

Appendix B.4

LTE Band 5



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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 |
|-------|-----------|------------|---------|------------------|-------------|-----------|------------|---------|
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | 23.13 | 17.49 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#2 | 23.21 | 17.57 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#5 | 23.08 | 17.44 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 22.13 | 16.49 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | 23.09 | 17.45 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#2 | 23.05 | 17.41 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#5 | 23.15 | 17.51 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | 22.00 | 16.36 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | 23.16 | 17.52 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#2 | 23.04 | 17.4 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#5 | 22.96 | 17.32 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 22.19 | 16.55 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | 21.97 | 16.33 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#2 | 21.94 | 16.3 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#5 | 21.94 | 16.3 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 21.20 | 15.56 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | 21.98 | 16.34 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#2 | 22.04 | 16.4 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#5 | 21.96 | 16.32 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | 21.10 | 15.46 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | 22.64 | 17 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#2 | 21.99 | 16.35 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#5 | 21.99 | 16.35 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 21.02 | 15.38 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | 22.97 | 17.33 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#8 | 22.79 | 17.15 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#14 | 22.94 | 17.3 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 22.09 | 16.45 | 38.45 | PASS |



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| | | | | | | | | |
|-------|------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | 23.25 | 17.61 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#8 | 22.92 | 17.28 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#14 | 22.98 | 17.34 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | 22.06 | 16.42 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | 23.30 | 17.66 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#8 | 23.00 | 17.36 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#14 | 22.99 | 17.35 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 22.21 | 16.57 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 21.97 | 16.33 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#8 | 21.81 | 16.17 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#14 | 21.90 | 16.26 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 21.20 | 15.56 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 21.74 | 16.1 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#8 | 21.79 | 16.15 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#14 | 21.80 | 16.16 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 21.07 | 15.43 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 21.84 | 16.2 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#8 | 21.90 | 16.26 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#14 | 22.03 | 16.39 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 21.14 | 15.5 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | 22.89 | 17.25 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#12 | 23.33 | 17.69 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#24 | 23.11 | 17.47 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 22.06 | 16.42 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | 23.23 | 17.59 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#12 | 22.90 | 17.26 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#24 | 22.94 | 17.3 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | 22.09 | 16.45 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | 23.24 | 17.6 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#12 | 22.95 | 17.31 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#24 | 23.15 | 17.51 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 22.02 | 16.38 | 38.45 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 22.00 | 16.36 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#12 | 21.90 | 16.26 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#24 | 22.00 | 16.36 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 21.06 | 15.42 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 21.93 | 16.29 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#12 | 21.99 | 16.35 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#24 | 21.85 | 16.21 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 21.17 | 15.53 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | 22.74 | 17.1 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#12 | 21.93 | 16.29 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#24 | 21.92 | 16.28 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 21.11 | 15.47 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | 23.10 | 17.46 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#24 | 23.22 | 17.58 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#49 | 23.07 | 17.43 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 22.09 | 16.45 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | 22.98 | 17.34 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#24 | 22.96 | 17.32 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#49 | 23.03 | 17.39 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 22.17 | 16.53 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | 23.34 | 17.7 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#24 | 23.43 | 17.79 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#49 | 22.93 | 17.29 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 22.27 | 16.63 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 21.87 | 16.23 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#24 | 21.90 | 16.26 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49 | 21.96 | 16.32 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 20.98 | 15.34 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 21.79 | 16.15 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#24 | 21.94 | 16.3 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#49 | 21.96 | 16.32 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 21.15 | 15.51 | 38.45 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 21.98 | 16.34 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#24 | 22.09 | 16.45 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49 | 22.05 | 16.41 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 21.35 | 15.71 | 38.45 | PASS |



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Field Strength of Spurious Radiation

Test Band = LTE Band5_ 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 | 1649.1429 | 93.34 | -48.22 | 25.37 | -24.77 | -13.00 | 11.77 | 216 | 144 | Horizontal |
| 2 | 2473.7143 | 83.33 | -47.32 | 27.68 | -31.56 | -13.00 | 18.56 | 236 | 121 | Horizontal |
| 3 | 3298.3600 | 63.77 | -46.68 | 29.56 | -48.61 | -13.00 | 35.61 | 251 | 144 | Horizontal |
| 4 | 4122.8571 | 65.60 | -45.91 | 30.98 | -44.59 | -13.00 | 31.59 | 142 | 280 | Horizontal |
| 5 | 4947.4286 | 61.91 | -45.69 | 32.73 | -46.31 | -13.00 | 33.31 | 155 | 147 | Horizontal |
| 6 | 5772.1300 | 51.58 | -44.64 | 33.65 | -54.67 | -13.00 | 41.67 | 192 | 319 | 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 | 1649.1429 | 93.09 | -48.22 | 25.37 | -25.02 | -13.00 | 12.02 | 215 | 51 | Vertical |
| 2 | 2473.7700 | 77.74 | -47.32 | 27.69 | -37.15 | -13.00 | 24.15 | 145 | 226 | Vertical |
| 3 | 3298.3600 | 66.76 | -46.68 | 29.56 | -45.62 | -13.00 | 32.62 | 236 | 79 | Vertical |
| 4 | 4122.9500 | 67.46 | -45.91 | 30.99 | -42.73 | -13.00 | 29.73 | 251 | 267 | Vertical |
| 5 | 4947.4286 | 63.34 | -45.69 | 32.73 | -44.88 | -13.00 | 31.88 | 136 | 267 | Vertical |
| 6 | 5772.1300 | 49.81 | -44.64 | 33.65 | -56.44 | -13.00 | 43.44 | 261 | 118 | Vertical |



