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Appendix B

E-UTRA Band 14



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1 Effective (Isotropic) Radiated Power

1.1 Test Result

| Band | Bandwidth | Modulation | Channel | RB | Result | ERP | Limit | Verdict |
|--------|-----------|------------|---------|---------|--------|-------|-------|---------|
| - III | | 0.001/ | | Config. | (dBm) | (dBm) | (dBm) | D100 |
| Band14 | 5MHz | QPSK | 23305 | 1RB#0 | 23.02 | 20.97 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23305 | 1RB#12 | 24.06 | 22.01 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23305 | 1RB#24 | 23.34 | 21.29 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23305 | 12RB#0 | 21.98 | 19.93 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23305 | 12RB#6 | 22.53 | 20.48 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23305 | 12RB#13 | 22.38 | 20.33 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23305 | 25RB#0 | 22.13 | 20.08 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23330 | 1RB#0 | 22.90 | 20.85 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23330 | 1RB#12 | 23.35 | 21.30 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23330 | 1RB#24 | 23.05 | 21.00 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23330 | 12RB#0 | 22.35 | 20.30 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23330 | 12RB#6 | 22.24 | 20.19 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23330 | 12RB#13 | 22.15 | 20.10 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23330 | 25RB#0 | 22.17 | 20.12 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23355 | 1RB#0 | 23.18 | 21.13 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23355 | 1RB#12 | 22.99 | 20.94 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23355 | 1RB#24 | 22.72 | 20.67 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23355 | 12RB#0 | 22.46 | 20.41 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23355 | 12RB#6 | 22.10 | 20.05 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23355 | 12RB#13 | 21.90 | 19.85 | 34.77 | PASS |
| Band14 | 5MHz | QPSK | 23355 | 25RB#0 | 22.25 | 20.20 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23305 | 1RB#0 | 21.58 | 19.53 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23305 | 1RB#12 | 22.63 | 20.58 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23305 | 1RB#24 | 21.60 | 19.55 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23305 | 12RB#0 | 20.68 | 18.63 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23305 | 12RB#6 | 21.06 | 19.01 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23305 | 12RB#13 | 20.94 | 18.89 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23305 | 25RB#0 | 20.75 | 18.70 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23330 | 1RB#0 | 21.77 | 19.72 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23330 | 1RB#12 | 22.05 | 20.00 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23330 | 1RB#24 | 21.72 | 19.67 | 34.77 | PASS |
| Band14 | 5MHz | 16QAM | 23330 | 12RB#0 | 20.99 | 18.94 | 34.77 | PASS |



