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Appendix B.4

LTE Band 12



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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 |
|--------|-----------|------------|---------|---------------------|-------------|----------|------------|---------|
| Band12 | 1.4MHz | QPSK | 23017 | 1RB#0 | 23 | 22.85 | 34.77 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 1RB#2 | 22.95 | 22.8 | 34.77 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 1RB#5 | 23.05 | 22.9 | 34.77 | PASS |
| Band12 | 1.4MHz | QPSK | 23017 | 6RB#0 | 22.12 | 21.97 | 34.77 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 1RB#0 | 22.77 | 22.62 | 34.77 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 1RB#2 | 22.88 | 22.73 | 34.77 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 1RB#5 | 22.82 | 22.67 | 34.77 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 6RB#0 | 21.84 | 21.69 | 34.77 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 1RB#0 | 23.01 | 22.86 | 34.77 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 1RB#2 | 23.02 | 22.87 | 34.77 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 1RB#5 | 22.84 | 22.69 | 34.77 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 6RB#0 | 21.99 | 21.84 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 1RB#0 | 22.23 | 22.08 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 1RB#2 | 22.43 | 22.28 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 1RB#5 | 22.41 | 22.26 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 6RB#0 | 21.3 | 21.15 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 1RB#0 | 22.04 | 21.89 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 1RB#2 | 22.21 | 22.06 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 1RB#5 | 22.11 | 21.96 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 6RB#0 | 21.01 | 20.86 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 1RB#0 | 22.34 | 22.19 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 1RB#2 | 22.41 | 22.26 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 1RB#5 | 22.15 | 22 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6RB#0 | 21.14 | 20.99 | 34.77 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 1RB#0 | 22.92 | 22.77 | 34.77 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 1RB#8 | 23.17 | 23.02 | 34.77 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 1RB#14 | 23.08 | 22.93 | 34.77 | PASS |



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|--------|------|-------|-------|--------|--------|---------------------|-------|------|
| Band12 | 3MHz | QPSK | 23025 | 15RB#0 | 22.29 | 22.14 | 34.77 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 1RB#0 | 22.79 | 22.64 | 34.77 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 1RB#8 | 22.95 | 22.8 | 34.77 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 1RB#14 | 22.67 | 22.52 | 34.77 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 15RB#0 | 21.84 | 21.69 | 34.77 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 1RB#0 | 23.19 | 23.04 | 34.77 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 1RB#8 | 23.17 | 23.02 | 34.77 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 1RB#14 | 22.78 | 22.63 | 34.77 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 15RB#0 | 22.15 | 22 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#0 | 22.3 | 22.15 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#8 | 22.52 | 22.37 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#14 | 22.42 | 22.27 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 15RB#0 | 21.35 | 21.2 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#0 | 22.1 | 21.95 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#8 | 22.21 | 22.06 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#14 | 22.02 | 21.87 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 15RB#0 | 21 | 20.85 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#0 | 22.51 | 22.36 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#8 | 22.52 | 22.37 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#14 | 22.02 | 21.87 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 15RB#0 | 21.25 | 21.1 | 34.77 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 1RB#0 | 23.37 | 23.22 | 34.77 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 1RB#12 | 23.4 | 23.25 | 34.77 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 1RB#24 | 23.27 | 23.12 | 34.77 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 25RB#0 | 22.47 | 22.32 | 34.77 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 1RB#0 | 22.92 | 22.77 | 34.77 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 1RB#12 | 22.97 | 22.82 | 34.77 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 1RB#24 | 23.11 | 22.96 | 34.77 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 25RB#0 | 21.92 | 21.77 | 34.77 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 1RB#0 | 23.45 | 23.3 | 34.77 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 1RB#12 | 23.58 | 23.43 | 34.77 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 1RB#24 | 23.1 | 22.95 | 34.77 | PASS |
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|--------|-------|-------|-------|--------|--------|---------|-------|------|
| Band12 | 5MHz | QPSK | 23155 | 25RB#0 | 22.44 | 22.29 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#0 | 22.84 | 22.69 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#12 | 22.84 | 22.69 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#24 | 22.59 | 22.44 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 25RB#0 | 21.53 | 21.38 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 1RB#0 | 22.25 | 22.1 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 1RB#12 | 22.23 | 22.08 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 1RB#24 | 22.46 | 22.31 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 25RB#0 | 21.05 | 20.9 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 1RB#0 | 22.87 | 22.72 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 1RB#12 | 22.78 | 22.63 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 1RB#24 | 22.34 | 22.19 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 25RB#0 | 21.65 | 21.5 | 34.77 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 1RB#0 | 23.27 | 23.12 | 34.77 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 1RB#24 | 22.97 | 22.82 | 34.77 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 1RB#49 | 22.94 | 22.79 | 34.77 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 50RB#0 | 22.39 | 22.24 | 34.77 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 1RB#0 | 23.2 | 23.05 | 34.77 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 1RB#24 | 23.03 | 22.88 | 34.77 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 1RB#49 | 23.42 | 23.27 | 34.77 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | 22.11 | 21.96 | 34.77 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 1RB#0 | 23.19 | 23.04 | 34.77 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 1RB#24 | 23.4 | 23.25 | 34.77 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 1RB#49 | 23.2 | 23.05 | 34.77 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 50RB#0 | 22.29 | 22.14 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0 | 22.8 | 22.65 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#24 | 22.56 | 22.41 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#49 | 22.32 | 22.17 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 27RB#0 | 21.38 | 21.23 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0 | 22.54 | 22.39 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#24 | 22.26 | 22.11 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#49 | 22.66 | 22.51 | 34.77 | PASS |
| | | • | | | | | | |



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| Band12 | 10MHz | 16QAM | 23095 | 27RB#0 | 21.25 | 21.1 | 34.77 | PASS |
|--------|-------|-------|-------|--------|-------|-------|-------|------|
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0 | 22.48 | 22.33 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#24 | 22.76 | 22.61 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#49 | 22.48 | 22.33 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 27RB#0 | 21.49 | 21.34 | 34.77 | PASS |



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Peak-to-Average Ratio(CCDF)

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band12 | 10MHz | QPSK | 23060 | 50RB#0 | 5.72 | 13 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | 5.70 | 13 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 50RB#0 | 5.78 | 13 | PASS |



