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Appendix B.2

LTE Band 2



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Wireless Laboratory

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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 | 23.19 | 25.86 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 18607 | 1RB#2 | 23.31 | 25.98 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 18607 | 1RB#5 | 23.22 | 25.89 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 18607 | 6RB#0 | 22.31 | 24.98 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1RB#0 | 23.32 | 25.99 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1RB#2 | 23.35 | 26.02 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 1RB#5 | 23.31 | 25.98 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 6RB#0 | 22.36 | 25.03 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 1RB#0 | 23.38 | 26.05 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 1RB#2 | 23.46 | 26.13 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 1RB#5 | 23.39 | 26.06 | 33.00 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 6RB#0 | 22.45 | 25.12 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 1RB#0 | 22.50 | 25.17 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 1RB#2 | 22.58 | 25.25 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 1RB#5 | 22.44 | 25.11 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 6RB#0 | 21.35 | 24.02 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1RB#0 | 22.54 | 25.21 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1RB#2 | 22.70 | 25.37 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 1RB#5 | 22.58 | 25.25 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 6RB#0 | 21.27 | 23.94 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 1RB#0 | 22.41 | 25.08 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 1RB#2 | 22.48 | 25.15 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 1RB#5 | 22.39 | 25.06 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 6RB#0 | 21.49 | 24.16 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 18615 | 1RB#0 | 23.23 | 25.9 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 18615 | 1RB#8 | 23.28 | 25.95 | 33.00 | PASS |



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| | | | | | | | | |
|-------|------|-------|-------|--------|-------|-------|-------|------|
| Band2 | 3MHz | QPSK | 18615 | 1RB#14 | 23.20 | 25.87 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 18615 | 15RB#0 | 22.37 | 25.04 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 18900 | 1RB#0 | 23.35 | 26.02 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 18900 | 1RB#8 | 23.44 | 26.11 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 18900 | 1RB#14 | 23.34 | 26.01 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 18900 | 15RB#0 | 22.51 | 25.18 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 19185 | 1RB#0 | 23.44 | 26.11 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 19185 | 1RB#8 | 23.55 | 26.22 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 19185 | 1RB#14 | 23.44 | 26.11 | 33.00 | PASS |
| Band2 | 3MHz | QPSK | 19185 | 15RB#0 | 22.59 | 25.26 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 1RB#0 | 22.49 | 25.16 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 1RB#8 | 22.59 | 25.26 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 1RB#14 | 22.41 | 25.08 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 15RB#0 | 21.47 | 24.14 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 1RB#0 | 22.60 | 25.27 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 1RB#8 | 22.76 | 25.43 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 1RB#14 | 22.61 | 25.28 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 15RB#0 | 21.47 | 24.14 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 1RB#0 | 22.40 | 25.07 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 1RB#8 | 22.54 | 25.21 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 1RB#14 | 22.42 | 25.09 | 33.00 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 15RB#0 | 21.57 | 24.24 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 18625 | 1RB#0 | 23.12 | 25.79 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 18625 | 1RB#12 | 23.41 | 26.08 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 18625 | 1RB#24 | 23.06 | 25.73 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 18625 | 25RB#0 | 22.33 | 25 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 18900 | 1RB#0 | 23.25 | 25.92 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 18900 | 1RB#12 | 23.49 | 26.16 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 18900 | 1RB#24 | 23.24 | 25.91 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 18900 | 25RB#0 | 22.46 | 25.13 | 33.00 | PASS |
| Band2 | 5MHz | QPSK | 19175 | 1RB#0 | 23.31 | 25.98 | 33.00 | PASS |



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Table with 9 columns: Band, Frequency, Modulation, Channel, ID, S1, S2, S3, Result. Contains 36 rows of test data for various frequencies (5MHz, 10MHz) and modulations (QPSK, 16QAM).



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| | | | | | | | | |
|-------|-------|-------|-------|--------|-------|-------|-------|------|
| Band2 | 10MHz | 16QAM | 18900 | 1RB#0 | 21.90 | 24.57 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#24 | 22.53 | 25.2 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#49 | 21.90 | 24.57 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 50RB#0 | 21.29 | 23.96 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#0 | 22.28 | 24.95 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#24 | 22.32 | 24.99 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#49 | 22.46 | 25.13 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 50RB#0 | 21.34 | 24.01 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 18675 | 1RB#0 | 23.02 | 25.69 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 18675 | 1RB#38 | 23.36 | 26.03 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 18675 | 1RB#74 | 22.98 | 25.65 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 18675 | 75RB#0 | 22.37 | 25.04 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 18900 | 1RB#0 | 23.55 | 26.22 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 18900 | 1RB#38 | 23.46 | 26.13 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 18900 | 1RB#74 | 23.52 | 26.19 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 18900 | 75RB#0 | 22.46 | 25.13 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 19125 | 1RB#0 | 23.59 | 26.26 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 19125 | 1RB#38 | 23.54 | 26.21 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 19125 | 1RB#74 | 23.60 | 26.27 | 33.00 | PASS |
| Band2 | 15MHz | QPSK | 19125 | 75RB#0 | 22.60 | 25.27 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#0 | 22.34 | 25.01 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#38 | 22.59 | 25.26 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#74 | 22.25 | 24.92 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 75RB#0 | 21.35 | 24.02 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#0 | 22.88 | 25.55 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#38 | 22.93 | 25.6 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#74 | 22.95 | 25.62 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 75RB#0 | 21.51 | 24.18 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#0 | 22.57 | 25.24 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#38 | 22.50 | 25.17 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#74 | 22.58 | 25.25 | 33.00 | PASS |



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Table with 9 columns: Band, Frequency, Modulation, Power, Modulation Index, SNR, BER, and Pass/Fail. It contains 28 rows of test results for various Band2 configurations.



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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 | 5.08 | 13 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | 5.62 | 13 | PASS |
| Band2 | 20MHz | QPSK | 19100 | 100RB#0 | 5.14 | 13 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | 5.98 | 13 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | 6.48 | 13 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | 6.02 | 13 | PASS |

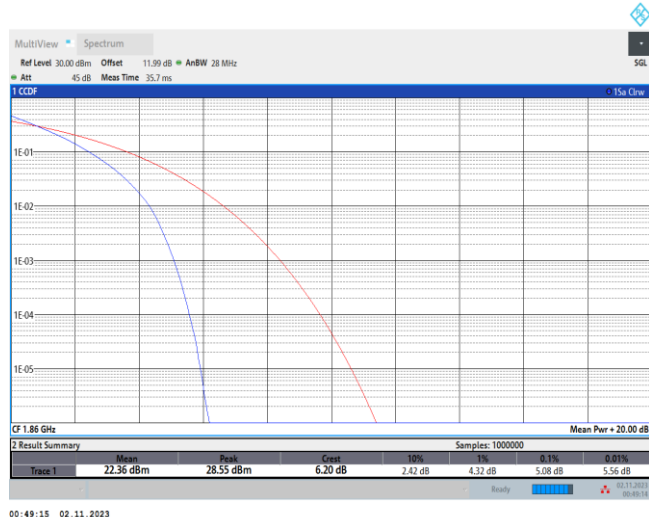


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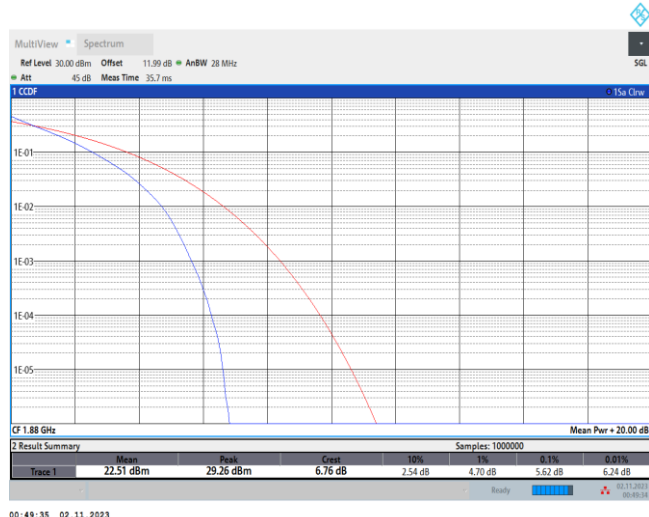
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Test Graphs

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



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

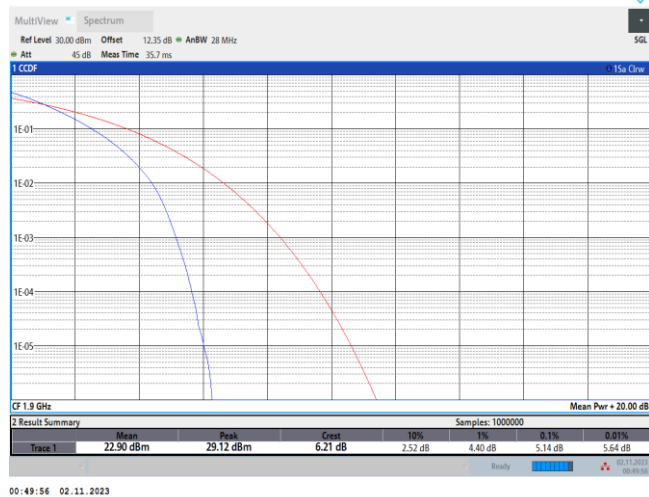


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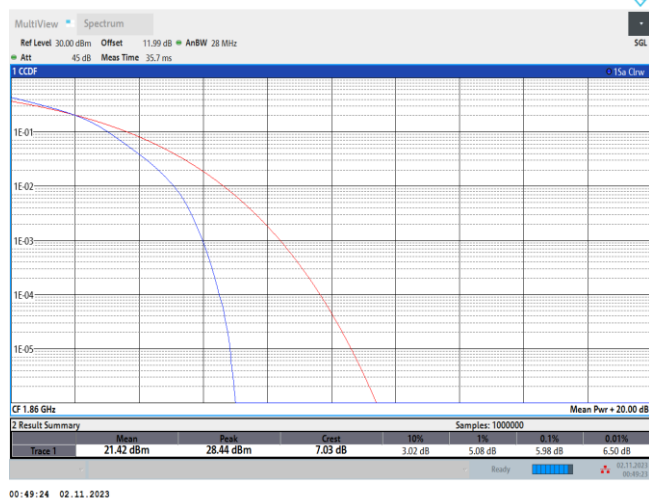
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Band2-20MHz-QPSK-19100-100RB#0



Band2-20MHz-16QAM-18700-100RB#0



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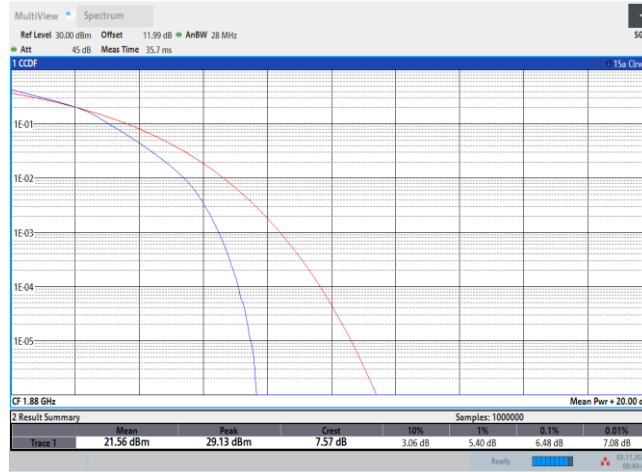
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Band2-20MHz-16QAM-18900-100RB#0



