



Report No.: SUCR240100000801

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Appendix B.12

LTE Band 18(815-824)



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Transmitter Conducted Power Output Test ResultAnt0

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result (dBm) | Limit (dBm) | Verdict |
|-------------|-----------|------------|---------|------------------|--------------|-------------|---------|
| 18(815-824) | 5MHz | QPSK | 23875 | 1RB#0 | 23.11 | 50.00 | PASS |
| 18(815-824) | 5MHz | 16QAM | 23875 | 1RB#0 | 22.34 | 50.00 | PASS |
| 18(815-824) | 5MHz | QPSK | 23875 | 1RB#12 | 23.31 | 50.00 | PASS |
| 18(815-824) | 5MHz | 16QAM | 23875 | 1RB#12 | 22.45 | 50.00 | PASS |
| 18(815-824) | 5MHz | QPSK | 23875 | 1RB#24 | 23.22 | 50.00 | PASS |
| 18(815-824) | 5MHz | 16QAM | 23875 | 1RB#24 | 22.5 | 50.00 | PASS |
| 18(815-824) | 5MHz | QPSK | 23875 | 25RB#0 | 22.17 | 50.00 | PASS |
| 18(815-824) | 5MHz | 16QAM | 23875 | 25RB#0 | 21.18 | 50.00 | PASS |
| 18(815-824) | 5MHz | QPSK | 23895 | 1RB#0 | 23.2 | 50.00 | PASS |
| 18(815-824) | 5MHz | 16QAM | 23895 | 1RB#0 | 22.25 | 50.00 | PASS |
| 18(815-824) | 5MHz | QPSK | 23895 | 1RB#12 | 23.36 | 50.00 | PASS |
| 18(815-824) | 5MHz | 16QAM | 23895 | 1RB#12 | 22.32 | 50.00 | PASS |
| 18(815-824) | 5MHz | QPSK | 23895 | 1RB#24 | 23.35 | 50.00 | PASS |
| 18(815-824) | 5MHz | 16QAM | 23895 | 1RB#24 | 22.15 | 50.00 | PASS |
| 18(815-824) | 5MHz | QPSK | 23895 | 25RB#0 | 22.23 | 50.00 | PASS |
| 18(815-824) | 5MHz | 16QAM | 23895 | 25RB#0 | 21.19 | 50.00 | PASS |
| 18(815-824) | 5MHz | QPSK | 23915 | 1RB#0 | 23.2 | 50.00 | PASS |
| 18(815-824) | 5MHz | 16QAM | 23915 | 1RB#0 | 22.29 | 50.00 | PASS |
| 18(815-824) | 5MHz | QPSK | 23915 | 1RB#12 | 23.33 | 50.00 | PASS |
| 18(815-824) | 5MHz | 16QAM | 23915 | 1RB#12 | 22.36 | 50.00 | PASS |
| 18(815-824) | 5MHz | QPSK | 23915 | 1RB#24 | 23.25 | 50.00 | PASS |
| 18(815-824) | 5MHz | 16QAM | 23915 | 1RB#24 | 22.15 | 50.00 | PASS |
| 18(815-824) | 5MHz | QPSK | 23915 | 25RB#0 | 22.25 | 50.00 | PASS |
| 18(815-824) | 5MHz | 16QAM | 23915 | 25RB#0 | 21.3 | 50.00 | PASS |



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Field Strength of Spurious Radiation

Test Band = LTE_18 (815-824) _TM1

Test Channel = LCH

| Final Data List | | | | | | | | |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1630.5 | 58.70 | -47.56 | 25.34 | -58.78 | -13.00 | 45.78 | Horizontal |
| 2 | 2446 | 64.33 | -46.65 | 27.58 | -50.00 | -13.00 | 37.00 | Horizontal |
| 3 | 2552.5 | 51.26 | -46.42 | 27.81 | -62.61 | -13.00 | 49.61 | Horizontal |
| 4 | 4190.5 | 45.27 | -43.85 | 29.56 | -64.28 | -13.00 | 51.28 | Horizontal |
| 5 | 5524.5 | 49.48 | -41.87 | 32.30 | -55.35 | -13.00 | 42.35 | Horizontal |
| 6 | 7401.5 | 41.72 | -38.35 | 36.70 | -55.19 | -13.00 | 42.19 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1630.5 | 56.90 | -47.56 | 25.34 | -60.58 | -13.00 | 47.58 | Vertical |
| 2 | 2446 | 63.11 | -46.65 | 27.58 | -51.22 | -13.00 | 38.22 | Vertical |
| 3 | 3593 | 46.77 | -44.55 | 28.91 | -64.13 | -13.00 | 51.13 | Vertical |
| 4 | 5524.5 | 49.31 | -41.87 | 32.30 | -55.52 | -13.00 | 42.52 | Vertical |
| 5 | 7421 | 41.71 | -38.36 | 36.74 | -55.17 | -13.00 | 42.17 | Vertical |
| 6 | 8956 | 40.56 | -35.97 | 36.88 | -53.79 | -13.00 | 40.79 | Vertical |