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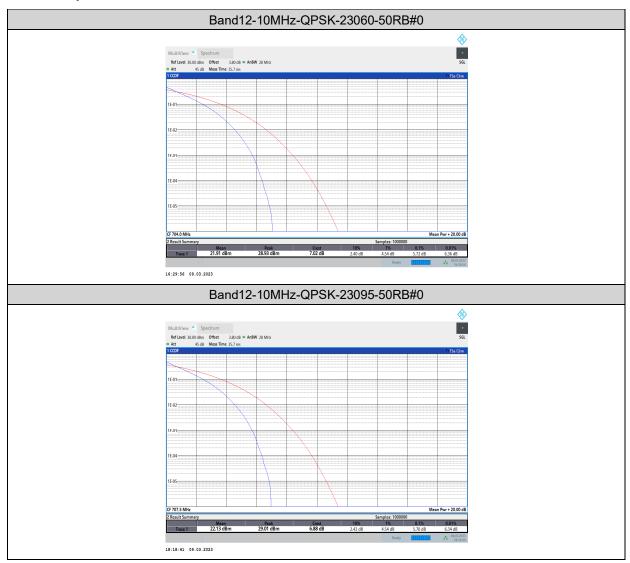
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Test Graphs





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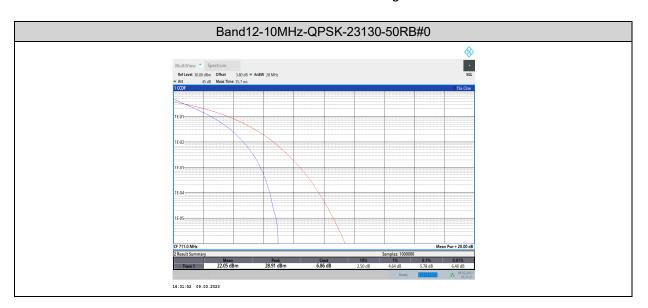
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Modulation Characteristics

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|--------|-----------|------------|---------|------------------|--------|---------|
| Band12 | 5MHz | QPSK | 23095 | 25RB#0 | PASS | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 25RB#0 | PASS | PASS |



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Test Graphs





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26dB Bandwidth and Occupied Bandwidth

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------------|-------------------------|---------|
| Band12 | 1.4MHz | QPSK | 23017 | 6RB#0 | 1.088 | 1.30 | PASS |
| Band12 | 1.4MHz | QPSK | 23095 | 6RB#0 | 1.036 | 1.14 | PASS |
| Band12 | 1.4MHz | QPSK | 23173 | 6RB#0 | 1.054 | 1.18 | PASS |
| Band12 | 1.4MHz | 16QAM | 23017 | 6RB#0 | 1.096 | 1.31 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 6RB#0 | 1.096 | 1.31 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6RB#0 | 1.099 | 1.30 | PASS |
| Band12 | 3MHz | QPSK | 23025 | 15RB#0 | 2.695 | 3.00 | PASS |
| Band12 | 3MHz | QPSK | 23095 | 15RB#0 | 2.698 | 2.98 | PASS |
| Band12 | 3MHz | QPSK | 23165 | 15RB#0 | 2.695 | 2.99 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 15RB#0 | 2.688 | 3.01 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 15RB#0 | 2.687 | 3.02 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 15RB#0 | 2.689 | 3.01 | PASS |
| Band12 | 5MHz | QPSK | 23035 | 25RB#0 | 4.467 | 4.95 | PASS |
| Band12 | 5MHz | QPSK | 23095 | 25RB#0 | 4.468 | 4.94 | PASS |
| Band12 | 5MHz | QPSK | 23155 | 25RB#0 | 4.469 | 4.93 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 25RB#0 | 4.467 | 4.97 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 25RB#0 | 4.464 | 4.94 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 25RB#0 | 4.464 | 4.97 | PASS |
| Band12 | 10MHz | QPSK | 23060 | 50RB#0 | 8.926 | 9.86 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | 8.933 | 9.96 | PASS |
| Band12 | 10MHz | QPSK | 23130 | 50RB#0 | 8.947 | 9.94 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 27RB#0 | 4.886 | 5.90 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 27RB#0 | 4.877 | 5.88 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 27RB#0 | 4.886 | 5.90 | PASS |



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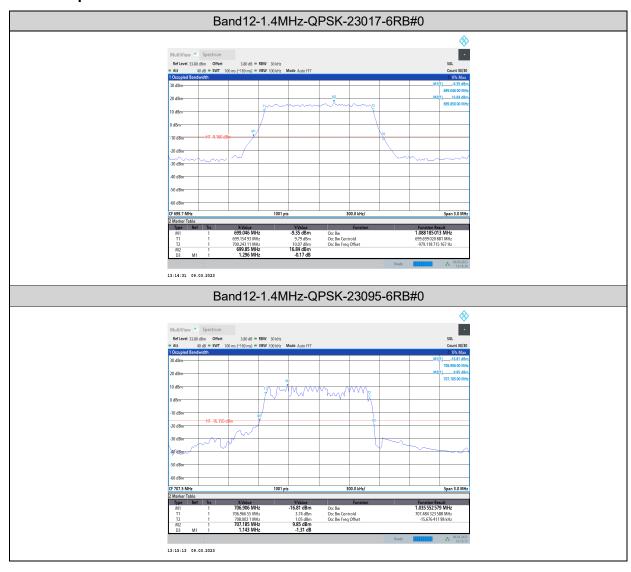