00:49:44 02.11.2023



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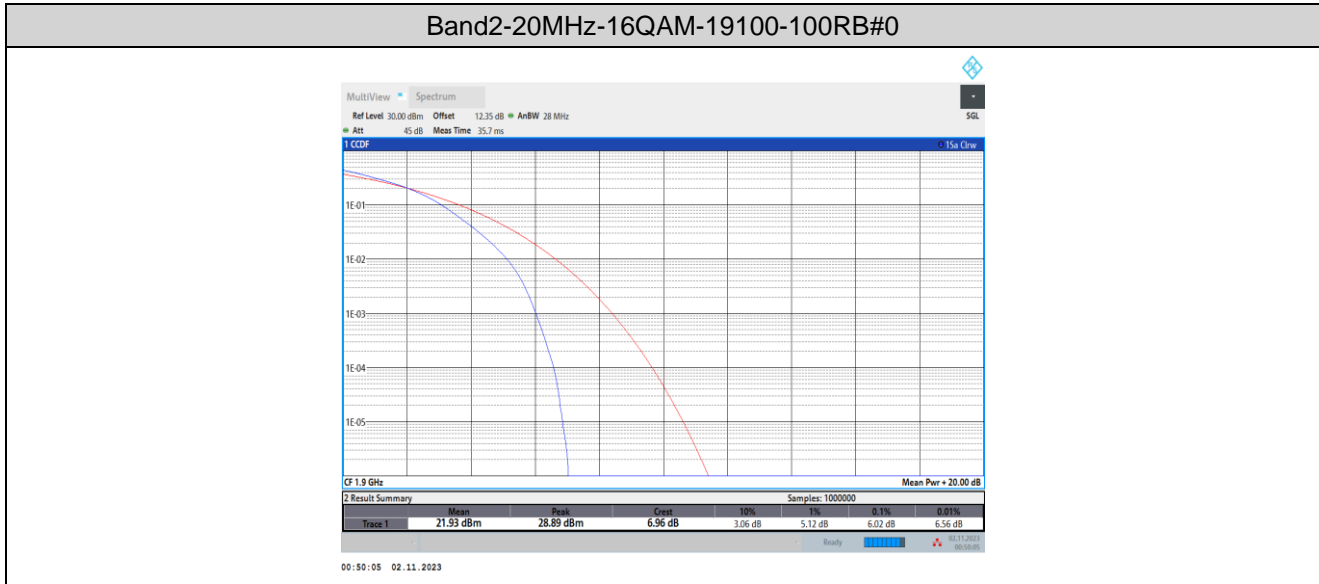
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26dB Bandwidth and Occupied Bandwidth

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band2 | 1.4MHz | QPSK | 18607 | 6RB#0 | 1.079 | 1.22 | PASS |
| Band2 | 1.4MHz | QPSK | 18900 | 6RB#0 | 1.092 | 1.24 | PASS |
| Band2 | 1.4MHz | QPSK | 19193 | 6RB#0 | 1.092 | 1.25 | PASS |
| Band2 | 1.4MHz | 16QAM | 18607 | 6RB#0 | 1.095 | 1.25 | PASS |
| Band2 | 1.4MHz | 16QAM | 18900 | 6RB#0 | 1.096 | 1.25 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 6RB#0 | 1.095 | 1.25 | PASS |
| Band2 | 3MHz | QPSK | 18615 | 15RB#0 | 2.697 | 2.99 | PASS |
| Band2 | 3MHz | QPSK | 18900 | 15RB#0 | 2.705 | 2.99 | PASS |
| Band2 | 3MHz | QPSK | 19185 | 15RB#0 | 2.701 | 2.98 | PASS |
| Band2 | 3MHz | 16QAM | 18615 | 15RB#0 | 2.692 | 2.99 | PASS |
| Band2 | 3MHz | 16QAM | 18900 | 15RB#0 | 2.696 | 2.99 | PASS |
| Band2 | 3MHz | 16QAM | 19185 | 15RB#0 | 2.692 | 2.98 | PASS |
| Band2 | 5MHz | QPSK | 18625 | 25RB#0 | 4.484 | 4.91 | PASS |
| Band2 | 5MHz | QPSK | 18900 | 25RB#0 | 4.487 | 4.91 | PASS |
| Band2 | 5MHz | QPSK | 19175 | 25RB#0 | 4.491 | 4.91 | PASS |
| Band2 | 5MHz | 16QAM | 18625 | 25RB#0 | 4.468 | 4.85 | PASS |
| Band2 | 5MHz | 16QAM | 18900 | 25RB#0 | 4.471 | 4.86 | PASS |
| Band2 | 5MHz | 16QAM | 19175 | 25RB#0 | 4.473 | 4.86 | PASS |
| Band2 | 10MHz | QPSK | 18650 | 50RB#0 | 8.937 | 9.68 | PASS |
| Band2 | 10MHz | QPSK | 18900 | 50RB#0 | 8.952 | 9.68 | PASS |
| Band2 | 10MHz | QPSK | 19150 | 50RB#0 | 8.945 | 9.66 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 50RB#0 | 8.93 | 9.54 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 50RB#0 | 8.944 | 9.58 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 50RB#0 | 8.948 | 9.70 | PASS |
| Band2 | 15MHz | QPSK | 18675 | 75RB#0 | 13.446 | 14.79 | PASS |
| Band2 | 15MHz | QPSK | 18900 | 75RB#0 | 13.491 | 14.82 | PASS |
| Band2 | 15MHz | QPSK | 19125 | 75RB#0 | 13.461 | 14.76 | PASS |



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Rev.: 01

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|-------|-------|-------|-------|---------|--------|-------|------|
| Band2 | 15MHz | 16QAM | 18675 | 75RB#0 | 13.423 | 14.73 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 75RB#0 | 13.49 | 14.82 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 75RB#0 | 13.466 | 14.70 | PASS |
| Band2 | 20MHz | QPSK | 18700 | 100RB#0 | 17.85 | 19.16 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | 17.946 | 19.68 | PASS |
| Band2 | 20MHz | QPSK | 19100 | 100RB#0 | 17.861 | 19.28 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | 17.874 | 19.32 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | 17.924 | 19.52 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | 17.873 | 19.28 | PASS |



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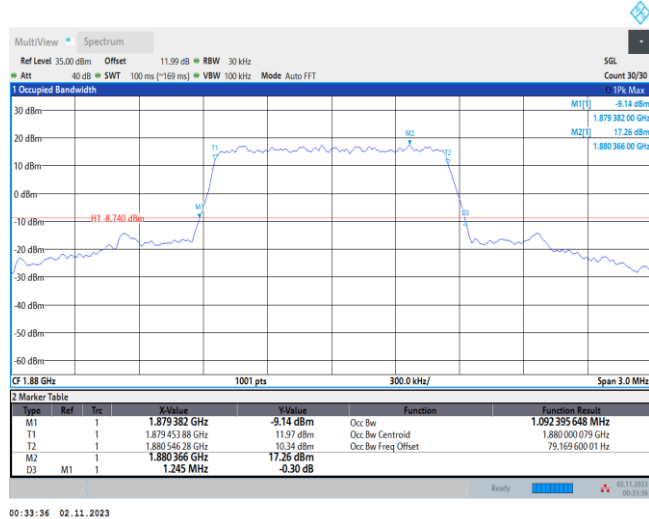
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Test Graphs

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



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



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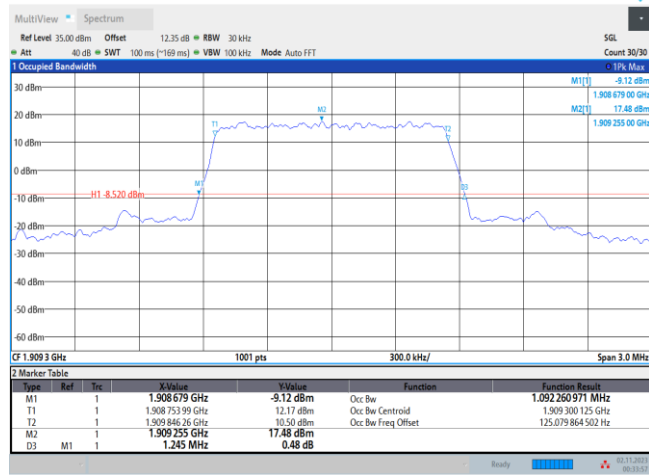
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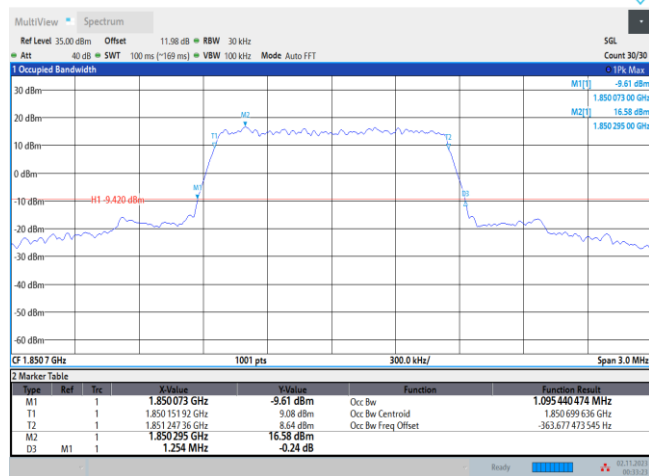
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Band2-1.4MHz-QPSK-19193-6RB#0



