

# Appendix B.7

## LTE Band 38



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

ANT2

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|-----------|------------|---------|
| Band38 | 5MHz      | QPSK       | 37775   | 1RB#0            | 25.02       | 23.32     | 33.00      | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 1RB#12           | 25.19       | 23.49     | 33.00      | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 1RB#24           | 24.99       | 23.29     | 33.00      | PASS    |
| Band38 | 5MHz      | QPSK       | 37775   | 25RB#0           | 24.06       | 22.36     | 33.00      | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 1RB#0            | 24.96       | 23.26     | 33.00      | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 1RB#12           | 25.22       | 23.52     | 33.00      | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 1RB#24           | 25.01       | 23.31     | 33.00      | PASS    |
| Band38 | 5MHz      | QPSK       | 38000   | 25RB#0           | 24          | 22.3      | 33.00      | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 1RB#0            | 24.94       | 23.24     | 33.00      | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 1RB#12           | 25.06       | 23.36     | 33.00      | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 1RB#24           | 24.85       | 23.15     | 33.00      | PASS    |
| Band38 | 5MHz      | QPSK       | 38225   | 25RB#0           | 23.91       | 22.21     | 33.00      | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 1RB#0            | 23.91       | 22.21     | 33.00      | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 1RB#12           | 24.11       | 22.41     | 33.00      | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 1RB#24           | 23.94       | 22.24     | 33.00      | PASS    |
| Band38 | 5MHz      | 16QAM      | 37775   | 25RB#0           | 23.06       | 21.36     | 33.00      | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 1RB#0            | 23.92       | 22.22     | 33.00      | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 1RB#12           | 24.08       | 22.38     | 33.00      | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 1RB#24           | 23.94       | 22.24     | 33.00      | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 25RB#0           | 23.02       | 21.32     | 33.00      | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 1RB#0            | 23.93       | 22.23     | 33.00      | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 1RB#12           | 24.01       | 22.31     | 33.00      | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 1RB#24           | 23.87       | 22.17     | 33.00      | PASS    |
| Band38 | 5MHz      | 16QAM      | 38225   | 25RB#0           | 22.93       | 21.23     | 33.00      | PASS    |
| Band38 | 5MHz      | 64QAM      | 37775   | 1RB#0            | 23.06       | 21.36     | 33.00      | PASS    |
| Band38 | 5MHz      | 64QAM      | 37775   | 1RB#12           | 23.16       | 21.46     | 33.00      | PASS    |
| Band38 | 5MHz      | 64QAM      | 37775   | 1RB#24           | 23.14       | 21.44     | 33.00      | PASS    |



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|--------|-------|--------|-------|--------|-------|-------|-------|------|
| Band38 | 5MHz  | 64QAM  | 37775 | 25RB#0 | 22.11 | 20.41 | 33.00 | PASS |
| Band38 | 5MHz  | 64QAM  | 38000 | 1RB#0  | 23.13 | 21.43 | 33.00 | PASS |
| Band38 | 5MHz  | 64QAM  | 38000 | 1RB#12 | 23.22 | 21.52 | 33.00 | PASS |
| Band38 | 5MHz  | 64QAM  | 38000 | 1RB#24 | 23.09 | 21.39 | 33.00 | PASS |
| Band38 | 5MHz  | 64QAM  | 38000 | 25RB#0 | 22.01 | 20.31 | 33.00 | PASS |
| Band38 | 5MHz  | 64QAM  | 38225 | 1RB#0  | 22.98 | 21.28 | 33.00 | PASS |
| Band38 | 5MHz  | 64QAM  | 38225 | 1RB#12 | 23.15 | 21.45 | 33.00 | PASS |
| Band38 | 5MHz  | 64QAM  | 38225 | 1RB#24 | 23.01 | 21.31 | 33.00 | PASS |
| Band38 | 5MHz  | 64QAM  | 38225 | 25RB#0 | 21.89 | 20.19 | 33.00 | PASS |
| Band38 | 5MHz  | 256QAM | 37775 | 1RB#0  | 19.9  | 18.2  | 33.00 | PASS |
| Band38 | 5MHz  | 256QAM | 37775 | 1RB#12 | 19.92 | 18.22 | 33.00 | PASS |
| Band38 | 5MHz  | 256QAM | 37775 | 1RB#24 | 19.99 | 18.29 | 33.00 | PASS |
| Band38 | 5MHz  | 256QAM | 37775 | 25RB#0 | 20.02 | 18.32 | 33.00 | PASS |
| Band38 | 5MHz  | 256QAM | 38000 | 1RB#0  | 19.93 | 18.23 | 33.00 | PASS |
| Band38 | 5MHz  | 256QAM | 38000 | 1RB#12 | 20.15 | 18.45 | 33.00 | PASS |
| Band38 | 5MHz  | 256QAM | 38000 | 1RB#24 | 20.01 | 18.31 | 33.00 | PASS |
| Band38 | 5MHz  | 256QAM | 38000 | 25RB#0 | 19.99 | 18.29 | 33.00 | PASS |
| Band38 | 5MHz  | 256QAM | 38225 | 1RB#0  | 19.85 | 18.15 | 33.00 | PASS |
| Band38 | 5MHz  | 256QAM | 38225 | 1RB#12 | 20.02 | 18.32 | 33.00 | PASS |
| Band38 | 5MHz  | 256QAM | 38225 | 1RB#24 | 19.9  | 18.2  | 33.00 | PASS |
| Band38 | 5MHz  | 256QAM | 38225 | 25RB#0 | 19.89 | 18.19 | 33.00 | PASS |
| Band38 | 10MHz | QPSK   | 37800 | 1RB#0  | 24.95 | 23.25 | 33.00 | PASS |
| Band38 | 10MHz | QPSK   | 37800 | 1RB#24 | 25.03 | 23.33 | 33.00 | PASS |
| Band38 | 10MHz | QPSK   | 37800 | 1RB#49 | 25    | 23.3  | 33.00 | PASS |
| Band38 | 10MHz | QPSK   | 37800 | 50RB#0 | 24.12 | 22.42 | 33.00 | PASS |
| Band38 | 10MHz | QPSK   | 38000 | 1RB#0  | 24.95 | 23.25 | 33.00 | PASS |
| Band38 | 10MHz | QPSK   | 38000 | 1RB#24 | 25.04 | 23.34 | 33.00 | PASS |
| Band38 | 10MHz | QPSK   | 38000 | 1RB#49 | 25.02 | 23.32 | 33.00 | PASS |
| Band38 | 10MHz | QPSK   | 38000 | 50RB#0 | 24.03 | 22.33 | 33.00 | PASS |
| Band38 | 10MHz | QPSK   | 38200 | 1RB#0  | 24.89 | 23.19 | 33.00 | PASS |
| Band38 | 10MHz | QPSK   | 38200 | 1RB#24 | 24.9  | 23.2  | 33.00 | PASS |
| Band38 | 10MHz | QPSK   | 38200 | 1RB#49 | 24.9  | 23.2  | 33.00 | PASS |



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|        |       |        |       |        |       |       |       |      |
|--------|-------|--------|-------|--------|-------|-------|-------|------|
| Band38 | 10MHz | QPSK   | 38200 | 50RB#0 | 24    | 22.3  | 33.00 | PASS |
| Band38 | 10MHz | 16QAM  | 37800 | 1RB#0  | 23.95 | 22.25 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM  | 37800 | 1RB#24 | 24.04 | 22.34 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM  | 37800 | 1RB#49 | 24.03 | 22.33 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM  | 37800 | 50RB#0 | 23.1  | 21.4  | 33.00 | PASS |
| Band38 | 10MHz | 16QAM  | 38000 | 1RB#0  | 23.97 | 22.27 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM  | 38000 | 1RB#24 | 24.01 | 22.31 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM  | 38000 | 1RB#49 | 23.92 | 22.22 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM  | 38000 | 50RB#0 | 23.05 | 21.35 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM  | 38200 | 1RB#0  | 23.92 | 22.22 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM  | 38200 | 1RB#24 | 23.92 | 22.22 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM  | 38200 | 1RB#49 | 23.78 | 22.08 | 33.00 | PASS |
| Band38 | 10MHz | 16QAM  | 38200 | 50RB#0 | 22.99 | 21.29 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM  | 37800 | 1RB#0  | 23.14 | 21.44 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM  | 37800 | 1RB#24 | 23.05 | 21.35 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM  | 37800 | 1RB#49 | 23.11 | 21.41 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM  | 37800 | 50RB#0 | 22.11 | 20.41 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM  | 38000 | 1RB#0  | 23.09 | 21.39 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM  | 38000 | 1RB#24 | 23.13 | 21.43 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM  | 38000 | 1RB#49 | 23.16 | 21.46 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM  | 38000 | 50RB#0 | 22.04 | 20.34 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM  | 38200 | 1RB#0  | 22.93 | 21.23 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM  | 38200 | 1RB#24 | 23.03 | 21.33 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM  | 38200 | 1RB#49 | 22.93 | 21.23 | 33.00 | PASS |
| Band38 | 10MHz | 64QAM  | 38200 | 50RB#0 | 22.03 | 20.33 | 33.00 | PASS |
| Band38 | 10MHz | 256QAM | 37800 | 1RB#0  | 19.85 | 18.15 | 33.00 | PASS |
| Band38 | 10MHz | 256QAM | 37800 | 1RB#24 | 19.96 | 18.26 | 33.00 | PASS |
| Band38 | 10MHz | 256QAM | 37800 | 1RB#49 | 20.02 | 18.32 | 33.00 | PASS |
| Band38 | 10MHz | 256QAM | 37800 | 50RB#0 | 20.09 | 18.39 | 33.00 | PASS |
| Band38 | 10MHz | 256QAM | 38000 | 1RB#0  | 19.91 | 18.21 | 33.00 | PASS |
| Band38 | 10MHz | 256QAM | 38000 | 1RB#24 | 20.11 | 18.41 | 33.00 | PASS |
| Band38 | 10MHz | 256QAM | 38000 | 1RB#49 | 20.01 | 18.31 | 33.00 | PASS |



