                                                    | 295.78          | -52.21     | -13.00      | -39.21      | 1.00 H             | 114                  | 55.45            | -107.66                  |
| 6                                                    | 818.61          | -56.53     | -13.00      | -43.53      | 1.50 H             | 11                   | 40.66            | -97.19                   |

#### 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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

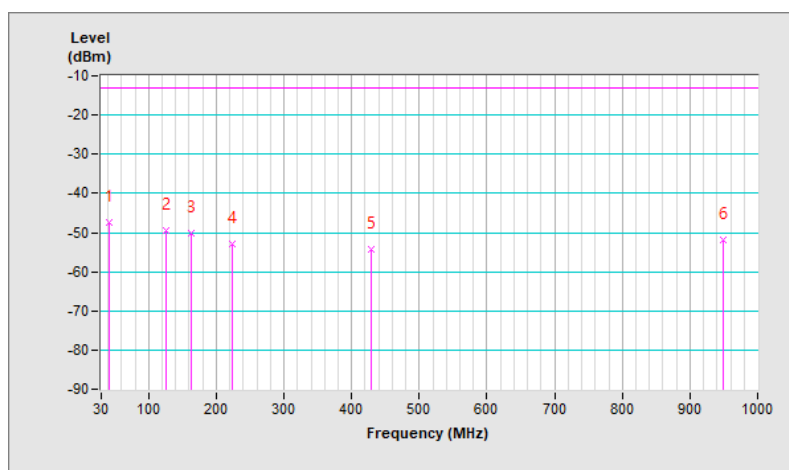


|                        |                                                   |                                          |                                             |
|------------------------|---------------------------------------------------|------------------------------------------|---------------------------------------------|
| <b>RF Mode</b>         | LTE Band 2C<br>Channel Bandwidth: 20 MHz + 20 MHz | <b>Channel</b>                           | CH 18902(1880.2 MHz) +<br>19100(1900.0 MHz) |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                                    | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)                           |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                    | <b>Environmental Conditions</b>          | 22 °C, 68 % RH                              |
| <b>Tested By</b>       | Edison Lee                                        |                                          |                                             |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |            |             |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 42.61           | -47.26     | -13.00      | -34.26      | 1.50 V             | 309                  | 61.26            | -108.52                  |
| 2                                                  | 125.06          | -49.48     | -13.00      | -36.48      | 1.00 V             | 193                  | 60.33            | -109.81                  |
| 3                                                  | 162.89          | -50.13     | -13.00      | -37.13      | 2.00 V             | 190                  | 58.15            | -108.28                  |
| 4                                                  | 223.03          | -52.88     | -13.00      | -39.88      | 1.00 V             | 143                  | 58.60            | -111.48                  |
| 5                                                  | 428.67          | -54.41     | -13.00      | -41.41      | 2.00 V             | 138                  | 49.83            | -104.24                  |
| 6                                                  | 949.56          | -52.03     | -13.00      | -39.03      | 1.00 V             | 9                    | 43.15            | -95.18                   |

