



Report No.: SEWM2306000190RG01

Rev.: 01

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Appendix B.23

LTE CA_66C



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Effective (Isotropic) Radiated Power Output Data

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result (dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|-------|-------------|---------------|---------------|------------------|--------------|------------|-------------|---------|
| 66-66 | 10MHz-15MHz | QPSK-QPSK | 132025-132145 | 1RB#0-0RB#0 | 23.18 | 25.44 | 30 | PASS |
| 66-66 | 10MHz-15MHz | QPSK-QPSK | 132025-132145 | 50RB#0-75RB#0 | 22 | 24.26 | 30 | PASS |
| 66-66 | 10MHz-15MHz | QPSK-QPSK | 132351-132471 | 1RB#0-0RB#0 | 23.48 | 25.74 | 30 | PASS |
| 66-66 | 10MHz-15MHz | QPSK-QPSK | 132351-132471 | 50RB#0-75RB#0 | 22.03 | 24.29 | 30 | PASS |
| 66-66 | 10MHz-15MHz | QPSK-QPSK | 132477-132597 | 1RB#0-0RB#0 | 23.23 | 25.49 | 30 | PASS |
| 66-66 | 10MHz-15MHz | QPSK-QPSK | 132477-132597 | 50RB#0-75RB#0 | 21.96 | 24.22 | 30 | PASS |
| 66-66 | 10MHz-15MHz | 16QAM-16QAM | 132025-132145 | 1RB#0-0RB#0 | 22.47 | 24.73 | 30 | PASS |
| 66-66 | 10MHz-15MHz | 16QAM-16QAM | 132025-132145 | 50RB#0-75RB#0 | 21 | 23.26 | 30 | PASS |
| 66-66 | 10MHz-15MHz | 16QAM-16QAM | 132351-132471 | 1RB#0-0RB#0 | 22.5 | 24.76 | 30 | PASS |
| 66-66 | 10MHz-15MHz | 16QAM-16QAM | 132351-132471 | 50RB#0-75RB#0 | 21.07 | 23.33 | 30 | PASS |
| 66-66 | 10MHz-15MHz | 16QAM-16QAM | 132477-132597 | 1RB#0-0RB#0 | 22.41 | 24.67 | 30 | PASS |
| 66-66 | 10MHz-15MHz | 16QAM-16QAM | 132477-132597 | 50RB#0-75RB#0 | 20.96 | 23.22 | 30 | PASS |
| 66-66 | 10MHz-15MHz | 64QAM-64QAM | 132025-132145 | 1RB#0-0RB#0 | 21.41 | 23.67 | 30 | PASS |
| 66-66 | 10MHz-15MHz | 64QAM-64QAM | 132025-132145 | 50RB#0-75RB#0 | 20.99 | 23.25 | 30 | PASS |
| 66-66 | 10MHz-15MHz | 64QAM-64QAM | 132351-132471 | 1RB#0-0RB#0 | 21.69 | 23.95 | 30 | PASS |
| 66-66 | 10MHz-15MHz | 64QAM-64QAM | 132351-132471 | 50RB#0-75RB#0 | 21.05 | 23.31 | 30 | PASS |
| 66-66 | 10MHz-15MHz | 64QAM-64QAM | 132477-132597 | 1RB#0-0RB#0 | 21.47 | 23.73 | 30 | PASS |
| 66-66 | 10MHz-15MHz | 64QAM-64QAM | 132477-132597 | 50RB#0-75RB#0 | 20.93 | 23.19 | 30 | PASS |
| 66-66 | 10MHz-15MHz | 256QAM-256QAM | 132025-132145 | 1RB#0-0RB#0 | 18.49 | 20.75 | 30 | PASS |
| 66-66 | 10MHz-15MHz | 256QAM-256QAM | 132025-132145 | 50RB#0-75RB#0 | 19 | 21.26 | 30 | PASS |
| 66-66 | 10MHz-15MHz | 256QAM-256QAM | 132351-132471 | 1RB#0-0RB#0 | 18.58 | 20.84 | 30 | PASS |
| 66-66 | 10MHz-15MHz | 256QAM-256QAM | 132351-132471 | 50RB#0-75RB#0 | 19.02 | 21.28 | 30 | PASS |
| 66-66 | 10MHz-15MHz | 256QAM-256QAM | 132477-132597 | 1RB#0-0RB#0 | 18.44 | 20.7 | 30 | PASS |
| 66-66 | 10MHz-15MHz | 256QAM-256QAM | 132477-132597 | 50RB#0-75RB#0 | 18.94 | 21.2 | 30 | PASS |
| 66-66 | 10MHz-20MHz | QPSK-QPSK | 132027-132171 | 1RB#0-0RB#0 | 23.2 | 25.46 | 30 | PASS |
| 66-66 | 10MHz-20MHz | QPSK-QPSK | 132027-132171 | 50RB#0-100RB#0 | 21.99 | 24.25 | 30 | PASS |
| 66-66 | 10MHz-20MHz | QPSK-QPSK | 132328-132472 | 1RB#0-0RB#0 | 23.43 | 25.69 | 30 | PASS |
| 66-66 | 10MHz-20MHz | QPSK-QPSK | 132328-132472 | 50RB#0-100RB#0 | 22.1 | 24.36 | 30 | PASS |



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Table with 9 columns: Test ID, Frequency, Modulation, Standard, Test Method, Metric 1, Metric 2, Pass/Fail, and Result. Contains 48 rows of test data.



