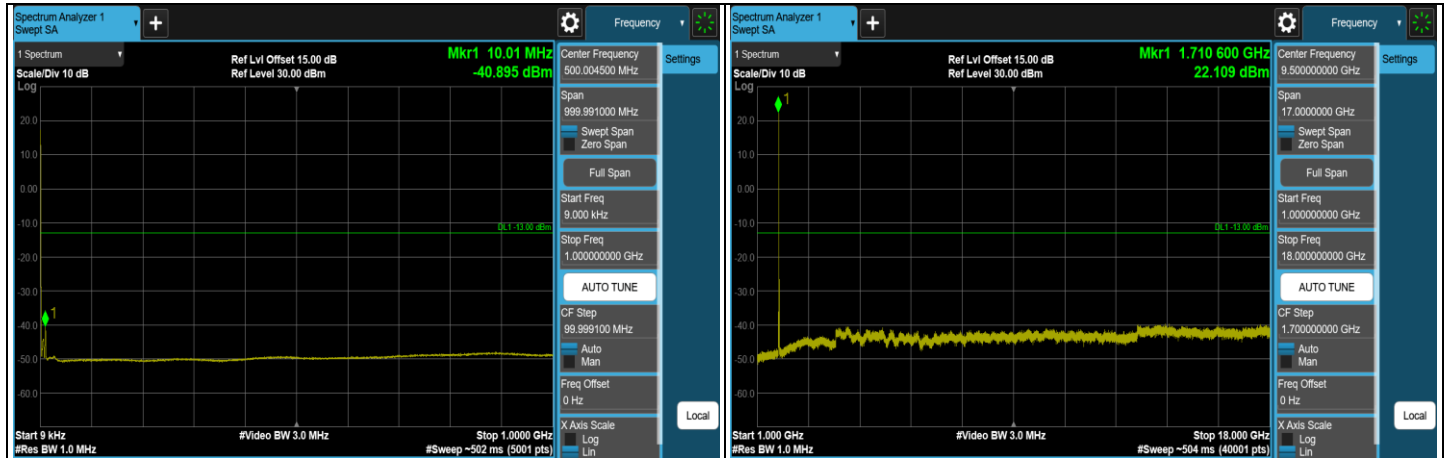
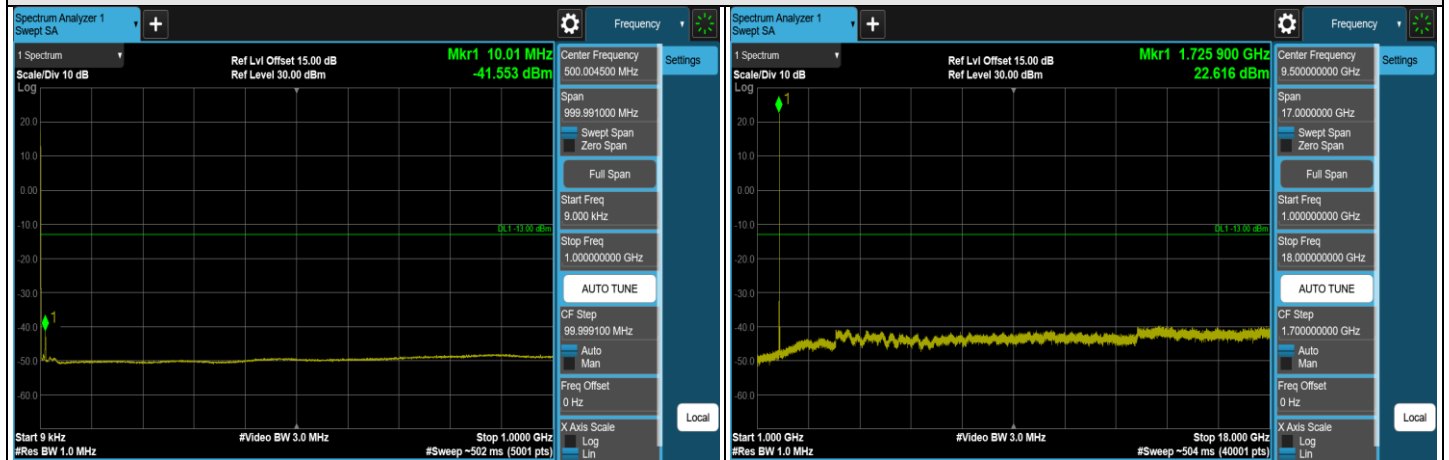


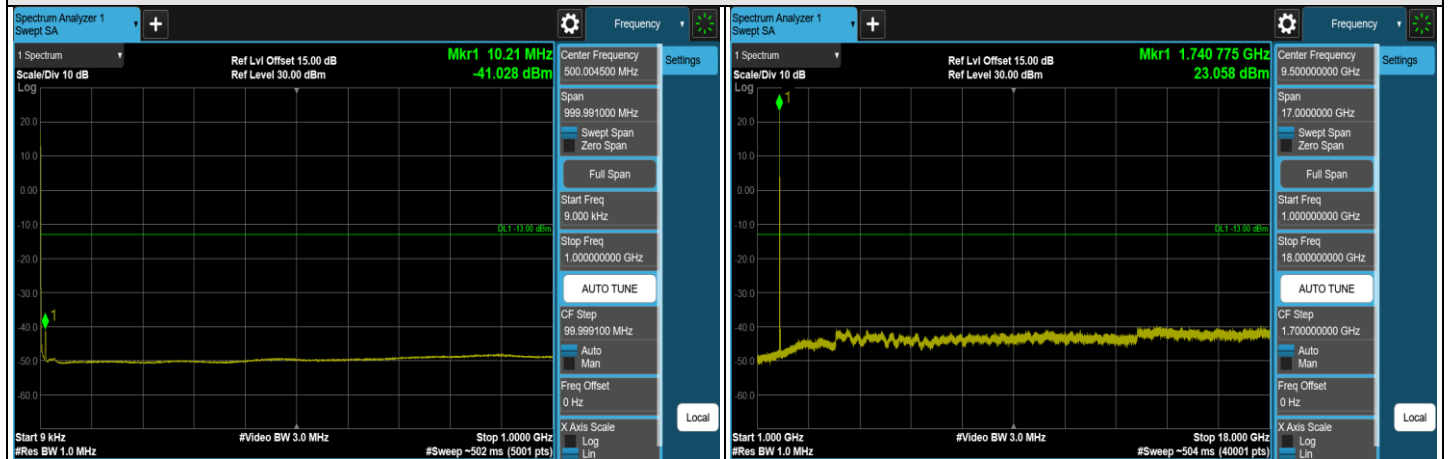
LTE Band 4, Channel Bandwidth: 15 MHz



CH 2025 (1717.5MHz)



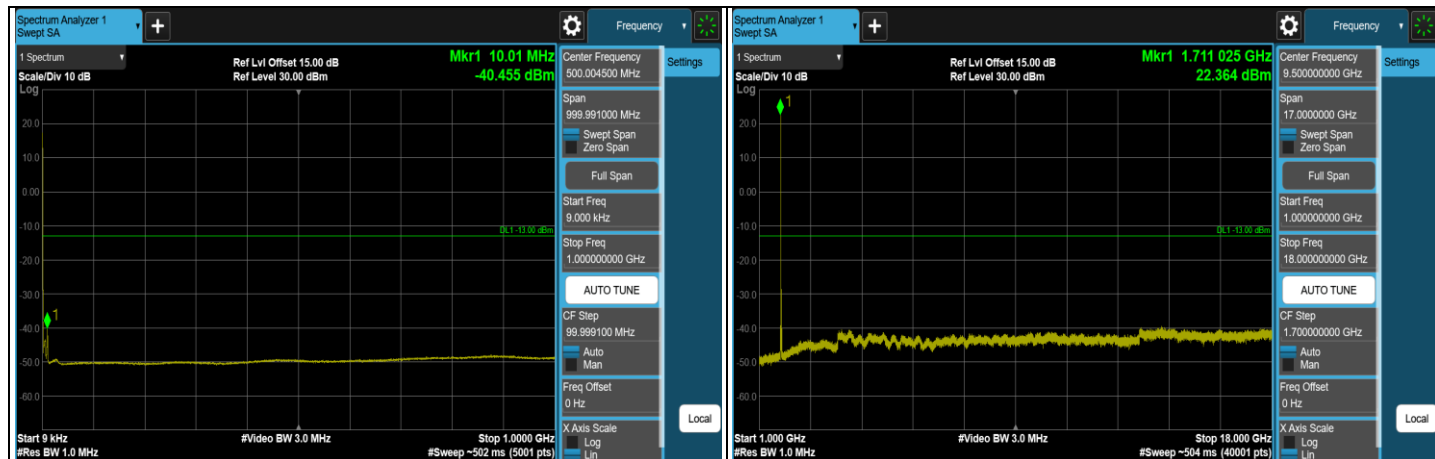
CH 20175 (1732.5MHz)



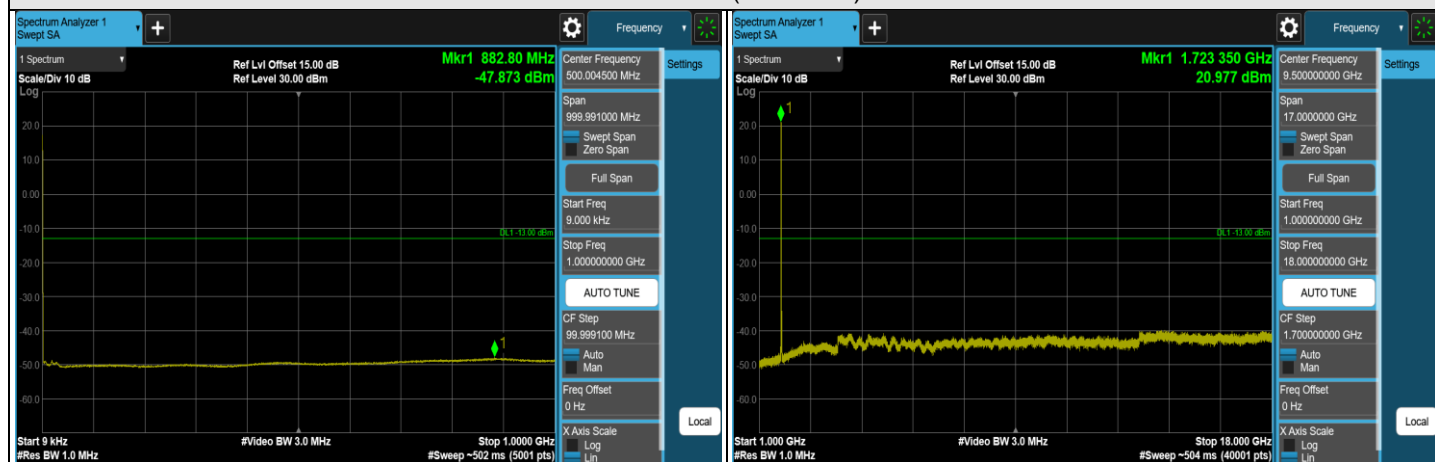
CH 20325 (1747.5MHz)

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

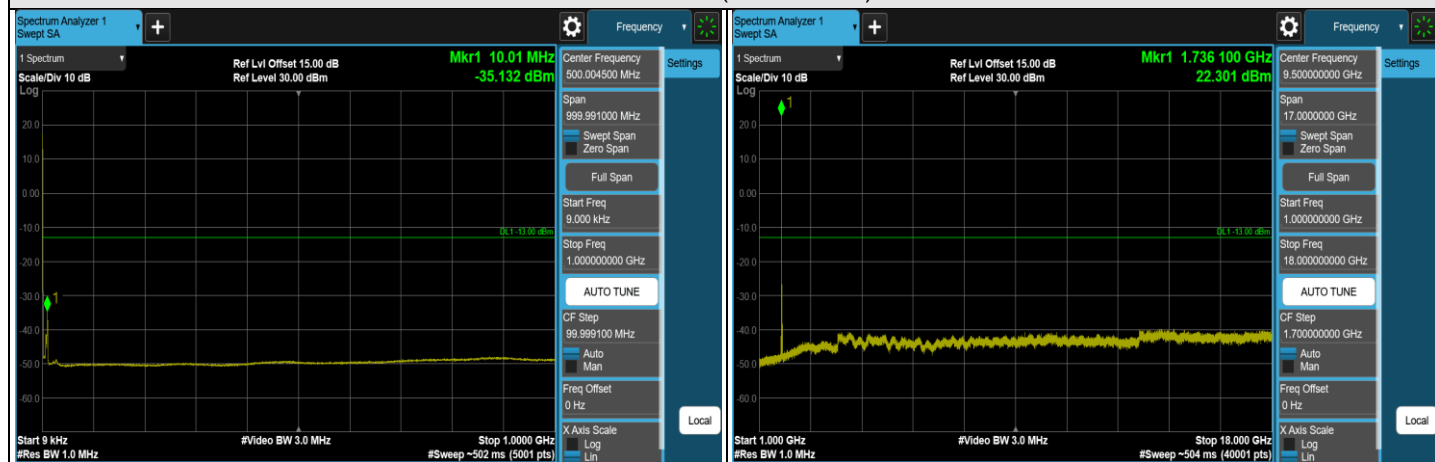
LTE Band 4, Channel Bandwidth: 20 MHz



CH 20050 (1720MHz)

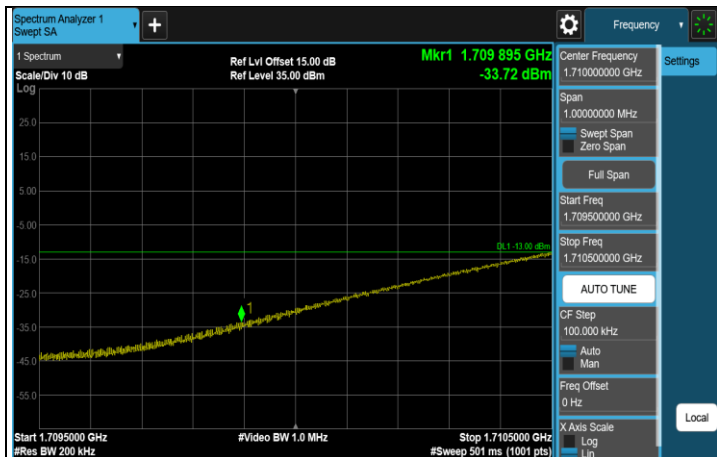


CH 20175 (1732.5MHz)

