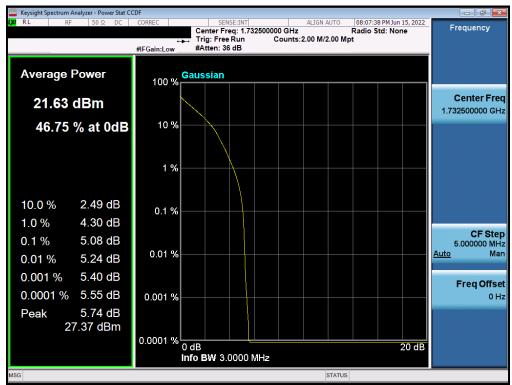


Plot 7-93. PAR Plot (LTE Band 4 - 5MHz 64-QAM - Full RB)



Plot 7-94. PAR Plot (LTE Band 4 - 3MHz QPSK - Full RB)

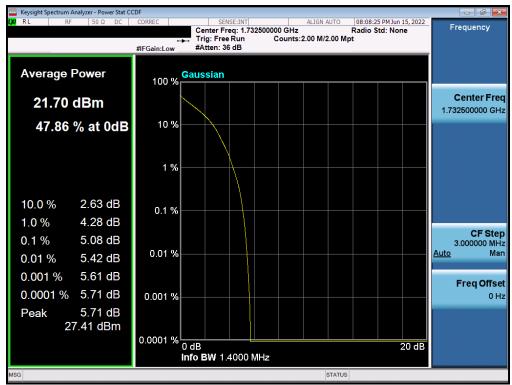


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| © 2022 ELEMENT | | | V3.0 1/5/2022 |

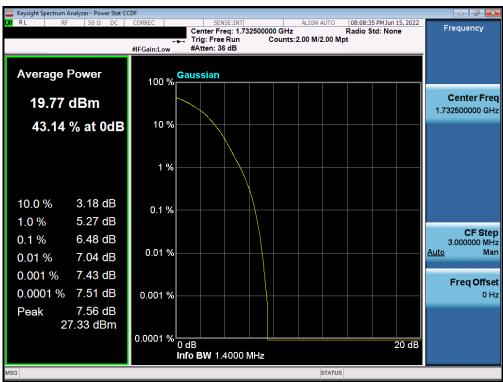
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Plot 7-95. PAR Plot (LTE Band 4 - 3MHz 64-QAM - Full RB)



Plot 7-96. PAR Plot (LTE Band 4 - 1.4MHz QPSK - Full RB)



Plot 7-97. PAR Plot (LTE Band 4 - 1.4MHz 64-QAM - Full RB)

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7.6 Radiated Power (ERP/EIRP)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63,26-2015 - Section 5,2,4,4

Test Settings

- 1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
- 2. RBW = 1 5% of the expected OBW, not to exceed 1MHz
- 3. VBW \geq 3 x RBW
- 4. Span = 1.5 times the OBW
- 5. No. of sweep points $\geq 2 \times \text{span} / \text{RBW}$
- 6. Detector = RMS
- 7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
- 8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
- 9. Trace mode = trace averaging (RMS) over 100 sweeps
- 10. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

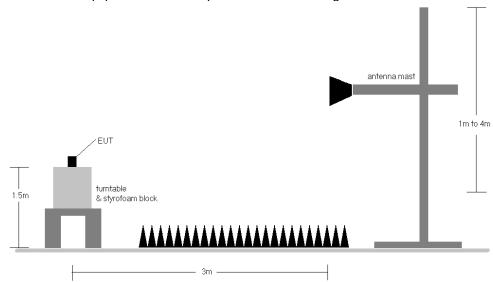


Figure 7-5. Radiated Test Setup <1GHz

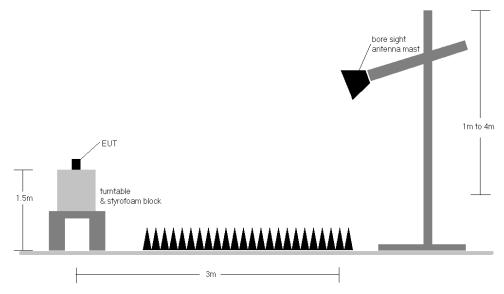


Figure 7-6. Radiated Test Setup >1GHz

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.

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| Bandwidth | Mod. | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|----------------------|--------------------|--------------------|---------------------------|----------------------------------|--------------------|-------------------|---------------------------|---------------|-----------------|---------------------|----------------|
| | QPSK | 1720.0 | Н | 138 | 152 | 9.47 | 1 / 50 | 13.33 | 22.80 | 0.190 | 30.00 | -7.20 |
| 20 MHz | QPSK | 1732.5 | Н | 130 | 145 | 9.49 | 1 / 50 | 13.22 | 22.71 | 0.186 | 30.00 | -7.29 |
| ZU WITZ | QPSK | 1745.0 | Н | 129 | 145 | 9.48 | 1 / 50 | 12.99 | 22.47 | 0.177 | 30.00 | -7.53 |
| | 16-QAM | 1720.0 | Н | 138 | 152 | 9.47 | 1 / 50 | 12.98 | 22.45 | 0.176 | 30.00 | -7.55 |
| | QPSK | 1717.5 | Н | 138 | 152 | 9.49 | 1 / 37 | 13.08 | 22.57 | 0.181 | 30.00 | -7.43 |
| 15 MHz | QPSK | 1732.5 | Н | 130 | 145 | 9.49 | 1 / 37 | 13.03 | 22.52 | 0.179 | 30.00 | -7.48 |
| 15 MILZ | QPSK | 1747.5 | Н | 129 | 145 | 9.47 | 1 / 37 | 13.03 | 22.50 | 0.178 | 30.00 | -7.50 |
| | 16-QAM | 1717.5 | Н | 138 | 152 | 9.49 | 1 / 37 | 12.84 | 22.33 | 0.171 | 30.00 | -7.67 |
| | QPSK | 1715.0 | Н | 138 | 152 | 9.52 | 1 / 25 | 13.26 | 22.78 | 0.190 | 30.00 | -7.22 |
| 10 MHz | QPSK | 1732.5 | Н | 130 | 145 | 9.49 | 1 / 25 | 13.28 | 22.77 | 0.189 | 30.00 | -7.23 |
| 10 MITZ | QPSK | 1750.0 | Н | 129 | 145 | 9.47 | 1 / 25 | 13.30 | 22.77 | 0.189 | 30.00 | -7.23 |
| | 16-QAM | 1732.5 | Н | 130 | 145 | 9.49 | 1 / 25 | 12.70 | 22.19 | 0.166 | 30.00 | -7.81 |
| | QPSK | 1712.5 | Н | 138 | 152 | 9.54 | 1 / 12 | 13.05 | 22.59 | 0.182 | 30.00 | -7.41 |
| 5 MHz | QPSK | 1732.5 | Н | 130 | 145 | 9.49 | 1 / 12 | 13.49 | 22.98 | 0.199 | 30.00 | -7.02 |
| 3 111112 | QPSK | 1752.5 | Н | 129 | 145 | 9.46 | 1 / 12 | 13.22 | 22.68 | 0.185 | 30.00 | -7.32 |
| | 16-QAM | 1712.5 | Н | 138 | 152 | 9.54 | 1 / 12 | 12.66 | 22.21 | 0.166 | 30.00 | -7.79 |
| | QPSK | 1711.5 | Н | 138 | 152 | 9.55 | 1/7 | 13.11 | 22.66 | 0.185 | 30.00 | -7.34 |
| 3 MHz | QPSK | 1732.5 | Н | 130 | 145 | 9.49 | 1 / 7 | 13.36 | 22.85 | 0.193 | 30.00 | -7.15 |
| 3 WI 12 | QPSK | 1753.5 | Н | 129 | 145 | 9.46 | 1 / 7 | 13.16 | 22.62 | 0.183 | 30.00 | -7.38 |
| | 16-QAM | 1753.5 | Н | 129 | 145 | 9.46 | 1 / 7 | 12.76 | 22.22 | 0.167 | 30.00 | -7.78 |
| | QPSK | 1710.7 | Н | 138 | 152 | 9.56 | 1/3 | 13.08 | 22.64 | 0.184 | 30.00 | -7.36 |
| 1.4 MHz | QPSK | 1732.5 | Н | 130 | 145 | 9.49 | 1/3 | 13.26 | 22.75 | 0.188 | 30.00 | -7.25 |
| 1.4 WITZ | QPSK | 1754.3 | Н | 129 | 145 | 9.46 | 1/3 | 13.17 | 22.63 | 0.183 | 30.00 | -7.37 |
| | 16-QAM | 1732.5 | Н | 130 | 145 | 9.49 | 1/3 | 12.72 | 22.21 | 0.166 | 30.00 | -7.79 |
| | QPSK (Opposite Pol.) | 1720.0 | V | 119 | 358 | 9.33 | 1 / 50 | 10.55 | 19.88 | 0.097 | 30.00 | -10.12 |
| 20 MHz | QPSK (CLOSED) | 1720.0 | V | 145 | 333 | 9.33 | 1 / 50 | 12.19 | 21.52 | 0.142 | 30.00 | -8.48 |
| | QPSK (WCP) | 1720.0 | Н | 128 | 161 | 9.47 | 1 / 50 | 11.19 | 20.66 | 0.116 | 30.00 | -9.34 |

