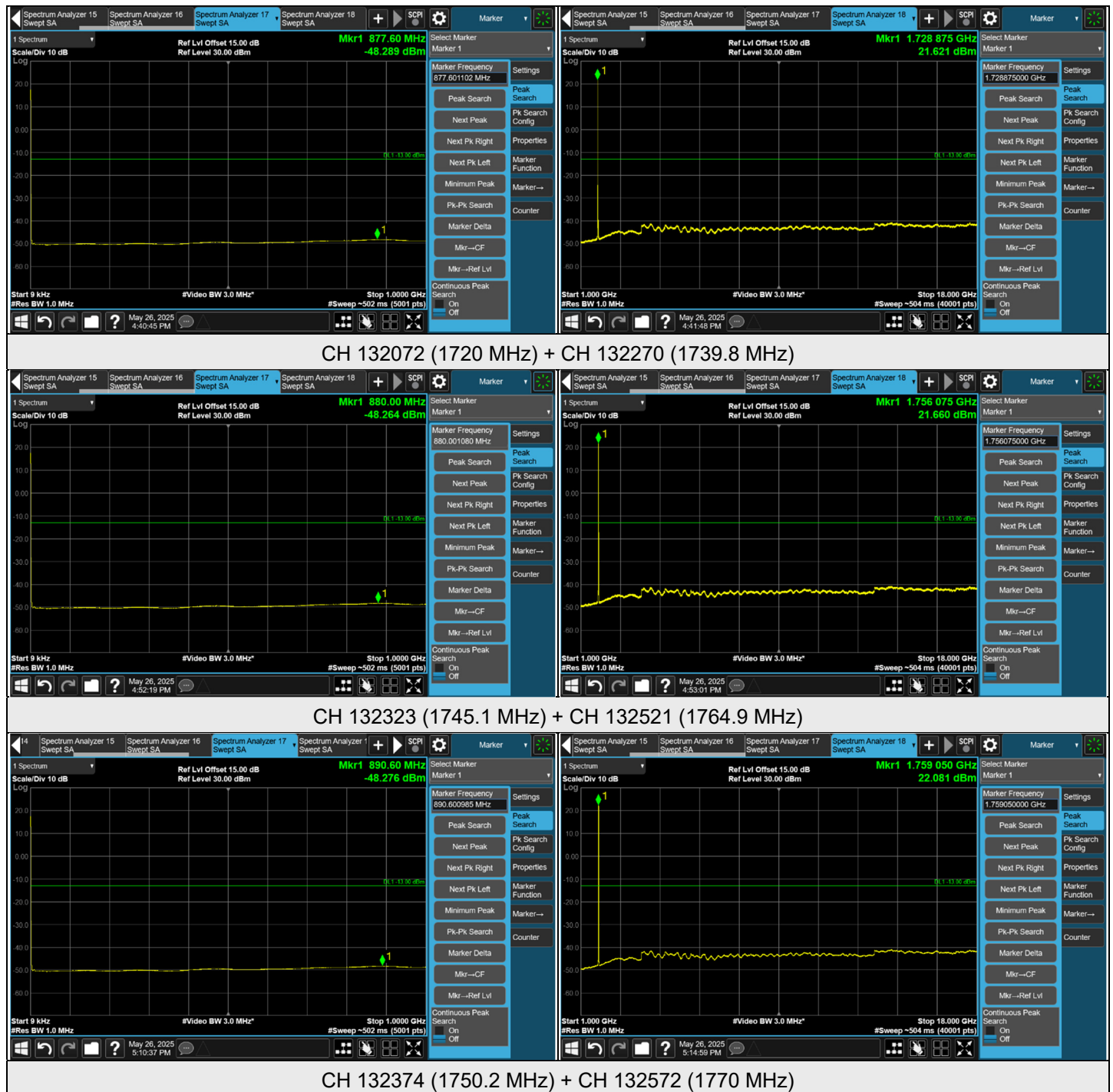


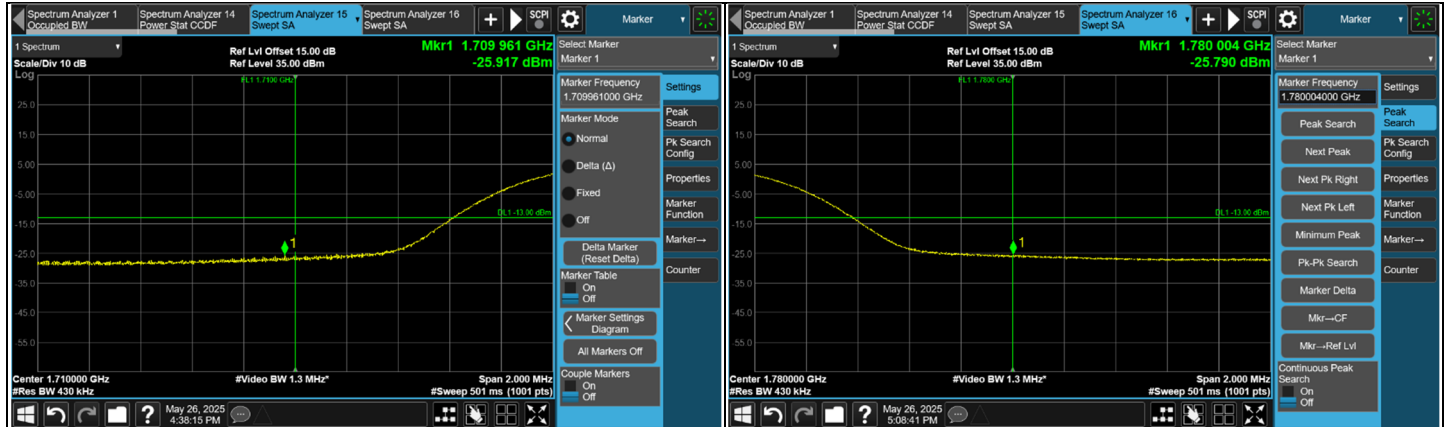
## 7.4.8 LTE Band 66 (CA 66C)

Channel Bandwidth: 20 MHz+20 MHz



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

## Modulation: QPSK



FULL CH 132072 (1720 MHz) + CH 132270 (1739.8 MHz)



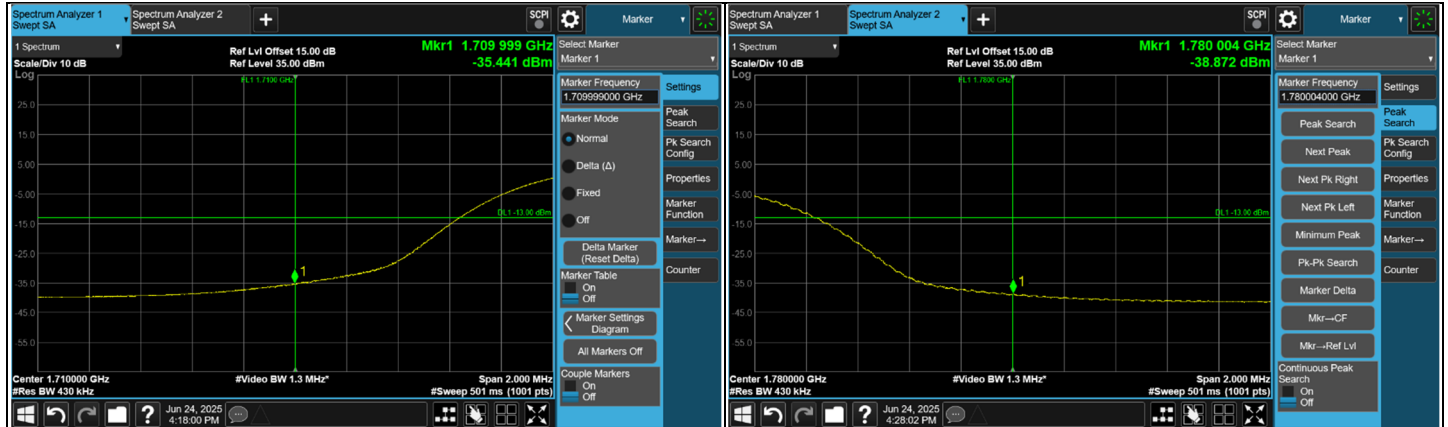
FULL CH 132374 (1750.2 MHz) + CH 132572 (1770 MHz)



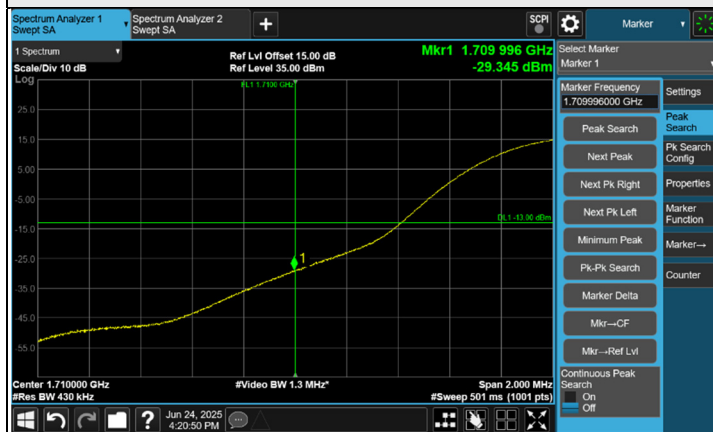
1RB CH 132072 (1720 MHz) + CH 132270 (1739.8 MHz)

1RB CH 132374 (1750.2 MHz) + CH 132572 (1770 MHz)

## Modulation: 256QAM



FULL CH 132072 (1720 MHz) + CH 132270 (1739.8 MHz)



FULL CH 132374 (1750.2 MHz) + CH 132572 (1770 MHz)



1RB CH 132072 (1720 MHz) + CH 132270 (1739.8 MHz)



1RB CH 132374 (1750.2 MHz) + CH 132572 (1770 MHz)



## 7.5 Radiated Spurious Emissions below 1GHz

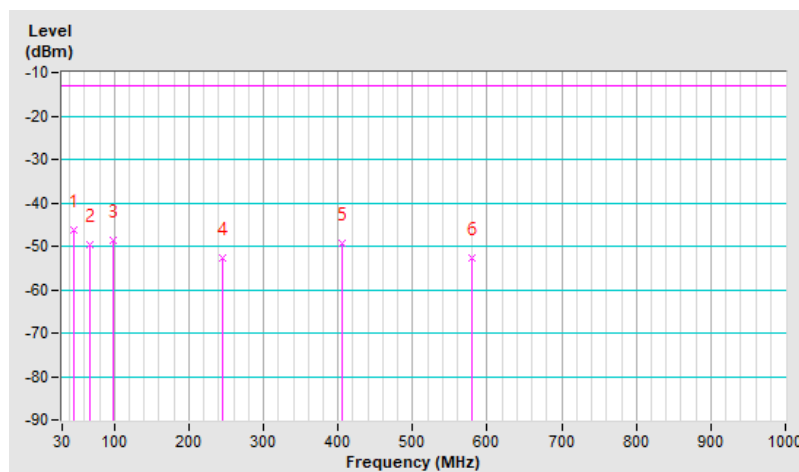
### 7.5.1 LTE Band 2 (CA 2C)

|                 |                                                        |                                  |                                                |
|-----------------|--------------------------------------------------------|----------------------------------|------------------------------------------------|
| RF Mode         | LTE Band 2 (CA 2C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 18902 (1880.2 MHz) +<br>CH 19100 (1900 MHz) |
| Frequency Range | 30 MHz ~ 1 GHz                                         | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                              |
| Input Power     | 120 Vac, 60 Hz                                         | Environmental<br>Conditions      | 23 °C, 67% RH                                  |
| Tested By       | Adair Peng                                             |                                  |                                                |

| 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                                                    | 45.52              | -46.32        | -13.00         | -33.32         | 1.50 H                   | 327                        | 57.97                  | -104.29                        |
| 2                                                    | 66.86              | -49.78        | -13.00         | -36.78         | 1.50 H                   | 327                        | 55.66                  | -105.44                        |
| 3                                                    | 97.90              | -48.55        | -13.00         | -35.55         | 2.00 H                   | 286                        | 60.28                  | -108.83                        |
| 4                                                    | 245.34             | -52.61        | -13.00         | -39.61         | 1.01 H                   | 241                        | 51.51                  | -104.12                        |
| 5                                                    | 406.36             | -49.19        | -13.00         | -36.19         | 2.00 H                   | 275                        | 50.60                  | -99.79                         |
| 6                                                    | 579.02             | -52.72        | -13.00         | -39.72         | 1.01 H                   | 295                        | 43.74                  | -96.46                         |

