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Appendix B.1

LTE Band 2



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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 |
|-------|-----------|------------|---------|------------------|-------------|-----------|------------|---------|
| Band2 | 1.4MHz | QPSK | 18607 | 1RB#0 | 22.78 | 24.21 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 18607 | 1RB#2 | 22.85 | 24.28 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 18607 | 1RB#5 | 22.91 | 24.34 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 18607 | 6RB#0 | 22.08 | 23.51 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1RB#0 | 23.02 | 24.45 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1RB#2 | 23.11 | 24.54 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1RB#5 | 23.07 | 24.5 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 6RB#0 | 22.27 | 23.7 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 1RB#0 | 22.87 | 24.3 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 1RB#2 | 22.81 | 24.24 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 1RB#5 | 22.61 | 24.04 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 6RB#0 | 21.88 | 23.31 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 1RB#0 | 22.31 | 23.74 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 1RB#2 | 22.21 | 23.64 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 1RB#5 | 22.33 | 23.76 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 6RB#0 | 21.17 | 22.6 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1RB#0 | 22.38 | 23.81 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1RB#2 | 22.51 | 23.94 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1RB#5 | 22.39 | 23.82 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 6RB#0 | 21.32 | 22.75 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 1RB#0 | 22.28 | 23.71 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 1RB#2 | 22.17 | 23.6 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 1RB#5 | 21.95 | 23.38 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 6RB#0 | 21.03 | 22.46 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 18615 | 1RB#0 | 22.68 | 24.11 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 18615 | 1RB#8 | 22.91 | 24.34 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 18615 | 1RB#14 | 22.87 | 24.3 | 33.00 | PASS |



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|-------|------|-------|-------|--------|-------|-------|-------|------|
| Band2 | 3MHz | QPSK | 18615 | 15RB#0 | 21.92 | 23.35 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 18900 | 1RB#0 | 23.02 | 24.45 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 18900 | 1RB#8 | 23.17 | 24.6 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 18900 | 1RB#14 | 23.02 | 24.45 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 18900 | 15RB#0 | 22.11 | 23.54 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 19185 | 1RB#0 | 22.91 | 24.34 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 19185 | 1RB#8 | 22.87 | 24.3 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 19185 | 1RB#14 | 22.41 | 23.84 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 19185 | 15RB#0 | 21.91 | 23.34 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 1RB#0 | 22.27 | 23.7 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 1RB#8 | 22.09 | 23.52 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 1RB#14 | 22.11 | 23.54 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 15RB#0 | 21.17 | 22.6 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 1RB#0 | 22.32 | 23.75 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 1RB#8 | 22.68 | 24.11 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 1RB#14 | 22.27 | 23.7 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 15RB#0 | 21.35 | 22.78 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 1RB#0 | 22.26 | 23.69 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 1RB#8 | 22.18 | 23.61 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 1RB#14 | 21.72 | 23.15 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 15RB#0 | 21.01 | 22.44 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 18625 | 1RB#0 | 23.02 | 24.45 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 18625 | 1RB#12 | 23.17 | 24.6 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 18625 | 1RB#24 | 23.11 | 24.54 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 18625 | 25RB#0 | 22.29 | 23.72 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 18900 | 1RB#0 | 23.32 | 24.75 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 18900 | 1RB#12 | 23.27 | 24.7 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 18900 | 1RB#24 | 23.19 | 24.62 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 18900 | 25RB#0 | 22.32 | 23.75 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 19175 | 1RB#0 | 22.91 | 24.34 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 19175 | 1RB#12 | 23.21 | 24.64 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 19175 | 1RB#24 | 22.81 | 24.24 | 33.00 | PASS |



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| Band2 | 5MHz | QPSK | 19175 | 25RB#0 | 22.19 | 23.62 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 1RB#0 | 22.41 | 23.84 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 1RB#12 | 22.36 | 23.79 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 1RB#24 | 22.47 | 23.9 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 25RB#0 | 21.32 | 22.75 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 1RB#0 | 22.73 | 24.16 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 1RB#12 | 22.61 | 24.04 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 1RB#24 | 22.42 | 23.85 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 25RB#0 | 21.45 | 22.88 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 19175 | 1RB#0 | 22.42 | 23.85 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 19175 | 1RB#12 | 22.55 | 23.98 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 19175 | 1RB#24 | 22.08 | 23.51 | 33.00 | PASS |
| Band2 | 5MHz | 16QAM | 19175 | 25RB#0 | 21.33 | 22.76 | 33.00 | PASS |
| Band2 | 10MHz | QPSK | 18650 | 1RB#0 | 22.91 | 24.34 | 33.00 | PASS |
| Band2 | 10MHz | QPSK | 18650 | 1RB#24 | 23.08 | 24.51 | 33.00 | PASS |
| Band2 | 10MHz | QPSK | 18650 | 1RB#49 | 23.12 | 24.55 | 33.00 | PASS |
| Band2 | 10MHz | QPSK | 18650 | 50RB#0 | 22.21 | 23.64 | 33.00 | PASS |
| Band2 | 10MHz | QPSK | 18900 | 1RB#0 | 23.17 | 24.6 | 33.00 | PASS |
| Band2 | 10MHz | QPSK | 18900 | 1RB#24 | 23.09 | 24.52 | 33.00 | PASS |
| Band2 | 10MHz | QPSK | 18900 | 1RB#49 | 23.11 | 24.54 | 33.00 | PASS |
| Band2 | 10MHz | QPSK | 18900 | 50RB#0 | 22.42 | 23.85 | 33.00 | PASS |
| Band2 | 10MHz | QPSK | 19150 | 1RB#0 | 23.18 | 24.61 | 33.00 | PASS |
| Band2 | 10MHz | QPSK | 19150 | 1RB#24 | 23.09 | 24.52 | 33.00 | PASS |
| Band2 | 10MHz | QPSK | 19150 | 1RB#49 | 23.17 | 24.6 | 33.00 | PASS |
| Band2 | 10MHz | QPSK | 19150 | 50RB#0 | 22.51 | 23.94 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#0 | 22.53 | 23.96 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#24 | 22.72 | 24.15 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#49 | 22.32 | 23.75 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 27RB#0 | 21.67 | 23.1 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#0 | 22.8 | 24.23 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#24 | 22.59 | 24.02 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#49 | 22.61 | 24.04 | 33.00 | PASS |



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| Band2 | 10MHz | 16QAM | 18900 | 27RB#0 | 21.61 | 23.04 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#0 | 22.57 | 24 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#24 | 22.72 | 24.15 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#49 | 22.52 | 23.95 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 27RB#0 | 21.77 | 23.2 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 18675 | 1RB#0 | 22.97 | 24.4 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 18675 | 1RB#38 | 23.08 | 24.51 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 18675 | 1RB#74 | 23.11 | 24.54 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 18675 | 75RB#0 | 22.28 | 23.71 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 18900 | 1RB#0 | 23.33 | 24.76 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 18900 | 1RB#38 | 23.17 | 24.6 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 18900 | 1RB#74 | 23.09 | 24.52 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 18900 | 75RB#0 | 22.51 | 23.94 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 19125 | 1RB#0 | 23.28 | 24.71 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 19125 | 1RB#38 | 23.32 | 24.75 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 19125 | 1RB#74 | 23.31 | 24.74 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 19125 | 75RB#0 | 22.57 | 24 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#0 | 22.31 | 23.74 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#38 | 22.49 | 23.92 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#74 | 22.42 | 23.85 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 27RB#0 | 21.38 | 22.81 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#0 | 22.41 | 23.84 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#38 | 22.49 | 23.92 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#74 | 22.42 | 23.85 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 27RB#0 | 21.51 | 22.94 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#0 | 22.62 | 24.05 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#38 | 22.77 | 24.2 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#74 | 21.97 | 23.4 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 27RB#0 | 21.53 | 22.96 | 33.00 | PASS |
| Band2 | 20MHz | QPSK | 18700 | 1RB#0 | 23.09 | 24.52 | 33.00 | PASS |
| Band2 | 20MHz | QPSK | 18700 | 1RB#49 | 23.33 | 24.76 | 33.00 | PASS |
| Band2 | 20MHz | QPSK | 18700 | 1RB#99 | 23.41 | 24.84 | 33.00 | PASS |



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| Band2 | 20MHz | QPSK | 18700 | 100RB#0 | 22.32 | 23.75 | 33.00 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 1RB#0 | 23.29 | 24.72 | 33.00 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 1RB#49 | 23.14 | 24.57 | 33.00 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 1RB#99 | 23.18 | 24.61 | 33.00 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | 22.42 | 23.85 | 33.00 | PASS |
| Band2 | 20MHz | QPSK | 19100 | 1RB#0 | 23.32 | 24.75 | 33.00 | PASS |
| Band2 | 20MHz | QPSK | 19100 | 1RB#49 | 23.42 | 24.85 | 33.00 | PASS |
| Band2 | 20MHz | QPSK | 19100 | 1RB#99 | 23.18 | 24.61 | 33.00 | PASS |
| Band2 | 20MHz | QPSK | 19100 | 100RB#0 | 22.67 | 24.1 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#0 | 22.42 | 23.85 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#49 | 22.71 | 24.14 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#99 | 22.87 | 24.3 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 27RB#0 | 21.51 | 22.94 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#0 | 22.32 | 23.75 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#49 | 22.51 | 23.94 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#99 | 22.33 | 23.76 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 27RB#0 | 21.52 | 22.95 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#0 | 22.67 | 24.1 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#49 | 22.61 | 24.04 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#99 | 22.54 | 23.97 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 27RB#0 | 21.47 | 22.9 | 33.00 | PASS |



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Peak-to-Average Ratio(CCDF)

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band2 | 20MHz | QPSK | 18700 | 100RB#0 | 5.50 | 13 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | 5.56 | 13 | PASS |
| Band2 | 20MHz | QPSK | 19100 | 100RB#0 | 5.40 | 13 | PASS |



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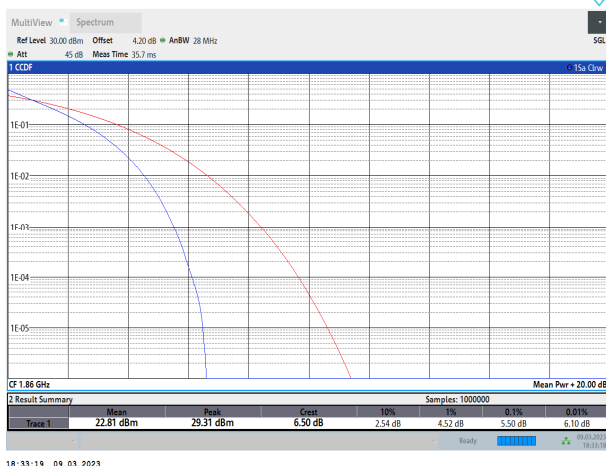
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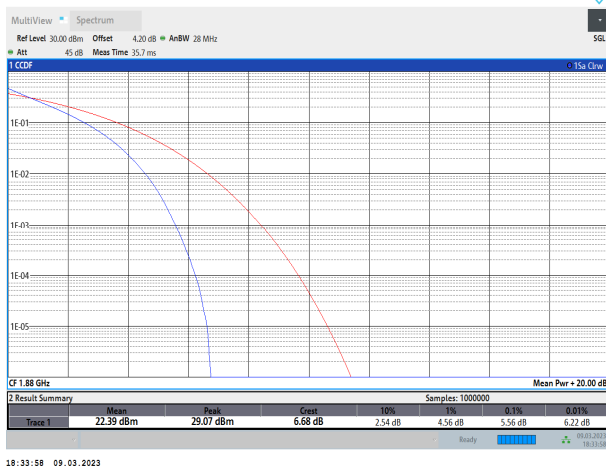
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Test Graphs

