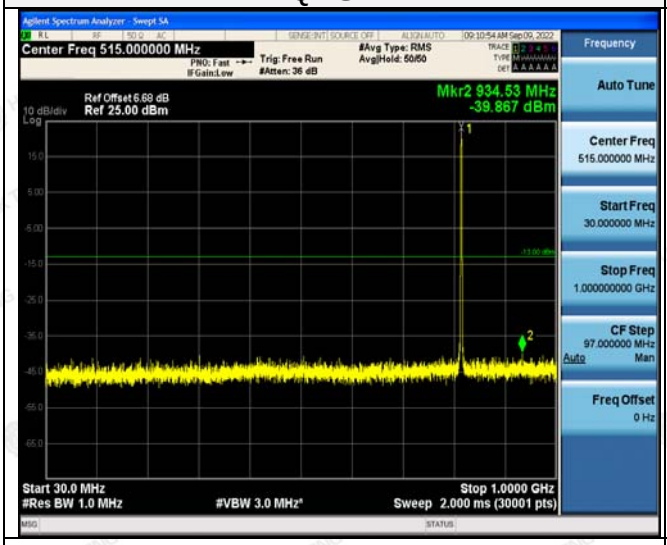
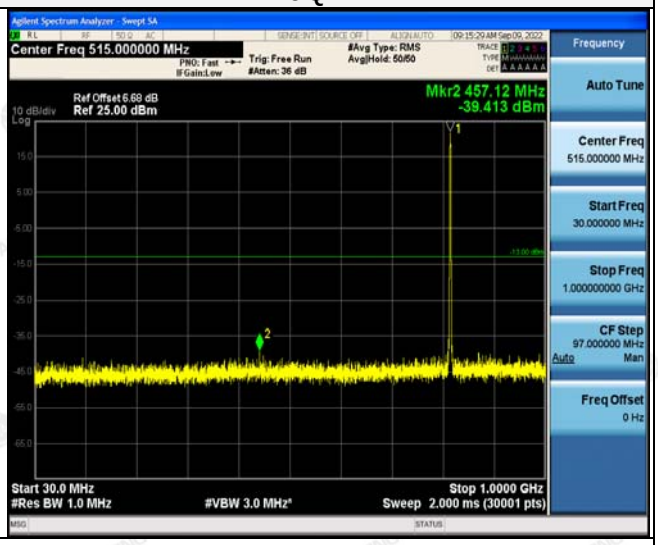
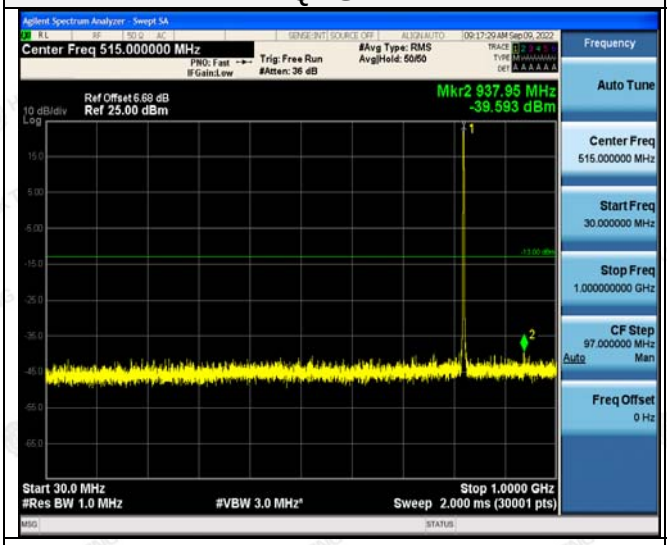
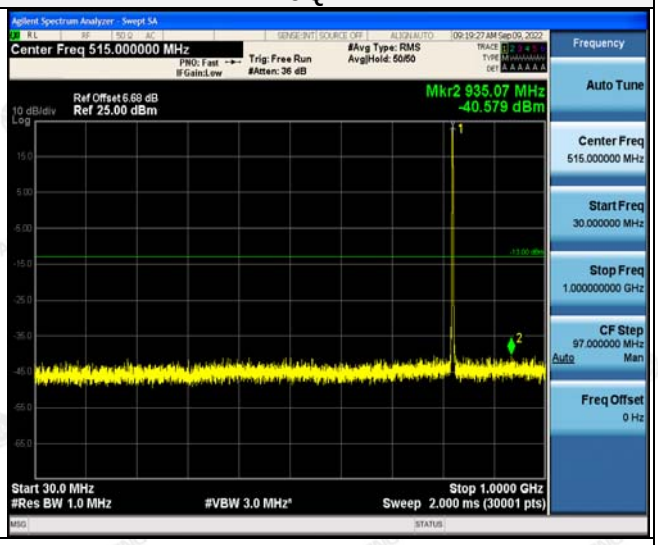
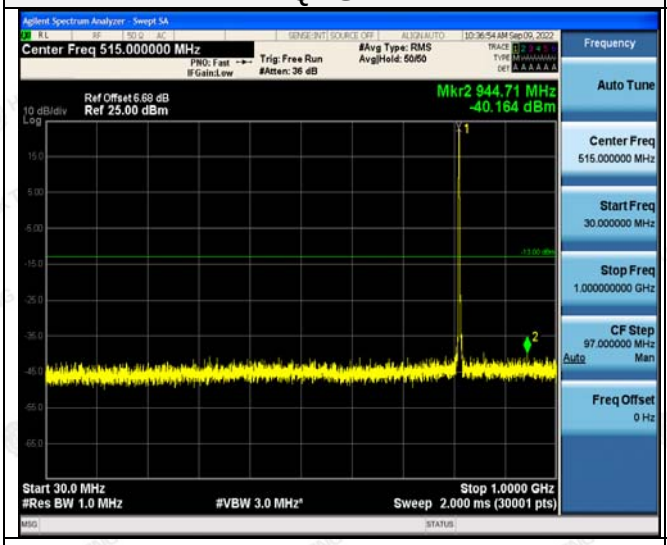
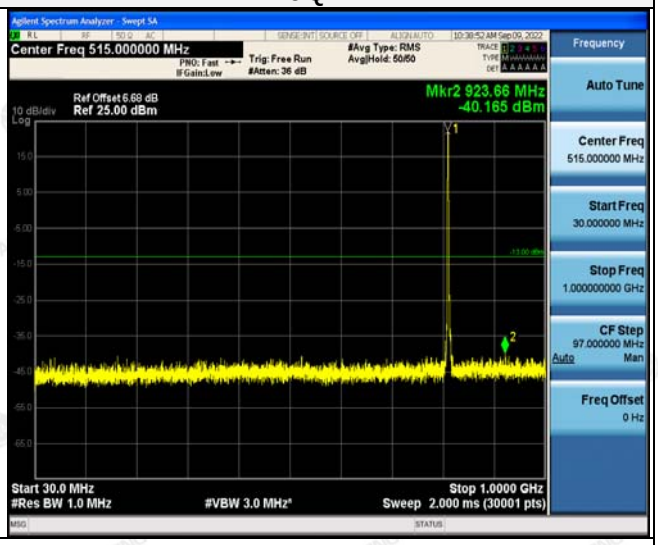
| | |
|---|---|
|  |  |
| *5GHz~12GHz* | *5GHz~12GHz* |
|  |  |
| *12GHz~26.5GHz*<br>*1RB#0* | *12GHz~26.5GHz*<br>*1RB#0* |