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Table with 9 columns: Test ID, Frequency, Modulation, Channel, Modulation, SNR, BER, BER, BER, Result. Contains 40 rows of test data.



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Table with 9 columns: Test ID, Frequency, Modulation, Standard, Reference, Value 1, Value 2, Pass/Fail, and Overall Result. Contains 40 rows of test data.



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Table with 9 columns: Test ID, Frequency, Modulation, Standard, Test Result 1, Test Result 2, Test Result 3, Test Result 4, Pass/Fail. Contains 35 rows of test data.



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Table with 9 columns: Test ID, Frequency, Modulation, Standard, Test Method, Result 1, Result 2, Pass/Fail, and Overall Status. Contains 40 rows of test data.



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| | | | | | | | | |
|-------|------------|---------------|---------------|----------------|-------|-------|----|------|
| 66-66 | 5MHz-20MHz | 16QAM-16QAM | 132455-132572 | 1RB#0-0RB#0 | 22.32 | 24.58 | 30 | PASS |
| 66-66 | 5MHz-20MHz | 16QAM-16QAM | 132455-132572 | 50RB#0-100RB#0 | 20.64 | 22.9 | 30 | PASS |
| 66-66 | 5MHz-20MHz | 64QAM-64QAM | 132005-132122 | 1RB#0-0RB#0 | 21.46 | 23.72 | 30 | PASS |
| 66-66 | 5MHz-20MHz | 64QAM-64QAM | 132005-132122 | 50RB#0-100RB#0 | 20.71 | 22.97 | 30 | PASS |
| 66-66 | 5MHz-20MHz | 64QAM-64QAM | 132330-132447 | 1RB#0-0RB#0 | 21.55 | 23.81 | 30 | PASS |
| 66-66 | 5MHz-20MHz | 64QAM-64QAM | 132330-132447 | 50RB#0-100RB#0 | 20.74 | 23 | 30 | PASS |
| 66-66 | 5MHz-20MHz | 64QAM-64QAM | 132455-132572 | 1RB#0-0RB#0 | 21.42 | 23.68 | 30 | PASS |
| 66-66 | 5MHz-20MHz | 64QAM-64QAM | 132455-132572 | 50RB#0-100RB#0 | 20.87 | 23.13 | 30 | PASS |
| 66-66 | 5MHz-20MHz | 256QAM-256QAM | 132005-132122 | 1RB#0-0RB#0 | 18.41 | 20.67 | 30 | PASS |
| 66-66 | 5MHz-20MHz | 256QAM-256QAM | 132005-132122 | 50RB#0-100RB#0 | 18.69 | 20.95 | 30 | PASS |
| 66-66 | 5MHz-20MHz | 256QAM-256QAM | 132330-132447 | 1RB#0-0RB#0 | 18.47 | 20.73 | 30 | PASS |
| 66-66 | 5MHz-20MHz | 256QAM-256QAM | 132330-132447 | 50RB#0-100RB#0 | 18.7 | 20.96 | 30 | PASS |
| 66-66 | 5MHz-20MHz | 256QAM-256QAM | 132455-132572 | 1RB#0-0RB#0 | 18.54 | 20.8 | 30 | PASS |
| 66-66 | 5MHz-20MHz | 256QAM-256QAM | 132455-132572 | 50RB#0-100RB#0 | 18.53 | 20.79 | 30 | PASS |



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Field Strength of Spurious Radiation

Test Band = LTE CA_66C_TM1

Test Channel = Low

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3404.1800 | 42.52 | -46.28 | 29.43 | -69.59 | -13.00 | 56.59 | 211 | 6 | Horizontal |
| 2 | 5106.2700 | 41.03 | -45.36 | 32.94 | -66.66 | -13.00 | 53.66 | 147 | 357 | Horizontal |
| 3 | 6808.3600 | 40.30 | -44.16 | 35.85 | -63.27 | -13.00 | 50.27 | 185 | 132 | Horizontal |
| 4 | 8510.4500 | 37.77 | -41.59 | 37.56 | -61.52 | -13.00 | 48.52 | 169 | 0 | Horizontal |
| 5 | 10212.5400 | 34.38 | -39.45 | 38.81 | -61.51 | -13.00 | 48.51 | 145 | 2 | Horizontal |
| 6 | 11914.6300 | 29.39 | -37.18 | 38.88 | -64.17 | -13.00 | 51.17 | 258 | 284 | Horizontal |