#### 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.

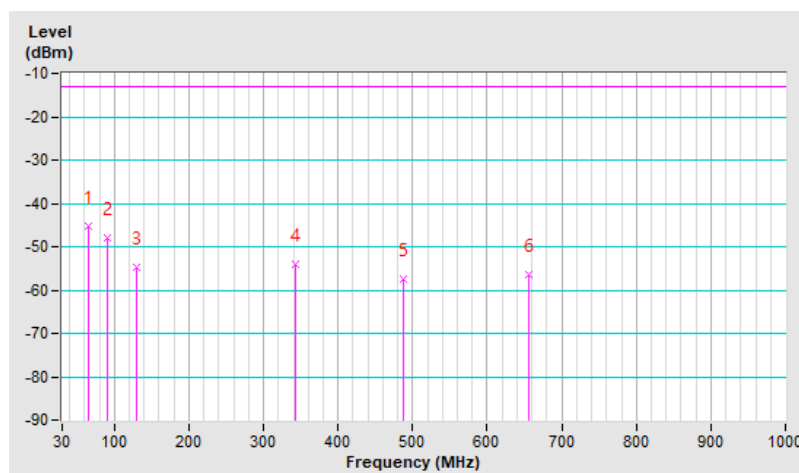


|                 |                                                        |                                  |                                                |
|-----------------|--------------------------------------------------------|----------------------------------|------------------------------------------------|
| RF Mode         | LTE Band 2 (CA 2C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 18902 (1880.2 MHz) +<br>CH 19100 (1900 MHz) |
| Frequency Range | 30 MHz ~ 1 GHz                                         | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                              |
| Input Power     | 120 Vac, 60 Hz                                         | Environmental<br>Conditions      | 23 °C, 67% RH                                  |
| Tested By       | Adair Peng                                             |                                  |                                                |

| Antenna Polarity & Test Distance : Vertical 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                                                  | 66.05              | -45.39        | -13.00         | -32.39         | 1.50 V                   | 123                        | 60.11                  | -105.50                        |
| 2                                                  | 91.11              | -47.93        | -13.00         | -34.93         | 1.00 V                   | 223                        | 61.59                  | -109.52                        |
| 3                                                  | 129.91             | -54.79        | -13.00         | -41.79         | 1.50 V                   | 15                         | 50.21                  | -105.00                        |
| 4                                                  | 343.31             | -54.23        | -13.00         | -41.23         | 1.50 V                   | 189                        | 46.76                  | -100.99                        |
| 5                                                  | 487.84             | -57.57        | -13.00         | -44.57         | 2.00 V                   | 272                        | 40.68                  | -98.25                         |
| 6                                                  | 655.65             | -56.61        | -13.00         | -43.61         | 1.00 V                   | 226                        | 38.39                  | -95.00                         |

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.



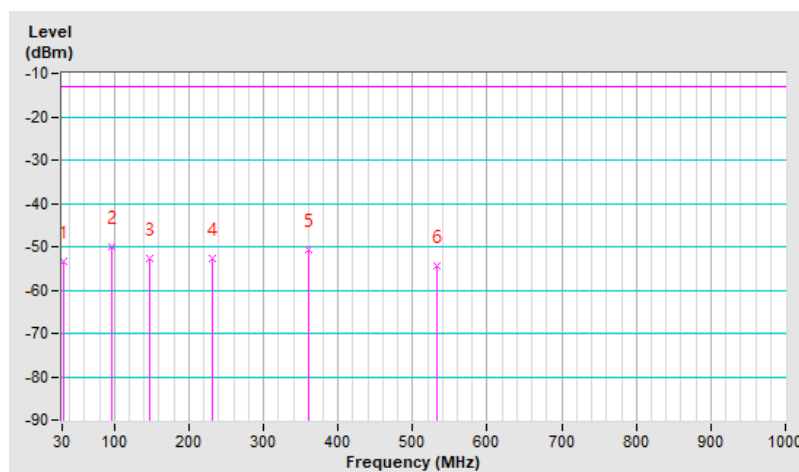
## 7.5.2 LTE Band 5 (CA 5B)

|                 |                                                        |                               |                                              |
|-----------------|--------------------------------------------------------|-------------------------------|----------------------------------------------|
| RF Mode         | LTE Band 5 (CA 5B)<br>Channel Bandwidth: 10MHz + 10MHz | Channel                       | CH 20450 (829 MHz) +<br>CH 20549 (838.9 MHz) |
| Frequency Range | 30 MHz ~ 1 GHz                                         | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS)                            |
| Input Power     | 120 Vac, 60 Hz                                         | Environmental Conditions      | 23 °C, 67% RH                                |
| Tested By       | Adair Peng                                             |                               |                                              |

| 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                                                    | 31.94           | -53.35    | -13.00      | -40.35      | 2.00 H             | 212                  | 54.45            | -107.80                  |
| 2                                                    | 95.96           | -50.11    | -13.00      | -37.11      | 2.00 H             | 276                  | 61.16            | -111.27                  |
| 3                                                    | 146.40          | -52.88    | -13.00      | -39.88      | 1.51 H             | 269                  | 52.95            | -105.83                  |
| 4                                                    | 230.79          | -52.58    | -13.00      | -39.58      | 1.00 H             | 259                  | 55.30            | -107.88                  |
| 5                                                    | 360.77          | -50.64    | -13.00      | -37.64      | 1.00 H             | 132                  | 52.17            | -102.81                  |
| 6                                                    | 532.46          | -54.50    | -13.00      | -41.50      | 1.51 H             | 250                  | 45.12            | -99.62                   |

### 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 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.

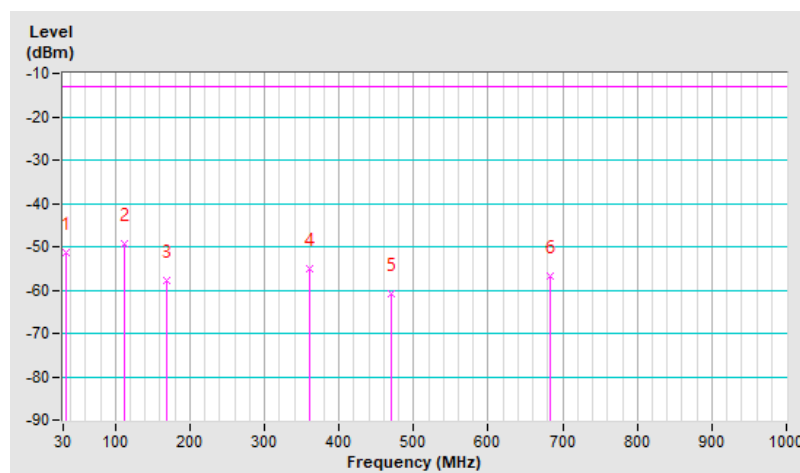


|                 |                                                        |                                  |                                              |
|-----------------|--------------------------------------------------------|----------------------------------|----------------------------------------------|
| RF Mode         | LTE Band 5 (CA 5B)<br>Channel Bandwidth: 10MHz + 10MHz | Channel                          | CH 20450 (829 MHz) +<br>CH 20549 (838.9 MHz) |
| Frequency Range | 30 MHz ~ 1 GHz                                         | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                            |
| Input Power     | 120 Vac, 60 Hz                                         | Environmental<br>Conditions      | 23 °C, 67% RH                                |
| Tested By       | Adair Peng                                             |                                  |                                              |

| Antenna Polarity & Test Distance : Vertical 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                                                  | 34.85              | -51.32       | -13.00         | -38.32         | 1.50 V                   | 248                        | 56.17                  | -107.49                        |
| 2                                                  | 112.45             | -49.48       | -13.00         | -36.48         | 1.50 V                   | 238                        | 59.40                  | -108.88                        |
| 3                                                  | 168.71             | -57.84       | -13.00         | -44.84         | 1.00 V                   | 310                        | 48.13                  | -105.97                        |
| 4                                                  | 360.77             | -54.92       | -13.00         | -41.92         | 1.00 V                   | 166                        | 47.89                  | -102.81                        |
| 5                                                  | 469.41             | -60.91       | -13.00         | -47.91         | 1.50 V                   | 206                        | 39.65                  | -100.56                        |
| 6                                                  | 682.81             | -56.90       | -13.00         | -43.90         | 1.00 V                   | 7                          | 39.86                  | -96.76                         |

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 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.



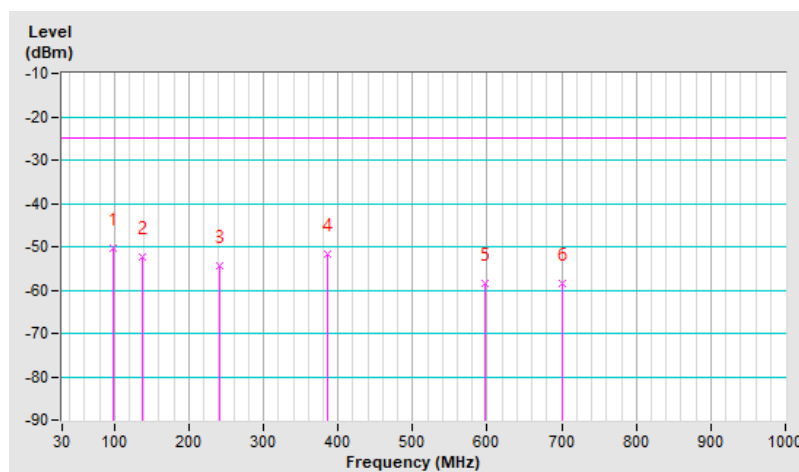
### 7.5.3 LTE Band 7 (CA 7C)

|                 |                                                        |                               |                                                  |
|-----------------|--------------------------------------------------------|-------------------------------|--------------------------------------------------|
| RF Mode         | LTE Band 7 (CA 7C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                       | CH 21001 (2525.1 MHz) +<br>CH 21199 (2544.9 MHz) |
| Frequency Range | 30 MHz ~ 1 GHz                                         | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS)                                |
| Input Power     | 120 Vac, 60 Hz                                         | Environmental Conditions      | 23 °C, 67% RH                                    |
| Tested By       | Adair Peng                                             |                               |                                                  |

| 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                                                    | 98.87           | -50.50     | -25.00      | -25.50      | 2.00 H             | 298                  | 58.08            | -108.58                  |
| 2                                                    | 136.70          | -52.22     | -25.00      | -27.22      | 2.00 H             | 115                  | 52.18            | -104.40                  |
| 3                                                    | 240.49          | -54.50     | -25.00      | -29.50      | 1.00 H             | 254                  | 49.95            | -104.45                  |
| 4                                                    | 385.99          | -51.65     | -25.00      | -26.65      | 1.50 H             | 260                  | 48.41            | -100.06                  |
| 5                                                    | 597.45          | -58.63     | -25.00      | -33.63      | 1.00 H             | 283                  | 37.30            | -95.93                   |
| 6                                                    | 701.24          | -58.64     | -25.00      | -33.64      | 1.00 H             | 216                  | 35.72            | -94.36                   |

#### 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.



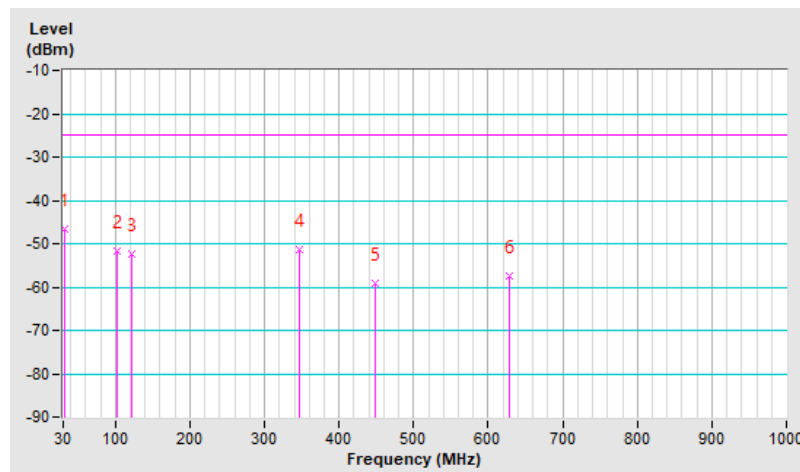


|                 |                                                        |                                  |                                                  |
|-----------------|--------------------------------------------------------|----------------------------------|--------------------------------------------------|
| RF Mode         | LTE Band 7 (CA 7C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 21001 (2525.1 MHz) +<br>CH 21199 (2544.9 MHz) |
| Frequency Range | 30 MHz ~ 1 GHz                                         | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                                |
| Input Power     | 120 Vac, 60 Hz                                         | Environmental<br>Conditions      | 23 °C, 67% RH                                    |
| Tested By       | Adair Peng                                             |                                  |                                                  |

| Antenna Polarity & Test Distance : Vertical 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                                                  | 31.94              | -46.47        | -25.00         | -21.47         | 2.00 V                   | 134                        | 59.18                  | -105.65                        |
| 2                                                  | 101.78             | -51.62        | -25.00         | -26.62         | 2.00 V                   | 229                        | 56.50                  | -108.12                        |
| 3                                                  | 121.18             | -52.43        | -25.00         | -27.43         | 1.00 V                   | 1                          | 53.47                  | -105.90                        |
| 4                                                  | 347.19             | -51.20        | -25.00         | -26.20         | 1.50 V                   | 185                        | 49.75                  | -100.95                        |
| 5                                                  | 448.07             | -59.10        | -25.00         | -34.10         | 1.00 V                   | 191                        | 39.52                  | -98.62                         |
| 6                                                  | 627.52             | -57.56        | -25.00         | -32.56         | 1.00 V                   | 113                        | 37.75                  | -95.31                         |

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.