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



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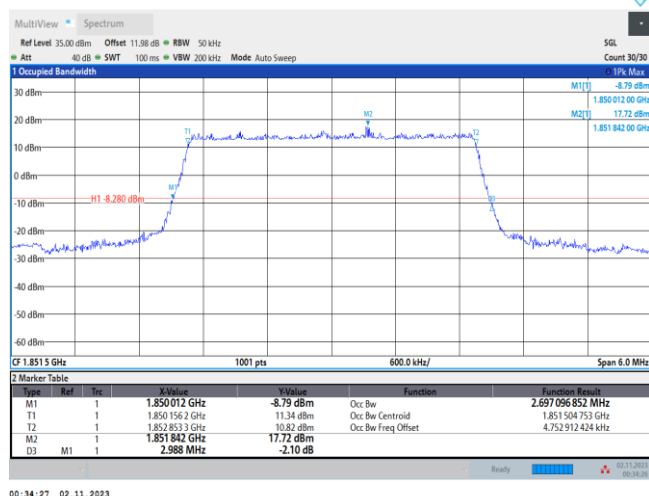
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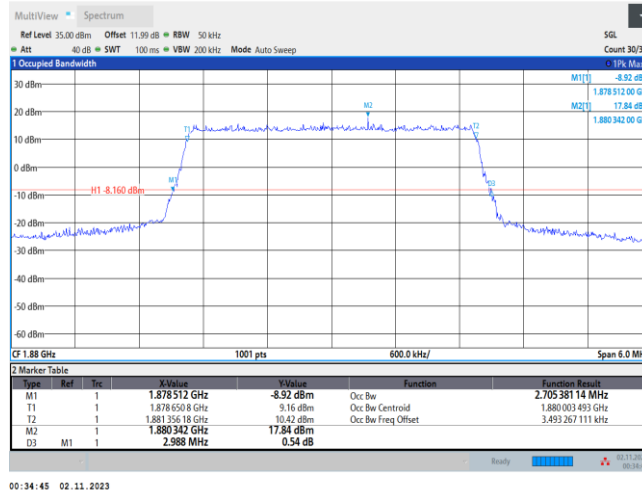
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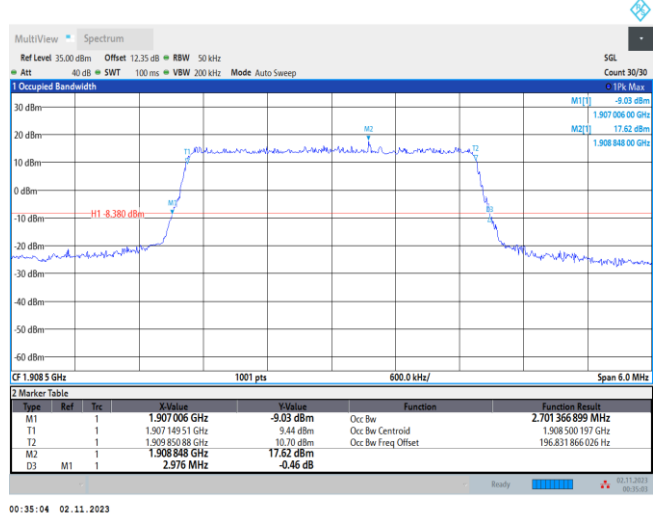
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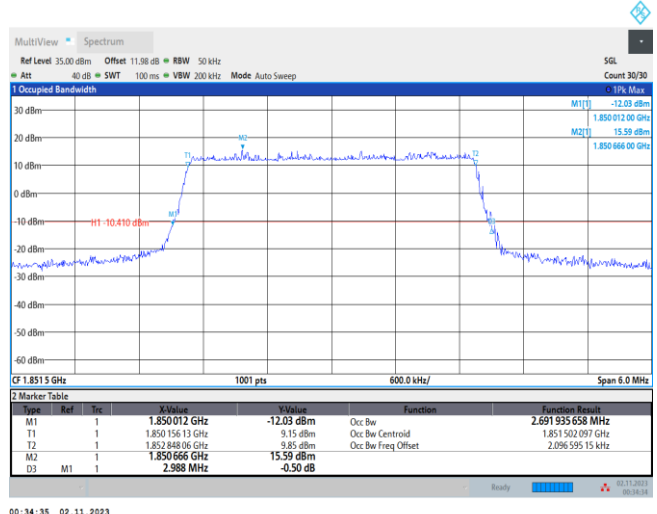
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Band2-3MHz-16QAM-18615-15RB#0

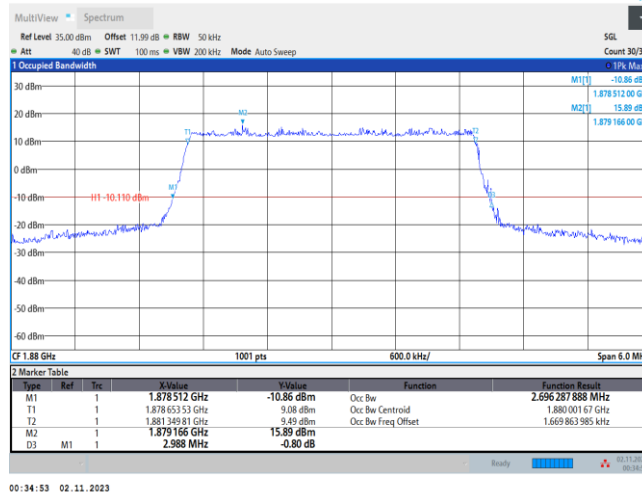


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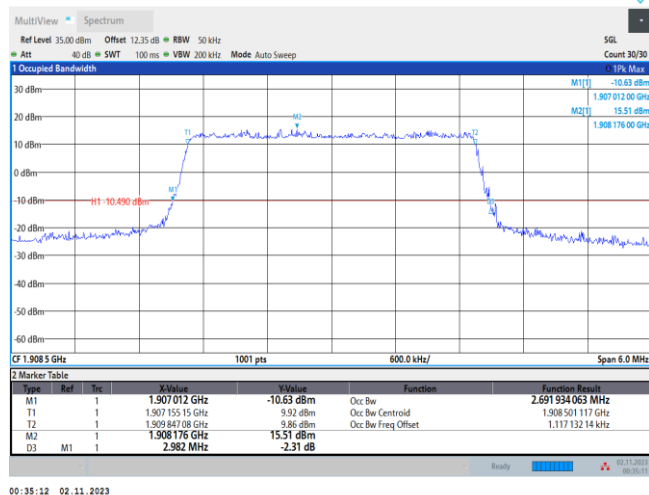
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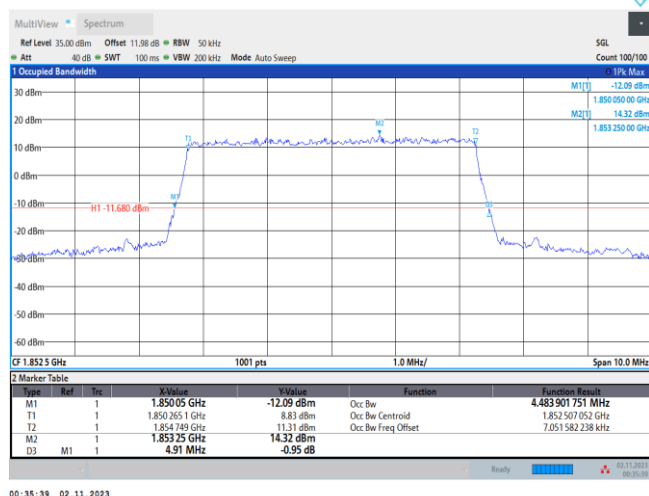
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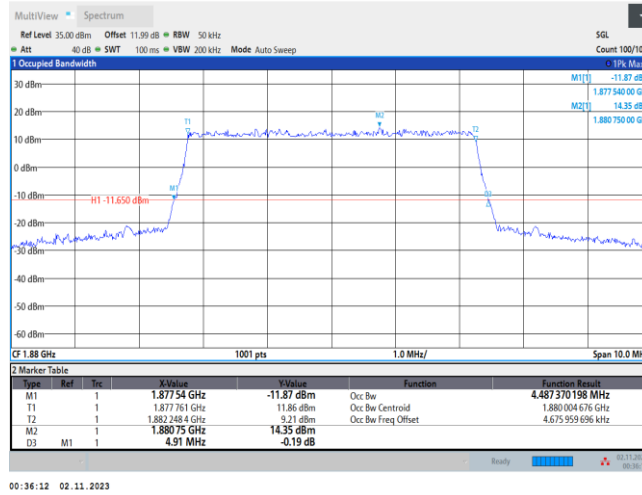


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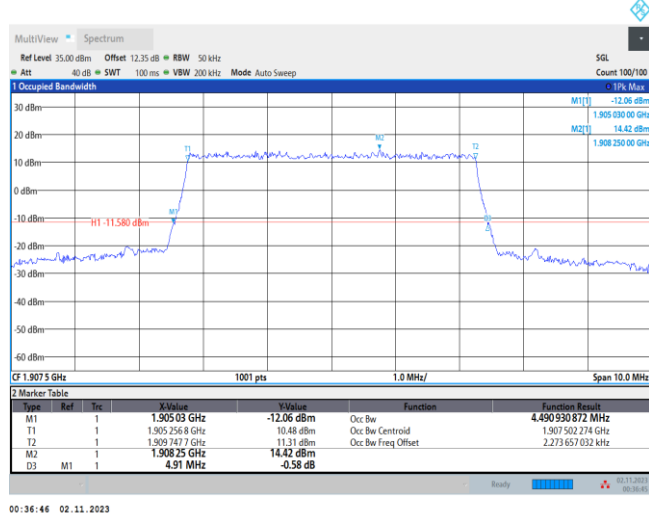
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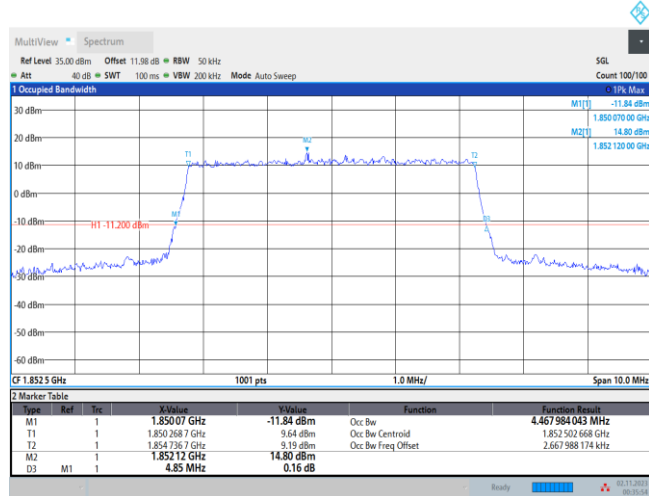
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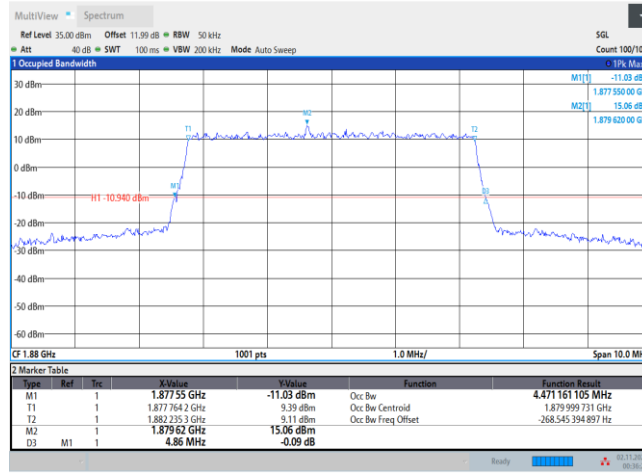
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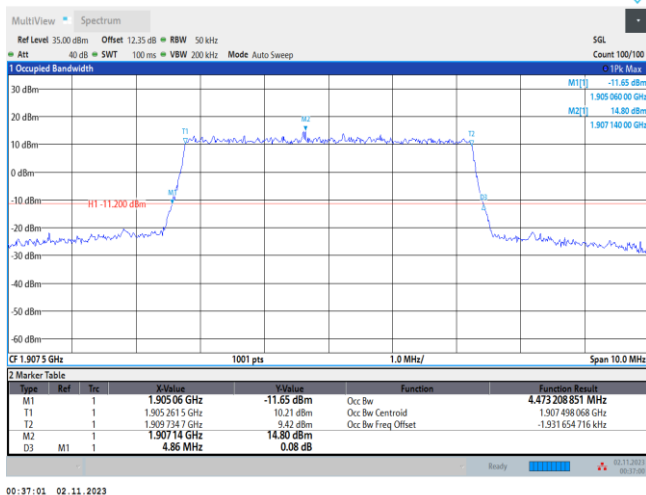
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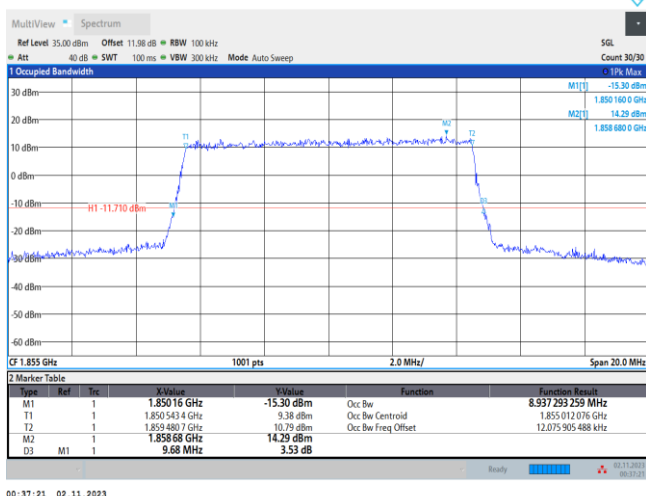
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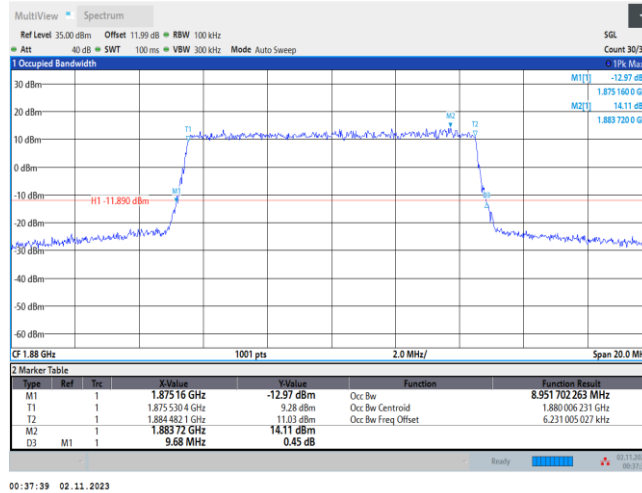