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|--------|-------|--------|-------|--------|-------|-------|-------|------|
| Band38 | 10MHz | 256QAM | 38000 | 50RB#0 | 20.04 | 18.34 | 33.00 | PASS |
| Band38 | 10MHz | 256QAM | 38200 | 1RB#0  | 19.91 | 18.21 | 33.00 | PASS |
| Band38 | 10MHz | 256QAM | 38200 | 1RB#24 | 20.01 | 18.31 | 33.00 | PASS |
| Band38 | 10MHz | 256QAM | 38200 | 1RB#49 | 19.91 | 18.21 | 33.00 | PASS |
| Band38 | 10MHz | 256QAM | 38200 | 50RB#0 | 20    | 18.3  | 33.00 | PASS |
| Band38 | 15MHz | QPSK   | 37825 | 1RB#0  | 24.87 | 23.17 | 33.00 | PASS |
| Band38 | 15MHz | QPSK   | 37825 | 1RB#38 | 24.81 | 23.11 | 33.00 | PASS |
| Band38 | 15MHz | QPSK   | 37825 | 1RB#74 | 24.83 | 23.13 | 33.00 | PASS |
| Band38 | 15MHz | QPSK   | 37825 | 75RB#0 | 23.93 | 22.23 | 33.00 | PASS |
| Band38 | 15MHz | QPSK   | 38000 | 1RB#0  | 24.82 | 23.12 | 33.00 | PASS |
| Band38 | 15MHz | QPSK   | 38000 | 1RB#38 | 24.85 | 23.15 | 33.00 | PASS |
| Band38 | 15MHz | QPSK   | 38000 | 1RB#74 | 24.92 | 23.22 | 33.00 | PASS |
| Band38 | 15MHz | QPSK   | 38000 | 75RB#0 | 23.85 | 22.15 | 33.00 | PASS |
| Band38 | 15MHz | QPSK   | 38175 | 1RB#0  | 14.83 | 13.13 | 33.00 | PASS |
| Band38 | 15MHz | QPSK   | 38175 | 1RB#38 | 24.9  | 23.2  | 33.00 | PASS |
| Band38 | 15MHz | QPSK   | 38175 | 1RB#74 | 24.68 | 22.98 | 33.00 | PASS |
| Band38 | 15MHz | QPSK   | 38175 | 75RB#0 | 23.87 | 22.17 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM  | 37825 | 1RB#0  | 23.72 | 22.02 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM  | 37825 | 1RB#38 | 23.87 | 22.17 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM  | 37825 | 1RB#74 | 23.79 | 22.09 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM  | 37825 | 75RB#0 | 22.94 | 21.24 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM  | 38000 | 1RB#0  | 23.96 | 22.26 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM  | 38000 | 1RB#38 | 23.87 | 22.17 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM  | 38000 | 1RB#74 | 23.63 | 21.93 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM  | 38000 | 75RB#0 | 22.86 | 21.16 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM  | 38175 | 1RB#0  | 23.72 | 22.02 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM  | 38175 | 1RB#38 | 23.72 | 22.02 | 33.00 | PASS |
| Band38 | 15MHz | 16QAM  | 38175 | 1RB#74 | 23.7  | 22    | 33.00 | PASS |
| Band38 | 15MHz | 16QAM  | 38175 | 75RB#0 | 22.9  | 21.2  | 33.00 | PASS |
| Band38 | 15MHz | 64QAM  | 37825 | 1RB#0  | 22.92 | 21.22 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM  | 37825 | 1RB#38 | 22.83 | 21.13 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM  | 37825 | 1RB#74 | 22.83 | 21.13 | 33.00 | PASS |



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|        |       |        |       |         |       |       |       |      |
|--------|-------|--------|-------|---------|-------|-------|-------|------|
| Band38 | 15MHz | 64QAM  | 37825 | 75RB#0  | 21.9  | 20.2  | 33.00 | PASS |
| Band38 | 15MHz | 64QAM  | 38000 | 1RB#0   | 22.88 | 21.18 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM  | 38000 | 1RB#38  | 22.97 | 21.27 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM  | 38000 | 1RB#74  | 22.81 | 21.11 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM  | 38000 | 75RB#0  | 21.87 | 20.17 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM  | 38175 | 1RB#0   | 22.73 | 21.03 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM  | 38175 | 1RB#38  | 22.92 | 21.22 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM  | 38175 | 1RB#74  | 22.69 | 20.99 | 33.00 | PASS |
| Band38 | 15MHz | 64QAM  | 38175 | 75RB#0  | 21.93 | 20.23 | 33.00 | PASS |
| Band38 | 15MHz | 256QAM | 37825 | 1RB#0   | 19.73 | 18.03 | 33.00 | PASS |
| Band38 | 15MHz | 256QAM | 37825 | 1RB#38  | 19.87 | 18.17 | 33.00 | PASS |
| Band38 | 15MHz | 256QAM | 37825 | 1RB#74  | 19.78 | 18.08 | 33.00 | PASS |
| Band38 | 15MHz | 256QAM | 37825 | 75RB#0  | 19.94 | 18.24 | 33.00 | PASS |
| Band38 | 15MHz | 256QAM | 38000 | 1RB#0   | 19.77 | 18.07 | 33.00 | PASS |
| Band38 | 15MHz | 256QAM | 38000 | 1RB#38  | 19.81 | 18.11 | 33.00 | PASS |
| Band38 | 15MHz | 256QAM | 38000 | 1RB#74  | 19.86 | 18.16 | 33.00 | PASS |
| Band38 | 15MHz | 256QAM | 38000 | 75RB#0  | 19.88 | 18.18 | 33.00 | PASS |
| Band38 | 15MHz | 256QAM | 38175 | 1RB#0   | 19.6  | 17.9  | 33.00 | PASS |
| Band38 | 15MHz | 256QAM | 38175 | 1RB#38  | 19.77 | 18.07 | 33.00 | PASS |
| Band38 | 15MHz | 256QAM | 38175 | 1RB#74  | 19.84 | 18.14 | 33.00 | PASS |
| Band38 | 15MHz | 256QAM | 38175 | 75RB#0  | 19.89 | 18.19 | 33.00 | PASS |
| Band38 | 20MHz | QPSK   | 37850 | 1RB#0   | 24.78 | 23.08 | 33.00 | PASS |
| Band38 | 20MHz | QPSK   | 37850 | 1RB#49  | 24.87 | 23.17 | 33.00 | PASS |
| Band38 | 20MHz | QPSK   | 37850 | 1RB#99  | 24.88 | 23.18 | 33.00 | PASS |
| Band38 | 20MHz | QPSK   | 37850 | 100RB#0 | 23.95 | 22.25 | 33.00 | PASS |
| Band38 | 20MHz | QPSK   | 38000 | 1RB#0   | 24.73 | 23.03 | 33.00 | PASS |
| Band38 | 20MHz | QPSK   | 38000 | 1RB#49  | 24.84 | 23.14 | 33.00 | PASS |
| Band38 | 20MHz | QPSK   | 38000 | 1RB#99  | 24.71 | 23.01 | 33.00 | PASS |
| Band38 | 20MHz | QPSK   | 38000 | 100RB#0 | 23.89 | 22.19 | 33.00 | PASS |
| Band38 | 20MHz | QPSK   | 38150 | 1RB#0   | 24.68 | 22.98 | 33.00 | PASS |
| Band38 | 20MHz | QPSK   | 38150 | 1RB#49  | 24.76 | 23.06 | 33.00 | PASS |
| Band38 | 20MHz | QPSK   | 38150 | 1RB#99  | 24.77 | 23.07 | 33.00 | PASS |



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|        |       |        |       |         |       |       |       |      |
|--------|-------|--------|-------|---------|-------|-------|-------|------|
| Band38 | 20MHz | QPSK   | 38150 | 100RB#0 | 23.85 | 22.15 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM  | 37850 | 1RB#0   | 23.82 | 22.12 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM  | 37850 | 1RB#49  | 24.35 | 22.65 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM  | 37850 | 1RB#99  | 23.63 | 21.93 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM  | 37850 | 100RB#0 | 22.92 | 21.22 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM  | 38000 | 1RB#0   | 23.92 | 22.22 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM  | 38000 | 1RB#49  | 23.96 | 22.26 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM  | 38000 | 1RB#99  | 23.69 | 21.99 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM  | 38000 | 100RB#0 | 22.86 | 21.16 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM  | 38150 | 1RB#0   | 23.72 | 22.02 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM  | 38150 | 1RB#49  | 23.87 | 22.17 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM  | 38150 | 1RB#99  | 23.59 | 21.89 | 33.00 | PASS |
| Band38 | 20MHz | 16QAM  | 38150 | 100RB#0 | 22.87 | 21.17 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM  | 37850 | 1RB#0   | 22.81 | 21.11 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM  | 37850 | 1RB#49  | 22.89 | 21.19 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM  | 37850 | 1RB#99  | 22.83 | 21.13 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM  | 37850 | 100RB#0 | 21.94 | 20.24 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM  | 38000 | 1RB#0   | 22.89 | 21.19 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM  | 38000 | 1RB#49  | 23.04 | 21.34 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM  | 38000 | 1RB#99  | 22.81 | 21.11 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM  | 38000 | 100RB#0 | 21.82 | 20.12 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM  | 38150 | 1RB#0   | 22.89 | 21.19 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM  | 38150 | 1RB#49  | 22.83 | 21.13 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM  | 38150 | 1RB#99  | 22.75 | 21.05 | 33.00 | PASS |
| Band38 | 20MHz | 64QAM  | 38150 | 100RB#0 | 21.83 | 20.13 | 33.00 | PASS |
| Band38 | 20MHz | 256QAM | 37850 | 1RB#0   | 19.87 | 18.17 | 33.00 | PASS |
| Band38 | 20MHz | 256QAM | 37850 | 1RB#49  | 19.96 | 18.26 | 33.00 | PASS |
| Band38 | 20MHz | 256QAM | 37850 | 1RB#99  | 19.78 | 18.08 | 33.00 | PASS |
| Band38 | 20MHz | 256QAM | 37850 | 100RB#0 | 19.99 | 18.29 | 33.00 | PASS |
| Band38 | 20MHz | 256QAM | 38000 | 1RB#0   | 19.77 | 18.07 | 33.00 | PASS |
| Band38 | 20MHz | 256QAM | 38000 | 1RB#49  | 19.91 | 18.21 | 33.00 | PASS |
| Band38 | 20MHz | 256QAM | 38000 | 1RB#99  | 19.83 | 18.13 | 33.00 | PASS |



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Report No.: SEWM2309000386RG01

Rev.: 01

Page: 8 of 44

|        |       |        |       |         |       |       |       |      |
|--------|-------|--------|-------|---------|-------|-------|-------|------|
| Band38 | 20MHz | 256QAM | 38000 | 100RB#0 | 19.89 | 18.19 | 33.00 | PASS |
| Band38 | 20MHz | 256QAM | 38150 | 1RB#0   | 19.73 | 18.03 | 33.00 | PASS |
| Band38 | 20MHz | 256QAM | 38150 | 1RB#49  | 19.94 | 18.24 | 33.00 | PASS |
| Band38 | 20MHz | 256QAM | 38150 | 1RB#99  | 19.76 | 18.06 | 33.00 | PASS |
| Band38 | 20MHz | 256QAM | 38150 | 100RB#0 | 19.81 | 18.11 | 33.00 | PASS |



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## Peak-to-Average Ratio(CCDF)