#### 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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



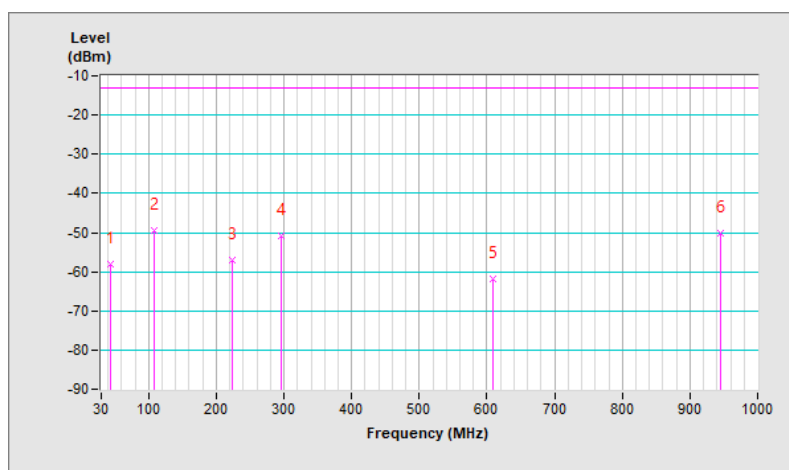
### 7.5.2 LTE Band 66B

|                        |                                                    |                                          |                                               |
|------------------------|----------------------------------------------------|------------------------------------------|-----------------------------------------------|
| <b>RF Mode</b>         | LTE Band 66B<br>Channel Bandwidth: 10 MHz + 10 MHz | <b>Channel</b>                           | CH 132523(1765.1 MHz) +<br>132622(1775.0 MHz) |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                                     | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)                             |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                     | <b>Environmental Conditions</b>          | 22 °C, 68 % RH                                |
| <b>Tested By</b>       | Edison Lee                                         |                                          |                                               |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 43.58           | -57.94     | -13.00      | -44.94      | 1.00 H             | 65                   | 50.59            | -108.53                  |
| 2                                                    | 108.57          | -49.45     | -13.00      | -36.45      | 1.00 H             | 103                  | 62.00            | -111.45                  |
| 3                                                    | 224.00          | -57.00     | -13.00      | -44.00      | 2.00 H             | 80                   | 54.44            | -111.44                  |
| 4                                                    | 295.78          | -50.88     | -13.00      | -37.88      | 1.50 H             | 171                  | 56.78            | -107.66                  |
| 5                                                    | 609.09          | -61.69     | -13.00      | -48.69      | 1.50 H             | 42                   | 38.49            | -100.18                  |
| 6                                                    | 944.71          | -50.29     | -13.00      | -37.29      | 1.00 H             | 32                   | 44.97            | -95.26                   |

#### 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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

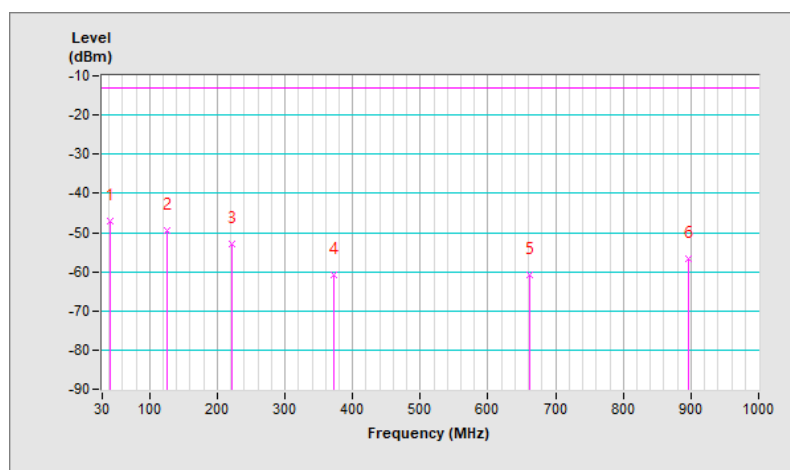


|                        |                                                    |                                          |                                               |
|------------------------|----------------------------------------------------|------------------------------------------|-----------------------------------------------|
| <b>RF Mode</b>         | LTE Band 66B<br>Channel Bandwidth: 10 MHz + 10 MHz | <b>Channel</b>                           | CH 132523(1765.1 MHz) +<br>132622(1775.0 MHz) |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                                     | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)                             |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                     | <b>Environmental Conditions</b>          | 22 °C, 68 % RH                                |
| <b>Tested By</b>       | Edison Lee                                         |                                          |                                               |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |            |             |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 42.61           | -47.22     | -13.00      | -34.22      | 1.50 V             | 158                  | 61.30            | -108.52                  |
| 2                                                  | 126.03          | -49.48     | -13.00      | -36.48      | 1.00 V             | 174                  | 60.28            | -109.76                  |
| 3                                                  | 221.09          | -53.08     | -13.00      | -40.08      | 2.00 V             | 155                  | 58.45            | -111.53                  |
| 4                                                  | 371.44          | -60.69     | -13.00      | -47.69      | 1.00 V             | 162                  | 45.14            | -105.83                  |
| 5                                                  | 661.47          | -60.85     | -13.00      | -47.85      | 2.00 V             | 176                  | 38.63            | -99.48                   |
| 6                                                  | 897.18          | -56.57     | -13.00      | -43.57      | 1.00 V             | 352                  | 39.46            | -96.03                   |