| *LTE FDD Band 26-1.4MHz Channel Bandwidth* | |
|---|---|
| *Middle Channel* | |
| *QPSK* | *16QAM* |
|  |  |
| *30MHz~1GHz* | *30MHz~1GHz* |
|  |  |
| *1GHz~5GHz* | *1GHz~5GHz* |

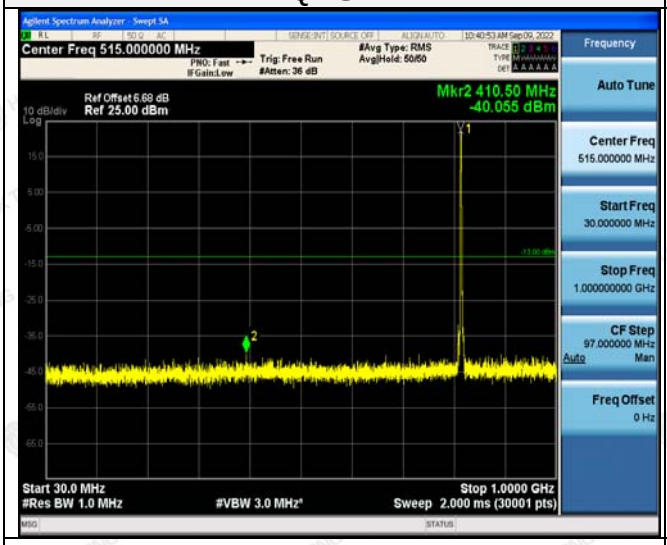
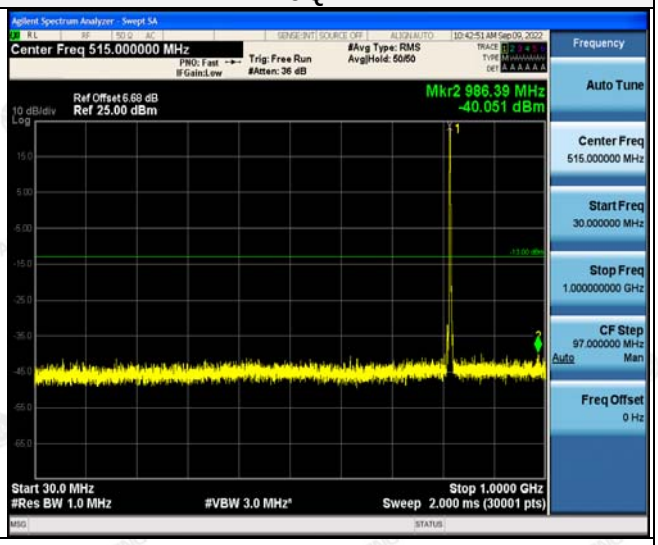
| | |
|---|---|
|  |  |
| *5GHz~12GHz* | *5GHz~12GHz* |
|  |  |
| *12GHz~26.5GHz*<br>*1RB#0* | *12GHz~26.5GHz*<br>*1RB#0* |

| LTE FDD Band 26-1.4MHz Channel Bandwidth | |
|---|---|
| High Channel | |
| QPSK | 16QAM |
|  |  |
| 30MHz~1GHz | 30MHz~1GHz |
|  |  |
| 1GHz~5GHz | 1GHz~5GHz |

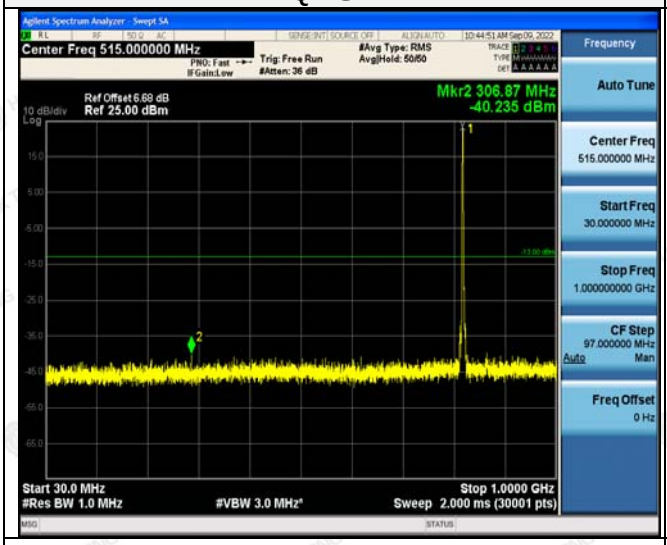
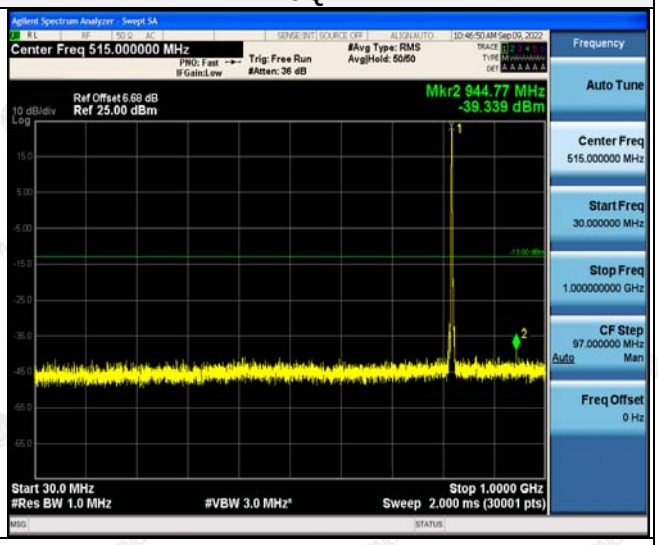
| | |
|---|---|
|  |  |
| *5GHz~12GHz* | *5GHz~12GHz* |
|  |  |
| *12GHz~26.5GHz* | *12GHz~26.5GHz* |
| *1RB#0* | *1RB#0* |