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Test Band = LTE_18 (815-824) _TM1
Test Channel = MCH

Final Data List

| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
|-----|----------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| 1 | 1634.5 | 58.70 | -47.55 | 25.38 | -58.73 | -13.00 | 45.73 | Horizontal |
| 2 | 2452 | 64.49 | -46.65 | 27.61 | -49.81 | -13.00 | 36.81 | Horizontal |
| 3 | 3692.5 | 47.00 | -44.48 | 29.30 | -63.44 | -13.00 | 50.44 | Horizontal |
| 4 | 5524.5 | 49.13 | -41.87 | 32.30 | -55.70 | -13.00 | 42.70 | Horizontal |
| 5 | 7408 | 42.27 | -38.35 | 36.72 | -54.62 | -13.00 | 41.62 | Horizontal |
| 6 | 9561.5 | 40.11 | -35.84 | 37.80 | -53.19 | -13.00 | 40.19 | Horizontal |

Final Data List

| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
|-----|----------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| 1 | 1634.5 | 58.41 | -47.55 | 25.38 | -59.02 | -13.00 | 46.02 | Vertical |
| 2 | 2452 | 62.84 | -46.65 | 27.61 | -51.46 | -13.00 | 38.46 | Vertical |
| 3 | 3573.5 | 46.97 | -44.74 | 28.95 | -64.08 | -13.00 | 51.08 | Vertical |
| 4 | 5524.5 | 49.15 | -41.87 | 32.30 | -55.68 | -13.00 | 42.68 | Vertical |
| 5 | 7430.5 | 41.67 | -38.36 | 36.76 | -55.19 | -13.00 | 42.19 | Vertical |
| 6 | 9561 | 40.34 | -35.84 | 37.80 | -52.96 | -13.00 | 39.96 | Vertical |



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Test Band = LTE_18 (815-824) _TM1
Test Channel = HCH

| Final Data List | | | | | | | | |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1638.5 | 60.70 | -47.54 | 25.41 | -56.69 | -13.00 | 43.69 | Horizontal |
| 2 | 2458 | 64.63 | -46.66 | 27.63 | -49.66 | -13.00 | 36.66 | Horizontal |
| 3 | 3646.5 | 46.81 | -44.48 | 29.27 | -63.66 | -13.00 | 50.66 | Horizontal |
| 4 | 5524.5 | 48.76 | -41.87 | 32.30 | -56.07 | -13.00 | 43.07 | Horizontal |
| 5 | 7200 | 40.77 | -38.76 | 36.60 | -56.65 | -13.00 | 43.65 | Horizontal |
| 6 | 9977.5 | 39.55 | -35.59 | 38.68 | -52.62 | -13.00 | 39.62 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 1639 | 59.60 | -47.54 | 25.41 | -57.79 | -13.00 | 44.79 | Vertical |
| 2 | 2458 | 65.49 | -46.66 | 27.63 | -48.80 | -13.00 | 35.80 | Vertical |
| 3 | 3675 | 46.57 | -44.48 | 29.30 | -63.87 | -13.00 | 50.87 | Vertical |
| 4 | 5524.5 | 49.05 | -41.87 | 32.30 | -55.78 | -13.00 | 42.78 | Vertical |
| 5 | 7407.5 | 41.96 | -38.35 | 36.72 | -54.93 | -13.00 | 41.93 | Vertical |
| 6 | 9977.5 | 39.55 | -35.59 | 38.68 | -52.62 | -13.00 | 39.62 | 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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