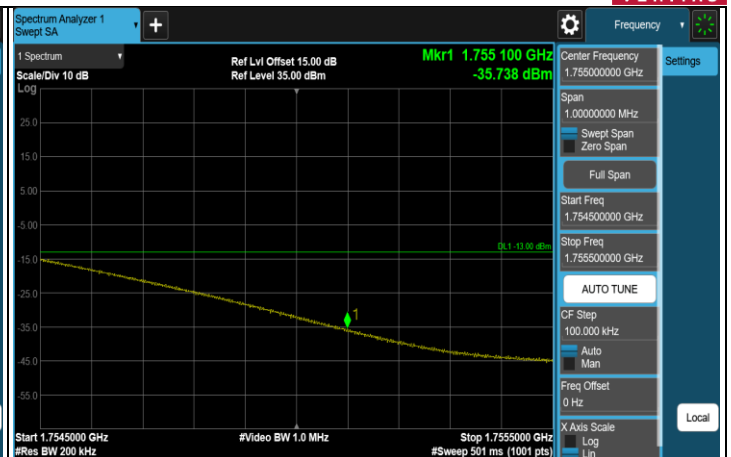


CH 20300 (1745MHz)

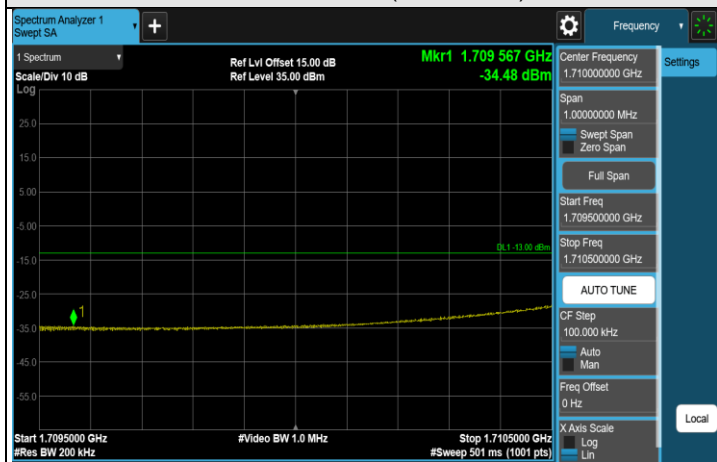
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



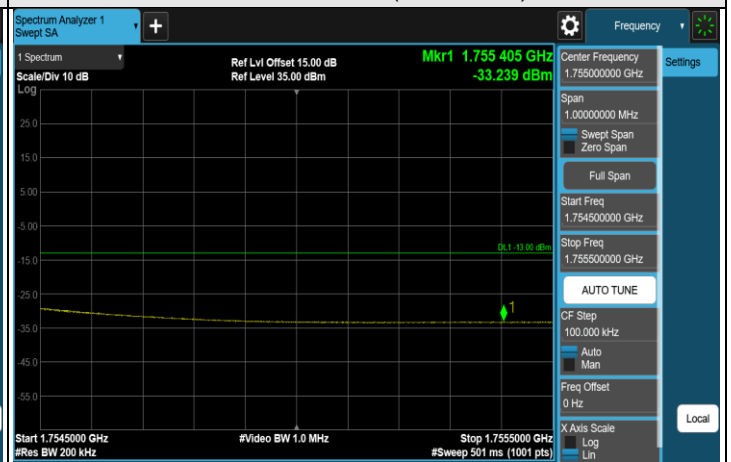
1RB CH 20050 (1720 MHz)



1RB CH 20300 (1745 MHz)



FULL CH 20050 (1720 MHz)

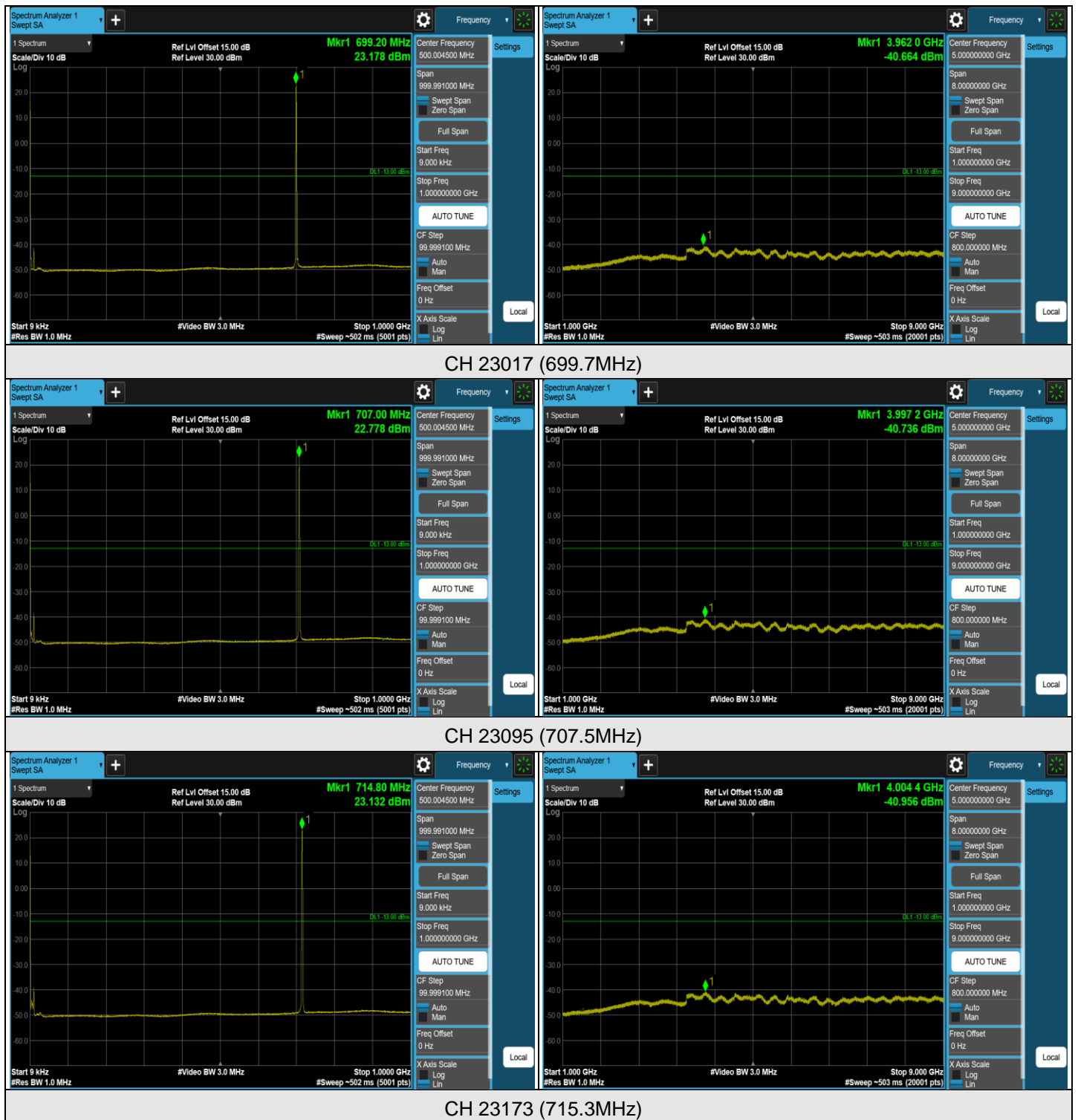


FULL CH 20300 (1745 MHz)

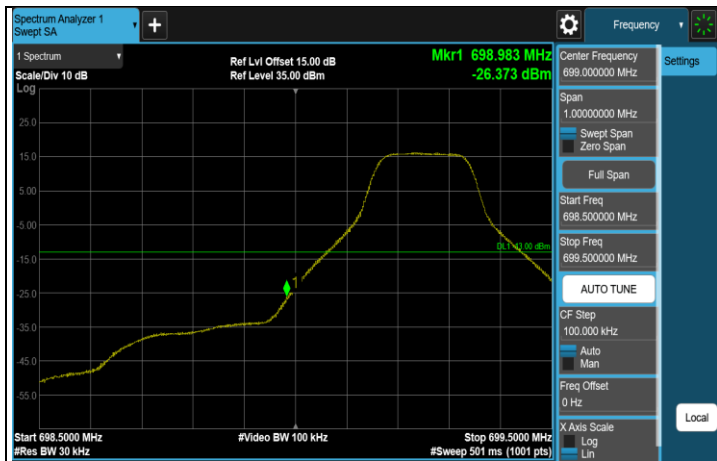


7.5.3 LTE Band 12

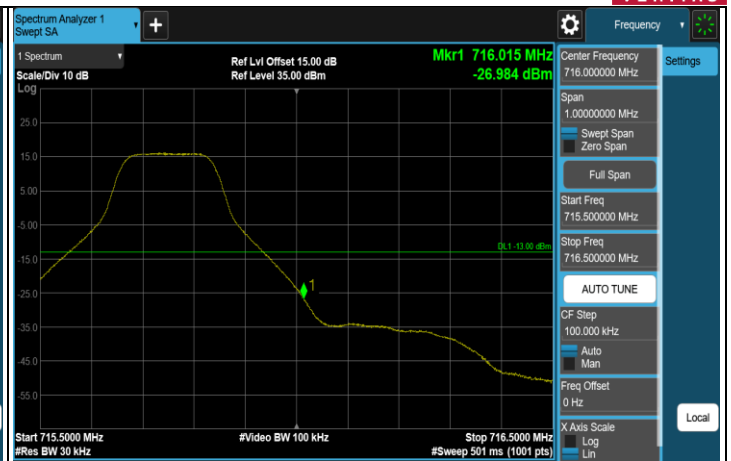
LTE Band 12, Channel Bandwidth: 1.4 MHz



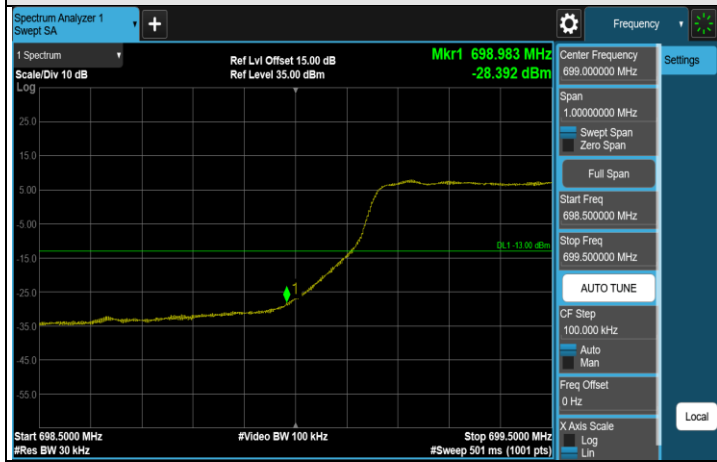
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



1RB CH 23017 (699.7 MHz)



1RB CH 23173 (715.3 MHz)



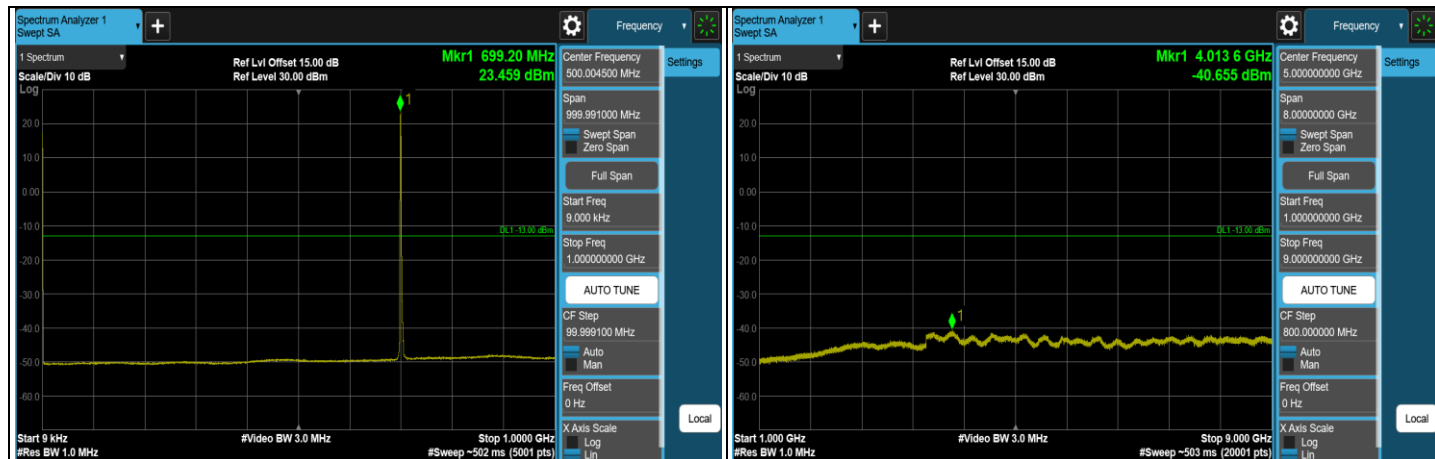
FULL CH 23017 (699.7 MHz)



FULL CH 23173 (715.3 MHz)



LTE Band 12, Channel Bandwidth: 3 MHz



CH 23025 (700.5MHz)

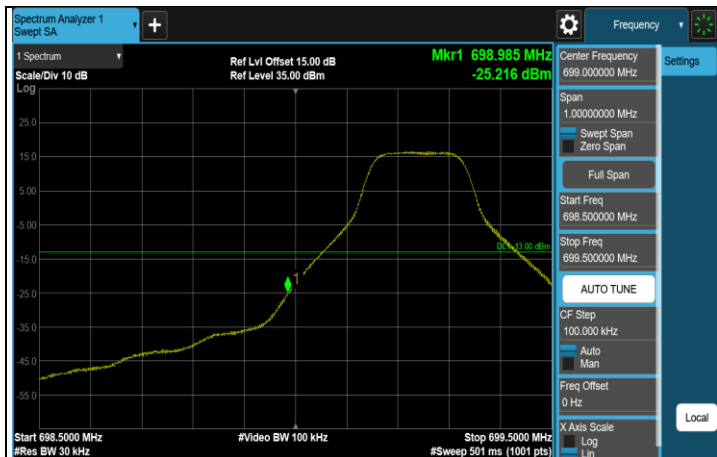


CH 23095 (707.5MHz)

