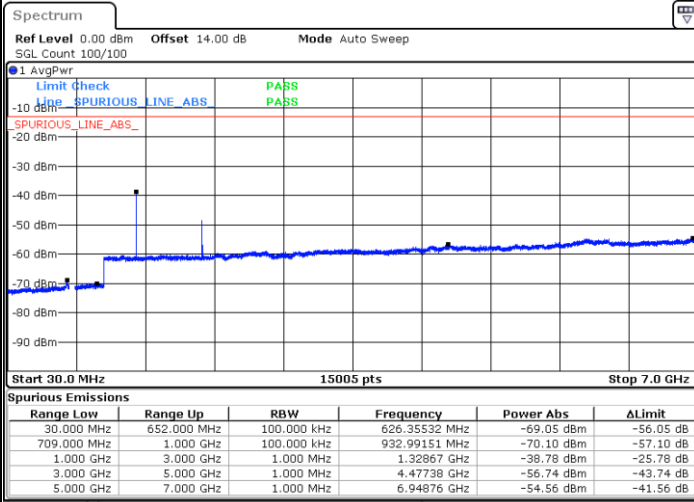




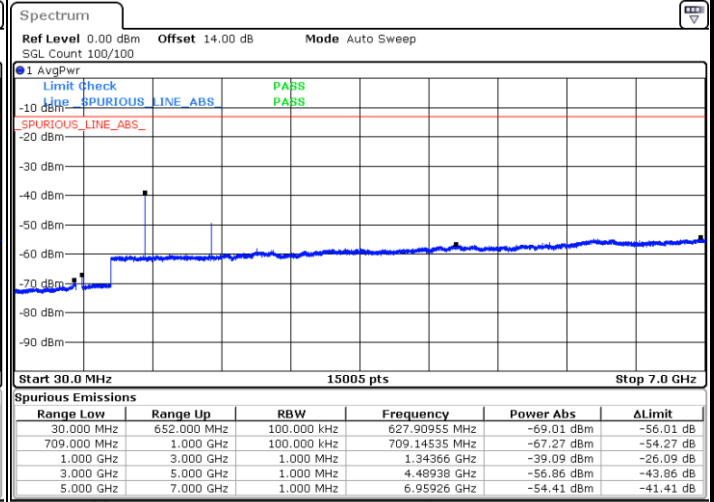
LTE Band 71 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

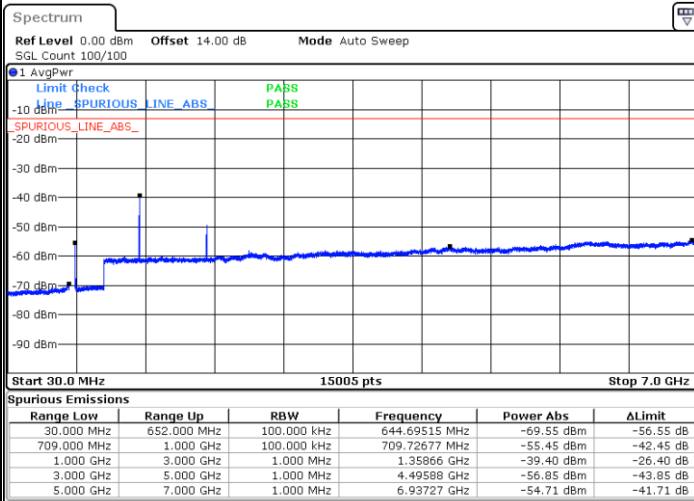


Date: 12.AUG.2021 12:34:29



Date: 12.AUG.2021 12:36:21

Highest Channel / 64QAM



Date: 12.AUG.2021 12:42:20



Frequency Stability

| Test Conditions | | LTE Band 71 (QPSK) / Middle Channel | Limit |
|------------------|-------------------|-------------------------------------|---------|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0044 | PASS |
| 40 | Normal Voltage | 0.0229 | |
| 30 | Normal Voltage | 0.0241 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0209 | |
| 0 | Normal Voltage | 0.0231 | |
| -10 | Normal Voltage | 0.0220 | |
| -20 | Normal Voltage | 0.0012 | |
| -30 | Normal Voltage | 0.0043 | |
| 20 | Maximum Voltage | 0.0234 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0010 | |