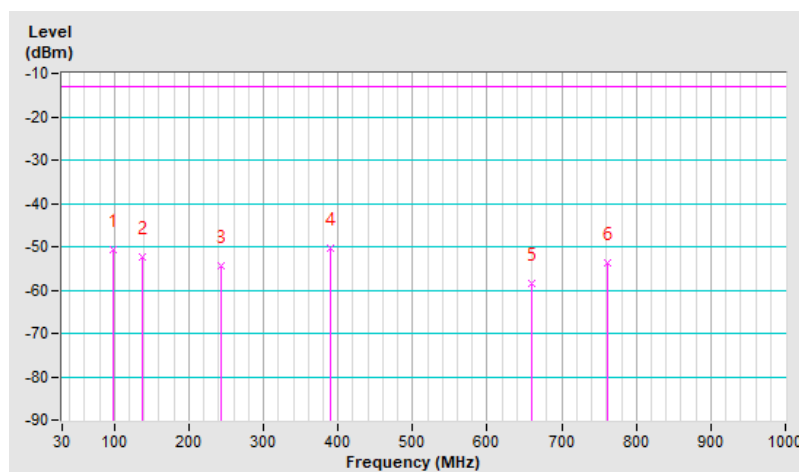
#### 7.5.4 LTE Band 12 (CA 12B)

|                 |                                                         |                                  |                                              |
|-----------------|---------------------------------------------------------|----------------------------------|----------------------------------------------|
| RF Mode         | LTE Band 12 (CA 12B)<br>Channel Bandwidth: 5MHz + 10MHz | Channel                          | CH 23038 (701.8 MHz) +<br>CH 23110 (709 MHz) |
| Frequency Range | 30 MHz ~ 1 GHz                                          | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                            |
| Input Power     | 120 Vac, 60 Hz                                          | Environmental<br>Conditions      | 23 °C, 67% RH                                |
| Tested By       | Adair Peng                                              |                                  |                                              |

| 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                                                    | 97.90           | -50.55    | -13.00      | -37.55      | 2.00 H             | 279                  | 60.43            | -110.98                  |
| 2                                                    | 136.70          | -52.40    | -13.00      | -39.40      | 2.00 H             | 94                   | 54.15            | -106.55                  |
| 3                                                    | 242.43          | -54.50    | -13.00      | -41.50      | 1.01 H             | 235                  | 51.96            | -106.46                  |
| 4                                                    | 389.87          | -50.19    | -13.00      | -37.19      | 2.00 H             | 261                  | 51.98            | -102.17                  |
| 5                                                    | 659.53          | -58.42    | -13.00      | -45.42      | 1.51 H             | 240                  | 38.71            | -97.13                   |
| 6                                                    | 761.38          | -53.89    | -13.00      | -40.89      | 1.01 H             | 248                  | 41.04            | -94.93                   |

#### 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 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.

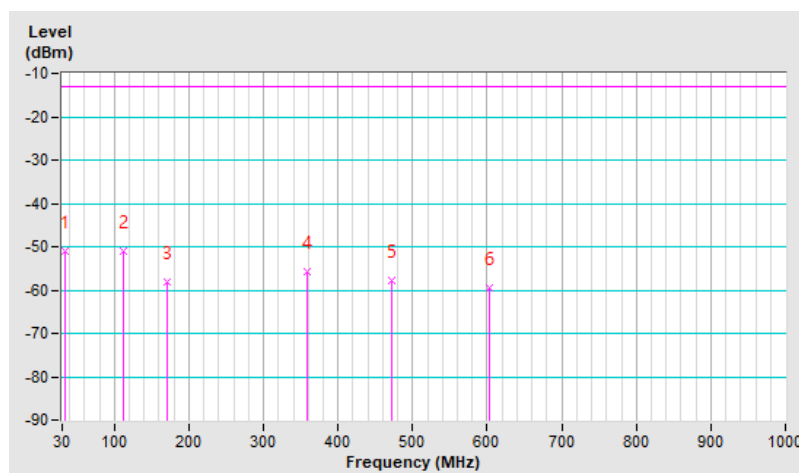


|                 |                                                         |                                  |                                              |
|-----------------|---------------------------------------------------------|----------------------------------|----------------------------------------------|
| RF Mode         | LTE Band 12 (CA 12B)<br>Channel Bandwidth: 5MHz + 10MHz | Channel                          | CH 23038 (701.8 MHz) +<br>CH 23110 (709 MHz) |
| Frequency Range | 30 MHz ~ 1 GHz                                          | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                            |
| Input Power     | 120 Vac, 60 Hz                                          | Environmental<br>Conditions      | 23 °C, 67% RH                                |
| Tested By       | Adair Peng                                              |                                  |                                              |

| Antenna Polarity & Test Distance : Vertical 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                                                  | 34.85              | -51.15       | -13.00         | -38.15         | 2.00 V                   | 19                         | 56.34                  | -107.49                        |
| 2                                                  | 112.45             | -51.13       | -13.00         | -38.13         | 1.00 V                   | 230                        | 57.75                  | -108.88                        |
| 3                                                  | 170.65             | -58.03       | -13.00         | -45.03         | 1.50 V                   | 300                        | 48.00                  | -106.03                        |
| 4                                                  | 358.83             | -55.84       | -13.00         | -42.84         | 1.00 V                   | 158                        | 47.02                  | -102.86                        |
| 5                                                  | 471.35             | -57.88       | -13.00         | -44.88         | 1.00 V                   | 171                        | 42.65                  | -100.53                        |
| 6                                                  | 602.30             | -59.60       | -13.00         | -46.60         | 1.00 V                   | 17                         | 38.33                  | -97.93                         |

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 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.



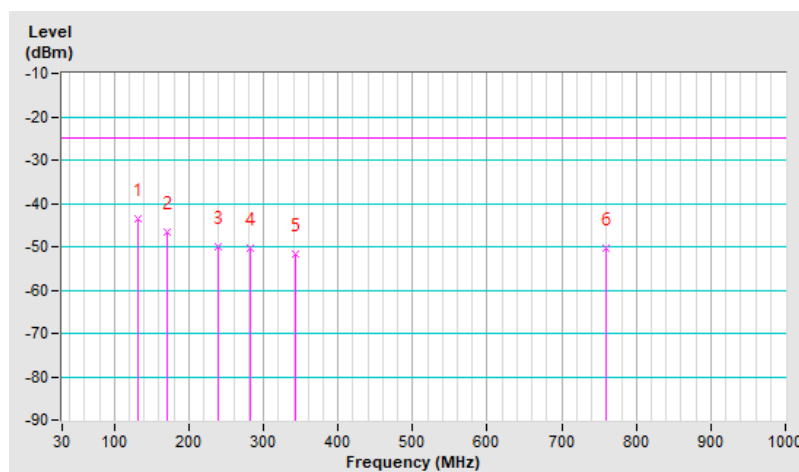
### 7.5.5 LTE Band 41 (CA 41C)

|                 |                                                          |                               |                                                  |
|-----------------|----------------------------------------------------------|-------------------------------|--------------------------------------------------|
| RF Mode         | LTE Band 41 (CA 41C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                       | CH 40521 (2583.1 MHz) +<br>CH 40719 (2602.9 MHz) |
| Frequency Range | 30 MHz ~ 1 GHz                                           | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS)                                |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental Conditions      | 23 °C, 67% RH                                    |
| Tested By       | Adair Peng                                               |                               |                                                  |

| 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                                                    | 131.22          | -43.67     | -25.00      | -18.67      | 1.50 H             | 277                  | 61.23            | -104.90                  |
| 2                                                    | 170.25          | -46.68     | -25.00      | -21.68      | 2.00 H             | 110                  | 57.15            | -103.83                  |
| 3                                                    | 240.23          | -49.93     | -25.00      | -24.93      | 1.01 H             | 225                  | 54.54            | -104.47                  |
| 4                                                    | 282.20          | -50.17     | -25.00      | -25.17      | 1.01 H             | 32                   | 52.16            | -102.33                  |
| 5                                                    | 342.34          | -51.63     | -25.00      | -26.63      | 1.01 H             | 69                   | 49.37            | -101.00                  |
| 6                                                    | 760.41          | -50.25     | -25.00      | -25.25      | 2.00 H             | 110                  | 42.56            | -92.81                   |

#### 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.

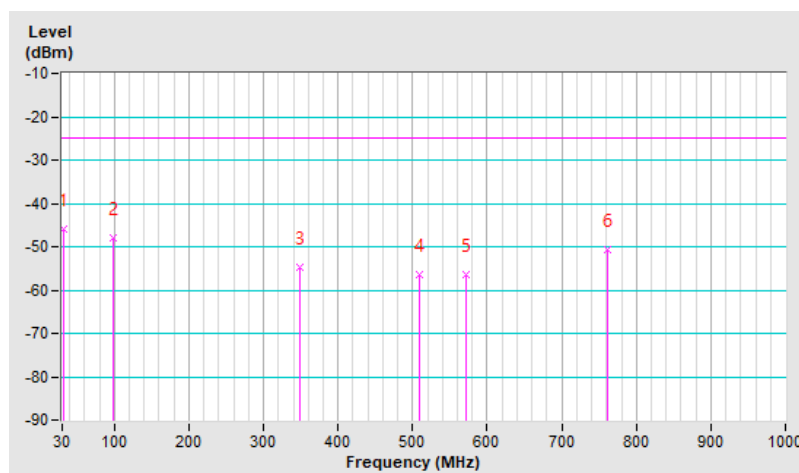


|                 |                                                          |                                  |                                                  |
|-----------------|----------------------------------------------------------|----------------------------------|--------------------------------------------------|
| RF Mode         | LTE Band 41 (CA 41C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 40521 (2583.1 MHz) +<br>CH 40719 (2602.9 MHz) |
| Frequency Range | 30 MHz ~ 1 GHz                                           | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                                |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental<br>Conditions      | 23 °C, 67% RH                                    |
| Tested By       | Adair Peng                                               |                                  |                                                  |

| Antenna Polarity & Test Distance : Vertical 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                                                  | 32.91              | -46.03        | -25.00         | -21.03         | 2.00 V                   | 211                        | 59.62                  | -105.65                        |
| 2                                                  | 98.87              | -47.99        | -25.00         | -22.99         | 1.00 V                   | 222                        | 60.59                  | -108.58                        |
| 3                                                  | 348.16             | -54.76        | -25.00         | -29.76         | 1.50 V                   | 205                        | 46.17                  | -100.93                        |
| 4                                                  | 508.21             | -56.45        | -25.00         | -31.45         | 2.00 V                   | 356                        | 41.42                  | -97.87                         |
| 5                                                  | 572.23             | -56.40        | -25.00         | -31.40         | 1.00 V                   | 329                        | 40.28                  | -96.68                         |
| 6                                                  | 761.38             | -50.79        | -25.00         | -25.79         | 1.00 V                   | 294                        | 41.99                  | -92.78                         |

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.



