

Report No.: SEWM2302000050RG02

Rev.: 01

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# Appendix B.4

## LTE Band 4



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## Effective (Isotropic) Radiated Power Output Data

Test for Spot check the max BW power:

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|-----------|------------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#0            | 22.92       | 23.79     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#2            | 23.05       | 23.92     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 1RB#5            | 22.96       | 23.83     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 22.01       | 22.88     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#0            | 22.91       | 23.78     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#2            | 23.06       | 23.93     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 1RB#5            | 22.94       | 23.81     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 22.02       | 22.89     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#0            | 22.82       | 23.69     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#2            | 22.94       | 23.81     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 1RB#5            | 22.82       | 23.69     | 30         | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 21.94       | 22.81     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#0            | 22.23       | 23.10     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#2            | 22.32       | 23.19     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 1RB#5            | 22.18       | 23.05     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 21.16       | 22.03     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#0            | 22.20       | 23.07     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#2            | 22.37       | 23.24     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 1RB#5            | 22.34       | 23.21     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 21.13       | 22.00     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#0            | 22.23       | 23.10     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#2            | 22.28       | 23.15     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 1RB#5            | 22.24       | 23.11     | 30         | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 21.02       | 21.89     | 30         | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 1RB#0            | 22.99       | 23.86     | 30         | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 1RB#8            | 22.99       | 23.86     | 30         | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 1RB#14           | 22.98       | 23.85     | 30         | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | 22.07       | 22.94     | 30         | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 1RB#0            | 22.96       | 23.83     | 30         | PASS    |



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|-------|------|-------|-------|--------|-------|-------|----|------|
| Band4 | 3MHz | QPSK  | 20175 | 1RB#8  | 23.03 | 23.90 | 30 | PASS |
| Band4 | 3MHz | QPSK  | 20175 | 1RB#14 | 22.96 | 23.83 | 30 | PASS |
| Band4 | 3MHz | QPSK  | 20175 | 15RB#0 | 22.12 | 22.99 | 30 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 1RB#0  | 22.86 | 23.73 | 30 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 1RB#8  | 22.91 | 23.78 | 30 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 1RB#14 | 22.91 | 23.78 | 30 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 15RB#0 | 22.01 | 22.88 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#0  | 22.38 | 23.25 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#8  | 22.40 | 23.27 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#14 | 22.29 | 23.16 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | 21.12 | 21.99 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#0  | 22.34 | 23.21 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#8  | 22.38 | 23.25 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#14 | 22.32 | 23.19 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | 21.16 | 22.03 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#0  | 22.10 | 22.97 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#8  | 22.22 | 23.09 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#14 | 22.18 | 23.05 | 30 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | 21.00 | 21.87 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#0  | 22.97 | 23.84 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#12 | 23.04 | 23.91 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 1RB#24 | 22.96 | 23.83 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 25RB#0 | 22.05 | 22.92 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#0  | 23.03 | 23.90 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#12 | 23.00 | 23.87 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 1RB#24 | 23.03 | 23.90 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 25RB#0 | 22.10 | 22.97 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#0  | 22.91 | 23.78 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#12 | 22.93 | 23.80 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 1RB#24 | 22.88 | 23.75 | 30 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 25RB#0 | 21.96 | 22.83 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#0  | 22.32 | 23.19 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#12 | 22.37 | 23.24 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#24 | 22.40 | 23.27 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | 21.15 | 22.02 | 30 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#0  | 22.43 | 23.30 | 30 | PASS |



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|-------|-------|-------|-------|--------|-------|-------|----|------|
| Band4 | 5MHz  | 16QAM | 20175 | 1RB#12 | 22.41 | 23.28 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20175 | 1RB#24 | 22.40 | 23.27 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20175 | 25RB#0 | 21.15 | 22.02 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#0  | 22.11 | 22.98 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#12 | 22.11 | 22.98 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 1RB#24 | 22.24 | 23.11 | 30 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 25RB#0 | 21.02 | 21.89 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#0  | 22.99 | 23.86 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#24 | 23.03 | 23.90 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 1RB#49 | 22.99 | 23.86 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0 | 22.07 | 22.94 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#0  | 22.95 | 23.82 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#24 | 23.08 | 23.95 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 1RB#49 | 22.95 | 23.82 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0 | 22.07 | 22.94 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#0  | 22.95 | 23.82 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#24 | 22.90 | 23.77 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 1RB#49 | 22.93 | 23.80 | 30 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0 | 22.10 | 22.97 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#0  | 22.31 | 23.18 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#24 | 22.47 | 23.34 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#49 | 22.36 | 23.23 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 50RB#0 | 21.15 | 22.02 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#0  | 22.29 | 23.16 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#24 | 22.45 | 23.32 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#49 | 22.32 | 23.19 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0 | 21.17 | 22.04 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#0  | 22.35 | 23.22 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#24 | 22.22 | 23.09 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#49 | 22.28 | 23.15 | 30 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0 | 21.15 | 22.02 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#0  | 22.94 | 23.81 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#38 | 23.00 | 23.87 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 1RB#74 | 22.95 | 23.82 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0 | 22.04 | 22.91 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#0  | 22.85 | 23.72 | 30 | PASS |