Table 7-2. EIRP Data (LTE Band 4)

| Bandwidth | Mod. | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] | ERP [dBm] | ERP [Watts] | ERP Limit | Margin [dB] |
|-----------|----------------------|--------------------|--------------------|---------------------------|----------------------------------|--------------------|-------------------|---------------------------|---------------|-----------------|---------------------|----------------|-----------|----------------|-----------|----------------|
| Z | QPSK | 704.0 | Н | 142 | 337 | 3.48 | 1/0 | 13.60 | 17.08 | 0.051 | 36.99 | -19.91 | 14.93 | 0.031 | 34.77 | -19.84 |
| MHz | QPSK | 707.5 | Н | 131 | 329 | 3.52 | 1 / 49 | 13.77 | 17.29 | 0.054 | 36.99 | -19.70 | 15.14 | 0.033 | 34.77 | -19.63 |
| 5 | QPSK | 711.0 | Н | 132 | 330 | 3.57 | 1 / 49 | 13.87 | 17.44 | 0.055 | 36.99 | -19.55 | 15.29 | 0.034 | 34.77 | -19.48 |
| _ | 16-QAM | 711.0 | Н | 132 | 330 | 3.57 | 1 / 49 | 13.19 | 16.76 | 0.047 | 36.99 | -20.23 | 14.61 | 0.029 | 34.77 | -20.16 |
| N | QPSK | 701.5 | Н | 142 | 337 | 3.45 | 1 / 24 | 13.74 | 17.19 | 0.052 | 36.99 | -19.80 | 15.04 | 0.032 | 34.77 | -19.73 |
| MHz | QPSK | 707.5 | Н | 131 | 329 | 3.52 | 1 / 12 | 13.69 | 17.21 | 0.053 | 36.99 | -19.78 | 15.06 | 0.032 | 34.77 | -19.71 |
| 2 | QPSK | 713.5 | Н | 132 | 330 | 3.70 | 1 / 12 | 13.95 | 17.65 | 0.058 | 36.99 | -19.34 | 15.50 | 0.035 | 34.77 | -19.27 |
| | 16-QAM | 713.5 | Н | 132 | 330 | 3.70 | 1 / 12 | 13.01 | 16.71 | 0.047 | 36.99 | -20.28 | 14.56 | 0.029 | 34.77 | -20.22 |
| N | QPSK | 700.5 | Н | 142 | 337 | 3.39 | 1 / 14 | 13.88 | 17.27 | 0.053 | 36.99 | -19.72 | 15.12 | 0.032 | 34.77 | -19.65 |
| MHz | QPSK | 707.5 | H | 131 | 329 | 3.52 | 1 / 0 | 13.74 | 17.26 | 0.053 | 36.99 | -19.73 | 15.11 | 0.032 | 34.77 | -19.66 |
| 3 | QPSK | 714.5 | H | 132 | 330 | 3.71 | 1 / 7 | 13.90 | 17.61 | 0.058 | 36.99 | -19.38 | 15.46 | 0.035 | 34.77 | -19.31 |
| | 16-QAM | 714.5 | H | 132 | 330 | 3.71 | 1 / 7 | 12.98 | 16.69 | 0.047 | 36.99 | -20.30 | 14.54 | 0.028 | 34.77 | -20.23 |
| Ž. | QPSK | 699.7 | Н | 142 | 337 | 3.33 | 1/3 | 13.91 | 17.23 | 0.053 | 36.99 | -19.76 | 15.08 | 0.032 | 34.77 | -19.69 |
| MHz | QPSK | 707.5 | H | 131 | 329 | 3.52 | 1/3 | 13.71 | 17.24 | 0.053 | 36.99 | -19.75 | 15.09 | 0.032 | 34.77 | -19.68 |
| 4 | QPSK | 715.3 | H | 132 | 330 | 3.72 | 1/3 | 13.78 | 17.50 | 0.056 | 36.99 | -19.49 | 15.35 | 0.034 | 34.77 | -19.42 |
| | 16-QAM | 699.7 | H | 142 | 337 | 3.33 | 1/3 | 13.28 | 16.60 | 0.046 | 36.99 | -20.39 | 14.45 | 0.028 | 34.77 | -20.32 |
| | QPSK (Opposite Pol.) | 711.0 | V | 158 | 151 | 3.67 | 1/0 | 12.28 | 15.95 | 0.039 | 36.99 | -21.04 | 13.80 | 0.024 | 34.77 | -20.97 |
| 10 MHz | QPSK (Half Open) | 711.0 | Н | 283 | 309 | 3.57 | 1 / 49 | 12.79 | 16.36 | 0.043 | 36.99 | -20.63 | 14.21 | 0.026 | 34.77 | -20.56 |
| | QPSK (WCP) | 711.0 | Н | 130 | 162 | 3.57 | 1 / 49 | 10.74 | 14.31 | 0.027 | 36.99 | -22.68 | 12.16 | 0.016 | 34.77 | -22.61 |

Table 7-3. ERP Data (LTE Band 12 - Ant A + ANT B)