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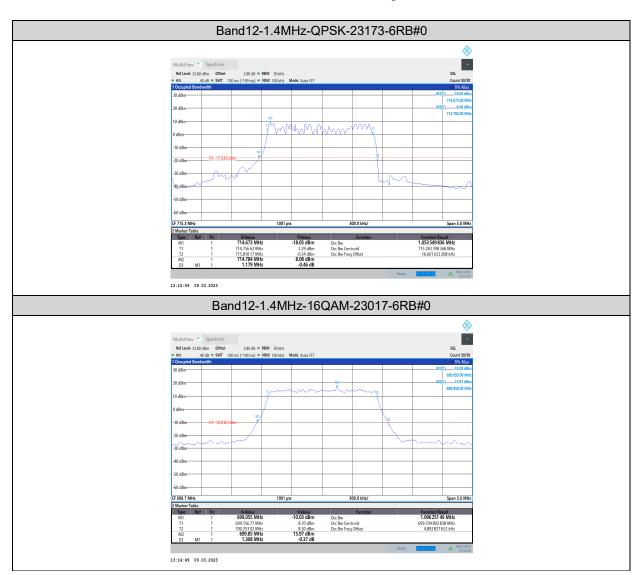
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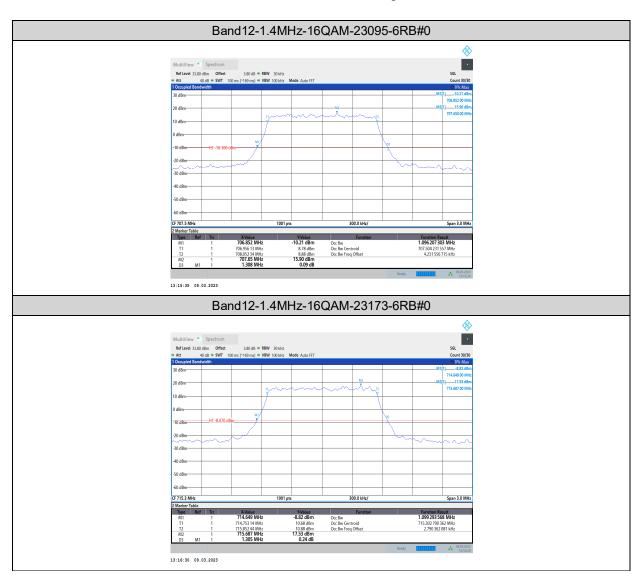
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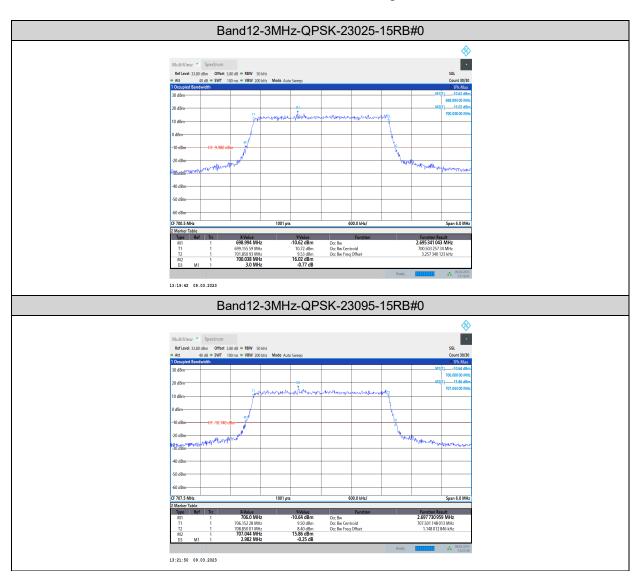
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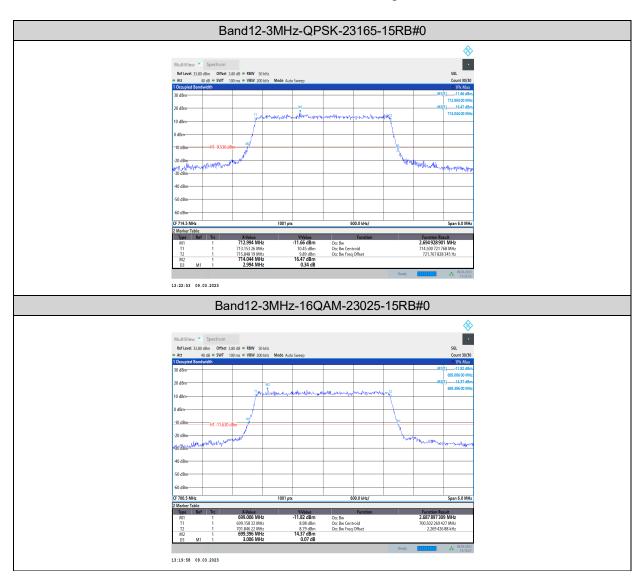
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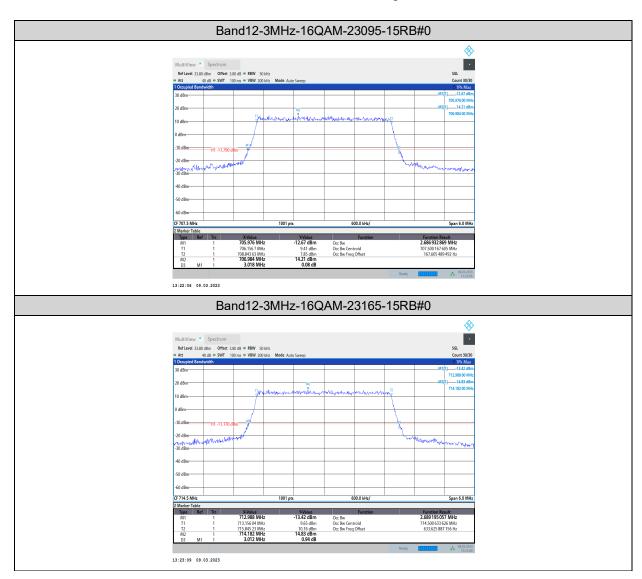
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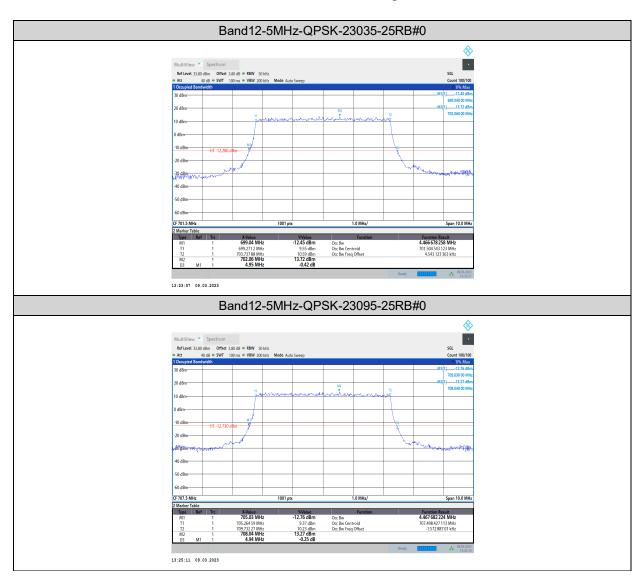