| LTE FDD Band 26-3MHz Channel Bandwidth | |
|---|---|
| Low Channel | |
| QPSK | 16QAM |
|  |  |
| 30MHz~1GHz | 30MHz~1GHz |
|  |  |
| 1GHz~5GHz | 1GHz~5GHz |

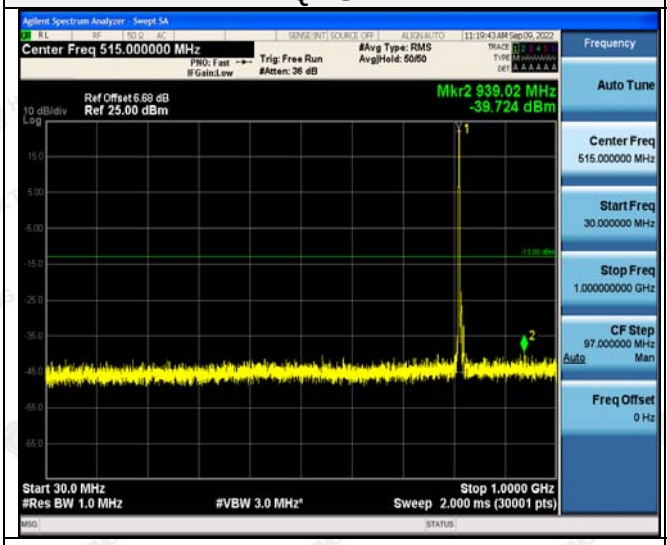
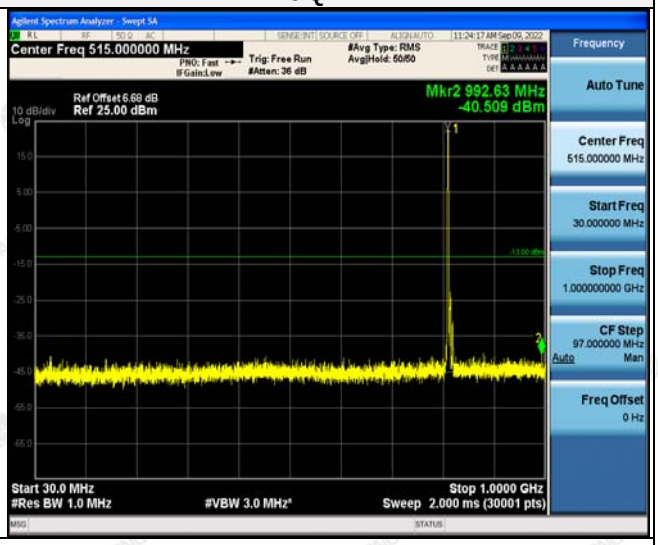
| | |
|---|---|
|  |  |
| *5GHz~12GHz* | *5GHz~12GHz* |
|  |  |
| *12GHz~26.5GHz*<br>*1RB#0* | *12GHz~26.5GHz*<br>*1RB#0* |

| *LTE FDD Band 26-3MHz Channel Bandwidth* | |
|---|---|
| *Middle Channel* | |
| *QPSK* | *16QAM* |
|  |  |
| *30MHz~1GHz* | *30MHz~1GHz* |
|  |  |
| *1GHz~5GHz* | *1GHz~5GHz* |

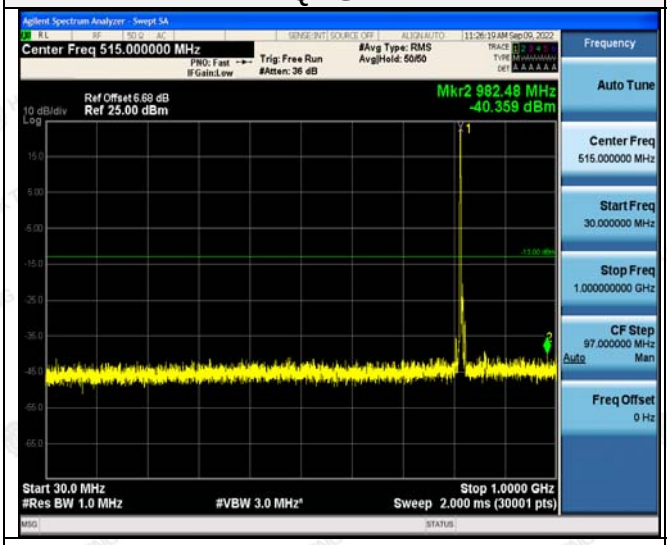
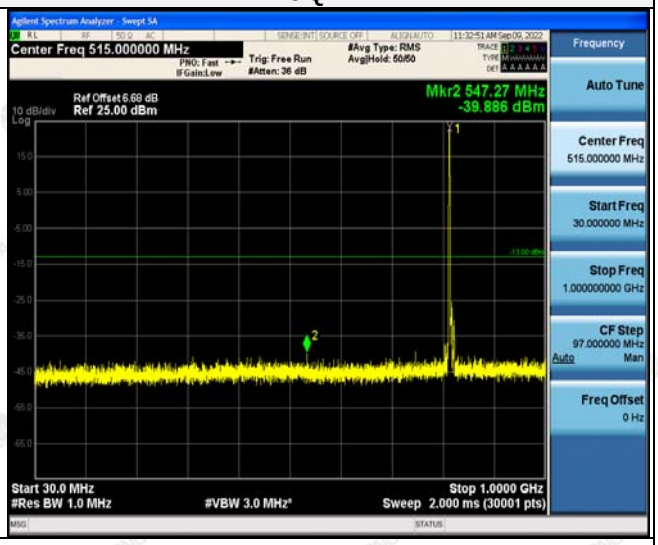
| | |
|---|---|
|  |  |
| *5GHz~12GHz* | *5GHz~12GHz* |
|  |  |
| *12GHz~26.5GHz* | *12GHz~26.5GHz* |
| *1RB#0* | *1RB#0* |