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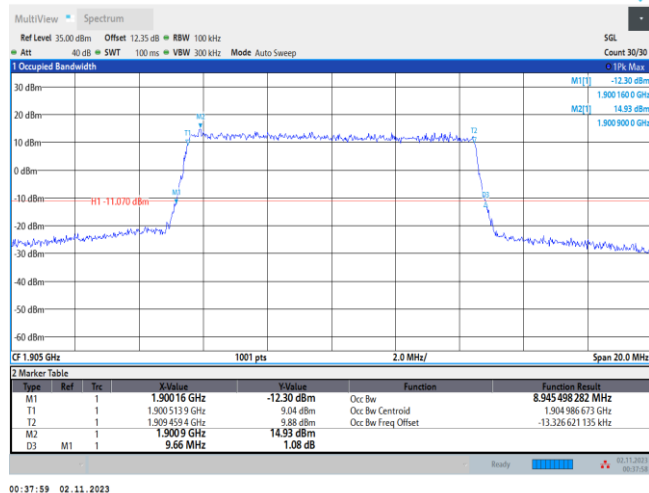
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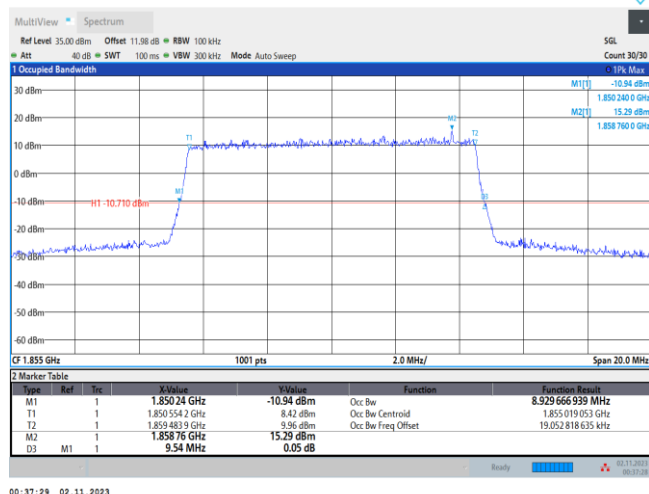
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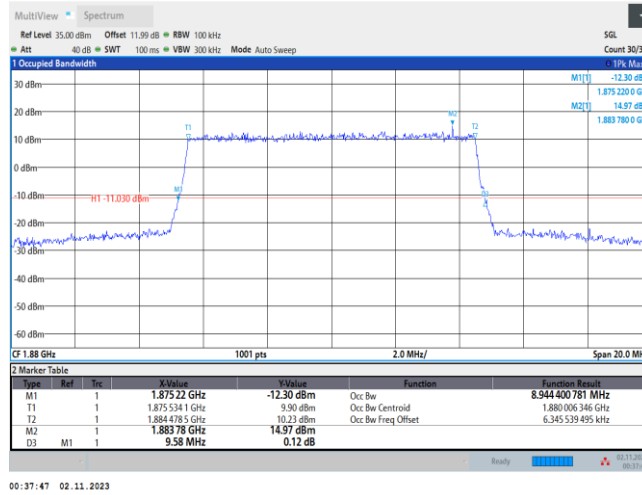
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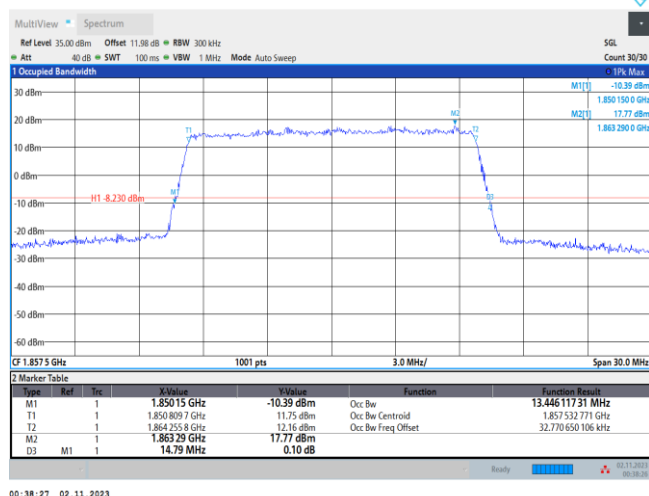
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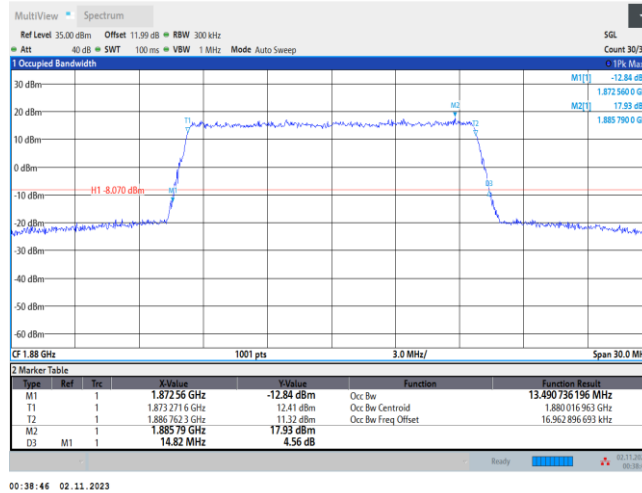
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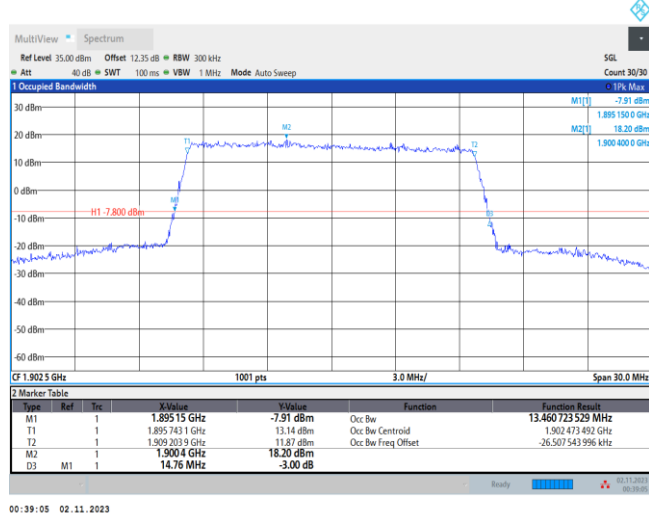
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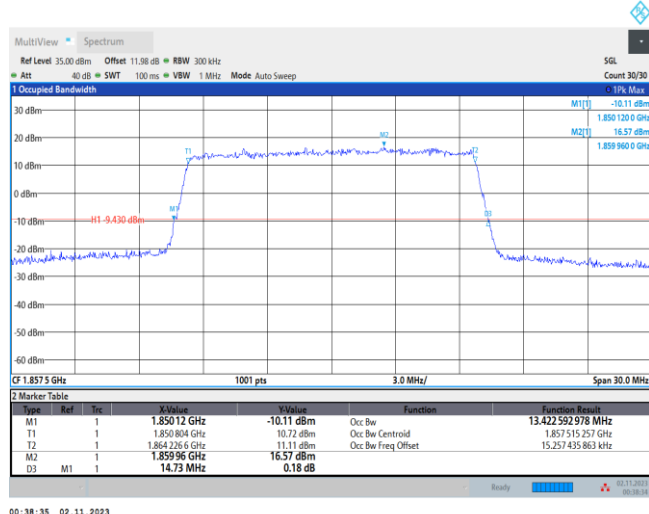
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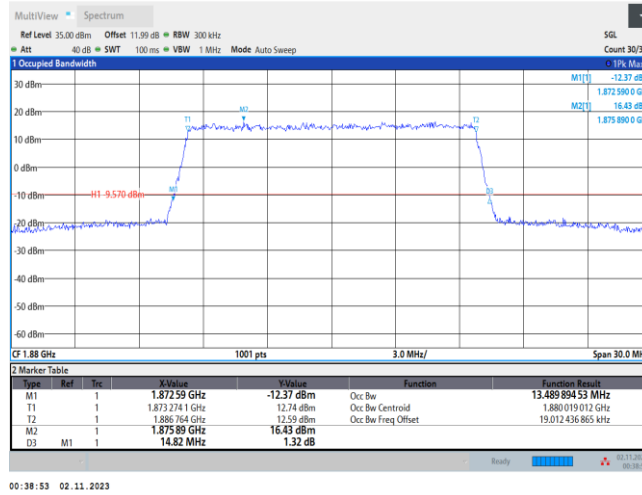
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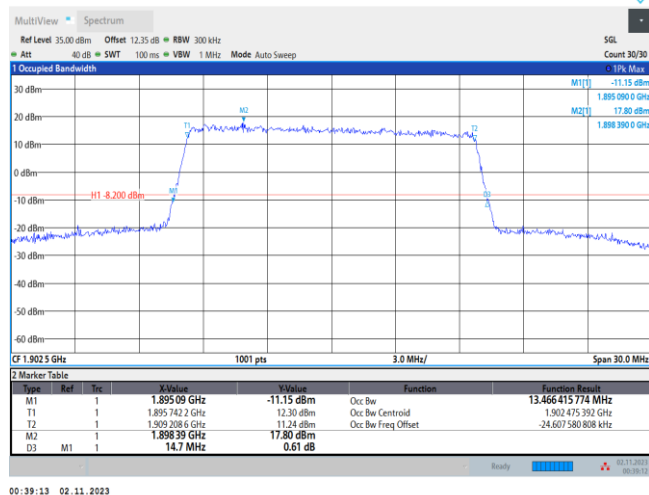
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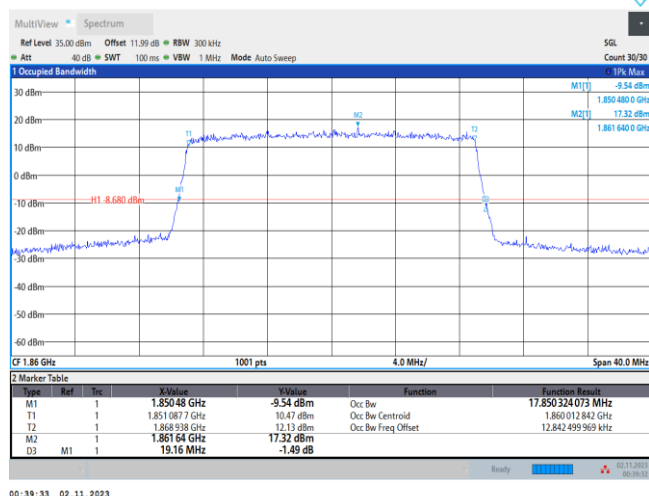
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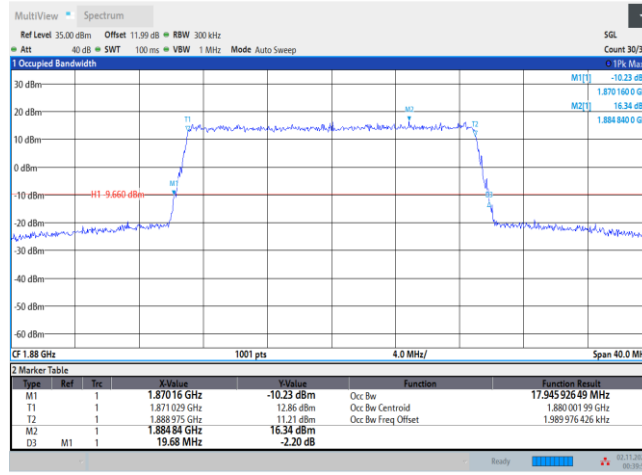
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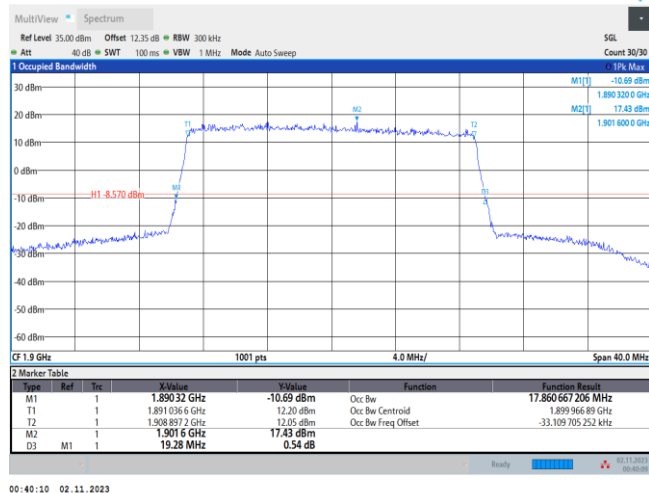
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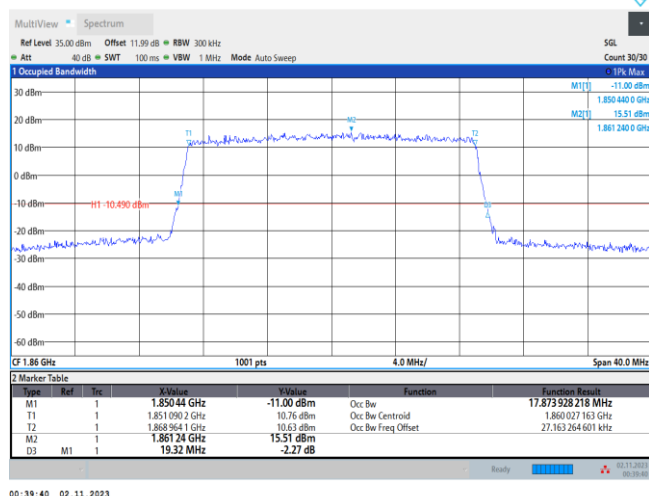
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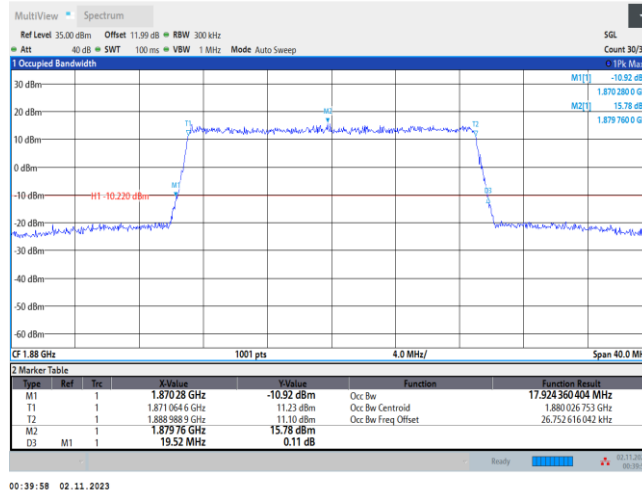