Band2-20MHz-QPSK-18700-100RB#0



Band2-20MHz-QPSK-18900-100RB#0



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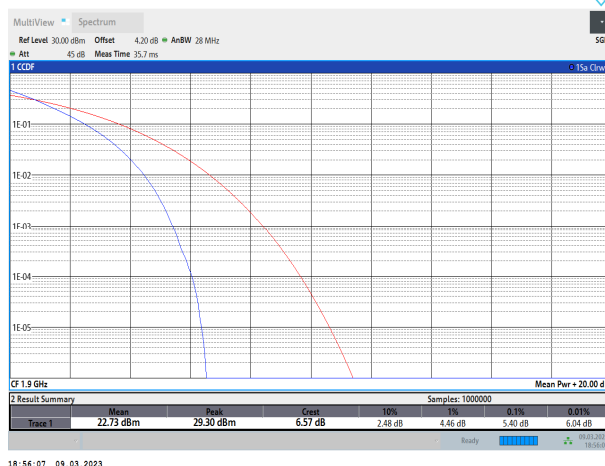
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Band2-20MHz-QPSK-19100-100RB#0



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Modulation Characteristics

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|-------|-----------|------------|---------|------------------|--------|---------|
| Band2 | 5MHz | QPSK | 18900 | 25RB#0 | PASS | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 25RB#0 | PASS | PASS |



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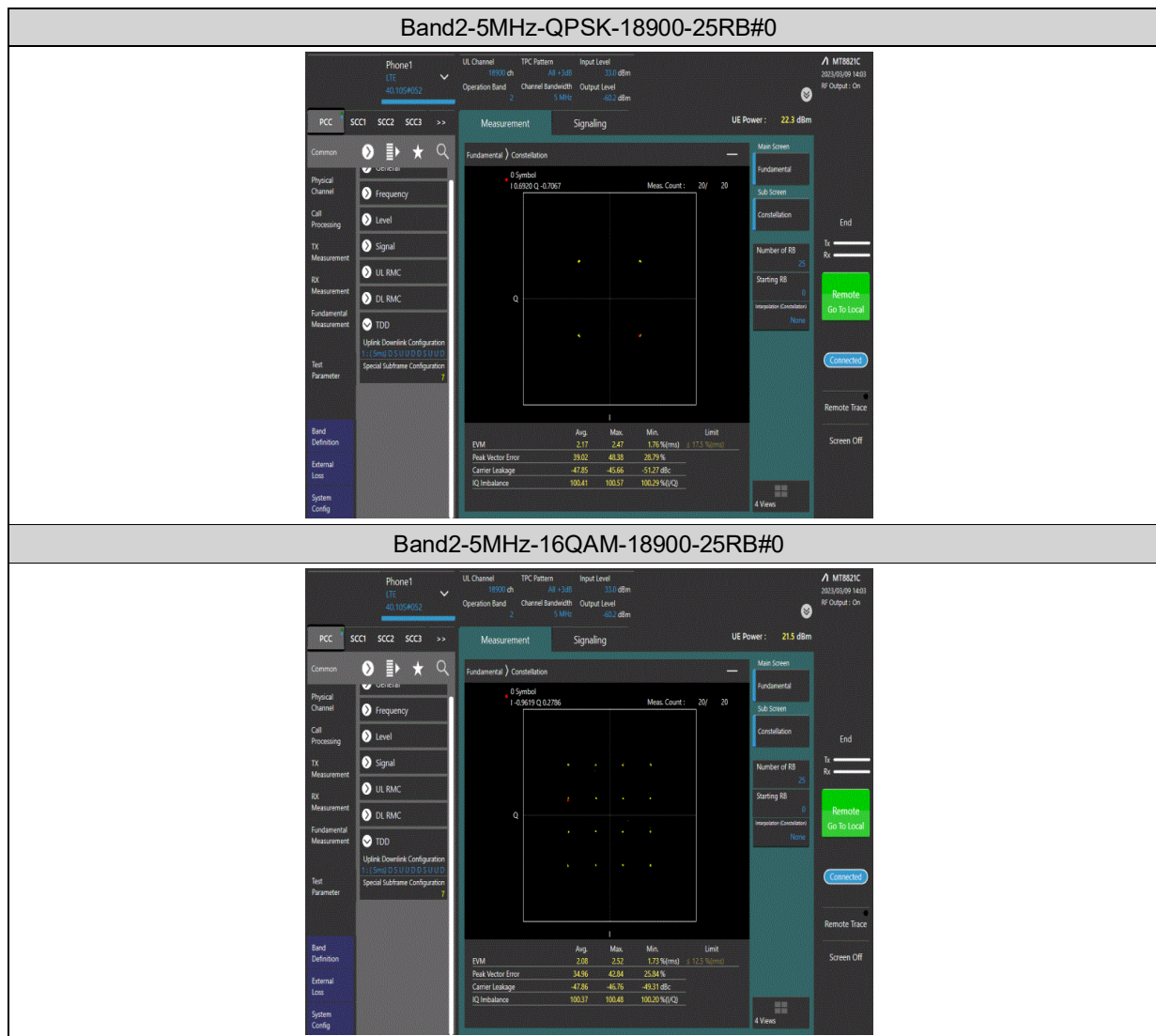
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Test Graphs



26dB Bandwidth and Occupied Bandwidth

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band2 | 1.4MHz | QPSK | 18607 | 6RB#0 | 1.088 | 1.30 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 6RB#0 | 1.088 | 1.30 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 6RB#0 | 1.088 | 1.29 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 6RB#0 | 1.097 | 1.31 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 6RB#0 | 1.097 | 1.31 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 6RB#0 | 1.096 | 1.31 | PASS |
| Band2 | 3MHz | QPSK | 18615 | 15RB#0 | 2.696 | 3.02 | PASS |
| Band2 | 3MHz | QPSK | 18900 | 15RB#0 | 2.697 | 3.01 | PASS |
| Band2 | 3MHz | QPSK | 19185 | 15RB#0 | 2.694 | 3.01 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 15RB#0 | 2.688 | 3.01 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 15RB#0 | 2.69 | 3.02 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 15RB#0 | 2.689 | 3.02 | PASS |
| Band2 | 5MHz | QPSK | 18625 | 25RB#0 | 4.47 | 4.92 | PASS |
| Band2 | 5MHz | QPSK | 18900 | 25RB#0 | 4.472 | 4.93 | PASS |
| Band2 | 5MHz | QPSK | 19175 | 25RB#0 | 4.469 | 4.93 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 25RB#0 | 4.468 | 4.97 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 25RB#0 | 4.465 | 5.01 | PASS |
| Band2 | 5MHz | 16QAM | 19175 | 25RB#0 | 4.462 | 4.93 | PASS |
| Band2 | 10MHz | QPSK | 18650 | 50RB#0 | 8.937 | 9.90 | PASS |
| Band2 | 10MHz | QPSK | 18900 | 50RB#0 | 8.937 | 9.90 | PASS |
| Band2 | 10MHz | QPSK | 19150 | 50RB#0 | 8.922 | 9.86 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 27RB#0 | 4.878 | 5.94 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 27RB#0 | 4.878 | 5.90 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 27RB#0 | 4.876 | 5.82 | PASS |
| Band2 | 15MHz | QPSK | 18675 | 75RB#0 | 13.509 | 15.27 | PASS |
| Band2 | 15MHz | QPSK | 18900 | 75RB#0 | 13.492 | 15.33 | PASS |
| Band2 | 15MHz | QPSK | 19125 | 75RB#0 | 13.509 | 15.18 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 27RB#0 | 5.234 | 6.87 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 27RB#0 | 5.213 | 6.81 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 27RB#0 | 5.226 | 6.90 | PASS |
| Band2 | 20MHz | QPSK | 18700 | 100RB#0 | 17.957 | 20.00 | PASS |



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| | | | | | | | |
|-------|-------|-------|-------|---------|--------|-------|------|
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | 17.914 | 20.08 | PASS |
| Band2 | 20MHz | QPSK | 19100 | 100RB#0 | 17.943 | 19.84 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 27RB#0 | 5.28 | 7.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 27RB#0 | 5.26 | 7.4 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 27RB#0 | 5.242 | 6.92 | PASS |



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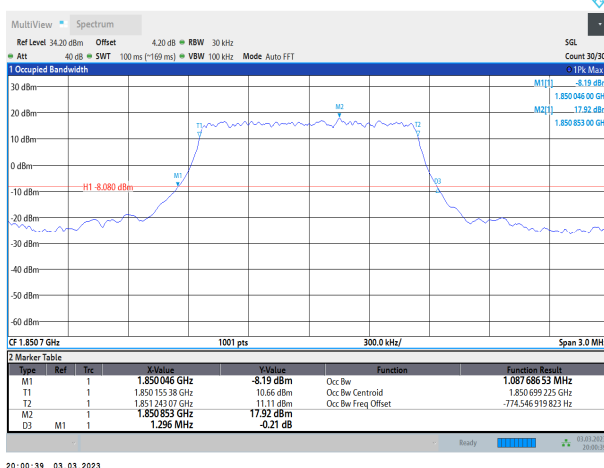
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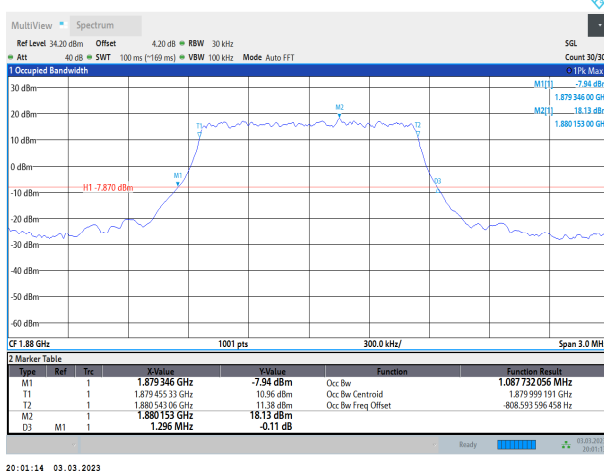
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Test Graphs