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3404.1800 | 42.80 | -46.28 | 29.43 | -69.31 | -13.00 | 56.31 | 135 | 0 | Vertical |
| 2 | 5106.2700 | 40.89 | -45.36 | 32.94 | -66.80 | -13.00 | 53.80 | 178 | 1 | Vertical |
| 3 | 6808.3600 | 40.77 | -44.16 | 35.85 | -62.80 | -13.00 | 49.80 | 198 | 163 | Vertical |
| 4 | 8510.4500 | 37.32 | -41.59 | 37.56 | -61.97 | -13.00 | 48.97 | 155 | 255 | Vertical |
| 5 | 10212.5400 | 34.35 | -39.45 | 38.81 | -61.54 | -13.00 | 48.54 | 146 | 163 | Vertical |
| 6 | 11914.6300 | 29.91 | -37.18 | 38.88 | -63.65 | -13.00 | 50.65 | 160 | 134 | Vertical |



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Test Band = LTE CA_66C_TM1
Test Channel = Mid

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3472.3800 | 47.56 | -46.27 | 29.50 | -64.47 | -13.00 | 51.47 | 210 | 193 | Horizontal |
| 2 | 5208.5700 | 44.35 | -45.26 | 32.98 | -63.19 | -13.00 | 50.19 | 125 | 1 | Horizontal |
| 3 | 6944.7600 | 39.97 | -43.85 | 36.01 | -63.13 | -13.00 | 50.13 | 148 | 59 | Horizontal |
| 4 | 8680.9500 | 38.26 | -41.62 | 37.88 | -60.74 | -13.00 | 47.74 | 175 | 344 | Horizontal |
| 5 | 10417.1400 | 33.05 | -38.97 | 38.88 | -62.31 | -13.00 | 49.31 | 142 | 1 | Horizontal |
| 6 | 12153.3300 | 30.93 | -37.42 | 39.09 | -62.66 | -13.00 | 49.66 | 165 | 148 | Horizontal |

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3472.3800 | 47.60 | -46.27 | 29.50 | -64.43 | -13.00 | 51.43 | 211 | 256 | Vertical |
| 2 | 5208.5700 | 42.75 | -45.26 | 32.98 | -64.79 | -13.00 | 51.79 | 213 | 332 | Vertical |
| 3 | 6944.7600 | 39.95 | -43.85 | 36.01 | -63.15 | -13.00 | 50.15 | 165 | 357 | Vertical |
| 4 | 8680.9500 | 38.43 | -41.62 | 37.88 | -60.57 | -13.00 | 47.57 | 154 | 256 | Vertical |
| 5 | 10417.1400 | 33.04 | -38.97 | 38.88 | -62.32 | -13.00 | 49.32 | 199 | 0 | Vertical |
| 6 | 12153.3300 | 30.74 | -37.42 | 39.09 | -62.85 | -13.00 | 49.85 | 170 | 29 | Vertical |



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Test Band = LTE CA_66C_TM1
Test Channel = High

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3482.5800 | 46.11 | -46.26 | 29.50 | -65.91 | -13.00 | 52.91 | 248 | 224 | Horizontal |
| 2 | 5223.8700 | 42.29 | -45.23 | 32.97 | -65.24 | -13.00 | 52.24 | 174 | 89 | Horizontal |
| 3 | 6965.1600 | 39.79 | -43.74 | 36.04 | -63.17 | -13.00 | 50.17 | 136 | 316 | Horizontal |
| 4 | 8706.4500 | 37.37 | -41.66 | 37.93 | -61.62 | -13.00 | 48.62 | 258 | 255 | Horizontal |
| 5 | 10447.7400 | 33.06 | -38.91 | 38.91 | -62.20 | -13.00 | 49.20 | 191 | 163 | Horizontal |
| 6 | 12189.0300 | 31.20 | -37.47 | 39.12 | -62.41 | -13.00 | 49.41 | 143 | 1 | Horizontal |

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 3482.5800 | 47.90 | -46.26 | 29.50 | -64.12 | -13.00 | 51.12 | 235 | 299 | Vertical |
| 2 | 5223.8700 | 41.33 | -45.23 | 32.97 | -66.20 | -13.00 | 53.20 | 246 | 224 | Vertical |
| 3 | 6965.1600 | 40.13 | -43.74 | 36.04 | -62.83 | -13.00 | 49.83 | 156 | 344 | Vertical |
| 4 | 8706.4500 | 37.35 | -41.66 | 37.93 | -61.64 | -13.00 | 48.64 | 159 | 6 | Vertical |
| 5 | 10447.7400 | 33.87 | -38.91 | 38.91 | -61.39 | -13.00 | 48.39 | 180 | 29 | Vertical |
| 6 | 12189.0300 | 30.69 | -37.47 | 39.12 | -62.92 | -13.00 | 49.92 | 177 | 148 | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

 $AF = \text{Antenna Factor (dB/m)}$
 $\text{Factor} = \text{Cable Factor (dB)} - \text{Pre-amplifier (dB)}$
 $\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$
 $\text{Margin} = \text{Limit} - \text{Level}$

---End of Attachment---



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