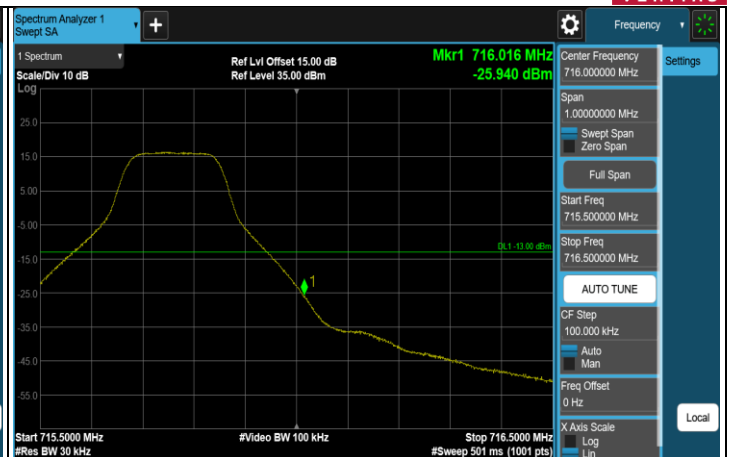


CH 23165 (714.5MHz)

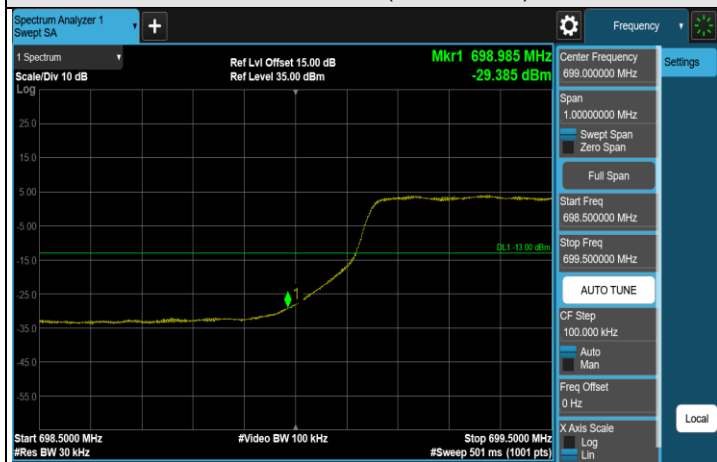
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



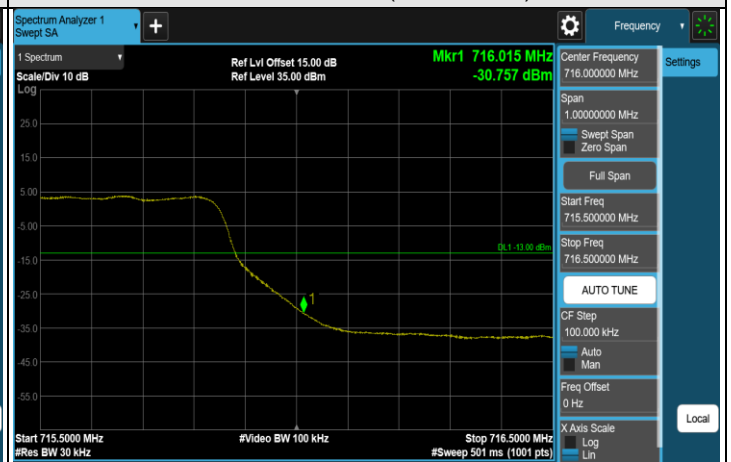
1RB CH 23025 (700.5 MHz)



1RB CH 23165 (714.5 MHz)

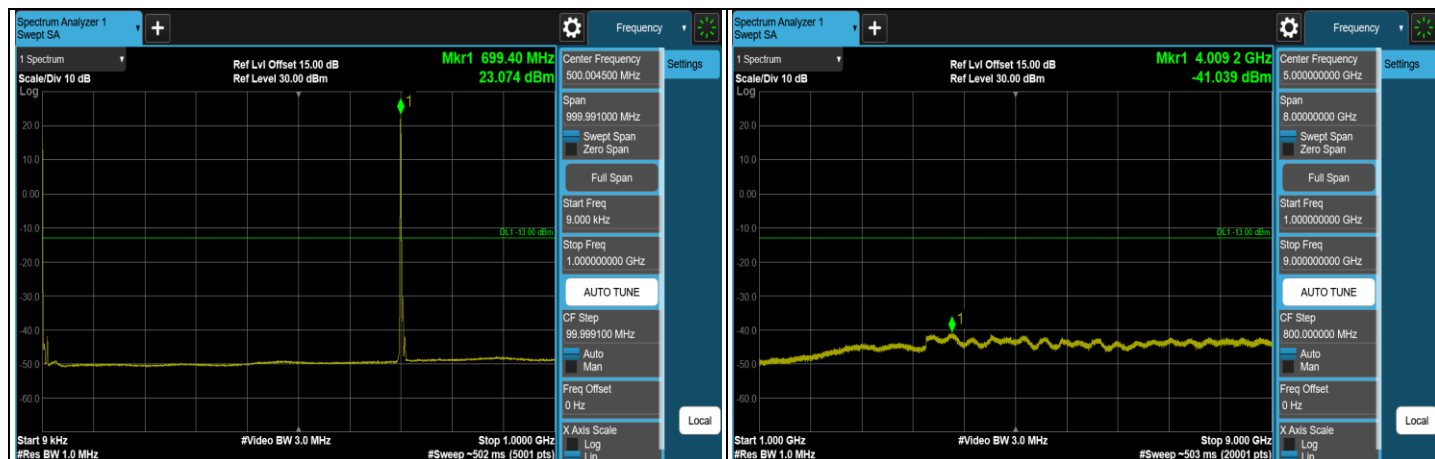


FULL CH 23025 (700.5 MHz)

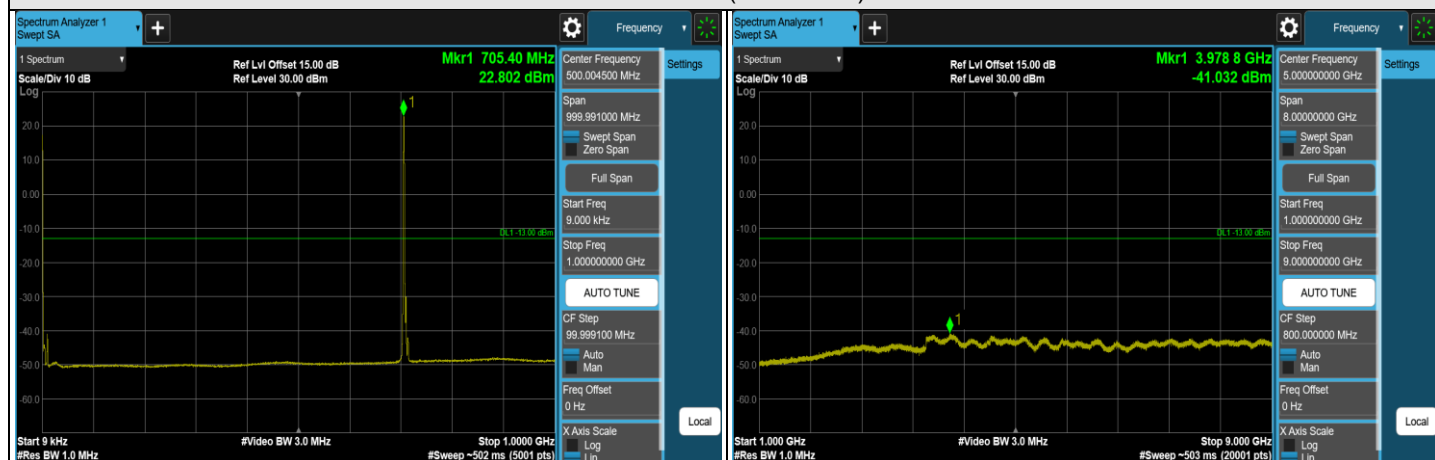


FULL CH 23165 (714.5 MHz)

LTE Band 12, Channel Bandwidth: 5 MHz



CH 23035 (701.5MHz)

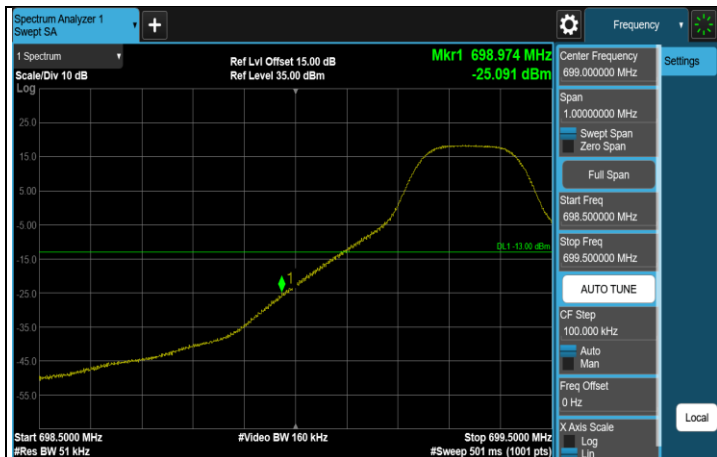


CH 23095 (707.5MHz)

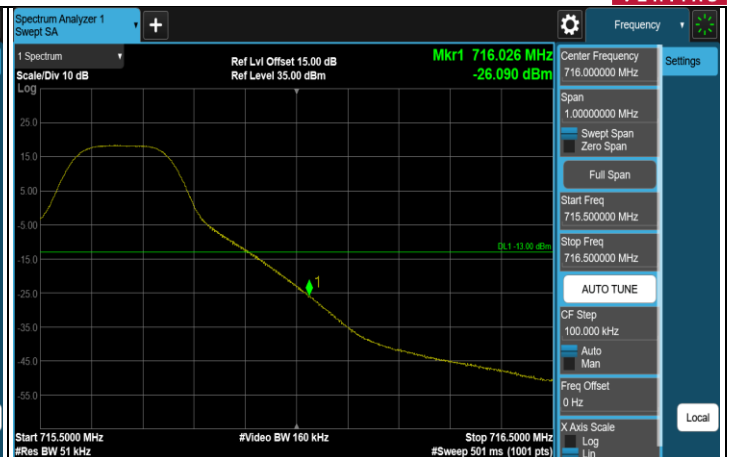


CH 23155 (713.5MHz)

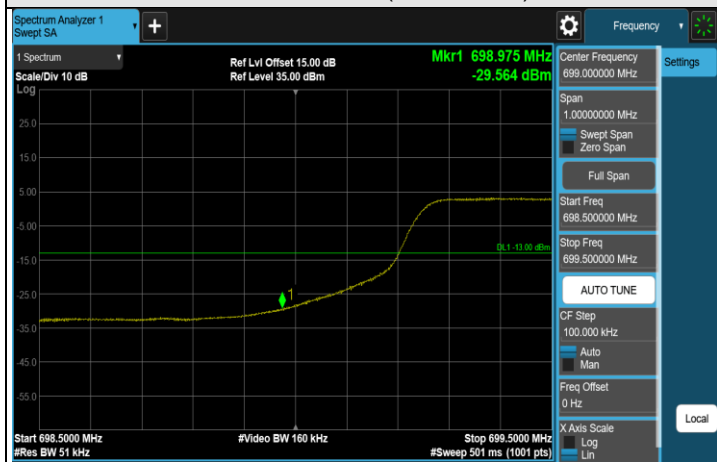
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



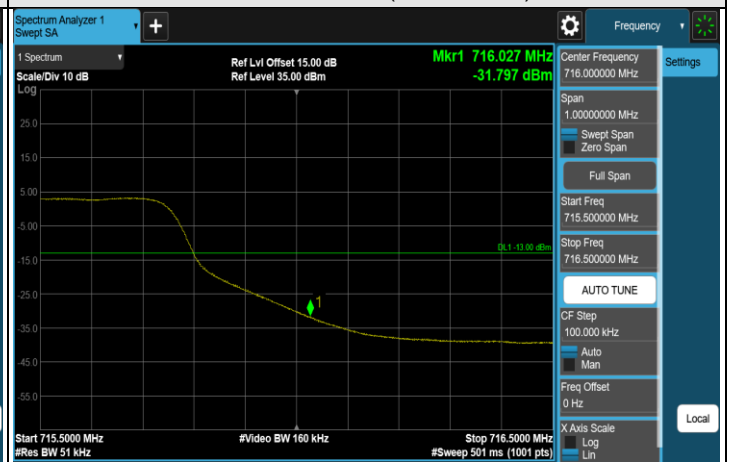
1RB CH 23035 (701.5 MHz)



1RB CH 23155 (713.5 MHz)