### Test Result

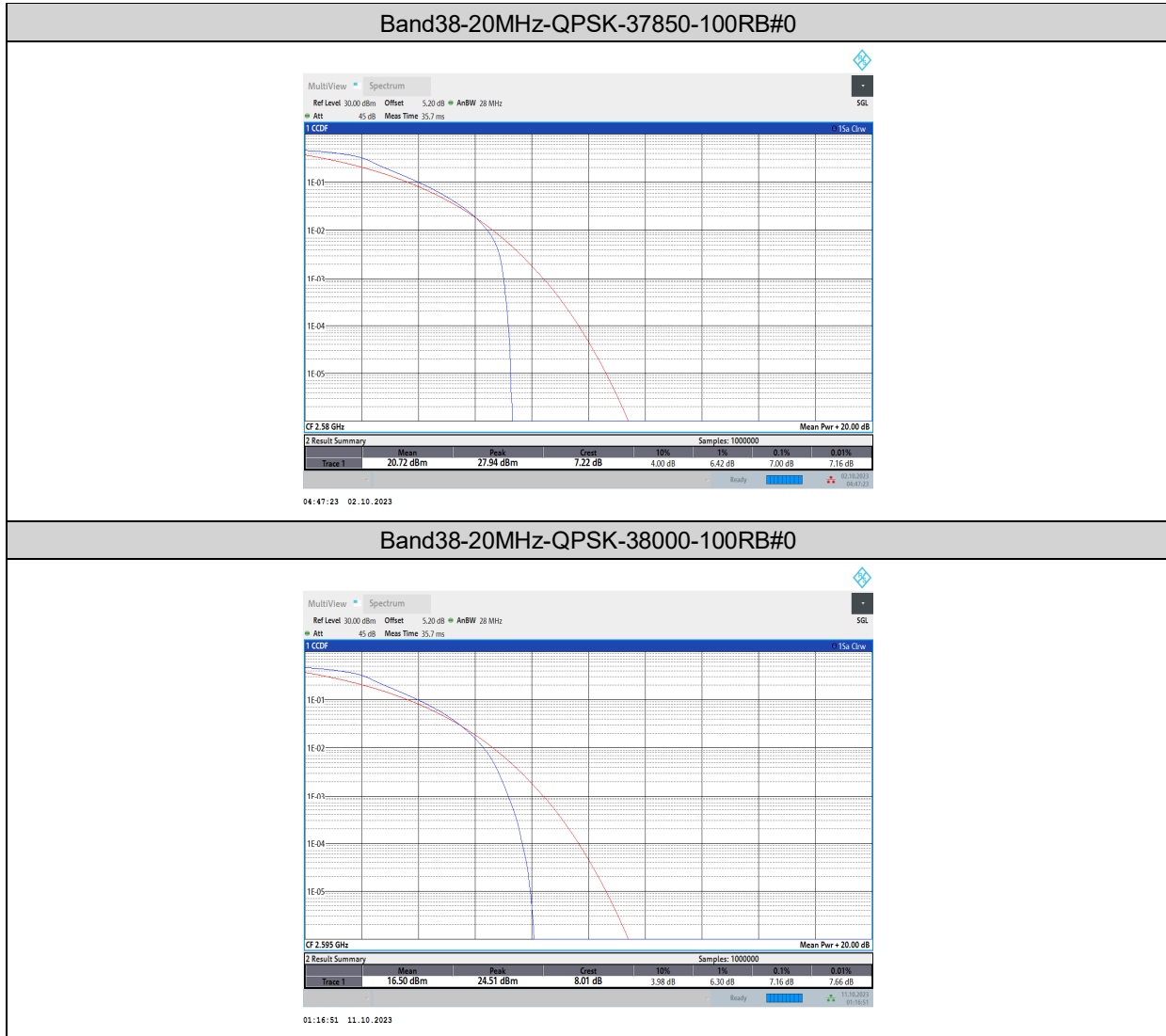
| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band38 | 20MHz     | QPSK       | 37850   | 100RB#0          | 7.00       | 13        | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0          | 7.16       | 13        | PASS    |
| Band38 | 20MHz     | QPSK       | 38150   | 100RB#0          | 7.12       | 13        | PASS    |
| Band38 | 20MHz     | 16QAM      | 37850   | 100RB#0          | 7.84       | 13        | PASS    |
| Band38 | 20MHz     | 16QAM      | 38000   | 100RB#0          | 7.86       | 13        | PASS    |
| Band38 | 20MHz     | 16QAM      | 38150   | 100RB#0          | 7.76       | 13        | PASS    |
| Band38 | 20MHz     | 64QAM      | 37850   | 100RB#0          | 8.60       | 13        | PASS    |
| Band38 | 20MHz     | 64QAM      | 38000   | 100RB#0          | 8.52       | 13        | PASS    |
| Band38 | 20MHz     | 64QAM      | 38150   | 100RB#0          | 8.40       | 13        | PASS    |
| Band38 | 20MHz     | 256QAM     | 37850   | 100RB#0          | 8.50       | 13        | PASS    |
| Band38 | 20MHz     | 256QAM     | 38000   | 100RB#0          | 8.68       | 13        | PASS    |
| Band38 | 20MHz     | 256QAM     | 38150   | 100RB#0          | 8.56       | 13        | PASS    |



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Test Graphs

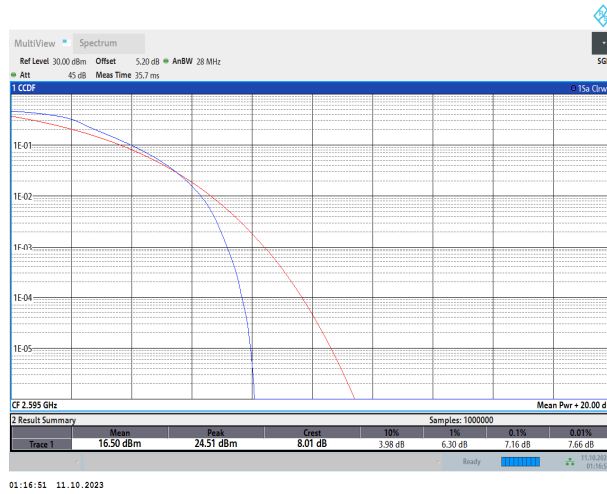


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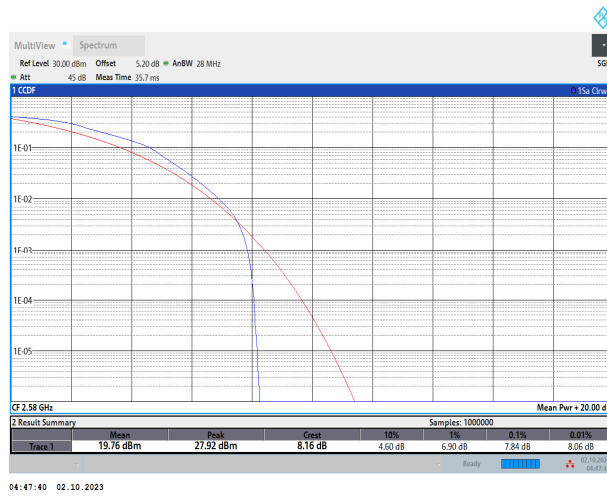
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Band38-20MHz-QPSK-38150-100RB#0



Band38-20MHz-16QAM-37850-100RB#0

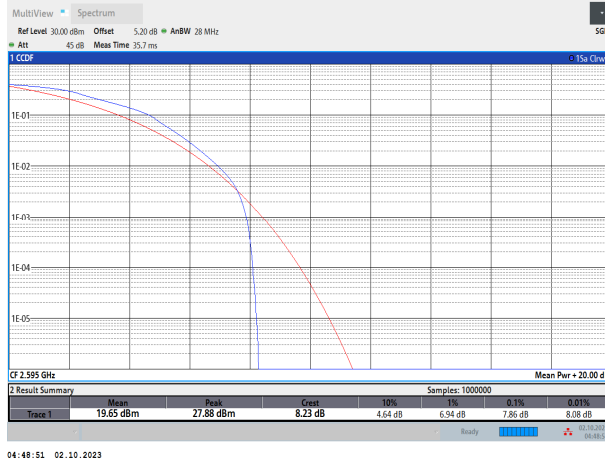


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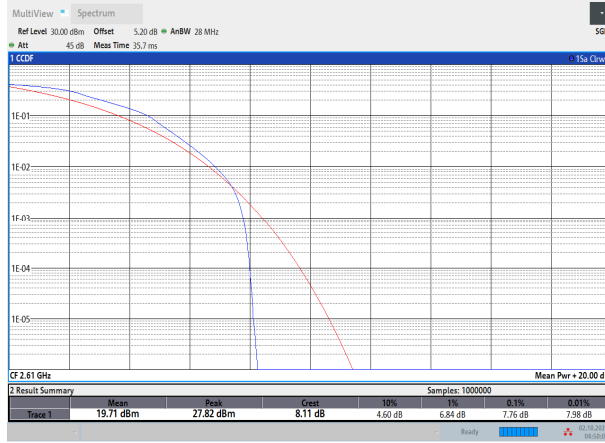
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Band38-20MHz-16QAM-38000-100RB#0



04:49:51 02.10.2023

Band38-20MHz-16QAM-38150-100RB#0



04:50:02 02.10.2023

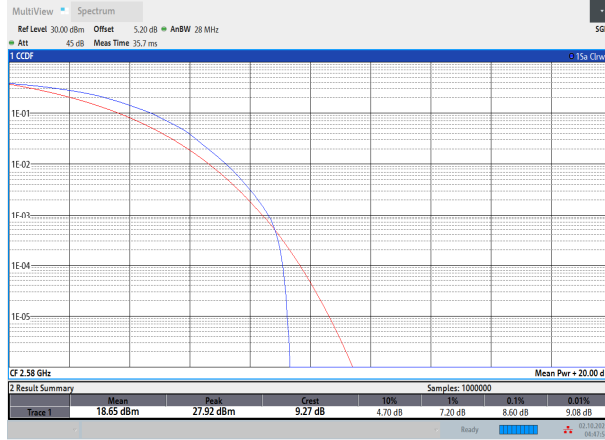


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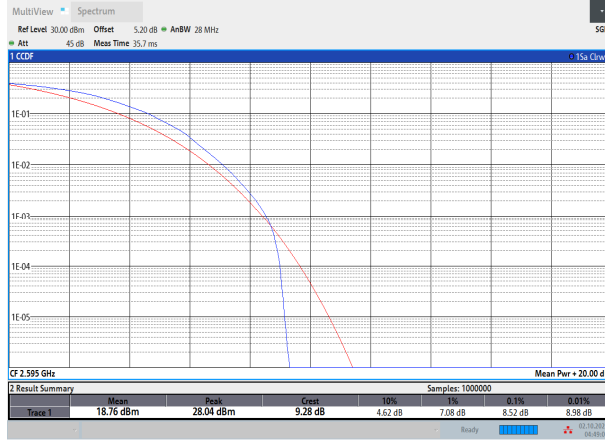
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Band38-20MHz-64QAM-37850-100RB#0



04:47:57 02.10.2023

Band38-20MHz-64QAM-38000-100RB#0



04:49:08 02.10.2023

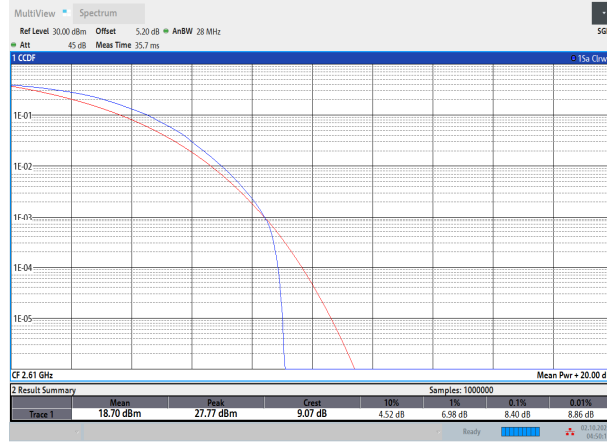


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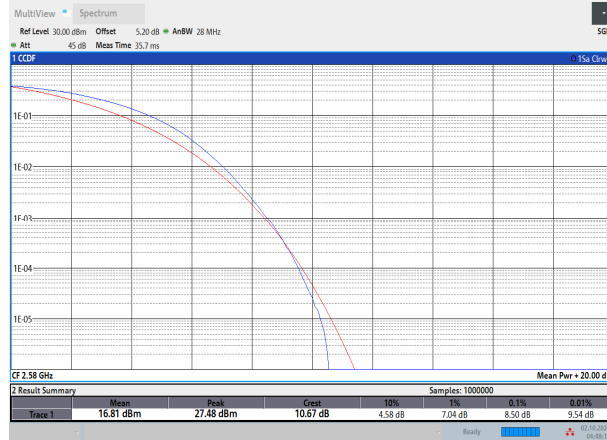
|  |           |                     |  |
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Band38-20MHz-64QAM-38150-100RB#0