#### 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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



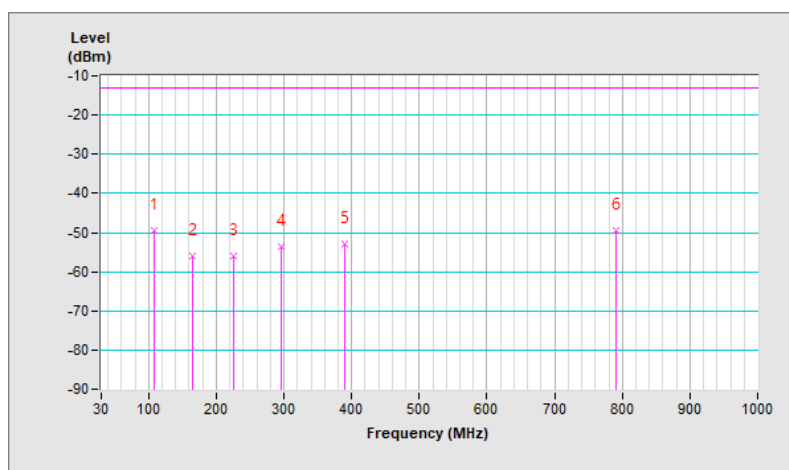
### 7.5.3 LTE Band 66C

|                        |                                                    |                                          |                                               |
|------------------------|----------------------------------------------------|------------------------------------------|-----------------------------------------------|
| <b>RF Mode</b>         | LTE Band 66C<br>Channel Bandwidth: 20 MHz + 20 MHz | <b>Channel</b>                           | CH 132323(1745.1 MHz) +<br>132521(1764.9 MHz) |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                                     | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)                             |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                     | <b>Environmental Conditions</b>          | 22 °C, 68 % RH                                |
| <b>Tested By</b>       | Edison Lee                                         |                                          |                                               |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 108.57          | -49.43     | -13.00      | -36.43      | 2.00 H             | 289                  | 62.02            | -111.45                  |
| 2                                                    | 164.83          | -56.16     | -13.00      | -43.16      | 1.00 H             | 285                  | 52.19            | -108.35                  |
| 3                                                    | 224.97          | -55.93     | -13.00      | -42.93      | 1.00 H             | 312                  | 55.49            | -111.42                  |
| 4                                                    | 296.75          | -53.66     | -13.00      | -40.66      | 1.50 H             | 349                  | 53.97            | -107.63                  |
| 5                                                    | 389.87          | -52.78     | -13.00      | -39.78      | 1.00 H             | 242                  | 52.58            | -105.36                  |
| 6                                                    | 791.45          | -49.61     | -13.00      | -36.61      | 1.50 H             | 318                  | 47.77            | -97.38                   |