| Bandwidth | Mod. | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|--------------|---------------|--------------------|--------------------|---------------------------|----------------------------------|--------------------|-------------------|---------------------------|---------------|-----------------|---------------------|----------------|-----------|----------------|--------------------|----------------|
| Z | QPSK | 704.0 | V | 172 | 218 | 3.58 | 1/0 | 11.12 | 14.70 | 0.030 | 36.99 | -22.29 | 12.55 | 0.018 | 34.77 | -22.22 |
| MHz | QPSK | 707.5 | V | 152 | 223 | 3.62 | 1 / 49 | 10.43 | 14.05 | 0.025 | 36.99 | -22.94 | 11.90 | 0.016 | 34.77 | -22.87 |
| 0 | QPSK | 711.0 | V | 148 | 188 | 3.67 | 1 / 49 | 10.80 | 14.47 | 0.028 | 36.99 | -22.52 | 12.32 | 0.017 | 34.77 | -22.45 |
| - | 16-QAM | 704.0 | V | 172 | 218 | 3.58 | 1/0 | 10.28 | 13.86 | 0.024 | 36.99 | -23.13 | 11.71 | 0.015 | 34.77 | -23.06 |
| | QPSK | 701.5 | V | 172 | 218 | 3.55 | 1 / 24 | 11.26 | 14.81 | 0.030 | 36.99 | -22.18 | 12.66 | 0.018 | 34.77 | -22.11 |
| MHz | QPSK | 707.5 | V | 152 | 223 | 3.62 | 1 / 12 | 10.35 | 13.97 | 0.025 | 36.99 | -23.02 | 11.82 | 0.015 | 34.77 | -22.95 |
| 2 W | QPSK | 713.5 | V | 148 | 188 | 3.80 | 1 / 12 | 10.88 | 14.68 | 0.029 | 36.99 | -22.31 | 12.53 | 0.018 | 34.77 | -22.24 |
| 47 | 16-QAM | 701.5 | V | 172 | 218 | 3.55 | 1 / 24 | 10.46 | 14.01 | 0.025 | 36.99 | -22.98 | 11.86 | 0.015 | 34.77 | -22.91 |
| N | QPSK | 700.5 | V | 172 | 218 | 3.54 | 1 / 14 | 11.35 | 14.89 | 0.031 | 36.99 | -22.10 | 12.74 | 0.019 | 34.77 | -22.03 |
| MHz | QPSK | 707.5 | V | 152 | 223 | 3.62 | 1/0 | 10.40 | 14.02 | 0.025 | 36.99 | -22.97 | 11.87 | 0.015 | 34.77 | -22.90 |
| 3 № | QPSK | 714.5 | V | 148 | 188 | 3.81 | 1 / 7 | 10.83 | 14.64 | 0.029 | 36.99 | -22.35 | 12.49 | 0.018 | 34.77 | -22.28 |
| \ **/ | 16-QAM | 700.5 | V | 172 | 218 | 3.54 | 1 / 14 | 10.28 | 13.82 | 0.024 | 36.99 | -23.17 | 11.67 | 0.015 | 34.77 | -23.10 |
| Z | QPSK | 699.7 | V | 172 | 218 | 3.53 | 1/3 | 11.33 | 14.85 | 0.031 | 36.99 | -22.14 | 12.70 | 0.019 | 34.77 | -22.07 |
| MHz | QPSK | 707.5 | V | 152 | 223 | 3.62 | 1/3 | 10.37 | 14.00 | 0.025 | 36.99 | -22.99 | 11.85 | 0.015 | 34.77 | -22.92 |
| 4. | QPSK | 715.3 | V | 148 | 188 | 3.85 | 1/3 | 10.68 | 14.53 | 0.028 | 36.99 | -22.46 | 12.38 | 0.017 | 34.77 | -22.39 |
| 7 | 16-QAM | 699.7 | V | 172 | 218 | 3.53 | 1/3 | 10.71 | 14.23 | 0.027 | 36.99 | -22.76 | 12.08 | 0.016 | 34.77 | -22.69 |
| 10 MHz | Opposite Pol. | 704.0 | Н | 131 | 297 | 3.48 | 1 / 49 | 8.25 | 11.73 | 0.015 | 36.99 | -25.26 | 9.58 | 0.009 | 34.77 | -25.19 |
| TO MINZ | WCP | 704.0 | V | 164 | 257 | 3.58 | 1/0 | 8.37 | 11.95 | 0.016 | 36.99 | -25.04 | 9.80 | 0.010 | 34.77 | -24.97 |

Table 7-4. ERP Data (LTE Band 12 - Ant A)

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| Bandwidth | Mod. | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|----------------------|--------------------|--------------------|---------------------------|----------------------------------|--------------------|-------------------|---------------------------|---------------|-----------------|---------------------|----------------|-----------|----------------|--------------------|----------------|
| 10 MHz | QPSK | 782.0 | Н | 241 | 319 | 6.09 | 1 / 25 | 13.94 | 20.03 | 0.101 | 36.99 | -16.96 | 17.88 | 0.061 | 34.77 | -16.89 |
| TO MINZ | 16-QAM | 782.0 | Н | 241 | 319 | 6.09 | 1 / 25 | 13.33 | 19.42 | 0.088 | 36.99 | -17.57 | 17.27 | 0.053 | 34.77 | -17.50 |
| NI. | QPSK | 779.5 | Н | 241 | 319 | 5.97 | 1 / 12 | 13.89 | 19.86 | 0.097 | 36.99 | -17.13 | 17.71 | 0.059 | 34.77 | -17.06 |
| ᆂ | QPSK | 782.0 | Н | 241 | 319 | 6.09 | 1 / 24 | 13.99 | 20.08 | 0.102 | 36.99 | -16.91 | 17.93 | 0.062 | 34.77 | -16.84 |
| 2 | QPSK | 784.5 | Н | 241 | 319 | 6.17 | 1 / 12 | 13.94 | 20.11 | 0.103 | 36.99 | -16.88 | 17.96 | 0.063 | 34.77 | -16.81 |
| | 16-QAM | 779.5 | Н | 241 | 319 | 5.97 | 1 / 12 | 13.67 | 19.63 | 0.092 | 36.99 | -17.36 | 17.48 | 0.056 | 34.77 | -17.29 |
| | QPSK (Opposite Pol.) | 782.0 | V | 152 | 171 | 5.99 | 1 / 49 | 13.01 | 19.00 | 0.079 | 36.99 | -17.99 | 16.85 | 0.048 | 34.77 | -17.92 |
| 10 MHz | QPSK (Half Open) | 782.0 | Н | 236 | 314 | 6.09 | 1/0 | 13.46 | 19.55 | 0.090 | 36.99 | -17.44 | 17.40 | 0.055 | 34.77 | -17.37 |
| | QPSK (WCP) | 782.0 | Н | 202 | 355 | 6.09 | 1 / 49 | 8.23 | 14.32 | 0.027 | 36.99 | -22.67 | 12.17 | 0.016 | 34.77 | -22.60 |

Table 7-5. ERP Data (LTE Band 13 - Ant A + ANT B)

| Bandwidth | Mod. | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|---------------|--------------------|--------------------|---------------------------|----------------------------------|--------------------|-------------------|---------------------------|---------------|-----------------|---------------------|----------------|-----------|----------------|--------------------|----------------|
| 10 MHz | QPSK | 782.0 | V | 146 | 186 | 5.99 | 1 / 25 | 10.83 | 16.82 | 0.048 | 36.99 | -20.17 | 14.67 | 0.029 | 34.77 | -20.10 |
| 10 MHZ | 16-QAM | 782.0 | V | 146 | 186 | 5.99 | 1 / 25 | 10.03 | 16.02 | 0.040 | 36.99 | -20.97 | 13.87 | 0.024 | 34.77 | -20.90 |
| N | QPSK | 779.5 | V | 146 | 186 | 5.97 | 1 / 12 | 10.68 | 16.65 | 0.046 | 36.99 | -20.34 | 14.50 | 0.028 | 34.77 | -20.27 |
| MHz | QPSK | 782.0 | V | 146 | 186 | 5.99 | 1 / 24 | 10.88 | 16.87 | 0.049 | 36.99 | -20.12 | 14.72 | 0.030 | 34.77 | -20.05 |
| 2 ⊻ | QPSK | 784.5 | V | 146 | 186 | 6.07 | 1 / 12 | 10.83 | 16.90 | 0.049 | 36.99 | -20.09 | 14.75 | 0.030 | 34.77 | -20.02 |
| 4, | 16-QAM | 779.5 | V | 146 | 186 | 5.97 | 1 / 12 | 10.27 | 16.23 | 0.042 | 36.99 | -20.76 | 14.08 | 0.026 | 34.77 | -20.69 |
| 10 MHz | Opposite Pol. | 782.0 | Н | 246 | 96 | 6.09 | 1/0 | 9.75 | 15.84 | 0.038 | 36.99 | -21.15 | 13.69 | 0.023 | 34.77 | -21.08 |
| TO MINZ | WCP | 782.0 | V | 137 | 273 | 5.99 | 1/0 | 8.52 | 14.51 | 0.028 | 36.99 | -22.48 | 12.36 | 0.017 | 34.77 | -22.41 |