04:50:18 02.10.2023

Band38-20MHz-256QAM-37850-100RB#0



04:48:13 02.10.2023

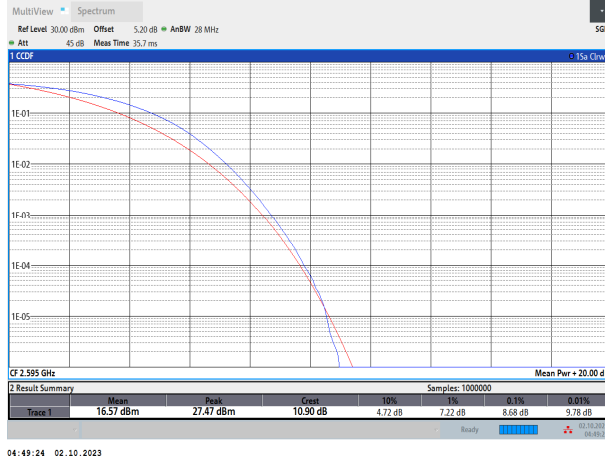


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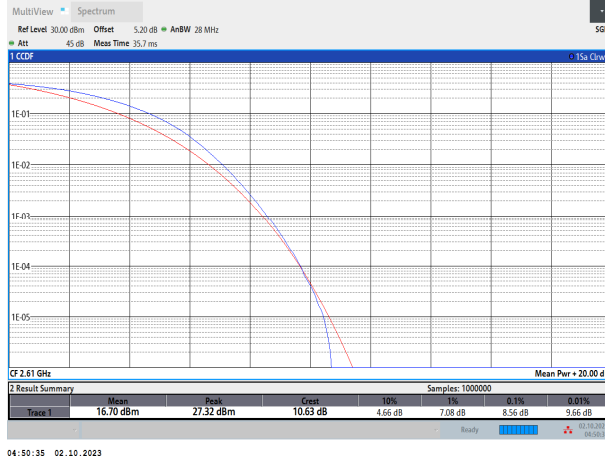
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Band38-20MHz-256QAM-38000-100RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band38 | 5MHz      | QPSK       | 38000   | 25RB#0           | 4.473                    | 5.03                 | PASS    |
| Band38 | 5MHz      | 16QAM      | 38000   | 25RB#0           | 4.48                     | 5.09                 | PASS    |
| Band38 | 5MHz      | 64QAM      | 38000   | 25RB#0           | 4.47                     | 5.02                 | PASS    |
| Band38 | 5MHz      | 256QAM     | 38000   | 25RB#0           | 4.484                    | 5.02                 | PASS    |
| Band38 | 10MHz     | QPSK       | 38000   | 50RB#0           | 8.949                    | 9.86                 | PASS    |
| Band38 | 10MHz     | 16QAM      | 38000   | 50RB#0           | 8.937                    | 9.82                 | PASS    |
| Band38 | 10MHz     | 64QAM      | 38000   | 50RB#0           | 8.945                    | 9.88                 | PASS    |
| Band38 | 10MHz     | 256QAM     | 38000   | 50RB#0           | 8.931                    | 9.74                 | PASS    |
| Band38 | 15MHz     | QPSK       | 38000   | 75RB#0           | 13.482                   | 14.94                | PASS    |
| Band38 | 15MHz     | 16QAM      | 38000   | 75RB#0           | 13.48                    | 14.82                | PASS    |
| Band38 | 15MHz     | 64QAM      | 38000   | 75RB#0           | 13.481                   | 15.00                | PASS    |
| Band38 | 15MHz     | 256QAM     | 38000   | 75RB#0           | 13.458                   | 15.00                | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0          | 17.902                   | 19.56                | PASS    |
| Band38 | 20MHz     | 16QAM      | 38000   | 100RB#0          | 17.907                   | 19.56                | PASS    |
| Band38 | 20MHz     | 64QAM      | 38000   | 100RB#0          | 17.916                   | 19.72                | PASS    |
| Band38 | 20MHz     | 256QAM     | 38000   | 100RB#0          | 17.868                   | 19.76                | PASS    |



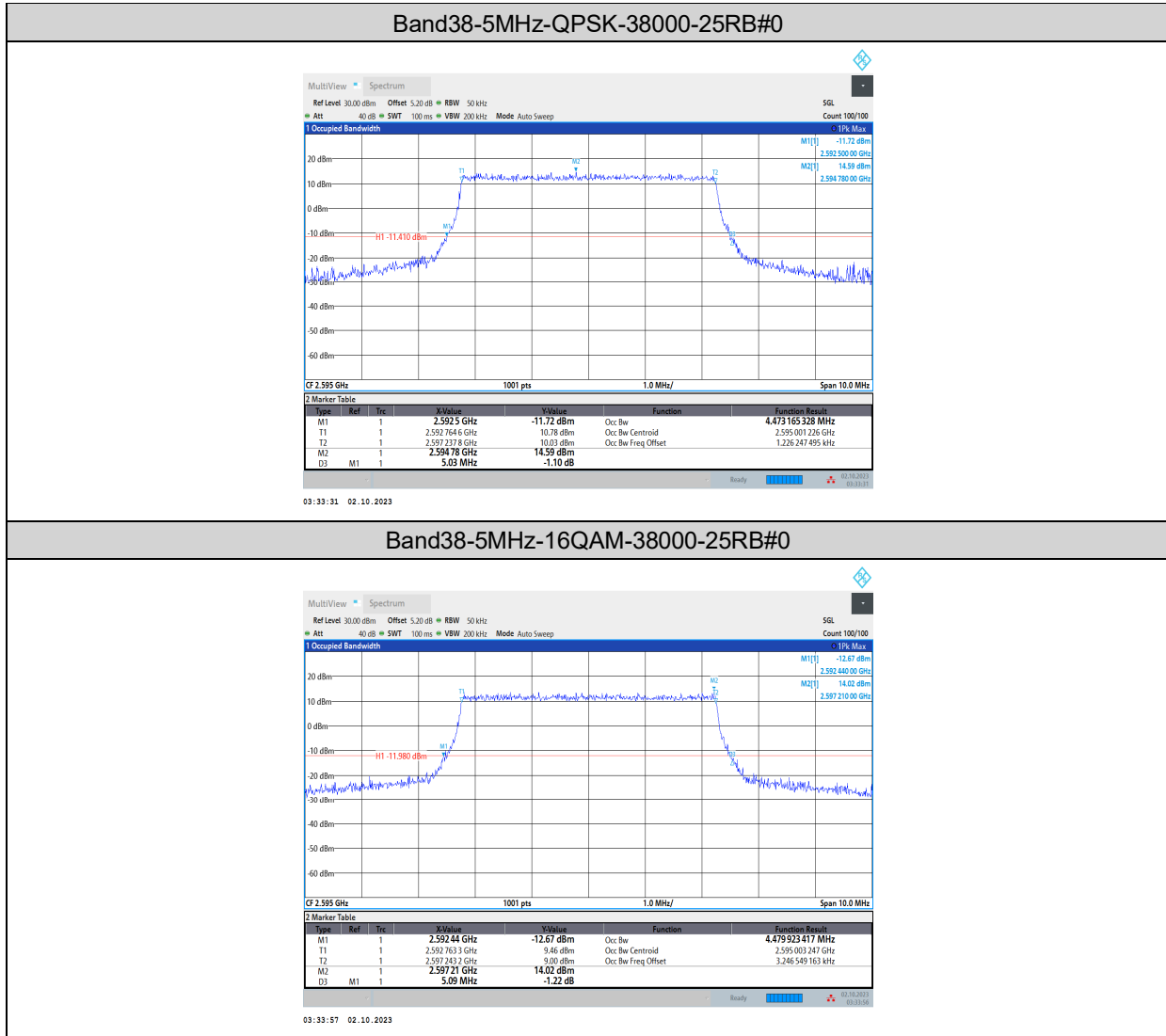
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Test Graphs

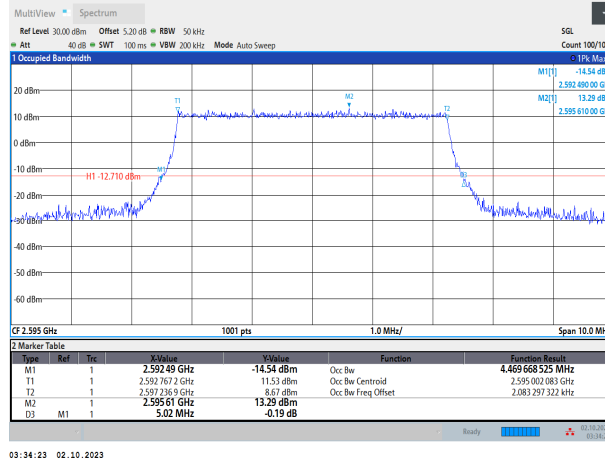


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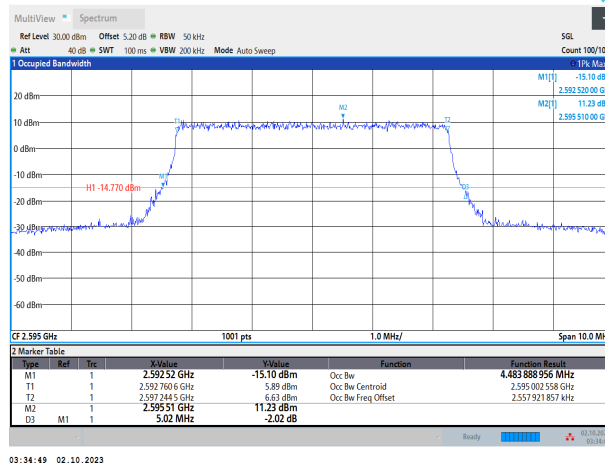
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Band38-5MHz-64QAM-38000-25RB#0



Band38-5MHz-256QAM-38000-25RB#0



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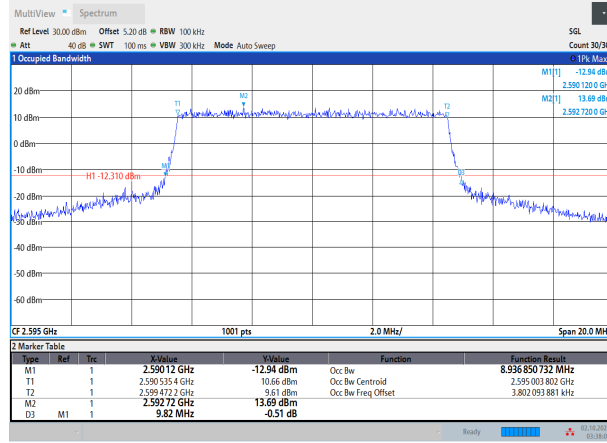
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Band38-10MHz-QPSK-38000-50RB#0



Band38-10MHz-16QAM-38000-50RB#0

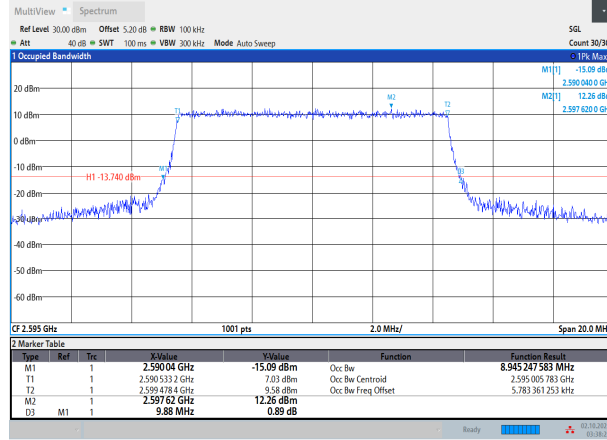


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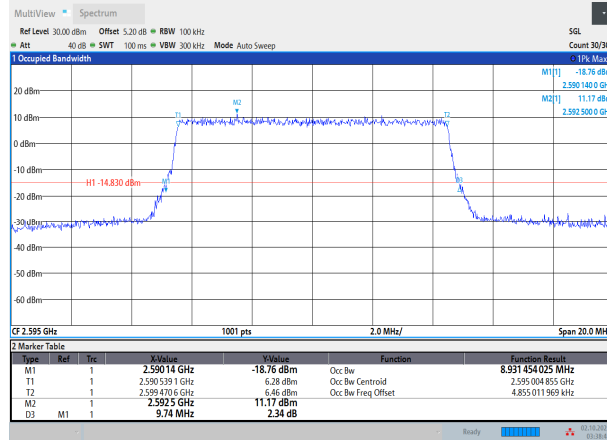
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Band38-10MHz-64QAM-38000-50RB#0