#### 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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

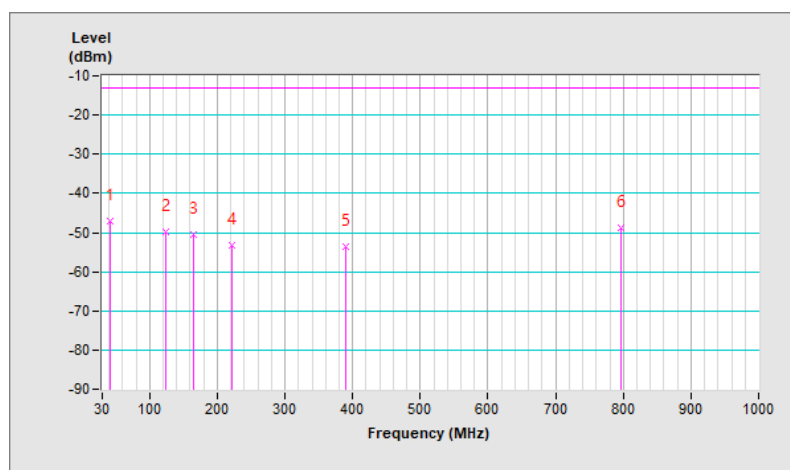


|                        |                                                    |                                          |                                               |
|------------------------|----------------------------------------------------|------------------------------------------|-----------------------------------------------|
| <b>RF Mode</b>         | LTE Band 66C<br>Channel Bandwidth: 20 MHz + 20 MHz | <b>Channel</b>                           | CH 132323(1745.1 MHz) +<br>132521(1764.9 MHz) |
| <b>Frequency Range</b> | 30 MHz ~ 1 GHz                                     | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)                             |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                     | <b>Environmental Conditions</b>          | 22 °C, 68 % RH                                |
| <b>Tested By</b>       | Edison Lee                                         |                                          |                                               |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |            |             |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 42.61           | -46.97     | -13.00      | -33.97      | 1.00 V             | 340                  | 61.55            | -108.52                  |
| 2                                                  | 124.09          | -49.93     | -13.00      | -36.93      | 1.00 V             | 164                  | 60.11            | -110.04                  |
| 3                                                  | 164.83          | -50.65     | -13.00      | -37.65      | 1.50 V             | 160                  | 57.70            | -108.35                  |
| 4                                                  | 221.09          | -53.26     | -13.00      | -40.26      | 2.00 V             | 164                  | 58.27            | -111.53                  |
| 5                                                  | 389.87          | -53.68     | -13.00      | -40.68      | 1.00 V             | 110                  | 51.68            | -105.36                  |
| 6                                                  | 797.27          | -48.63     | -13.00      | -35.63      | 1.00 V             | 235                  | 48.70            | -97.33                   |

#### 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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



## 7.6 Radiated Spurious Emissions above 1GHz

### 7.6.1 LTE Band 2C

|                        |                                                   |                                          |                                             |
|------------------------|---------------------------------------------------|------------------------------------------|---------------------------------------------|
| <b>RF Mode</b>         | LTE Band 2C<br>Channel Bandwidth: 20 MHz + 20 MHz | <b>Channel</b>                           | CH 18700(1860.0 MHz) +<br>18898(1879.8 MHz) |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                                    | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)                           |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                    | <b>Environmental Conditions</b>          | 22 °C, 68 % RH                              |
| <b>Tested By</b>       | Edison Lee                                        |                                          |                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3720.00         | -48.09     | -13.00      | -35.09      | 1.79 H             | 197                  | 46.44            | -94.53                   |
| 2                                                    | 3759.60         | -48.23     | -13.00      | -35.23      | 1.75 H             | 190                  | 45.98            | -94.21                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3720.00         | -47.33     | -13.00      | -34.33      | 1.57 V             | 340                  | 47.20            | -94.53                   |
| 2                                                    | 3759.60         | -47.21     | -13.00      | -34.21      | 1.56 V             | 344                  | 47.00            | -94.21                   |

#### 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.

|                        |                                                   |                                          |                                             |
|------------------------|---------------------------------------------------|------------------------------------------|---------------------------------------------|
| <b>RF Mode</b>         | LTE Band 2C<br>Channel Bandwidth: 20 MHz + 20 MHz | <b>Channel</b>                           | CH 18801(1870.1 MHz) +<br>18999(1889.9 MHz) |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                                    | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)                           |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                    | <b>Environmental Conditions</b>          | 22 °C, 68 % RH                              |
| <b>Tested By</b>       | Edison Lee                                        |                                          |                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3740.02         | -47.55     | -13.00      | -34.55      | 1.79 H             | 195                  | 46.80            | -94.35                   |
| 2                                                    | 3779.80         | -47.81     | -13.00      | -34.81      | 1.77 H             | 201                  | 46.30            | -94.11                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3740.02         | -46.55     | -13.00      | -33.55      | 1.66 V             | 344                  | 47.80            | -94.35                   |
| 2                                                    | 3779.80         | -46.91     | -13.00      | -33.91      | 1.67 V             | 321                  | 47.20            | -94.11                   |