Table 7-6. ERP Data (LTE Band 13 - Ant A)

| FCC ID: A3LSMF936JPN | | PART 27 MEASUREMENT REPORT | Approved by: Technical Manager | | |
|------------------------------|----------------------------------|----------------------------|-----------------------------------|--|--|
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Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 - Section 5.5.4

Test Settings

- 1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
- 2. VBW ≥ 3 x RBW
- 3. Span = 1.5 times the OBW
- 4. No. of sweep points > 2 x span / RBW
- Detector = RMS
- Trace mode = Average (Max Hold for pulsed emissions)
- 7. The trace was allowed to stabilize

| FCC ID: A3LSMF936JPN | | PART 27 MEASUREMENT REPORT | Approved by: Technical Manager | | |
|----------------------|-----------------|----------------------------|-----------------------------------|--|--|
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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

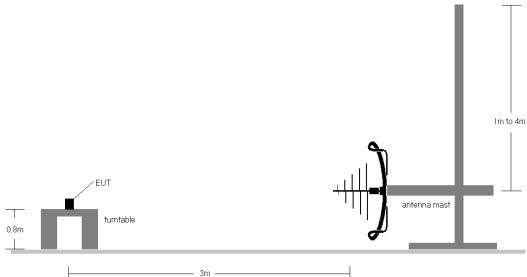


Figure 7-7. Test Instrument & Measurement Setup < 1GHz

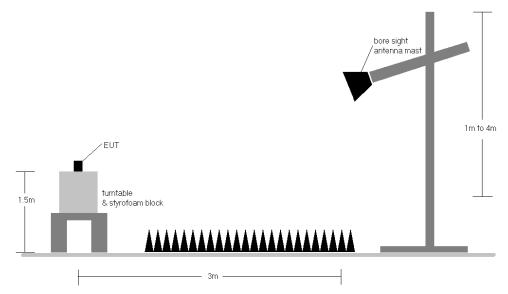


Figure 7-8. Test Instrument & Measurement Setup > 1GHz

| FCC ID: A3LSMF936JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
|----------------------|----------------------------|------------------|-----------------------------------|
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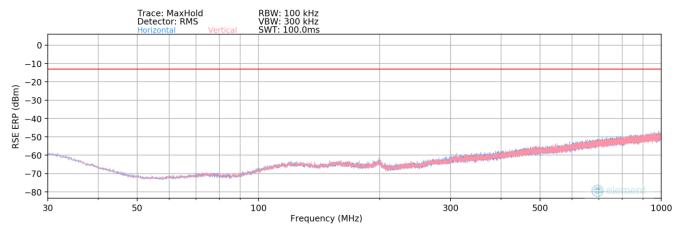
Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) E(dBµV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m)
 - b) EIRP (dBm) = $E(dB\mu V/m) + 20logD 104.8$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

| FCC ID: A3LSMF936JPN | PART 27 MEASUREMENT REPORT | | PART 27 MEASUREMENT REPORT Approved by: Technical Mana | | | |
|----------------------|----------------------------|------------------|---|--|--|--|
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LTE Band 4



Plot 7-98. Radiated Spurious Plot (LTE Band 4)

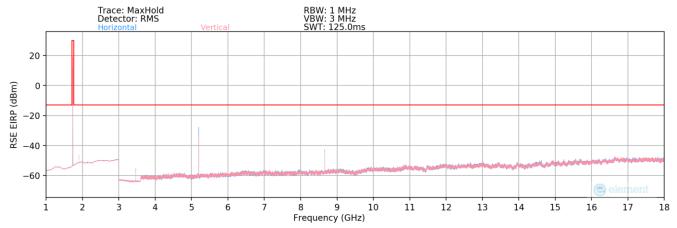
| Bandwidth (MHz): | 20 |
|------------------|--------|
| Frequency (MHz): | 1732.5 |
| RB / Offset: | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|---|----------------|----------------|
| 692.37 | Н | - | - | -99.61 | 28.49 | 35.88 | -61.53 | -13.00 | -48.53 |
| 955.38 | Н | - | - | -99.04 | 31.82 | 39.78 | -57.63 | -13.00 | -44.63 |

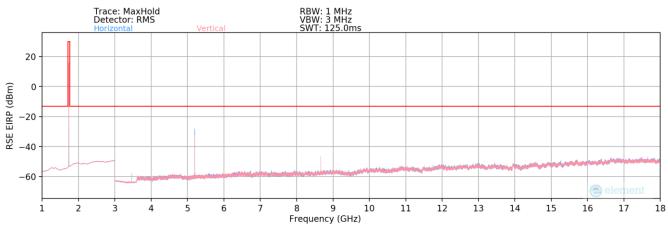
Table 7-7. Radiated Spurious Data (LTE Band 4 - Mid Channel)

| FCC ID: A3LSMF936JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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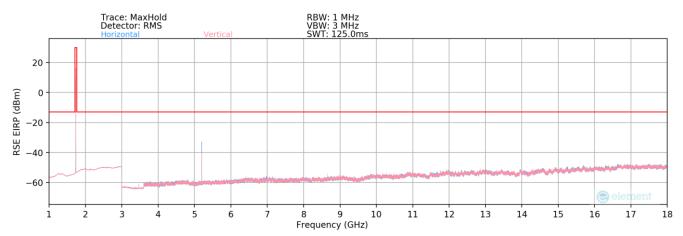




Plot 7-99. Radiated Spurious Plot (LTE Band 4) _OPEN



Plot 7-100. Radiated Spurious Plot (LTE Band 4) _HALF



Plot 7-101. Radiated Spurious Plot (LTE Band 4) _CLOSED

| FCC ID: A3LSMF936JPN | | PART 27 MEASUREMENT REPORT | |
|----------------------|-----------------|----------------------------|---------------|
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| Bandwidth (MHz): | 20 |
|------------------|--------|
| Frequency (MHz): | 1720 |
| RB / Offset: | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3440.00 | Н | 180 | 185 | -71.59 | 2.88 | 38.29 | -56.97 | -13.00 | -43.97 |
| 5160.00 | Н | 206 | 338 | -45.01 | 5.00 | 66.99 | -28.27 | -13.00 | -15.27 |
| 6880.00 | Н | 186 | 334 | -77.23 | 7.96 | 37.73 | -57.53 | -13.00 | -44.53 |
| 8600.00 | Н | 141 | 349 | -68.64 | 8.43 | 46.79 | -48.46 | -13.00 | -35.46 |
| 10320.00 | Н | - | - | -79.89 | 11.16 | 38.27 | -56.99 | -13.00 | -43.99 |
| 12040.00 | Н | 130 | 81 | -79.83 | 14.12 | 41.29 | -53.97 | -13.00 | -40.97 |
| 13760.00 | Н | - | - | -80.59 | 15.19 | 41.60 | -53.65 | -13.00 | -40.65 |
| 15480.00 | Н | - | - | -80.79 | 16.27 | 42.48 | -52.77 | -13.00 | -39.77 |

Table 7-8. Radiated Spurious Data (LTE Band 4 - Low Channel)

| Bandwidth (MHz): | 20 |
|------------------|--------|
| Frequency (MHz): | 1732.5 |
| RB / Offset: | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3465.00 | Н | 231 | 18 | -70.38 | 2.76 | 39.38 | -55.88 | -13.00 | -42.88 |
| 5197.50 | Н | 239 | 329 | -44.08 | 5.32 | 68.24 | -27.02 | -13.00 | -14.02 |
| 6930.00 | Н | 192 | 335 | -77.45 | 7.75 | 37.30 | -57.96 | -13.00 | -44.96 |
| 8662.50 | Н | 140 | 350 | -67.93 | 8.84 | 47.91 | -47.35 | -13.00 | -34.35 |
| 10395.00 | Н | - | - | -80.02 | 11.68 | 38.66 | -56.60 | -13.00 | -43.60 |
| 12127.50 | Н | 234 | 77 | -78.69 | 13.74 | 42.05 | -53.20 | -13.00 | -40.20 |
| 13860.00 | Н | - | - | -81.03 | 14.71 | 40.68 | -54.57 | -13.00 | -41.57 |
| 15592.50 | Н | - | - | -80.16 | 16.11 | 42.95 | -52.31 | -13.00 | -39.31 |