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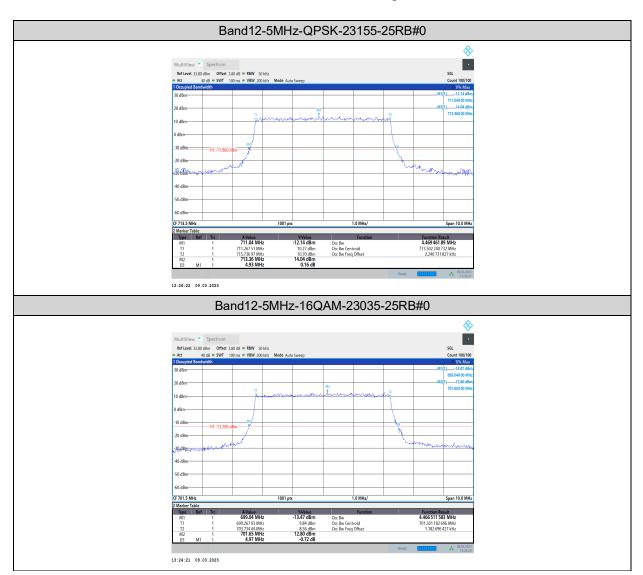
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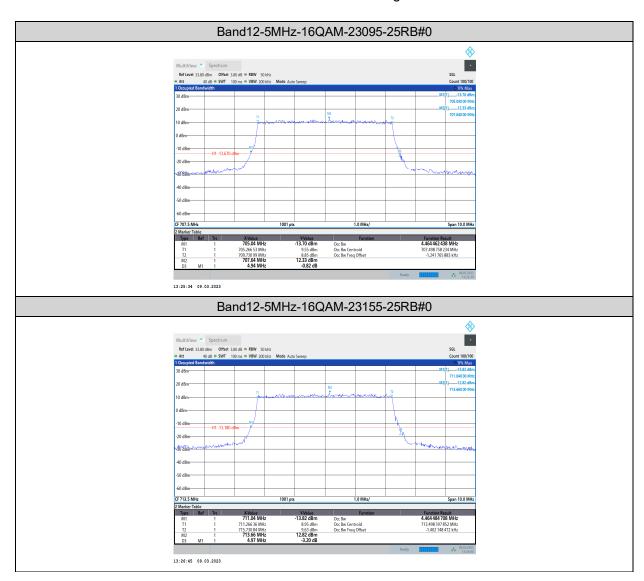
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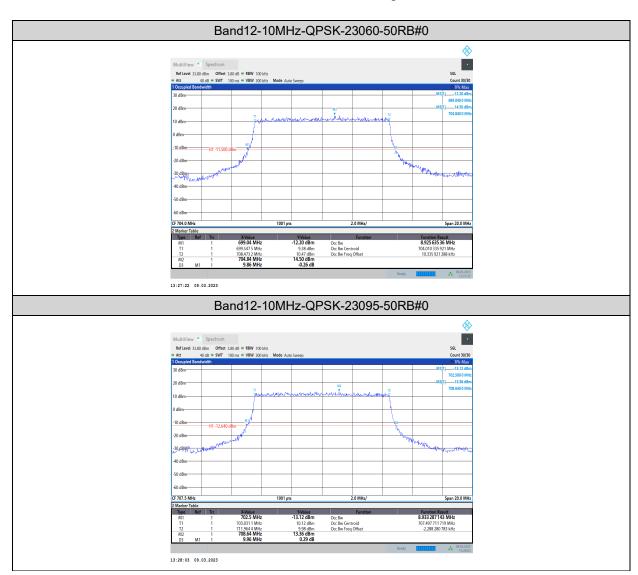
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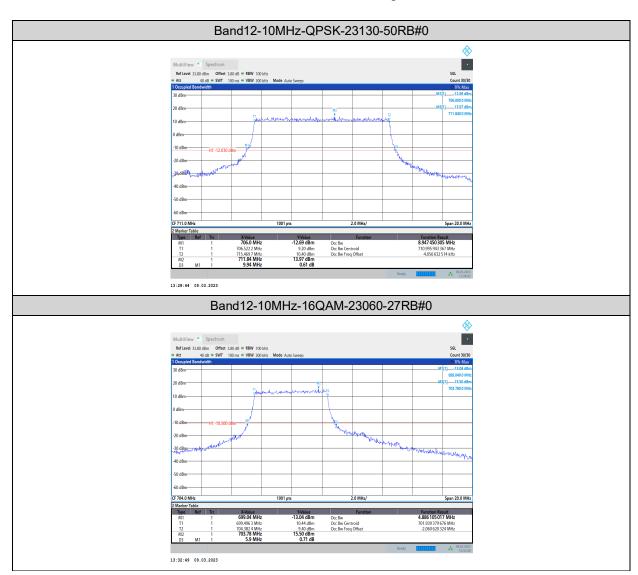
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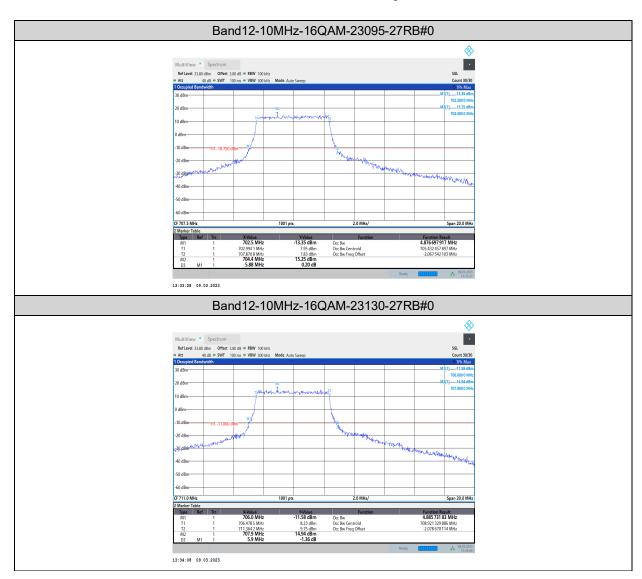
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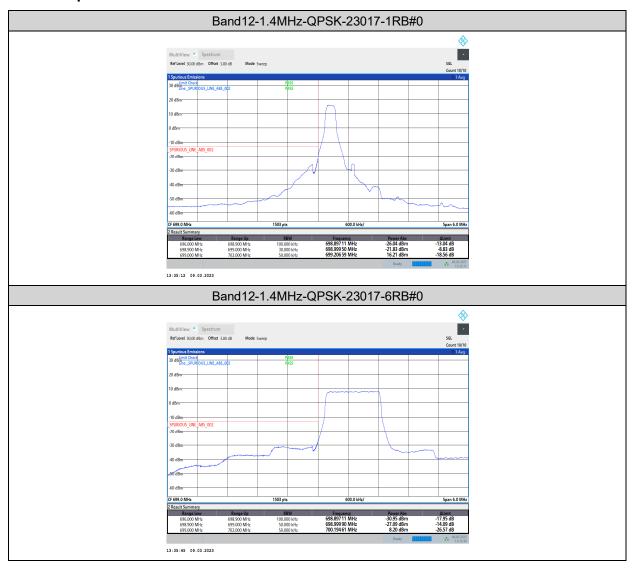
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Band Edge

