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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) | ERP (dBm) | Limit (dBm) | Verdict |
|-------|-----------|------------|---------|---------------------|-------------|--------------|----------------|---------|
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | 23.04 | 21.39 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#2 | 23.15 | 21.5 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#5 | 23.09 | 21.44 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 22.25 | 20.6 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | 23.02 | 21.37 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#2 | 23.55 | 21.9 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#5 | 23.17 | 21.52 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | 22.37 | 20.72 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | 23.3 | 21.65 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#2 | 23.39 | 21.74 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#5 | 23.07 | 21.42 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 22.32 | 20.67 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | 22.17 | 20.52 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#2 | 22.19 | 20.54 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#5 | 22.27 | 20.62 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 21.2 | 19.55 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | 22.12 | 20.47 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#2 | 22.16 | 20.51 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#5 | 22.22 | 20.57 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | 21.3 | 19.65 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | 22.24 | 20.59 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#2 | 22.1 | 20.45 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#5 | 22.21 | 20.56 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 21.33 | 19.68 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | 23.09 | 21.44 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#8 | 23.17 | 21.52 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#14 | 23.26 | 21.61 | 38.45 | PASS |



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|-------|------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 22.23 | 20.58 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | 23.25 | 21.6 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#8 | 23.29 | 21.64 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#14 | 23.25 | 21.6 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | 22.45 | 20.8 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | 22.98 | 21.33 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#8 | 23.15 | 21.5 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#14 | 23.26 | 21.61 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 22.32 | 20.67 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 22.15 | 20.5 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#8 | 22.16 | 20.51 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#14 | 22.11 | 20.46 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 21.18 | 19.53 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 22.24 | 20.59 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#8 | 22.05 | 20.4 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#14 | 22.51 | 20.86 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 21.38 | 19.73 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 22.11 | 20.46 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#8 | 22.03 | 20.38 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#14 | 22.19 | 20.54 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 21.23 | 19.58 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | 23.05 | 21.4 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#12 | 23.29 | 21.64 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#24 | 23.28 | 21.63 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 22.35 | 20.7 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | 23.2 | 21.55 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#12 | 23.58 | 21.93 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#24 | 23.01 | 21.36 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | 22.39 | 20.74 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | 23.12 | 21.47 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#12 | 23.43 | 21.78 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#24 | 23.39 | 21.74 | 38.45 | PASS |
| | | | | | | | | |



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| | | | | | raye. | 4 01 0 | 0 | |
|-------|-------|-------|-------|--------|-------|--------|-------|------|
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 22.31 | 20.66 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 21.96 | 20.31 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#12 | 22.1 | 20.45 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#24 | 21.9 | 20.25 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 21.3 | 19.65 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 22.11 | 20.46 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#12 | 22.08 | 20.43 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#24 | 21.99 | 20.34 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 21.43 | 19.78 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | 22.15 | 20.5 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#12 | 21.97 | 20.32 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#24 | 22.15 | 20.5 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 21.21 | 19.56 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | 23 | 21.35 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#24 | 23.18 | 21.53 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#49 | 23.41 | 21.76 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 22.37 | 20.72 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | 23.47 | 21.82 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#24 | 23.43 | 21.78 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#49 | 23.19 | 21.54 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 22.47 | 20.82 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | 23.22 | 21.57 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#24 | 23.35 | 21.7 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#49 | 23.35 | 21.7 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 22.46 | 20.81 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 22.03 | 20.38 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#24 | 22.06 | 20.41 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49 | 22.01 | 20.36 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 21.3 | 19.65 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 22.11 | 20.46 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#24 | 22.25 | 20.6 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#49 | 22.15 | 20.5 | 38.45 | PASS |
| | | | | | | | | |



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| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 21.48 | 19.83 | 38.45 | PASS |
|-------|-------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 22.18 | 20.53 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#24 | 22.21 | 20.56 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49 | 22.13 | 20.48 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 21.31 | 19.66 | 38.45 | PASS |



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Field Strength of Spurious Radiation