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|-------|-------|-------|-------|---------|-------|-------|----|------|
| Band4 | 15MHz | QPSK  | 20175 | 1RB#38  | 23.05 | 23.92 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 1RB#74  | 23.02 | 23.89 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 75RB#0  | 22.12 | 22.99 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#0   | 22.96 | 23.83 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#38  | 22.90 | 23.77 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 1RB#74  | 22.97 | 23.84 | 30 | PASS |
| Band4 | 15MHz | QPSK  | 20325 | 75RB#0  | 22.10 | 22.97 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#0   | 22.25 | 23.12 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#38  | 22.32 | 23.19 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#74  | 22.18 | 23.05 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0  | 21.06 | 21.93 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#0   | 22.28 | 23.15 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#38  | 22.43 | 23.30 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#74  | 22.38 | 23.25 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0  | 21.17 | 22.04 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#0   | 22.25 | 23.12 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#38  | 22.27 | 23.14 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#74  | 22.24 | 23.11 | 30 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0  | 21.15 | 22.02 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#0   | 22.88 | 23.75 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#49  | 23.05 | 23.92 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 1RB#99  | 23.01 | 23.88 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20050 | 100RB#0 | 22.00 | 22.87 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#0   | 22.95 | 23.82 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#49  | 23.06 | 23.93 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 1RB#99  | 23.02 | 23.89 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20175 | 100RB#0 | 22.08 | 22.95 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#0   | 22.93 | 23.80 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#49  | 23.05 | 23.92 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 1RB#99  | 22.95 | 23.82 | 30 | PASS |
| Band4 | 20MHz | QPSK  | 20300 | 100RB#0 | 22.05 | 22.92 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#0   | 22.21 | 23.08 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#49  | 22.36 | 23.23 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#99  | 22.34 | 23.21 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 21.05 | 21.92 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#0   | 22.22 | 23.09 | 30 | PASS |



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|-------|-------|-------|-------|---------|-------|-------|----|------|
| Band4 | 20MHz | 16QAM | 20175 | 1RB#49  | 22.28 | 23.15 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#99  | 22.29 | 23.16 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 21.14 | 22.01 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#0   | 22.28 | 23.15 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#49  | 22.30 | 23.17 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#99  | 22.23 | 23.10 | 30 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 21.08 | 21.95 | 30 | PASS |



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## Field Strength of Spurious Radiation

### Test for spot check:

Test Band = LTE Band 4\_ 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               | 3447            | 48.66          | -45.82      | 29.42    | -63.00      | -13.00      | 50.00       | 169         | 0         | Horizontal |
| 2               | 5170.77         | 41.48          | -44.19      | 32.60    | -65.37      | -13.00      | 52.37       | 138         | 210       | Horizontal |
| 3               | 6894.36         | 43.64          | -42.44      | 35.99    | -58.07      | -13.00      | 45.07       | 175         | 130       | Horizontal |
| 4               | 8617.95         | 39.01          | -39.74      | 38.18    | -57.81      | -13.00      | 44.81       | 228         | 112       | Horizontal |
| 5               | 10341.54        | 36.06          | -36.68      | 38.88    | -57.00      | -13.00      | 44.00       | 149         | 258       | Horizontal |
| 6               | 12065.13        | 32.86          | -35.25      | 38.67    | -58.99      | -13.00      | 45.99       | 206         | 193       | 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               | 3447            | 49.69          | -45.82      | 29.42    | -61.97      | -13.00      | 48.97       | 268         | 328       | Vertical |
| 2               | 5170.77         | 41.53          | -44.19      | 32.60    | -65.32      | -13.00      | 52.32       | 241         | 357       | Vertical |
| 3               | 6894.36         | 40.70          | -42.44      | 35.99    | -61.01      | -13.00      | 48.01       | 169         | 312       | Vertical |
| 4               | 8617.95         | 37.42          | -39.74      | 38.18    | -59.40      | -13.00      | 46.40       | 186         | 15        | Vertical |
| 5               | 10341.54        | 37.57          | -36.68      | 38.88    | -55.49      | -13.00      | 42.49       | 155         | 143       | Vertical |
| 6               | 12065.13        | 33.00          | -35.25      | 38.67    | -58.85      | -13.00      | 45.85       | 238         | 292       | 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 = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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