Test Graphs





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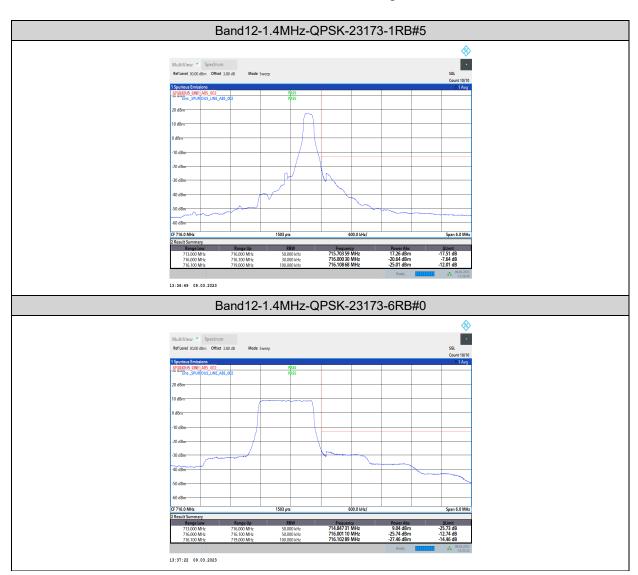
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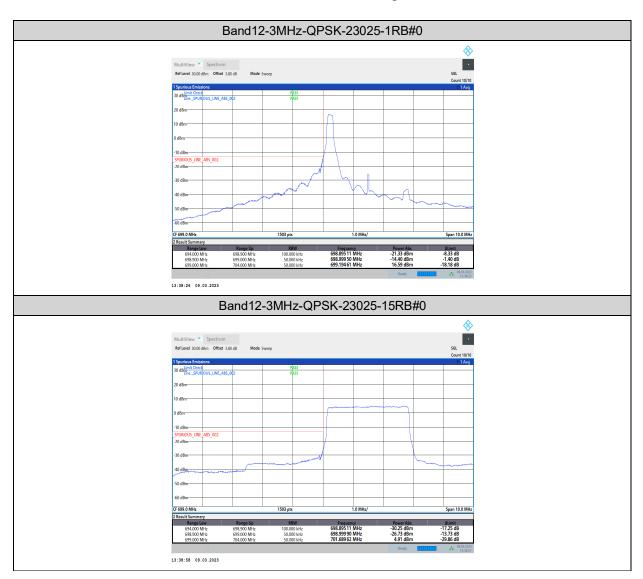
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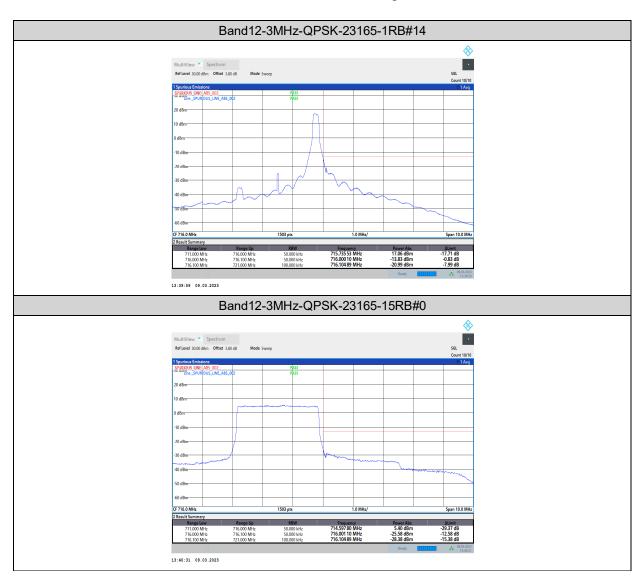
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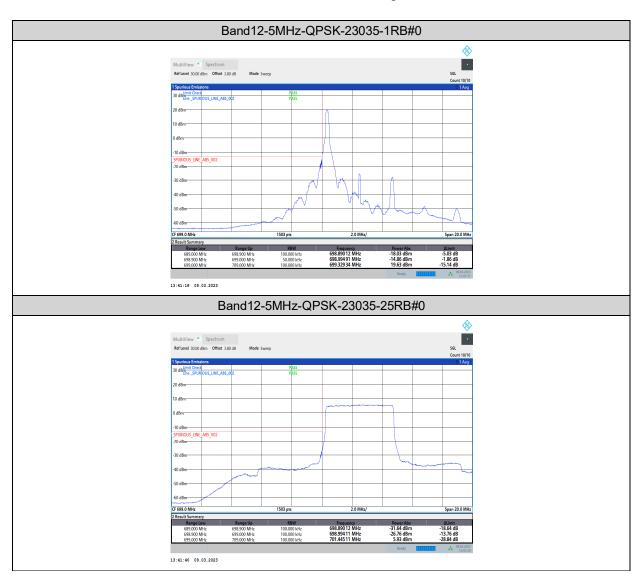