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| Band14 5MHz 16QAM 23330 12RB#6 20.71 18.66 34.77 PASS Band14 5MHz 16QAM 23330 12RB#13 20.92 18.87 34.77 PASS Band14 5MHz 16QAM 23330 25RB#0 20.84 18.79 34.77 PASS Band14 5MHz 16QAM 23355 1RB#0 21.77 19.72 34.77 PASS Band14 5MHz 16QAM 23355 1RB#12 21.68 19.63 34.77 PASS Band14 5MHz 16QAM 23355 1RB#24 21.38 19.33 34.77 PASS Band14 5MHz 16QAM 23355 12RB#0 21.01 18.96 34.77 PASS Band14 5MHz 16QAM 23355 12RB#13 20.45 18.40 34.77 PASS Band14 5MHz 16QAM 23355 12RB#13 20.45 18.40 34.77 PASS | | | | | | | | | |
|---|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band14 5MHz 16QAM 23330 25RB#0 20.84 18.79 34.77 PASS Band14 5MHz 16QAM 23355 1RB#0 21.77 19.72 34.77 PASS Band14 5MHz 16QAM 23355 1RB#12 21.68 19.63 34.77 PASS Band14 5MHz 16QAM 23355 12RB#0 21.01 18.96 34.77 PASS Band14 5MHz 16QAM 23355 12RB#0 21.01 18.96 34.77 PASS Band14 5MHz 16QAM 23355 12RB#6 20.55 18.50 34.77 PASS Band14 5MHz 16QAM 23355 12RB#13 20.45 18.40 34.77 PASS Band14 5MHz 16QAM 23355 12RB#13 20.45 18.92 34.77 PASS Band14 10MHz QPSK 23330 1RB#24 24.11 22.06 34.77 PASS | Band14 | 5MHz | 16QAM | 23330 | 12RB#6 | 20.71 | 18.66 | 34.77 | PASS |
| Band14 5MHz 16QAM 23355 1RB#0 21.77 19.72 34.77 PASS Band14 5MHz 16QAM 23355 1RB#12 21.68 19.63 34.77 PASS Band14 5MHz 16QAM 23355 1RB#24 21.38 19.33 34.77 PASS Band14 5MHz 16QAM 23355 12RB#0 21.01 18.96 34.77 PASS Band14 5MHz 16QAM 23355 12RB#6 20.55 18.50 34.77 PASS Band14 5MHz 16QAM 23355 12RB#13 20.45 18.40 34.77 PASS Band14 5MHz 16QAM 23355 25RB#0 20.97 18.92 34.77 PASS Band14 10MHz QPSK 23330 1RB#0 22.93 20.88 34.77 PASS Band14 10MHz QPSK 23330 1RB#49 22.29 20.24 34.77 PASS | Band14 | 5MHz | 16QAM | 23330 | 12RB#13 | 20.92 | 18.87 | 34.77 | PASS |
| Band14 5MHz 16QAM 23355 1RB#12 21.68 19.63 34.77 PASS Band14 5MHz 16QAM 23355 1RB#24 21.38 19.33 34.77 PASS Band14 5MHz 16QAM 23355 12RB#0 21.01 18.96 34.77 PASS Band14 5MHz 16QAM 23355 12RB#6 20.55 18.50 34.77 PASS Band14 5MHz 16QAM 23355 12RB#13 20.45 18.40 34.77 PASS Band14 5MHz 16QAM 23355 25RB#0 20.97 18.92 34.77 PASS Band14 10MHz QPSK 23330 1RB#0 22.93 20.88 34.77 PASS Band14 10MHz QPSK 23330 1RB#24 24.11 22.06 34.77 PASS Band14 10MHz QPSK 23330 25RB#0 22.53 20.48 34.77 PASS | Band14 | 5MHz | 16QAM | 23330 | 25RB#0 | 20.84 | 18.79 | 34.77 | PASS |
| Band14 5MHz 16QAM 23355 1RB#24 21.38 19.33 34.77 PASS Band14 5MHz 16QAM 23355 12RB#0 21.01 18.96 34.77 PASS Band14 5MHz 16QAM 23355 12RB#6 20.55 18.50 34.77 PASS Band14 5MHz 16QAM 23355 12RB#13 20.45 18.40 34.77 PASS Band14 5MHz 16QAM 23355 25RB#0 20.97 18.92 34.77 PASS Band14 10MHz QPSK 23330 1RB#0 22.93 20.88 34.77 PASS Band14 10MHz QPSK 23330 1RB#24 24.11 22.06 34.77 PASS Band14 10MHz QPSK 23330 1RB#49 22.29 20.24 34.77 PASS Band14 10MHz QPSK 23330 25RB#12 22.58 20.53 34.77 PASS | Band14 | 5MHz | 16QAM | 23355 | 1RB#0 | 21.77 | 19.72 | 34.77 | PASS |
| Band14 5MHz 16QAM 23355 12RB#0 21.01 18.96 34.77 PASS Band14 5MHz 16QAM 23355 12RB#6 20.55 18.50 34.77 PASS Band14 5MHz 16QAM 23355 12RB#13 20.45 18.40 34.77 PASS Band14 5MHz 16QAM 23355 25RB#0 20.97 18.92 34.77 PASS Band14 10MHz QPSK 23330 1RB#0 22.93 20.88 34.77 PASS Band14 10MHz QPSK 23330 1RB#24 24.11 22.06 34.77 PASS Band14 10MHz QPSK 23330 1RB#49 22.29 20.24 34.77 PASS Band14 10MHz QPSK 23330 25RB#0 22.53 20.48 34.77 PASS Band14 10MHz QPSK 23330 25RB#12 22.58 20.53 34.77 PASS | Band14 | 5MHz | 16QAM | 23355 | 1RB#12 | 21.68 | 19.63 | 34.77 | PASS |
| Band14 5MHz 16QAM 23355 12RB#6 20.55 18.50 34.77 PASS Band14 5MHz 16QAM 23355 12RB#13 20.45 18.40 34.77 PASS Band14 5MHz 16QAM 23355 25RB#0 20.97 18.92 34.77 PASS Band14 10MHz QPSK 23330 1RB#0 22.93 20.88 34.77 PASS Band14 10MHz QPSK 23330 1RB#24 24.11 22.06 34.77 PASS Band14 10MHz QPSK 23330 1RB#49 22.29 20.24 34.77 PASS Band14 10MHz QPSK 23330 25RB#0 22.53 20.48 34.77 PASS Band14 10MHz QPSK 23330 25RB#12 22.58 20.53 34.77 PASS Band14 10MHz QPSK 23330 25RB#0 21.92 19.87 34.77 PASS | Band14 | 5MHz | 16QAM | 23355 | 1RB#24 | 21.38 | 19.33 | 34.77 | PASS |
| Band14 5MHz 16QAM 23355 12RB#13 20.45 18.40 34.77 PASS Band14 5MHz 16QAM 23355 25RB#0 20.97 18.92 34.77 PASS Band14 10MHz QPSK 23330 1RB#0 22.93 20.88 34.77 PASS Band14 10MHz QPSK 23330 1RB#24 24.11 22.06 34.77 PASS Band14 10MHz QPSK 23330 1RB#49 22.29 20.24 34.77 PASS Band14 10MHz QPSK 23330 25RB#0 22.53 20.48 34.77 PASS Band14 10MHz QPSK 23330 25RB#12 22.58 20.53 34.77 PASS Band14 10MHz QPSK 23330 25RB#25 22.08 20.03 34.77 PASS Band14 10MHz 16QAM 23330 1RB#0 21.75 19.70 34.77 PASS | Band14 | 5MHz | 16QAM | 23355 | 12RB#0 | 21.01 | 18.96 | 34.77 | PASS |
| Band14 5MHz 16QAM 23355 25RB#0 20.97 18.92 34.77 PASS Band14 10MHz QPSK 23330 1RB#0 22.93 20.88 34.77 PASS Band14 10MHz QPSK 23330 1RB#24 24.11 22.06 34.77 PASS Band14 10MHz QPSK 23330 1RB#49 22.29 20.24 34.77 PASS Band14 10MHz QPSK 23330 25RB#0 22.53 20.48 34.77 PASS Band14 10MHz QPSK 23330 25RB#12 22.58 20.53 34.77 PASS Band14 10MHz QPSK 23330 25RB#25 22.08 20.03 34.77 PASS Band14 10MHz QPSK 23330 50RB#0 21.92 19.87 34.77 PASS Band14 10MHz 16QAM 23330 1RB#0 21.75 19.70 34.77 PASS | Band14 | 5MHz | 16QAM | 23355 | 12RB#6 | 20.55 | 18.50 | 34.77 | PASS |
| Band14 10MHz QPSK 23330 1RB#0 22.93 20.88 34.77 PASS Band14 10MHz QPSK 23330 1RB#24 24.11 22.06 34.77 PASS Band14 10MHz QPSK 23330 1RB#49 22.29 20.24 34.77 PASS Band14 10MHz QPSK 23330 25RB#0 22.53 20.48 34.77 PASS Band14 10MHz QPSK 23330 25RB#12 22.58 20.53 34.77 PASS Band14 10MHz QPSK 23330 25RB#25 22.08 20.03 34.77 PASS Band14 10MHz QPSK 23330 50RB#0 21.92 19.87 34.77 PASS Band14 10MHz 16QAM 23330 1RB#0 21.75 19.70 34.77 PASS Band14 10MHz 16QAM 23330 1RB#49 21.28 19.23 34.77 PASS | Band14 | 5MHz | 16QAM | 23355 | 12RB#13 | 20.45 | 18.40 | 34.77 | PASS |
| Band14 10MHz QPSK 23330 1RB#24 24.11 22.06 34.77 PASS Band14 10MHz QPSK 23330 1RB#49 22.29 20.24 34.77 PASS Band14 10MHz QPSK 23330 25RB#0 22.53 20.48 34.77 PASS Band14 10MHz QPSK 23330 25RB#12 22.58 20.53 34.77 PASS Band14 10MHz QPSK 23330 25RB#25 22.08 20.03 34.77 PASS Band14 10MHz QPSK 23330 50RB#0 21.92 19.87 34.77 PASS Band14 10MHz 16QAM 23330 1RB#0 21.75 19.70 34.77 PASS Band14 10MHz 16QAM 23330 1RB#24 21.98 19.93 34.77 PASS Band14 10MHz 16QAM 23330 25RB#0 21.03 18.98 34.77 PASS <t< td=""><td>Band14</td><td>5MHz</td><td>16QAM</td><td>23355</td><td>25RB#0</td><td>20.97</td><td>18.92</td><td>34.77</td><td>PASS</td></t<> | Band14 | 5MHz | 16QAM | 23355 | 25RB#0 | 20.97 | 18.92 | 34.77 | PASS |
| Band14 10MHz QPSK 23330 1RB#49 22.29 20.24 34.77 PASS Band14 10MHz QPSK 23330 25RB#0 22.53 20.48 34.77 PASS Band14 10MHz QPSK 23330 25RB#12 22.58 20.53 34.77 PASS Band14 10MHz QPSK 23330 25RB#25 22.08 20.03 34.77 PASS Band14 10MHz QPSK 23330 50RB#0 21.92 19.87 34.77 PASS Band14 10MHz 16QAM 23330 1RB#0 21.75 19.70 34.77 PASS Band14 10MHz 16QAM 23330 1RB#24 21.98 19.93 34.77 PASS Band14 10MHz 16QAM 23330 1RB#49 21.28 19.23 34.77 PASS Band14 10MHz 16QAM 23330 25RB#12 21.03 18.98 34.77 PASS | Band14 | 10MHz | QPSK | 23330 | 1RB#0 | 22.93 | 20.88 | 34.77 | PASS |
| Band14 10MHz QPSK 23330 25RB#0 22.53 20.48 34.77 PASS Band14 10MHz QPSK 23330 25RB#12 22.58 20.53 34.77 PASS Band14 10MHz QPSK 23330 25RB#25 22.08 20.03 34.77 PASS Band14 10MHz QPSK 23330 50RB#0 21.92 19.87 34.77 PASS Band14 10MHz 16QAM 23330 1RB#0 21.75 19.70 34.77 PASS Band14 10MHz 16QAM 23330 1RB#24 21.98 19.93 34.77 PASS Band14 10MHz 16QAM 23330 1RB#49 21.28 19.23 34.77 PASS Band14 10MHz 16QAM 23330 25RB#0 21.03 18.98 34.77 PASS Band14 10MHz 16QAM 23330 25RB#12 21.11 19.06 34.77 PASS | Band14 | 10MHz | QPSK | 23330 | 1RB#24 | 24.11 | 22.06 | 34.77 | PASS |
| Band14 10MHz QPSK 23330 25RB#12 22.58 20.53 34.77 PASS Band14 10MHz QPSK 23330 25RB#25 22.08 20.03 34.77 PASS Band14 10MHz QPSK 23330 50RB#0 21.92 19.87 34.77 PASS Band14 10MHz 16QAM 23330 1RB#0 21.75 19.70 34.77 PASS Band14 10MHz 16QAM 23330 1RB#24 21.98 19.93 34.77 PASS Band14 10MHz 16QAM 23330 1RB#49 21.28 19.23 34.77 PASS Band14 10MHz 16QAM 23330 25RB#0 21.03 18.98 34.77 PASS Band14 10MHz 16QAM 23330 25RB#12 21.11 19.06 34.77 PASS Band14 10MHz 16QAM 23330 25RB#25 20.63 18.58 34.77 PASS < | Band14 | 10MHz | QPSK | 23330 | 1RB#49 | 22.29 | 20.24 | 34.77 | PASS |
| Band14 10MHz QPSK 23330 25RB#25 22.08 20.03 34.77 PASS Band14 10MHz QPSK 23330 50RB#0 21.92 19.87 34.77 PASS Band14 10MHz 16QAM 23330 1RB#0 21.75 19.70 34.77 PASS Band14 10MHz 16QAM 23330 1RB#24 21.98 19.93 34.77 PASS Band14 10MHz 16QAM 23330 1RB#49 21.28 19.23 34.77 PASS Band14 10MHz 16QAM 23330 25RB#0 21.03 18.98 34.77 PASS Band14 10MHz 16QAM 23330 25RB#12 21.11 19.06 34.77 PASS Band14 10MHz 16QAM 23330 25RB#25 20.63 18.58 34.77 PASS | Band14 | 10MHz | QPSK | 23330 | 25RB#0 | 22.53 | 20.48 | 34.77 | PASS |
| Band14 10MHz QPSK 23330 50RB#0 21.92 19.87 34.77 PASS Band14 10MHz 16QAM 23330 1RB#0 21.75 19.70 34.77 PASS Band14 10MHz 16QAM 23330 1RB#24 21.98 19.93 34.77 PASS Band14 10MHz 16QAM 23330 1RB#49 21.28 19.23 34.77 PASS Band14 10MHz 16QAM 23330 25RB#0 21.03 18.98 34.77 PASS Band14 10MHz 16QAM 23330 25RB#12 21.11 19.06 34.77 PASS Band14 10MHz 16QAM 23330 25RB#25 20.63 18.58 34.77 PASS | Band14 | 10MHz | QPSK | 23330 | 25RB#12 | 22.58 | 20.53 | 34.77 | PASS |
| Band14 10MHz 16QAM 23330 1RB#0 21.75 19.70 34.77 PASS Band14 10MHz 16QAM 23330 1RB#24 21.98 19.93 34.77 PASS Band14 10MHz 16QAM 23330 1RB#49 21.28 19.23 34.77 PASS Band14 10MHz 16QAM 23330 25RB#0 21.03 18.98 34.77 PASS Band14 10MHz 16QAM 23330 25RB#12 21.11 19.06 34.77 PASS Band14 10MHz 16QAM 23330 25RB#25 20.63 18.58 34.77 PASS | Band14 | 10MHz | QPSK | 23330 | 25RB#25 | 22.08 | 20.03 | 34.77 | PASS |
| Band14 10MHz 16QAM 23330 1RB#24 21.98 19.93 34.77 PASS Band14 10MHz 16QAM 23330 1RB#49 21.28 19.23 34.77 PASS Band14 10MHz 16QAM 23330 25RB#0 21.03 18.98 34.77 PASS Band14 10MHz 16QAM 23330 25RB#12 21.11 19.06 34.77 PASS Band14 10MHz 16QAM 23330 25RB#25 20.63 18.58 34.77 PASS | Band14 | 10MHz | QPSK | 23330 | 50RB#0 | 21.92 | 19.87 | 34.77 | PASS |
| Band14 10MHz 16QAM 23330 1RB#49 21.28 19.23 34.77 PASS Band14 10MHz 16QAM 23330 25RB#0 21.03 18.98 34.77 PASS Band14 10MHz 16QAM 23330 25RB#12 21.11 19.06 34.77 PASS Band14 10MHz 16QAM 23330 25RB#25 20.63 18.58 34.77 PASS | Band14 | 10MHz | 16QAM | 23330 | 1RB#0 | 21.75 | 19.70 | 34.77 | PASS |
| Band14 10MHz 16QAM 23330 25RB#0 21.03 18.98 34.77 PASS Band14 10MHz 16QAM 23330 25RB#12 21.11 19.06 34.77 PASS Band14 10MHz 16QAM 23330 25RB#25 20.63 18.58 34.77 PASS | Band14 | 10MHz | 16QAM | 23330 | 1RB#24 | 21.98 | 19.93 | 34.77 | PASS |
| Band14 10MHz 16QAM 23330 25RB#12 21.11 19.06 34.77 PASS Band14 10MHz 16QAM 23330 25RB#25 20.63 18.58 34.77 PASS | Band14 | 10MHz | 16QAM | 23330 | 1RB#49 | 21.28 | 19.23 | 34.77 | PASS |
| Band14 10MHz 16QAM 23330 25RB#25 20.63 18.58 34.77 PASS | Band14 | 10MHz | 16QAM | 23330 | 25RB#0 | 21.03 | 18.98 | 34.77 | PASS |
| | Band14 | 10MHz | 16QAM | 23330 | 25RB#12 | 21.11 | 19.06 | 34.77 | PASS |
| Band14 10MHz 16QAM 23330 27RB#0 20.86 18.81 34.77 PASS | Band14 | 10MHz | 16QAM | 23330 | 25RB#25 | 20.63 | 18.58 | 34.77 | PASS |
| | Band14 | 10MHz | 16QAM | 23330 | 27RB#0 | 20.86 | 18.81 | 34.77 | PASS |