03:38:29 02.10.2023

Band38-10MHz-256QAM-38000-50RB#0



03:38:48 02.10.2023

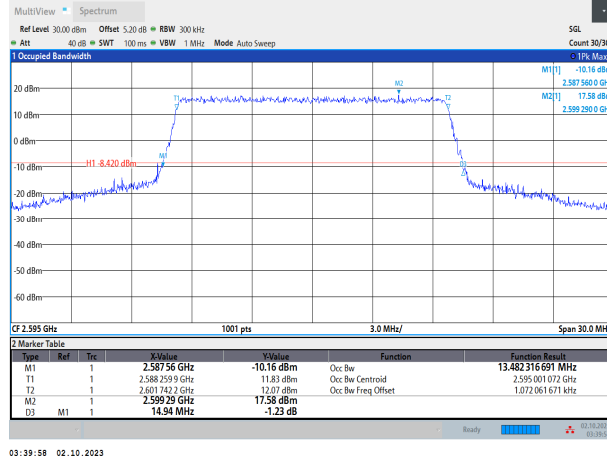


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Band38-15MHz-QPSK-38000-75RB#0



Band38-15MHz-16QAM-38000-75RB#0

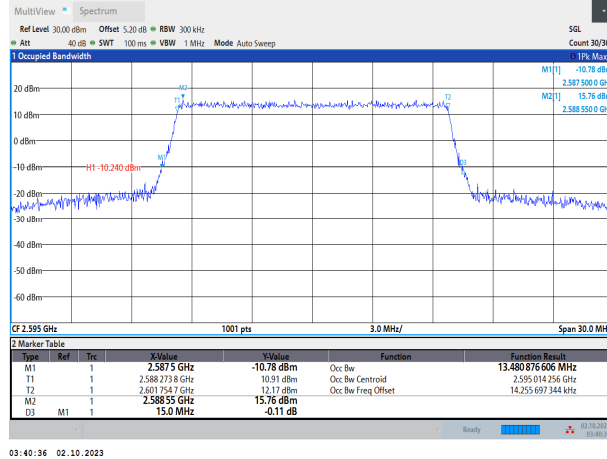


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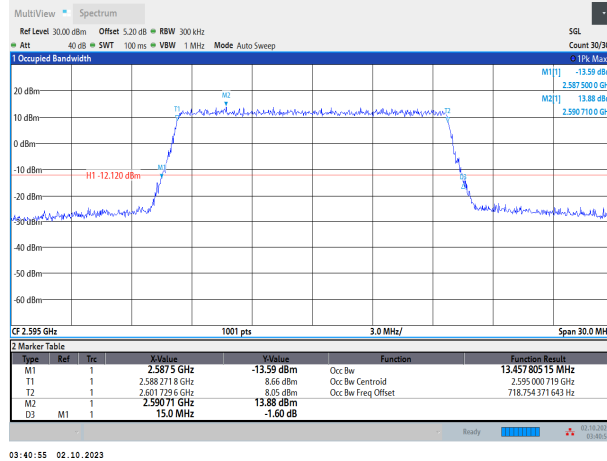
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**Band38-15MHz-64QAM-38000-75RB#0**



**Band38-15MHz-256QAM-38000-75RB#0**

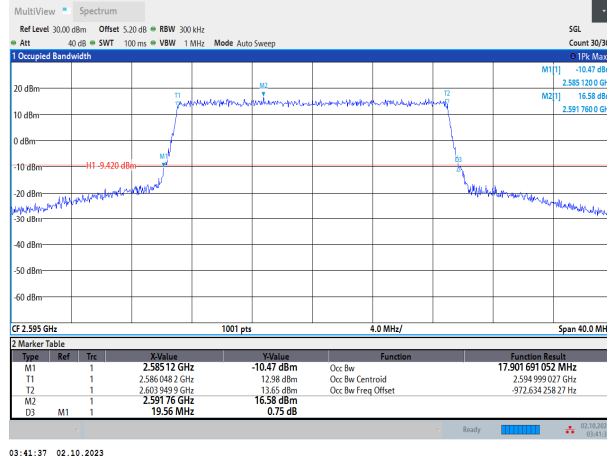


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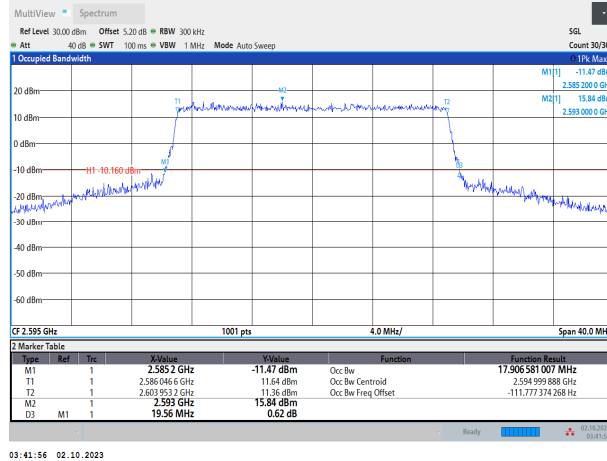
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Band38-20MHz-QPSK-38000-100RB#0



Band38-20MHz-16QAM-38000-100RB#0

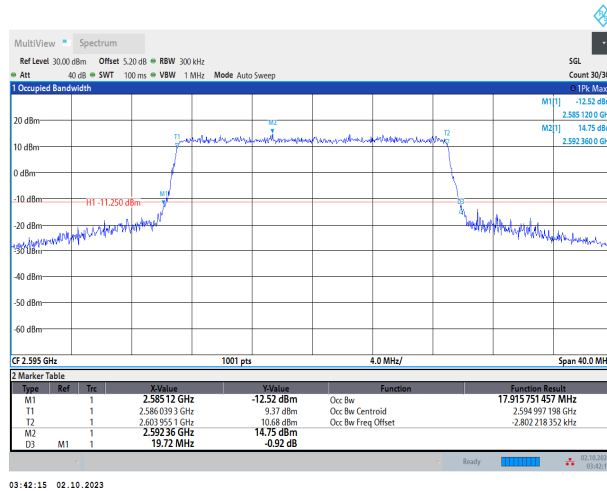


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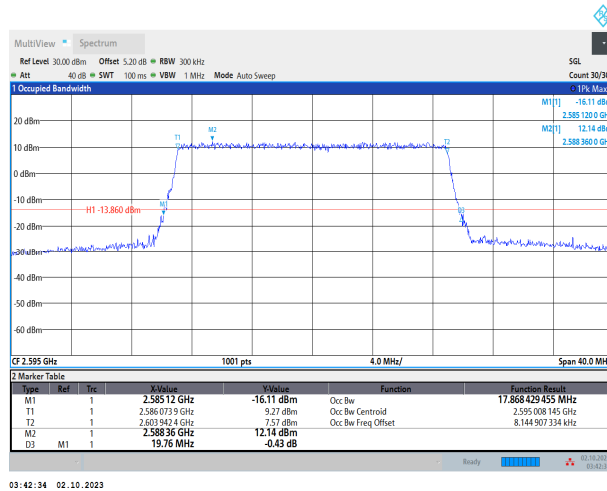
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Band38-20MHz-64QAM-38000-100RB#0



Band38-20MHz-256QAM-38000-100RB#0



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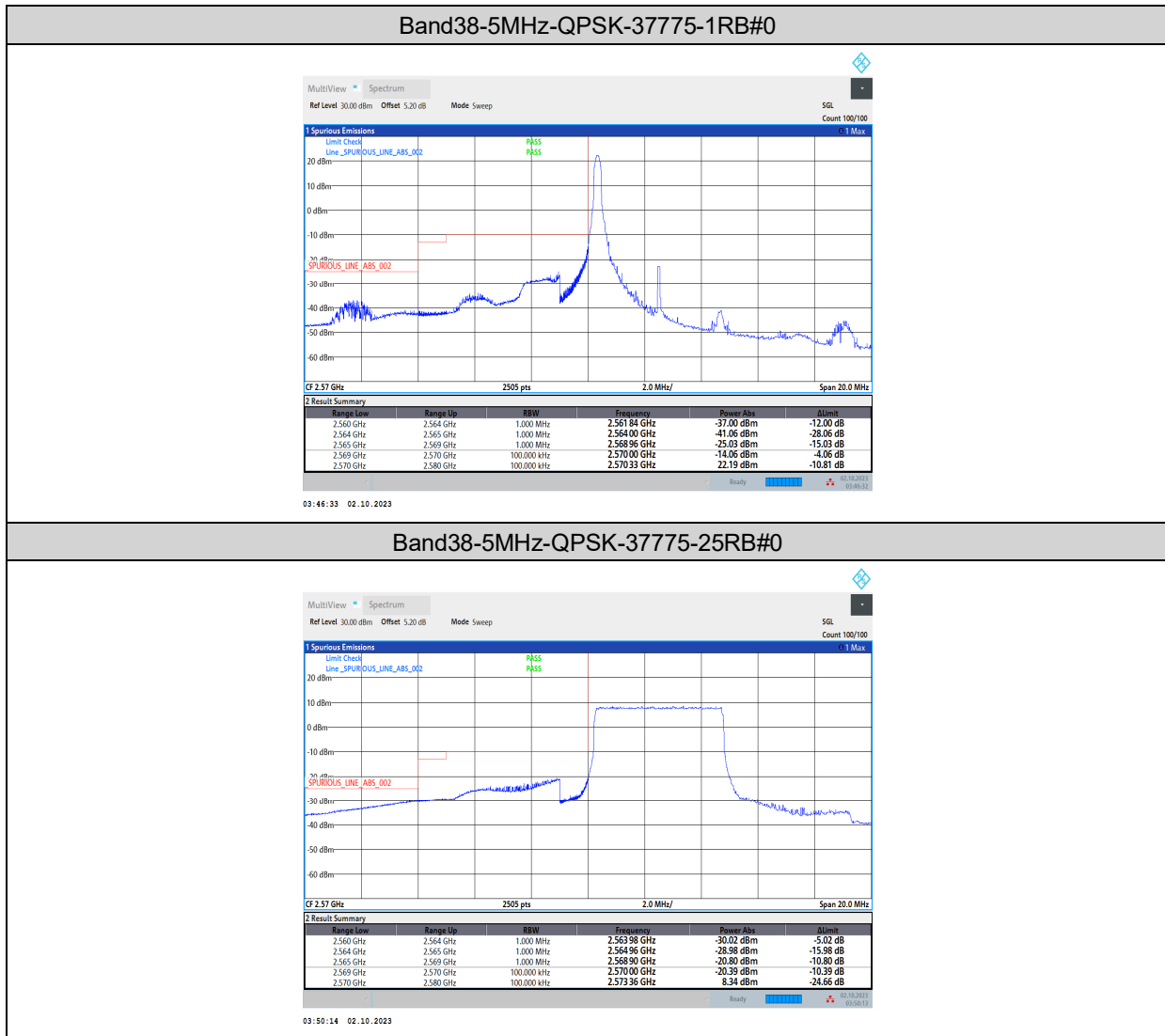
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## Band Edge