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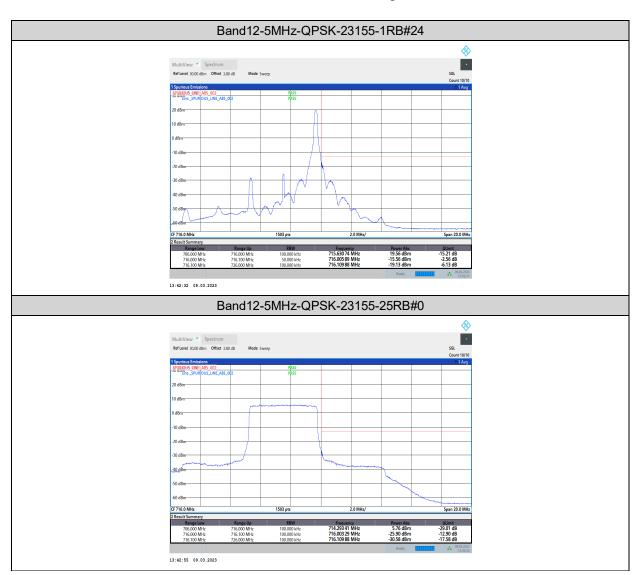
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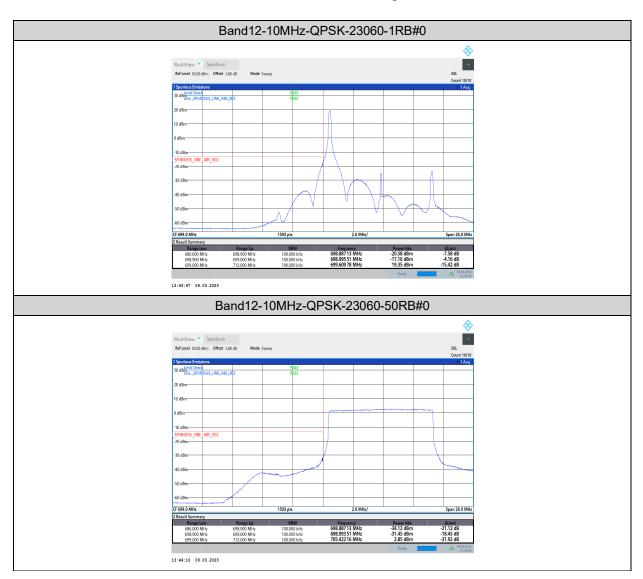
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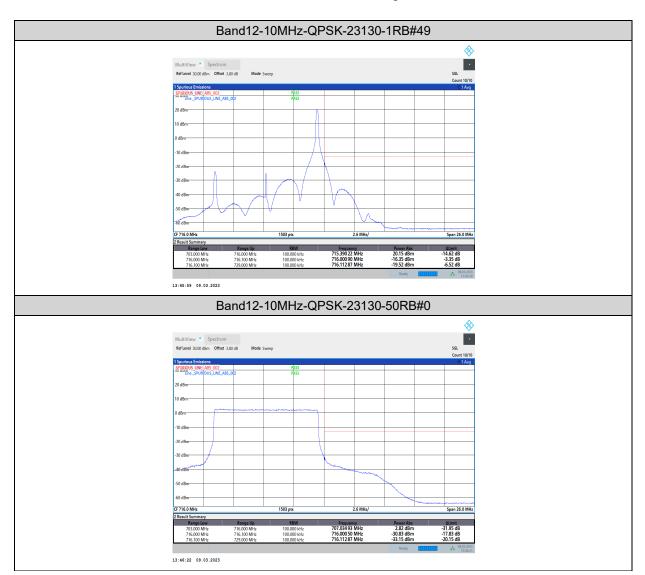
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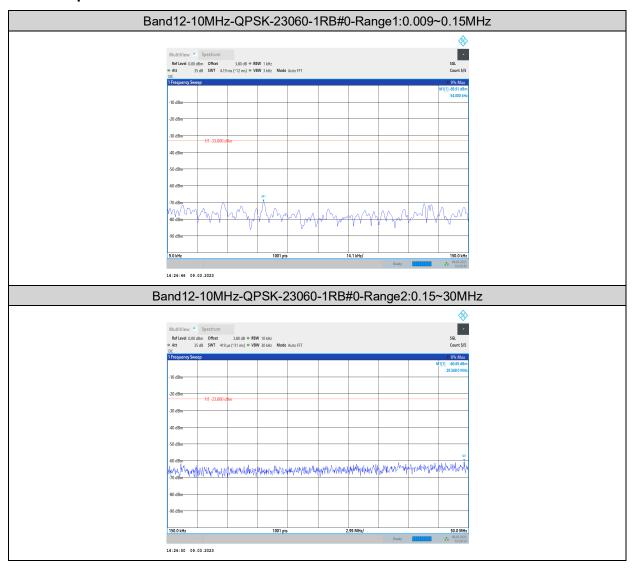
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Conducted Spurious Emission