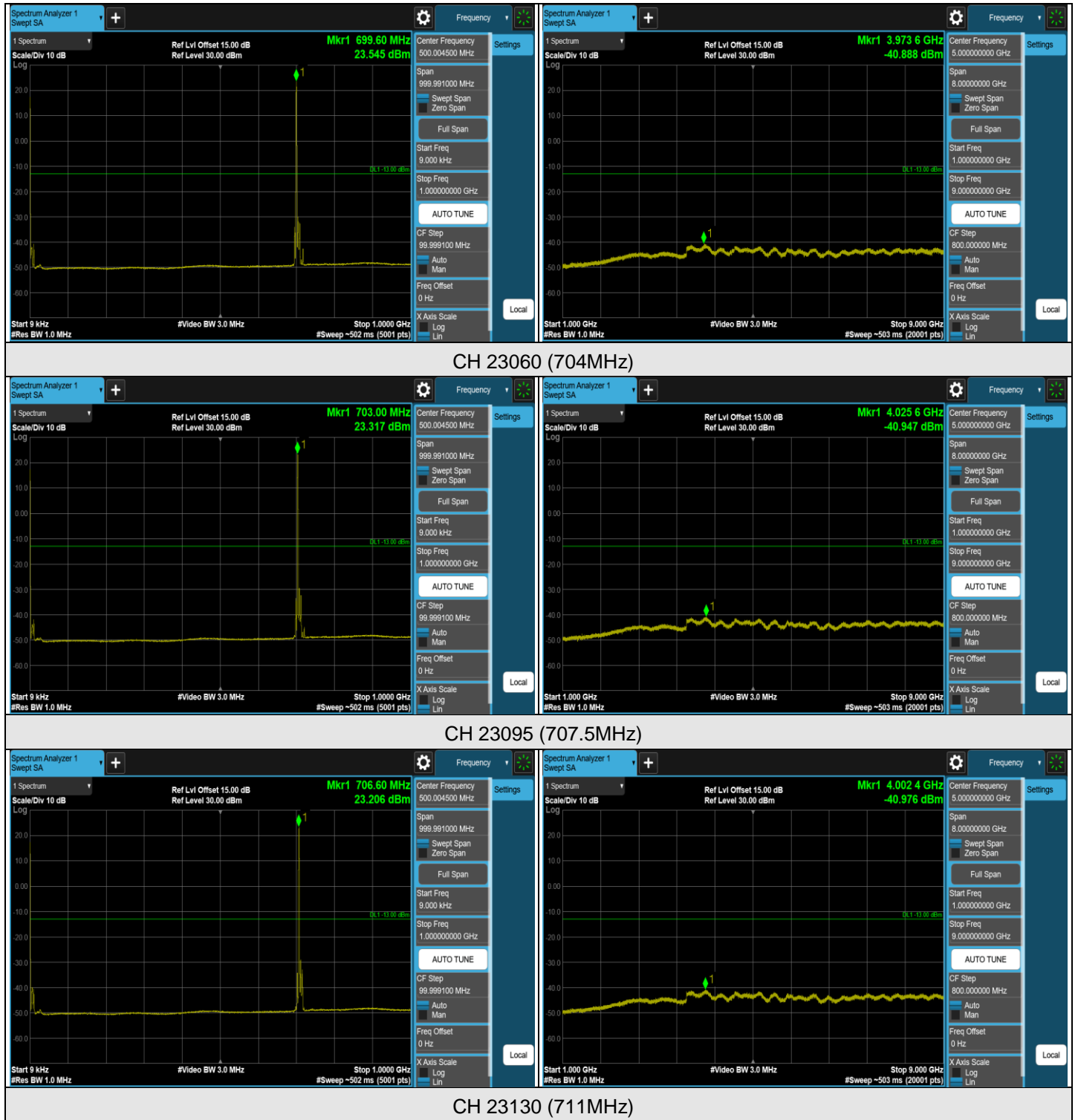
FULL CH 23035 (701.5 MHz)



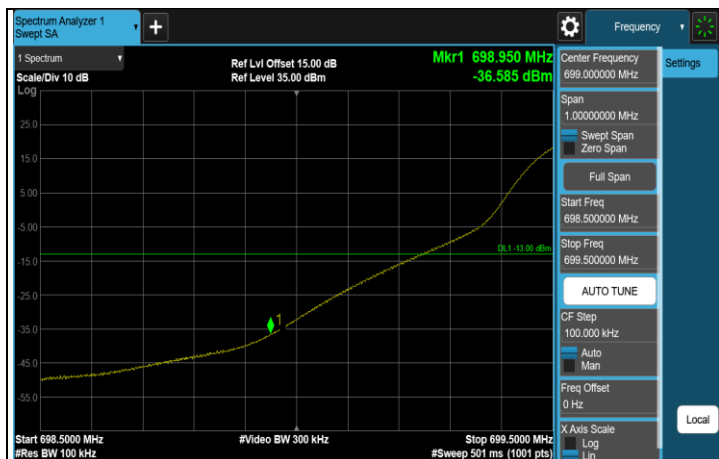
FULL CH 23155 (713.5 MHz)



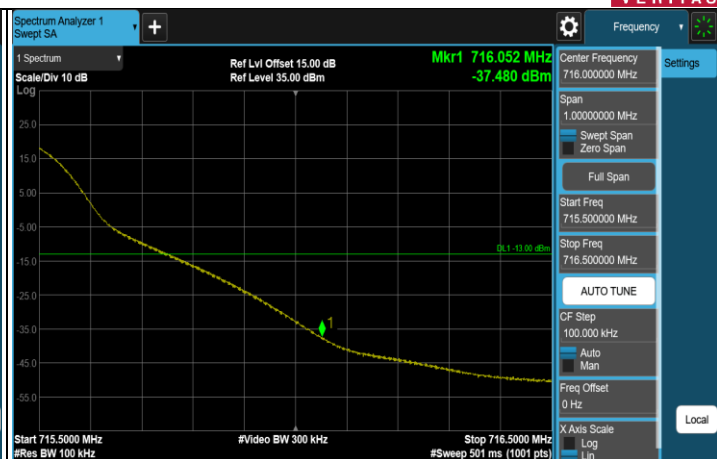
LTE Band 12, Channel Bandwidth: 10 MHz



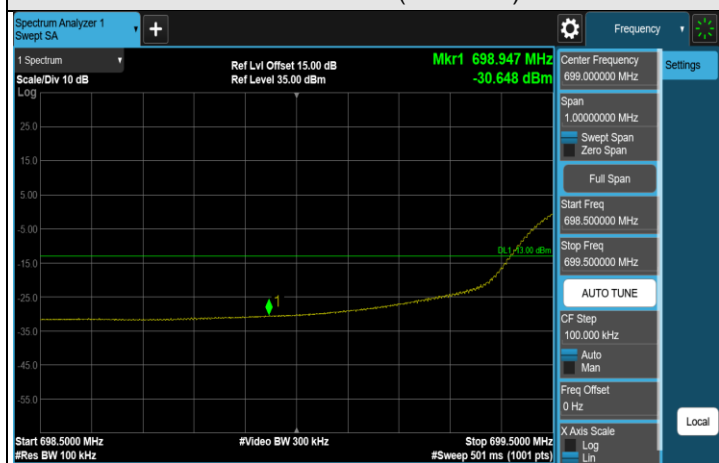
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



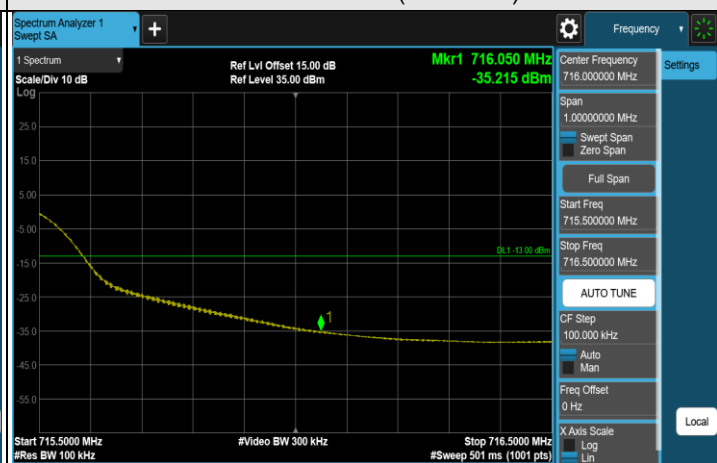
1RB CH 23060 (704 MHz)



1RB CH 23130 (711 MHz)



FULL CH 23060 (704 MHz)



FULL CH 23130 (711 MHz)

7.6 Radiated Spurious Emissions below 1GHz

7.6.1 LTE Band 2

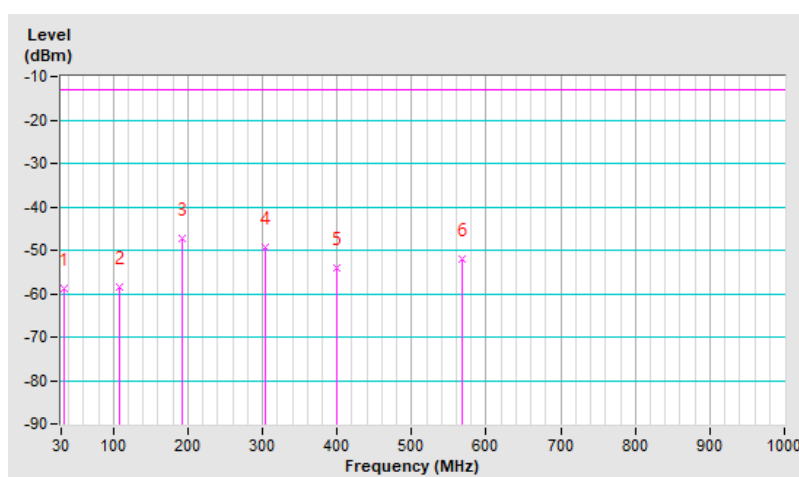
Mode A

| | | | |
|------------------------|--|--|---------------------|
| RF Mode | LTE Band 2 Channel Bandwidth: 20MHz | Channel | CH 18900 : 1880 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, 66% RH |
| Tested By | TitanHSU | | |

| 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 | 34.85 | -58.94 | -13.00 | -45.94 | 2.00 H | 18 | 50.57 | -109.51 |
| 2 | 108.57 | -58.60 | -13.00 | -45.60 | 1.49 H | 266 | 52.96 | -111.56 |
| 3 | 191.99 | -47.35 | -13.00 | -34.35 | 1.49 H | 274 | 64.10 | -111.45 |
| 4 | 303.54 | -49.18 | -13.00 | -36.18 | 1.00 H | 249 | 58.67 | -107.85 |
| 5 | 399.57 | -54.07 | -13.00 | -41.07 | 1.00 H | 132 | 51.50 | -105.57 |
| 6 | 568.35 | -51.90 | -13.00 | -38.90 | 1.49 H | 78 | 49.96 | -101.86 |

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.

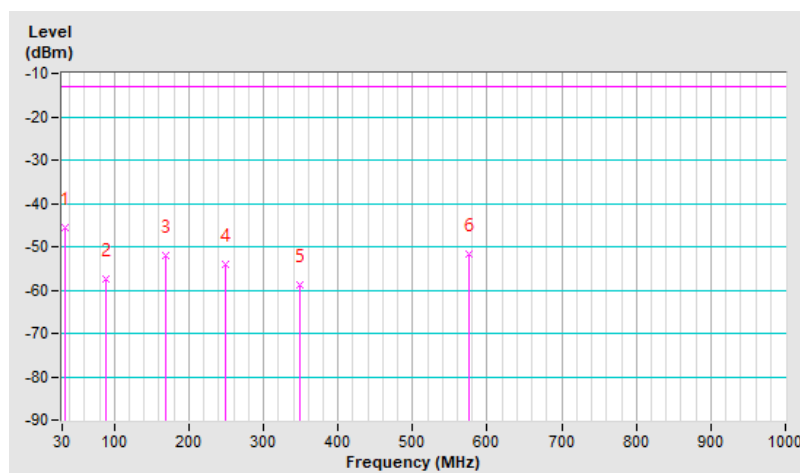


| | | | |
|------------------------|--|--|---------------------|
| RF Mode | LTE Band 2 Channel Bandwidth: 20MHz | Channel | CH 18900 : 1880 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | TitanHSU | | |

| 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 | 34.85 | -45.75 | -13.00 | -32.75 | 1.01 V | 311 | 63.76 | -109.51 |
| 2 | 88.20 | -57.59 | -13.00 | -44.59 | 1.51 V | 303 | 56.74 | -114.33 |
| 3 | 168.71 | -52.13 | -13.00 | -39.13 | 1.01 V | 191 | 56.57 | -108.70 |
| 4 | 249.22 | -53.94 | -13.00 | -40.94 | 1.01 V | 2 | 55.90 | -109.84 |
| 5 | 348.16 | -58.71 | -13.00 | -45.71 | 1.01 V | 152 | 48.29 | -107.00 |
| 6 | 575.14 | -51.57 | -13.00 | -38.57 | 1.51 V | 206 | 50.07 | -101.64 |

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 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.



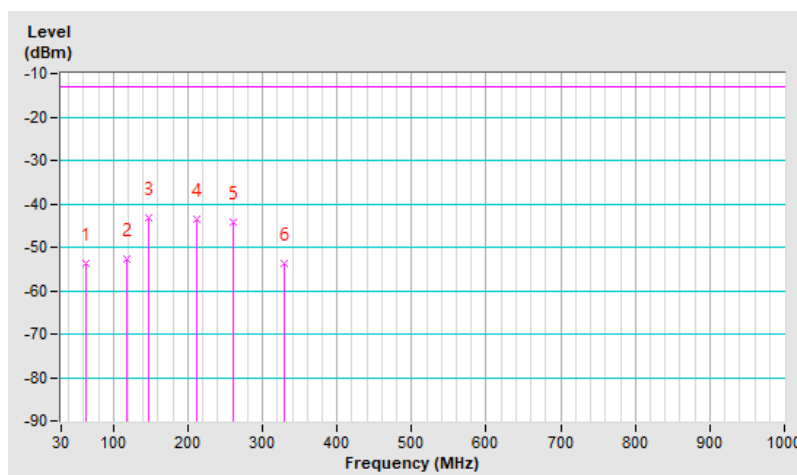
Mode B

| | | | |
|------------------------|--|--|---------------------|
| RF Mode | LTE Band 2 Channel Bandwidth: 20MHz | Channel | CH 18900 : 1880 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, 66% RH |
| Tested By | TitanHSU | | |

| 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 | 63.95 | -53.78 | -13.00 | -40.78 | 2.00 H | 149 | 56.16 | -109.94 |
| 2 | 118.27 | -52.68 | -13.00 | -39.68 | 1.51 H | 266 | 58.05 | -110.73 |
| 3 | 147.37 | -43.09 | -13.00 | -30.09 | 2.00 H | 63 | 65.26 | -108.35 |
| 4 | 212.36 | -43.66 | -13.00 | -30.66 | 1.51 H | 90 | 68.46 | -112.12 |
| 5 | 259.89 | -44.21 | -13.00 | -31.21 | 1.01 H | 59 | 65.29 | -109.50 |
| 6 | 329.73 | -53.79 | -13.00 | -40.79 | 1.01 H | 211 | 53.23 | -107.02 |

Remarks:

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

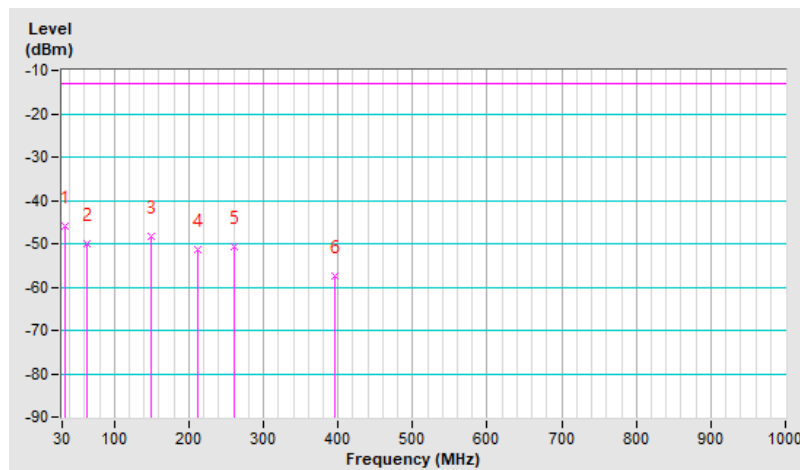


| | | | |
|------------------------|--|--|---------------------|
| RF Mode | LTE Band 2 Channel Bandwidth: 20MHz | Channel | CH 18900 : 1880 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | TitanHSU | | |

| 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 | 34.85 | -45.86 | -13.00 | -32.86 | 1.00 V | 345 | 63.65 | -109.51 |
| 2 | 62.98 | -49.98 | -13.00 | -36.98 | 1.00 V | 235 | 59.48 | -109.46 |
| 3 | 148.34 | -48.24 | -13.00 | -35.24 | 1.49 V | 165 | 60.16 | -108.40 |
| 4 | 211.39 | -51.21 | -13.00 | -38.21 | 1.49 V | 48 | 60.93 | -112.14 |
| 5 | 259.89 | -50.52 | -13.00 | -37.52 | 1.00 V | 11 | 58.98 | -109.50 |
| 6 | 395.69 | -57.30 | -13.00 | -44.30 | 1.00 V | 148 | 48.32 | -105.62 |

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 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.