## Test Graphs

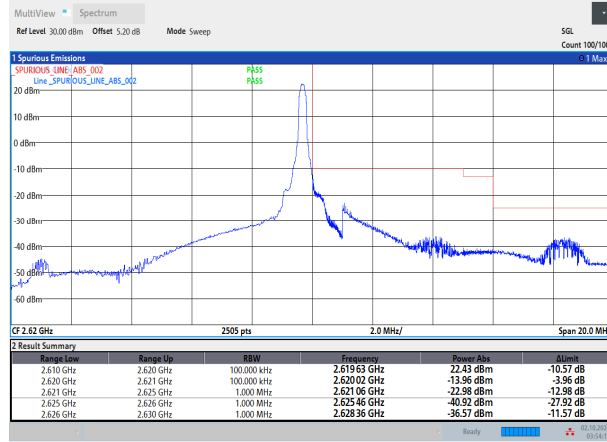


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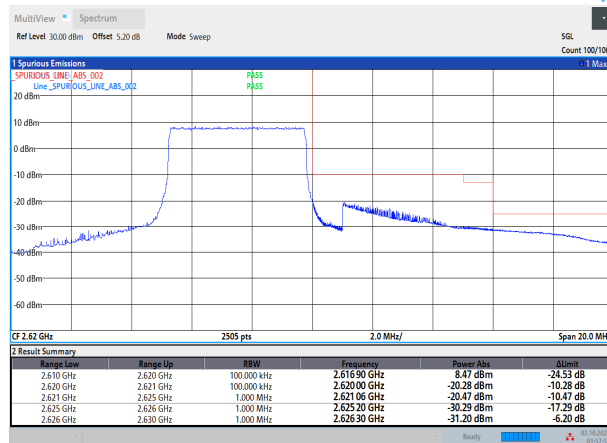
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Band38-5MHz-QPSK-38225-1RB#24



03:54:13 02.10.2023

Band38-5MHz-QPSK-38225-25RB#0



03:57:56 02.10.2023

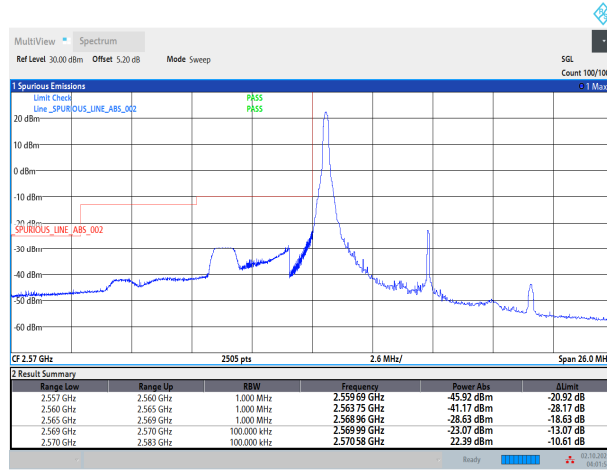


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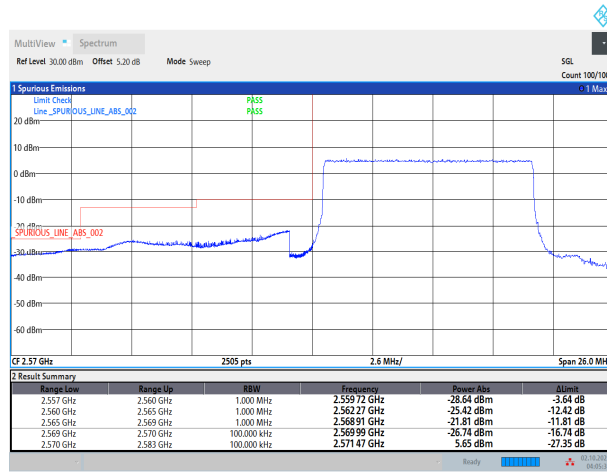
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Band38-10MHz-QPSK-37800-1RB#0



04:01:55 02.10.2023

Band38-10MHz-QPSK-37800-50RB#0



04:05:36 02.10.2023



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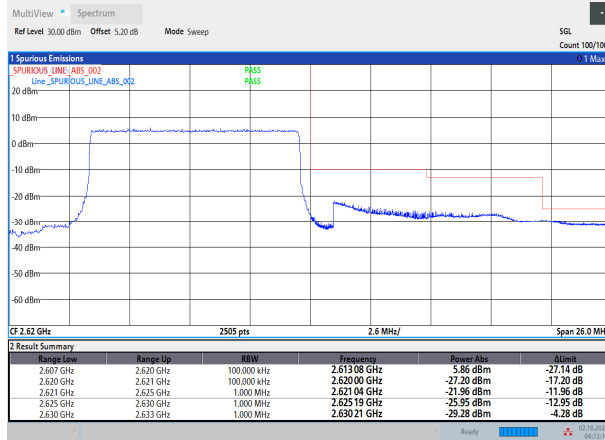
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Band38-10MHz-QPSK-38200-1RB#49



04:09:35 02.10.2023

Band38-10MHz-QPSK-38200-50RB#0



04:13:15 02.10.2023

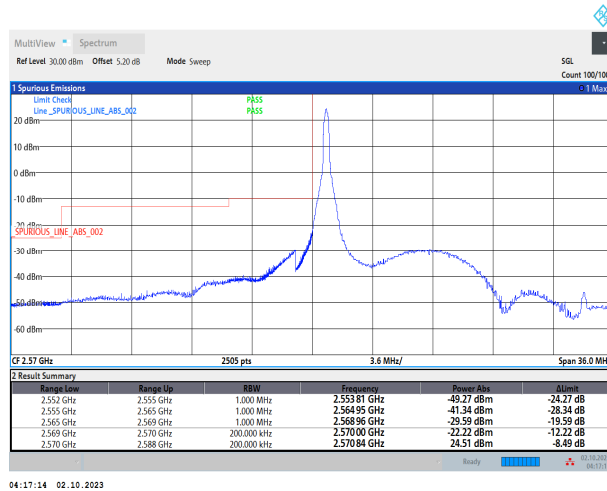


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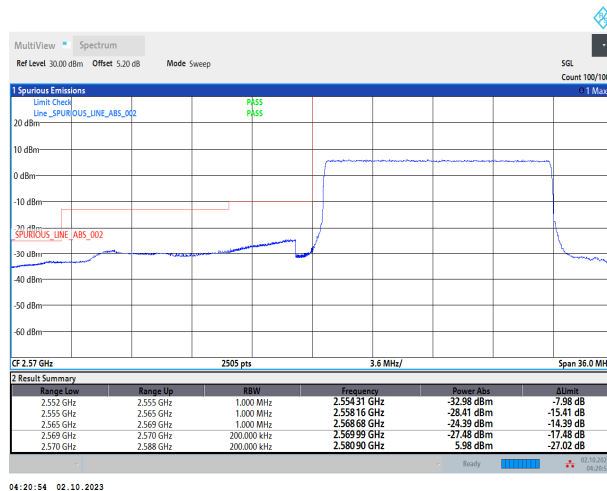
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Band38-15MHz-QPSK-37825-1RB#0



04:17:14 02.10.2023

Band38-15MHz-QPSK-37825-75RB#0



04:20:54 02.10.2023

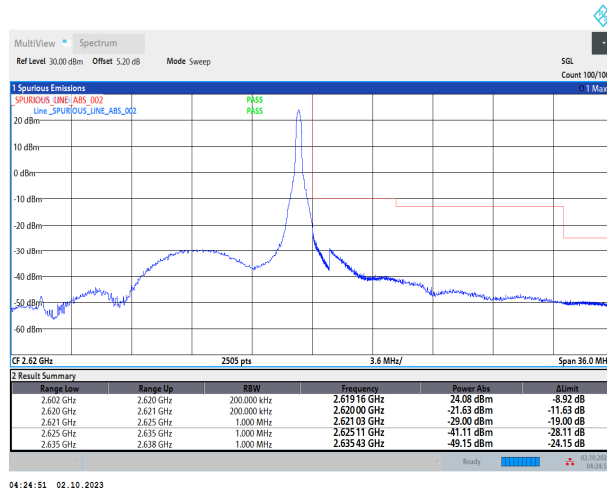


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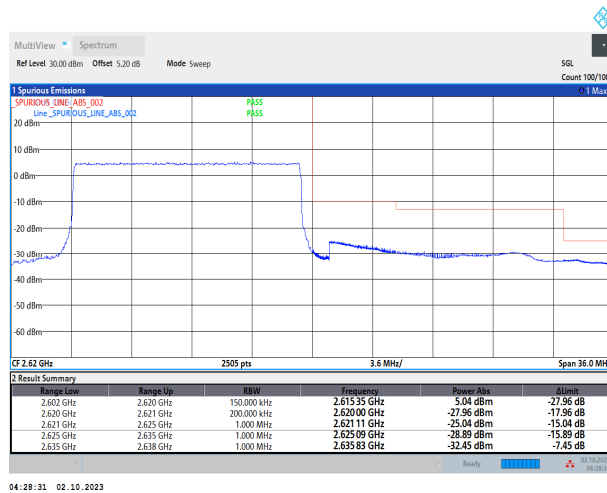
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Band38-15MHz-QPSK-38175-1RB#74



Band38-15MHz-QPSK-38175-75RB#0

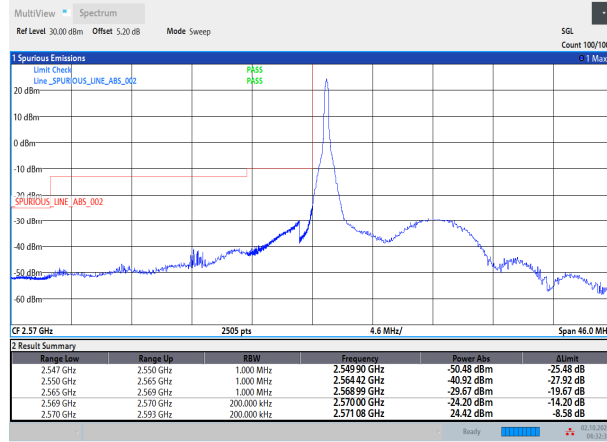


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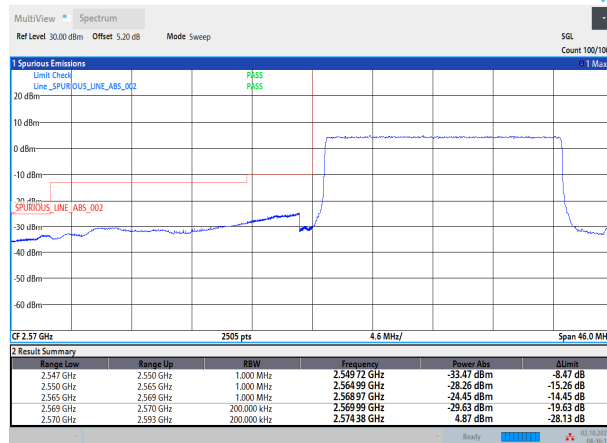
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Band38-20MHz-QPSK-37850-1RB#0



04:32:11 02.10.2023

Band38-20MHz-QPSK-37850-100RB#0



04:36:11 02.10.2023

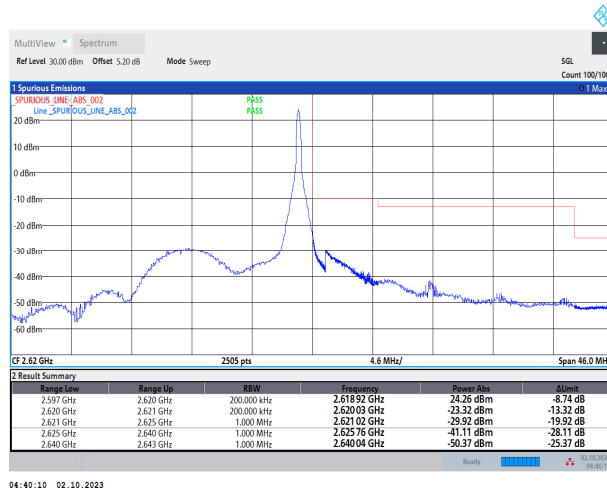


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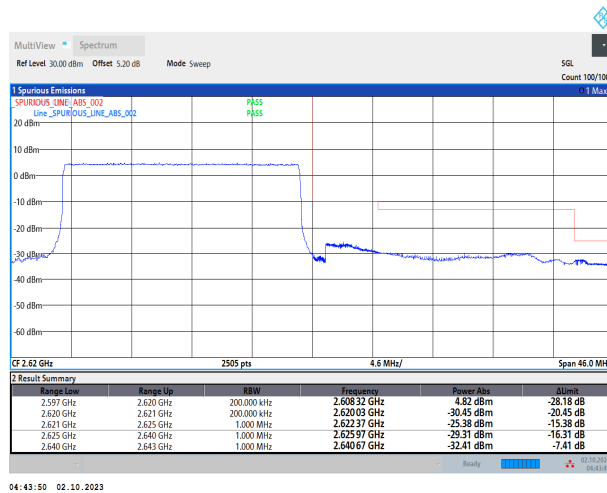
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Band38-20MHz-QPSK-38150-1RB#99