**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.

|                        |                                                   |                                          |                                             |
|------------------------|---------------------------------------------------|------------------------------------------|---------------------------------------------|
| <b>RF Mode</b>         | LTE Band 2C<br>Channel Bandwidth: 20 MHz + 20 MHz | <b>Channel</b>                           | CH 18902(1880.2 MHz) +<br>19100(1900.0 MHz) |
| <b>Frequency Range</b> | 1 GHz ~ 20 GHz                                    | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)                           |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                    | <b>Environmental Conditions</b>          | 22 °C, 68 % RH                              |
| <b>Tested By</b>       | Edison Lee                                        |                                          |                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3760.40         | -47.83     | -13.00      | -34.83      | 1.71 H             | 201                  | 46.38            | -94.21                   |
| 2                                                    | 3800.00         | -47.80     | -13.00      | -34.80      | 1.76 H             | 196                  | 46.23            | -94.03                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3760.40         | -46.51     | -13.00      | -33.51      | 1.68 V             | 350                  | 47.70            | -94.21                   |
| 2                                                    | 3800.00         | -46.70     | -13.00      | -33.70      | 1.69 V             | 309                  | 47.33            | -94.03                   |

**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.

## 7.6.2 LTE Band 66B

|                        |                                                    |                                          |                                               |
|------------------------|----------------------------------------------------|------------------------------------------|-----------------------------------------------|
| <b>RF Mode</b>         | LTE Band 66B<br>Channel Bandwidth: 10 MHz + 10 MHz | <b>Channel</b>                           | CH 132022(1715.0 MHz) +<br>132121(1724.9 MHz) |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                     | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)                             |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                     | <b>Environmental Conditions</b>          | 22 °C, 68 % RH                                |
| <b>Tested By</b>       | Edison Lee                                         |                                          |                                               |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3430.00         | -47.63     | -13.00      | -34.63      | 1.29 H             | 245                  | 48.13            | -95.76                   |
| 2                                                    | 3449.80         | -47.97     | -13.00      | -34.97      | 1.26 H             | 238                  | 47.74            | -95.71                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3430.00         | -46.55     | -13.00      | -33.55      | 2.16 V             | 80                   | 49.21            | -95.76                   |
| 2                                                    | 3449.80         | -47.20     | -13.00      | -34.20      | 2.11 V             | 87                   | 48.51            | -95.71                   |

### 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.

|                        |                                                    |                                          |                                               |
|------------------------|----------------------------------------------------|------------------------------------------|-----------------------------------------------|
| <b>RF Mode</b>         | LTE Band 66B<br>Channel Bandwidth: 10 MHz + 10 MHz | <b>Channel</b>                           | CH 132373(1750.1 MHz) +<br>132472(1760.0 MHz) |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                     | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)                             |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                     | <b>Environmental Conditions</b>          | 22 °C, 68 % RH                                |
| <b>Tested By</b>       | Edison Lee                                         |                                          |                                               |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3500.02         | -47.50     | -13.00      | -34.50      | 1.32 H             | 245                  | 48.21            | -95.71                   |
| 2                                                    | 3520.00         | -47.76     | -13.00      | -34.76      | 1.25 H             | 235                  | 47.88            | -95.64                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3500.02         | -46.63     | -13.00      | -33.63      | 2.17 V             | 82                   | 49.08            | -95.71                   |
| 2                                                    | 3520.00         | -47.05     | -13.00      | -34.05      | 2.10 V             | 95                   | 48.59            | -95.64                   |