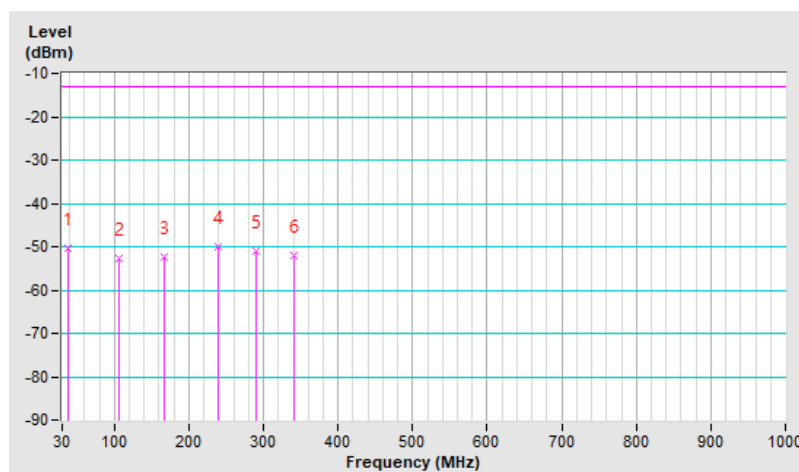
### 7.5.6 LTE Band 42 (CA 42C)

|                 |                                                          |                               |                                                |
|-----------------|----------------------------------------------------------|-------------------------------|------------------------------------------------|
| RF Mode         | LTE Band 42 (CA 42C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                       | CH 42190 (3460 MHz) +<br>CH 42388 (3479.8 MHz) |
| Frequency Range | 30 MHz ~ 1 GHz                                           | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS)                              |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental Conditions      | 23 °C, 67% RH                                  |
| Tested By       | Adair Peng                                               |                               |                                                |

| 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                                                    | 38.73           | -50.43     | -13.00      | -37.43      | 1.49 H             | 320                  | 54.58            | -105.01                  |
| 2                                                    | 106.63          | -52.56     | -13.00      | -39.56      | 1.99 H             | 3                    | 54.81            | -107.37                  |
| 3                                                    | 167.74          | -52.44     | -13.00      | -39.44      | 1.99 H             | 6                    | 51.28            | -103.72                  |
| 4                                                    | 238.55          | -49.87     | -13.00      | -36.87      | 1.49 H             | 86                   | 54.77            | -104.64                  |
| 5                                                    | 289.96          | -51.00     | -13.00      | -38.00      | 1.00 H             | 18                   | 51.15            | -102.15                  |
| 6                                                    | 341.37          | -52.00     | -13.00      | -39.00      | 1.00 H             | 70                   | 49.00            | -101.00                  |

#### 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.

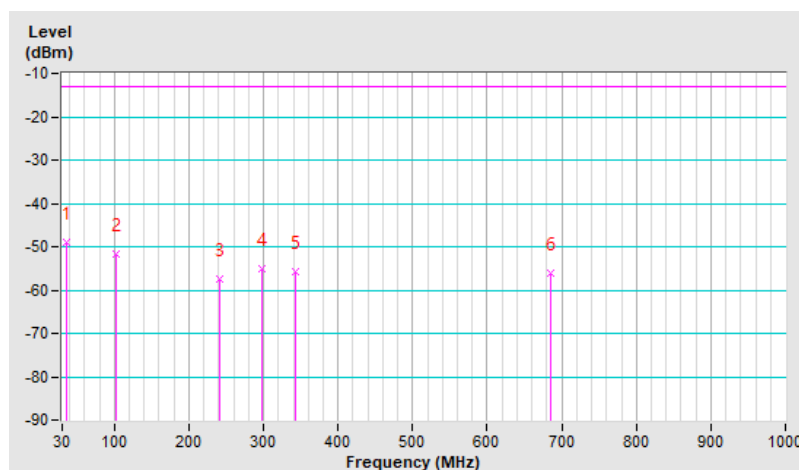


|                 |                                                          |                                  |                                                |
|-----------------|----------------------------------------------------------|----------------------------------|------------------------------------------------|
| RF Mode         | LTE Band 42 (CA 42C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 42190 (3460 MHz) +<br>CH 42388 (3479.8 MHz) |
| Frequency Range | 30 MHz ~ 1 GHz                                           | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                              |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental<br>Conditions      | 23 °C, 67% RH                                  |
| Tested By       | Adair Peng                                               |                                  |                                                |

| Antenna Polarity & Test Distance : Vertical 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                                                  | 35.82              | -49.10        | -13.00         | -36.10         | 1.01 V                   | 192                        | 56.32                  | -105.42                        |
| 2                                                  | 101.78             | -51.71        | -13.00         | -38.71         | 1.01 V                   | 109                        | 56.41                  | -108.12                        |
| 3                                                  | 241.46             | -57.30        | -13.00         | -44.30         | 2.00 V                   | 46                         | 47.08                  | -104.38                        |
| 4                                                  | 298.69             | -55.16        | -13.00         | -42.16         | 2.00 V                   | 310                        | 46.76                  | -101.92                        |
| 5                                                  | 343.31             | -55.93        | -13.00         | -42.93         | 1.01 V                   | 261                        | 45.06                  | -100.99                        |
| 6                                                  | 685.72             | -56.18        | -13.00         | -43.18         | 1.01 V                   | 310                        | 38.39                  | -94.57                         |

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)  
+ 20log(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.



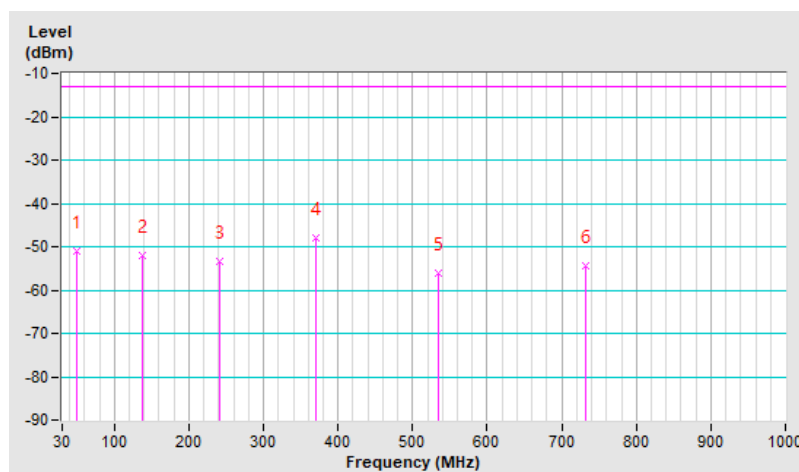
### 7.5.7 LTE Band 66 (CA 66B)

|                 |                                                          |                               |                                                  |
|-----------------|----------------------------------------------------------|-------------------------------|--------------------------------------------------|
| RF Mode         | LTE Band 66 (CA 66B)<br>Channel Bandwidth: 10MHz + 10MHz | Channel                       | CH 132523 (1765.1 MHz) +<br>CH 132622 (1775 MHz) |
| Frequency Range | 30 MHz ~ 1 GHz                                           | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS)                                |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental Conditions      | 23 °C, 67% RH                                    |
| Tested By       | Adair Peng                                               |                               |                                                  |

| 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                                                    | 49.66           | -51.13     | -13.00      | -38.13      | 1.50 H             | 111                  | 53.11            | -104.24                  |
| 2                                                    | 137.55          | -52.14     | -13.00      | -39.14      | 1.50 H             | 333                  | 52.12            | -104.26                  |
| 3                                                    | 240.55          | -53.48     | -13.00      | -40.48      | 1.50 H             | 111                  | 50.97            | -104.45                  |
| 4                                                    | 371.23          | -48.08     | -13.00      | -35.08      | 1.50 H             | 342                  | 52.26            | -100.34                  |
| 5                                                    | 535.33          | -56.18     | -13.00      | -43.18      | 1.50 H             | 319                  | 41.26            | -97.44                   |
| 6                                                    | 731.33          | -54.53     | -13.00      | -41.53      | 1.00 H             | 77                   | 39.23            | -93.76                   |

#### 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 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.



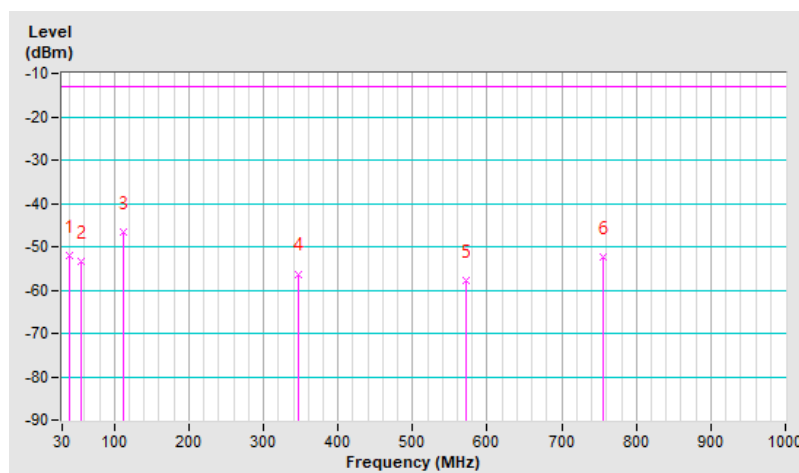


|                 |                                                          |                                  |                                                  |
|-----------------|----------------------------------------------------------|----------------------------------|--------------------------------------------------|
| RF Mode         | LTE Band 66 (CA 66B)<br>Channel Bandwidth: 10MHz + 10MHz | Channel                          | CH 132523 (1765.1 MHz) +<br>CH 132622 (1775 MHz) |
| Frequency Range | 30 MHz ~ 1 GHz                                           | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                                |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental<br>Conditions      | 23 °C, 67% RH                                    |
| Tested By       | Adair Peng                                               |                                  |                                                  |

| Antenna Polarity & Test Distance : Vertical 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                                                  | 39.70              | -52.11        | -13.00         | -39.11         | 1.50 V                   | 261                        | 52.76                  | -104.87                        |
| 2                                                  | 56.19              | -53.27        | -13.00         | -40.27         | 1.00 V                   | 59                         | 51.15                  | -104.42                        |
| 3                                                  | 111.48             | -46.53        | -13.00         | -33.53         | 2.00 V                   | 279                        | 60.32                  | -106.85                        |
| 4                                                  | 347.19             | -56.27        | -13.00         | -43.27         | 1.00 V                   | 207                        | 44.68                  | -100.95                        |
| 5                                                  | 571.26             | -57.68        | -13.00         | -44.68         | 1.50 V                   | 342                        | 39.04                  | -96.72                         |
| 6                                                  | 755.56             | -52.36        | -13.00         | -39.36         | 1.00 V                   | 242                        | 40.55                  | -92.91                         |

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 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.