| LTE FDD Band 26-3MHz Channel Bandwidth | |
|---|---|
| High Channel | |
| QPSK | 16QAM |
|  |  |
| 30MHz~1GHz | 30MHz~1GHz |
|  |  |
| 1GHz~5GHz | 1GHz~5GHz |

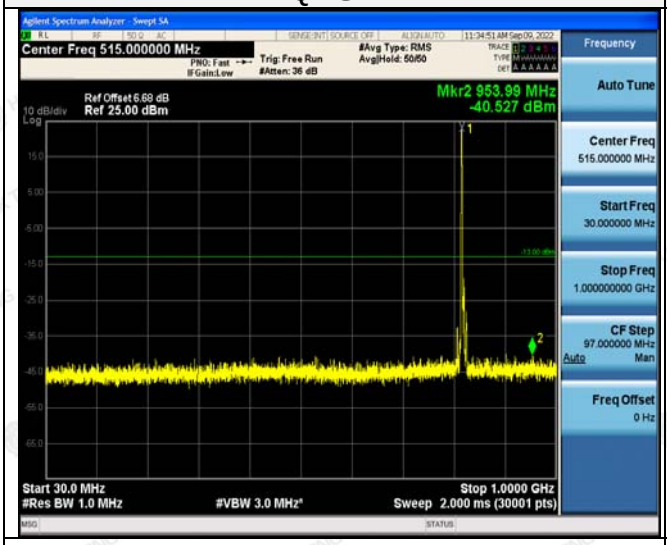
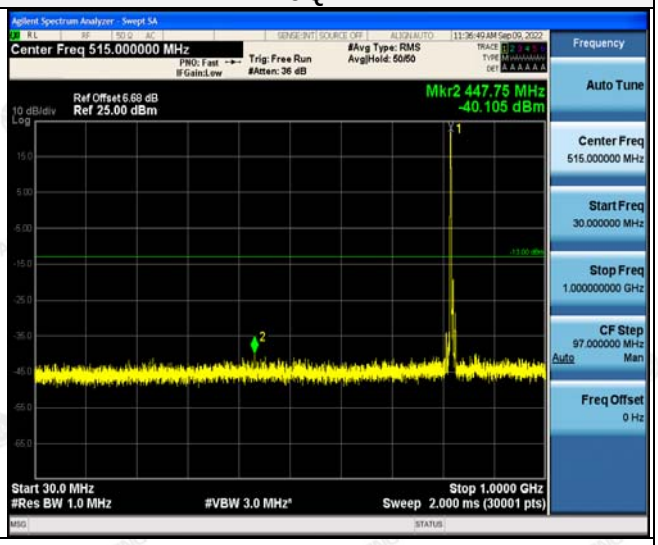
| | |
|---|---|
|  |  |
| *5GHz~12GHz* | *5GHz~12GHz* |
|  |  |
| *12GHz~26.5GHz* | *12GHz~26.5GHz* |
| *1RB#0* | *1RB#0* |

| LTE FDD Band 26-5MHz Channel Bandwidth | |
|---|---|
| Low Channel | |
| QPSK | 16QAM |
|  |  |
| 30MHz~1GHz | 30MHz~1GHz |
|  |  |
| 1GHz~5GHz | 1GHz~5GHz |

| | |
|---|---|
|  |  |
| *5GHz~12GHz* | *5GHz~12GHz* |
|  |  |
| *12GHz~26.5GHz*<br>*1RB#0* | *12GHz~26.5GHz*<br>*1RB#0* |

| *LTE FDD Band 26-5MHz Channel Bandwidth* | |
|---|---|
| *Middle Channel* | |
| *QPSK* | *16QAM* |
|  |  |
| *30MHz~1GHz* | *30MHz~1GHz* |
|  |  |
| *1GHz~5GHz* | *1GHz~5GHz* |

| | |
|---|---|
|  |  |
| *5GHz~12GHz* | *5GHz~12GHz* |
|  |  |
| *12GHz~26.5GHz* | *12GHz~26.5GHz* |
| *1RB#0* | *1RB#0* |

| LTE FDD Band 26-5MHz Channel Bandwidth | |
|---|---|
| High Channel | |
| QPSK | 16QAM |
|  |  |
| 30MHz~1GHz | 30MHz~1GHz |
|  |  |
| 1GHz~5GHz | 1GHz~5GHz |