7.6.2 LTE Band 4

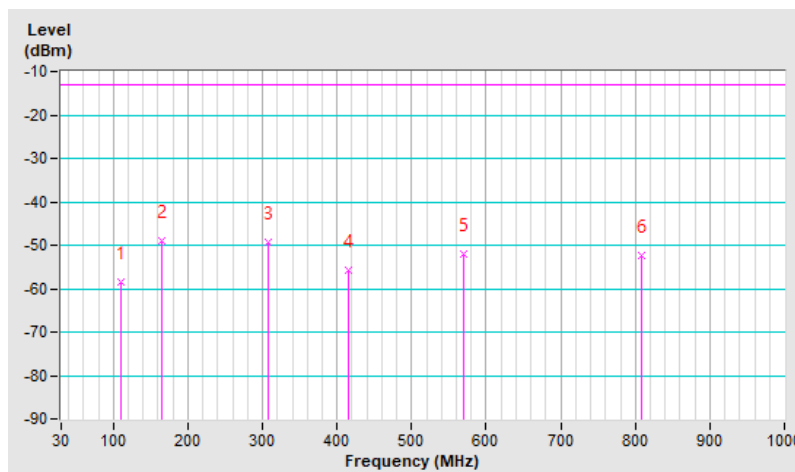
Mode A

| | | | |
|------------------------|--|--|---------------------|
| RF Mode | LTE Band 4 Channel Bandwidth: 20MHz | Channel | CH 20300 : 1745 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, 66% RH |
| Tested By | TitanHSU | | |

| 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 | 110.51 | -58.44 | -13.00 | -45.44 | 1.50 H | 273 | 53.05 | -111.49 |
| 2 | 164.83 | -48.83 | -13.00 | -35.83 | 1.50 H | 264 | 59.72 | -108.55 |
| 3 | 307.42 | -49.47 | -13.00 | -36.47 | 1.01 H | 250 | 58.27 | -107.74 |
| 4 | 416.06 | -55.93 | -13.00 | -42.93 | 1.01 H | 135 | 49.26 | -105.19 |
| 5 | 569.32 | -51.99 | -13.00 | -38.99 | 1.50 H | 80 | 49.85 | -101.84 |
| 6 | 807.94 | -52.28 | -13.00 | -39.28 | 1.01 H | 127 | 45.39 | -97.67 |

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 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.

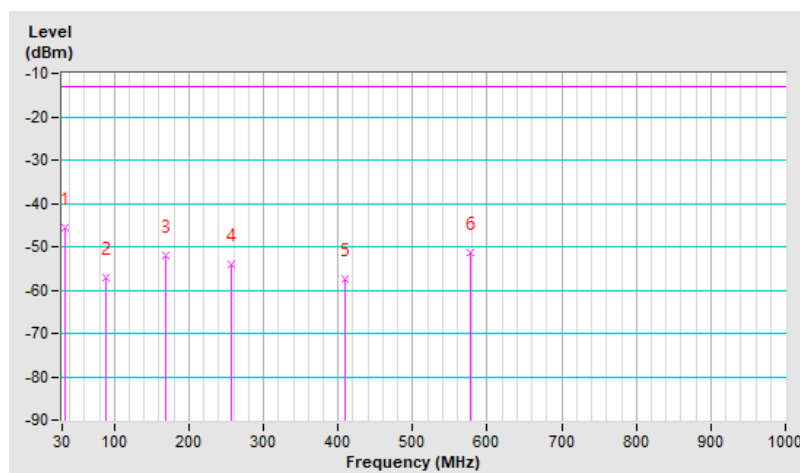


| | | | |
|------------------------|--|--|---------------------|
| RF Mode | LTE Band 4 Channel Bandwidth: 20MHz | Channel | CH 20300 : 1745 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | TitanHSU | | |

| 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 | 34.85 | -45.57 | -13.00 | -32.57 | 1.00 V | 210 | 63.94 | -109.51 |
| 2 | 89.17 | -57.10 | -13.00 | -44.10 | 1.49 V | 344 | 57.20 | -114.30 |
| 3 | 169.68 | -52.07 | -13.00 | -39.07 | 1.00 V | 182 | 56.70 | -108.77 |
| 4 | 256.01 | -54.03 | -13.00 | -41.03 | 1.00 V | 356 | 55.65 | -109.68 |
| 5 | 409.27 | -57.40 | -13.00 | -44.40 | 1.00 V | 148 | 47.93 | -105.33 |
| 6 | 577.08 | -51.49 | -13.00 | -38.49 | 1.00 V | 109 | 50.09 | -101.58 |

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.



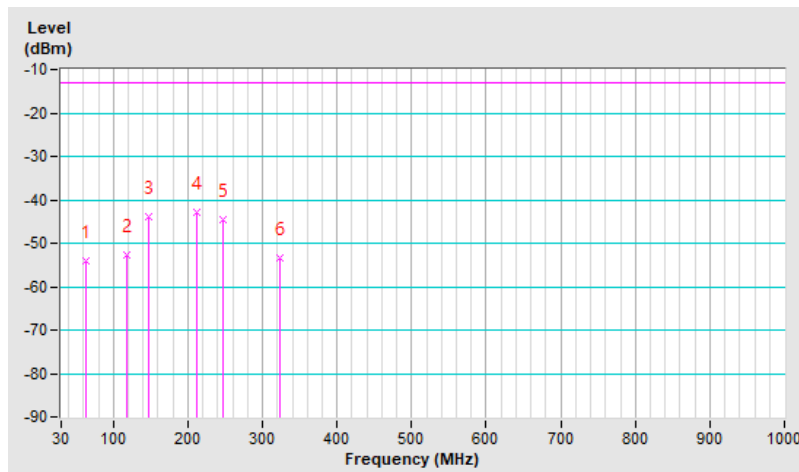
Mode B

| | | | |
|------------------------|--|--|---------------------|
| RF Mode | LTE Band 4 Channel Bandwidth: 20MHz | Channel | CH 20300 : 1745 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, 66% RH |
| Tested By | TitanHSU | | |

| 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 | 62.98 | -54.19 | -13.00 | -41.19 | 1.49 H | 182 | 55.27 | -109.46 |
| 2 | 117.30 | -52.59 | -13.00 | -39.59 | 1.49 H | 272 | 58.22 | -110.81 |
| 3 | 146.40 | -44.04 | -13.00 | -31.04 | 1.49 H | 75 | 64.33 | -108.37 |
| 4 | 212.36 | -42.99 | -13.00 | -29.99 | 1.49 H | 94 | 69.13 | -112.12 |
| 5 | 247.28 | -44.44 | -13.00 | -31.44 | 1.00 H | 249 | 65.44 | -109.88 |
| 6 | 323.91 | -53.54 | -13.00 | -40.54 | 1.00 H | 210 | 53.64 | -107.18 |

Remarks:

- EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
- Margin value = EIRP – Limit value
- The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 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.

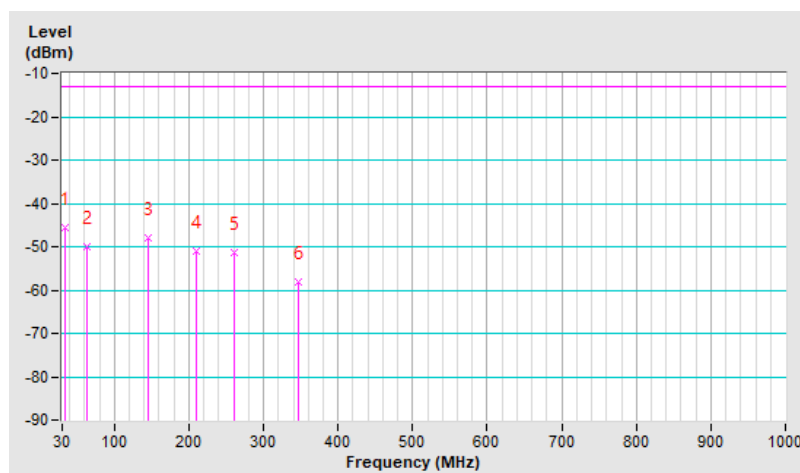


| | | | |
|------------------------|--|--|---------------------|
| RF Mode | LTE Band 4 Channel Bandwidth: 20MHz | Channel | CH 20300 : 1745 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | TitanHSU | | |

| 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 | 34.85 | -45.54 | -13.00 | -32.54 | 1.01 V | 292 | 63.97 | -109.51 |
| 2 | 62.98 | -50.09 | -13.00 | -37.09 | 1.01 V | 304 | 59.37 | -109.46 |
| 3 | 145.43 | -47.82 | -13.00 | -34.82 | 1.01 V | 161 | 60.63 | -108.45 |
| 4 | 210.42 | -51.17 | -13.00 | -38.17 | 1.50 V | 61 | 60.98 | -112.15 |
| 5 | 259.89 | -51.35 | -13.00 | -38.35 | 1.01 V | 2 | 58.15 | -109.50 |
| 6 | 347.19 | -58.04 | -13.00 | -45.04 | 1.50 V | 204 | 48.97 | -107.01 |

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 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.



7.6.3 LTE Band 12

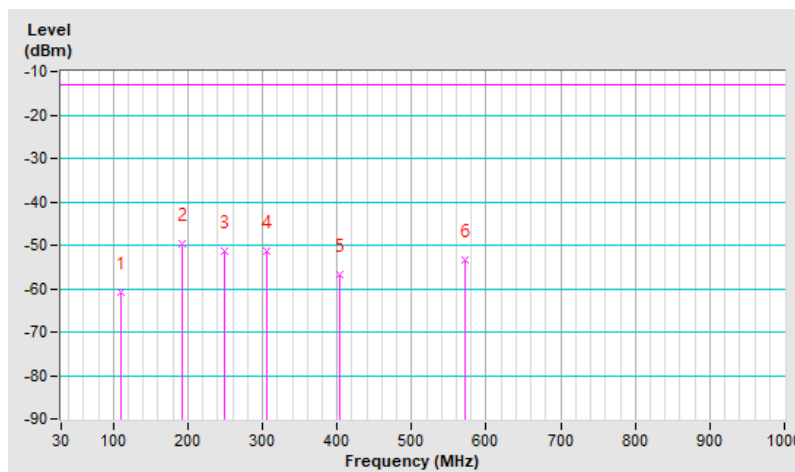
Mode A

| | | | |
|------------------------|---|--|--------------------|
| RF Mode | LTE Band 12 Channel Bandwidth: 10MHz | Channel | CH 23130 : 711 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, 66% RH |
| Tested By | TitanHSU | | |

| 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 | 109.54 | -60.72 | -13.00 | -47.72 | 1.49 H | 246 | 52.96 | -113.68 |
| 2 | 191.99 | -49.70 | -13.00 | -36.70 | 1.49 H | 275 | 63.90 | -113.60 |
| 3 | 249.22 | -51.28 | -13.00 | -38.28 | 1.00 H | 316 | 60.71 | -111.99 |
| 4 | 306.45 | -51.29 | -13.00 | -38.29 | 1.00 H | 253 | 58.63 | -109.92 |
| 5 | 404.42 | -56.91 | -13.00 | -43.91 | 1.00 H | 134 | 50.71 | -107.62 |
| 6 | 571.26 | -53.49 | -13.00 | -40.49 | 1.49 H | 78 | 50.44 | -103.93 |

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) + 20log(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.

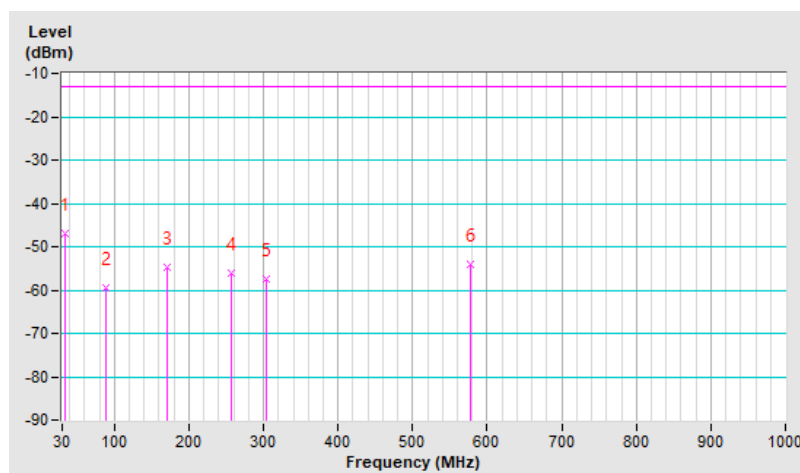


| | | | |
|------------------------|---|--|--------------------|
| RF Mode | LTE Band 12 Channel Bandwidth: 10MHz | Channel | CH 23130 : 711 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | TitanHSU | | |

| 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 | 34.85 | -47.08 | -13.00 | -34.08 | 1.01 V | 297 | 64.58 | -111.66 |
| 2 | 88.20 | -59.56 | -13.00 | -46.56 | 1.50 V | 322 | 56.92 | -116.48 |
| 3 | 170.65 | -54.67 | -13.00 | -41.67 | 1.01 V | 189 | 56.28 | -110.95 |
| 4 | 256.01 | -56.25 | -13.00 | -43.25 | 1.01 V | 5 | 55.58 | -111.83 |
| 5 | 303.54 | -57.33 | -13.00 | -44.33 | 1.50 V | 229 | 52.67 | -110.00 |
| 6 | 578.05 | -53.95 | -13.00 | -40.95 | 1.01 V | 117 | 49.74 | -103.69 |

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 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.