Band38-20MHz-QPSK-38150-100RB#0



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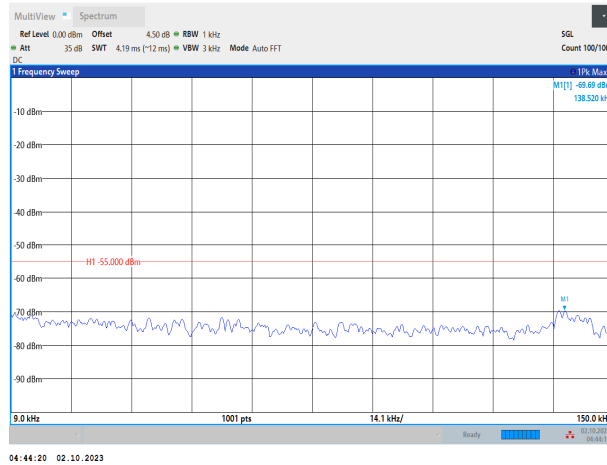
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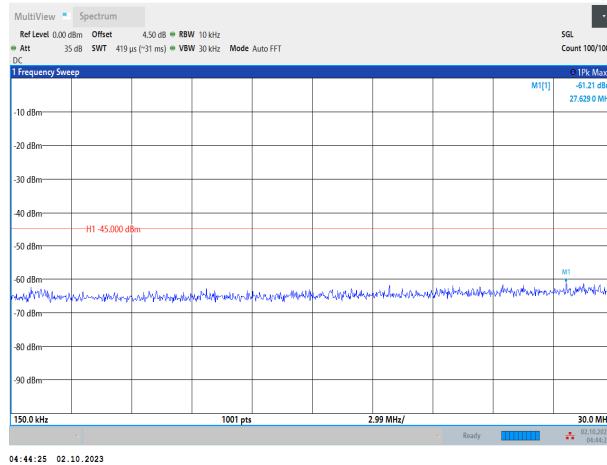
## Conducted Spurious Emission

### Test Graphs

Band38-20MHz-QPSK-37850-1RB#0-Range1:0.009~0.15MHz



Band38-20MHz-QPSK-37850-1RB#0-Range2:0.15~30MHz

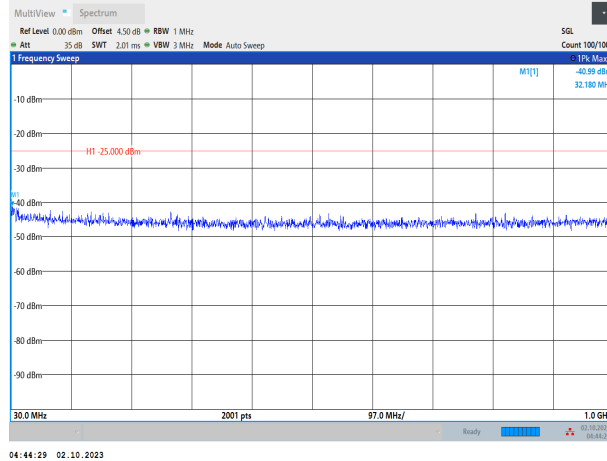


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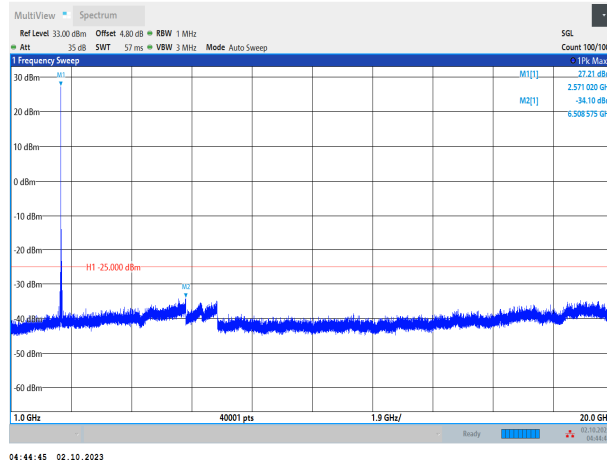
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Band38-20MHz-QPSK-37850-1RB#0-Range3:30~1000MHz



Band38-20MHz-QPSK-37850-1RB#0-Range4:1000~20000MHz

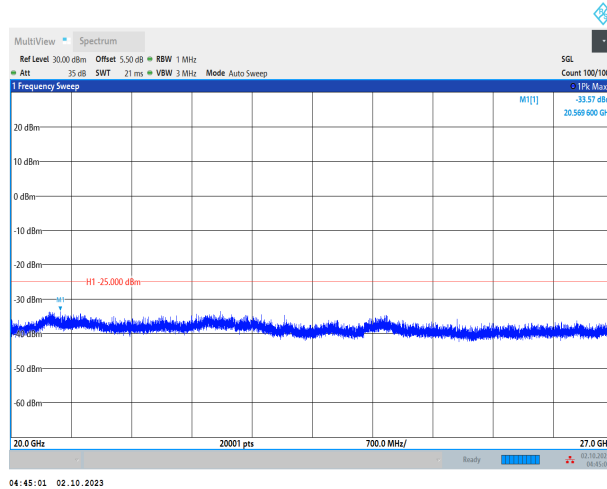


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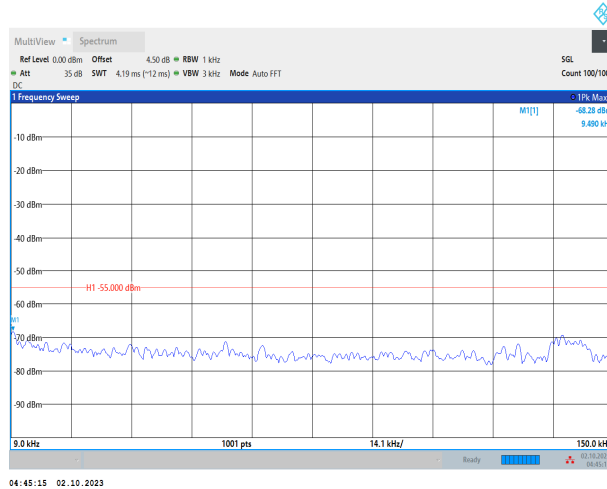
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Band38-20MHz-QPSK-37850-1RB#0-Range5:20000~27000MHz



Band38-20MHz-QPSK-38000-1RB#0-Range1:0.009~0.15MHz

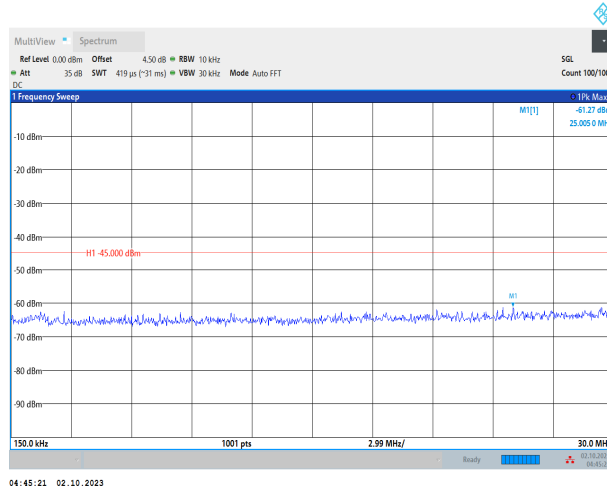


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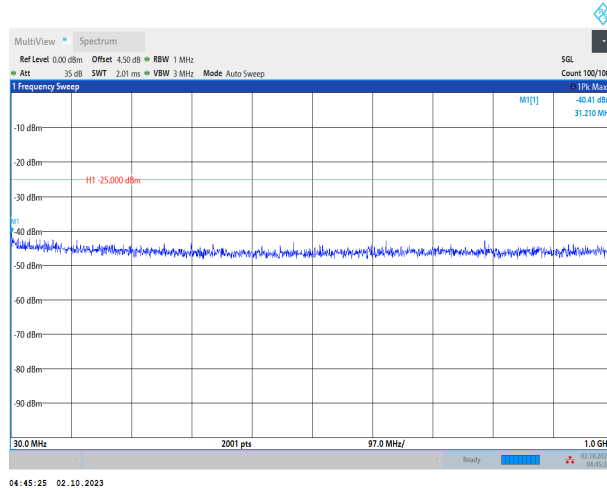
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Band38-20MHz-QPSK-38000-1RB#0-Range2:0.15~30MHz



Band38-20MHz-QPSK-38000-1RB#0-Range3:30~1000MHz

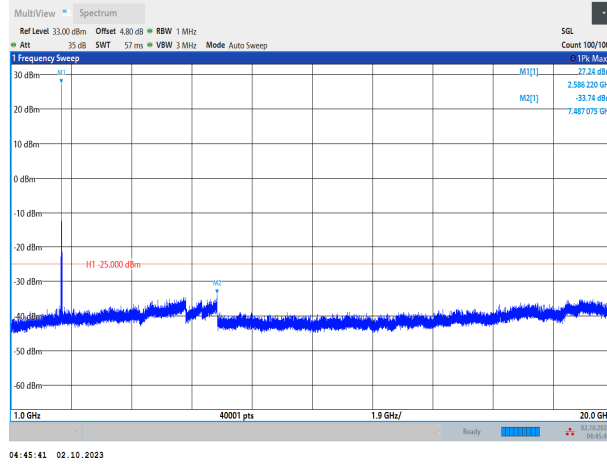


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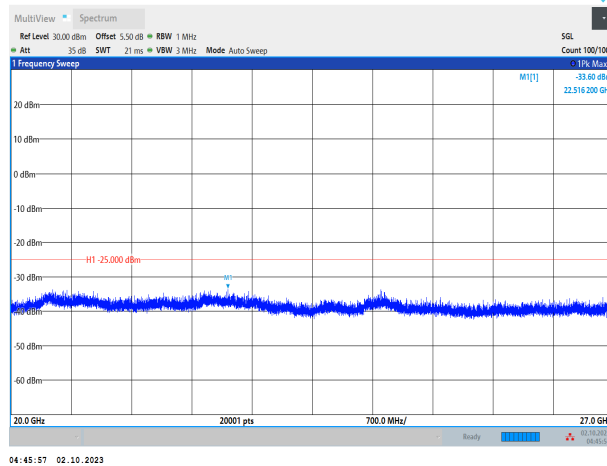
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Band38-20MHz-QPSK-38000-1RB#0-Range4:1000~20000MHz