**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.

|                        |                                                    |                                          |                                               |
|------------------------|----------------------------------------------------|------------------------------------------|-----------------------------------------------|
| <b>RF Mode</b>         | LTE Band 66B<br>Channel Bandwidth: 10 MHz + 10 MHz | <b>Channel</b>                           | CH 132523(1765.1 MHz) +<br>132622(1775.0 MHz) |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                     | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)                             |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                     | <b>Environmental Conditions</b>          | 22 °C, 68 % RH                                |
| <b>Tested By</b>       | Edison Lee                                         |                                          |                                               |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3530.20         | -46.92     | -13.00      | -33.92      | 1.38 H             | 244                  | 48.67            | -95.59                   |
| 2                                                    | 3550.00         | -47.27     | -13.00      | -34.27      | 1.32 H             | 243                  | 48.25            | -95.52                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3530.20         | -46.21     | -13.00      | -33.21      | 2.20 V             | 86                   | 49.38            | -95.59                   |
| 2                                                    | 3550.00         | -46.76     | -13.00      | -33.76      | 2.17 V             | 89                   | 48.76            | -95.52                   |

**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.

### 7.6.3 LTE Band 66C

|                        |                                                    |                                          |                                               |
|------------------------|----------------------------------------------------|------------------------------------------|-----------------------------------------------|
| <b>RF Mode</b>         | LTE Band 66C<br>Channel Bandwidth: 20 MHz + 20 MHz | <b>Channel</b>                           | CH 132072(1720.0 MHz) +<br>132270(1739.8 MHz) |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                     | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)                             |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                     | <b>Environmental Conditions</b>          | 22 °C, 68 % RH                                |
| <b>Tested By</b>       | Edison Lee                                         |                                          |                                               |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3440.00         | -47.17     | -13.00      | -34.17      | 1.21 H             | 248                  | 48.56            | -95.73                   |
| 2                                                    | 3479.60         | -47.77     | -13.00      | -34.77      | 1.25 H             | 250                  | 47.95            | -95.72                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3440.00         | -46.37     | -13.00      | -33.37      | 2.18 V             | 95                   | 49.36            | -95.73                   |
| 2                                                    | 3479.60         | -47.03     | -13.00      | -34.03      | 2.11 V             | 90                   | 48.69            | -95.72                   |

#### 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.

|                        |                                                    |                                          |                                               |
|------------------------|----------------------------------------------------|------------------------------------------|-----------------------------------------------|
| <b>RF Mode</b>         | LTE Band 66C<br>Channel Bandwidth: 20 MHz + 20 MHz | <b>Channel</b>                           | CH 132323(1745.1 MHz) +<br>132521(1764.9 MHz) |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                     | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)                             |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                     | <b>Environmental Conditions</b>          | 22 °C, 68 % RH                                |
| <b>Tested By</b>       | Edison Lee                                         |                                          |                                               |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3490.20         | -47.66     | -13.00      | -34.66      | 1.38 H             | 251                  | 48.06            | -95.72                   |
| 2                                                    | 3529.80         | -48.00     | -13.00      | -35.00      | 1.25 H             | 227                  | 47.59            | -95.59                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3490.20         | -46.28     | -13.00      | -33.28      | 2.21 V             | 89                   | 49.44            | -95.72                   |
| 2                                                    | 3529.80         | -46.70     | -13.00      | -33.70      | 2.07 V             | 79                   | 48.89            | -95.59                   |

**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.

|                        |                                                    |                                          |                                               |
|------------------------|----------------------------------------------------|------------------------------------------|-----------------------------------------------|
| <b>RF Mode</b>         | LTE Band 66C<br>Channel Bandwidth: 20 MHz + 20 MHz | <b>Channel</b>                           | CH 132374(1750.2 MHz) +<br>132572(1770.0 MHz) |
| <b>Frequency Range</b> | 1 GHz ~ 18 GHz                                     | <b>Detector Function &amp; Bandwidth</b> | 1 MHz/3 MHz (RMS)                             |
| <b>Input Power</b>     | 120 Vac, 60 Hz                                     | <b>Environmental Conditions</b>          | 22 °C, 68 % RH                                |
| <b>Tested By</b>       | Edison Lee                                         |                                          |                                               |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |            |             |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3500.40         | -47.72     | -13.00      | -34.72      | 1.32 H             | 247                  | 47.99            | -95.71                   |
| 2                                                    | 3540.00         | -48.17     | -13.00      | -35.17      | 1.30 H             | 208                  | 47.39            | -95.56                   |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |            |             |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 3500.40         | -46.39     | -13.00      | -33.39      | 2.40 V             | 103                  | 49.32            | -95.71                   |
| 2                                                    | 3540.00         | -47.04     | -13.00      | -34.04      | 2.44 V             | 96                   | 48.52            | -95.56                   |