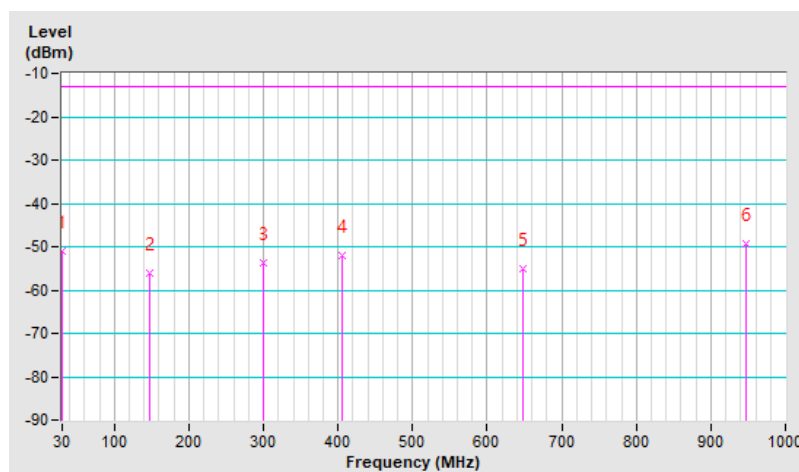
### 7.5.8 LTE Band 66 (CA 66C)

|                 |                                                          |                                  |                                                  |
|-----------------|----------------------------------------------------------|----------------------------------|--------------------------------------------------|
| RF Mode         | LTE Band 66 (CA 66C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 132374 (1750.2 MHz) +<br>CH 132572 (1770 MHz) |
| Frequency Range | 30 MHz ~ 1 GHz                                           | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                                |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental<br>Conditions      | 23 °C, 67% RH                                    |
| Tested By       | Adair Peng                                               |                                  |                                                  |

| 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                                                    | 30.00           | -50.95     | -13.00      | -37.95      | 1.00 H             | 70                   | 54.66            | -105.61                  |
| 2                                                    | 147.37          | -56.04     | -13.00      | -43.04      | 1.00 H             | 30                   | 47.68            | -103.72                  |
| 3                                                    | 300.63          | -53.66     | -13.00      | -40.66      | 1.00 H             | 302                  | 48.19            | -101.85                  |
| 4                                                    | 406.36          | -52.06     | -13.00      | -39.06      | 1.00 H             | 51                   | 47.73            | -99.79                   |
| 5                                                    | 647.89          | -55.23     | -13.00      | -42.23      | 1.00 H             | 118                  | 39.83            | -95.06                   |
| 6                                                    | 947.62          | -49.28     | -13.00      | -36.28      | 1.00 H             | 127                  | 40.51            | -89.79                   |

#### 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.

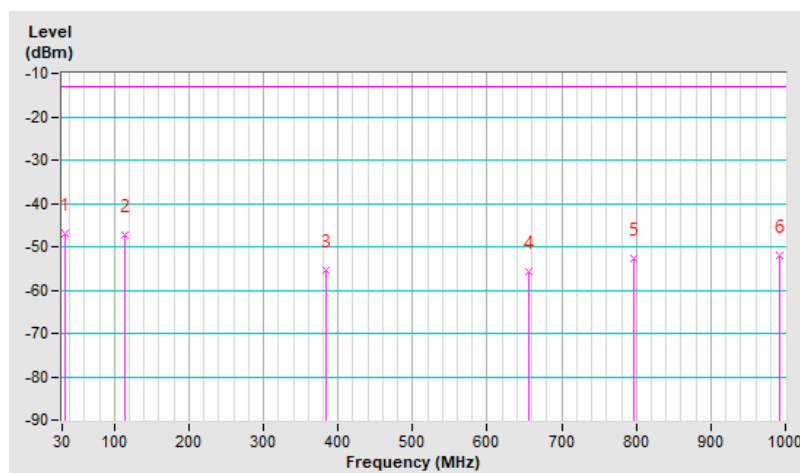


|                 |                                                          |                                  |                                                  |
|-----------------|----------------------------------------------------------|----------------------------------|--------------------------------------------------|
| RF Mode         | LTE Band 66 (CA 66C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 132374 (1750.2 MHz) +<br>CH 132572 (1770 MHz) |
| Frequency Range | 30 MHz ~ 1 GHz                                           | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                                |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental<br>Conditions      | 23 °C, 67% RH                                    |
| Tested By       | Adair Peng                                               |                                  |                                                  |

| Antenna Polarity & Test Distance : Vertical 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                                                  | 33.88              | -47.02        | -13.00         | -34.02         | 1.00 V                   | 290                        | 58.52                  | -105.54                        |
| 2                                                  | 114.39             | -47.20        | -13.00         | -34.20         | 1.00 V                   | 279                        | 59.33                  | -106.53                        |
| 3                                                  | 383.08             | -55.41        | -13.00         | -42.41         | 1.00 V                   | 213                        | 44.71                  | -100.12                        |
| 4                                                  | 655.65             | -55.90        | -13.00         | -42.90         | 1.00 V                   | 218                        | 39.10                  | -95.00                         |
| 5                                                  | 796.30             | -52.74        | -13.00         | -39.74         | 1.00 V                   | 226                        | 39.47                  | -92.21                         |
| 6                                                  | 992.24             | -51.99        | -13.00         | -38.99         | 1.00 V                   | 104                        | 37.27                  | -89.26                         |

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.



## 7.6 Radiated Spurious Emissions above 1GHz

### 7.6.1 LTE Band 2 (CA 2C)

|                 |                                                        |                               |                                                |
|-----------------|--------------------------------------------------------|-------------------------------|------------------------------------------------|
| RF Mode         | LTE Band 2 (CA 2C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                       | CH 18700 (1860.0MHz) +<br>CH 18898 (1879.8MHz) |
| Frequency Range | 1 GHz ~ 20 GHz                                         | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS)                              |
| Input Power     | 120 Vac, 60 Hz                                         | Environmental Conditions      | 23°C, 67% RH                                   |
| Tested By       | Adair Peng                                             |                               |                                                |

| 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         | -49.64     | -13.00      | -36.64      | 2.42 H             | 205                  | 44.29            | -93.93                   |
| 2                                                    | 3759.60         | -49.44     | -13.00      | -36.44      | 2.50 H             | 211                  | 44.31            | -93.75                   |
| 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         | -49.35     | -13.00      | -36.35      | 1.99 V             | 41                   | 44.58            | -93.93                   |
| 2                                                    | 3759.60         | -49.14     | -13.00      | -36.14      | 2.02 V             | 45                   | 44.61            | -93.75                   |

#### 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.

|                 |                                                        |                                  |                                                |
|-----------------|--------------------------------------------------------|----------------------------------|------------------------------------------------|
| RF Mode         | LTE Band 2 (CA 2C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 18801 (1870.1MHz) +<br>CH 18999 (1889.9MHz) |
| Frequency Range | 1 GHz ~ 20 GHz                                         | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                              |
| Input Power     | 120 Vac, 60 Hz                                         | Environmental<br>Conditions      | 23°C, 67% RH                                   |
| Tested By       | Adair Peng                                             |                                  |                                                |

| 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                                                    | 3740.02            | -49.55        | -13.00         | -36.55         | 2.45 H                   | 199                        | 44.28                  | -93.83                         |
| 2                                                    | 3779.80            | -49.44        | -13.00         | -36.44         | 2.50 H                   | 204                        | 44.25                  | -93.69                         |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 3740.02            | -49.17        | -13.00         | -36.17         | 1.78 V                   | 49                         | 44.66                  | -93.83                         |
| 2                                                    | 3779.80            | -49.11        | -13.00         | -36.11         | 1.84 V                   | 33                         | 44.58                  | -93.69                         |

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.

|                 |                                                        |                                  |                                                |
|-----------------|--------------------------------------------------------|----------------------------------|------------------------------------------------|
| RF Mode         | LTE Band 2 (CA 2C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 18902 (1880.2MHz) +<br>CH 19100 (1900.0MHz) |
| Frequency Range | 1 GHz ~ 20 GHz                                         | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                              |
| Input Power     | 120 Vac, 60 Hz                                         | Environmental<br>Conditions      | 23°C, 67% RH                                   |
| Tested By       | Adair Peng                                             |                                  |                                                |

| 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                                                    | 3760.40            | -49.50        | -13.00         | -36.50         | 2.33 H                   | 190                        | 44.25                  | -93.75                         |
| 2                                                    | 3800.00            | -49.38        | -13.00         | -36.38         | 2.09 H                   | 184                        | 44.26                  | -93.64                         |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 3760.40            | -49.23        | -13.00         | -36.23         | 1.90 V                   | 42                         | 44.52                  | -93.75                         |
| 2                                                    | 3800.00            | -49.05        | -13.00         | -36.05         | 1.85 V                   | 37                         | 44.59                  | -93.64                         |

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.

### 7.6.2 LTE Band 5 (CA 5B)

|                 |                                                        |                                  |                                              |
|-----------------|--------------------------------------------------------|----------------------------------|----------------------------------------------|
| RF Mode         | LTE Band 5 (CA 5B)<br>Channel Bandwidth: 10MHz + 10MHz | Channel                          | CH 20450 (829 MHz) +<br>CH 20549 (838.9 MHz) |
| Frequency Range | 1 GHz ~ 18 GHz                                         | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                            |
| Input Power     | 120 Vac, 60 Hz                                         | Environmental<br>Conditions      | 23 °C, 67% RH                                |
| Tested By       | Adair Peng                                             |                                  |                                              |

| 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            | -51.84       | -13.00         | -38.84         | 1.46 H                   | 181                        | 50.28                  | -102.12                        |
| 2                                                    | 1677.80            | -51.80       | -13.00         | -38.80         | 1.50 H                   | 175                        | 50.33                  | -102.13                        |
| Antenna Polarity & Test Distance : Vertical 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            | -50.23       | -13.00         | -37.23         | 1.79 V                   | 133                        | 51.89                  | -102.12                        |
| 2                                                    | 1677.80            | -50.20       | -13.00         | -37.20         | 1.82 V                   | 128                        | 51.93                  | -102.13                        |

#### 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.

|                 |                                                        |                                  |                                                |
|-----------------|--------------------------------------------------------|----------------------------------|------------------------------------------------|
| RF Mode         | LTE Band 5 (CA 5B)<br>Channel Bandwidth: 10MHz + 10MHz | Channel                          | CH 20476 (831.6 MHz) +<br>CH 20575 (841.5 MHz) |
| Frequency Range | 1 GHz ~ 18 GHz                                         | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                              |
| Input Power     | 120 Vac, 60 Hz                                         | Environmental<br>Conditions      | 23 °C, 67% RH                                  |
| Tested By       | Adair Peng                                             |                                  |                                                |

| 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                                                    | 1663.20         | -51.84    | -13.00      | -38.84      | 1.42 H             | 166                  | 50.28            | -102.12                  |
| 2                                                    | 1683.00         | -51.82    | -13.00      | -38.82      | 1.49 H             | 159                  | 50.31            | -102.13                  |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 1663.20         | -50.01    | -13.00      | -37.01      | 1.88 V             | 150                  | 52.11            | -102.12                  |
| 2                                                    | 1683.00         | -49.98    | -13.00      | -36.98      | 1.91 V             | 148                  | 52.15            | -102.13                  |

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.



|                 |                                                        |                                  |                                              |
|-----------------|--------------------------------------------------------|----------------------------------|----------------------------------------------|
| RF Mode         | LTE Band 5 (CA 5B)<br>Channel Bandwidth: 10MHz + 10MHz | Channel                          | CH 20501 (834.1 MHz) +<br>CH 20600 (844 MHz) |
| Frequency Range | 1 GHz ~ 18 GHz                                         | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                            |
| Input Power     | 120 Vac, 60 Hz                                         | Environmental<br>Conditions      | 23 °C, 67% RH                                |
| Tested By       | Adair Peng                                             |                                  |                                              |

| 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                                                    | 1668.20            | -51.90       | -13.00         | -38.90         | 1.47 H                   | 175                        | 50.22                  | -102.12                        |
| 2                                                    | 1688.00            | -51.95       | -13.00         | -38.95         | 1.51 H                   | 171                        | 50.19                  | -102.14                        |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 1668.20            | -49.64       | -13.00         | -36.64         | 1.79 V                   | 142                        | 52.48                  | -102.12                        |
| 2                                                    | 1688.00            | -49.64       | -13.00         | -36.64         | 1.71 V                   | 133                        | 52.50                  | -102.14                        |

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.

### 7.6.3 LTE Band 7 (CA 7C)

|                 |                                                        |                                  |                                                |
|-----------------|--------------------------------------------------------|----------------------------------|------------------------------------------------|
| RF Mode         | LTE Band 7 (CA 7C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 20850 (2510 MHz) +<br>CH 21048 (2529.8 MHz) |
| Frequency Range | 1 GHz ~ 27 GHz                                         | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                              |
| Input Power     | 120 Vac, 60 Hz                                         | Environmental<br>Conditions      | 23 °C, 67% RH                                  |
| Tested By       | Adair Peng                                             |                                  |                                                |

| 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                                                    | 5020.00            | -46.46        | -25.00         | -21.46         | 1.65 H                   | 78                         | 43.41                  | -89.87                         |
| 2                                                    | 5059.60            | -46.21        | -25.00         | -21.21         | 1.69 H                   | 81                         | 43.42                  | -89.63                         |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 5020.00            | -46.12        | -25.00         | -21.12         | 1.42 V                   | 123                        | 43.75                  | -89.87                         |
| 2                                                    | 5059.60            | -45.85        | -25.00         | -20.85         | 1.45 V                   | 120                        | 43.78                  | -89.63                         |

#### 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.

|                 |                                                        |                                  |                                                  |
|-----------------|--------------------------------------------------------|----------------------------------|--------------------------------------------------|
| RF Mode         | LTE Band 7 (CA 7C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 21001 (2525.1 MHz) +<br>CH 21199 (2544.9 MHz) |
| Frequency Range | 1 GHz ~ 27 GHz                                         | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                                |
| Input Power     | 120 Vac, 60 Hz                                         | Environmental<br>Conditions      | 23 °C, 67% RH                                    |
| Tested By       | Adair Peng                                             |                                  |                                                  |

| 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                                                    | 5050.20            | -46.23        | -25.00         | -21.23         | 1.62 H                   | 88                         | 43.43                  | -89.66                         |
| 2                                                    | 5089.80            | -46.09        | -25.00         | -21.09         | 1.59 H                   | 79                         | 43.41                  | -89.50                         |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 5050.20            | -45.64        | -25.00         | -20.64         | 1.40 V                   | 129                        | 44.02                  | -89.66                         |
| 2                                                    | 5089.80            | -45.52        | -25.00         | -20.52         | 1.37 V                   | 118                        | 43.98                  | -89.50                         |

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.

|                 |                                                        |                                  |                                                |
|-----------------|--------------------------------------------------------|----------------------------------|------------------------------------------------|
| RF Mode         | LTE Band 7 (CA 7C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 21152 (2540.2 MHz) +<br>CH 21350 (2560 MHz) |
| Frequency Range | 1 GHz ~ 27 GHz                                         | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                              |
| Input Power     | 120 Vac, 60 Hz                                         | Environmental<br>Conditions      | 23 °C, 67% RH                                  |
| Tested By       | Adair Peng                                             |                                  |                                                |

| 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                                                    | 5080.40            | -46.23        | -25.00         | -21.23         | 1.66 H                   | 78                         | 43.31                  | -89.54                         |
| 2                                                    | 5120.00            | -46.07        | -25.00         | -21.07         | 1.61 H                   | 81                         | 43.33                  | -89.40                         |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 5080.40            | -45.72        | -25.00         | -20.72         | 1.50 V                   | 118                        | 43.82                  | -89.54                         |
| 2                                                    | 5120.00            | -45.57        | -25.00         | -20.57         | 1.51 V                   | 120                        | 43.83                  | -89.40                         |

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.