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Test Band = LTE Band5_ 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 | 1664.1800 | 92.79 | -48.20 | 25.38 | -25.30 | -13.00 | 12.30 | 266 | 106 | Horizontal |
| 2 | 2496.2700 | 79.79 | -47.28 | 27.76 | -34.99 | -13.00 | 21.99 | 142 | 147 | Horizontal |
| 3 | 3328.3600 | 66.64 | -46.64 | 29.52 | -45.74 | -13.00 | 32.74 | 135 | 80 | Horizontal |
| 4 | 4160.4500 | 66.65 | -45.94 | 31.04 | -43.51 | -13.00 | 30.51 | 251 | 23 | Horizontal |
| 5 | 4992.5400 | 62.56 | -45.79 | 32.86 | -45.63 | -13.00 | 32.63 | 199 | 281 | Horizontal |
| 6 | 5824.6300 | 50.27 | -44.74 | 33.80 | -55.93 | -13.00 | 42.93 | 140 | 104 | 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 | 1664 | 93.31 | -48.20 | 25.38 | -24.78 | -13.00 | 11.78 | 142 | 120 | Vertical |
| 2 | 2496.2700 | 79.49 | -47.28 | 27.76 | -35.29 | -13.00 | 22.29 | 256 | 146 | Vertical |
| 3 | 3328.3600 | 66.38 | -46.64 | 29.52 | -46.00 | -13.00 | 33.00 | 136 | 79 | Vertical |
| 4 | 4160.4500 | 67.52 | -45.94 | 31.04 | -42.64 | -13.00 | 29.64 | 261 | 280 | Vertical |
| 5 | 4992.5400 | 63.88 | -45.79 | 32.86 | -44.31 | -13.00 | 31.31 | 145 | 267 | Vertical |
| 6 | 5824.6300 | 50.38 | -44.74 | 33.80 | -55.82 | -13.00 | 42.82 | 128 | 108 | Vertical |



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Test Band = LTE Band5_ 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 | 1679.1800 | 91.63 | -48.18 | 25.38 | -26.43 | -13.00 | 13.43 | 215 | 176 | Horizontal |
| 2 | 2518.7700 | 79.55 | -47.21 | 27.83 | -35.08 | -13.00 | 22.08 | 235 | 279 | Horizontal |
| 3 | 3358.2857 | 64.62 | -46.60 | 29.48 | -47.76 | -13.00 | 34.76 | 188 | 279 | Horizontal |
| 4 | 4197.7143 | 57.94 | -45.96 | 31.10 | -52.18 | -13.00 | 39.18 | 146 | 283 | Horizontal |
| 5 | 5037.5400 | 59.59 | -45.65 | 32.90 | -48.42 | -13.00 | 35.42 | 291 | 133 | Horizontal |
| 6 | 5887.1300 | 47.37 | -44.93 | 33.92 | -58.90 | -13.00 | 45.90 | 147 | 0 | 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 | 1679.1800 | 91.74 | -48.18 | 25.38 | -26.32 | -13.00 | 13.32 | 216 | 134 | Vertical |
| 2 | 2518.7700 | 78.01 | -47.21 | 27.83 | -36.62 | -13.00 | 23.62 | 236 | 227 | Vertical |
| 3 | 3358.3600 | 67.95 | -46.60 | 29.48 | -44.43 | -13.00 | 31.43 | 185 | 81 | Vertical |
| 4 | 4197.7143 | 59.66 | -45.96 | 31.10 | -50.46 | -13.00 | 37.46 | 236 | 279 | Vertical |
| 5 | 5037.5400 | 57.28 | -45.65 | 32.90 | -50.73 | -13.00 | 37.73 | 236 | 294 | Vertical |
| 6 | 5887.1300 | 48.06 | -44.93 | 33.92 | -58.21 | -13.00 | 45.21 | 291 | 336 | 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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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