Remark

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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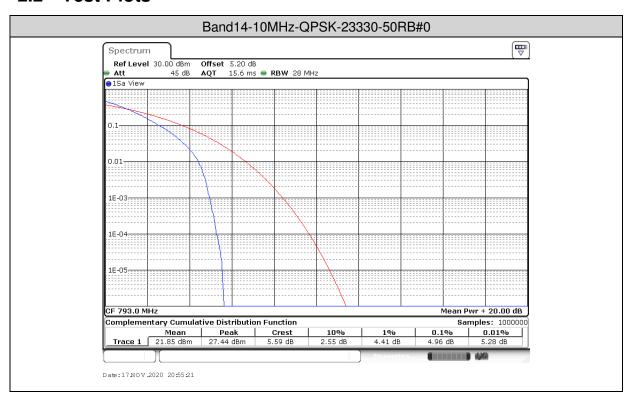
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Peak-to-Average Ratio (CCDF)

2.1 **Test Result**

| | Band | Bandwidt h | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|---|--------|---------------|------------|---------|------------------|------------|-----------|---------|
| Ī | Band14 | 10MHz | QPSK | 23330 | 50RB#0 | 4.96 | 13 | PASS |
| Ī | Band14 | 10MHz | 16QAM | 23330 | 27RB#0 | 5.68 | 13 | PASS |

2.2 Test Plots

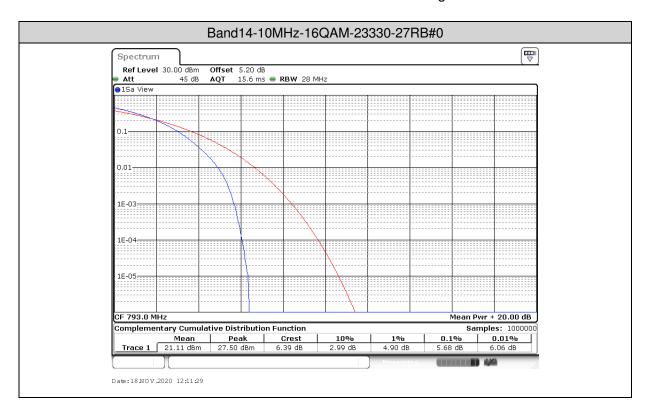




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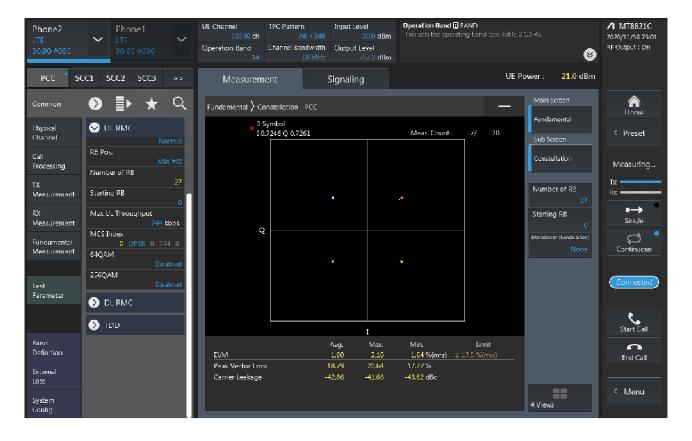
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Modulation Characteristics

3.1 Test Mode = LTE /TM1 10MHz

Test Channel = MCH 3.1.1



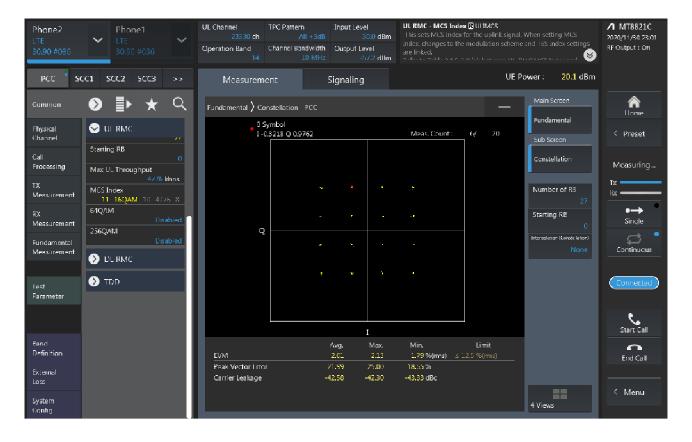


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3.2 Test Mode = LTE /TM2 10MHz

3.2.1 Test Channel = MCH





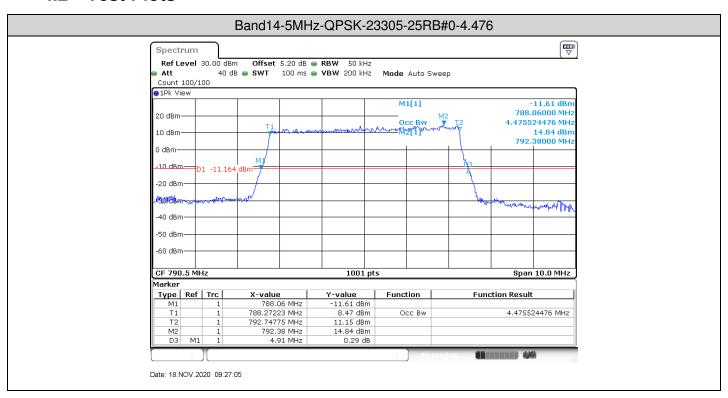
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4 26dB Bandwidth and Occupied Bandwidth

4.1 Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------------|-------------------------|---------|
| Band14 | 5MHz | QPSK | 23305 | 25RB#0 | 4.476 | 4.910 | PASS |
| Band14 | 5MHz | QPSK | 23330 | 25RB#0 | 4.466 | 4.890 | PASS |
| Band14 | 5MHz | QPSK | 23355 | 25RB#0 | 4.456 | 4.900 | PASS |
| Band14 | 5MHz | 16QAM | 23305 | 25RB#0 | 4.486 | 4.930 | PASS |
| Band14 | 5MHz | 16QAM | 23330 | 25RB#0 | 4.476 | 4.930 | PASS |
| Band14 | 5MHz | 16QAM | 23355 | 25RB#0 | 4.476 | 4.940 | PASS |
| Band14 | 10MHz | QPSK | 23330 | 50RB#0 | 8.911 | 9.660 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 27RB#0 | 4.855 | 5.680 | PASS |