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

For Ant1:

| LTE Band 12 / 10MHz / 16QAM | | | | | | | | | |
|-----------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (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 | 1406 | -64.09 | -13 | -51.09 | -73.29 | -67.34 | 4.00 | 9.40 | H |
| | 2109 | -63.53 | -13 | -50.53 | -75.28 | -67.10 | 4.88 | 10.60 | H |
| | 2812 | -62.37 | -13 | -49.37 | -76.67 | -67.30 | 5.52 | 12.60 | H |
| | 1406 | -64.42 | -13 | -51.42 | -73.27 | -67.67 | 4.00 | 9.40 | V |
| | 2109 | -62.94 | -13 | -49.94 | -75.18 | -66.51 | 4.88 | 10.60 | V |
| | 2812 | -62.55 | -13 | -49.55 | -76.57 | -67.48 | 5.52 | 12.60 | V |

| LTE Band 13 / 5MHz / 16QAM | | | | | | | | | |
|----------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (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 | 1559.5 | -65.20 | -42.15 | -23.05 | -73.92 | -68.45 | 4.00 | 9.40 | H |
| | 2339.25 | -62.63 | -13 | -49.63 | -75.92 | -66.20 | 4.88 | 10.60 | H |
| | 3119 | -60.59 | -13 | -47.59 | -76.00 | -65.52 | 5.52 | 12.60 | H |
| | 1559.5 | -65.13 | -42.15 | -22.98 | -73.93 | -68.38 | 4.00 | 9.40 | V |
| | 2339.25 | -62.65 | -13 | -49.65 | -75.94 | -66.22 | 4.88 | 10.60 | V |
| | 3119 | -60.66 | -13 | -47.66 | -76.11 | -65.59 | 5.52 | 12.60 | V |

| LTE Band 13 / 10MHz / QPSK | | | | | | | | | |
|----------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (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 | 1559.5 | -65.81 | -42.15 | -23.66 | -74.53 | -69.06 | 4.00 | 9.40 | H |
| | 2339.25 | -63.10 | -13 | -50.10 | -76.39 | -66.67 | 4.88 | 10.60 | H |
| | 3119 | -61.48 | -13 | -48.48 | -76.89 | -66.41 | 5.52 | 12.60 | H |
| | 1559.5 | -65.77 | -42.15 | -23.62 | -74.57 | -69.02 | 4.00 | 9.40 | V |
| | 2339.25 | -62.56 | -13 | -49.56 | -75.85 | -66.13 | 4.88 | 10.60 | V |
| | 3119 | -61.29 | -13 | -48.29 | -76.74 | -66.22 | 5.52 | 12.60 | V |



| LTE Band 25 / 20MHz / QPSK | | | | | | | | | |
|----------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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 | 3747 | -59.27 | -13 | -46.27 | -75.99 | -66.02 | 5.85 | 12.60 | H |
| | 5620.5 | -47.79 | -13 | -34.79 | -67.94 | -53.59 | 7.30 | 13.10 | H |
| | 7494 | -53.97 | -13 | -40.97 | -78.67 | -57.12 | 8.35 | 11.50 | H |
| | 3747 | -59.64 | -13 | -46.64 | -76.29 | -66.39 | 5.85 | 12.60 | V |
| | 5620.5 | -45.95 | -13 | -32.95 | -65.82 | -51.75 | 7.30 | 13.10 | V |
| | 7494 | -53.97 | -13 | -40.97 | -78.66 | -57.12 | 8.35 | 11.50 | V |

| LTE Band 26 / 15MHz / 16QAM | | | | | | | | | |
|-----------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (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 | 1659.5 | -65.29 | -13 | -52.29 | -73.96 | -68.54 | 4.00 | 9.40 | H |
| | 2489.25 | -61.40 | -13 | -48.40 | -74.23 | -64.97 | 4.88 | 10.60 | H |
| | 3319 | -61.99 | -13 | -48.99 | -76.71 | -66.92 | 5.52 | 12.60 | H |
| | 1659.5 | -65.37 | -13 | -52.37 | -73.64 | -68.62 | 4.00 | 9.40 | V |
| | 2489.25 | -62.78 | -13 | -49.78 | -75.57 | -66.35 | 4.88 | 10.60 | V |
| | 3319 | -62.34 | -13 | -49.34 | -76.84 | -67.27 | 5.52 | 12.60 | V |

| LTE Band 66 / 20MHz / 16QAM | | | | | | | | | |
|-----------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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 | 3472 | -50.34 | -13 | -37.34 | -65.72 | -57.19 | 5.65 | 12.50 | H |
| | 5208 | -50.86 | -13 | -37.86 | -70.19 | -56.53 | 7.13 | 12.80 | H |
| | 6944 | -54.89 | -13 | -41.89 | -78.82 | -58.29 | 8.40 | 11.80 | H |
| | 3472 | -52.28 | -13 | -39.28 | -67.68 | -59.13 | 5.65 | 12.50 | V |
| | 5208 | -54.48 | -13 | -41.48 | -74.06 | -60.15 | 7.13 | 12.80 | V |
| | 6944 | -54.73 | -13 | -41.73 | -79.13 | -58.13 | 8.40 | 11.80 | V |