Band2-1.4MHz-QPSK-18607-6RB#0



Band2-1.4MHz-QPSK-18900-6RB#0

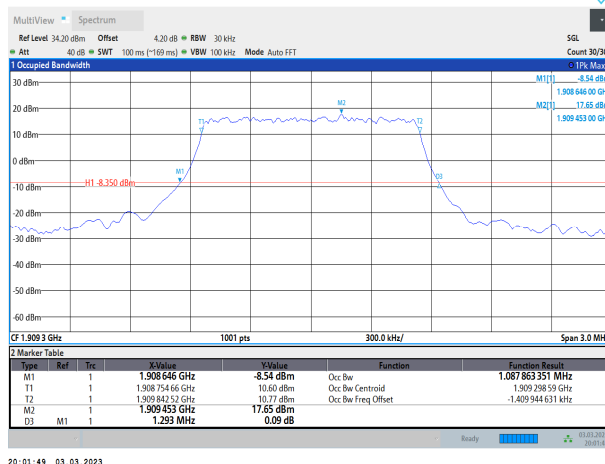


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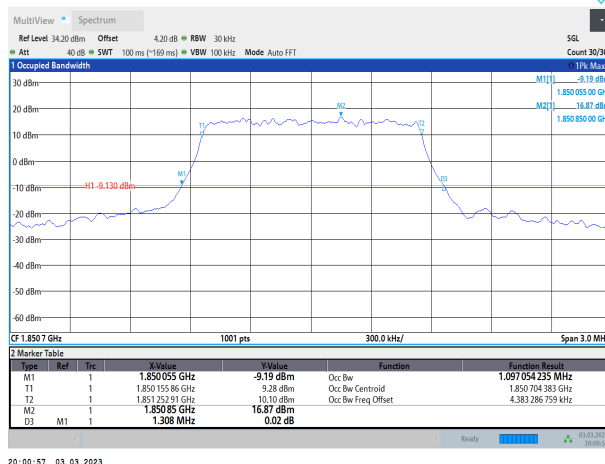
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Band2-1.4MHz-QPSK-19193-6RB#0



Band2-1.4MHz-16QAM-18607-6RB#0



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Band2-1.4MHz-16QAM-18900-6RB#0



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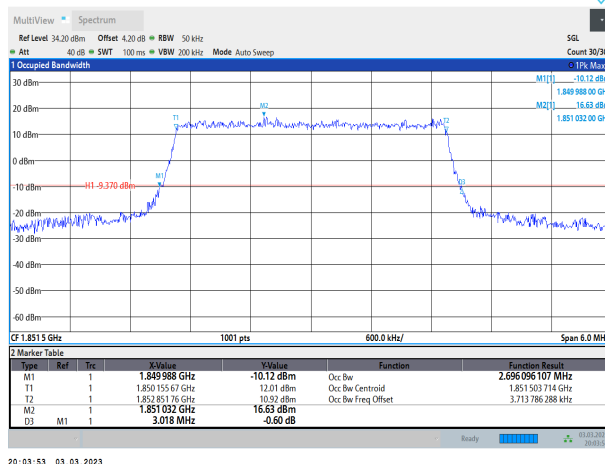


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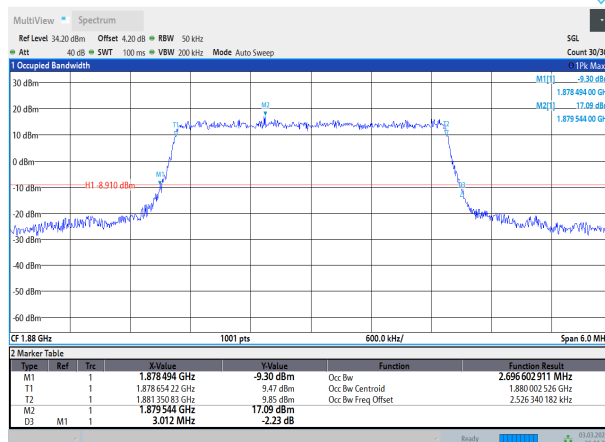
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Band2-3MHz-QPSK-18615-15RB#0



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Band2-3MHz-QPSK-18900-15RB#0



20:04:26 03.03.2023



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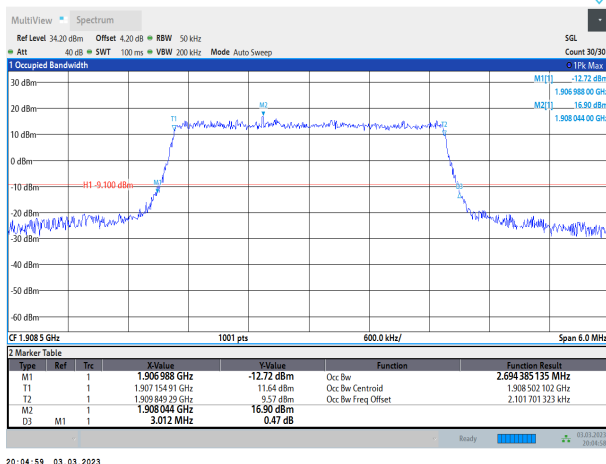
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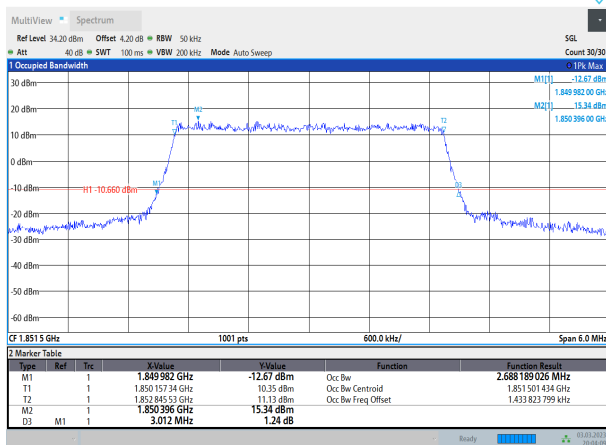
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Band2-3MHz-QPSK-19185-15RB#0



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Band2-3MHz-16QAM-18615-15RB#0



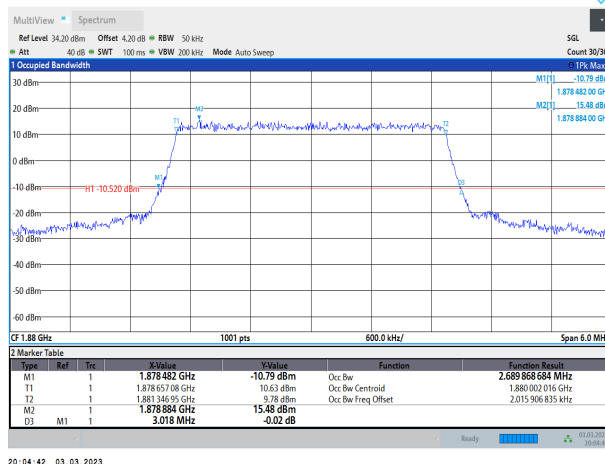
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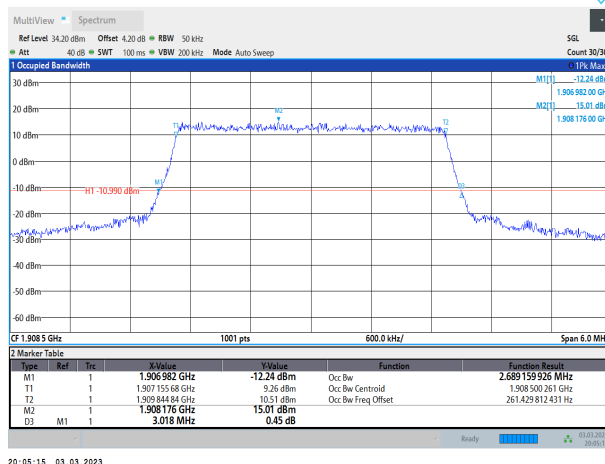
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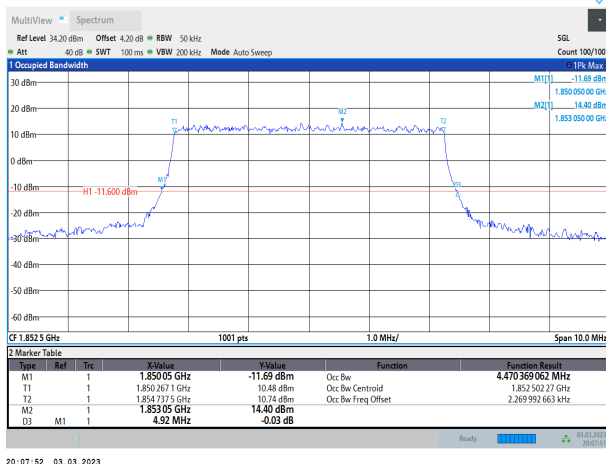
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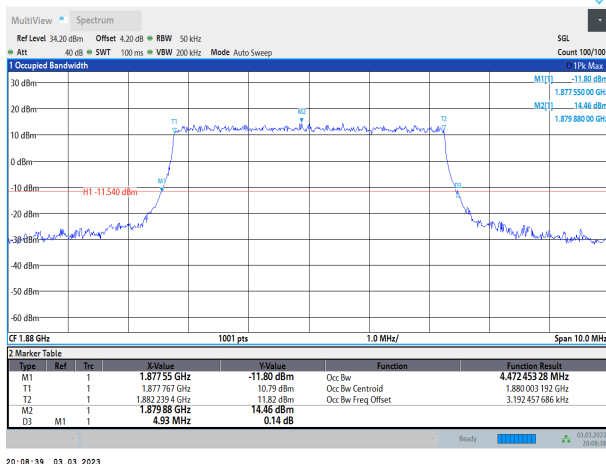
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Band2-5MHz-QPSK-18625-25RB#0



Band2-5MHz-QPSK-18900-25RB#0



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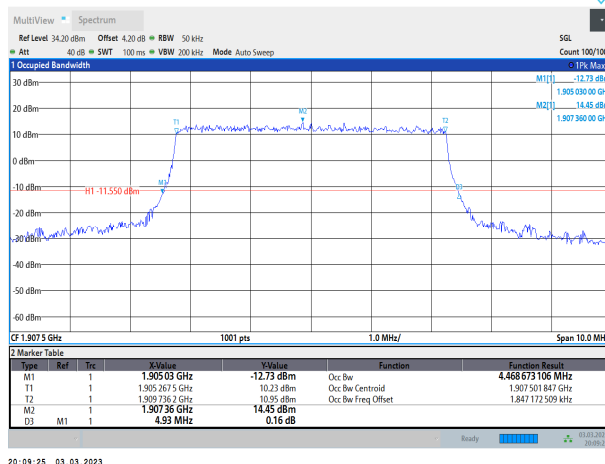
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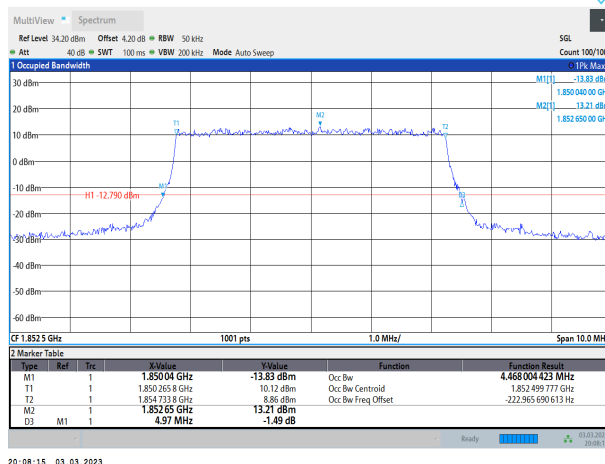
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Band2-5MHz-QPSK-19175-25RB#0