5GHz~12GHz

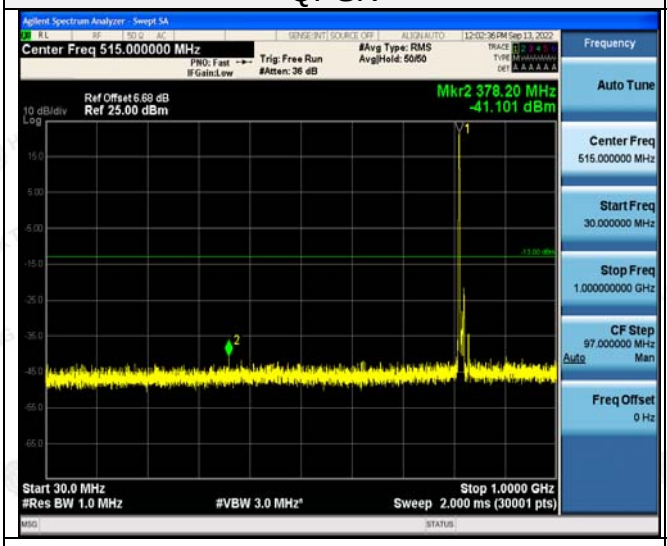
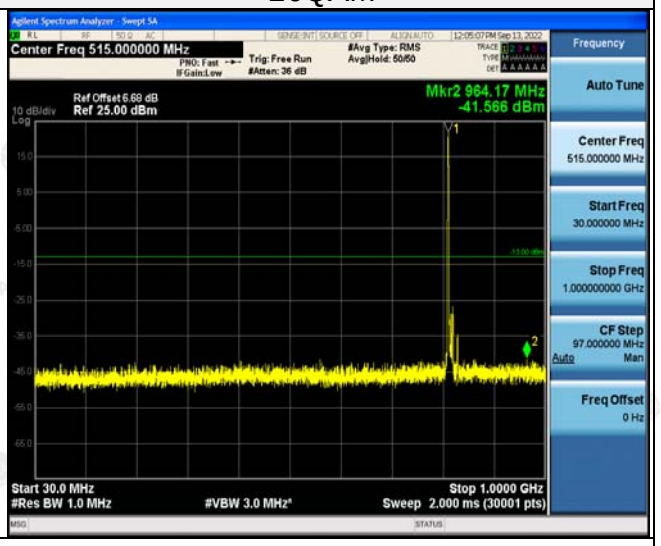

5GHz~12GHz


12GHz~26.5GHz

1RB#0


12GHz~26.5GHz

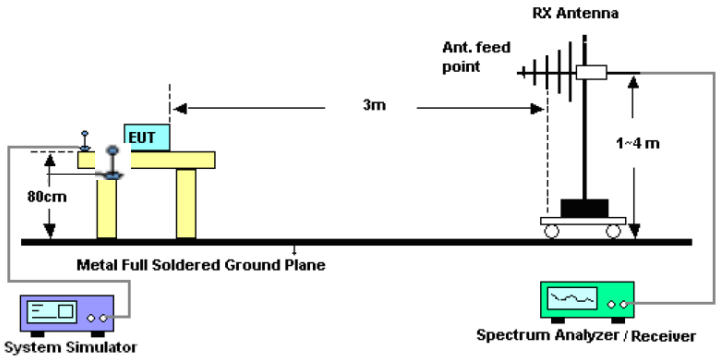
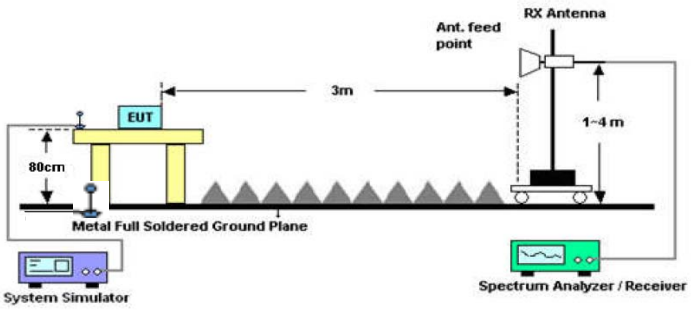
1RB#0

| LTE FDD Band 26-10MHz Channel Bandwidth | |
|---|---|
| QPSK | 16QAM |
|  |  |
| 30MHz~1GHz | 30MHz~1GHz |
|  |  |
| 1GHz~5GHz | 1GHz~5GHz |

| | |
|---|---|
|  |  |
| *5GHz~12GHz* | *5GHz~12GHz* |
|  |  |
| *12GHz~26.5GHz*<br>*1RB#0* | *12GHz~26.5GHz*<br>*1RB#0* |

## 5.5. Field Strength of Spurious Radiation Measurement

### 5.5.1. Test Specification

| | |
|---|---|
| **Test Requirement:** | FCC part90.691 |
| **Test Method:** | FCC part 2.1053 |
| **Limit:** | 30MHz~20GHz -13dBm |
| **Test setup:** | From 30MHz to 1GHz<br>  <br><br>Above 1GHz<br>  <br> |
| **Test Procedure:** | 1. The testing follows FCC KDB 971168 D01v03 Section 5.8 and ANSI / TIA-603-D-2010Section 2.2.12.<br>2. The EUT was placed on a rotatable wooden table 0.8 meters above the ground.<br>3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.<br>4. The table was rotated 360 degrees to determine the position of the highest spurious emission.<br>5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations. |

| | |
|---|---|
| | 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.<br>7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.<br><br>8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.<br>9. Taking the record of output power at antenna port.<br>10. Repeat step 7 to step 8 for another polarization.<br>11. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain<br>12. ERP (dBm) = EIRP - 2.15<br>13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. |
| **Test results:** | PASS |

**Radiated Measurement:**

*Remark:*

1. *We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 26; recorded worst case for each Channel Bandwidth of LTE FDD Band 26.*
2. *EIRP=$P_{Mea}$(dBm)-$P_{cl}$(dB) +$G_a$(dBi)*
3. *We were not recorded other points as values lower than limits.*
4. *Margin = Limit - EIRP*

*LTE FDD Band 26_Channel Bandwidth 1.4MHz_QPSK_ Low Channel*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1629.4 | -35 | 2.86 | 3.00 | 7.25 | -30.61 | -13.00 | 17.61 | H |
| 2444.1 | -42.6 | 2.94 | 3.00 | 9.53 | -36.01 | -13.00 | 23.01 | H |
| 1629.4 | -45 | 2.86 | 3.00 | 7.25 | -40.61 | -13.00 | 27.61 | V |
| 2444.1 | -47.07 | 2.94 | 3.00 | 9.53 | -40.48 | -13.00 | 27.48 | V |

*LTE FDD Band 26_Channel Bandwidth 1.4MHz_QPSK_ Middle Channel*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1638 | -40.9 | 2.86 | 3.00 | 7.82 | -35.94 | -13.00 | 22.94 | H |
| 2457 | -44.28 | 2.94 | 3.00 | 9.35 | -37.87 | -13.00 | 24.87 | H |
| 1638 | -49.69 | 2.86 | 3.00 | 7.82 | -44.73 | -13.00 | 31.73 | V |
| 2457 | -53.47 | 2.94 | 3.00 | 9.35 | -47.06 | -13.00 | 34.06 | V |