Test Graphs





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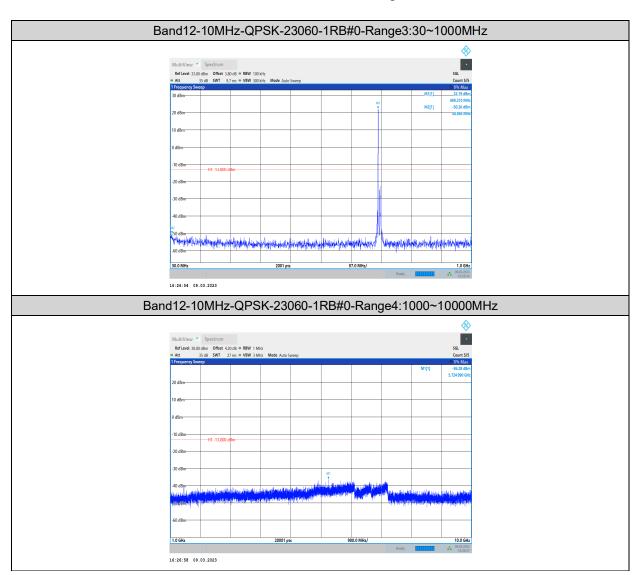
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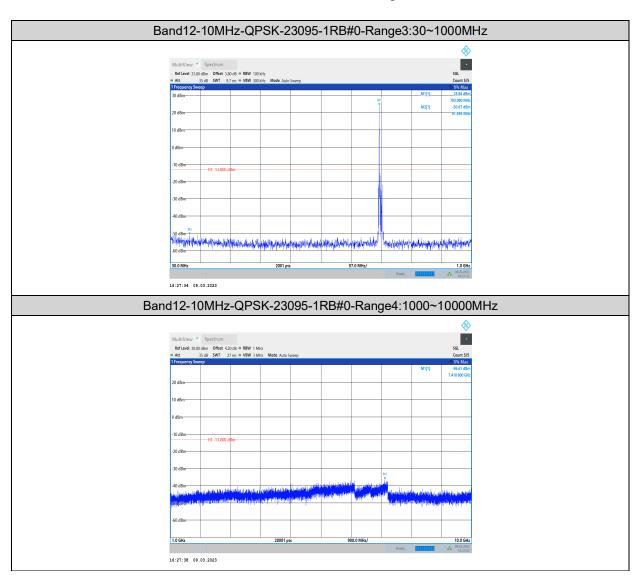
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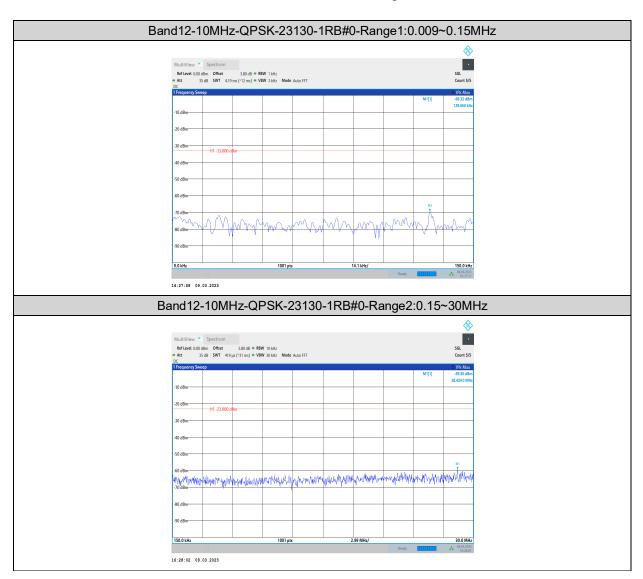
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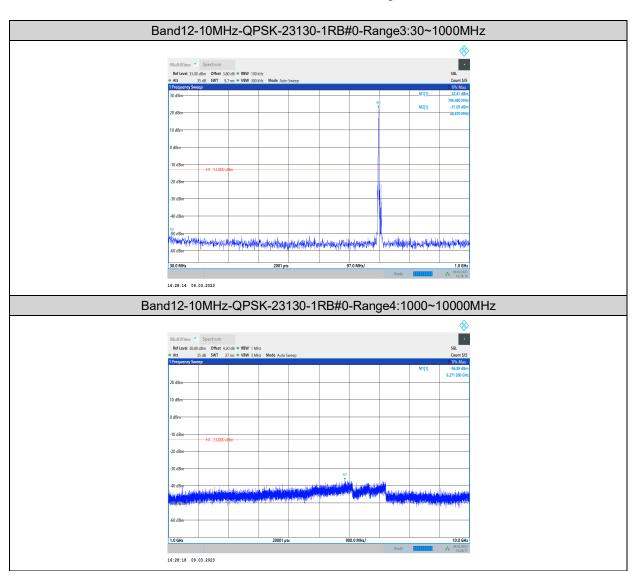
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Field Strength of Spurious Radiation

Test Band = LTE Band 12_10MHz_ TM1
Test Channel = Low Channel

| Final | Final Data List | | | | | | | | | | | |
|-------|-----------------|---------|--------|---------------|--------|--------|--------|--------|-------|------------|--|--|
| NO | Frequency | Reading | Factor | Λ.Γ.Ι.D./::-1 | Level | Limit | Margin | Height | Angle | Dalasiki | | |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity | | |
| 1 | 1399.1111 | 59.70 | -48.73 | 25.40 | -58.89 | -13.00 | 45.89 | 184 | 314 | Horizontal | | |
| 2 | 2098.77 | 43.29 | -47.88 | 27.10 | -72.75 | -13.00 | 59.75 | 256 | 64 | Horizontal | | |
| 3 | 2798.36 | 43.02 | -46.69 | 28.92 | -70.01 | -13.00 | 57.01 | 232 | 221 | Horizontal | | |
| 4 | 3497.95 | 42.23 | -46.05 | 29.40 | -69.68 | -13.00 | 56.68 | 165 | 345 | Horizontal | | |
| 5 | 4197.54 | 41.51 | -45.12 | 30.92 | -67.95 | -13.00 | 54.95 | 179 | 357 | Horizontal | | |
| 6 | 4897.13 | 40.04 | -45.14 | 32.35 | -68.00 | -13.00 | 55.00 | 208 | 236 | Horizontal | | |

| Final | Final Data List | | | | | | | | | | | |
|-------|-----------------|---------|--------|------------|--------|--------|--------|--------|-------|----------|--|--|
| NO | Frequency | Reading | Factor | Λ.Γ.(-ID/1 | Level | Limit | Margin | Height | Angle | Dalarita | | |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity | | |
| 1 | 1399.1111 | 55.18 | -48.73 | 25.40 | -63.41 | -13.00 | 50.41 | 216 | 3 | Vertical | | |
| 2 | 2098.77 | 48.71 | -47.88 | 27.10 | -67.33 | -13.00 | 54.33 | 189 | 356 | Vertical | | |
| 3 | 2798.36 | 42.96 | -46.69 | 28.92 | -70.07 | -13.00 | 57.07 | 234 | 360 | Vertical | | |
| 4 | 3497.95 | 42.89 | -46.05 | 29.40 | -69.02 | -13.00 | 56.02 | 268 | 3 | Vertical | | |
| 5 | 4197.54 | 42.77 | -45.12 | 30.92 | -66.69 | -13.00 | 53.69 | 174 | 249 | Vertical | | |
| 6 | 4897.13 | 40.87 | -45.14 | 32.35 | -67.17 | -13.00 | 54.17 | 181 | 15 | Vertical | | |