**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.

## 7.7 Frequency Stability

|                           |              |            |             |
|---------------------------|--------------|------------|-------------|
| Environmental Conditions: | 25°C, 60% RH | Tested By: | Willy Cheng |
|---------------------------|--------------|------------|-------------|

### 7.7.1 LTE Band 2C

| Frequency Stability Versus Voltage |                                          |                       |                                          |                       |
|------------------------------------|------------------------------------------|-----------------------|------------------------------------------|-----------------------|
| Voltage (Vac)                      | CH 18700(1860.0 MHz) + 18898(1879.8 MHz) |                       | CH18902 (1880.2 MHz) + 19100(1900.0 MHz) |                       |
|                                    | Frequency (MHz)                          | Frequency Error (ppm) | Frequency (MHz)                          | Frequency Error (ppm) |
| 102                                | 1859.999999                              | -0.0005               | 1899.999996                              | -0.0021               |
| 120                                | 1860.000004                              | 0.0022                | 1900.000002                              | 0.0011                |
| 138                                | 1860.000002                              | 0.0011                | 1899.999999                              | -0.0005               |

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

| Frequency Stability Versus Temperature |                                          |                       |                                          |                       |
|----------------------------------------|------------------------------------------|-----------------------|------------------------------------------|-----------------------|
| Temperature (°C)                       | CH 18700(1860.0 MHz) + 18898(1879.8 MHz) |                       | CH18902 (1880.2 MHz) + 19100(1900.0 MHz) |                       |
|                                        | Frequency (MHz)                          | Frequency Error (ppm) | Frequency (MHz)                          | Frequency Error (ppm) |
| -30                                    | 1860.000001                              | 0.0005                | 1899.999998                              | -0.0011               |
| -20                                    | 1860.000003                              | 0.0016                | 1899.999999                              | -0.0005               |
| -10                                    | 1860.000002                              | 0.0011                | 1899.999999                              | -0.0005               |
| 0                                      | 1859.999999                              | -0.0005               | 1900.000002                              | 0.0011                |
| 10                                     | 1860.000001                              | 0.0005                | 1900.000002                              | 0.0011                |
| 20                                     | 1859.999998                              | -0.0011               | 1900.000003                              | 0.0016                |
| 30                                     | 1859.999996                              | -0.0022               | 1900.000004                              | 0.0021                |
| 40                                     | 1859.999999                              | -0.0005               | 1899.999997                              | -0.0016               |
| 50                                     | 1859.999997                              | -0.0016               | 1900.000001                              | 0.0005                |

### 7.7.2 LTE Band 66B

| Frequency Stability Versus Voltage |                                            |                       |                                            |                       |
|------------------------------------|--------------------------------------------|-----------------------|--------------------------------------------|-----------------------|
| Voltage (Vac)                      | CH 132022(1715.0 MHz) + 132121(1724.9 MHz) |                       | CH 132523(1765.1 MHz) + 132622(1775.0 MHz) |                       |
|                                    | Frequency (MHz)                            | Frequency Error (ppm) | Frequency (MHz)                            | Frequency Error (ppm) |
| 102                                | 1715.000003                                | 0.002                 | 1775.000002                                | 0.001                 |
| 120                                | 1715.000004                                | 0.002                 | 1775.000002                                | 0.001                 |
| 138                                | 1715.000004                                | 0.002                 | 1775.000003                                | 0.002                 |