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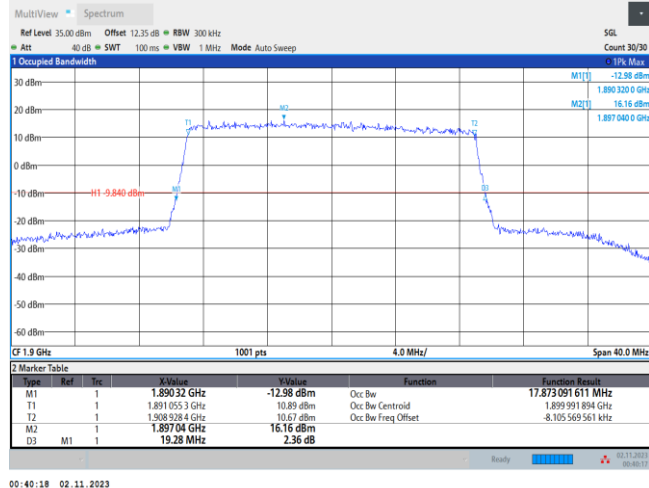
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Band2-20MHz-16QAM-19100-100RB#0



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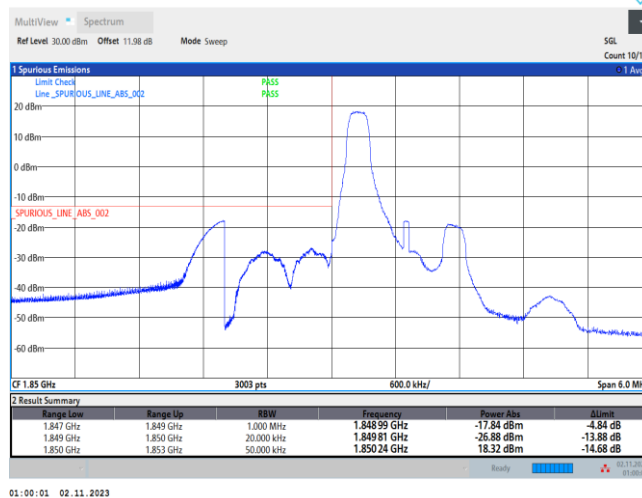
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Band Edge

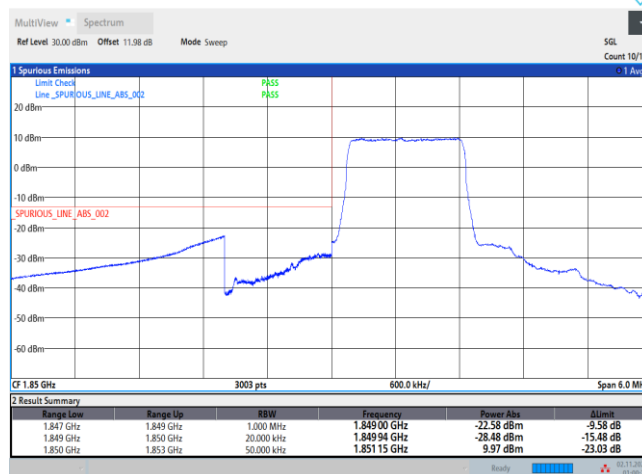
Test Graphs

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



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

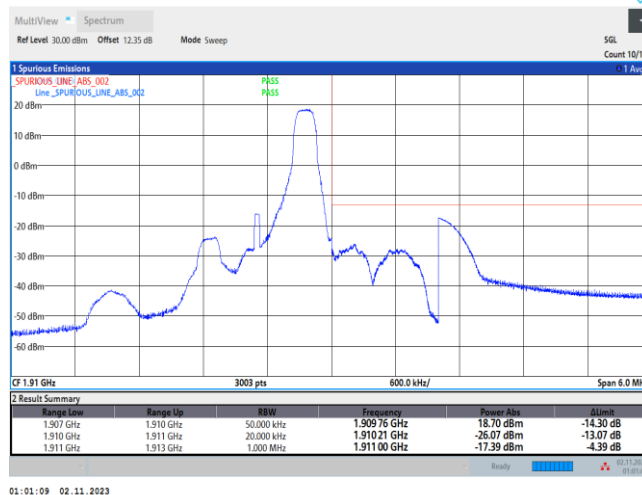


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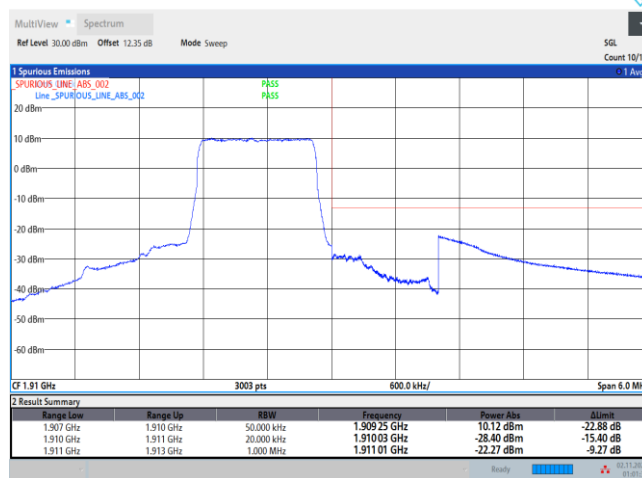
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Band2-1.4MHz-QPSK-19193-1RB#5



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



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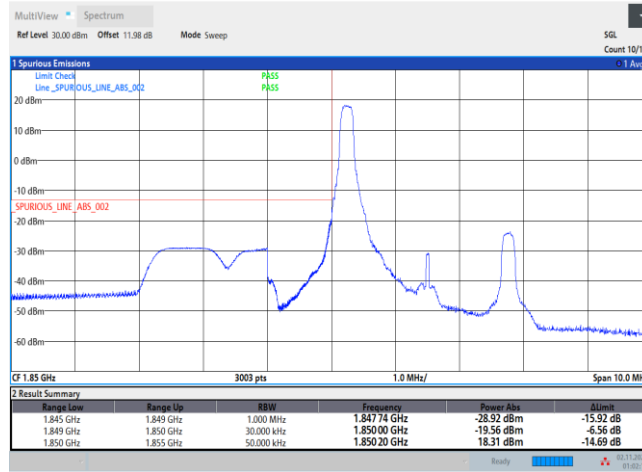
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Report No.: XEWA2310000073RG01