| LTE Band 71 / 20MHz / QPSK | | | | | | | | | |
|----------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (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 | 1343 | -64.92 | -13 | -51.92 | -73.26 | -68.17 | 4.00 | 9.40 | H |
| | 2014.5 | -64.42 | -13 | -51.42 | -74.57 | -67.99 | 4.88 | 10.60 | H |
| | 2686 | -59.27 | -13 | -46.27 | -72.84 | -64.20 | 5.52 | 12.60 | H |
| | 1343 | -64.92 | -13 | -51.92 | -72.89 | -68.17 | 4.00 | 9.40 | V |
| | 2014.5 | -64.57 | -13 | -51.57 | -74.61 | -68.14 | 4.88 | 10.60 | V |
| | 2686 | -59.41 | -13 | -46.41 | -73.00 | -64.34 | 5.52 | 12.60 | V |

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



For Ant2:

| LTE Band 12 / 10MHz / QPSK | | | | | | | | | |
|----------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (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 | 1406 | -63.30 | -13 | -50.30 | -72.50 | -66.55 | 4.00 | 9.40 | H |
| | 2109 | -62.53 | -13 | -49.53 | -74.28 | -66.10 | 4.88 | 10.60 | H |
| | 2812 | -62.02 | -13 | -49.02 | -76.32 | -66.95 | 5.52 | 12.60 | H |
| | 1406 | -64.00 | -13 | -51.00 | -72.85 | -67.25 | 4.00 | 9.40 | V |
| | 2109 | -62.22 | -13 | -49.22 | -74.46 | -65.79 | 4.88 | 10.60 | V |
| | 2812 | -62.30 | -13 | -49.30 | -76.32 | -67.23 | 5.52 | 12.60 | V |

| LTE Band 25 / 20MHz / 16QAM | | | | | | | | | |
|-----------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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 | 3747 | -58.69 | -13 | -45.69 | -75.41 | -65.44 | 5.85 | 12.60 | H |
| | 5620.5 | -49.03 | -13 | -36.03 | -69.18 | -54.83 | 7.30 | 13.10 | H |
| | 7494 | -54.59 | -13 | -41.59 | -79.29 | -57.74 | 8.35 | 11.50 | H |
| | 3747 | -59.56 | -13 | -46.56 | -76.21 | -66.31 | 5.85 | 12.60 | V |
| | 5620.5 | -48.28 | -13 | -35.28 | -68.15 | -54.08 | 7.30 | 13.10 | V |
| | 7494 | -54.63 | -13 | -41.63 | -79.32 | -57.78 | 8.35 | 11.50 | V |

| LTE Band 26 / 15MHz / 16QAM | | | | | | | | | |
|-----------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (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 | 1659.5 | -65.52 | -13 | -52.52 | -74.19 | -68.77 | 4.00 | 9.40 | H |
| | 2489.25 | -63.18 | -13 | -50.18 | -76.01 | -66.75 | 4.88 | 10.60 | H |
| | 3319 | -62.23 | -13 | -49.23 | -76.95 | -67.16 | 5.52 | 12.60 | H |
| | 1659.5 | -66.02 | -13 | -53.02 | -74.29 | -69.27 | 4.00 | 9.40 | V |
| | 2489.25 | -59.69 | -13 | -46.69 | -72.48 | -63.26 | 4.88 | 10.60 | V |
| | 3319 | -62.38 | -13 | -49.38 | -76.88 | -67.31 | 5.52 | 12.60 | V |

| LTE Band 71 / 20MHz / QPSK | | | | | | | | | |
|----------------------------|-------------------|-------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel | Frequency (MHz) | ERP (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 | 1343 | -61.59 | -13 | -48.59 | -69.93 | -64.84 | 4.00 | 9.40 | H |
| | 2014.5 | -64.72 | -13 | -51.72 | -74.87 | -68.29 | 4.88 | 10.60 | H |
| | 2686 | -61.35 | -13 | -48.35 | -74.92 | -66.28 | 5.52 | 12.60 | H |
| | 1343 | -62.54 | -13 | -49.54 | -70.51 | -65.79 | 4.00 | 9.40 | V |
| | 2014.5 | -65.01 | -13 | -52.01 | -75.05 | -68.58 | 4.88 | 10.60 | V |
| | 2686 | -61.61 | -13 | -48.61 | -75.20 | -66.54 | 5.52 | 12.60 | V |

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