Band2-5MHz-16QAM-18625-25RB#0



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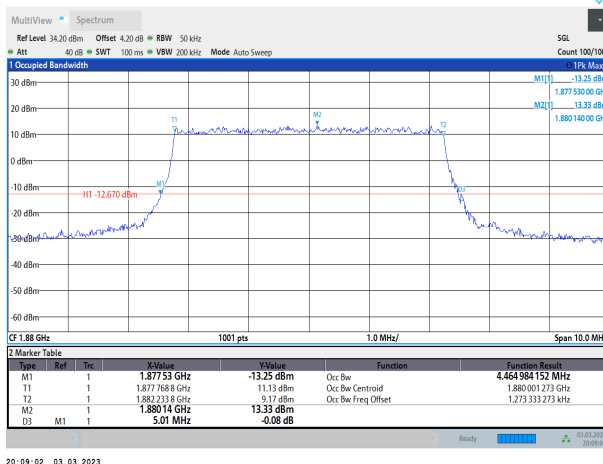
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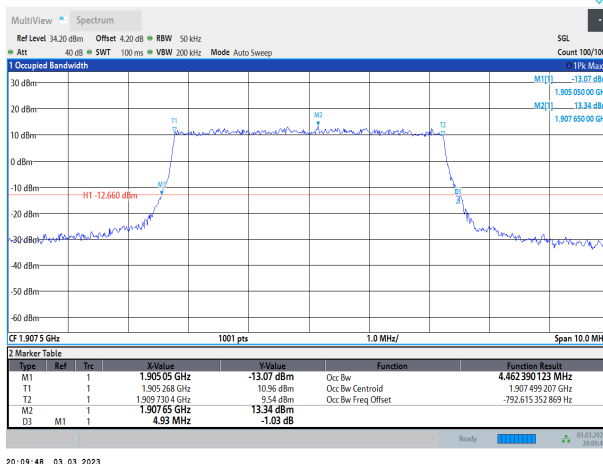
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Band2-5MHz-16QAM-18900-25RB#0



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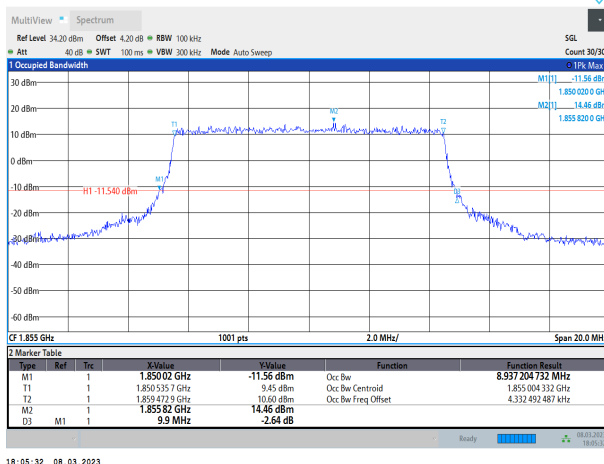


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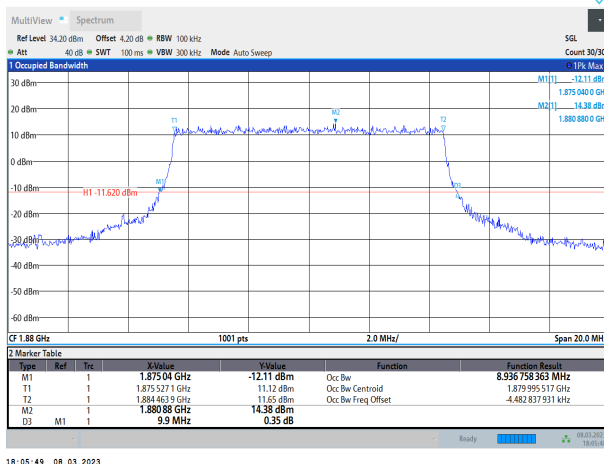
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Band2-10MHz-QPSK-18650-50RB#0



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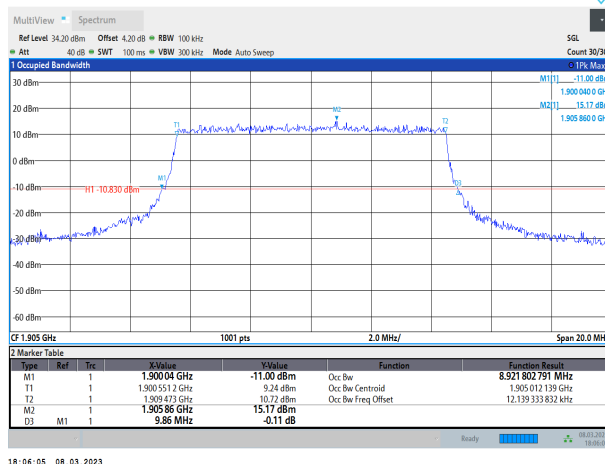


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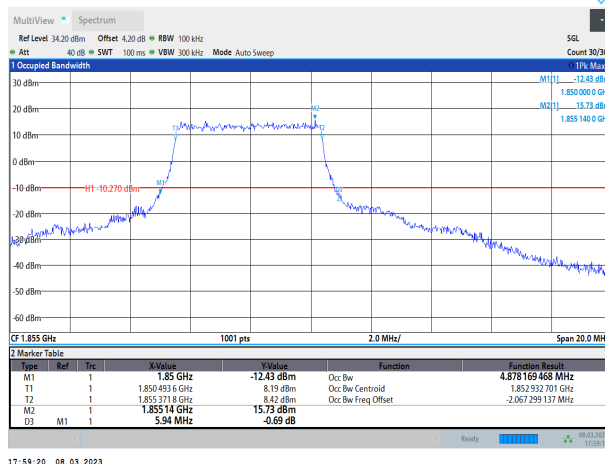
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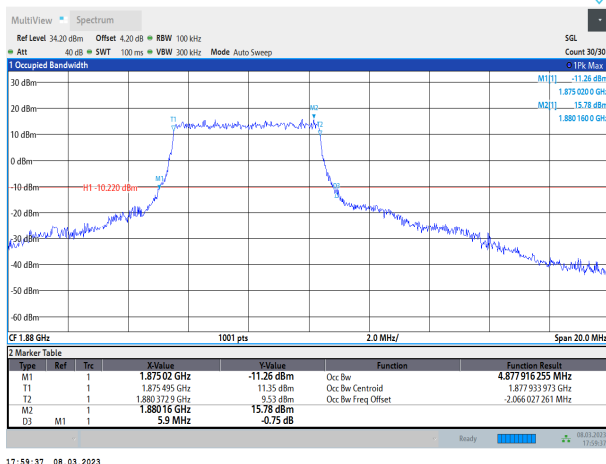
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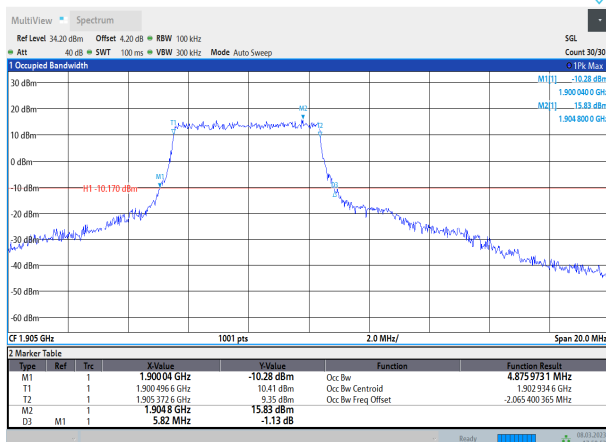
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Band2-10MHz-16QAM-18900-27RB#0



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Band2-10MHz-16QAM-19150-27RB#0



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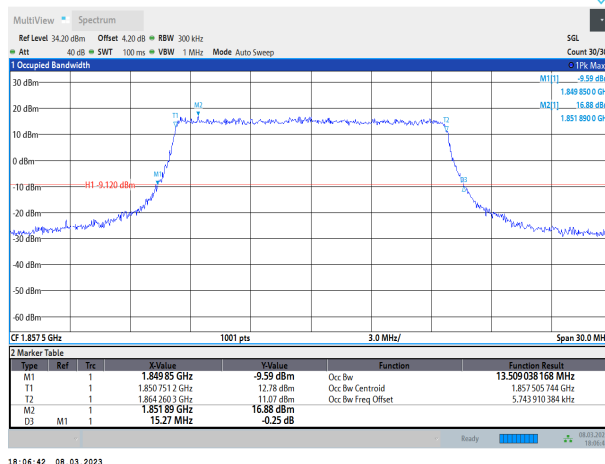
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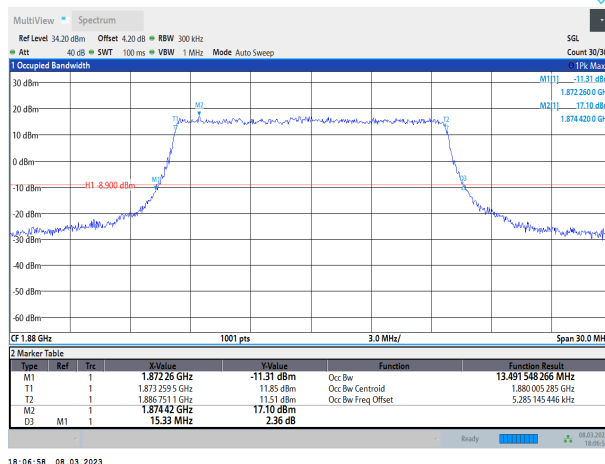
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Band2-15MHz-QPSK-18675-75RB#0



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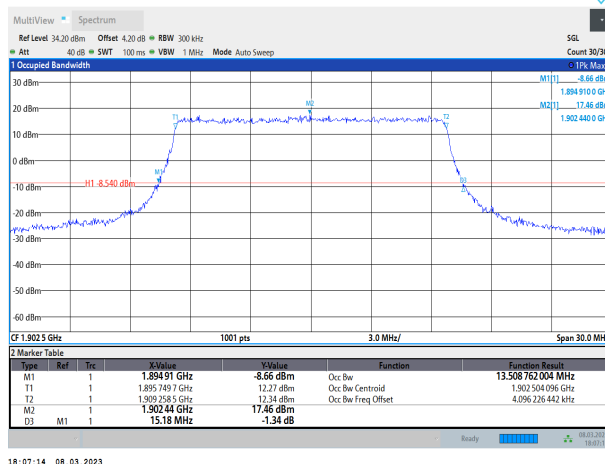


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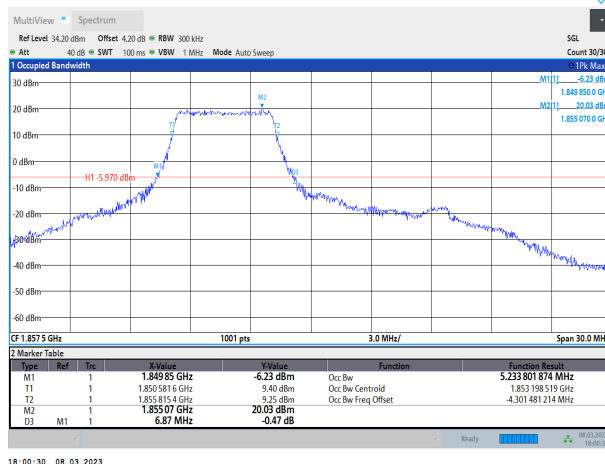
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Band2-15MHz-16QAM-18675-27RB#0