Rev.: 01

Page: 40 of 65

Band2-3MHz-QPSK-18615-1RB#0



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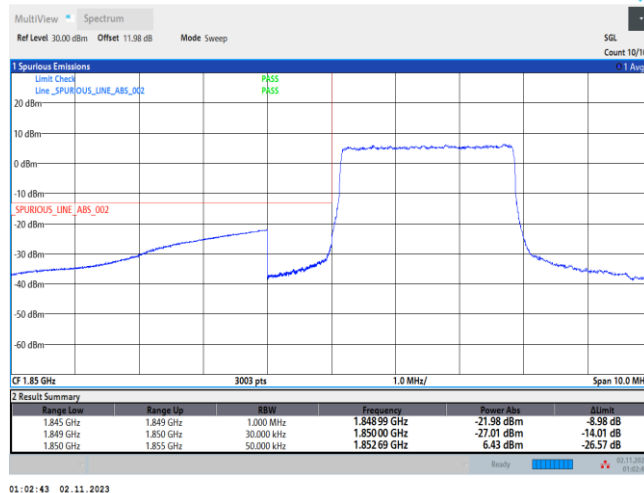


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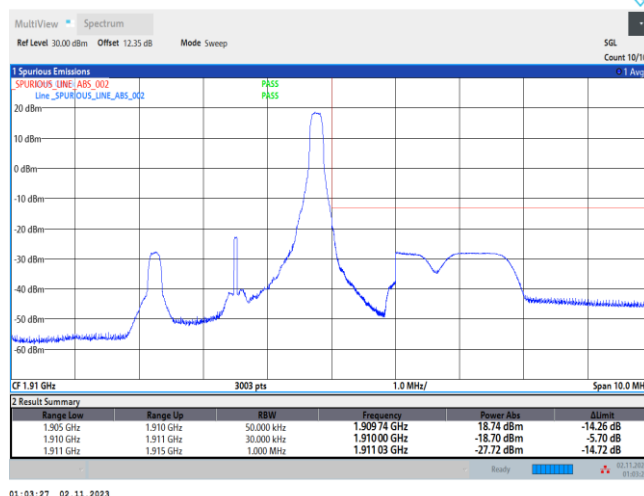
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Band2-3MHz-QPSK-18615-15RB#0



Band2-3MHz-QPSK-19185-1RB#14

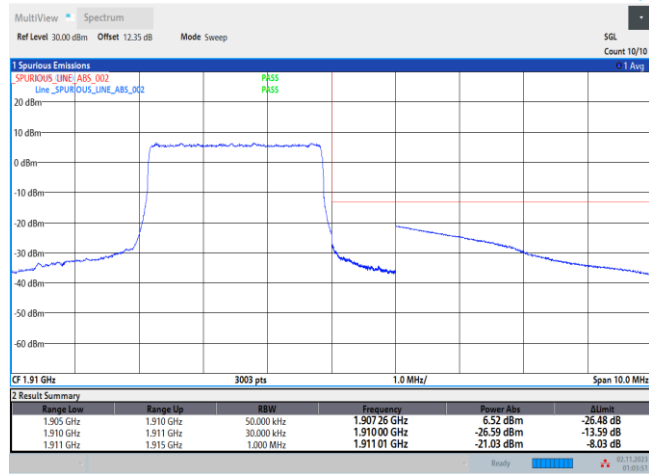


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Band2-3MHz-QPSK-19185-15RB#0



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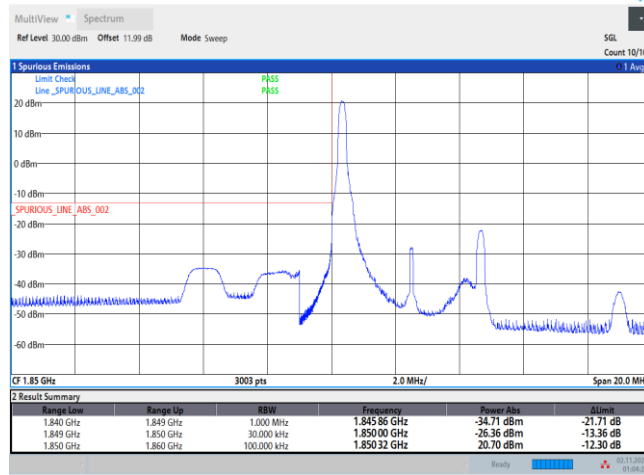
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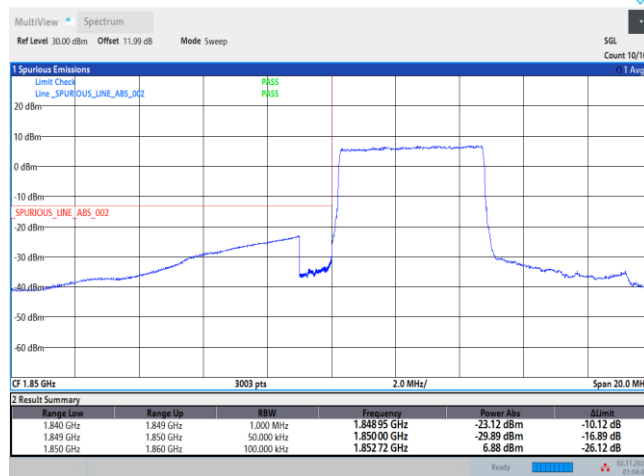
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Band2-5MHz-QPSK-18625-1RB#0



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



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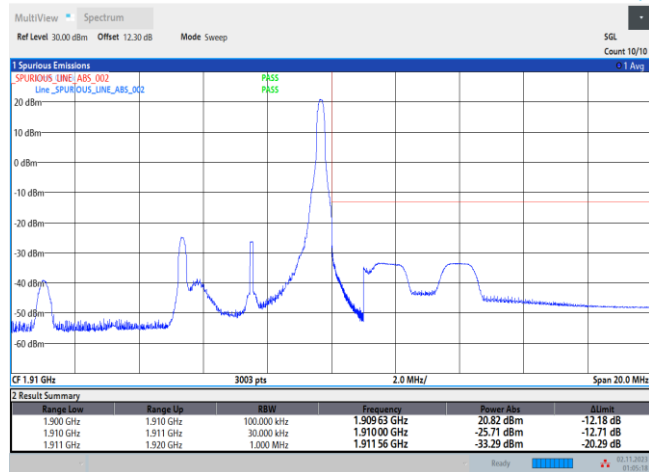
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Band2-5MHz-QPSK-19175-1RB#24



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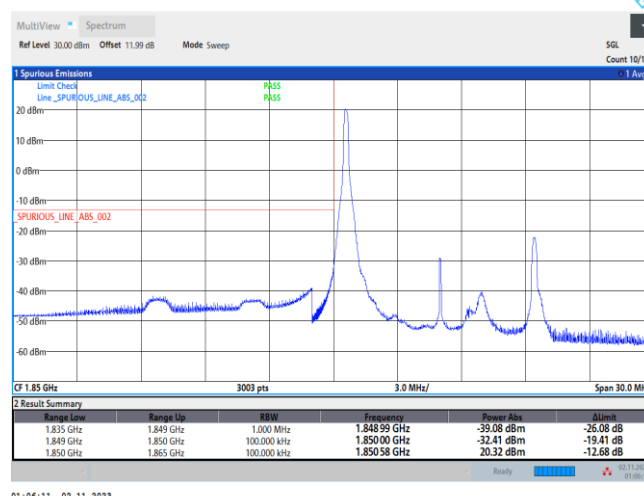
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Band2-10MHz-QPSK-18650-50RB#0



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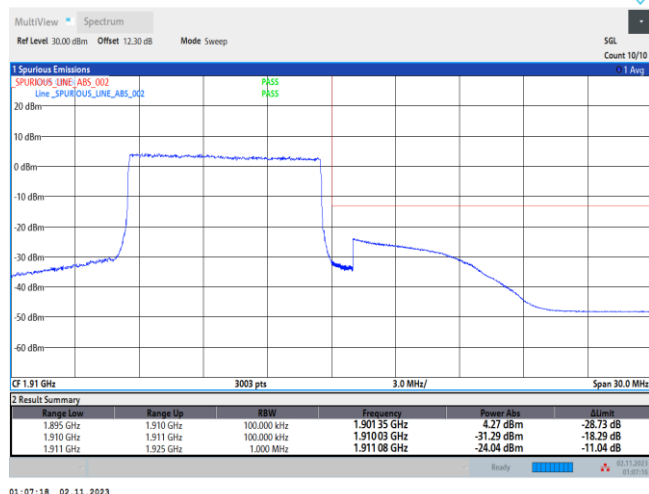
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Band2-10MHz-QPSK-19150-1RB#49



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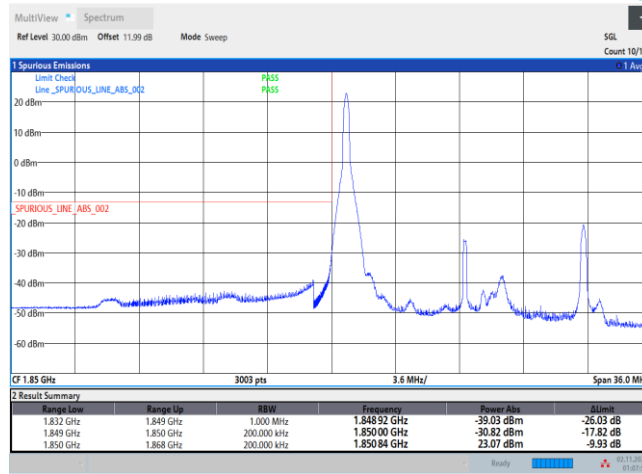
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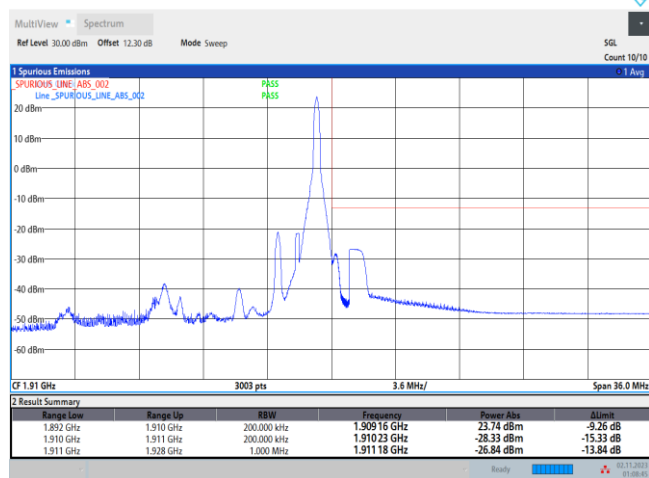
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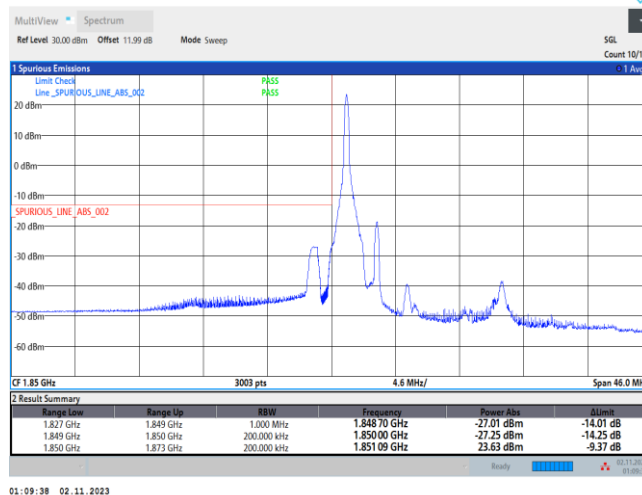
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Band2-20MHz-QPSK-18700-1RB#0