*LTE FDD Band 26_Channel Bandwidth 1.4MHz_QPSK_ High Channel*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1646.6 | -40.9 | 2.86 | 3.00 | 7.82 | -35.94 | -13.00 | 22.94 | H |
| 2469.9 | -44.28 | 2.94 | 3.00 | 9.35 | -37.87 | -13.00 | 24.87 | H |
| 1646.6 | -49.69 | 2.86 | 3.00 | 7.82 | -44.73 | -13.00 | 31.73 | V |
| 2469.9 | -53.47 | 2.94 | 3.00 | 9.35 | -47.06 | -13.00 | 34.06 | V |

*LTE FDD Band 26_Channel Bandwidth 3MHz_QPSK_ Low Channel*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1631 | -36.39 | 2.86 | 3.00 | 7.25 | -32 | -13.00 | 19 | H |
| 2446.5 | -41.97 | 2.94 | 3.00 | 9.53 | -35.38 | -13.00 | 22.38 | H |
| 1631 | -45.93 | 2.86 | 3.00 | 7.25 | -41.54 | -13.00 | 28.54 | V |
| 2446.5 | -48 | 2.94 | 3.00 | 9.53 | -41.41 | -13.00 | 28.41 | V |

*LTE FDD Band 26_Channel Bandwidth 3MHz_QPSK_ Middle Channel*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1638 | -34.4 | 2.86 | 3.00 | 7.25 | -30.01 | -13.00 | 17.01 | H |
| 2457 | -40.57 | 2.94 | 3.00 | 9.53 | -33.98 | -13.00 | 20.98 | H |
| 1638 | -41.71 | 2.86 | 3.00 | 7.25 | -37.32 | -13.00 | 24.32 | V |
| 2457 | -47.91 | 2.94 | 3.00 | 9.53 | -41.32 | -13.00 | 28.32 | V |

*LTE FDD Band 26_Channel Bandwidth 3MHz_QPSK_ High Channel*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1645 | -40.75 | 2.86 | 3.00 | 7.82 | -35.79 | -13.00 | 22.79 | H |
| 2467.5 | -44.32 | 2.94 | 3.00 | 9.35 | -37.91 | -13.00 | 24.91 | H |
| 1645 | -49.85 | 2.86 | 3.00 | 7.82 | -44.89 | -13.00 | 31.89 | V |
| 2467.5 | -53.52 | 2.94 | 3.00 | 9.35 | -47.11 | -13.00 | 34.11 | V |

*LTE FDD Band 26_Channel Bandwidth 5MHz_QPSK_ Low Channel*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1633 | -34.6 | 2.86 | 3.00 | 7.25 | -30.21 | -13.00 | 17.21 | H |
| 2449.5 | -42.78 | 2.94 | 3.00 | 9.53 | -36.19 | -13.00 | 23.19 | H |
| 1633 | -44.57 | 2.86 | 3.00 | 7.25 | -40.18 | -13.00 | 27.18 | V |
| 2449.5 | -47.67 | 2.94 | 3.00 | 9.53 | -41.08 | -13.00 | 28.08 | V |

*LTE FDD Band 26_Channel Bandwidth 5MHz_QPSK_ Middle Channel*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1638 | -33.58 | 2.86 | 3.00 | 7.25 | -29.19 | -13.00 | 16.19 | H |
| 2457 | -40.02 | 2.94 | 3.00 | 9.53 | -33.43 | -13.00 | 20.43 | H |
| 1638 | -41.95 | 2.86 | 3.00 | 7.25 | -37.56 | -13.00 | 24.56 | V |
| 2457 | -49.91 | 2.94 | 3.00 | 9.53 | -43.32 | -13.00 | 30.32 | V |

*LTE FDD Band 26_Channel Bandwidth 5MHz_QPSK_ High Channel*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1643 | -41.44 | 2.86 | 3.00 | 7.82 | -36.48 | -13.00 | 23.48 | H |
| 2464.5 | -44.89 | 2.94 | 3.00 | 9.35 | -38.48 | -13.00 | 25.48 | H |
| 1643 | -49.89 | 2.86 | 3.00 | 7.82 | -44.93 | -13.00 | 31.93 | V |
| 2464.5 | -53.04 | 2.94 | 3.00 | 9.35 | -46.63 | -13.00 | 33.63 | V |

*LTE FDD Band 26_Channel Bandwidth 10MHz_QPSK*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1638 | -33.23 | 2.86 | 3.00 | 7.25 | -28.84 | -13.00 | 15.84 | H |
| 2457 | -39.41 | 2.94 | 3.00 | 9.53 | -32.82 | -13.00 | 19.82 | H |
| 1638 | -41.64 | 2.86 | 3.00 | 7.25 | -37.25 | -13.00 | 24.25 | V |
| 2457 | -49.08 | 2.94 | 3.00 | 9.53 | -42.49 | -13.00 | 29.49 | V |

*LTE FDD Band 26_Channel Bandwidth 1.4MHz_16QAM _ Low Channel*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1629.4 | -35.52 | 2.86 | 3.00 | 7.25 | -31.13 | -13.00 | 18.13 | H |
| 2444.1 | -42.58 | 2.94 | 3.00 | 9.53 | -35.99 | -13.00 | 22.99 | H |
| 1629.4 | -44.1 | 2.86 | 3.00 | 7.25 | -39.71 | -13.00 | 26.71 | V |
| 2444.1 | -47.11 | 2.94 | 3.00 | 9.53 | -40.52 | -13.00 | 27.52 | V |

*LTE FDD Band 26_Channel Bandwidth 1.4MHz_16QAM _ Middle Channel*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1638 | -34.31 | 2.86 | 3.00 | 7.25 | -29.92 | -13.00 | 16.92 | H |
| 2457 | -39.8 | 2.94 | 3.00 | 9.53 | -33.21 | -13.00 | 20.21 | H |
| 1638 | -41.07 | 2.86 | 3.00 | 7.25 | -36.68 | -13.00 | 23.68 | V |
| 2457 | -48.65 | 2.94 | 3.00 | 9.53 | -42.06 | -13.00 | 29.06 | V |