Band38-20MHz-QPSK-38000-1RB#0-Range5:20000~27000MHz

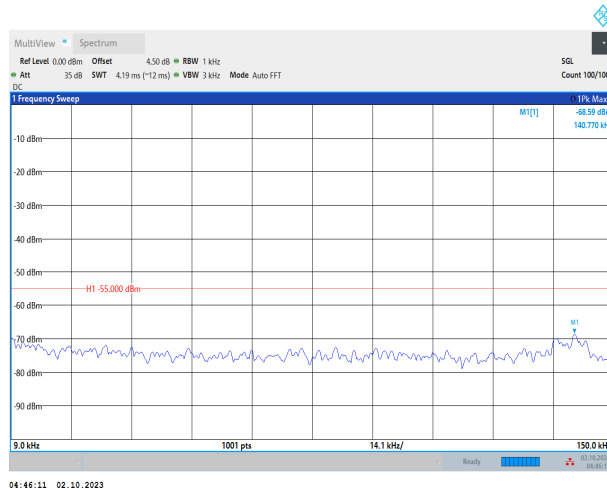


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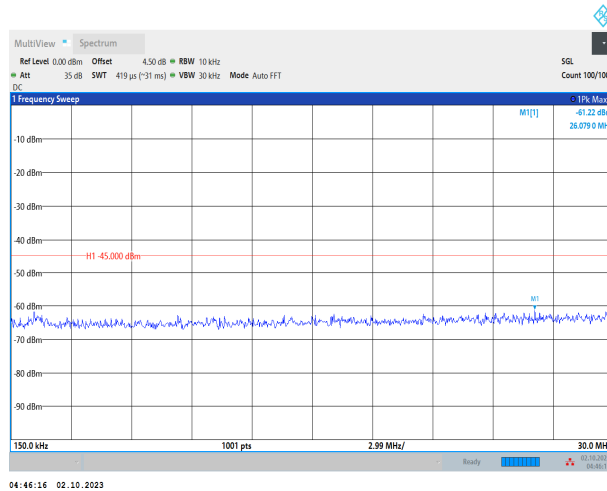
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Band38-20MHz-QPSK-38150-1RB#0-Range1:0.009~0.15MHz



Band38-20MHz-QPSK-38150-1RB#0-Range2:0.15~30MHz

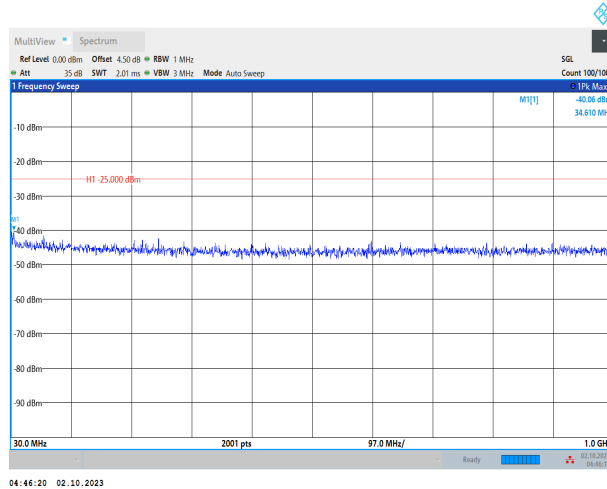


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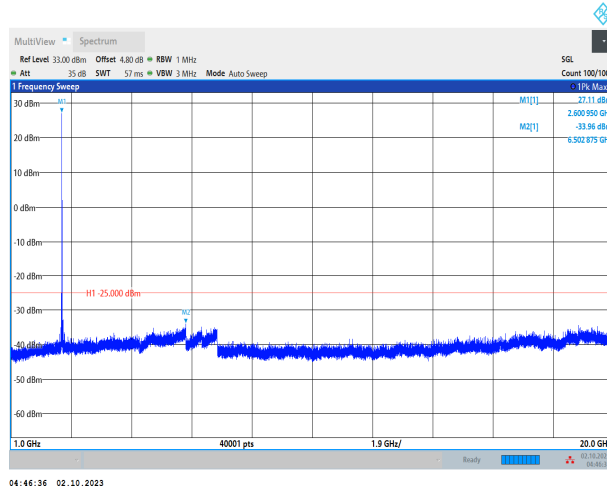
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Band38-20MHz-QPSK-38150-1RB#0-Range3:30~1000MHz



Band38-20MHz-QPSK-38150-1RB#0-Range4:1000~20000MHz

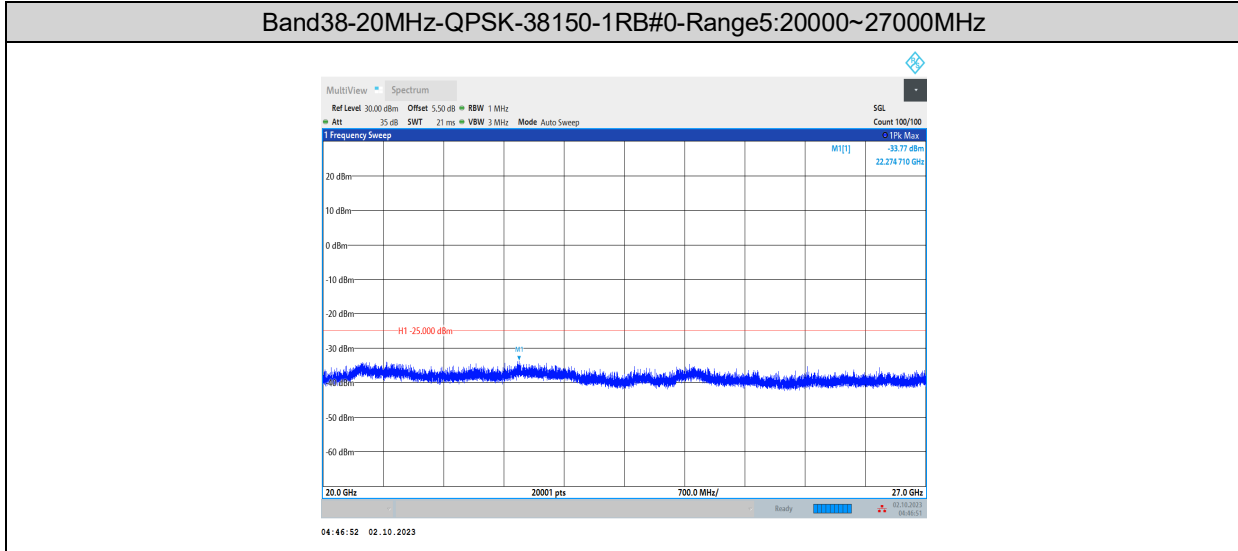


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Band38-20MHz-QPSK-38150-1RB#0-Range5:20000~27000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE Band 38\_ TM1

Test Channel = Low

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 5142.18         | 43.74          | -47.85      | 31.84    | -67.53      | -25.00      | 42.53       | Horizontal |
| 2               | 7713.27         | 41.49          | -45.17      | 36.54    | -62.40      | -25.00      | 37.40       | Horizontal |
| 3               | 10284.36        | 38.92          | -41.30      | 38.76    | -58.89      | -25.00      | 33.89       | Horizontal |
| 4               | 12855.45        | 37.32          | -39.37      | 38.69    | -58.63      | -25.00      | 33.63       | Horizontal |
| 5               | 15426.54        | 36.24          | -37.45      | 39.29    | -57.18      | -25.00      | 32.18       | Horizontal |
| 6               | 17997.63        | 35.41          | -36.60      | 45.29    | -51.16      | -25.00      | 26.16       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 5142.18         | 42.85          | -47.85      | 31.84    | -68.42      | -25.00      | 43.42       | Vertical |
| 2               | 7713.27         | 42.42          | -45.17      | 36.54    | -61.47      | -25.00      | 36.47       | Vertical |
| 3               | 10284.36        | 38.09          | -41.30      | 38.76    | -59.72      | -25.00      | 34.72       | Vertical |
| 4               | 12855.45        | 37.21          | -39.37      | 38.69    | -58.74      | -25.00      | 33.74       | Vertical |
| 5               | 15426.54        | 35.87          | -37.45      | 39.29    | -57.55      | -25.00      | 32.55       | Vertical |
| 6               | 17997.63        | 35.17          | -36.60      | 45.29    | -51.40      | -25.00      | 26.40       | Vertical |



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**Test Band = LTE Band 38\_ TM1**

**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 4230.5          | 45.29          | -48.18      | 29.81    | -68.34      | -25.00      | 43.34       | Horizontal |
| 2               | 5172.18         | 42.98          | -47.87      | 31.91    | -68.24      | -25.00      | 43.24       | Horizontal |
| 3               | 7758.27         | 41.93          | -45.03      | 36.49    | -61.87      | -25.00      | 36.87       | Horizontal |
| 4               | 10344.36        | 37.82          | -41.19      | 38.81    | -59.82      | -25.00      | 34.82       | Horizontal |
| 5               | 12930.45        | 36.71          | -39.42      | 38.64    | -59.33      | -25.00      | 34.33       | Horizontal |
| 6               | 15516.54        | 35.59          | -37.99      | 39.12    | -58.55      | -25.00      | 33.55       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 4234.5          | 46.06          | -48.16      | 29.82    | -67.54      | -25.00      | 42.54       | Vertical |
| 2               | 5172.18         | 43.22          | -47.87      | 31.91    | -68.00      | -25.00      | 43.00       | Vertical |
| 3               | 7758.27         | 41.58          | -45.03      | 36.49    | -62.22      | -25.00      | 37.22       | Vertical |
| 4               | 10344.36        | 38.15          | -41.19      | 38.81    | -59.49      | -25.00      | 34.49       | Vertical |
| 5               | 12930.45        | 36.55          | -39.42      | 38.64    | -59.49      | -25.00      | 34.49       | Vertical |
| 6               | 15516.54        | 35.74          | -37.99      | 39.12    | -58.40      | -25.00      | 33.40       | Vertical |



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**Test Band = LTE Band 38\_ TM1**

**Test Channel = High**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 4036            | 45.78          | -48.14      | 29.46    | -68.15      | -25.00      | 43.15       | Horizontal |
| 2               | 5202.18         | 43.43          | -47.89      | 31.99    | -67.73      | -25.00      | 42.73       | Horizontal |
| 3               | 7803.27         | 42.16          | -44.93      | 36.44    | -61.59      | -25.00      | 36.59       | Horizontal |
| 4               | 10404.36        | 38.72          | -41.21      | 38.86    | -58.89      | -25.00      | 33.89       | Horizontal |
| 5               | 13005.45        | 36.76          | -39.34      | 38.61    | -59.22      | -25.00      | 34.22       | Horizontal |
| 6               | 15606.54        | 35.76          | -37.65      | 38.95    | -58.20      | -25.00      | 33.20       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 4164.5          | 45.33          | -48.25      | 29.70    | -68.49      | -25.00      | 43.49       | Vertical |
| 2               | 5202.18         | 43.28          | -47.89      | 31.99    | -67.88      | -25.00      | 42.88       | Vertical |
| 3               | 7803.27         | 41.33          | -44.93      | 36.44    | -62.42      | -25.00      | 37.42       | Vertical |
| 4               | 10404.36        | 39.12          | -41.21      | 38.86    | -58.49      | -25.00      | 33.49       | Vertical |
| 5               | 13005.45        | 36.07          | -39.34      | 38.61    | -59.91      | -25.00      | 34.91       | Vertical |
| 6               | 15606.54        | 35.62          | -37.65      | 38.95    | -58.34      | -25.00      | 33.34       | 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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.



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## Frequency Stability

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0      | VL            | NT               | -1.30          | -0.000501       | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0      | VN            | NT               | 0.50           | 0.000193        | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0      | VH            | NT               | 1.20           | 0.000462        | PASS    |

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0      | NV            | -30              | 0.30           | 0.000116        | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0      | NV            | -20              | -2.20          | -0.000848       | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0      | NV            | -10              | 1.60           | 0.000617        | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0      | NV            | 0                | 1.40           | 0.000539        | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0      | NV            | 10               | -0.40          | -0.000154       | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0      | NV            | 20               | 0.20           | 0.000077        | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0      | NV            | 30               | -1.30          | -0.000501       | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0      | NV            | 40               | -3.10          | -0.001195       | PASS    |
| Band38 | 20MHz     | QPSK       | 38000   | 100RB#0      | NV            | 50               | 0.90           | 0.000347        | PASS    |

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