Table 7-9. Radiated Spurious Data (LTE Band 4 - Mid Channel)

| Bandwidth (MHz): | 20 |
|------------------|--------|
| Frequency (MHz): | 1745 |
| RB / Offset: | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3490.00 | Н | 252 | 190 | -68.14 | 2.69 | 41.55 | -53.71 | -13.00 | -40.71 |
| 5235.00 | Н | 202 | 74 | -44.06 | 5.03 | 67.97 | -27.29 | -13.00 | -14.29 |
| 6980.00 | Н | 184 | 358 | -77.72 | 7.16 | 36.44 | -58.82 | -13.00 | -45.82 |
| 8725.00 | Н | 144 | 19 | -67.38 | 8.55 | 48.17 | -47.08 | -13.00 | -34.08 |
| 10470.00 | Н | - | - | -80.23 | 11.64 | 38.41 | -56.85 | -13.00 | -43.85 |
| 12215.00 | Н | 223 | 80 | -79.42 | 13.70 | 41.28 | -53.98 | -13.00 | -40.98 |
| 13960.00 | Н | - | - | -80.11 | 14.14 | 41.03 | -54.23 | -13.00 | -41.23 |
| 15705.00 | Н | - | - | -80.15 | 17.45 | 44.30 | -50.96 | -13.00 | -37.96 |

Table 7-10. Radiated Spurious Data (LTE Band 4 – High Channel)

| FCC ID: A3LSMF936JPN | | PART 27 MEASUREMENT REPORT | | |
|----------------------|-----------------|----------------------------|---------------|--|
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| Case: | w/ Wireless Charging Pad |
|------------------|--------------------------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1732.5 |
| RB / Offset: | 1 / 50 |

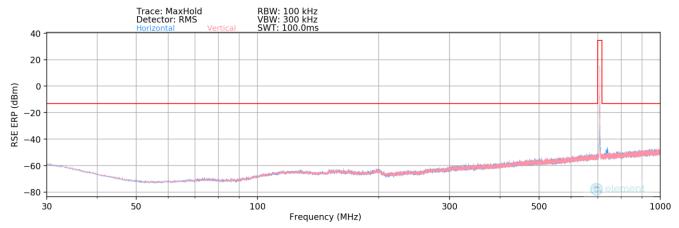
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3465.00 | Н | 140 | 178 | -70.88 | 2.76 | 38.88 | -56.38 | -13.00 | -43.38 |
| 5197.50 | Н | 350 | 226 | -48.97 | 5.32 | 63.35 | -31.91 | -13.00 | -18.91 |
| 6930.00 | Н | 288 | 343 | -77.85 | 7.75 | 36.90 | -58.36 | -13.00 | -45.36 |
| 8662.50 | Н | 276 | 319 | -75.42 | 8.84 | 40.42 | -54.84 | -13.00 | -41.84 |
| 10395.00 | Н | - | - | -80.11 | 11.68 | 38.57 | -56.69 | -13.00 | -43.69 |
| 12127.50 | Н | - | - | -80.38 | 13.74 | 40.36 | -54.89 | -13.00 | -41.89 |
| 13860.00 | Н | - | - | -81.05 | 14.71 | 40.66 | -54.59 | -13.00 | -41.59 |

Table 7-11. Radiated Spurious Data with WCP (LTE Band 4)

| FCC ID: A3LSMF936JPN | | PART 27 MEASUREMENT REPORT | |
|----------------------|-----------------|----------------------------|---------------|
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LTE Band 12 - Ant A + ANT B



Plot 7-102. Radiated Spurious Plot (LTE Band 12 – Ant A + ANT B)

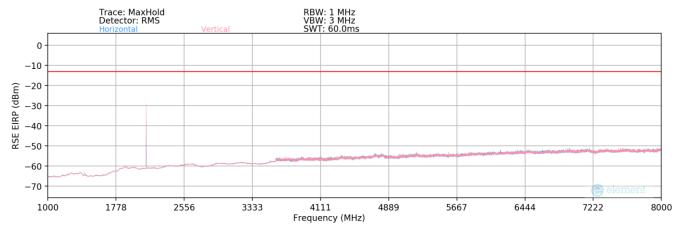
| Bandwidth (MHz): | 10 |
|------------------|--------|
| Frequency (MHz): | 707.5 |
| RB / Offset: | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|---|----------------|----------------|
| 166.84 | V | - | - | -101.64 | 19.47 | 24.83 | -72.58 | -13.00 | -59.58 |
| 352.01 | V | - | | -101.28 | 22.26 | 27.98 | -69.42 | -13.00 | -56.42 |
| 737.00 | V | - | - | -99.59 | 29.14 | 36.55 | -60.86 | -13.00 | -47.86 |

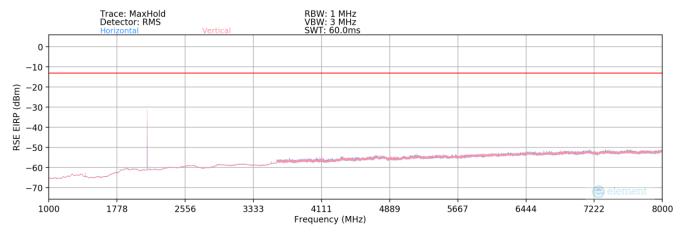
Table 7-12. Radiated Spurious Data (LTE Band 12 – Mid Channel – Ant A + ANT B)

| FCC ID: A3LSMF936JPN | | PART 27 MEASUREMENT REPORT | |
|----------------------|-----------------|----------------------------|---------------|
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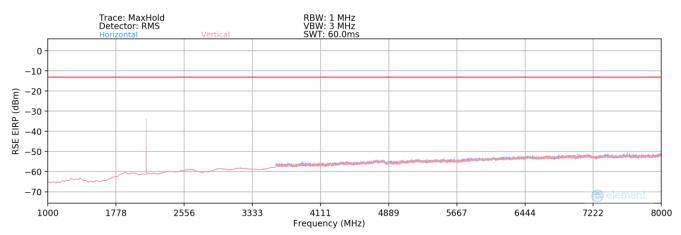




Plot 7-103. Radiated Spurious Plot (LTE Band 12 - Ant A + ANT B) _OPEN



Plot 7-104. Radiated Spurious Plot (LTE Band 12 - Ant A + ANT B) _HALF



Plot 7-105. Radiated Spurious Plot (LTE Band 12 – Ant A + ANT B) _CLOSED

| FCC ID: A3LSMF936JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
|----------------------|----------------------------|------------------|-----------------------------------|
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| Bandwidth (MHz): | 10 |
|------------------|--------|
| Frequency (MHz): | 704 |
| RB / Offset: | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 1408.00 | V | 285 | 126 | -70.70 | -3.69 | 32.61 | -62.65 | -13.00 | -49.65 |
| 2112.00 | V | 145 | 250 | -40.55 | -0.26 | 66.19 | -29.07 | -13.00 | -16.07 |
| 2816.00 | V | 135 | 116 | -76.03 | 0.80 | 31.77 | -63.49 | -13.00 | -50.49 |
| 3520.00 | V | 145 | 89 | -72.09 | 2.19 | 37.10 | -58.16 | -13.00 | -45.16 |
| 4224.00 | V | - | - | -77.04 | 2.93 | 32.89 | -62.37 | -13.00 | -49.37 |
| 4928.00 | V | - | - | -77.83 | 3.97 | 33.14 | -62.12 | -13.00 | -49.12 |
| 5632.00 | V | - | - | -77.92 | 5.33 | 34.41 | -60.84 | -13.00 | -47.84 |
| 6336.00 | V | - | - | -78.61 | 6.67 | 35.06 | -60.20 | -13.00 | -47.20 |