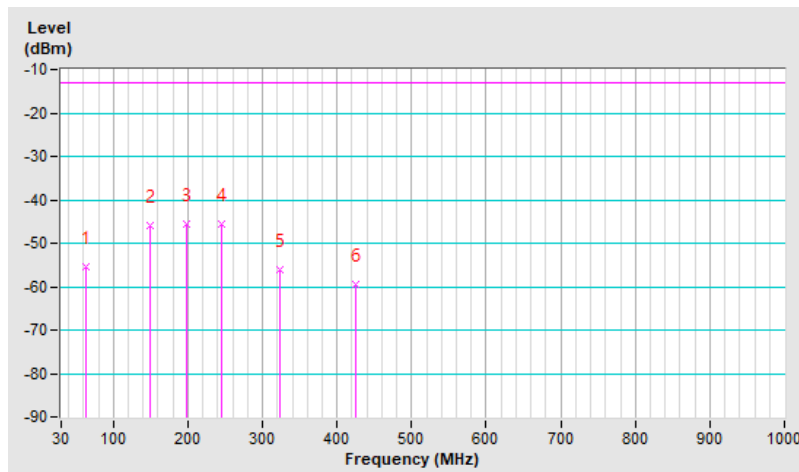
Mode B

| | | | |
|------------------------|---|--|--------------------|
| RF Mode | LTE Band 12 Channel Bandwidth: 10MHz | Channel | CH 23130 : 711 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, 66% RH |
| Tested By | TitanHSU | | |

| 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 | 63.95 | -55.45 | -13.00 | -42.45 | 1.50 H | 160 | 56.64 | -112.09 |
| 2 | 149.31 | -45.89 | -13.00 | -32.89 | 1.50 H | 65 | 64.58 | -110.47 |
| 3 | 198.78 | -45.64 | -13.00 | -32.64 | 1.50 H | 308 | 68.57 | -114.21 |
| 4 | 245.34 | -45.73 | -13.00 | -32.73 | 1.50 H | 73 | 66.33 | -112.06 |
| 5 | 322.94 | -56.01 | -13.00 | -43.01 | 1.01 H | 202 | 53.35 | -109.36 |
| 6 | 424.79 | -59.47 | -13.00 | -46.47 | 1.01 H | 330 | 47.56 | -107.03 |

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 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.

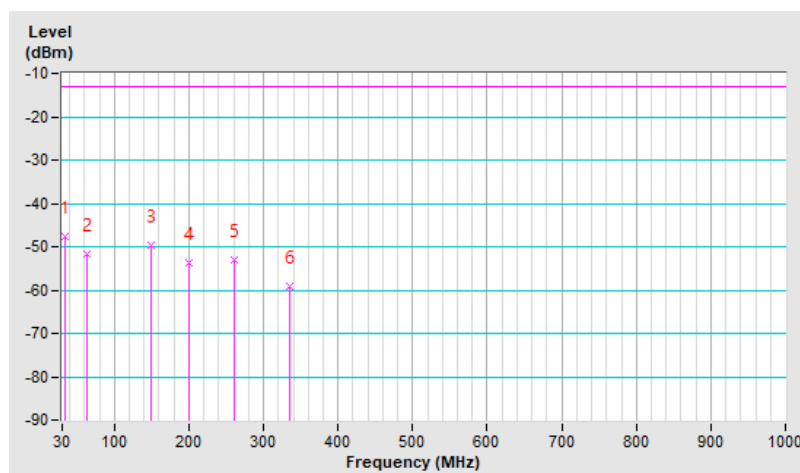


| | | | |
|------------------------|---|--|--------------------|
| RF Mode | LTE Band 12 Channel Bandwidth: 10MHz | Channel | CH 23130 : 711 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | TitanHSU | | |

| 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 | 34.85 | -47.55 | -13.00 | -34.55 | 1.00 V | 283 | 64.11 | -111.66 |
| 2 | 62.98 | -51.62 | -13.00 | -38.62 | 1.00 V | 267 | 59.99 | -111.61 |
| 3 | 149.31 | -49.56 | -13.00 | -36.56 | 1.00 V | 173 | 60.91 | -110.47 |
| 4 | 200.72 | -53.88 | -13.00 | -40.88 | 1.49 V | 83 | 60.37 | -114.25 |
| 5 | 260.86 | -53.15 | -13.00 | -40.15 | 1.49 V | 2 | 58.46 | -111.61 |
| 6 | 334.58 | -59.15 | -13.00 | -46.15 | 1.49 V | 210 | 49.98 | -109.13 |

Remarks:

- ERP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 – 2.15
- Margin value = ERP – Limit value
- The other ERP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 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.



7.7 Radiated Spurious Emissions above 1GHz

7.7.1 LTE Band 2

| | | | |
|------------------------|---|--|-----------------------|
| RF Mode | LTE Band 2 Channel Bandwidth: 1.4MHz | Channel | CH 18607 : 1850.7 MHz |
| Frequency Range | 1 GHz ~ 20 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 3701.40 | -42.38 | -13.00 | -29.38 | 1.51 H | 42 | 52.70 | -95.08 |
| 2 | 16656.30 | -25.37 | -13.00 | -12.37 | 1.83 H | 342 | 58.60 | -83.97 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 3701.40 | -41.07 | -13.00 | -28.07 | 1.04 V | 9 | 54.01 | -95.08 |
| 2 | 16656.30 | -26.02 | -13.00 | -13.02 | 1.76 V | 343 | 57.95 | -83.97 |

Remarks:

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



| | | | |
|------------------------|---|--|---------------------|
| RF Mode | LTE Band 2 Channel Bandwidth: 1.4MHz | Channel | CH 18900 : 1880 MHz |
| Frequency Range | 1 GHz ~ 20 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -41.90 | -13.00 | -28.90 | 1.50 H | 40 | 52.92 | -94.82 |
| 2 | 16920.00 | -25.35 | -13.00 | -12.35 | 1.78 H | 346 | 58.95 | -84.30 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -40.54 | -13.00 | -27.54 | 1.03 V | 6 | 54.28 | -94.82 |
| 2 | 16920.00 | -26.23 | -13.00 | -13.23 | 1.69 V | 349 | 58.07 | -84.30 |

Remarks:

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

| | | | |
|------------------------|---|--|-----------------------|
| RF Mode | LTE Band 2 Channel Bandwidth: 1.4MHz | Channel | CH 19193 : 1909.3 MHz |
| Frequency Range | 1 GHz ~ 20 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3818.60 | -41.28 | -13.00 | -28.28 | 1.51 H | 44 | 53.29 | -94.57 |
| 2 | 17183.70 | -25.46 | -13.00 | -12.46 | 1.83 H | 345 | 58.86 | -84.32 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3818.60 | -40.64 | -13.00 | -27.64 | 1.08 V | 10 | 53.93 | -94.57 |
| 2 | 17183.70 | -26.90 | -13.00 | -13.90 | 1.71 V | 349 | 57.42 | -84.32 |

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.



| | | | |
|------------------------|---------------------------------------|--|-----------------------|
| RF Mode | LTE Band 2 Channel Bandwidth: 5MHz | Channel | CH 18625 : 1852.5 MHz |
| Frequency Range | 1 GHz ~ 20 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3705.00 | -42.43 | -13.00 | -29.43 | 1.51 H | 43 | 52.63 | -95.06 |
| 2 | 16672.50 | -25.23 | -13.00 | -12.23 | 1.86 H | 341 | 58.67 | -83.90 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3705.00 | -41.53 | -13.00 | -28.53 | 1.07 V | 10 | 53.53 | -95.06 |
| 2 | 16672.50 | -26.33 | -13.00 | -13.33 | 1.76 V | 343 | 57.57 | -83.90 |

Remarks:

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

| | | | |
|------------------------|---------------------------------------|--|---------------------|
| RF Mode | LTE Band 2 Channel Bandwidth: 5MHz | Channel | CH 18900 : 1880 MHz |
| Frequency Range | 1 GHz ~ 20 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -42.28 | -13.00 | -29.28 | 1.53 H | 43 | 52.54 | -94.82 |
| 2 | 16920.00 | -25.60 | -13.00 | -12.60 | 1.82 H | 342 | 58.70 | -84.30 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -40.76 | -13.00 | -27.76 | 1.02 V | 11 | 54.06 | -94.82 |
| 2 | 16920.00 | -26.19 | -13.00 | -13.19 | 1.69 V | 348 | 58.11 | -84.30 |

Remarks:

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



| | | | |
|------------------------|---------------------------------------|--|-----------------------|
| RF Mode | LTE Band 2 Channel Bandwidth: 5MHz | Channel | CH 19175 : 1907.5 MHz |
| Frequency Range | 1 GHz ~ 20 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3815.00 | -41.44 | -13.00 | -28.44 | 1.52 H | 46 | 53.15 | -94.59 |
| 2 | 17167.50 | -25.36 | -13.00 | -12.36 | 1.84 H | 345 | 58.95 | -84.31 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3815.00 | -41.08 | -13.00 | -28.08 | 1.06 V | 6 | 53.51 | -94.59 |
| 2 | 17167.50 | -26.50 | -13.00 | -13.50 | 1.70 V | 345 | 57.81 | -84.31 |

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.

| | | | |
|------------------------|--|--|---------------------|
| RF Mode | LTE Band 2 Channel Bandwidth: 20MHz | Channel | CH 18700 : 1860 MHz |
| Frequency Range | 1 GHz ~ 20 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3720.00 | -42.50 | -13.00 | -29.50 | 1.46 H | 45 | 52.50 | -95.00 |
| 2 | 16740.00 | -25.19 | -13.00 | -12.19 | 1.88 H | 345 | 58.62 | -83.81 |
| 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 | -41.01 | -13.00 | -28.01 | 1.08 V | 7 | 53.99 | -95.00 |
| 2 | 16740.00 | -26.31 | -13.00 | -13.31 | 1.70 V | 343 | 57.50 | -83.81 |

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.



| | | | |
|------------------------|--|--|---------------------|
| RF Mode | LTE Band 2 Channel Bandwidth: 20MHz | Channel | CH 18900 : 1880 MHz |
| Frequency Range | 1 GHz ~ 20 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -42.27 | -13.00 | -29.27 | 1.46 H | 44 | 52.55 | -94.82 |
| 2 | 16920.00 | -25.11 | -13.00 | -12.11 | 1.82 H | 340 | 59.19 | -84.30 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3760.00 | -40.59 | -13.00 | -27.59 | 1.02 V | 6 | 54.23 | -94.82 |
| 2 | 16920.00 | -26.77 | -13.00 | -13.77 | 1.67 V | 345 | 57.53 | -84.30 |

Remarks:

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

| | | | |
|------------------------|--|--|---------------------|
| RF Mode | LTE Band 2 Channel Bandwidth: 20MHz | Channel | CH 19100 : 1900 MHz |
| Frequency Range | 1 GHz ~ 20 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3800.00 | -42.07 | -13.00 | -29.07 | 1.50 H | 41 | 52.57 | -94.64 |
| 2 | 17100.00 | -25.50 | -13.00 | -12.50 | 1.86 H | 341 | 58.79 | -84.29 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3800.00 | -40.59 | -13.00 | -27.59 | 1.00 V | 6 | 54.05 | -94.64 |
| 2 | 17100.00 | -26.76 | -13.00 | -13.76 | 1.73 V | 343 | 57.53 | -84.29 |

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.

7.7.2 LTE Band 4

| | | | |
|------------------------|---|--|-----------------------|
| RF Mode | LTE Band 4 Channel Bandwidth: 1.4MHz | Channel | CH 19957 : 1710.7 MHz |
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 3421.40 | -48.17 | -13.00 | -35.17 | 1.13 H | 325 | 47.87 | -96.04 |

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 | 3421.40 | -47.04 | -13.00 | -34.04 | 1.11 V | 146 | 49.00 | -96.04 |

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 4 Channel Bandwidth: 1.4MHz | Channel | CH 20175 : 1732.5 MHz |
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 3465.00 | -48.18 | -13.00 | -35.18 | 1.09 H | 327 | 47.78 | -95.96 |

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 | 3465.00 | -46.69 | -13.00 | -33.69 | 1.06 V | 144 | 49.27 | -95.96 |

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 4 Channel Bandwidth: 1.4MHz | Channel | CH 20393 : 1754.3 MHz |
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3508.60 | -47.56 | -13.00 | -34.56 | 1.15 H | 327 | 48.21 | -95.77 |
| 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 | 3508.60 | -46.80 | -13.00 | -33.80 | 1.13 V | 148 | 48.97 | -95.77 |

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 4 Channel Bandwidth: 5MHz | Channel | CH 19975 : 1712.5 MHz |
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3425.00 | -47.68 | -13.00 | -34.68 | 1.12 H | 328 | 48.35 | -96.03 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3425.00 | -46.70 | -13.00 | -33.70 | 1.13 V | 150 | 49.33 | -96.03 |

Remarks:

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



| | | | |
|------------------------|---------------------------------------|--|-----------------------|
| RF Mode | LTE Band 4 Channel Bandwidth: 5MHz | Channel | CH 20175 : 1732.5 MHz |
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3465.00 | -47.44 | -13.00 | -34.44 | 1.12 H | 321 | 48.52 | -95.96 |
| 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 | 3465.00 | -47.08 | -13.00 | -34.08 | 1.08 V | 146 | 48.88 | -95.96 |

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 4 Channel Bandwidth: 5MHz | Channel | CH 20375 : 1752.5 MHz |
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3505.00 | -47.67 | -13.00 | -34.67 | 1.11 H | 321 | 48.12 | -95.79 |
| 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 | 3505.00 | -47.05 | -13.00 | -34.05 | 1.14 V | 146 | 48.74 | -95.79 |

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.