4.2 Test Plots



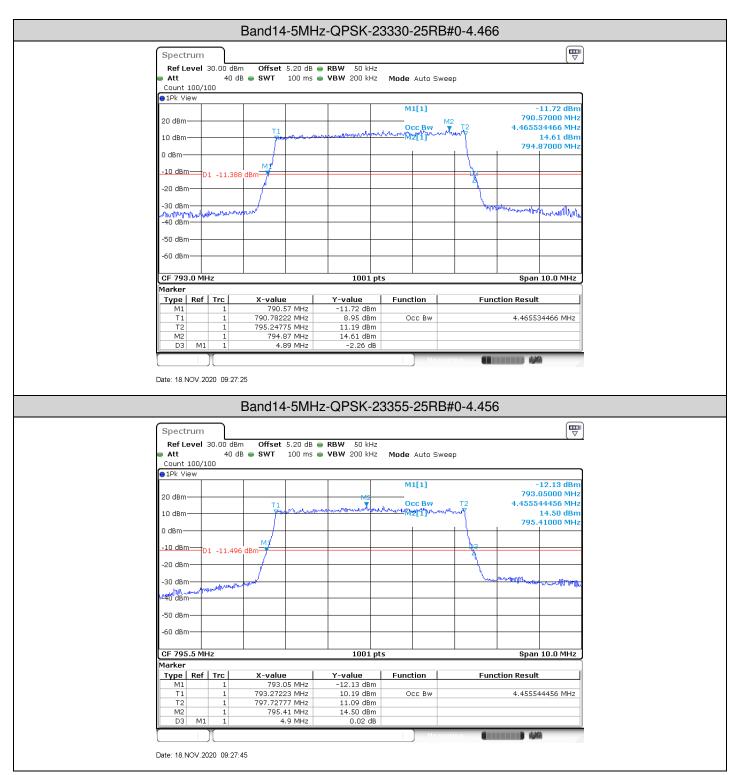


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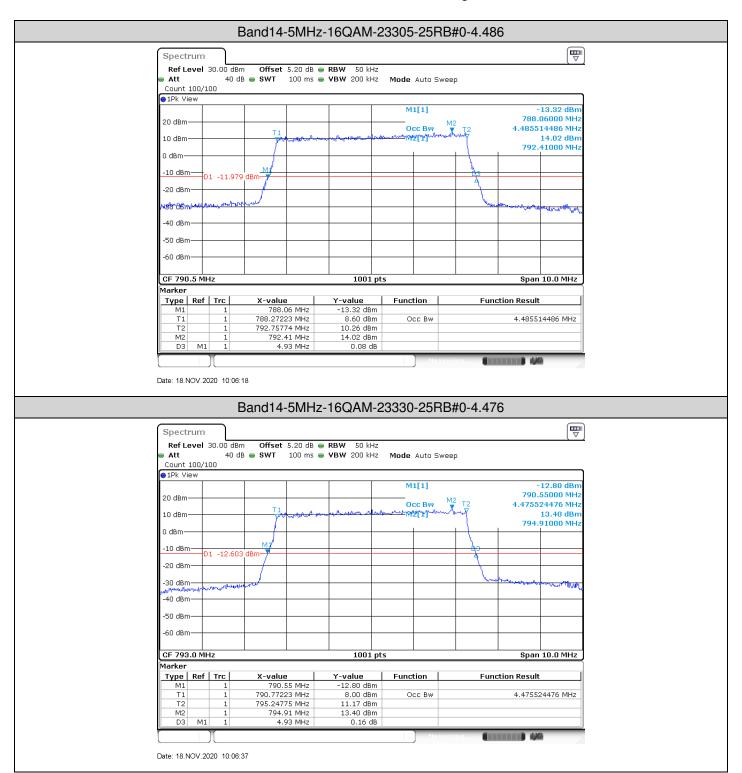


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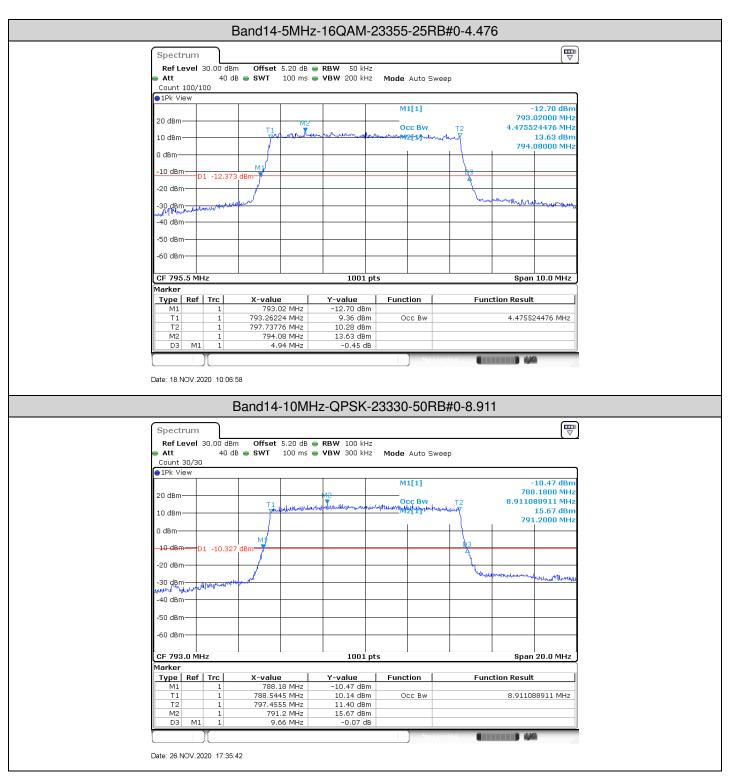


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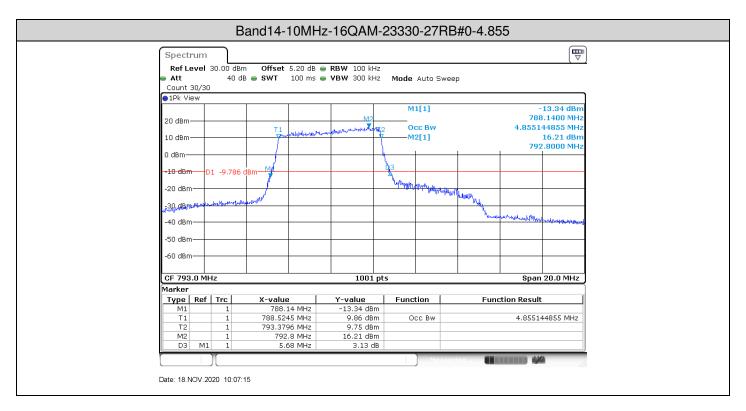


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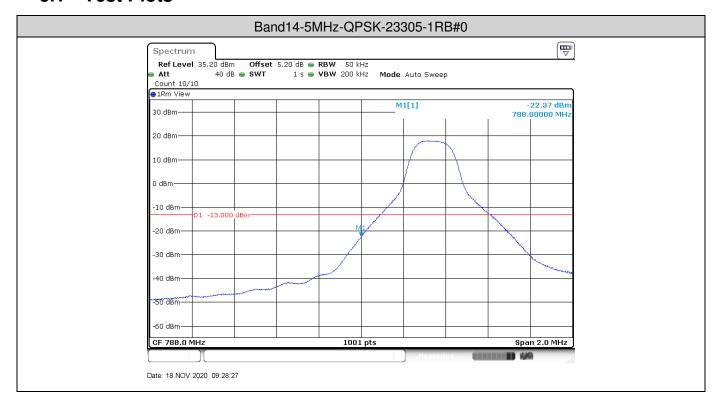
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Band Edge Compliance

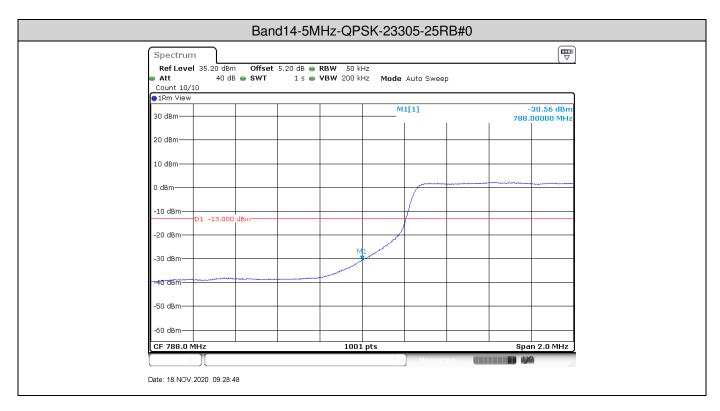
Test Plots 5.1





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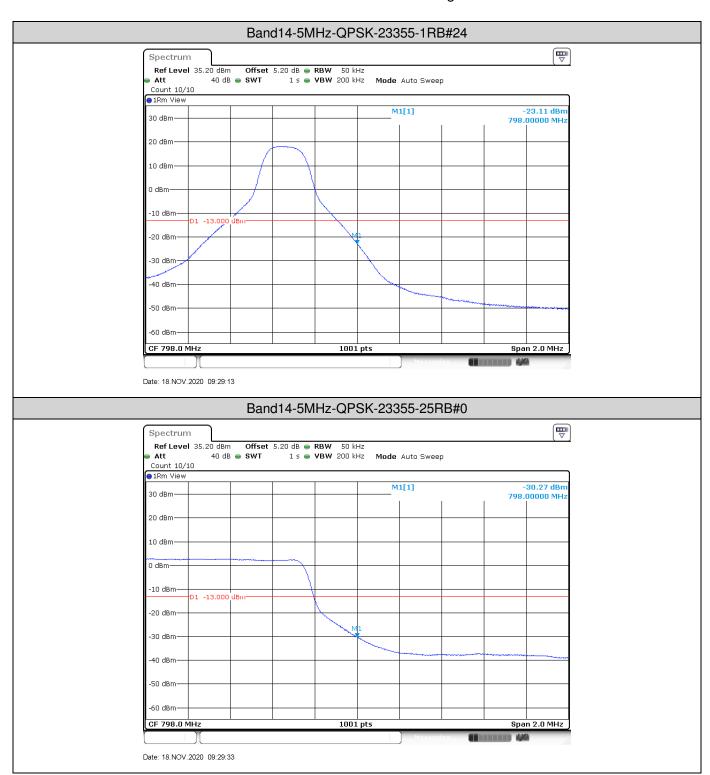