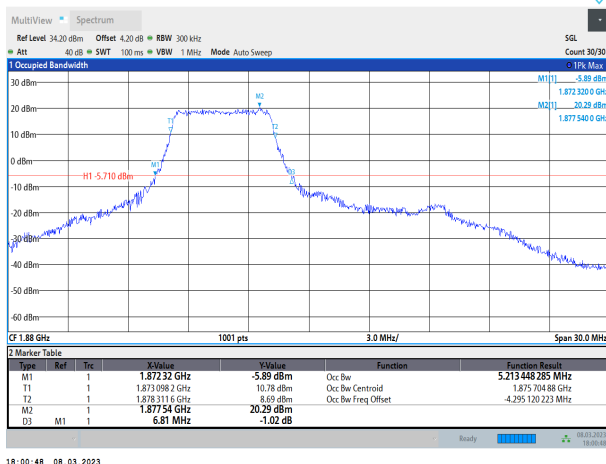


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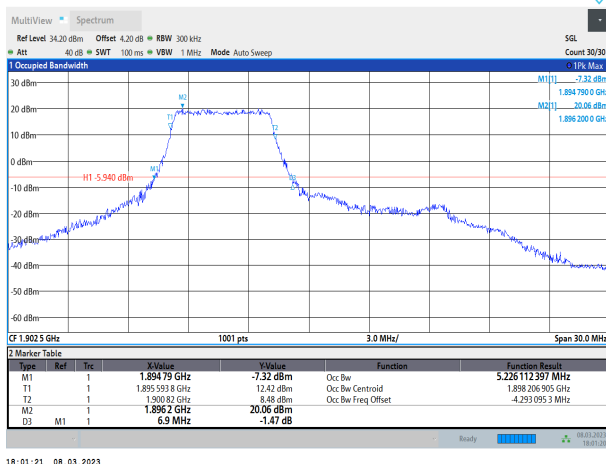
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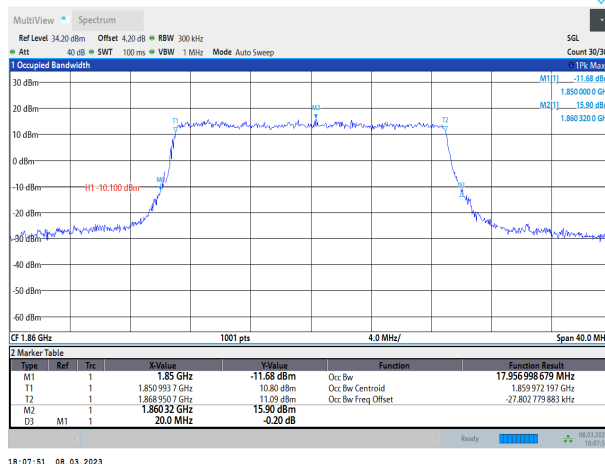


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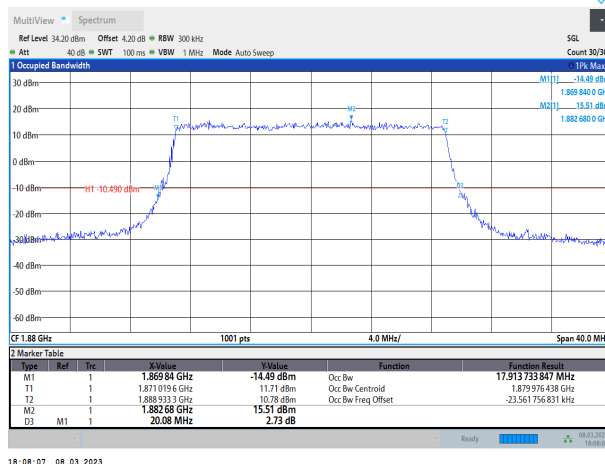
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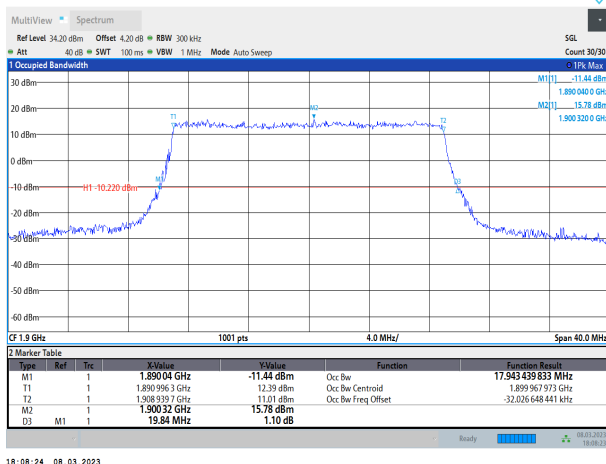
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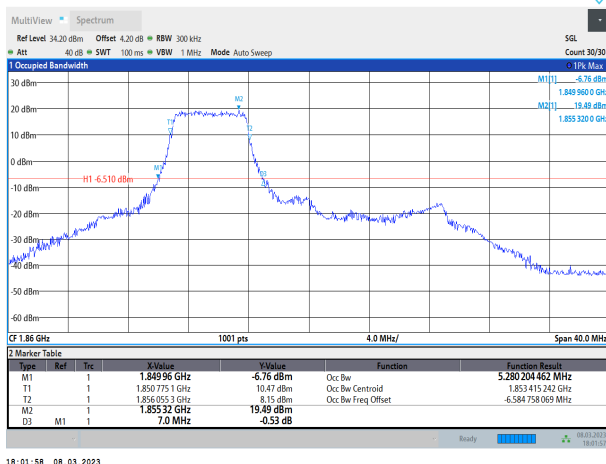
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Band2-20MHz-QPSK-19100-100RB#0



Band2-20MHz-16QAM-18700-27RB#0

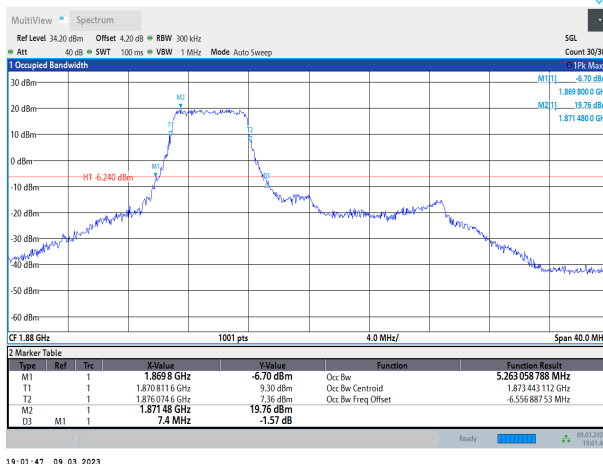


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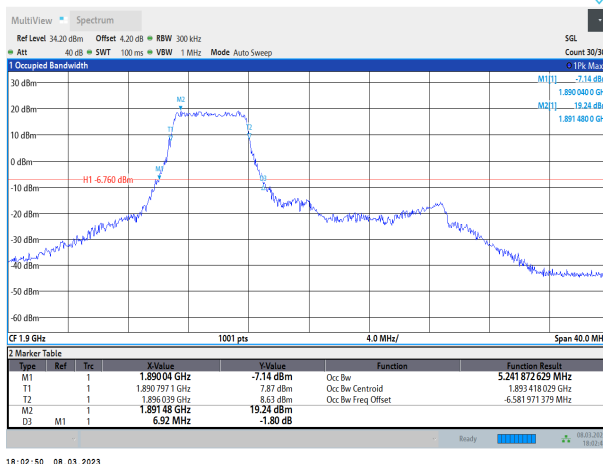
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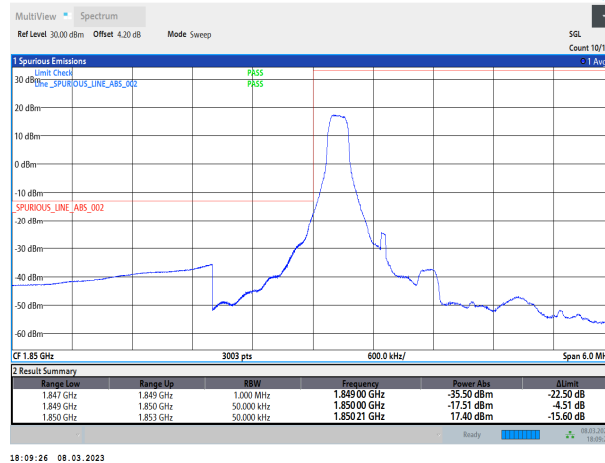
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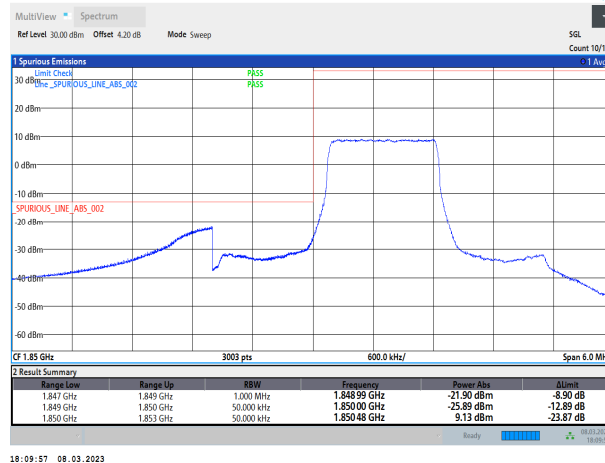
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Band2-1.4MHz-QPSK-18607-1RB#0



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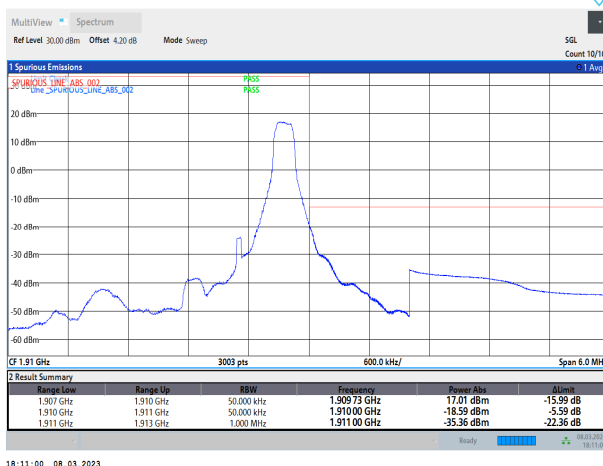
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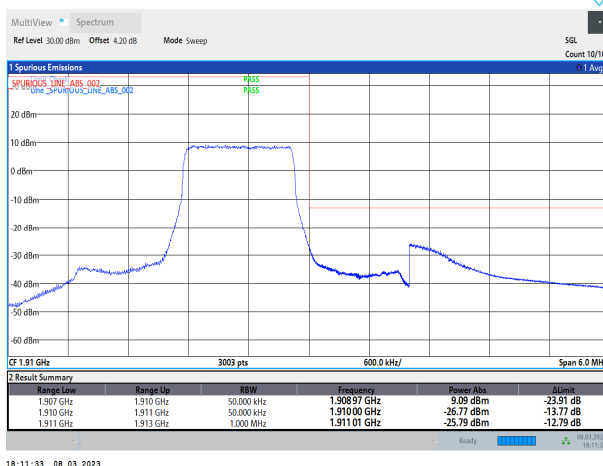
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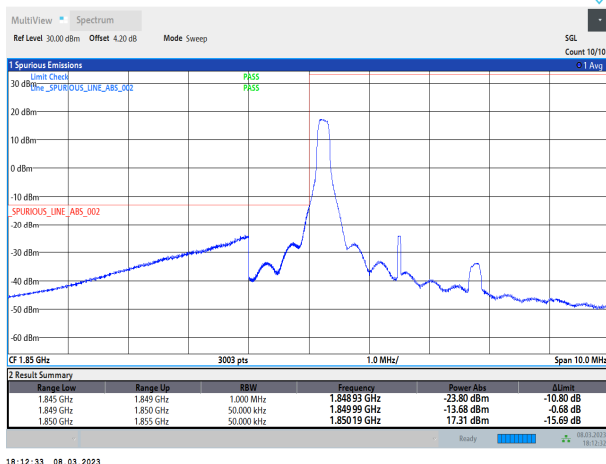
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Band2-3MHz-QPSK-18615-15RB#0