*LTE FDD Band 26_Channel Bandwidth 1.4MHz_16QAM _ High Channel*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1646.6 | -41.3 | 2.86 | 3.00 | 7.82 | -36.34 | -13.00 | 23.34 | H |
| 2469.9 | -44.32 | 2.94 | 3.00 | 9.35 | -37.91 | -13.00 | 24.91 | H |
| 1646.6 | -49.96 | 2.86 | 3.00 | 7.82 | -45 | -13.00 | 32 | V |
| 2469.9 | -53.98 | 2.94 | 3.00 | 9.35 | -47.57 | -13.00 | 34.57 | V |

*LTE FDD Band 26_Channel Bandwidth 3MHz_16QAM _ Low Channel*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1631 | -35.51 | 2.86 | 3.00 | 7.25 | -31.12 | -13.00 | 18.12 | H |
| 2446.5 | -43.33 | 2.94 | 3.00 | 9.53 | -36.74 | -13.00 | 23.74 | H |
| 1631 | -44.26 | 2.86 | 3.00 | 7.25 | -39.87 | -13.00 | 26.87 | V |
| 2446.5 | -48.1 | 2.94 | 3.00 | 9.53 | -41.51 | -13.00 | 28.51 | V |

*LTE FDD Band 26_Channel Bandwidth 3MHz_16QAM _ Middle Channel*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1638 | -34.82 | 2.86 | 3.00 | 7.25 | -30.43 | -13.00 | 17.43 | H |
| 2457 | -39.88 | 2.94 | 3.00 | 9.53 | -33.29 | -13.00 | 20.29 | H |
| 1638 | -41.31 | 2.86 | 3.00 | 7.25 | -36.92 | -13.00 | 23.92 | V |
| 2457 | -49.01 | 2.94 | 3.00 | 9.53 | -42.42 | -13.00 | 29.42 | V |

*LTE FDD Band 26_Channel Bandwidth 3MHz_16QAM _ High Channel*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1645 | -40.79 | 2.86 | 3.00 | 7.82 | -35.83 | -13.00 | 22.83 | H |
| 2467.5 | -44.61 | 2.94 | 3.00 | 9.35 | -38.2 | -13.00 | 25.2 | H |
| 1645 | -49.07 | 2.86 | 3.00 | 7.82 | -44.11 | -13.00 | 31.11 | V |
| 2467.5 | -53.81 | 2.94 | 3.00 | 9.35 | -47.4 | -13.00 | 34.4 | V |

*LTE FDD Band 26_Channel Bandwidth 5MHz_16QAM _ Low Channel*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | Peak EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1633 | -35.14 | 2.86 | 3.00 | 7.25 | -30.75 | -13.00 | 17.75 | H |
| 2449.5 | -42.52 | 2.94 | 3.00 | 9.53 | -35.93 | -13.00 | 22.93 | H |
| 1633 | -45.19 | 2.86 | 3.00 | 7.25 | -40.8 | -13.00 | 27.8 | V |
| 2449.5 | -48.58 | 2.94 | 3.00 | 9.53 | -41.99 | -13.00 | 28.99 | V |

*LTE FDD Band 26_Channel Bandwidth 5MHz_16QAM _ Middle Channel*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1638 | -34.17 | 2.86 | 3.00 | 7.25 | -29.78 | -13.00 | 16.78 | H |
| 2457 | -40.02 | 2.94 | 3.00 | 9.53 | -33.43 | -13.00 | 20.43 | H |
| 1638 | -40.6 | 2.86 | 3.00 | 7.25 | -36.21 | -13.00 | 23.21 | V |
| 2457 | -50.17 | 2.94 | 3.00 | 9.53 | -43.58 | -13.00 | 30.58 | V |

*LTE FDD Band 26_Channel Bandwidth 5MHz_16QAM _ High Channel*

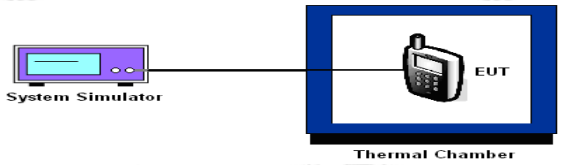
| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1643 | -40.56 | 2.86 | 3.00 | 7.82 | -35.6 | -13.00 | 22.6 | H |
| 2464.5 | -44.92 | 2.94 | 3.00 | 9.35 | -38.51 | -13.00 | 25.51 | H |
| 1643 | -49.02 | 2.86 | 3.00 | 7.82 | -44.06 | -13.00 | 31.06 | V |
| 2464.5 | -54 | 2.94 | 3.00 | 9.35 | -47.59 | -13.00 | 34.59 | V |

*LTE FDD Band 26_Channel Bandwidth 10MHz_16QAM*

| Frequency (MHz) | $P_{Mea}$ (dBm) | $P_{cl}$ (dB) | Diatance | $G_a$ Antenna Gain(dB) | EIRP (dBm) | Limit (dBm) | Margin (dB) | Polarization |
|---|---|---|---|---|---|---|---|---|
| 1638 | -33.16 | 2.86 | 3.00 | 7.25 | -28.77 | -13.00 | 15.77 | H |
| 2457 | -40.32 | 2.94 | 3.00 | 9.53 | -33.73 | -13.00 | 20.73 | H |
| 1638 | -41.25 | 2.86 | 3.00 | 7.25 | -36.86 | -13.00 | 23.86 | V |
| 2457 | -49.61 | 2.94 | 3.00 | 9.53 | -43.02 | -13.00 | 30.02 | V |

## 5.6. Frequency Stability Measurement

### 5.6.1. Test Specification

| | |
|---|---|
| **Test Requirement:** | FCC part 90.213 |
| **Test Method:** | FCC Part 2.1055 |
| **Limit:** | ±2.5 ppm |
| **Test Setup:** |  |
| **Test Procedure:** | **Test Procedures for Temperature Variation**<br>1. The testing follows FCC KDB 971168 D01v03 Section 9.0.<br>2. The EUT was set up in the thermal chamber and connected with the system simulator.<br>3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.<br>4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.<br>**Test Procedures for Voltage Variation**<br>1. The testing follows FCC KDB 971168 D01v03 Section 9.0.<br>2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.<br>3. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.<br>4. The variation in frequency was measured for the worst case. |
| **Test Result:** | PASS |