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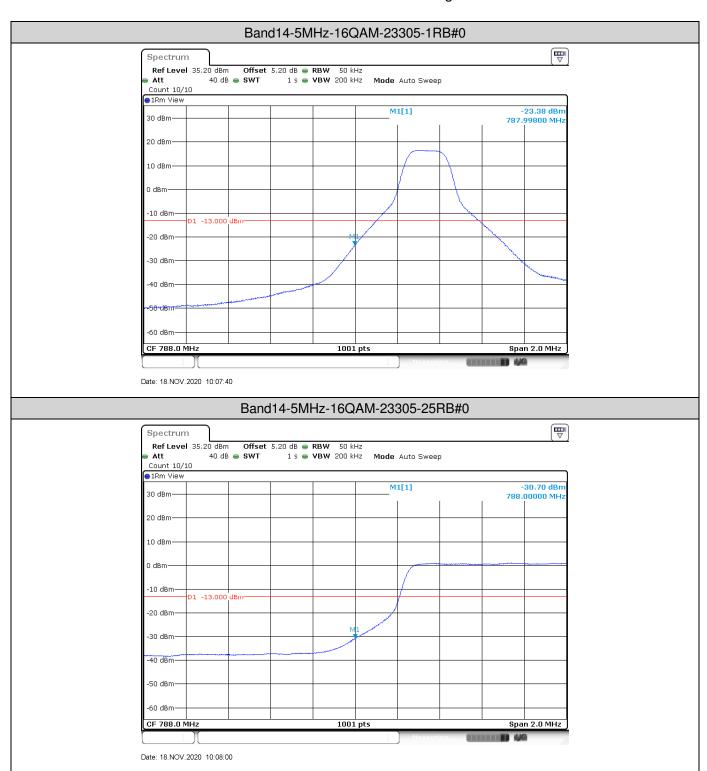


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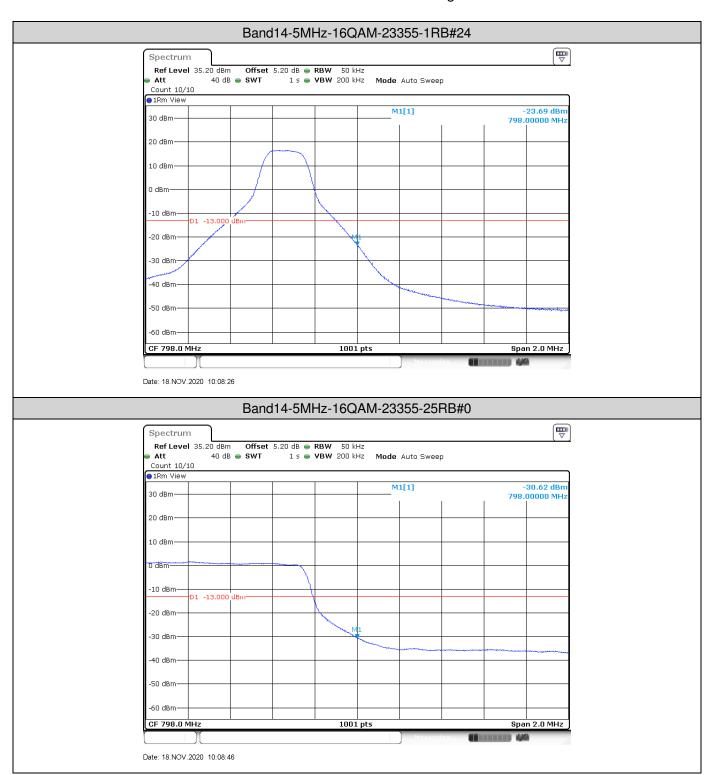


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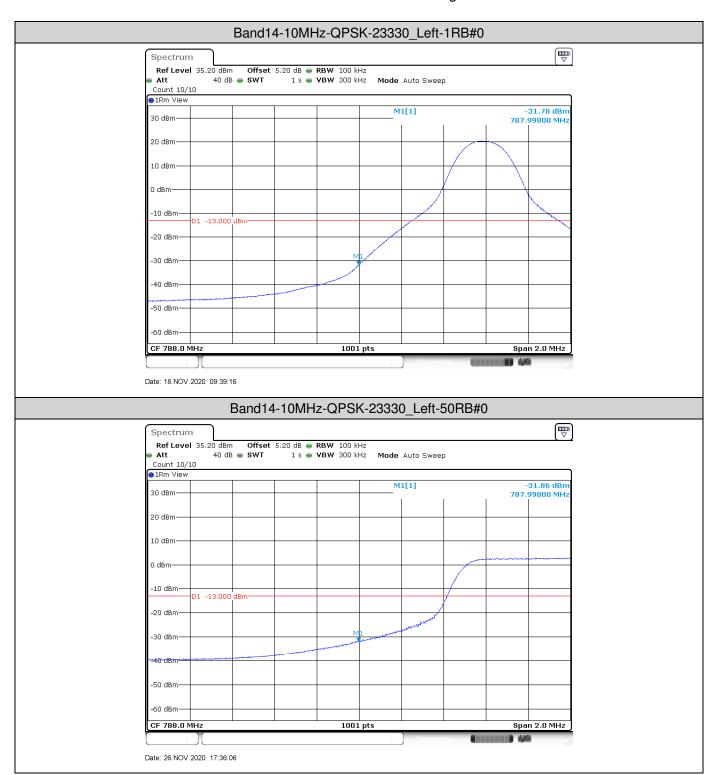
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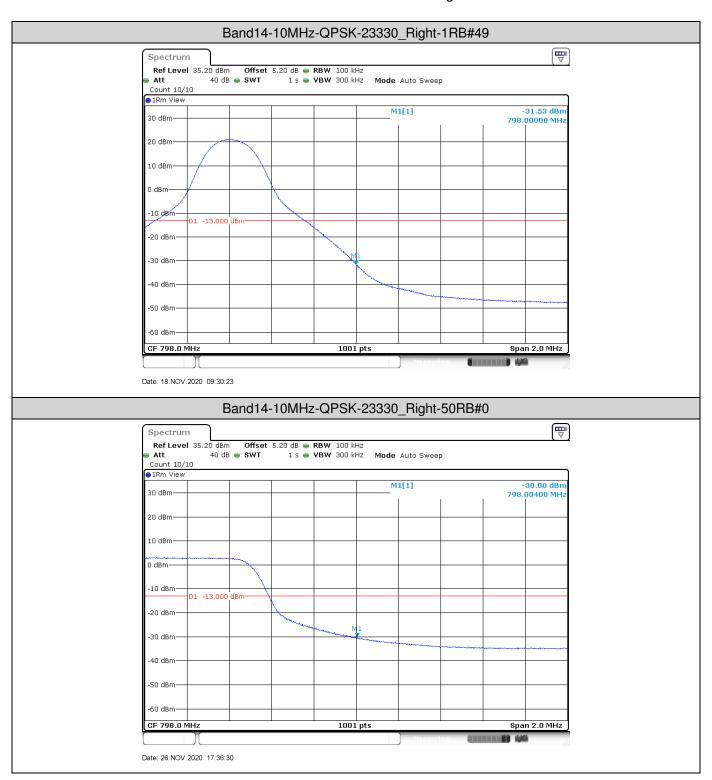
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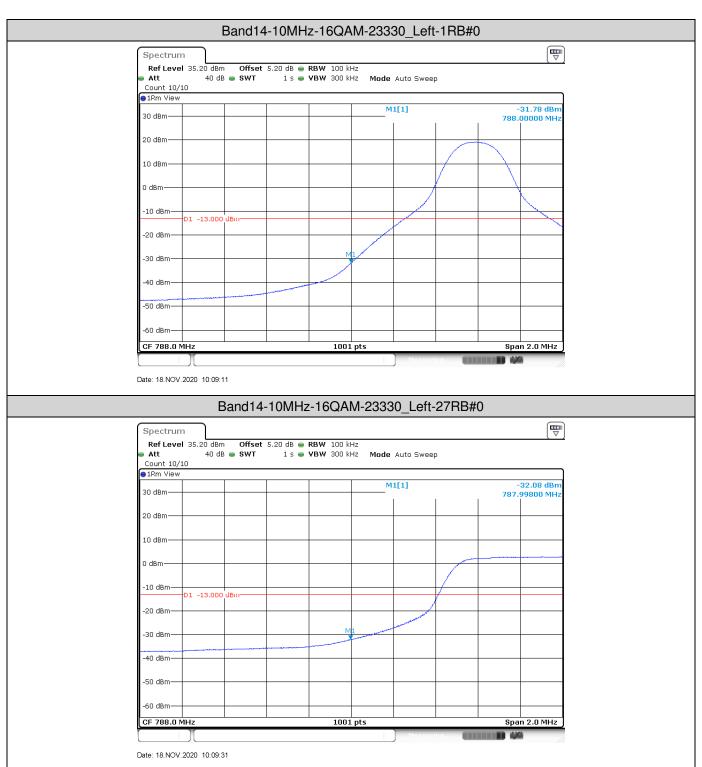