#### 7.6.4 LTE Band 12 (CA 12B)

|                 |                                                         |                                  |                                              |
|-----------------|---------------------------------------------------------|----------------------------------|----------------------------------------------|
| RF Mode         | LTE Band 12 (CA 12B)<br>Channel Bandwidth: 5MHz + 10MHz | Channel                          | CH 23038 (701.8 MHz) +<br>CH 23110 (709 MHz) |
| Frequency Range | 1 GHz ~ 18 GHz                                          | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                            |
| Input Power     | 120 Vac, 60 Hz                                          | Environmental<br>Conditions      | 23 °C, 67% RH                                |
| Tested By       | Adair Peng                                              |                                  |                                              |

| 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                                                    | 1403.60            | -54.50       | -13.00         | -41.50         | 2.52 H                   | 199                        | 47.69                  | -102.19                        |
| 2                                                    | 1418.00            | -54.53       | -13.00         | -41.53         | 2.43 H                   | 202                        | 47.71                  | -102.24                        |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 1403.60            | -54.31       | -13.00         | -41.31         | 1.22 V                   | 129                        | 47.88                  | -102.19                        |
| 2                                                    | 1418.00            | -54.33       | -13.00         | -41.33         | 1.20 V                   | 131                        | 47.91                  | -102.24                        |

#### 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.

|                 |                                                         |                                  |                                              |
|-----------------|---------------------------------------------------------|----------------------------------|----------------------------------------------|
| RF Mode         | LTE Band 12 (CA 12B)<br>Channel Bandwidth: 5MHz + 10MHz | Channel                          | CH 23048 (702.8 MHz) +<br>CH 23120 (710 MHz) |
| Frequency Range | 1 GHz ~ 18 GHz                                          | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                            |
| Input Power     | 120 Vac, 60 Hz                                          | Environmental<br>Conditions      | 23 °C, 67% RH                                |
| Tested By       | Adair Peng                                              |                                  |                                              |

| 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                                                    | 1405.60            | -54.55       | -13.00         | -41.55         | 2.42 H                   | 193                        | 47.65                  | -102.20                        |
| 2                                                    | 1420.00            | -54.62       | -13.00         | -41.62         | 2.39 H                   | 200                        | 47.63                  | -102.25                        |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 1405.60            | -54.39       | -13.00         | -41.39         | 1.30 V                   | 125                        | 47.81                  | -102.20                        |
| 2                                                    | 1420.00            | -54.42       | -13.00         | -41.42         | 1.28 V                   | 131                        | 47.83                  | -102.25                        |

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.

|                 |                                                         |                                  |                                              |
|-----------------|---------------------------------------------------------|----------------------------------|----------------------------------------------|
| RF Mode         | LTE Band 12 (CA 12B)<br>Channel Bandwidth: 5MHz + 10MHz | Channel                          | CH 23058 (703.8 MHz) +<br>CH 23130 (711 MHz) |
| Frequency Range | 1 GHz ~ 18 GHz                                          | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                            |
| Input Power     | 120 Vac, 60 Hz                                          | Environmental<br>Conditions      | 23 °C, 67% RH                                |
| Tested By       | Adair Peng                                              |                                  |                                              |

| 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                                                    | 1407.60            | -54.62       | -13.00         | -41.62         | 2.50 H                   | 201                        | 47.59                  | -102.21                        |
| 2                                                    | 1422.00            | -54.68       | -13.00         | -41.68         | 2.49 H                   | 206                        | 47.58                  | -102.26                        |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 1407.60            | -54.40       | -13.00         | -41.40         | 1.26 V                   | 129                        | 47.81                  | -102.21                        |
| 2                                                    | 1422.00            | -54.46       | -13.00         | -41.46         | 1.23 V                   | 124                        | 47.80                  | -102.26                        |

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.

### 7.6.5 LTE Band 41 (CA 41C)

|                 |                                                          |                                  |                                                |
|-----------------|----------------------------------------------------------|----------------------------------|------------------------------------------------|
| RF Mode         | LTE Band 41 (CA 41C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 39750 (2506 MHz) +<br>CH 39948 (2525.8 MHz) |
| Frequency Range | 1 GHz ~ 27 GHz                                           | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                              |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental<br>Conditions      | 23 °C, 67% RH                                  |
| Tested By       | Adair Peng                                               |                                  |                                                |

| 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                                                    | 5012.00            | -45.33        | -25.00         | -20.33         | 1.71 H                   | 125                        | 44.59                  | -89.92                         |
| 2                                                    | 5051.60            | -45.11        | -25.00         | -20.11         | 1.67 H                   | 129                        | 44.55                  | -89.66                         |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 5012.00            | -45.04        | -25.00         | -20.04         | 2.25 V                   | 303                        | 44.88                  | -89.92                         |
| 2                                                    | 5051.60            | -44.75        | -25.00         | -19.75         | 2.31 V                   | 301                        | 44.91                  | -89.66                         |

#### 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.



|                 |                                                          |                               |                                                  |
|-----------------|----------------------------------------------------------|-------------------------------|--------------------------------------------------|
| RF Mode         | LTE Band 41 (CA 41C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                       | CH 40521 (2583.1 MHz) +<br>CH 40719 (2602.9 MHz) |
| Frequency Range | 1 GHz ~ 27 GHz                                           | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS)                                |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental Conditions      | 23 °C, 67% RH                                    |
| Tested By       | Adair Peng                                               |                               |                                                  |

| 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                                                    | 5166.20         | -44.79     | -25.00      | -19.79      | 1.64 H             | 133                  | 44.61            | -89.40                   |
| 2                                                    | 5205.80         | -45.04     | -25.00      | -20.04      | 1.59 H             | 129                  | 44.58            | -89.62                   |
| 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                                                    | 5166.20         | -44.53     | -25.00      | -19.53      | 2.19 V             | 311                  | 44.87            | -89.40                   |
| 2                                                    | 5205.80         | -44.77     | -25.00      | -19.77      | 2.17 V             | 315                  | 44.85            | -89.62                   |

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.

|                 |                                                          |                                  |                                                |
|-----------------|----------------------------------------------------------|----------------------------------|------------------------------------------------|
| RF Mode         | LTE Band 41 (CA 41C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 41292 (2660.2 MHz) +<br>CH 41490 (2680 MHz) |
| Frequency Range | 1 GHz ~ 27 GHz                                           | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                              |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental<br>Conditions      | 23 °C, 67% RH                                  |
| Tested By       | Adair Peng                                               |                                  |                                                |

| 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                                                    | 5320.40            | -45.03        | -25.00         | -20.03         | 1.64 H                   | 135                        | 44.87                  | -89.90                         |
| 2                                                    | 5360.00            | -44.85        | -25.00         | -19.85         | 1.66 H                   | 128                        | 44.88                  | -89.73                         |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 5320.40            | -43.97        | -25.00         | -18.97         | 2.18 V                   | 300                        | 45.93                  | -89.90                         |
| 2                                                    | <b>5360.00</b>     | <b>-43.81</b> | <b>-25.00</b>  | <b>-18.81</b>  | <b>2.22 V</b>            | <b>303</b>                 | <b>45.92</b>           | <b>-89.73</b>                  |

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.

#### 7.6.6 LTE Band 42 (CA 42C)

|                 |                                                          |                                  |                                                |
|-----------------|----------------------------------------------------------|----------------------------------|------------------------------------------------|
| RF Mode         | LTE Band 42 (CA 42C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 42190 (3460 MHz) +<br>CH 42388 (3479.8 MHz) |
| Frequency Range | 1 GHz ~ 40 GHz                                           | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                              |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental<br>Conditions      | 23 °C, 67% RH                                  |
| Tested By       | Adair Peng                                               |                                  |                                                |

| 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                                                    | 6920.00            | -42.32        | -13.00         | -29.32         | 1.42 H                   | 298                        | 44.05                  | -86.37                         |
| 2                                                    | 6959.60            | -41.98        | -13.00         | -28.98         | 1.45 H                   | 293                        | 44.08                  | -86.06                         |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 6920.00            | -41.76        | -13.00         | -28.76         | 2.93 V                   | 252                        | 44.61                  | -86.37                         |
| 2                                                    | 6959.60            | -41.43        | -13.00         | -28.43         | 2.87 V                   | 249                        | 44.63                  | -86.06                         |

#### 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.

|                 |                                                          |                                  |                                                  |
|-----------------|----------------------------------------------------------|----------------------------------|--------------------------------------------------|
| RF Mode         | LTE Band 42 (CA 42C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 42490 (3490.0 MHz) +<br>CH 42689 (3509.9 MHz) |
| Frequency Range | 1 GHz ~ 40 GHz                                           | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                                |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental<br>Conditions      | 23 °C, 67% RH                                    |
| Tested By       | Adair Peng                                               |                                  |                                                  |

| 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                                                    | 6980.00            | -42.13        | -13.00         | -29.13         | 1.47 H                   | 291                        | 43.97                  | -86.10                         |
| 2                                                    | 7019.60            | -42.00        | -13.00         | -29.00         | 1.49 H                   | 299                        | 44.01                  | -86.01                         |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 6980.00            | -41.42        | -13.00         | -28.42         | 2.88 V                   | 263                        | 44.68                  | -86.10                         |
| 2                                                    | 7019.60            | -41.35        | -13.00         | -28.35         | 2.91 V                   | 252                        | 44.66                  | -86.01                         |

Remarks:

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

|                 |                                                          |                                  |                                                |
|-----------------|----------------------------------------------------------|----------------------------------|------------------------------------------------|
| RF Mode         | LTE Band 42 (CA 42C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 42791 (3520.1 MHz) +<br>CH 42990 (3540 MHz) |
| Frequency Range | 1 GHz ~ 40 GHz                                           | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                              |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental<br>Conditions      | 23 °C, 67% RH                                  |
| Tested By       | Adair Peng                                               |                                  |                                                |

| 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                                                    | 7040.40            | -41.97        | -13.00         | -28.97         | 1.52 H                   | 258                        | 43.91                  | -85.88                         |
| 2                                                    | 7080.00            | -41.66        | -13.00         | -28.66         | 1.49 H                   | 260                        | 43.88                  | -85.54                         |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 7040.40            | -41.30        | -13.00         | -28.30         | 2.82 V                   | 256                        | 44.58                  | -85.88                         |
| 2                                                    | 7080.00            | -40.99        | -13.00         | -27.99         | 2.90 V                   | 252                        | 44.55                  | -85.54                         |

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.