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

| Frequency Stability Versus Temperature |                                            |                       |                                            |                       |
|----------------------------------------|--------------------------------------------|-----------------------|--------------------------------------------|-----------------------|
| Temperature (°C)                       | CH 132022(1715.0 MHz) + 132121(1724.9 MHz) |                       | CH 132523(1765.1 MHz) + 132622(1775.0 MHz) |                       |
|                                        | Frequency (MHz)                            | Frequency Error (ppm) | Frequency (MHz)                            | Frequency Error (ppm) |
| -30                                    | 1715.000003                                | 0.002                 | 1774.999999                                | -0.001                |
| -20                                    | 1715.000004                                | 0.002                 | 1774.999997                                | -0.002                |
| -10                                    | 1715.000001                                | 0.001                 | 1775.000004                                | 0.002                 |
| 0                                      | 1714.999999                                | -0.001                | 1775.000002                                | 0.001                 |
| 10                                     | 1715.000002                                | 0.001                 | 1774.999999                                | -0.001                |
| 20                                     | 1714.999997                                | -0.002                | 1775.000003                                | 0.002                 |
| 30                                     | 1714.999999                                | -0.001                | 1774.999999                                | -0.001                |
| 40                                     | 1714.999999                                | -0.001                | 1775.000004                                | 0.002                 |
| 50                                     | 1715.000004                                | 0.002                 | 1775.000002                                | 0.001                 |

### 7.7.3 LTE Band 66C

| Frequency Stability Versus Voltage |                                            |                       |                                            |                       |
|------------------------------------|--------------------------------------------|-----------------------|--------------------------------------------|-----------------------|
| Voltage (Vac)                      | CH 132072(1720.0 MHz) + 132270(1739.8 MHz) |                       | CH 132374(1750.2 MHz) + 132572(1770.0 MHz) |                       |
|                                    | Frequency (MHz)                            | Frequency Error (ppm) | Frequency (MHz)                            | Frequency Error (ppm) |
| 102                                | 1720.000003                                | 0.0017                | 1769.999996                                | -0.0023               |
| 120                                | 1719.999998                                | -0.0012               | 1769.999999                                | -0.0006               |
| 138                                | 1719.999996                                | -0.0023               | 1770.000001                                | 0.0006                |

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

| Frequency Stability Versus Temperature |                                            |                       |                                            |                       |
|----------------------------------------|--------------------------------------------|-----------------------|--------------------------------------------|-----------------------|
| Temperature (°C)                       | CH 132072(1720.0 MHz) + 132270(1739.8 MHz) |                       | CH 132374(1750.2 MHz) + 132572(1770.0 MHz) |                       |
|                                        | Frequency (MHz)                            | Frequency Error (ppm) | Frequency (MHz)                            | Frequency Error (ppm) |
| -30                                    | 1720.000001                                | 0.0006                | 1770.000003                                | 0.0017                |
| -20                                    | 1719.999997                                | -0.0017               | 1770.000002                                | 0.0011                |
| -10                                    | 1719.999998                                | -0.0012               | 1770.000001                                | 0.0006                |
| 0                                      | 1719.999998                                | -0.0012               | 1769.999999                                | -0.0006               |
| 10                                     | 1720.000002                                | 0.0012                | 1769.999998                                | -0.0011               |
| 20                                     | 1720.000001                                | 0.0006                | 1770.000003                                | 0.0017                |
| 30                                     | 1720.000002                                | 0.0012                | 1770.000004                                | 0.0023                |
| 40                                     | 1719.999998                                | -0.0012               | 1769.999996                                | -0.0023               |
| 50                                     | 1719.999997                                | -0.0017               | 1769.999999                                | -0.0006               |

## 8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

## 9 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 according to ISO/IEC 17025.

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

**Lin Kou EMC/RF Lab**

Tel: 886-2-26052180

Fax: 886-2-26051924

**Hsin Chu EMC/RF/Telecom Lab**

Tel: 886-3-6668565

Fax: 886-3-6668323

**Hwa Ya EMC/RF/Safety Lab**

Tel: 886-3-3183232

Fax: 886-3-3270892

**Email:** [service.adt@bureauveritas.com](mailto:service.adt@bureauveritas.com)

**Web Site:** <http://ee.bureauveritas.com.tw>

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

--- END ---