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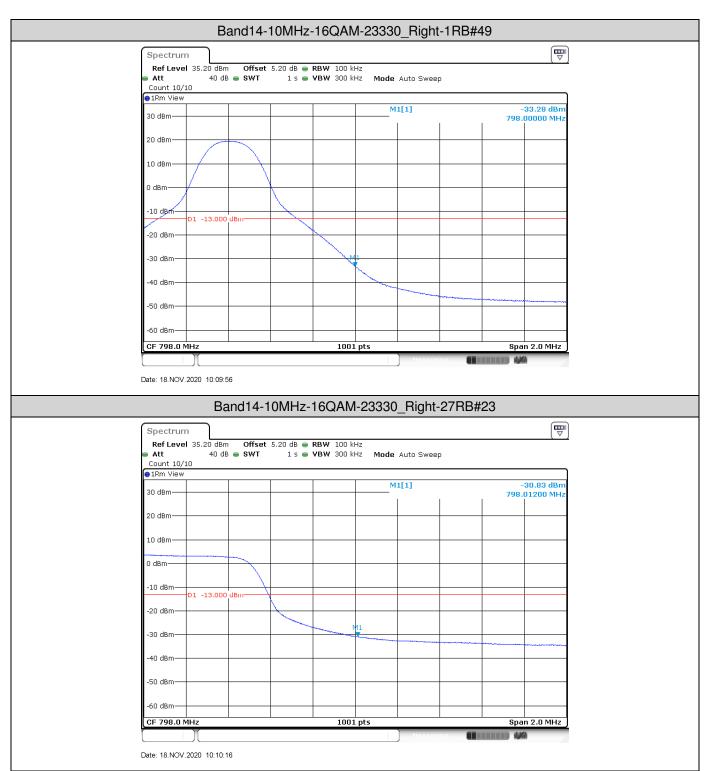


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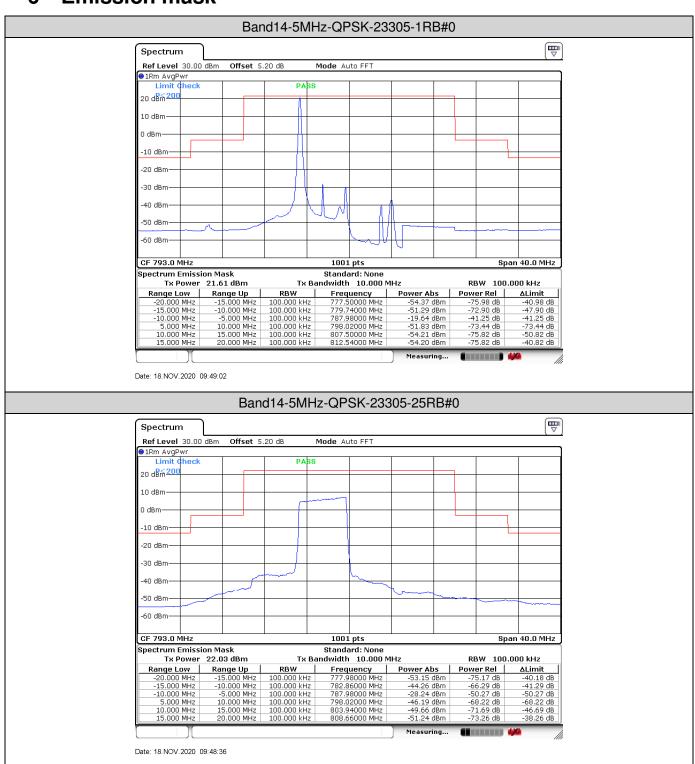


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6 Emission mask



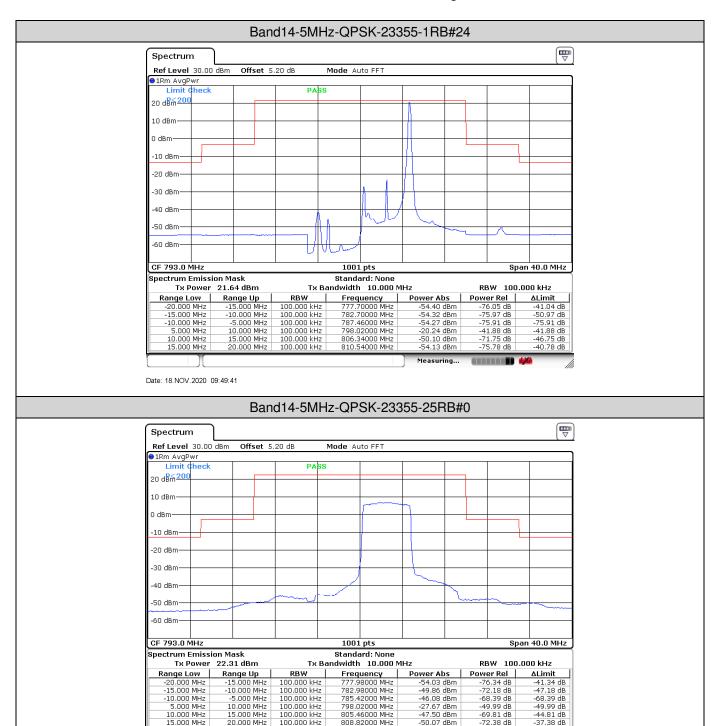


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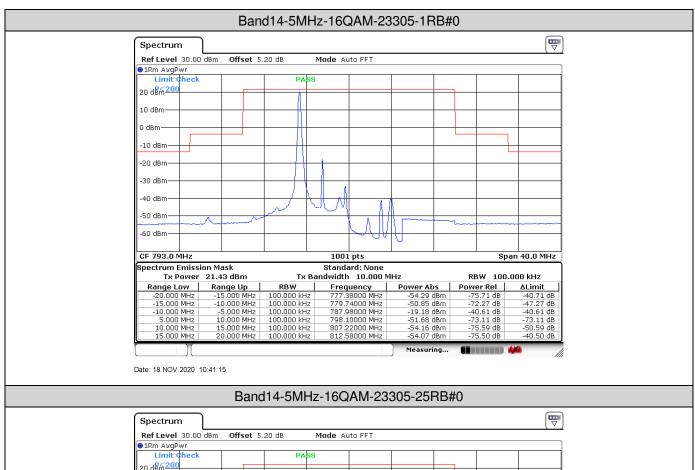
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| pectrum | | | | | | |
|----------------------------|---------------------------|----------------------------|--------------------------------|--------------------------|------------------------|------------------------|
| Ref Level 30.00 | dBm Offset 5 | .20 dB N | 1ode Auto FFT | | | • |
| 1Rm AvgPwr | | | | | | |
| Limit Check | | PASS | | | | |
| o d <mark>8</mark> 6200 | | | | | | |
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| | | | | | | |
| F 793.0 MHz | | | 1001 pts | | Sį | oan 40.0 MHz |
| ectrum Emissi | on Mask | | Standard: None | | | |
| Tx Power | 22.09 dBm | Tx Ba | ndwidth 10.000 M | lHz | RBW 100 |).000 kHz |
| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
| -20.000 MHz | -15.000 MHz | 100.000 kHz | 777.78000 MHz | -51.05 dBm | -73.15 dB | -38.15 dB |
| -15.000 MHz -10.000 MHz | -10.000 MHz -5.000 MHz | 100.000 kHz 100.000 kHz | 782.90000 MHz 787.98000 MHz | -42.86 dBm -27.35 dBm | -64.95 dB -49.44 dB | -39.95 dB -49.44 dB |
| 5.000 MHz | -5.000 MHz | 100.000 kHz | 787.98000 MHz | -27.35 aBm -46.32 dBm | -49.44 dB -68.41 dB | -49.44 dB -68.41 dB |
| 10.000 MHz | 15.000 MHz | 100.000 kHz | 804.82000 MHz | -49.46 dBm | -71.56 dB | -46.56 dB |
| 15.000 MHz | 20.000 MHz | 100.000 kHz | 808.30000 MHz | -50.74 dBm | -72.83 dB | -37.83 dB |
| | | | | 1 | | |
| | | | | Measuring | | A MARK |