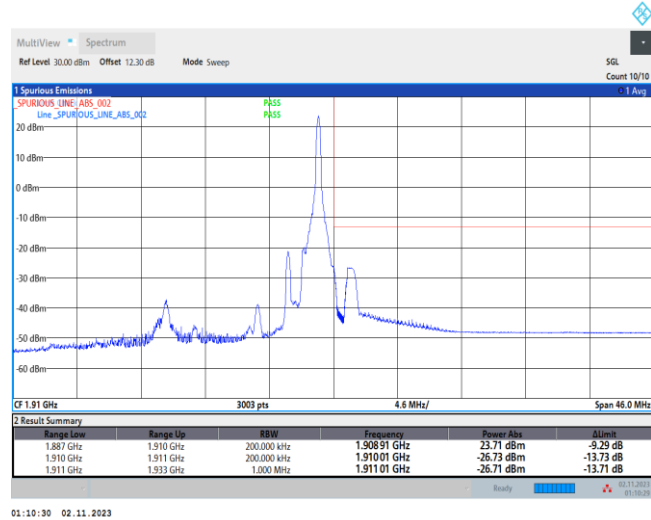


Band2-20MHz-QPSK-18700-100RB#0



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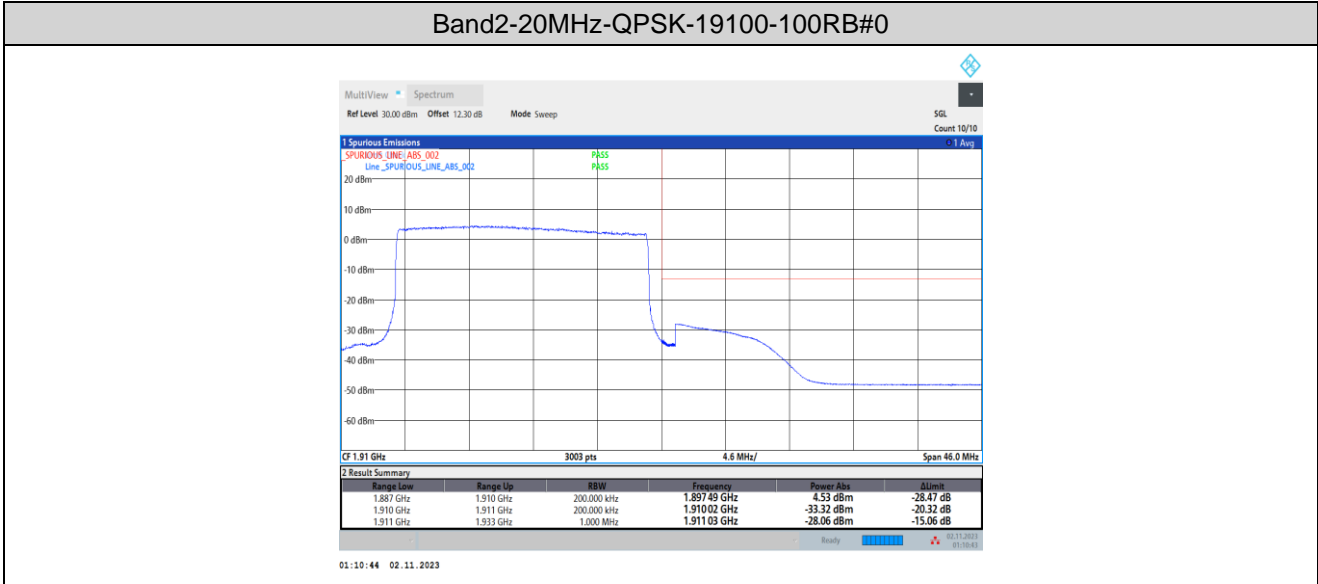
Band2-20MHz-QPSK-19100-1RB#99



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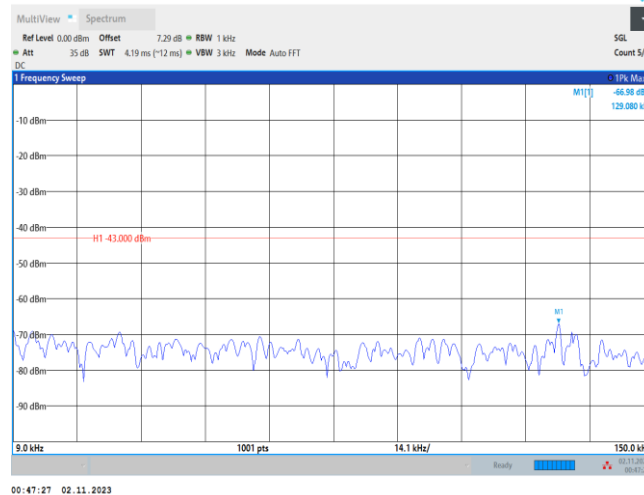
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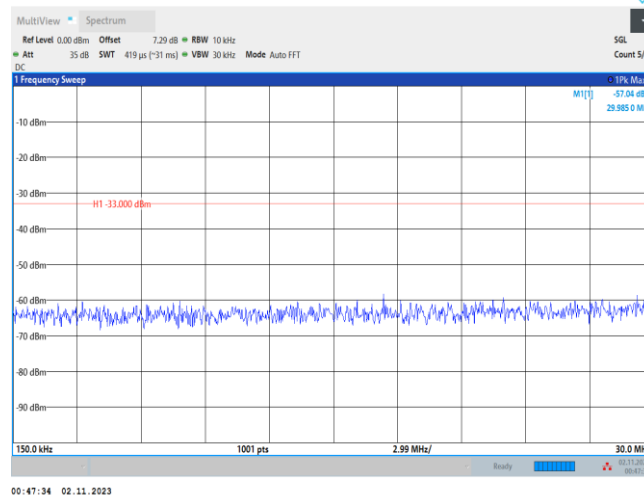
Conducted Spurious Emission

Test Graphs

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

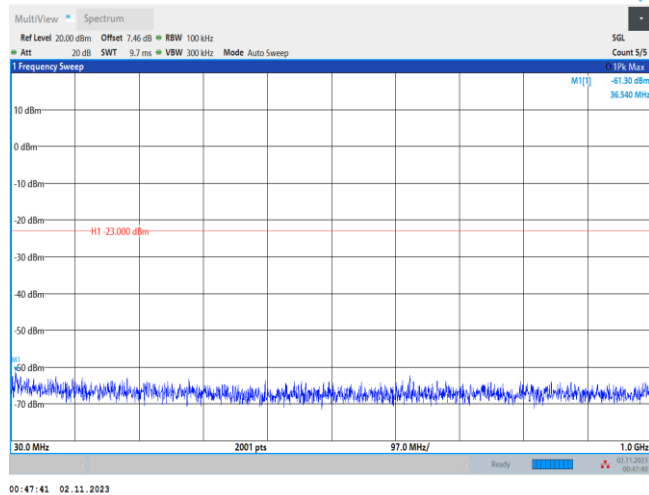


Band2-20MHz-QPSK-18700-1RB#0-Range2:0.15~30MHz

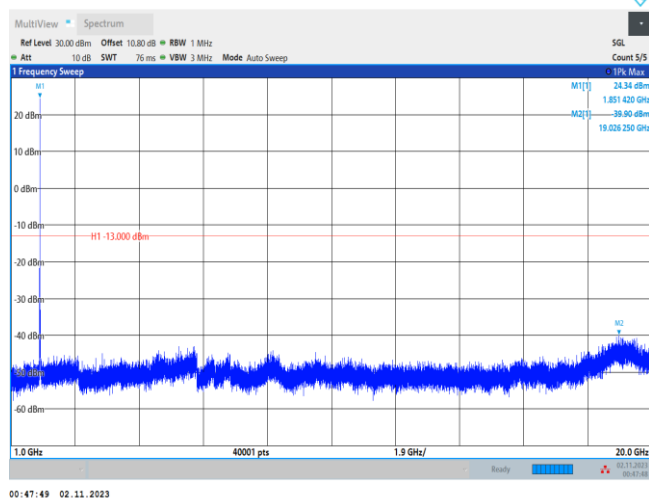


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Band2-20MHz-QPSK-18700-1RB#0-Range3:30~1000MHz

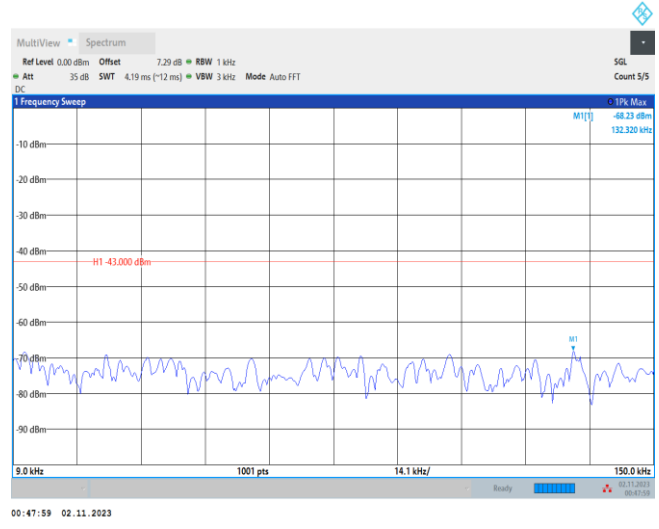


Band2-20MHz-QPSK-18700-1RB#0-Range4:1000~20000MHz



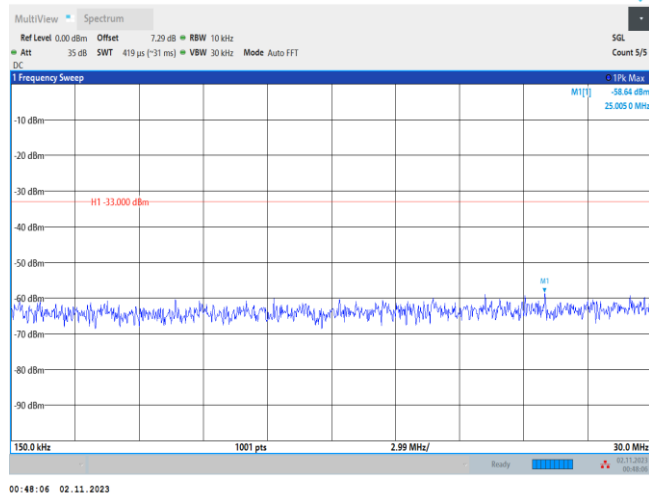
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Band2-20MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz

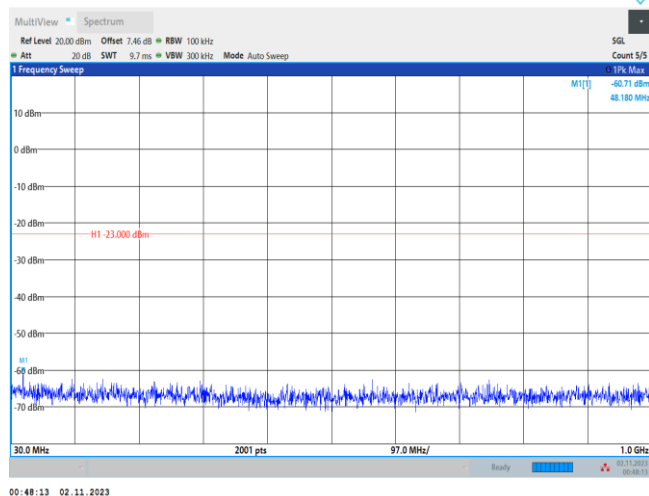


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Band2-20MHz-QPSK-18900-1RB#0-Range2:0.15~30MHz