## TEST RESULTS

*Remark:*
*1. We tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 26; recorded worst case.*

LTE Band 26, 1.4MHz bandwidth (worst case of all bandwidths)

***Frequency Error vs Voltage***

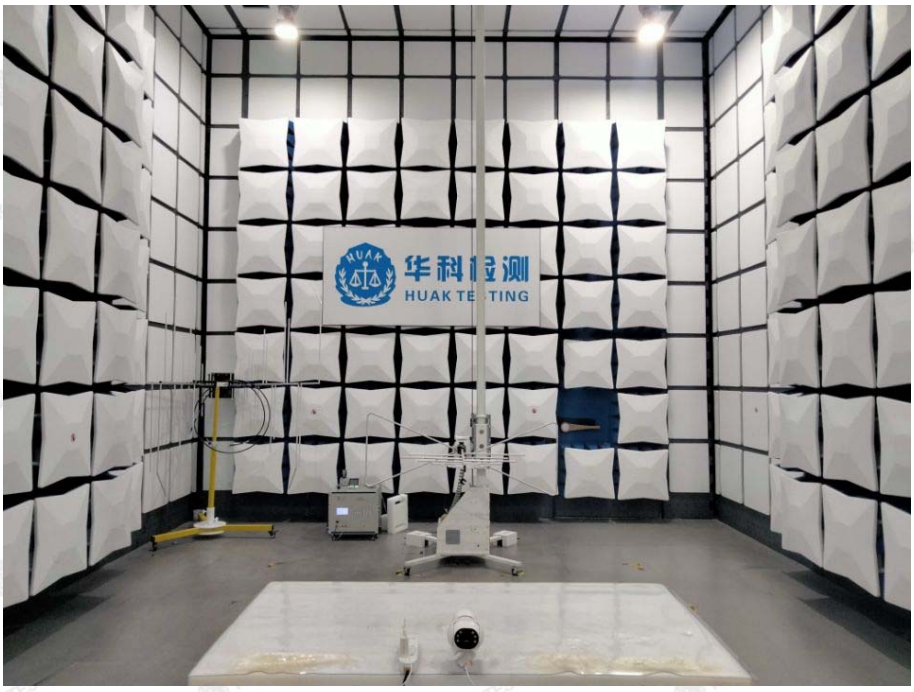
| Voltage (V) | Frequency error (Hz) | | Frequency error (ppm) | | Limit (ppm) |
|---|---|---|---|---|---|
| | QPSK | 16QAM | QPSK | 16QAM | |
| 4.25 | 1.36 | 1.54 | 0.001669 | 0.001890 | 2.50 |
| 5.0 | -2.09 | 2.06 | -0.002565 | 0.002529 | 2.50 |
| 5.75 | 2.89 | 1.83 | 0.003547 | 0.002246 | 2.50 |

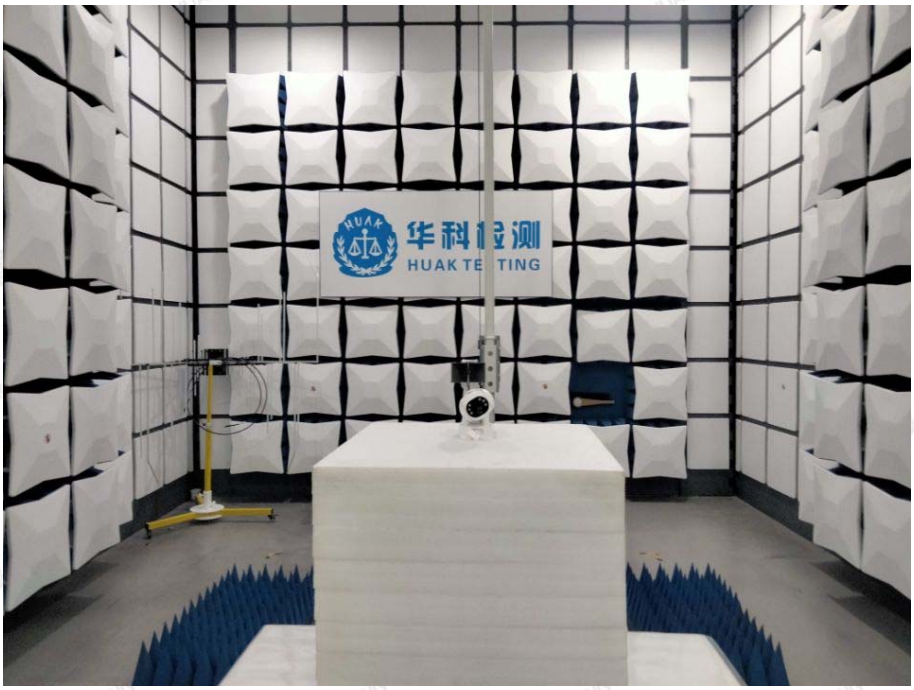
***Frequency Error vs Temperature***

| Temperature (℃) | Frequency error (Hz) | | Frequency error (ppm) | | Limit (ppm) |
|---|---|---|---|---|---|
| | QPSK | 16QAM | QPSK | 16QAM | |
| -30° | 2.37 | -1.95 | 0.002909 | -0.002394 | 2.50 |
| -20° | -1.67 | -2.00 | -0.002050 | -0.002455 | 2.50 |
| -10° | 2.53 | -2.52 | 0.003105 | -0.003093 | 2.50 |
| 0° | 2.73 | -1.97 | 0.003351 | -0.002418 | 2.50 |
| 10° | -1.83 | -2.20 | -0.002246 | -0.002700 | 2.50 |
| 20° | 2.93 | 1.80 | 0.003596 | 0.002209 | 2.50 |
| 30° | -3.10 | -1.67 | -0.003785 | -0.002039 | 2.50 |
| 40° | 2.16 | -3.08 | 0.002637 | -0.003761 | 2.50 |
| 50° | -2.85 | -3.05 | -0.003480 | -0.003724 | 2.50 |

# 6. PHOTOGRAPHS OF TEST SETUP

Radiated Emission



# 7. PHOTOGRAPHS OF EUT

Refer to test report ANNEX A of external photos and ANNEX B of internal photos

***.....End of Report.....***



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