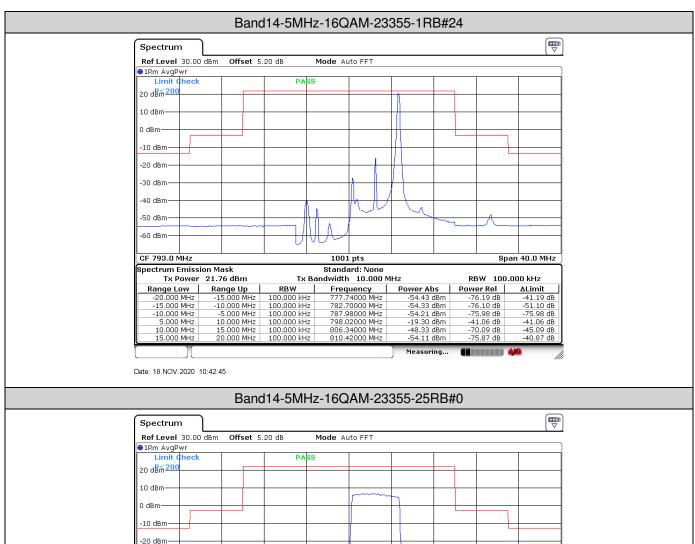


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| 1Rm AvgPwr | | | | | | | | | |
|--------------------------|--------------------------|----------------------------|----------|--|----------------------|----|----|--------------------|------------------------|
| Limit Check | | PASS | ; | | | | | | |
| 200 dBm ²⁰⁰ | | | | | | | 1 | | |
| | | | | | | | | | |
| .0 dBm- | | | | | | | - | | |
| | | | | | \vdash | | | | |
| ı dBm | | | | | | | | | |
| | | | | | | | | l l | |
| 10 dBm | | | | | | | | | |
| 00 40 | | | | l | 1.1 | | | | |
| 20 dBm | | | | | | | | | |
| 30 dBm | | | | | 1 \ | | | | |
| 30 UBIII | | | ر | | | | | | |
| 40 dBm | | | _/_ | | _ | | | | |
| TO GOIII | | سرا ا | | | | 1 | | | |
| 50 dBm- | | | | | | _ | | | |
| | | | | | | | | | |
| 60 dBm- | | | | | | | | | |
| | | | | | | | | | |
| CF 793.0 MHz | l . | | 1001 | pts | | | | Sp | an 40.0 MHz |
| pectrum Emissi | ion Mask | | Standa | ard: None | | | | | |
| Tx Power | 22.25 dBm | Tx B | andwidth | 10.000 № | 1Hz | | RE | 3W 100. | .000 kHz |
| Range Low | Range Up | RBW | | uency | Power Ab | | | er Rel | ΔLimit |
| -20.000 MHz | -15.000 MHz | 100.000 kHz | | 8000 MHz | -53.57 (| | | 5.82 dB | -40.82 dB |
| -15.000 MHz | -10.000 MHz | 100.000 kHz | | 4000 MHz | -48.67 | | | 0.92 dB | -45.92 dB |
| -10.000 MHz 5.000 MHz | -5.000 MHz 10.000 MHz | 100.000 kHz 100.000 kHz | | 8000 MHz | -45.75 (-26.90 (| | | 3.00 dB 9.14 dB | -68.00 dB -49.14 dB |
| 10.000 MHz | 15.000 MHz | 100.000 kHz | | 6000 MHz | -26.90 (-46.38 (| | | 3.63 dB | -49.14 dB -43.63 dB |
| 15.000 MHz | 20.000 MHz | 100.000 kHz | | 6000 MHz | -49.20 | | | 1.45 dB | -36.45 dB |
| - 10 | | | | |) | | | | 4.14% |
| | | | | | Measuri | na | | | |

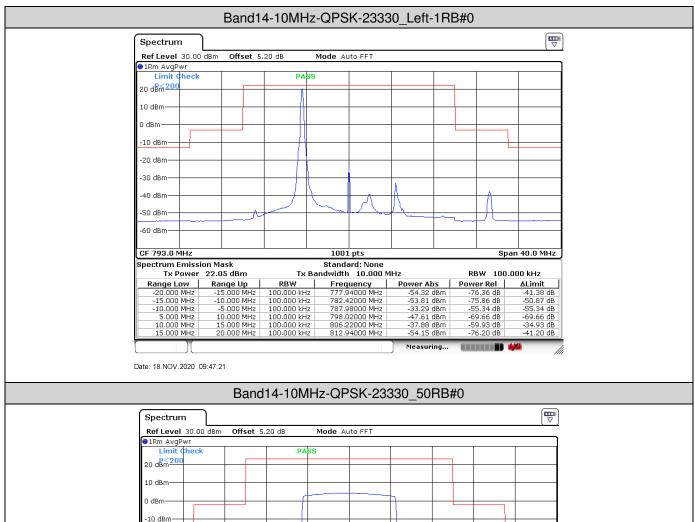


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| 1Rm AvgPwr | | | | | | |
|--------------------------|--------------------------|--|--------------------------------|--------------------------|------------------------|------------------------|
| Limit Check | | PASS | | | | |
| o dBM 200 | | | | | ¬ | |
| tu abm | | | | | | |
| 0.40 | | | | | | |
| .0 dBm | | | | | | |
| | | | | | | |
|) dBm | | | | | | |
| | | 1 (1 | | 11 | | |
| 10 dBm | | | | | | |
| | | | | | | |
| 20 dBm | | | | + | | |
| | | | | | | |
| 30 dBm | | | | | | |
| | | | | | _ | |
| 40 dBm | | | | | _ | _ |
| | | | | | \h | |
| 50 dBm | | | | | | |
| | | | | | | |
| 60 dBm | | | | | | _ |
| | | | | | | |
| | | | | | | |
| CF 793.0 MHz | | | 1001 pts | | Sp | an 40.0 MH: |
| pectrum Emissi | | | Standard: None | | | |
| Tx Power | 22.97 dBm | | ndwidth 10.000 M | | RBW 100. | |
| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
| -20.000 MHz | -15.000 MHz | 100.000 kHz | 777.74000 MHz | -49.93 dBm | -72.90 dB | -37.90 dE |
| -15.000 MHz | -10.000 MHz | 100.000 kHz | 782.50000 MHz | -42.64 dBm | -65.60 dB | -40.60 dE |
| -10.000 MHz | -5.000 MHz | 100.000 kHz | 787.98000 MHz | -31.28 dBm | -54.25 dB | -54.25 dE |
| 5.000 MHz | 10.000 MHz | 100.000 kHz | 798.02000 MHz | -29.97 dBm | -52.93 dB | -52.93 dB |
| 10.000 MHz 15.000 MHz | 15.000 MHz 20.000 MHz | 100.000 kHz 100.000 kHz | 803.02000 MHz 808.26000 MHz | -37.33 dBm -46.64 dBm | -60.30 dB -69.61 dB | -35.30 dE -34.61 dE |
| | | | 000.20000 MHZ | -40.04 UDIII | | |

Date: 26.NOV.2020 17:45:19

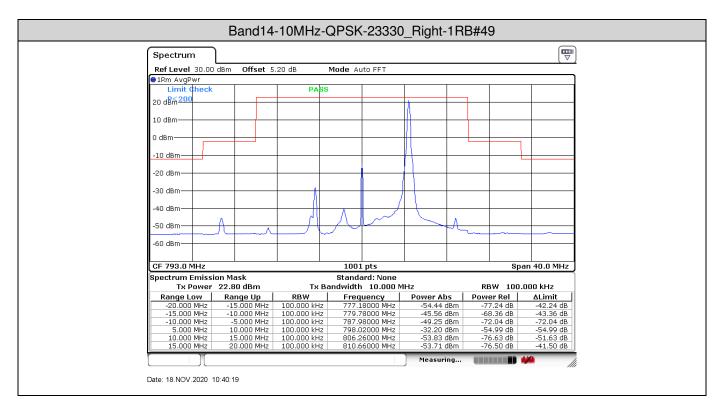


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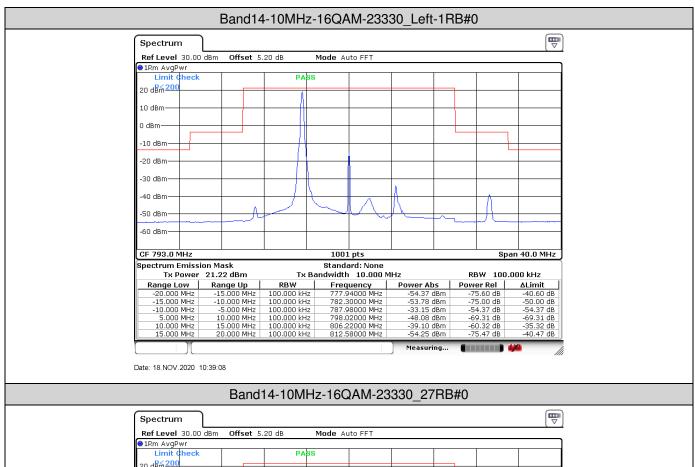