Band2-20MHz-QPSK-18900-1RB#0-Range3:30~1000MHz



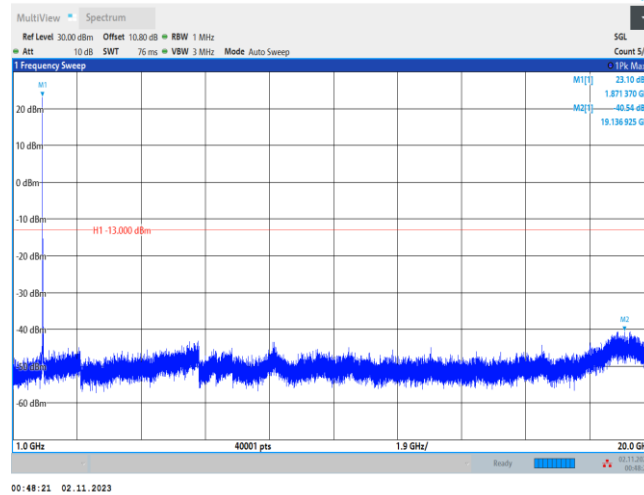
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Band2-20MHz-QPSK-18900-1RB#0-Range4:1000~20000MHz



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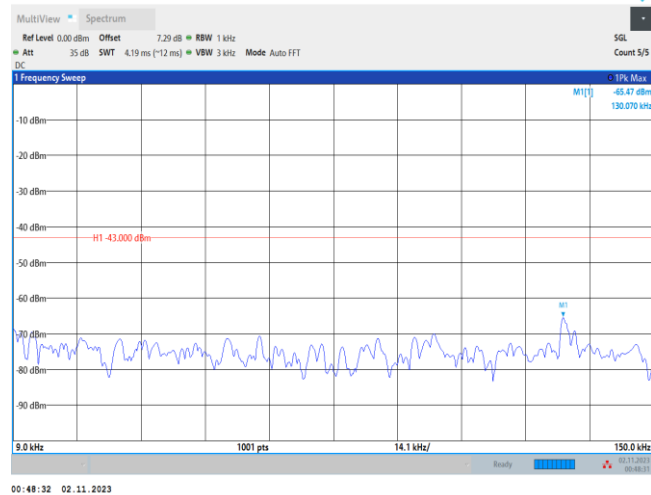
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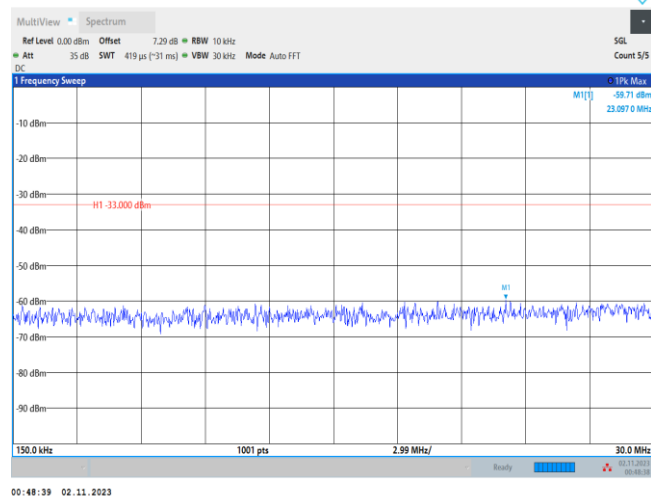
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Band2-20MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz

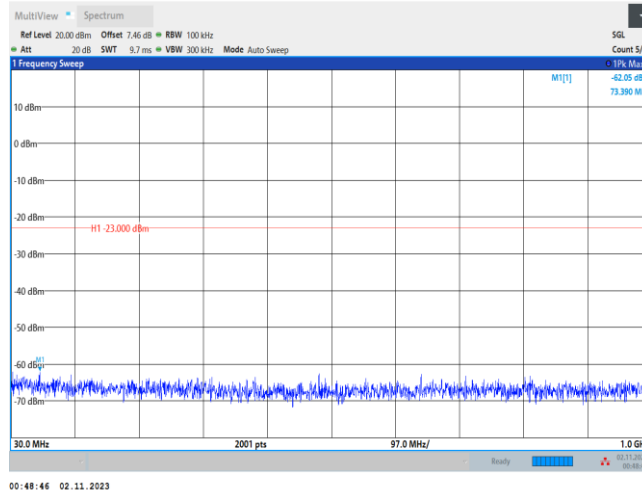


Band2-20MHz-QPSK-19100-1RB#0-Range2:0.15~30MHz



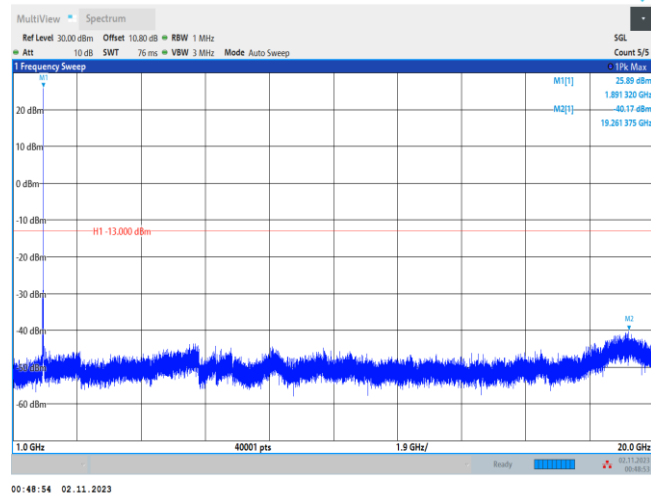
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Band2-20MHz-QPSK-19100-1RB#0-Range3:30~1000MHz



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Band2-20MHz-QPSK-19100-1RB#0-Range4:1000~20000MHz



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Field Strength of Spurious Radiation

Test Band = LTE_2_TM1
 Test Channel = LCH

| Final Data List | | | | | | | | |
|-----------------|-------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 2979.5 | 37.48 | -17.29 | 28.48 | -46.59 | -13.00 | 33.59 | Horizontal |
| 2 | 3702 | 58.78 | -44.52 | 29.31 | -51.69 | -13.00 | 38.69 | Horizontal |
| 3 | 5628.5 | 44.06 | -41.35 | 32.54 | -60.01 | -13.00 | 47.01 | Horizontal |
| 4 | 7404.5 | 42.49 | -38.28 | 36.71 | -54.34 | -13.00 | 41.34 | Horizontal |
| 5 | 11110 | 41.28 | -37.76 | 40.20 | -51.54 | -13.00 | 38.54 | Horizontal |
| 6 | 16398 | 38.16 | -34.83 | 38.79 | -53.14 | -13.00 | 40.14 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|-------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 2930 | 37.69 | -17.34 | 28.22 | -46.69 | -13.00 | 33.69 | Vertical |
| 2 | 3702 | 58.64 | -44.52 | 29.31 | -51.83 | -13.00 | 38.83 | Vertical |
| 3 | 5553.5 | 48.14 | -41.63 | 32.23 | -56.52 | -13.00 | 43.52 | Vertical |
| 4 | 7404.5 | 47.06 | -38.28 | 36.71 | -49.77 | -13.00 | 36.77 | Vertical |
| 5 | 11106.5 | 42.28 | -37.70 | 40.20 | -50.48 | -13.00 | 37.48 | Vertical |
| 6 | 16381 | 38.11 | -34.92 | 38.74 | -53.33 | -13.00 | 40.33 | Vertical |



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Report No.: XEWA2310000073RG01
 Rev.: 01
 Page: 63 of 65

Test Band = LTE_2_TM1
 Test Channel = MCH

| Final Data List | | | | | | | | |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 2969.5 | 37.47 | -17.13 | 28.42 | -46.50 | -13.00 | 33.50 | Horizontal |
| 2 | 3742 | 54.97 | -44.69 | 29.55 | -55.43 | -13.00 | 42.43 | Horizontal |
| 3 | 5631.5 | 44.17 | -41.35 | 32.54 | -59.90 | -13.00 | 46.90 | Horizontal |
| 4 | 7398.5 | 42.31 | -38.29 | 36.69 | -54.55 | -13.00 | 41.55 | Horizontal |
| 5 | 11098.5 | 41.51 | -37.58 | 40.20 | -51.13 | -13.00 | 38.13 | Horizontal |
| 6 | 16348.5 | 38.86 | -35.10 | 38.65 | -52.85 | -13.00 | 39.85 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 2981 | 37.42 | -17.31 | 28.49 | -46.66 | -13.00 | 33.66 | Vertical |
| 2 | 3742 | 56.94 | -44.69 | 29.55 | -53.46 | -13.00 | 40.46 | Vertical |
| 3 | 5613.5 | 44.96 | -41.40 | 32.57 | -59.13 | -13.00 | 46.13 | Vertical |
| 4 | 7484.5 | 46.30 | -38.29 | 36.87 | -50.38 | -13.00 | 37.38 | Vertical |
| 5 | 11034 | 40.73 | -37.19 | 40.13 | -51.59 | -13.00 | 38.59 | Vertical |
| 6 | 16393.5 | 38.33 | -34.86 | 38.78 | -53.01 | -13.00 | 40.01 | Vertical |



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Member of the SGS Group (SGS SA)

Test Band = LTE_2_TM1
Test Channel = HCH

| Final Data List | | | | | | | | |
|-----------------|-------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 2967 | 37.45 | -17.20 | 28.40 | -46.61 | -13.00 | 33.61 | Horizontal |
| 2 | 3782 | 54.97 | -44.85 | 29.73 | -55.41 | -13.00 | 42.41 | Horizontal |
| 3 | 5673.5 | 44.47 | -41.22 | 32.50 | -59.51 | -13.00 | 46.51 | Horizontal |
| 4 | 7418 | 42.80 | -38.28 | 36.74 | -54.00 | -13.00 | 41.00 | Horizontal |
| 5 | 10963.5 | 40.98 | -37.14 | 40.14 | -51.28 | -13.00 | 38.28 | Horizontal |
| 6 | 16398 | 38.78 | -34.83 | 38.79 | -52.52 | -13.00 | 39.52 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|-------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO. | Freq. [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 2983.5 | 37.54 | -17.34 | 28.50 | -46.56 | -13.00 | 33.56 | Vertical |
| 2 | 3782 | 57.21 | -44.85 | 29.73 | -53.17 | -13.00 | 40.17 | Vertical |
| 3 | 5673.5 | 48.00 | -41.22 | 32.50 | -55.98 | -13.00 | 42.98 | Vertical |
| 4 | 7564.5 | 45.71 | -38.63 | 36.52 | -51.66 | -13.00 | 38.66 | Vertical |
| 5 | 11071.5 | 41.04 | -37.42 | 40.17 | -51.47 | -13.00 | 38.47 | Vertical |
| 6 | 16396.5 | 38.39 | -34.84 | 38.79 | -52.92 | -13.00 | 39.92 | 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

| Voltage | | | | | | | | | |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | VL | NT | -6.78 | -0.003606 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | VN | NT | -4.19 | -0.002229 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | VH | NT | -15.03 | -0.007995 | PASS |

| Temperature | | | | | | | | | |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | -30 | -7.75 | -0.004122 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | -20 | -8.08 | -0.004298 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | -10 | -5.21 | -0.002771 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | 0 | -9.74 | -0.005181 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | 10 | -11.06 | -0.005883 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | 20 | -12.26 | -0.006521 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | 30 | -7.38 | -0.003926 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | 40 | -5.89 | -0.003133 | PASS |
| Band2 | 20MHz | QPSK | 18900 | 100RB#0 | NV | 50 | 5.29 | 0.002814 | PASS |

---End of Attachment---



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