### 7.6.7 LTE Band 66 (CA 66B)

|                 |                                                          |                                  |                                                  |
|-----------------|----------------------------------------------------------|----------------------------------|--------------------------------------------------|
| RF Mode         | LTE Band 66 (CA 66B)<br>Channel Bandwidth: 10MHz + 10MHz | Channel                          | CH 132022 (1715 MHz) +<br>CH 132121 (1724.9 MHz) |
| Frequency Range | 1 GHz ~ 18 GHz                                           | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                                |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental<br>Conditions      | 23 °C, 67% RH                                    |
| Tested By       | Adair Peng                                               |                                  |                                                  |

| 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                                                    | 3430.00            | -51.86        | -13.00         | -38.86         | 2.73 H                   | 189                        | 43.37                  | -95.23                         |
| 2                                                    | 3449.80            | -51.53        | -13.00         | -38.53         | 2.67 H                   | 190                        | 43.46                  | -94.99                         |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 3430.00            | -50.57        | -13.00         | -37.57         | 1.68 V                   | 203                        | 44.66                  | -95.23                         |
| 2                                                    | 3449.80            | -50.96        | -13.00         | -37.96         | 1.77 V                   | 200                        | 44.03                  | -94.99                         |

#### Remarks:

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

|                 |                                                          |                                  |                                                  |
|-----------------|----------------------------------------------------------|----------------------------------|--------------------------------------------------|
| RF Mode         | LTE Band 66 (CA 66B)<br>Channel Bandwidth: 10MHz + 10MHz | Channel                          | CH 132373 (1750.1 MHz) +<br>CH 132472 (1760 MHz) |
| Frequency Range | 1 GHz ~ 18 GHz                                           | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                                |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental<br>Conditions      | 23 °C, 67% RH                                    |
| Tested By       | Adair Peng                                               |                                  |                                                  |

| 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                                                    | 3500.20            | -51.30        | -13.00         | -38.30         | 2.88 H                   | 198                        | 43.25                  | -94.55                         |
| 2                                                    | 3520.00            | -51.22        | -13.00         | -38.22         | 2.80 H                   | 189                        | 43.22                  | -94.44                         |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 3500.20            | -50.16        | -13.00         | -37.16         | 1.70 V                   | 200                        | 44.39                  | -94.55                         |
| 2                                                    | 3520.00            | -49.76        | -13.00         | -36.76         | 1.70 V                   | 210                        | 44.68                  | -94.44                         |

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.

|                 |                                                          |                                  |                                                  |
|-----------------|----------------------------------------------------------|----------------------------------|--------------------------------------------------|
| RF Mode         | LTE Band 66 (CA 66B)<br>Channel Bandwidth: 10MHz + 10MHz | Channel                          | CH 132523 (1765.1 MHz) +<br>CH 132622 (1775 MHz) |
| Frequency Range | 1 GHz ~ 18 GHz                                           | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                                |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental<br>Conditions      | 23 °C, 67% RH                                    |
| Tested By       | Adair Peng                                               |                                  |                                                  |

| 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                                                    | 3530.20            | -51.14        | -13.00         | -38.14         | 2.81 H                   | 199                        | 43.24                  | -94.38                         |
| 2                                                    | 3550.00            | -50.95        | -13.00         | -37.95         | 2.78 H                   | 195                        | 43.33                  | -94.28                         |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 3530.20            | -50.35        | -13.00         | -37.35         | 1.71 V                   | 213                        | 44.03                  | -94.38                         |
| 2                                                    | 3550.00            | -50.15        | -13.00         | -37.15         | 1.66 V                   | 209                        | 44.13                  | -94.28                         |

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.



### 7.6.8 LTE Band 66 (CA 66C)

|                 |                                                          |                                  |                                                  |
|-----------------|----------------------------------------------------------|----------------------------------|--------------------------------------------------|
| RF Mode         | LTE Band 66 (CA 66C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 132072 (1720 MHz) +<br>CH 132270 (1739.8 MHz) |
| Frequency Range | 1 GHz ~ 18 GHz                                           | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                                |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental<br>Conditions      | 23 °C, 67% RH                                    |
| Tested By       | Adair Peng                                               |                                  |                                                  |

| 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            | -51.44        | -13.00         | -38.44         | 2.71 H                   | 190                        | 43.66                  | -95.10                         |
| 2                                                    | 3479.60            | -51.12        | -13.00         | -38.12         | 2.69 H                   | 188                        | 43.61                  | -94.73                         |
| Antenna Polarity & Test Distance : Vertical 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            | -50.41        | -13.00         | -37.41         | 1.71 V                   | 205                        | 44.69                  | -95.10                         |
| 2                                                    | 3479.60            | -50.07        | -13.00         | -37.07         | 1.68 V                   | 203                        | 44.66                  | -94.73                         |

#### 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.

|                 |                                                          |                                  |                                                    |
|-----------------|----------------------------------------------------------|----------------------------------|----------------------------------------------------|
| RF Mode         | LTE Band 66 (CA 66C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 132323 (1745.1 MHz) +<br>CH 132521 (1764.9 MHz) |
| Frequency Range | 1 GHz ~ 18 GHz                                           | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                                  |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental<br>Conditions      | 23 °C, 67% RH                                      |
| Tested By       | Adair Peng                                               |                                  |                                                    |

| 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                                                    | 3490.20            | -51.08        | -13.00         | -38.08         | 2.82 H                   | 191                        | 43.55                  | -94.63                         |
| 2                                                    | 3529.80            | -50.79        | -13.00         | -37.79         | 2.79 H                   | 188                        | 43.59                  | -94.38                         |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 3490.20            | -49.74        | -13.00         | -36.74         | 1.71 V                   | 205                        | 44.89                  | -94.63                         |
| 2                                                    | 3529.80            | -49.56        | -13.00         | -36.56         | 1.69 V                   | 208                        | 44.82                  | -94.38                         |

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.

|                 |                                                          |                                  |                                                  |
|-----------------|----------------------------------------------------------|----------------------------------|--------------------------------------------------|
| RF Mode         | LTE Band 66 (CA 66C)<br>Channel Bandwidth: 20MHz + 20MHz | Channel                          | CH 132374 (1750.2 MHz) +<br>CH 132572 (1770 MHz) |
| Frequency Range | 1 GHz ~ 18 GHz                                           | Detector Function &<br>Bandwidth | 1 MHz/3 MHz (RMS)                                |
| Input Power     | 120 Vac, 60 Hz                                           | Environmental<br>Conditions      | 23 °C, 67% RH                                    |
| Tested By       | Adair Peng                                               |                                  |                                                  |

| 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                                                    | 3500.40            | -51.12        | -13.00         | -38.12         | 2.77 H                   | 200                        | 43.43                  | -94.55                         |
| 2                                                    | 3540.00            | -50.87        | -13.00         | -37.87         | 2.80 H                   | 197                        | 43.45                  | -94.32                         |
| Antenna Polarity & Test Distance : Vertical 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                                                    | 3500.40            | -50.24        | -13.00         | -37.24         | 1.73 V                   | 211                        | 44.31                  | -94.55                         |
| 2                                                    | 3540.00            | -50.04        | -13.00         | -37.04         | 1.65 V                   | 205                        | 44.28                  | -94.32                         |

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, 67% RH | Tested By: | Noah Chang |
|---------------------------|--------------|------------|------------|

### 7.7.1 LTE Band 2 (CA 2C)

#### Channel Bandwidth: 20 MHz+20 MHz

| Frequency Stability Versus Voltage |                                             |                       |                 |                       |
|------------------------------------|---------------------------------------------|-----------------------|-----------------|-----------------------|
| Voltage (Vdc)                      | CH 18801 (1870.1MHz) + CH 18999 (1889.9MHz) |                       |                 |                       |
|                                    | Frequency (MHz)                             | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.23                               | 1870.099996                                 | -0.0021               | 1889.900005     | 0.0026                |
| 3.80                               | 1870.100001                                 | 0.0005                | 1889.900003     | 0.0016                |
| 4.37                               | 1870.099998                                 | -0.0011               | 1889.899996     | -0.0021               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

| Frequency Stability Versus Temperature |                                             |                       |                 |                       |
|----------------------------------------|---------------------------------------------|-----------------------|-----------------|-----------------------|
| Temperature (°C)                       | CH 18801 (1870.1MHz) + CH 18999 (1889.9MHz) |                       |                 |                       |
|                                        | Frequency (MHz)                             | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30                                    | 1870.099998                                 | -0.0011               | 1889.900004     | 0.0021                |
| -20                                    | 1870.100003                                 | 0.0016                | 1889.899997     | -0.0016               |
| -10                                    | 1870.100002                                 | 0.0011                | 1889.900004     | 0.0021                |
| 0                                      | 1870.099996                                 | -0.0021               | 1889.899996     | -0.0021               |
| 10                                     | 1870.099995                                 | -0.0027               | 1889.900005     | 0.0026                |
| 20                                     | 1870.100004                                 | 0.0021                | 1889.900003     | 0.0016                |
| 30                                     | 1870.099997                                 | -0.0016               | 1889.899995     | -0.0026               |
| 40                                     | 1870.100001                                 | 0.0005                | 1889.899996     | -0.0021               |
| 50                                     | 1870.100001                                 | 0.0005                | 1889.900003     | 0.0016                |
| 60                                     | 1870.100002                                 | 0.0011                | 1889.900005     | 0.0026                |
| 70                                     | 1870.100002                                 | 0.0011                | 1889.900005     | 0.0026                |
| 75                                     | 1870.099998                                 | -0.0011               | 1889.899995     | -0.0026               |

## 7.7.2 LTE Band 5 (CA 5B)

### Channel Bandwidth: 10 MHz+10 MHz

| Frequency Stability Versus Voltage |                                             |                       |                 |                       |
|------------------------------------|---------------------------------------------|-----------------------|-----------------|-----------------------|
| Voltage (Vdc)                      | CH 20476 (831.6 MHz) + CH 20575 (841.5 MHz) |                       |                 |                       |
|                                    | Frequency (MHz)                             | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.23                               | 831.599998                                  | -0.0024               | 841.500003      | 0.0036                |
| 3.80                               | 831.599999                                  | -0.0012               | 841.500002      | 0.0024                |
| 4.37                               | 831.599996                                  | -0.0048               | 841.500003      | 0.0036                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

| Frequency Stability Versus Temperature |                                             |                       |                 |                       |
|----------------------------------------|---------------------------------------------|-----------------------|-----------------|-----------------------|
| Temperature (°C)                       | CH 20476 (831.6 MHz) + CH 20575 (841.5 MHz) |                       |                 |                       |
|                                        | Frequency (MHz)                             | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30                                    | 831.599999                                  | -0.0012               | 841.500002      | 0.0024                |
| -20                                    | 831.599999                                  | -0.0012               | 841.499996      | -0.0048               |
| -10                                    | 831.600005                                  | 0.0060                | 841.500003      | 0.0036                |
| 0                                      | 831.599995                                  | -0.0060               | 841.499995      | -0.0059               |
| 10                                     | 831.599999                                  | -0.0012               | 841.500003      | 0.0036                |
| 20                                     | 831.599998                                  | -0.0024               | 841.500003      | 0.0036                |
| 30                                     | 831.599998                                  | -0.0024               | 841.500001      | 0.0012                |
| 40                                     | 831.599999                                  | -0.0012               | 841.499996      | -0.0048               |
| 50                                     | 831.600003                                  | 0.0036                | 841.499996      | -0.0048               |
| 60                                     | 831.599998                                  | -0.0024               | 841.500004      | 0.0048                |
| 70                                     | 831.599996                                  | -0.0048               | 841.499999      | -0.0012               |
| 75                                     | 831.599996                                  | -0.0048               | 841.499998      | -0.0024               |

### 7.7.3 LTE Band 7 (CA 7C)

#### Channel Bandwidth: 20 MHz+20 MHz

| Frequency Stability Versus Voltage |                                               |                       |                 |                       |
|------------------------------------|-----------------------------------------------|-----------------------|-----------------|-----------------------|
| Voltage (Vdc)                      | CH 21001 (2525.1 MHz) + CH 21199 (2544.9 MHz) |                       |                 |                       |
|                                    | Frequency (MHz)                               | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.23                               | 2525.099998                                   | -0.0008               | 2544.899997     | -0.0012               |
| 3.80                               | 2525.099996                                   | -0.0016               | 2544.899996     | -0.0016               |
| 4.37                               | 2525.100002                                   | 0.0008                | 2544.899998     | -0.0008               |