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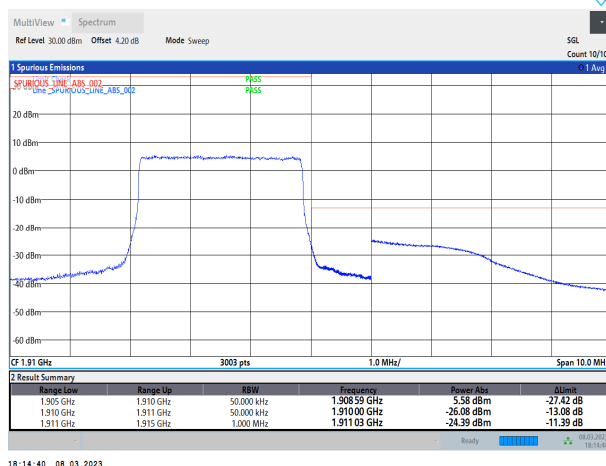
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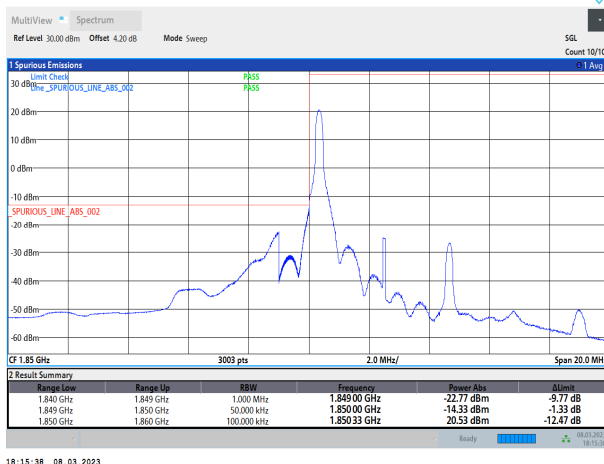
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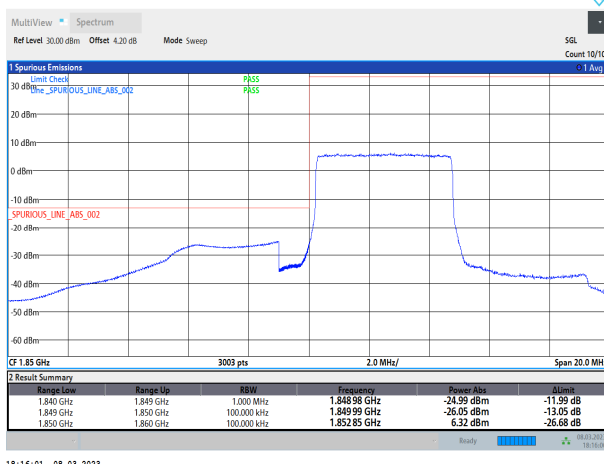
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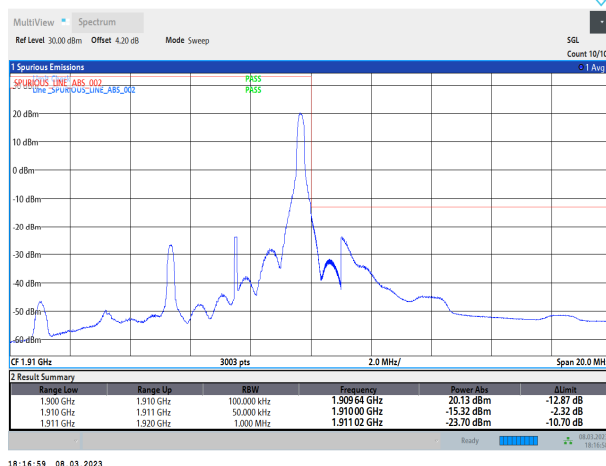
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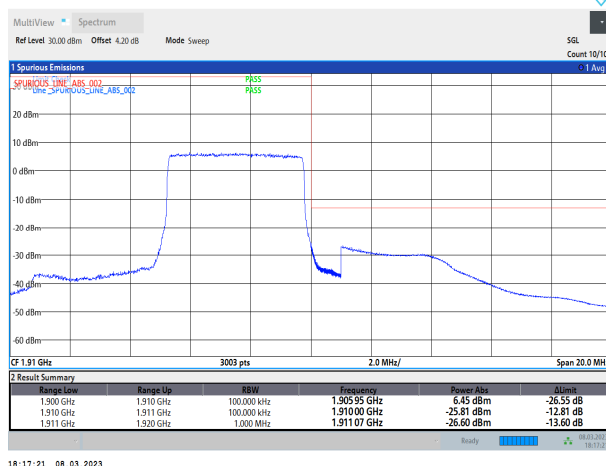
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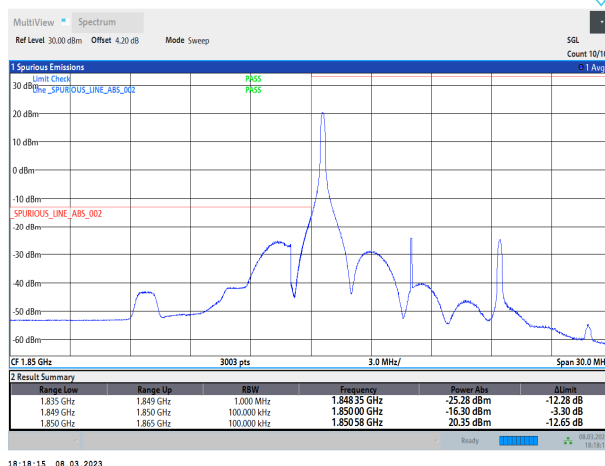


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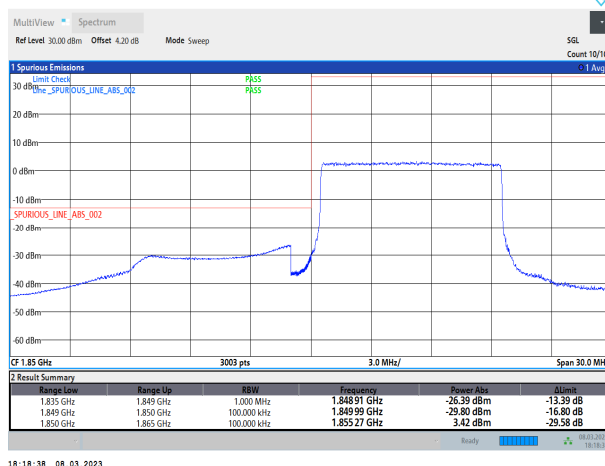
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Band2-10MHz-QPSK-18650-1RB#0



Band2-10MHz-QPSK-18650-50RB#0



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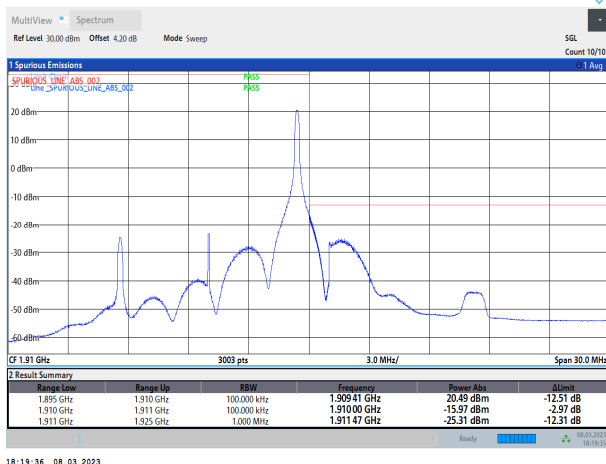
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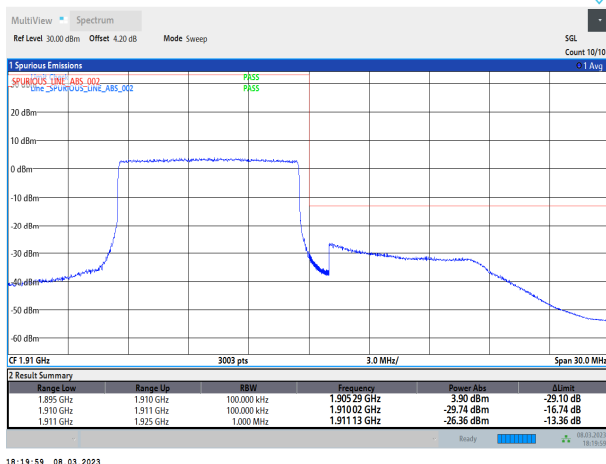
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Band2-10MHz-QPSK-19150-1RB#49



Band2-10MHz-QPSK-19150-50RB#0



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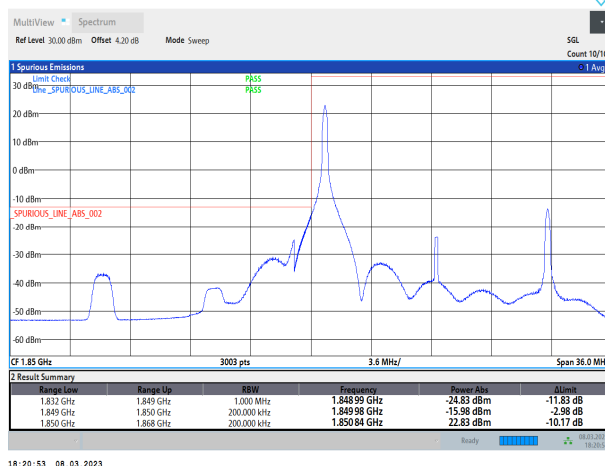
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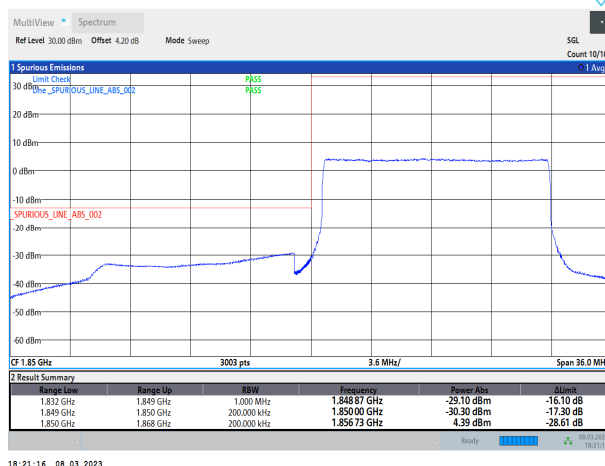
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Band2-15MHz-QPSK-18675-1RB#0