Test Band = LTE Band 5_ TM1 **Test Channel = Low Channel**

| Final | Final Data List | | | | | | | | | | | |
|-------|-----------------|---------|--------|-------------|--------|--------|--------|--------|-------|------------|--|--|
| NO | Frequency | Reading | Factor | Λ Γ[«ID/»»] | Level | Limit | Margin | Height | Angle | Dolovity | | |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity | | |
| 1 | 1649 | 62.39 | -48.38 | 25.58 | -55.68 | -13.00 | 42.68 | 236 | 360 | Horizontal | | |
| 2 | 2473.77 | 46.01 | -46.96 | 27.85 | -68.36 | -13.00 | 55.36 | 285 | 319 | Horizontal | | |
| 3 | 3298.36 | 43.80 | -46.11 | 29.48 | -68.09 | -13.00 | 55.09 | 241 | 360 | Horizontal | | |
| 4 | 4122.95 | 40.60 | -45.34 | 30.80 | -69.20 | -13.00 | 56.20 | 166 | 3 | Horizontal | | |
| 5 | 4947.54 | 41.73 | -45.08 | 32.48 | -66.14 | -13.00 | 53.14 | 233 | 131 | Horizontal | | |
| 6 | 5772.13 | 40.50 | -43.52 | 33.47 | -64.81 | -13.00 | 51.81 | 241 | 131 | Horizontal | | |

| Fina | Final Data List | | | | | | | | | | | | |
|------|-----------------|---------|--------|-----------|--------|--------|--------|--------|-------|----------|--|--|--|
| NO | Frequency | Reading | Factor | Λ Γ[-ID/] | Level | Limit | Margin | Height | Angle | Dolovitu | | | |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity | | | |
| 1 | 1649 | 56.85 | -48.38 | 25.58 | -61.22 | -13.00 | 48.22 | 263 | 113 | Vertical | | | |
| 2 | 2473.77 | 45.32 | -46.96 | 27.85 | -69.05 | -13.00 | 56.05 | 295 | 346 | Vertical | | | |
| 3 | 3298.36 | 43.80 | -46.11 | 29.48 | -68.09 | -13.00 | 55.09 | 284 | 346 | Vertical | | | |
| 4 | 4122.95 | 40.59 | -45.34 | 30.80 | -69.21 | -13.00 | 56.21 | 144 | 357 | Vertical | | | |
| 5 | 4947.54 | 40.75 | -45.08 | 32.48 | -67.12 | -13.00 | 54.12 | 142 | 6 | Vertical | | | |
| 6 | 5772.13 | 41.30 | -43.52 | 33.47 | -64.01 | -13.00 | 51.01 | 266 | 186 | Vertical | | | |



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Test Band = LTE Band 5_ TM1 Test Channel = Mid Channel

| Final | Final Data List | | | | | | | | | | | |
|-------|-----------------|---------|--------|-----------|--------|--------|--------|--------|-------|------------|--|--|
| NO | Frequency | Reading | Factor | Λ Γ[-ID/1 | Level | Limit | Margin | Height | Angle | Dolovity | | |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity | | |
| 1 | 1664 | 61.12 | -48.34 | 25.57 | -56.91 | -13.00 | 43.91 | 201 | 358 | Horizontal | | |
| 2 | 2496.27 | 49.51 | -46.77 | 27.89 | -64.63 | -13.00 | 51.63 | 174 | 303 | Horizontal | | |
| 3 | 3328.36 | 44.99 | -46.16 | 29.47 | -66.96 | -13.00 | 53.96 | 155 | 359 | Horizontal | | |
| 4 | 4160.45 | 41.02 | -45.23 | 30.86 | -68.61 | -13.00 | 55.61 | 263 | 215 | Horizontal | | |
| 5 | 4992.54 | 41.40 | -45.02 | 32.58 | -66.30 | -13.00 | 53.30 | 252 | 360 | Horizontal | | |
| 6 | 5824.63 | 42.23 | -43.43 | 33.64 | -62.82 | -13.00 | 49.82 | 288 | 70 | Horizontal | | |