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

| Frequency Stability Versus Temperature |                                               |                       |                 |                       |
|----------------------------------------|-----------------------------------------------|-----------------------|-----------------|-----------------------|
| Temperature (°C)                       | CH 21001 (2525.1 MHz) + CH 21199 (2544.9 MHz) |                       |                 |                       |
|                                        | Frequency (MHz)                               | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30                                    | 2525.099996                                   | -0.0016               | 2544.900003     | 0.0012                |
| -20                                    | 2525.099999                                   | -0.0004               | 2544.899999     | -0.0004               |
| -10                                    | 2525.100004                                   | 0.0016                | 2544.900002     | 0.0008                |
| 0                                      | 2525.100004                                   | 0.0016                | 2544.899997     | -0.0012               |
| 10                                     | 2525.099995                                   | -0.0020               | 2544.900002     | 0.0008                |
| 20                                     | 2525.100005                                   | 0.0020                | 2544.899999     | -0.0004               |
| 30                                     | 2525.100005                                   | 0.0020                | 2544.900003     | 0.0012                |
| 40                                     | 2525.100002                                   | 0.0008                | 2544.899995     | -0.0020               |
| 50                                     | 2525.100005                                   | 0.0020                | 2544.899999     | -0.0004               |
| 60                                     | 2525.099996                                   | -0.0016               | 2544.900001     | 0.0004                |
| 70                                     | 2525.099998                                   | -0.0008               | 2544.900005     | 0.0020                |
| 75                                     | 2525.099995                                   | -0.0020               | 2544.899996     | -0.0016               |

#### 7.7.4 LTE Band 12 (CA 12B)

##### Channel Bandwidth: 5 MHz+10 MHz

| Frequency Stability Versus Voltage |                                           |                       |                 |                       |
|------------------------------------|-------------------------------------------|-----------------------|-----------------|-----------------------|
| Voltage (Vdc)                      | CH 23048 (702.8 MHz) + CH 23120 (710 MHz) |                       |                 |                       |
|                                    | Frequency (MHz)                           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.23                               | 702.800001                                | 0.0014                | 710.000002      | 0.0028                |
| 3.80                               | 702.799997                                | -0.0043               | 709.999995      | -0.0070               |
| 4.37                               | 702.800002                                | 0.0028                | 710.000001      | 0.0014                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

| Frequency Stability Versus Temperature |                                           |                       |                 |                       |
|----------------------------------------|-------------------------------------------|-----------------------|-----------------|-----------------------|
| Temperature (°C)                       | CH 23048 (702.8 MHz) + CH 23120 (710 MHz) |                       |                 |                       |
|                                        | Frequency (MHz)                           | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30                                    | 702.799996                                | -0.0057               | 710.000005      | 0.0070                |
| -20                                    | 702.799999                                | -0.0014               | 709.999999      | -0.0014               |
| -10                                    | 702.800005                                | 0.0071                | 709.999998      | -0.0028               |
| 0                                      | 702.800005                                | 0.0071                | 709.999997      | -0.0042               |
| 10                                     | 702.799998                                | -0.0028               | 710.000003      | 0.0042                |
| 20                                     | 702.799998                                | -0.0028               | 709.999999      | -0.0014               |
| 30                                     | 702.800004                                | 0.0057                | 709.999995      | -0.0070               |
| 40                                     | 702.800002                                | 0.0028                | 710.000003      | 0.0042                |
| 50                                     | 702.799997                                | -0.0043               | 710.000001      | 0.0014                |
| 60                                     | 702.800005                                | 0.0071                | 709.999998      | -0.0028               |
| 70                                     | 702.799996                                | -0.0057               | 709.999997      | -0.0042               |
| 75                                     | 702.800001                                | 0.0014                | 709.999995      | -0.0070               |

### 7.7.5 LTE Band 41 (CA 41C)

#### Channel Bandwidth: 20 MHz+20 MHz

| Frequency Stability Versus Voltage |                                             |                       |                 |                       |
|------------------------------------|---------------------------------------------|-----------------------|-----------------|-----------------------|
| Voltage (Vdc)                      | CH 40521 (2583.1MHz) + CH 40719 (2602.9MHz) |                       |                 |                       |
|                                    | Frequency (MHz)                             | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.23                               | 2583.100004                                 | 0.0015                | 2602.899995     | -0.0019               |
| 3.80                               | 2583.099999                                 | -0.0004               | 2602.900005     | 0.0019                |
| 4.37                               | 2583.099995                                 | -0.0019               | 2602.900001     | 0.0004                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

| Frequency Stability Versus Temperature |                                             |                       |                 |                       |
|----------------------------------------|---------------------------------------------|-----------------------|-----------------|-----------------------|
| Temperature (°C)                       | CH 40521 (2583.1MHz) + CH 40719 (2602.9MHz) |                       |                 |                       |
|                                        | Frequency (MHz)                             | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30                                    | 2583.100003                                 | 0.0012                | 2602.899998     | -0.0008               |
| -20                                    | 2583.100003                                 | 0.0012                | 2602.899997     | -0.0012               |
| -10                                    | 2583.100005                                 | 0.0019                | 2602.900001     | 0.0004                |
| 0                                      | 2583.100002                                 | 0.0008                | 2602.899998     | -0.0008               |
| 10                                     | 2583.099995                                 | -0.0019               | 2602.900001     | 0.0004                |
| 20                                     | 2583.099995                                 | -0.0019               | 2602.900004     | 0.0015                |
| 30                                     | 2583.099995                                 | -0.0019               | 2602.899998     | -0.0008               |
| 40                                     | 2583.099997                                 | -0.0012               | 2602.899999     | -0.0004               |
| 50                                     | 2583.099996                                 | -0.0015               | 2602.900005     | 0.0019                |
| 60                                     | 2583.100001                                 | 0.0004                | 2602.900002     | 0.0008                |
| 70                                     | 2583.100002                                 | 0.0008                | 2602.899995     | -0.0019               |
| 75                                     | 2583.099998                                 | -0.0008               | 2602.900003     | 0.0012                |



### 7.7.6 LTE Band 42 (CA 42C)

#### Channel Bandwidth: 20 MHz+20 MHz

| Frequency Stability Versus Voltage |                                               |                       |                 |                       |
|------------------------------------|-----------------------------------------------|-----------------------|-----------------|-----------------------|
| Voltage (Vdc)                      | CH 42490 (3490.0 MHz) + CH 42689 (3509.9 MHz) |                       |                 |                       |
|                                    | Frequency (MHz)                               | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.23                               | 3490.100004                                   | 0.001                 | 3509.900002     | 0.001                 |
| 3.80                               | 3490.099997                                   | -0.001                | 3509.899997     | -0.001                |
| 4.37                               | 3490.100003                                   | 0.001                 | 3509.900003     | 0.001                 |

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

| Frequency Stability Versus Temperature |                                               |                       |                 |                       |
|----------------------------------------|-----------------------------------------------|-----------------------|-----------------|-----------------------|
| Temperature (°C)                       | CH 42490 (3490.0 MHz) + CH 42689 (3509.9 MHz) |                       |                 |                       |
|                                        | Frequency (MHz)                               | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30                                    | 3490.099995                                   | -0.001                | 3509.899999     | 0.000                 |
| -20                                    | 3490.100001                                   | 0.000                 | 3509.900003     | 0.001                 |
| -10                                    | 3490.099997                                   | -0.001                | 3509.900002     | 0.001                 |
| 0                                      | 3490.100002                                   | 0.001                 | 3509.900004     | 0.001                 |
| 10                                     | 3490.100004                                   | 0.001                 | 3509.900002     | 0.001                 |
| 20                                     | 3490.099995                                   | -0.001                | 3509.899999     | 0.000                 |
| 30                                     | 3490.100004                                   | 0.001                 | 3509.900001     | 0.000                 |
| 40                                     | 3490.100002                                   | 0.001                 | 3509.899999     | 0.000                 |
| 50                                     | 3490.099995                                   | -0.001                | 3509.900005     | 0.001                 |
| 60                                     | 3490.099995                                   | -0.001                | 3509.900004     | 0.001                 |
| 70                                     | 3490.099998                                   | -0.001                | 3509.899995     | -0.001                |
| 75                                     | 3490.099999                                   | 0.000                 | 3509.899999     | 0.000                 |

### 7.7.7 LTE Band 66 (CA 66B)

#### Channel Bandwidth: 10 MHz+10 MHz

| Frequency Stability Versus Voltage |                                               |                       |                 |                       |
|------------------------------------|-----------------------------------------------|-----------------------|-----------------|-----------------------|
| Voltage (Vdc)                      | CH 132373 (1750.1 MHz) + CH 132472 (1760 MHz) |                       |                 |                       |
|                                    | Frequency (MHz)                               | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.23                               | 1750.099999                                   | -0.001                | 1759.999998     | -0.001                |
| 3.80                               | 1750.100004                                   | 0.002                 | 1760.000004     | 0.002                 |
| 4.37                               | 1750.100003                                   | 0.002                 | 1760.000005     | 0.003                 |

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

| Frequency Stability Versus Temperature |                                               |                       |                 |                       |
|----------------------------------------|-----------------------------------------------|-----------------------|-----------------|-----------------------|
| Temperature (°C)                       | CH 132373 (1750.1 MHz) + CH 132472 (1760 MHz) |                       |                 |                       |
|                                        | Frequency (MHz)                               | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30                                    | 1750.100005                                   | 0.003                 | 1759.999999     | -0.001                |
| -20                                    | 1750.100003                                   | 0.002                 | 1760.000005     | 0.003                 |
| -10                                    | 1750.099995                                   | -0.003                | 1760.000002     | 0.001                 |
| 0                                      | 1750.099998                                   | -0.001                | 1760.000002     | 0.001                 |
| 10                                     | 1750.100003                                   | 0.002                 | 1759.999999     | -0.001                |
| 20                                     | 1750.099995                                   | -0.003                | 1759.999999     | -0.001                |
| 30                                     | 1750.100004                                   | 0.002                 | 1760.000002     | 0.001                 |
| 40                                     | 1750.100002                                   | 0.001                 | 1760.000004     | 0.002                 |
| 50                                     | 1750.099998                                   | -0.001                | 1760.000002     | 0.001                 |
| 60                                     | 1750.099996                                   | -0.002                | 1760.000004     | 0.002                 |
| 70                                     | 1750.099995                                   | -0.003                | 1760.000004     | 0.002                 |
| 75                                     | 1750.100001                                   | 0.001                 | 1760.000001     | 0.001                 |

### 7.7.8 LTE Band 66 (CA 66C)

#### Channel Bandwidth: 20 MHz+20 MHz

| Frequency Stability Versus Voltage |                                                 |                       |                 |                       |
|------------------------------------|-------------------------------------------------|-----------------------|-----------------|-----------------------|
| Voltage (Vdc)                      | CH 132323 (1745.1 MHz) + CH 132521 (1764.9 MHz) |                       |                 |                       |
|                                    | Frequency (MHz)                                 | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.23                               | 1745.100003                                     | 0.0017                | 1764.900005     | 0.0028                |
| 3.80                               | 1745.100005                                     | 0.0029                | 1764.899998     | -0.0011               |
| 4.37                               | 1745.100005                                     | 0.0029                | 1764.900004     | 0.0023                |

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

| Frequency Stability Versus Temperature |                                                 |                       |                 |                       |
|----------------------------------------|-------------------------------------------------|-----------------------|-----------------|-----------------------|
| Temperature (°C)                       | CH 132323 (1745.1 MHz) + CH 132521 (1764.9 MHz) |                       |                 |                       |
|                                        | Frequency (MHz)                                 | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30                                    | 1745.100005                                     | 0.0029                | 1764.900002     | 0.0011                |
| -20                                    | 1745.099995                                     | -0.0029               | 1764.900001     | 0.0006                |
| -10                                    | 1745.099995                                     | -0.0029               | 1764.899995     | -0.0028               |
| 0                                      | 1745.100004                                     | 0.0023                | 1764.900005     | 0.0028                |
| 10                                     | 1745.099998                                     | -0.0011               | 1764.899999     | -0.0006               |
| 20                                     | 1745.100003                                     | 0.0017                | 1764.899997     | -0.0017               |
| 30                                     | 1745.099995                                     | -0.0029               | 1764.900005     | 0.0028                |
| 40                                     | 1745.099997                                     | -0.0017               | 1764.900004     | 0.0023                |
| 50                                     | 1745.099999                                     | -0.0006               | 1764.899996     | -0.0023               |
| 60                                     | 1745.100001                                     | 0.0006                | 1764.899995     | -0.0028               |
| 70                                     | 1745.100003                                     | 0.0017                | 1764.900003     | 0.0017                |
| 75                                     | 1745.100001                                     | 0.0006                | 1764.899995     | -0.0028               |

## 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:

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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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