



Frequency Stability

| Test Conditions | | LTE Band 42C (QPSK) / Middle Channel | Limit |
|------------------|-------------------|--------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 20+20MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0018 | PASS |
| 40 | Normal Voltage | 0.0025 | |
| 30 | Normal Voltage | 0.0027 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0009 | |
| 0 | Normal Voltage | 0.0015 | |
| -10 | Normal Voltage | 0.0029 | |
| -20 | Normal Voltage | 0.0023 | |
| -30 | Normal Voltage | 0.0026 | |
| 20 | Maximum Voltage | 0.0033 | |
| 20 | Normal Voltage | 0.0041 | |
| 20 | Battery End Point | 0.0037 | |

Note:

1. Normal Voltage =3.88 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.27 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

| | | | |
|-----------------|---------------|---------------------|---------|
| Test Engineer : | Zhaohui Liang | Temperature : | 22~25°C |
| | | Relative Humidity : | 48~52% |

Note: Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

| LTE Band 42 / 20MHz / QPSK / RB Size 1 Offset 0(Ant.10) | | | | | | | | | |
|---|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 6982.00 | -58.83 | -13 | -45.83 | -65.57 | -62.13 | 8.30 | 11.60 | H |
| | 10473.00 | -56.54 | -13 | -43.54 | -68.40 | -58.06 | 10.48 | 12.00 | H |
| | 13964.00 | -56.26 | -13 | -43.26 | -70.05 | -57.96 | 11.80 | 13.50 | H |
| | 6982.00 | -58.80 | -13 | -45.80 | -65.91 | -62.10 | 8.30 | 11.60 | V |
| | 10473.00 | -54.09 | -13 | -41.09 | -68.16 | -55.61 | 10.48 | 12.00 | V |
| | 13964.00 | -57.26 | -13 | -44.26 | -70.20 | -58.96 | 11.80 | 13.50 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 42C / 20MHz+20MHz / QPSK / RB Size 1 Offset 0(Ant.10) | | | | | | | | | |
|--|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | SPA Reading (dBm) | S.G. Power (dBm) | TX Cable loss (dB) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 7115.00 | -57.86 | -13 | -44.86 | -65.26 | -61.16 | 8.30 | 11.60 | H |
| | 10672.50 | -55.11 | -13 | -42.11 | -67.66 | -56.63 | 10.48 | 12.00 | H |
| | 14230.00 | -55.10 | -13 | -42.10 | -69.15 | -56.80 | 11.80 | 13.50 | H |
| | 7115.00 | -56.55 | -13 | -43.55 | -65.27 | -59.85 | 8.30 | 11.60 | V |
| | 10672.50 | -52.78 | -13 | -39.78 | -67.81 | -54.30 | 10.48 | 12.00 | V |
| | 14230.00 | -56.43 | -13 | -43.43 | -69.88 | -58.13 | 11.80 | 13.50 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.