| | | | |
|------------------------|--|--|---------------------|
| RF Mode | LTE Band 4 Channel Bandwidth: 20MHz | Channel | CH 20050 : 1720 MHz |
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3440.00 | -47.57 | -13.00 | -34.57 | 1.07 H | 321 | 48.46 | -96.03 |
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3440.00 | -47.43 | -13.00 | -34.43 | 1.06 V | 151 | 48.60 | -96.03 |

Remarks:

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

| | | | |
|------------------------|--|--|-----------------------|
| RF Mode | LTE Band 4 Channel Bandwidth: 20MHz | Channel | CH 20175 : 1732.5 MHz |
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 3465.00 | -47.97 | -13.00 | -34.97 | 1.07 H | 325 | 47.99 | -95.96 |
| 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 | 3465.00 | -47.29 | -13.00 | -34.29 | 1.10 V | 146 | 48.67 | -95.96 |

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 4 Channel Bandwidth: 20MHz | Channel | CH 20300 : 1745 MHz |
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 3490.00 | -47.86 | -13.00 | -34.86 | 1.14 H | 321 | 47.99 | -95.85 |

Antenna Polarity & Test Distance : Vertical at 3 m

| No | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|------------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 3490.00 | -46.61 | -13.00 | -33.61 | 1.07 V | 150 | 49.24 | -95.85 |

Remarks:

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

7.7.3 LTE Band 12

| | | | |
|------------------------|--|--|----------------------|
| RF Mode | LTE Band 12 Channel Bandwidth: 1.4MHz | Channel | CH 23017 : 699.7 MHz |
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 1399.40 | -48.37 | -13.00 | -35.37 | 1.59 H | 158 | 55.47 | -103.84 |

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 | 1399.40 | -50.90 | -13.00 | -37.90 | 1.85 V | 252 | 52.94 | -103.84 |

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 Channel Bandwidth: 1.4MHz | Channel | CH 23095 : 707.5 MHz |
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 1415.00 | -48.21 | -13.00 | -35.21 | 1.63 H | 155 | 55.57 | -103.78 |

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 | 1415.00 | -50.38 | -13.00 | -37.38 | 1.86 V | 259 | 53.40 | -103.78 |

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 Channel Bandwidth: 1.4MHz | Channel | CH 23173 : 715.3 MHz |
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 1430.60 | -48.04 | -13.00 | -35.04 | 1.63 H | 159 | 55.67 | -103.71 |

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 | 1430.60 | -50.43 | -13.00 | -37.43 | 1.83 V | 258 | 53.28 | -103.71 |

Remarks:

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

| | | | |
|------------------------|--|--|----------------------|
| RF Mode | LTE Band 12 Channel Bandwidth: 5MHz | Channel | CH 23035 : 701.5 MHz |
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 1403.00 | -48.03 | -13.00 | -35.03 | 1.59 H | 152 | 55.79 | -103.82 |

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 | 1403.00 | -50.82 | -13.00 | -37.82 | 1.80 V | 255 | 53.00 | -103.82 |

Remarks:

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

| | | | |
|------------------------|--|--|----------------------|
| RF Mode | LTE Band 12 Channel Bandwidth: 5MHz | Channel | CH 23095 : 707.5 MHz |
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 1415.00 | -47.84 | -13.00 | -34.84 | 1.58 H | 152 | 55.94 | -103.78 |

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 | 1415.00 | -50.44 | -13.00 | -37.44 | 1.85 V | 258 | 53.34 | -103.78 |

Remarks:

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

| | | | |
|------------------------|--|--|----------------------|
| RF Mode | LTE Band 12 Channel Bandwidth: 5MHz | Channel | CH 23155 : 713.5 MHz |
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | 1427.00 | -47.44 | -13.00 | -34.44 | 1.55 H | 158 | 56.28 | -103.72 |

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 | 1427.00 | -50.31 | -13.00 | -37.31 | 1.88 V | 258 | 53.41 | -103.72 |

Remarks:

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



| | | | |
|------------------------|---|--|--------------------|
| RF Mode | LTE Band 12 Channel Bandwidth: 10MHz | Channel | CH 23060 : 704 MHz |
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1408.00 | -47.93 | -13.00 | -34.93 | 1.55 H | 156 | 55.88 | -103.81 |
| 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 | 1408.00 | -50.28 | -13.00 | -37.28 | 1.82 V | 252 | 53.53 | -103.81 |

Remarks:

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

| | | | |
|------------------------|---|--|----------------------|
| RF Mode | LTE Band 12 Channel Bandwidth: 10MHz | Channel | CH 23095 : 707.5 MHz |
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1415.00 | -47.80 | -13.00 | -34.80 | 1.59 H | 153 | 55.98 | -103.78 |
| 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 | 1415.00 | -50.13 | -13.00 | -37.13 | 1.81 V | 258 | 53.65 | -103.78 |

Remarks:

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



| | | | |
|------------------------|---|--|--------------------|
| RF Mode | LTE Band 12 Channel Bandwidth: 10MHz | Channel | CH 23130 : 711 MHz |
| Frequency Range | 1 GHz ~ 18 GHz | Detector Function & Bandwidth | 1 MHz/3 MHz (RMS) |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 66% RH |
| Tested By | Edison Lee | | |

| Antenna Polarity & Test Distance : Horizontal at 3 m | | | | | | | | |
|--|-----------------|-----------|-------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | ERP (dBm) | Limit (dBm) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 1422.00 | -47.34 | -13.00 | -34.34 | 1.58 H | 155 | 56.41 | -103.75 |
| 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 | 1422.00 | -50.17 | -13.00 | -37.17 | 1.81 V | 254 | 53.58 | -103.75 |

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.

7.8 Frequency Stability

| | | | |
|---------------------------|--------------|------------|------------|
| Environmental Conditions: | 25°C, 60% RH | Tested By: | Naoh Chang |
|---------------------------|--------------|------------|------------|

7.8.1 LTE Band 2

LTE Band 2, Channel Bandwidth: 1.4 MHz

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc) | CH 18607 (1850.7 MHz) | | CH 19193 (1909.3 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.00 | -0.001 | 1909.3000030 | 0.002 | -0.001 |
| 3.88 | 0.001 | 1909.3000030 | 0.002 | 0.001 |
| 4.55 | -0.002 | 1909.2999960 | -0.002 | -0.002 |

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

| Frequency Stability Versus Temperature | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C) | CH 18607 (1850.7 MHz) | | CH 19193 (1909.3 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 1850.7000010 | 0.001 | 1909.3000020 | 0.001 |
| -20 | 1850.7000010 | 0.001 | 1909.2999990 | -0.001 |
| -10 | 1850.6999970 | -0.002 | 1909.2999990 | -0.001 |
| 0 | 1850.7000040 | 0.002 | 1909.3000020 | 0.001 |
| 10 | 1850.6999960 | -0.002 | 1909.2999970 | -0.002 |
| 20 | 1850.6999990 | -0.001 | 1909.2999980 | -0.001 |
| 30 | 1850.6999990 | -0.001 | 1909.2999960 | -0.002 |
| 40 | 1850.7000040 | 0.002 | 1909.2999990 | -0.001 |
| 50 | 1850.7000020 | 0.001 | 1909.2999980 | -0.001 |

LTE Band 2, Channel Bandwidth: 3 MHz

| Frequency Stability Versus Voltage | | | | |
|---|------------------------------|------------------------------|------------------------------|------------------------------|
| Voltage (Vdc) | CH 18615 (1851.5 MHz) | | CH 19185 (1908.5 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.00 | 1851.4999980 | -0.001 | 1908.4999960 | -0.002 |
| 3.88 | 1851.5000020 | 0.001 | 1908.4999960 | -0.002 |
| 4.55 | 1851.4999990 | -0.001 | 1908.4999990 | -0.001 |

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

| Frequency Stability Versus Temperature | | | | |
|---|------------------------------|------------------------------|------------------------------|------------------------------|
| Temperature (°C) | CH 18615 (1851.5 MHz) | | CH 19185 (1908.5 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 1851.4999990 | -0.001 | 1908.5000010 | 0.001 |
| -20 | 1851.5000010 | 0.001 | 1908.5000010 | 0.001 |
| -10 | 1851.5000040 | 0.002 | 1908.5000030 | 0.002 |
| 0 | 1851.4999980 | -0.001 | 1908.4999970 | -0.002 |
| 10 | 1851.4999970 | -0.002 | 1908.4999970 | -0.002 |
| 20 | 1851.4999970 | -0.002 | 1908.4999970 | -0.002 |
| 30 | 1851.4999970 | -0.002 | 1908.5000020 | 0.001 |
| 40 | 1851.5000010 | 0.001 | 1908.4999980 | -0.001 |
| 50 | 1851.4999990 | -0.001 | 1908.4999960 | -0.002 |

LTE Band 2, Channel Bandwidth: 5 MHz

| Frequency Stability Versus Voltage | | | | |
|---|------------------------------|------------------------------|------------------------------|------------------------------|
| Voltage (Vdc) | CH 18625 (1852.5 MHz) | | CH 19175 (1907.5 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.00 | 1852.5000030 | 0.002 | 1907.4999980 | -0.001 |
| 3.88 | 1852.4999980 | -0.001 | 1907.5000010 | 0.001 |
| 4.55 | 1852.4999990 | -0.001 | 1907.4999990 | -0.001 |

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

| Frequency Stability Versus Temperature | | | | |
|---|------------------------------|------------------------------|------------------------------|------------------------------|
| Temperature (°C) | CH 18625 (1852.5 MHz) | | CH 19175 (1907.5 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 1852.4999980 | -0.001 | 1907.5000010 | 0.001 |
| -20 | 1852.5000020 | 0.001 | 1907.4999960 | -0.002 |
| -10 | 1852.5000020 | 0.001 | 1907.4999960 | -0.002 |
| 0 | 1852.4999980 | -0.001 | 1907.5000040 | 0.002 |
| 10 | 1852.5000030 | 0.002 | 1907.4999990 | -0.001 |
| 20 | 1852.4999990 | -0.001 | 1907.4999970 | -0.002 |
| 30 | 1852.4999960 | -0.002 | 1907.5000020 | 0.001 |
| 40 | 1852.5000020 | 0.001 | 1907.4999970 | -0.002 |
| 50 | 1852.4999970 | -0.002 | 1907.4999960 | -0.002 |

LTE Band 2, Channel Bandwidth: 10 MHz

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Voltage (Vdc) | CH 18650 (1855 MHz) | | CH 19150 (1905 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.00 | 1854.9999970 | -0.002 | 1905.0000010 | 0.001 |
| 3.88 | 1855.0000030 | 0.002 | 1905.0000020 | 0.001 |
| 4.55 | 1855.0000040 | 0.002 | 1904.9999980 | -0.001 |

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

| Frequency Stability Versus Temperature | | | | |
|--|---------------------|-----------------------|---------------------|-----------------------|
| Temperature (°C) | CH 18650 (1855 MHz) | | CH 19150 (1905 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 1855.0000010 | 0.001 | 1905.0000020 | 0.001 |
| -20 | 1854.9999990 | -0.001 | 1905.0000030 | 0.002 |
| -10 | 1855.0000030 | 0.002 | 1904.9999990 | -0.001 |
| 0 | 1854.9999970 | -0.002 | 1904.9999990 | -0.001 |
| 10 | 1855.0000040 | 0.002 | 1904.9999970 | -0.002 |
| 20 | 1854.9999970 | -0.002 | 1905.0000040 | 0.002 |
| 30 | 1854.9999980 | -0.001 | 1904.9999980 | -0.001 |
| 40 | 1855.0000020 | 0.001 | 1904.9999970 | -0.002 |
| 50 | 1855.0000010 | 0.001 | 1904.9999990 | -0.001 |

LTE Band 2, Channel Bandwidth: 15 MHz

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc) | CH 18675 (1857.5 MHz) | | CH 19125 (1902.5 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.00 | 1857.5000030 | 0.002 | 1902.4999960 | -0.002 |
| 3.88 | 1857.5000040 | 0.002 | 1902.5000020 | 0.001 |
| 4.55 | 1857.4999960 | -0.002 | 1902.4999970 | -0.002 |

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

| Frequency Stability Versus Temperature | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C) | CH 18675 (1857.5 MHz) | | CH 19125 (1902.5 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 1857.5000030 | 0.002 | 1902.5000020 | 0.001 |
| -20 | 1857.4999970 | -0.002 | 1902.4999980 | -0.001 |
| -10 | 1857.5000040 | 0.002 | 1902.5000020 | 0.001 |
| 0 | 1857.5000030 | 0.002 | 1902.5000010 | 0.001 |
| 10 | 1857.4999980 | -0.001 | 1902.4999990 | -0.001 |
| 20 | 1857.4999990 | -0.001 | 1902.4999970 | -0.002 |
| 30 | 1857.4999990 | -0.001 | 1902.5000020 | 0.001 |
| 40 | 1857.5000010 | 0.001 | 1902.4999970 | -0.002 |
| 50 | 1857.4999960 | -0.002 | 1902.4999990 | -0.001 |

LTE Band 2, Channel Bandwidth: 20 MHz

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Voltage (Vdc) | CH 18700 (1860 MHz) | | CH 19100 (1900 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.00 | 1860.0000030 | 0.002 | 1899.9999960 | -0.002 |
| 3.88 | 1859.9999970 | -0.002 | 1899.9999990 | -0.001 |
| 4.55 | 1859.9999960 | -0.002 | 1899.9999980 | -0.001 |

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

| Frequency Stability Versus Temperature | | | | |
|--|---------------------|-----------------------|---------------------|-----------------------|
| Temperature (°C) | CH 18700 (1860 MHz) | | CH 19100 (1900 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 1860.0000030 | 0.002 | 1900.0000040 | 0.002 |
| -20 | 1860.0000010 | 0.001 | 1899.9999970 | -0.002 |
| -10 | 1859.9999970 | -0.002 | 1900.0000030 | 0.002 |
| 0 | 1859.9999980 | -0.001 | 1900.0000010 | 0.001 |
| 10 | 1860.0000020 | 0.001 | 1900.0000020 | 0.001 |
| 20 | 1860.0000030 | 0.002 | 1899.9999970 | -0.002 |
| 30 | 1859.9999990 | -0.001 | 1899.9999970 | -0.002 |
| 40 | 1860.0000010 | 0.001 | 1900.0000030 | 0.002 |
| 50 | 1859.9999970 | -0.002 | 1900.0000040 | 0.002 |