Table 7-13. Radiated Spurious Data (LTE Band 12 – Low Channel – Ant A + ANT B)

| Bandwidth (MHz): | 10 |
|------------------|--------|
| Frequency (MHz): | 707.5 |
| RB / Offset: | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 1415.00 | V | 300 | 133 | -72.23 | -3.79 | 30.98 | -64.28 | -13.00 | -51.28 |
| 2122.50 | V | 134 | 251 | -40.31 | -0.25 | 66.44 | -28.81 | -13.00 | -15.81 |
| 2830.00 | V | 145 | 113 | -76.23 | 0.83 | 31.60 | -63.66 | -13.00 | -50.66 |
| 3537.50 | V | 141 | 191 | -73.13 | 2.43 | 36.30 | -58.95 | -13.00 | -45.95 |
| 4245.00 | V | - | - | -77.43 | 3.01 | 32.58 | -62.68 | -13.00 | -49.68 |
| 4952.50 | V | - | - | -77.92 | 3.89 | 32.97 | -62.29 | -13.00 | -49.29 |
| 5660.00 | V | - | - | -78.12 | 5.27 | 34.15 | -61.11 | -13.00 | -48.11 |
| 6367.50 | V | - | - | -78.39 | 6.55 | 35.16 | -60.10 | -13.00 | -47.10 |

Table 7-14. Radiated Spurious Data (LTE Band 12 – Mid Channel – Ant A + ANT B)

| Bandwidth (MHz): | 10 |
|------------------|--------|
| Frequency (MHz): | 711 |
| RB / Offset: | 1 / 25 |

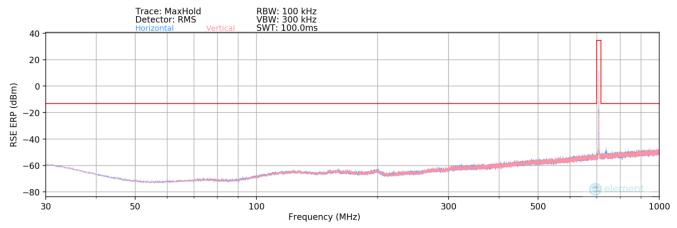
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 1422.00 | V | 380 | 321 | -71.03 | -3.83 | 32.14 | -63.12 | -13.00 | -50.12 |
| 2133.00 | V | 186 | 293 | -41.21 | -0.22 | 65.57 | -29.69 | -13.00 | -16.69 |
| 2844.00 | V | 143 | 105 | -76.21 | 0.93 | 31.72 | -63.54 | -13.00 | -50.54 |
| 3555.00 | V | 148 | 181 | -73.73 | 2.76 | 36.03 | -59.23 | -13.00 | -46.23 |
| 4266.00 | V | - | - | -77.72 | 3.24 | 32.52 | -62.74 | -13.00 | -49.74 |
| 4977.00 | V | - | - | -78.11 | 4.07 | 32.96 | -62.30 | -13.00 | -49.30 |
| 5688.00 | V | - | - | -78.67 | 5.36 | 33.69 | -61.57 | -13.00 | -48.57 |
| 6399.00 | V | - | - | -78.59 | 6.78 | 35.19 | -60.07 | -13.00 | -47.07 |

Table 7-15. Radiated Spurious Data (LTE Band 12 – High Channel – Ant A + ANT B)

| FCC ID: A3LSMF936JPN | PART 27 MEASUREMENT REPORT | | PART 27 MEASUREMENT REPORT Approved by: Technical Man | | |
|----------------------|----------------------------|------------------|--|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 80 of 93 | | |
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LTE Band 12 - Ant A



Plot 7-106. Radiated Spurious Plot (LTE Band 12 - Ant A)

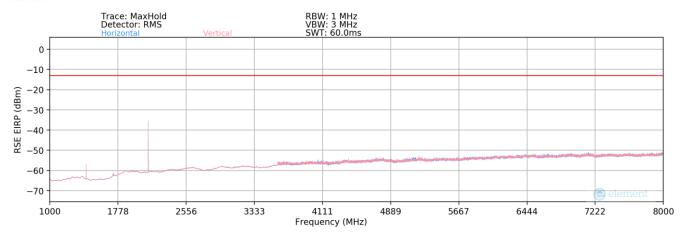
| Bandwidth (MHz): | 10 |
|------------------|--------|
| Frequency (MHz): | 707.5 |
| RB / Offset: | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|---|----------------|----------------|
| 838.70 | Н | - | - | -99.21 | 30.81 | 38.60 | -58.81 | -13.00 | -45.81 |
| 737.50 | Н | - | - | -97.32 | 29.29 | 38.97 | -58.44 | -13.00 | -45.44 |

Table 7-16. Radiated Spurious Data (LTE Band 12 - Mid Channel - Ant A)

| FCC ID: A3LSMF936JPN | PART 27 MEASUREMENT REPORT | | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
|----------------------|----------------------------|------------------|----------------------------|--|-----------------------------------|
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Plot 7-107. Radiated Spurious Plot (LTE Band 12 - Ant A)

| Bandwidth (MHz): | 10 |
|------------------|--------|
| Frequency (MHz): | 704 |
| RB / Offset: | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3.00 | Н | 168 | 234 | -64.45 | -3.80 | 38.75 | -56.51 | -13.00 | -43.51 |
| 2.00 | Н | 156 | 202 | -47.91 | -0.50 | 58.59 | -36.66 | -13.00 | -23.66 |
| 3.00 | Н | - | - | -76.35 | 0.60 | 31.25 | -64.00 | -13.00 | -51.00 |
| 0.00 | Н | 127 | 294 | -76.70 | 2.12 | 32.42 | -62.84 | -13.00 | -49.84 |
| 4.00 | Н | - | - | -76.72 | 2.81 | 33.09 | -62.17 | -13.00 | -49.17 |
| 3.00 | Н | - | - | -77.41 | 3.64 | 33.23 | -62.03 | -13.00 | -49.03 |
| 2.00 | Н | - | - | -77.73 | 5.22 | 34.49 | -60.77 | -13.00 | -47.77 |

Table 7-17. Radiated Spurious Data (LTE Band 12 - Low Channel - Ant A)

| Bandwidth (MHz): | 10 |
|------------------|--------|
| Frequency (MHz): | 707.5 |
| RB / Offset: | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 5.00 | Н | 228 | 235 | -64.35 | -3.90 | 38.75 | -56.51 | -13.00 | -43.51 |
| 2.50 | Н | 120 | 146 | -43.94 | -0.41 | 62.65 | -32.60 | -13.00 | -19.60 |
| 0.00 | Н | - | - | -76.83 | 0.72 | 30.89 | -64.37 | -13.00 | -51.37 |
| 7.50 | Н | 179 | 285 | -76.59 | 2.45 | 32.86 | -62.40 | -13.00 | -49.40 |
| 5.00 | Н | - | - | -77.08 | 2.96 | 32.88 | -62.37 | -13.00 | -49.37 |
| 2.50 | Н | - | - | -77.51 | 3.85 | 33.34 | -61.92 | -13.00 | -48.92 |
| 0.00 | Н | - | - | -77.56 | 5.26 | 34.70 | -60.56 | -13.00 | -47.56 |