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| Ref Level 30.00 | dBm Offset 5 | .20 dB | Mode Au | uto FFT | | | | | |
|--------------------------|--------------|----------------------------|----------|-----------|----------------------|-------------|-------|----------------|------------------------|
| 1Rm AvgPwr | | | | | | | | | |
| Limit Check | | PASS | | | | | | | |
| 20 dBრ <mark>200</mark> | | | | | | | | | |
| O UBIII | | | | | | | | | |
| .0 dBm | | | | | | | | | |
| .o ubiii | | | | | | Ì | | | |
| ı dBm | | | ſ | | | | | | |
| , apin | | | 1 | | | L | | | |
| 10 dBm | | | | | | | | | |
| | | | | | | | | | |
| 20 dBm | | | | | | | | | |
| | | | | | I 1 | | | | |
| 30 dBm- | | | | | | | | | |
| | | | | | | | | | |
| 40 dBm | | | | | | | | | |
| | | | | | | ~ | _ | | |
| 50 dBm- | | | | | | | | | - |
| | | | | | | | | | |
| 60 dBm | | | | | | | | | |
| | | | | | | | | | |
| CF 793.0 MHz | <u> </u> | | 1001 | pts | 1 | | - 1 | Sp | an 40.0 MHz |
| pectrum Emissi | on Mask | | Standa | ard: None | | | | | |
| Tx Power | 21.39 dBm | Tx B | andwidth | 10.000 M | Hz | | RBV | V 100. | 000 kHz |
| Range Low | Range Up | RBW | Freq | uency | Power Ab | s | Power | Rel | ΔLimit |
| -20.000 MHz | -15.000 MHz | 100.000 kHz | | 98000 MHz | -53.78 d | | | 17 dB | -40.17 dB |
| -15.000 MHz | -10.000 MHz | 100.000 kHz | | 98000 MHz | -48.21 d | | | 59 dB | -44.59 dB |
| -10.000 MHz | -5.000 MHz | 100.000 kHz | | 98000 MHz | -43.92 d | | | 31 dB | -65.31 dB |
| 5.000 MHz | 10.000 MHz | 100.000 kHz | | 2000 MHz | -31.19 d | | | 57 dB | -52.57 dB |
| 10.000 MHz 15.000 MHz | 15.000 MHz | 100.000 kHz 100.000 kHz | | 06000 MHz | -46.56 d -50.09 d | | | 95 dB 48 dB | -42.95 dB -36.48 dB |
| 19.000 MHZ | 20.000 MHz | 100.000 KHZ | 808.1 | 18000 MHz | -50.09 0 | DIII | -/1. | +o uB | -30.48 QB |
| | | | | | Measurii | | | | |

Date: 18.NOV.2020 10:38:39

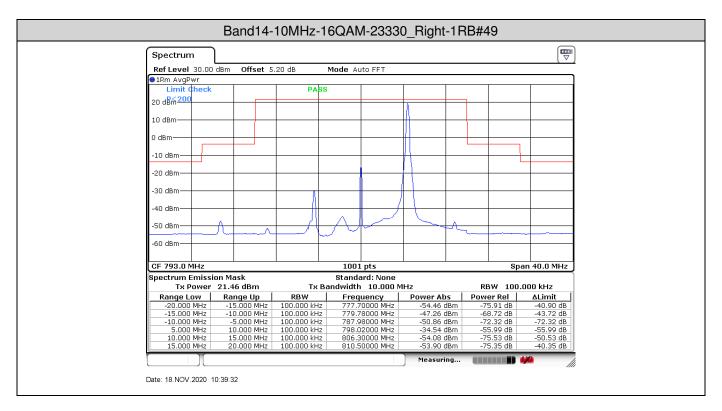


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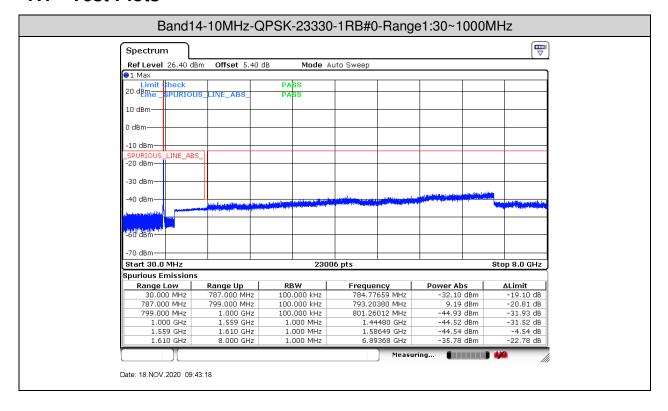
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Spurious Emission at Antenna Terminal 7

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

7.1 **Test Plots**

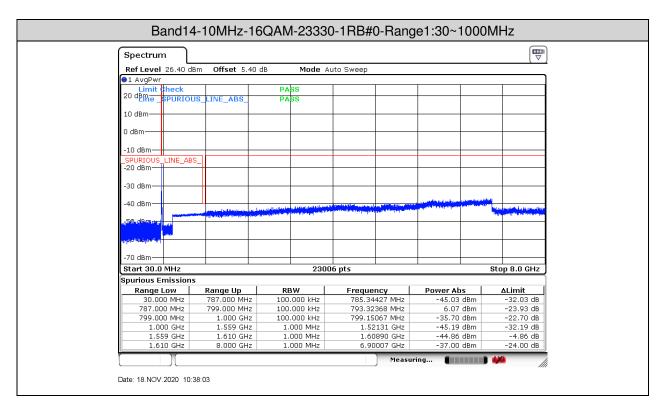






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Field Strength of Spurious Radiation

8.1 Test Mode =LTE/TM1 10MHz

8.1.1 Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 30.2910 | -62.27 | -13.00 | 49.27 | Vertical |
| 116.6738 | -60.72 | -13.00 | 47.72 | Vertical |
| 399.6855 | -67.53 | -13.00 | 54.53 | Vertical |
| 1576.9154 | -58.63 | -40.00 | 18.63 | Vertical |
| 2365.8732 | -39.68 | -13.00 | 26.68 | Vertical |
| 9806.2322 | -52.79 | -13.00 | 39.79 | Vertical |
| 46.1028 | -57.75 | -13.00 | 44.75 | Horizontal |
| 120.8450 | -67.79 | -13.00 | 54.79 | Horizontal |
| 236.7658 | -66.93 | -13.00 | 53.93 | Horizontal |
| 1577.3155 | -57.82 | -40.00 | 17.82 | Horizontal |
| 2365.8732 | -37.50 | -13.00 | 24.50 | Horizontal |
| 9323.7730 | -52.65 | -13.00 | 39.65 | Horizontal |

Remark:

- According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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9 Frequency Stability

9.1 Frequency Vs Voltage

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temper ature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|--------|-----------|------------|---------|-----------------|------------------|-------------------------|-------------------|--------------------|----------------|---------|
| Band14 | 10MHz | QPSK | 23330 | 50RB#0 | VL | NT | -0.30 | -0.000378 | ±2.5 | PASS |
| Band14 | 10MHz | QPSK | 23330 | 50RB#0 | VN | NT | 0.40 | 0.000504 | ±2.5 | PASS |
| Band14 | 10MHz | QPSK | 23330 | 50RB#0 | VH | NT | 1.10 | 0.001387 | ±2.5 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 27RB#0 | VL | NT | 0.10 | 0.000126 | ±2.5 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 27RB#0 | VN | NT | -0.30 | -0.000378 | ±2.5 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 27RB#0 | VH | NT | 0.30 | 0.000378 | ±2.5 | PASS |

9.2 Frequency Vs Temperature

| | | | | | | Temper | 5 | 5 | | |
|--------|-----------|------------|---------|-----------------|------------------|---------------|-------------------|--------------------|----------------|---------|
| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | ature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band14 | 10MHz | QPSK | 23330 | 50RB#0 | NV | -30 | 0.50 | 0.000631 | ±2.5 | PASS |
| Band14 | 10MHz | QPSK | 23330 | 50RB#0 | NV | -20 | -0.50 | -0.000631 | ±2.5 | PASS |
| Band14 | 10MHz | QPSK | 23330 | 50RB#0 | NV | 0 | -1.10 | -0.001387 | ±2.5 | PASS |
| Band14 | 10MHz | QPSK | 23330 | 50RB#0 | NV | 10 | 0.20 | 0.000252 | ±2.5 | PASS |
| Band14 | 10MHz | QPSK | 23330 | 50RB#0 | NV | 20 | -0.60 | -0.000757 | ±2.5 | PASS |
| Band14 | 10MHz | QPSK | 23330 | 50RB#0 | NV | 30 | -0.60 | -0.000757 | ±2.5 | PASS |
| Band14 | 10MHz | QPSK | 23330 | 50RB#0 | NV | 40 | -1.60 | -0.002018 | ±2.5 | PASS |
| Band14 | 10MHz | QPSK | 23330 | 50RB#0 | NV | 50 | -0.70 | -0.000883 | ±2.5 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 27RB#0 | NV | -30 | -0.10 | -0.000126 | ±2.5 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 27RB#0 | NV | -20 | -0.20 | -0.000252 | ±2.5 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 27RB#0 | NV | 0 | -2.00 | -0.002522 | ±2.5 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 27RB#0 | NV | 10 | 1.30 | 0.001639 | ±2.5 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 27RB#0 | NV | 20 | 0.90 | 0.001135 | ±2.5 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 27RB#0 | NV | 30 | 0.00 | 0.000000 | ±2.5 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 27RB#0 | NV | 40 | -0.80 | -0.001009 | ±2.5 | PASS |
| Band14 | 10MHz | 16QAM | 23330 | 27RB#0 | NV | 50 | -2.00 | -0.002522 | ±2.5 | PASS |

The End



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