7.8.2 LTE Band 4

LTE Band 4, Channel Bandwidth: 1.4 MHz

| Frequency Stability Versus Voltage | | | | |
|---|------------------------------|------------------------------|------------------------------|------------------------------|
| Voltage (Vdc) | CH 19957 (1710.7 MHz) | | CH 20393 (1754.3 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.00 | 1710.7000010 | 0.001 | 1754.2999990 | -0.001 |
| 3.88 | 1710.6999980 | -0.001 | 1754.2999960 | -0.002 |
| 4.55 | 1710.6999990 | -0.001 | 1754.2999970 | -0.002 |

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

| Frequency Stability Versus Temperature | | | | |
|---|------------------------------|------------------------------|------------------------------|------------------------------|
| Temperature (°C) | CH 19957 (1710.7 MHz) | | CH 20393 (1754.3 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 1710.6999960 | -0.002 | 1754.2999970 | -0.002 |
| -20 | 1710.6999960 | -0.002 | 1754.3000030 | 0.002 |
| -10 | 1710.7000020 | 0.001 | 1754.2999980 | -0.001 |
| 0 | 1710.6999980 | -0.001 | 1754.2999970 | -0.002 |
| 10 | 1710.7000030 | 0.002 | 1754.3000040 | 0.002 |
| 20 | 1710.7000040 | 0.002 | 1754.3000010 | 0.001 |
| 30 | 1710.7000030 | 0.002 | 1754.2999990 | -0.001 |
| 40 | 1710.7000030 | 0.002 | 1754.2999970 | -0.002 |
| 50 | 1710.7000030 | 0.002 | 1754.2999960 | -0.002 |

LTE Band 4, Channel Bandwidth: 3 MHz

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc) | CH 19965 (1711.5 MHz) | | CH 20385 (1753.5 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.00 | 1711.4999990 | -0.001 | 1753.4999970 | -0.002 |
| 3.88 | 1711.5000030 | 0.002 | 1753.5000020 | 0.001 |
| 4.55 | 1711.4999970 | -0.002 | 1753.4999990 | -0.001 |

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

| Frequency Stability Versus Temperature | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C) | CH 19965 (1711.5 MHz) | | CH 20385 (1753.5 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 1711.5000020 | 0.001 | 1753.5000030 | 0.002 |
| -20 | 1711.5000010 | 0.001 | 1753.4999970 | -0.002 |
| -10 | 1711.5000020 | 0.001 | 1753.4999960 | -0.002 |
| 0 | 1711.4999990 | -0.001 | 1753.4999970 | -0.002 |
| 10 | 1711.5000040 | 0.002 | 1753.5000020 | 0.001 |
| 20 | 1711.4999970 | -0.002 | 1753.5000030 | 0.002 |
| 30 | 1711.5000030 | 0.002 | 1753.4999960 | -0.002 |
| 40 | 1711.5000020 | 0.001 | 1753.5000040 | 0.002 |
| 50 | 1711.4999980 | -0.001 | 1753.5000030 | 0.002 |

LTE Band 4, Channel Bandwidth: 5 MHz

| Frequency Stability Versus Voltage | | | | |
|---|------------------------------|------------------------------|------------------------------|------------------------------|
| Voltage (Vdc) | CH 19975 (1712.5 MHz) | | CH 20375 (1752.5 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.00 | 1712.5000020 | 0.001 | 1752.4999960 | -0.002 |
| 3.88 | 1712.5000010 | 0.001 | 1752.4999990 | -0.001 |
| 4.55 | 1712.4999980 | -0.001 | 1752.4999960 | -0.002 |

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

| Frequency Stability Versus Temperature | | | | |
|---|------------------------------|------------------------------|------------------------------|------------------------------|
| Temperature (°C) | CH 19975 (1712.5 MHz) | | CH 20375 (1752.5 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 1712.4999990 | -0.001 | 1752.5000030 | 0.002 |
| -20 | 1712.5000010 | 0.001 | 1752.5000010 | 0.001 |
| -10 | 1712.4999960 | -0.002 | 1752.4999990 | -0.001 |
| 0 | 1712.4999990 | -0.001 | 1752.5000030 | 0.002 |
| 10 | 1712.5000040 | 0.002 | 1752.5000040 | 0.002 |
| 20 | 1712.5000020 | 0.001 | 1752.5000020 | 0.001 |
| 30 | 1712.4999980 | -0.001 | 1752.4999960 | -0.002 |
| 40 | 1712.5000010 | 0.001 | 1752.4999960 | -0.002 |
| 50 | 1712.4999990 | -0.001 | 1752.5000040 | 0.002 |

LTE Band 4, Channel Bandwidth: 10 MHz

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Voltage (Vdc) | CH 20000 (1715 MHz) | | CH 20350 (1750 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.00 | 1715.0000020 | 0.001 | 1750.0000040 | 0.002 |
| 3.88 | 1715.0000040 | 0.002 | 1749.9999980 | -0.001 |
| 4.55 | 1715.0000030 | 0.002 | 1749.9999990 | -0.001 |

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

| Frequency Stability Versus Temperature | | | | |
|--|---------------------|-----------------------|---------------------|-----------------------|
| Temperature (°C) | CH 20000 (1715 MHz) | | CH 20350 (1750 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 1714.9999980 | -0.001 | 1749.9999980 | -0.001 |
| -20 | 1715.0000010 | 0.001 | 1750.0000020 | 0.001 |
| -10 | 1714.9999960 | -0.002 | 1750.0000010 | 0.001 |
| 0 | 1715.0000010 | 0.001 | 1750.0000020 | 0.001 |
| 10 | 1715.0000010 | 0.001 | 1750.0000040 | 0.002 |
| 20 | 1715.0000040 | 0.002 | 1750.0000030 | 0.002 |
| 30 | 1714.9999970 | -0.002 | 1750.0000040 | 0.002 |
| 40 | 1714.9999990 | -0.001 | 1749.9999960 | -0.002 |
| 50 | 1714.9999980 | -0.001 | 1749.9999990 | -0.001 |

LTE Band 4, Channel Bandwidth: 15 MHz

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Voltage (Vdc) | CH 20025 (1717.5 MHz) | | CH 20325 (1747.5 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.00 | 1717.5000020 | 0.001 | 1747.5000010 | 0.001 |
| 3.88 | 1717.4999990 | -0.001 | 1747.5000030 | 0.002 |
| 4.55 | 1717.4999970 | -0.002 | 1747.5000040 | 0.002 |

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

| Frequency Stability Versus Temperature | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|
| Temperature (°C) | CH 20025 (1717.5 MHz) | | CH 20325 (1747.5 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 1717.4999980 | -0.001 | 1747.5000010 | 0.001 |
| -20 | 1717.5000010 | 0.001 | 1747.4999960 | -0.002 |
| -10 | 1717.4999990 | -0.001 | 1747.5000040 | 0.002 |
| 0 | 1717.4999960 | -0.002 | 1747.4999980 | -0.001 |
| 10 | 1717.5000000 | 0.000 | 1747.5000040 | 0.002 |
| 20 | 1717.5000040 | 0.002 | 1747.4999960 | -0.002 |
| 30 | 1717.4999970 | -0.002 | 1747.4999990 | -0.001 |
| 40 | 1717.5000020 | 0.001 | 1747.5000020 | 0.001 |
| 50 | 1717.5000020 | 0.001 | 1747.4999970 | -0.002 |

LTE Band 4, Channel Bandwidth: 20 MHz

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|---------------------|-----------------------|---------------------|-----------------------|
| Voltage (Vdc) | CH 20050 (1720 MHz) | | CH 20300 (1745 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.00 | 1719.9999960 | -0.002 | 1745.0000030 | 0.002 |
| 3.88 | 1720.0000040 | 0.002 | 1745.0000040 | 0.002 |
| 4.55 | 1719.9999990 | -0.001 | 1744.9999980 | -0.001 |

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

| Frequency Stability Versus Temperature | | | | |
|--|---------------------|-----------------------|---------------------|-----------------------|
| Temperature (°C) | CH 20050 (1720 MHz) | | CH 20300 (1745 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 1720.0000010 | 0.001 | 1745.0000020 | 0.001 |
| -20 | 1719.9999960 | -0.002 | 1745.0000010 | 0.001 |
| -10 | 1719.9999980 | -0.001 | 1745.0000030 | 0.002 |
| 0 | 1720.0000010 | 0.001 | 1744.9999970 | -0.002 |
| 10 | 1720.0000010 | 0.001 | 1745.0000010 | 0.001 |
| 20 | 1720.0000010 | 0.001 | 1745.0000010 | 0.001 |
| 30 | 1720.0000040 | 0.002 | 1745.0000020 | 0.001 |
| 40 | 1719.9999960 | -0.002 | 1745.0000020 | 0.001 |
| 50 | 1719.9999980 | -0.001 | 1744.9999960 | -0.002 |

7.8.3 LTE Band 12

LTE Band 12, Channel Bandwidth: 1.4 MHz

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc) | CH 23017 (699.7 MHz) | | CH 23173 (715.3 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.00 | 699.7000030 | 0.004 | 715.3000010 | 0.001 |
| 3.88 | 699.7000020 | 0.003 | 715.2999970 | -0.004 |
| 4.55 | 699.6999980 | -0.003 | 715.3000010 | 0.001 |

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

| Frequency Stability Versus Temperature | | | | |
|--|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C) | CH 23017 (699.7 MHz) | | CH 23173 (715.3 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 699.7000030 | 0.004 | 715.2999970 | -0.004 |
| -20 | 699.6999990 | -0.001 | 715.2999970 | -0.004 |
| -10 | 699.7000010 | 0.001 | 715.3000020 | 0.003 |
| 0 | 699.7000010 | 0.001 | 715.3000030 | 0.004 |
| 10 | 699.6999990 | -0.001 | 715.2999960 | -0.006 |
| 20 | 699.7000020 | 0.003 | 715.2999990 | -0.001 |
| 30 | 699.7000010 | 0.001 | 715.2999970 | -0.004 |
| 40 | 699.6999980 | -0.003 | 715.2999990 | -0.001 |
| 50 | 699.6999990 | -0.001 | 715.2999990 | -0.001 |

LTE Band 12, Channel Bandwidth: 3 MHz

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc) | CH 23025 (700.5 MHz) | | CH 23165 (714.5 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.00 | 700.4999980 | -0.003 | 714.5000040 | 0.006 |
| 3.88 | 700.4999970 | -0.004 | 714.4999980 | -0.003 |
| 4.55 | 700.5000000 | 0.000 | 714.5000020 | 0.003 |

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

| Frequency Stability Versus Temperature | | | | |
|--|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C) | CH 23025 (700.5 MHz) | | CH 23165 (714.5 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 700.4999980 | -0.003 | 714.4999980 | -0.003 |
| -20 | 700.4999970 | -0.004 | 714.4999990 | -0.001 |
| -10 | 700.5000040 | 0.006 | 714.5000030 | 0.004 |
| 0 | 700.4999990 | -0.001 | 714.5000040 | 0.006 |
| 10 | 700.5000020 | 0.003 | 714.4999970 | -0.004 |
| 20 | 700.4999970 | -0.004 | 714.5000040 | 0.006 |
| 30 | 700.5000020 | 0.003 | 714.4999970 | -0.004 |
| 40 | 700.4999970 | -0.004 | 714.5000010 | 0.001 |
| 50 | 700.5000010 | 0.001 | 714.4999960 | -0.006 |

LTE Band 12, Channel Bandwidth: 5 MHz

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| Voltage (Vdc) | CH 23035 (701.5 MHz) | | CH 23155 (713.5 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.00 | 701.4999990 | -0.001 | 713.4999980 | -0.003 |
| 3.88 | 701.5000020 | 0.003 | 713.4999960 | -0.006 |
| 4.55 | 701.4999980 | -0.003 | 713.5000010 | 0.001 |

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

| Frequency Stability Versus Temperature | | | | |
|--|----------------------|-----------------------|----------------------|-----------------------|
| Temperature (°C) | CH 23035 (701.5 MHz) | | CH 23155 (713.5 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 701.5000020 | 0.003 | 713.5000030 | 0.004 |
| -20 | 701.5000010 | 0.001 | 713.4999990 | -0.001 |
| -10 | 701.5000030 | 0.004 | 713.4999990 | -0.001 |
| 0 | 701.5000040 | 0.006 | 713.5000030 | 0.004 |
| 10 | 701.5000040 | 0.006 | 713.4999970 | -0.004 |
| 20 | 701.4999960 | -0.006 | 713.5000010 | 0.001 |
| 30 | 701.4999990 | -0.001 | 713.4999960 | -0.006 |
| 40 | 701.5000010 | 0.001 | 713.4999960 | -0.006 |
| 50 | 701.4999990 | -0.001 | 713.4999960 | -0.006 |

LTE Band 12, Channel Bandwidth: 10 MHz

| Frequency Stability Versus Voltage | | | | |
|------------------------------------|--------------------|-----------------------|--------------------|-----------------------|
| Voltage (Vdc) | CH 23060 (704 MHz) | | CH 23130 (711 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| 3.00 | 704.0000010 | 0.001 | 711.0000040 | 0.006 |
| 3.88 | 703.9999990 | -0.001 | 711.0000010 | 0.001 |
| 4.55 | 703.9999970 | -0.004 | 710.9999960 | -0.006 |

Note: The applicant defined the normal working voltage is from 3.00 to 4.55 Vdc.

| Frequency Stability Versus Temperature | | | | |
|--|--------------------|-----------------------|--------------------|-----------------------|
| Temperature (°C) | CH 23060 (704 MHz) | | CH 23130 (711 MHz) | |
| | Frequency (MHz) | Frequency Error (ppm) | Frequency (MHz) | Frequency Error (ppm) |
| -30 | 703.9999970 | -0.004 | 710.9999970 | -0.004 |
| -20 | 703.9999970 | -0.004 | 710.9999990 | -0.001 |
| -10 | 704.0000020 | 0.003 | 710.9999990 | -0.001 |
| 0 | 704.0000040 | 0.006 | 710.9999960 | -0.006 |
| 10 | 704.0000010 | 0.001 | 711.0000020 | 0.003 |
| 20 | 703.9999980 | -0.003 | 710.9999990 | -0.001 |
| 30 | 703.9999960 | -0.006 | 710.9999980 | -0.003 |
| 40 | 703.9999990 | -0.001 | 711.0000010 | 0.001 |
| 50 | 704.0000030 | 0.004 | 711.0000030 | 0.004 |

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

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

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

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