Band2-15MHz-QPSK-18675-75RB#0



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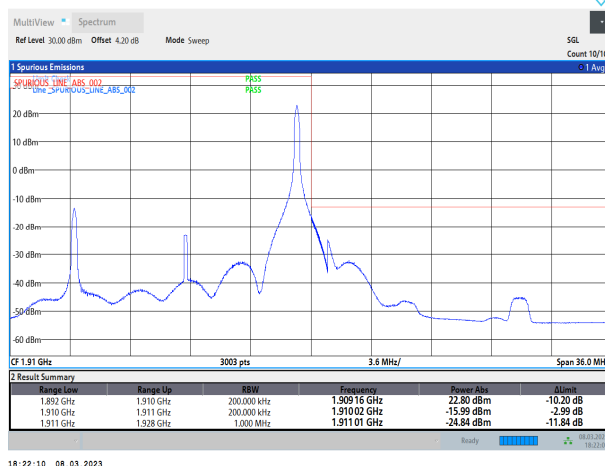
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Band2-15MHz-QPSK-19125-1RB#74



Band2-15MHz-QPSK-19125-75RB#0



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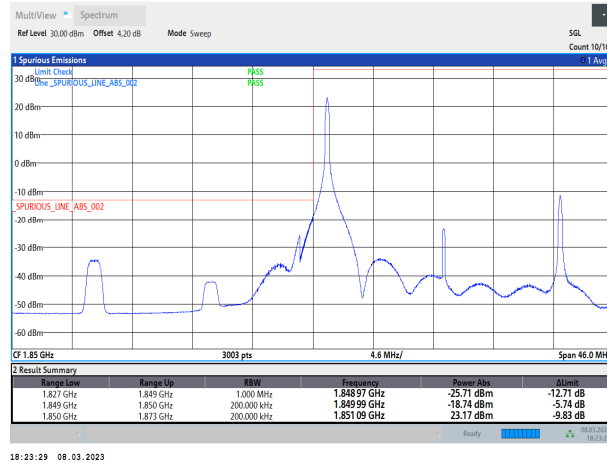
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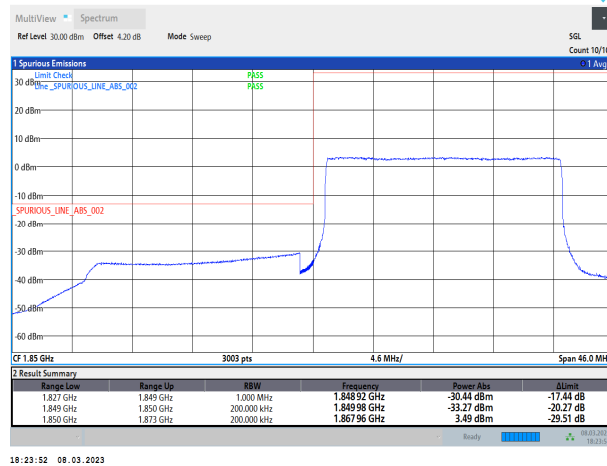
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Band2-20MHz-QPSK-18700-1RB#0



Band2-20MHz-QPSK-18700-100RB#0



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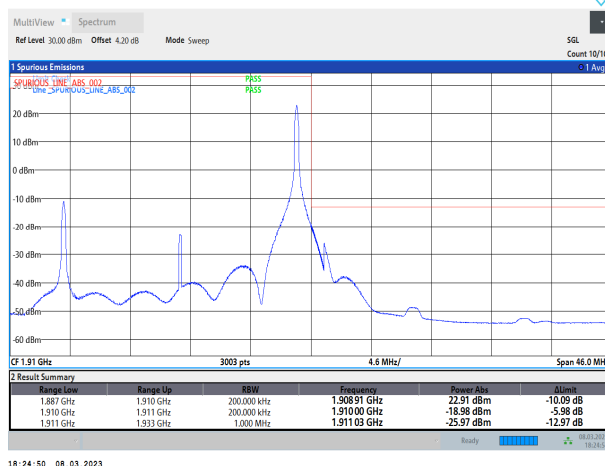
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Band2-20MHz-QPSK-19100-1RB#99



Band2-20MHz-QPSK-19100-100RB#0



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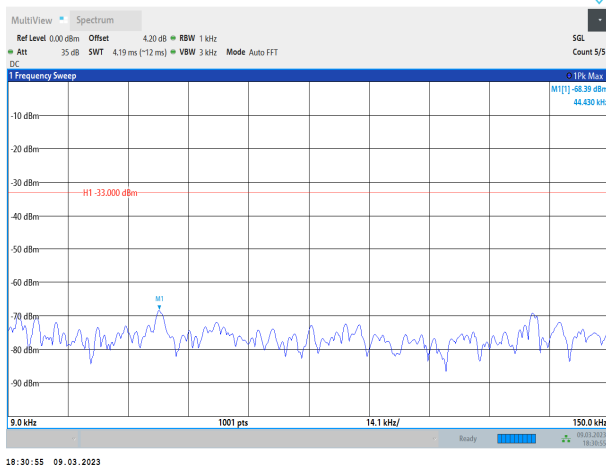
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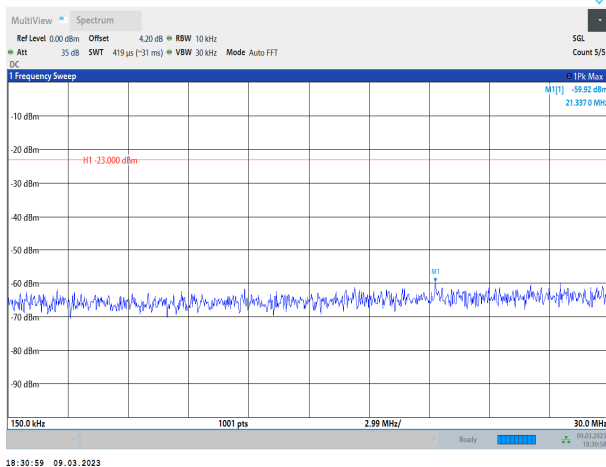
Conducted Spurious Emission

Test Graphs

Band2-20MHz-QPSK-18700-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-18700-1RB#0-Range2:0.15~30MHz



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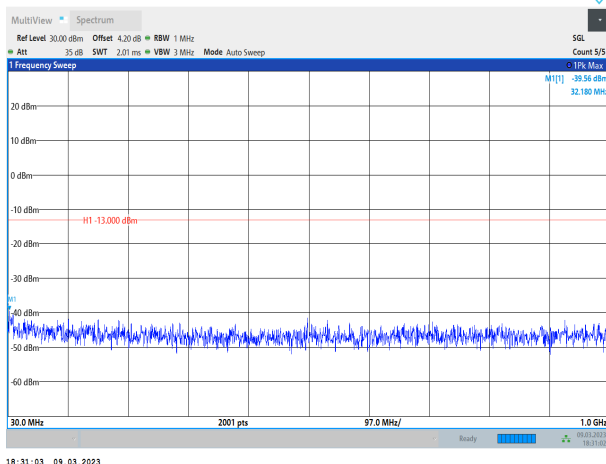
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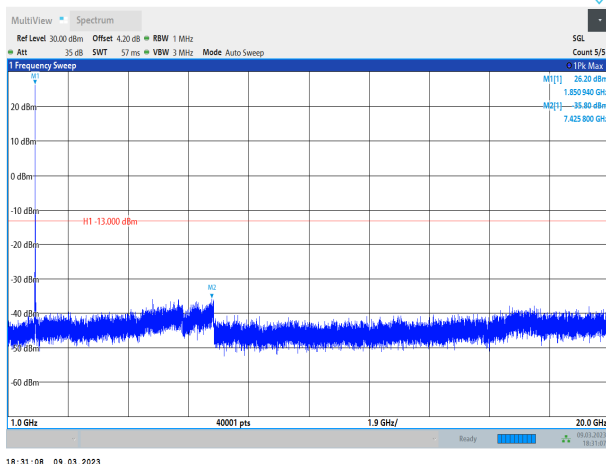
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Band2-20MHz-QPSK-18700-1RB#0-Range3:30~1000MHz



Band2-20MHz-QPSK-18700-1RB#0-Range4:1000~20000MHz



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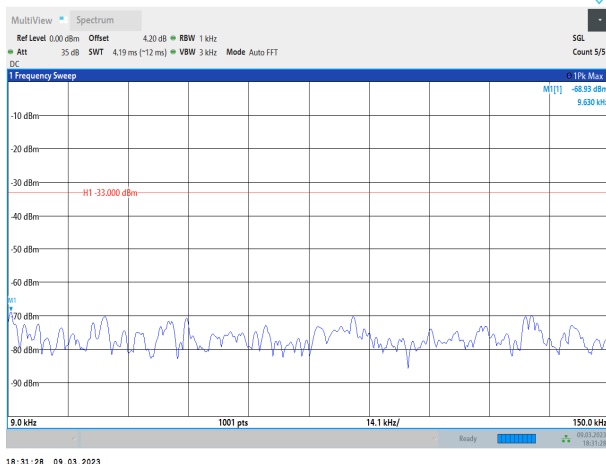
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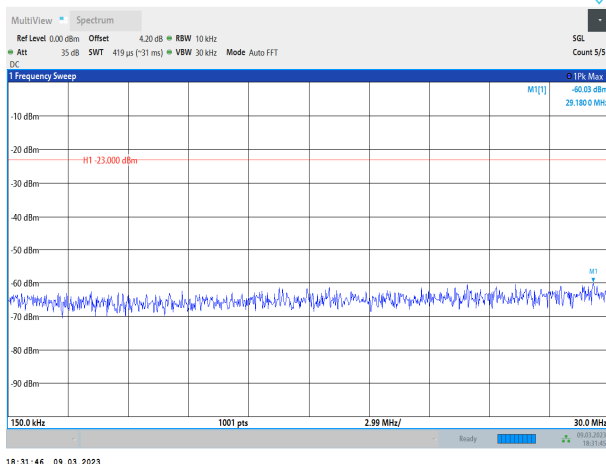
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Band2-20MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-18900-1RB#0-Range2:0.15~30MHz