Table 7-18. Radiated Spurious Data (LTE Band 12 - Mid Channel - Ant A)

| FCC ID: A3LSMF936JPN | PART 27 MEASUREMENT REPORT | | PART 27 MEASUREMENT REPORT Approved by: Technical Man | | | |
|----------------------|----------------------------|------------------|--|--|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 82 of 93 | | | |
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| Bandwidth (MHz): | 10 |
|------------------|--------|
| Frequency (MHz): | 711 |
| RB / Offset: | 1 / 25 |

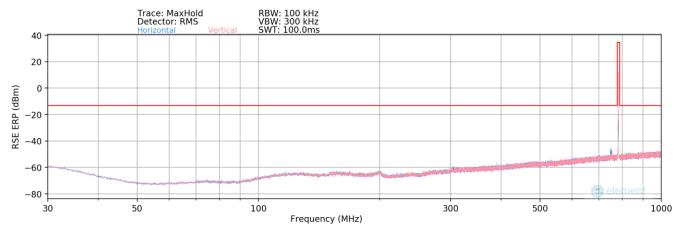
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 2.00 | Н | 157 | 197 | -63.88 | -3.98 | 39.14 | -56.12 | -13.00 | -43.12 |
| 3.00 | Н | 200 | 178 | -44.58 | -0.28 | 62.14 | -33.12 | -13.00 | -20.12 |
| 4.00 | Н | - | - | -76.53 | 0.89 | 31.36 | -63.90 | -13.00 | -50.90 |
| 5.00 | Н | 398 | 286 | -75.96 | 2.66 | 33.70 | -61.56 | -13.00 | -48.56 |
| 3.00 | Н | - | - | -77.11 | 3.15 | 33.04 | -62.21 | -13.00 | -49.21 |
| 7.00 | Н | - | - | -77.46 | 4.01 | 33.55 | -61.70 | -13.00 | -48.70 |
| 3.00 | Н | 0 | 0 | -77.92 | 5.09 | 34.17 | -61.09 | -13.00 | -48.09 |

Table 7-19. Radiated Spurious Data (LTE Band 12 - High Channel - Ant A)

| FCC ID: A3LSMF936JPN | | PART 27 MEASUREMENT REPORT | | |
|----------------------|-----------------|----------------------------|---------------|--|
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LTE Band 13 - Ant A + ANT B



Plot 7-108. Radiated Spurious Plot (LTE Band 13 – Ant A + ANT B)

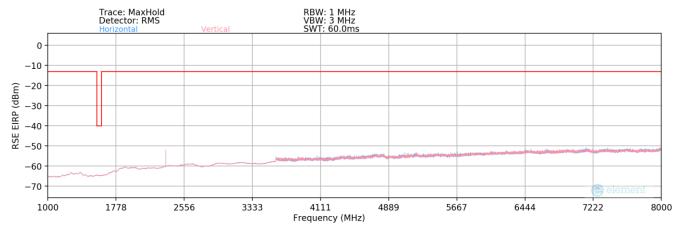
| Bandwidth (MHz): | 10 |
|------------------|--------|
| Frequency (MHz): | 782 |
| RB / Offset: | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|---|----------------|----------------|
| 381.11 | Н | - | - | -101.68 | 22.62 | 27.94 | -69.46 | -13.00 | -56.46 |
| 751.00 | Н | - | - | -99.24 | 29.63 | 37.39 | -60.02 | -13.00 | -47.02 |

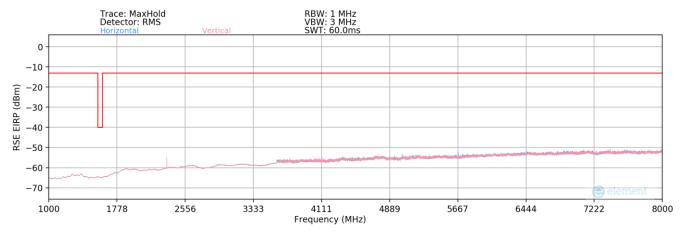
Table 7-20. Radiated Spurious Data (LTE Band 13 - Mid Channel - Ant A + ANT B)

| FCC ID: A3LSMF936JPN | | PART 27 MEASUREMENT REPORT | | | |
|----------------------|-----------------|----------------------------|---------------|--|--|
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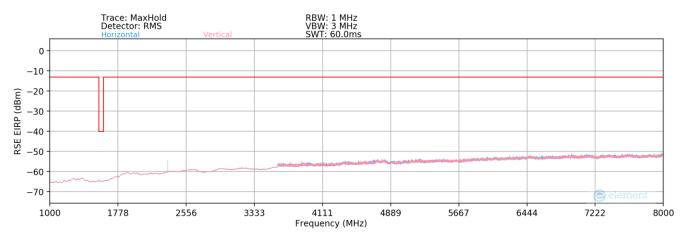




Plot 7-109. Radiated Spurious Plot (LTE Band 13 - Ant A + ANT B) _OPEN



Plot 7-110. Radiated Spurious Plot (LTE Band 13 - Ant A + ANT B) _HALF



Plot 7-111. Radiated Spurious Plot (LTE Band 13 – Ant A + ANT B) _CLOSED

| FCC ID: A3LSMF936JPN | | Approved by: Technical Manager | | |
|----------------------|-----------------|--------------------------------|---------------|--|
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| Bandwidth (MHz): | 10 |
|------------------|--------|
| Frequency (MHz): | 782 |
| RB / Offset: | 1 / 25 |

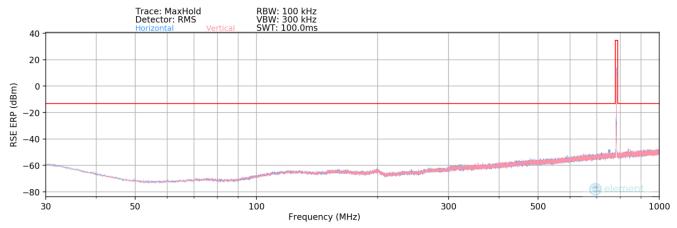
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 1564.00 | Н | - | - | -76.49 | -3.87 | 26.64 | -68.62 | -40.00 | -28.62 |
| 2346.00 | Н | 201 | 148 | -61.34 | 0.64 | 46.30 | -48.96 | -13.00 | -35.96 |
| 3128.00 | Н | - | - | -77.16 | 1.93 | 31.77 | -63.49 | -13.00 | -50.49 |
| 3910.00 | Н | - | 1 | -77.64 | 3.09 | 32.45 | -62.81 | -13.00 | -49.81 |
| 4692.00 | Н | - | 1 | -77.65 | 4.17 | 33.52 | -61.73 | -13.00 | -48.73 |

Table 7-21. Radiated Spurious Data (LTE Band 13 – Mid Channel – Ant A + ANT B)

| FCC ID: A3LSMF936JPN | | PART 27 MEASUREMENT REPORT | | |
|----------------------|-----------------|----------------------------|----------------|--|
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LTE Band 13 - Ant A



Plot 7-112. Radiated Spurious Plot (LTE Band 13 - Ant A)

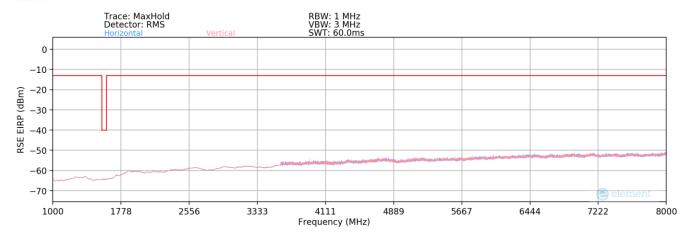
| Bandwidth (MHz): | 10 |
|------------------|--------|
| Frequency (MHz): | 782 |
| RB / Offset: | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|---|----------------|----------------|
| 737.50 | Н | - | - | -99.41 | 29.29 | 36.88 | -60.53 | -13.00 | -47.53 |
| 807.89 | Н | - | - | -99.61 | 30.31 | 37.70 | -59.71 | -13.00 | -46.71 |