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Test Band = LTE Band 12_10MHz_ TM1 Test Channel = Mid Channel

| Final | Final Data List | | | | | | | | | | | |
|-------|-----------------|---------|--------|----------|--------|--------|--------|--------|-------|------------|--|--|
| NO | Frequency | Reading | Factor | AFFID/1 | Level | Limit | Margin | Height | Angle | Dalarita | | |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity | | |
| 1 | 1406.18 | 55.57 | -48.72 | 25.41 | -63.00 | -13.00 | 50.00 | 362 | 329 | Horizontal | | |
| 2 | 2109.27 | 43.75 | -47.87 | 27.12 | -72.26 | -13.00 | 59.26 | 285 | 0 | Horizontal | | |
| 3 | 2812.36 | 44.25 | -46.69 | 28.96 | -68.74 | -13.00 | 55.74 | 241 | 173 | Horizontal | | |
| 4 | 3515.45 | 42.52 | -46.03 | 29.44 | -69.34 | -13.00 | 56.34 | 142 | 204 | Horizontal | | |
| 5 | 4218.54 | 40.99 | -45.11 | 30.95 | -68.43 | -13.00 | 55.43 | 296 | 283 | Horizontal | | |
| 6 | 4921.63 | 40.05 | -45.12 | 32.41 | -67.92 | -13.00 | 54.92 | 287 | 95 | Horizontal | | |

| Final Data List | | | | | | | | | | | |
|-----------------|-----------|---------|--------|-----------|--------|--------|--------|--------|-------|----------|--|
| NO | Frequency | Reading | Factor | Λ Γ[dD/m] | Level | Limit | Margin | Height | Angle | Dolority | |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity | |
| 1 | 1406.18 | 50.59 | -48.72 | 25.41 | -67.98 | -13.00 | 54.98 | 296 | 360 | Vertical | |
| 2 | 2109.27 | 45.60 | -47.87 | 27.12 | -70.41 | -13.00 | 57.41 | 285 | 142 | Vertical | |
| 3 | 2812.36 | 44.73 | -46.69 | 28.96 | -68.26 | -13.00 | 55.26 | 241 | 297 | Vertical | |
| 4 | 3515.45 | 44.45 | -46.03 | 29.44 | -67.41 | -13.00 | 54.41 | 142 | 314 | Vertical | |
| 5 | 4218.54 | 41.70 | -45.11 | 30.95 | -67.72 | -13.00 | 54.72 | 252 | 126 | Vertical | |
| 6 | 4921.63 | 39.99 | -45.12 | 32.41 | -67.98 | -13.00 | 54.98 | 263 | 174 | Vertical | |



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Test Band = LTE Band 12_10MHz_ TM1 **Test Channel = High Channel**

| Final | Final Data List | | | | | | | | | | | |
|-------|-----------------|---------|--------|-----------|--------|--------|--------|--------|-------|------------|--|--|
| NO | Frequency | Reading | Factor | Λ Γ[- D/] | Level | Limit | Margin | Height | Angle | Dalamit | | |
| NO. | [MHz] | [dBµV] | [dB] | AF[dB/m] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polarity | | |
| 1 | 1413.18 | 57.56 | -48.70 | 25.41 | -60.98 | -13.00 | 47.98 | 196 | 113 | Horizontal | | |
| 2 | 2119.77 | 43.94 | -47.85 | 27.14 | -72.03 | -13.00 | 59.03 | 285 | 18 | Horizontal | | |
| 3 | 2826.36 | 44.17 | -46.71 | 29.01 | -68.79 | -13.00 | 55.79 | 274 | 160 | Horizontal | | |
| 4 | 3532.95 | 42.25 | -46.01 | 29.48 | -69.54 | -13.00 | 56.54 | 142 | 64 | Horizontal | | |
| 5 | 4239.54 | 41.43 | -45.11 | 30.98 | -67.96 | -13.00 | 54.96 | 263 | 0 | Horizontal | | |
| 6 | 4946.13 | 39.99 | -45.09 | 32.47 | -67.88 | -13.00 | 54.88 | 368 | 113 | Horizontal | | |

| Final Data List | | | | | | | | | | |
|-----------------|-----------|---------|--------|------------|--------|--------|--------|--------|-------|----------|
| NO. | Frequency | Reading | Factor | AF[dB/m] | Level | Limit | Margin | Height | Angle | Polarity |
| | [MHz] | [dBµV] | [dB] | AF[db/III] | [dBm] | [dBm] | [dB] | [cm] | [°] | Polanty |
| 1 | 1413.18 | 53.35 | -48.70 | 25.41 | -65.19 | -13.00 | 52.19 | 296 | 3 | Vertical |
| 2 | 2119.77 | 47.67 | -47.85 | 27.14 | -68.30 | -13.00 | 55.30 | 285 | 360 | Vertical |
| 3 | 2826.36 | 45.39 | -46.71 | 29.01 | -67.57 | -13.00 | 54.57 | 241 | 344 | Vertical |
| 4 | 3532.95 | 41.71 | -46.01 | 29.48 | -70.08 | -13.00 | 57.08 | 142 | 142 | Vertical |
| 5 | 4239.54 | 41.79 | -45.11 | 30.98 | -67.60 | -13.00 | 54.60 | 263 | 360 | Vertical |
| 6 | 4946.13 | 39.80 | -45.09 | 32.47 | -68.07 | -13.00 | 55.07 | 225 | 204 | 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



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Frequency Stability

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|-----------------|------------------|------------------|-------------------|-----------------|---------|
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | VL | NT | -5.40 | -0.007633 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | VN | NT | -5.40 | -0.007633 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | VH | NT | -0.60 | -0.000848 | PASS |

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|-----------------|------------------|------------------|-------------------|-----------------|---------|
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | NV | -30 | -2.10 | -0.002968 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | NV | -20 | -3.20 | -0.004523 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | NV | -10 | -2.70 | -0.003816 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | NV | 0 | -2.20 | -0.003110 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | NV | 10 | -0.30 | -0.000424 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | NV | 20 | -1.20 | -0.001696 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | NV | 30 | 0.00 | 0.000000 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | NV | 40 | -2.40 | -0.003392 | PASS |
| Band12 | 10MHz | QPSK | 23095 | 50RB#0 | NV | 50 | -3.30 | -0.004664 | PASS |

---End of Attachment---



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