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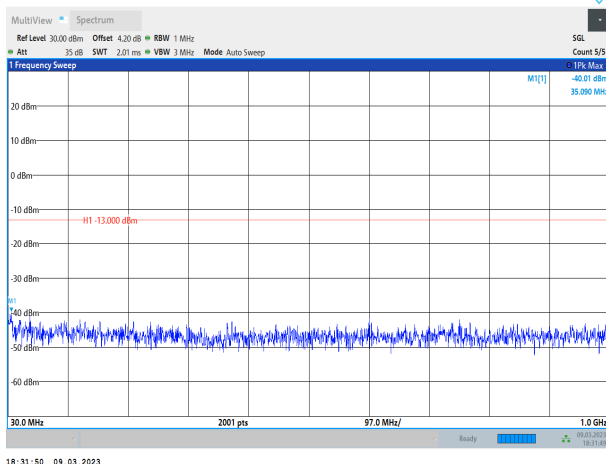
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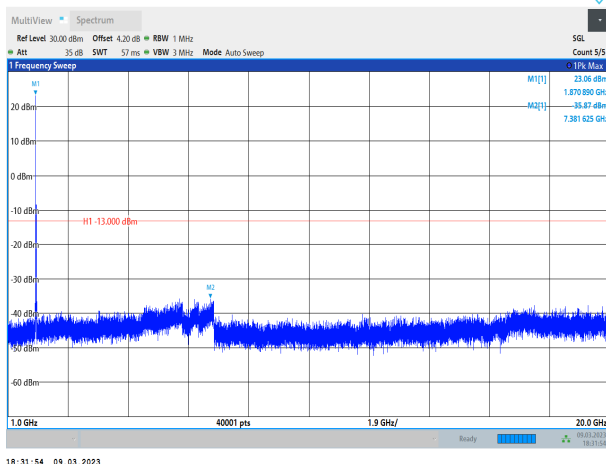
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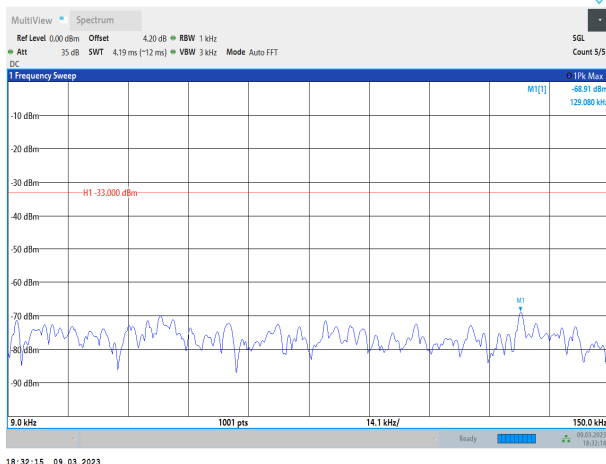


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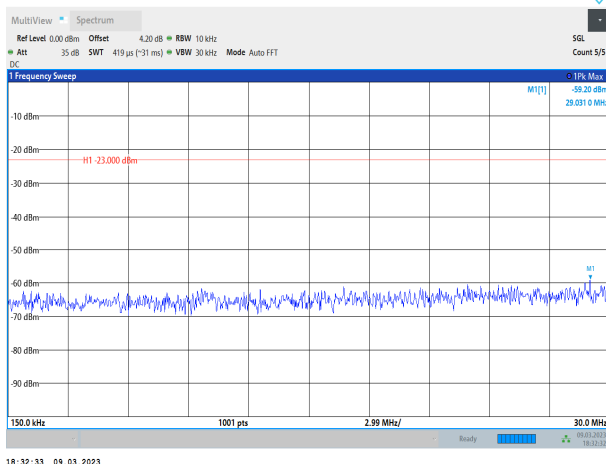
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Band2-20MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-19100-1RB#0-Range2:0.15~30MHz



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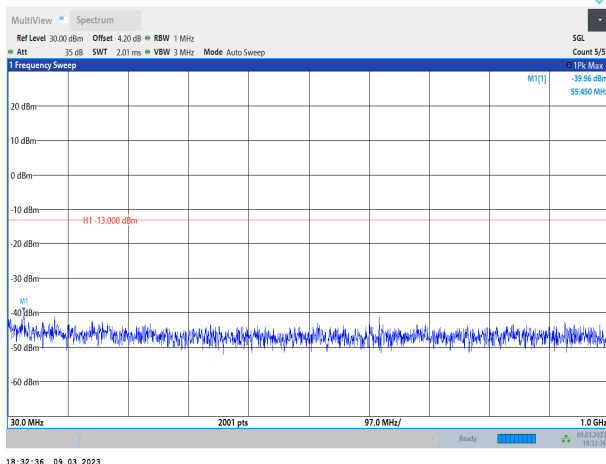
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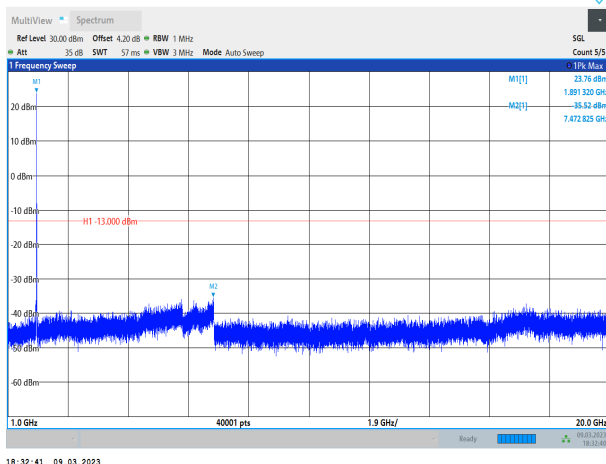
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Band2-20MHz-QPSK-19100-1RB#0-Range3:30~1000MHz



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Field Strength of Spurious Radiation**Test Band = LTE Band 2_20MHz_ TM1****Test Channel = Low Channel****Final Data List**

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| 1 | 3702.18 | 56.83 | -45.69 | 29.89 | -54.24 | -13.00 | 41.24 | 149 | 322 | Horizontal |
| 2 | 5553.27 | 41.39 | -43.87 | 32.77 | -64.97 | -13.00 | 51.97 | 216 | 227 | Horizontal |
| 3 | 7404.36 | 38.79 | -41.96 | 36.44 | -61.99 | -13.00 | 48.99 | 239 | 15 | Horizontal |
| 4 | 9255.45 | 33.23 | -38.39 | 38.57 | -61.85 | -13.00 | 48.85 | 154 | 31 | Horizontal |
| 5 | 11106.54 | 31.58 | -35.35 | 39.49 | -59.54 | -13.00 | 46.54 | 176 | 273 | Horizontal |
| 6 | 12957.63 | 32.97 | -34.89 | 39.56 | -57.63 | -13.00 | 44.63 | 221 | 258 | 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 | 3702 | 51.95 | -45.69 | 29.88 | -59.12 | -13.00 | 46.12 | 162 | 295 | Vertical |
| 2 | 5553.27 | 40.93 | -43.87 | 32.77 | -65.43 | -13.00 | 52.43 | 305 | 344 | Vertical |
| 3 | 7404.36 | 39.14 | -41.96 | 36.44 | -61.64 | -13.00 | 48.64 | 266 | 264 | Vertical |
| 4 | 9255.45 | 33.84 | -38.39 | 38.57 | -61.24 | -13.00 | 48.24 | 185 | 99 | Vertical |
| 5 | 11106.54 | 31.85 | -35.35 | 39.49 | -59.27 | -13.00 | 46.27 | 214 | 81 | Vertical |
| 6 | 12957.63 | 32.91 | -34.89 | 39.56 | -57.69 | -13.00 | 44.69 | 165 | 344 | Vertical |



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Test Band = LTE Band 2_20MHz_ TM1**Test Channel = Mid Channel****Final Data List**

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| 1 | 3742.18 | 57.49 | -45.59 | 29.98 | -53.37 | -13.00 | 40.37 | 143 | 315 | Horizontal |
| 2 | 5613.27 | 40.64 | -43.84 | 32.96 | -65.50 | -13.00 | 52.50 | 256 | 166 | Horizontal |
| 3 | 7484.36 | 38.96 | -41.66 | 36.49 | -61.47 | -13.00 | 48.47 | 184 | 353 | Horizontal |
| 4 | 9355.45 | 34.81 | -38.26 | 38.56 | -60.15 | -13.00 | 47.15 | 236 | 298 | Horizontal |
| 5 | 11226.54 | 31.92 | -35.07 | 39.37 | -59.03 | -13.00 | 46.03 | 289 | 166 | Horizontal |
| 6 | 13097.63 | 31.99 | -34.47 | 39.66 | -58.08 | -13.00 | 45.08 | 176 | 182 | 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 | 3742.18 | 49.32 | -45.59 | 29.98 | -61.54 | -13.00 | 48.54 | 279 | 296 | Vertical |
| 2 | 5613.27 | 40.99 | -43.84 | 32.96 | -65.15 | -13.00 | 52.15 | 143 | 279 | Vertical |
| 3 | 7484.36 | 38.93 | -41.66 | 36.49 | -61.50 | -13.00 | 48.50 | 158 | 99 | Vertical |
| 4 | 9355.45 | 34.42 | -38.26 | 38.56 | -60.54 | -13.00 | 47.54 | 219 | 314 | Vertical |
| 5 | 11226.54 | 31.76 | -35.07 | 39.37 | -59.19 | -13.00 | 46.19 | 234 | 16 | Vertical |
| 6 | 13097.63 | 32.83 | -34.47 | 39.66 | -57.24 | -13.00 | 44.24 | 251 | 16 | Vertical |



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Test Band = LTE Band 2_20MHz_ TM1**Test Channel = High Channel****Final Data List**

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| 1 | 3782.18 | 60.59 | -45.48 | 30.08 | -50.07 | -13.00 | 37.07 | 238 | 313 | Horizontal |
| 2 | 5673.27 | 40.74 | -43.77 | 33.16 | -65.14 | -13.00 | 52.14 | 149 | 49 | Horizontal |
| 3 | 7564.36 | 37.40 | -41.38 | 36.63 | -62.61 | -13.00 | 49.61 | 216 | 265 | Horizontal |
| 4 | 9455.45 | 35.38 | -38.15 | 38.55 | -59.48 | -13.00 | 46.48 | 255 | 148 | Horizontal |
| 5 | 11346.54 | 31.01 | -35.43 | 39.25 | -60.43 | -13.00 | 47.43 | 184 | 360 | Horizontal |
| 6 | 13237.63 | 31.58 | -34.98 | 39.74 | -58.91 | -13.00 | 45.91 | 226 | 360 | 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 | 3782.18 | 51.52 | -45.48 | 30.08 | -59.14 | -13.00 | 46.14 | 274 | 295 | Vertical |
| 2 | 5673.27 | 41.00 | -43.77 | 33.16 | -64.88 | -13.00 | 51.88 | 196 | 50 | Vertical |
| 3 | 7564.36 | 38.15 | -41.38 | 36.63 | -61.86 | -13.00 | 48.86 | 216 | 360 | Vertical |
| 4 | 9455.45 | 35.86 | -38.15 | 38.55 | -59.00 | -13.00 | 46.00 | 235 | 280 | Vertical |
| 5 | 11346.54 | 31.88 | -35.43 | 39.25 | -59.56 | -13.00 | 46.56 | 241 | 280 | Vertical |
| 6 | 13237.63 | 31.53 | -34.98 | 39.74 | -58.96 | -13.00 | 45.96 | 156 | 197 | 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) - Preamp (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 |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | VL | NT | -4.60 | -0.002447 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | VN | NT | -5.30 | -0.002819 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | VH | NT | -3.50 | -0.001862 | PASS |

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | -30 | -5.30 | -0.002819 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | -20 | -1.10 | -0.000585 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | -10 | -5.20 | -0.002766 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | 0 | -2.90 | -0.001543 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | 10 | -5.70 | -0.003032 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | 20 | -2.90 | -0.001543 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | 30 | -1.00 | -0.000532 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | 40 | -3.40 | -0.001809 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | 50 | -5.70 | -0.003032 | PASS |

---End of Attachment---



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