Table 7-22. Radiated Spurious Data (LTE Band 13 - Mid Channel - Ant A)

| FCC ID: A3LSMF936JPN | | PART 27 MEASUREMENT REPORT | | | |
|----------------------|-----------------|----------------------------|---------------|--|--|
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Plot 7-113. Radiated Spurious Plot (LTE Band 13 - Ant A)

| Bandwidth (MHz): | 10 |
|------------------|--------|
| Frequency (MHz): | 782 |
| RB / Offset: | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 1564.00 | Н | - | - | -76.06 | -4.11 | 26.83 | -68.42 | -40.00 | -28.42 |
| 2346.00 | Н | 255 | 151 | -74.82 | 0.50 | 32.68 | -62.57 | -13.00 | -49.57 |
| 3128.00 | Н | - | - | -76.38 | 1.83 | 32.45 | -62.81 | -13.00 | -49.81 |
| 3910.00 | Н | - | - | -77.64 | 3.05 | 32.41 | -62.85 | -13.00 | -49.85 |
| 4692.00 | Н | - | - | -77.42 | 4.38 | 33.96 | -61.30 | -13.00 | -48.30 |

Table 7-23. Radiated Spurious Data (LTE Band 13 - Mid Channel - Ant A)

| FCC ID: A3LSMF936JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental a.) chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015 - Section 5.6

Test Settings

- 1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

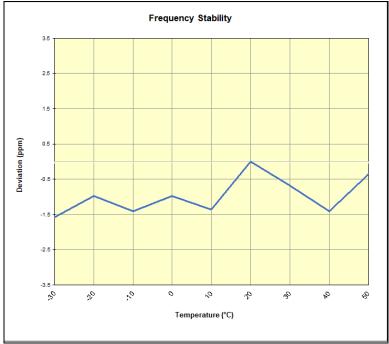
None

| FCC ID: A3LSMF936JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager | |
|----------------------|----------------------------|------------------|-----------------------------------|--|
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| LTE Band 4 | | | | | | | |
|------------------|-------------|------------------|-------------------|--------------------|------------------|--|--|
| | Operating F | requency (Hz): | 1,732,5 | 00,000 |] | | |
| | Ref. | Voltage (VDC): | 4.3 | 38 | | | |
| | | Deviation Limit: | ± 0.00025% | or 2.5 ppm | | | |
| | | | | | | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) | | |
| | | - 30 | 1,732,500,005 | -2,745 | -0.0001584 | | |
| | | - 20 | 1,732,501,061 | -1,689 | -0.0000975 | | |
| | | - 10 | 1,732,500,316 | -2,434 | -0.0001405 | | |
| | | 0 | 1,732,501,073 | -1,677 | -0.0000968 | | |
| 100 % | 4.38 | + 10 | 1,732,500,397 | -2,353 | -0.0001358 | | |
| | | + 20 (Ref) | 1,732,502,750 | 0 | 0.0000000 | | |
| | | + 30 | 1,732,501,558 | -1,192 | -0.0000688 | | |
| | | + 40 | 1,732,500,312 | -2,438 | -0.0001407 | | |
| | | + 50 | 1,732,502,128 | -622 | -0.0000359 | | |
| Battery Endpoint | 3.35 | + 20 | 1,732,504,046 | 1,296 | 0.0000748 | | |

Table 7-24. LTE Band 4 Frequency Stability Data



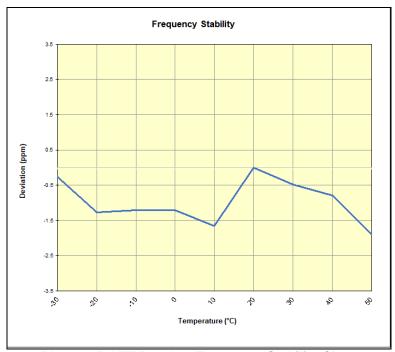
Plot 7-114. LTE Band 4 Frequency Stability Chart

| FCC ID: A3LSMF936JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
|----------------------|----------------------------|------------------|-----------------------------------|
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| LTE Band 12 | | | | | | | |
|------------------|-------------|--------------------|-------------------|--------------------|---------------|--|--|
| | Operating F | requency (Hz): | 707,50 | 00,000 | | | |
| | Ref. | Voltage (VDC): | 4. | 38 | | | |
| | | Deviation Limit: | ± 0.00025% | or 2.5 ppm | | | |
| | | | | | | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) | | |
| | | - 30 | 707,510,772 | -182 | -0.0000258 | | |
| | | - <mark>2</mark> 0 | 707,510,057 | -898 | -0.0001269 | | |
| | | - 10 | 707,510,105 | -850 | -0.0001201 | | |
| | | 0 | 707,510,096 | -859 | -0.0001214 | | |
| 100 % | 4.38 | + 10 | 707,509,781 | -1,173 | -0.0001659 | | |
| | | + 20 (Ref) | 707,510,955 | 0 | 0.0000000 | | |
| | | + 30 | 707,510,615 | -340 | -0.0000481 | | |
| | | + 40 | 707,510,398 | -557 | -0.0000787 | | |
| | | + 50 | 707,509,614 | -1,341 | -0.0001895 | | |
| Battery Endpoint | 3.35 | + 20 | 707,509,654 | -1,301 | -0.0001839 | | |

Table 7-25. LTE Band 12 Frequency Stability Data



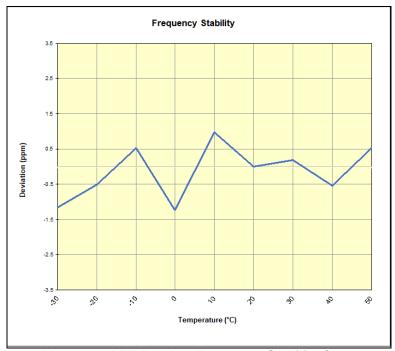
Plot 7-115. LTE Band 12 Frequency Stability Chart

| FCC ID: A3LSMF936JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager | |
|----------------------|----------------------------|------------------|-----------------------------------|--|
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| LTE Band 13 | | | | | | | |
|------------------|-------------|------------------|-------------------|--------------------|---------------|--|--|
| | Operating F | requency (Hz): | 782,00 | 00,000 | | | |
| | Ref. | Voltage (VDC): | 4. | 38 | | | |
| | | Deviation Limit: | ± 0.00025% | or 2.5 ppm | | | |
| | | | | | | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) | | |
| | | - 30 | 782,009,321 | -914 | -0.0001168 | | |
| | | - 20 | 782,009,839 | -396 | -0.0000506 | | |
| | | - 10 | 782,010,651 | 417 | 0.0000533 | | |
| | | 0 | 782,009,267 | -968 | -0.0001238 | | |
| 100 % | 4.38 | + 10 | 782,010,998 | 764 | 0.0000976 | | |
| | | + 20 (Ref) | 782,010,235 | 0 | 0.0000000 | | |
| | | + 30 | 782,010,375 | 140 | 0.0000179 | | |
| | | + 40 | 782,009,813 | -421 | -0.0000539 | | |
| | | + 50 | 782,010,642 | 408 | 0.0000521 | | |
| Battery Endpoint | 3.35 | + 20 | 782,008,942 | -1,293 | -0.0001653 | | |

Table 7-26. LTE Band 13 Frequency Stability Data



Plot 7-116. LTE Band 13 Frequency Stability Chart

| FCC ID: A3LSMF936JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager | |
|----------------------|----------------------------|------------------|-----------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 02 of 02 | |
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Samsung Portable Handset FCC ID: A3LSMF936JPN complies with all the requirements of Part 27 of the FCC rules.

| FCC ID: A3LSMF936JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
|----------------------|----------------------------|------------------|-----------------------------------|
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