| Final | Final Data List | | | | | | | | | | | |
|-------|-----------------|---------|--------|-------------|--------|--------|--------|--------|-------|----------|--|--|
| NO | Frequency | Reading | Factor | Λ Γ[«ID/»»] | Level | Limit | Margin | Height | Angle | Dolovitu | | |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity | | |
| 1 | 1664.18 | 54.65 | -48.34 | 25.57 | -63.38 | -13.00 | 50.38 | 263 | 346 | Vertical | | |
| 2 | 2496.27 | 45.66 | -46.77 | 27.89 | -68.48 | -13.00 | 55.48 | 295 | 332 | Vertical | | |
| 3 | 3328.36 | 45.17 | -46.16 | 29.47 | -66.78 | -13.00 | 53.78 | 241 | 243 | Vertical | | |
| 4 | 4160.45 | 42.16 | -45.23 | 30.86 | -67.47 | -13.00 | 54.47 | 185 | 6 | Vertical | | |
| 5 | 4992.54 | 41.28 | -45.02 | 32.58 | -66.42 | -13.00 | 53.42 | 263 | 0 | Vertical | | |
| 6 | 5824.63 | 42.23 | -43.43 | 33.64 | -62.82 | -13.00 | 49.82 | 241 | 273 | Vertical | | |



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Test Band = LTE Band 5_ TM1 Test Channel = High Channel

| Final | Final Data List | | | | | | | | | | | | |
|-------|-----------------|---------|--------|-----------|--------|--------|--------|--------|-------|------------|--|--|--|
| NO | Frequency | Reading | Factor | Λ Γ[-ID/1 | Level | Limit | Margin | Height | Angle | Delevity | | | |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity | | | |
| 1 | 1679.18 | 56.50 | -48.30 | 25.56 | -61.50 | -13.00 | 48.50 | 201 | 308 | Horizontal | | | |
| 2 | 2518.77 | 45.72 | -46.84 | 27.96 | -68.41 | -13.00 | 55.41 | 144 | 358 | Horizontal | | | |
| 3 | 3358.36 | 44.17 | -46.21 | 29.46 | -67.84 | -13.00 | 54.84 | 252 | 355 | Horizontal | | | |
| 4 | 4197.95 | 39.78 | -45.12 | 30.92 | -69.68 | -13.00 | 56.68 | 263 | 360 | Horizontal | | | |
| 5 | 5037.54 | 40.40 | -44.85 | 32.60 | -67.11 | -13.00 | 54.11 | 268 | 355 | Horizontal | | | |
| 6 | 5887.13 | 42.51 | -43.24 | 33.84 | -62.15 | -13.00 | 49.15 | 241 | 359 | Horizontal | | | |

| Final | Final Data List | | | | | | | | | | | |
|-------|-----------------|---------|--------|-----------|--------|--------|--------|--------|-------|----------|--|--|
| NO. | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Dolovity | | |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity | | |
| 1 | 1679.18 | 50.58 | -48.30 | 25.56 | -67.42 | -13.00 | 54.42 | 245 | 1 | Vertical | | |
| 2 | 2518.77 | 45.92 | -46.84 | 27.96 | -68.21 | -13.00 | 55.21 | 263 | 173 | Vertical | | |
| 3 | 3358.36 | 44.44 | -46.21 | 29.46 | -67.57 | -13.00 | 54.57 | 265 | 274 | Vertical | | |
| 4 | 4197.95 | 40.00 | -45.12 | 30.92 | -69.46 | -13.00 | 56.46 | 285 | 303 | Vertical | | |
| 5 | 5037.54 | 40.56 | -44.85 | 32.60 | -66.95 | -13.00 | 53.95 | 241 | 245 | Vertical | | |
| 6 | 5887.13 | 42.26 | -43.24 | 33.84 | -62.40 | -13.00 | 49.40 | 188 | 357 | 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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