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# Appendix B.8

## LTE Band 12



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## Effective (Isotropic) Radiated Power Output Data

## Test Result

## Ant41:

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|----------|------------|---------|
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#0            | 23.87       | 14.59    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#2            | 23.91       | 14.63    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#5            | 23.95       | 14.67    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 6RB#0            | 22.98       | 13.70    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#0            | 22.87       | 13.59    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#2            | 24.07       | 14.79    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#5            | 23.89       | 14.61    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 6RB#0            | 23.03       | 13.75    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#0            | 23.36       | 14.08    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#2            | 23.85       | 14.57    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#5            | 23.77       | 14.49    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 6RB#0            | 22.93       | 13.65    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#0            | 23.00       | 13.72    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#2            | 23.41       | 14.13    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#5            | 23.05       | 13.77    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 6RB#0            | 22.04       | 12.76    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#0            | 23.16       | 13.88    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#2            | 23.25       | 13.97    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#5            | 23.38       | 14.10    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 6RB#0            | 21.85       | 12.57    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#0            | 23.23       | 13.95    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#2            | 23.19       | 13.91    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#5            | 23.11       | 13.83    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 6RB#0            | 22.04       | 12.76    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23017   | 1RB#0            | 22.18       | 12.90    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23017   | 1RB#2            | 22.52       | 13.24    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23017   | 1RB#5            | 22.16       | 12.88    | 34.77      | PASS    |



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|--------|--------|--------|-------|--------|-------|-------|-------|------|
| Band12 | 1.4MHz | 64QAM  | 23017 | 6RB#0  | 21.04 | 11.76 | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM  | 23095 | 1RB#0  | 22.07 | 12.79 | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM  | 23095 | 1RB#2  | 22.20 | 12.92 | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM  | 23095 | 1RB#5  | 22.15 | 12.87 | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM  | 23095 | 6RB#0  | 21.06 | 11.78 | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM  | 23173 | 1RB#0  | 22.19 | 12.91 | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM  | 23173 | 1RB#2  | 22.30 | 13.02 | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM  | 23173 | 1RB#5  | 22.08 | 12.80 | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM  | 23173 | 6RB#0  | 21.00 | 11.72 | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23017 | 1RB#0  | 19.23 | 9.95  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23017 | 1RB#2  | 19.37 | 10.09 | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23017 | 1RB#5  | 19.15 | 9.87  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23017 | 6RB#0  | 19.07 | 9.79  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23095 | 1RB#0  | 19.14 | 9.86  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23095 | 1RB#2  | 19.19 | 9.91  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23095 | 1RB#5  | 19.19 | 9.91  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23095 | 6RB#0  | 18.93 | 9.65  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23173 | 1RB#0  | 19.08 | 9.80  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23173 | 1RB#2  | 19.11 | 9.83  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23173 | 1RB#5  | 19.04 | 9.76  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23173 | 6RB#0  | 18.78 | 9.50  | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23025 | 1RB#0  | 24.08 | 14.80 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23025 | 1RB#8  | 24.09 | 14.81 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23025 | 1RB#14 | 24.00 | 14.72 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23025 | 15RB#0 | 23.11 | 13.83 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23095 | 1RB#0  | 23.87 | 14.59 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23095 | 1RB#8  | 24.17 | 14.89 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23095 | 1RB#14 | 23.98 | 14.70 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23095 | 15RB#0 | 23.14 | 13.86 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23165 | 1RB#0  | 23.41 | 14.13 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23165 | 1RB#8  | 24.16 | 14.88 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23165 | 1RB#14 | 23.96 | 14.68 | 34.77 | PASS |



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|--------|------|--------|-------|--------|-------|-------|-------|------|
| Band12 | 3MHz | QPSK   | 23165 | 15RB#0 | 23.13 | 13.85 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23025 | 1RB#0  | 23.28 | 14.00 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23025 | 1RB#8  | 23.59 | 14.31 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23025 | 1RB#14 | 23.50 | 14.22 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23025 | 15RB#0 | 22.21 | 12.93 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23095 | 1RB#0  | 23.42 | 14.14 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23095 | 1RB#8  | 23.54 | 14.26 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23095 | 1RB#14 | 23.41 | 14.13 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23095 | 15RB#0 | 22.15 | 12.87 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23165 | 1RB#0  | 23.14 | 13.86 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23165 | 1RB#8  | 23.47 | 14.19 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23165 | 1RB#14 | 23.42 | 14.14 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23165 | 15RB#0 | 22.13 | 12.85 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23025 | 1RB#0  | 22.47 | 13.19 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23025 | 1RB#8  | 22.25 | 12.97 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23025 | 1RB#14 | 22.30 | 13.02 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23025 | 15RB#0 | 21.26 | 11.98 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23095 | 1RB#0  | 22.39 | 13.11 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23095 | 1RB#8  | 22.54 | 13.26 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23095 | 1RB#14 | 22.30 | 13.02 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23095 | 15RB#0 | 21.17 | 11.89 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23165 | 1RB#0  | 22.46 | 13.18 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23165 | 1RB#8  | 22.35 | 13.07 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23165 | 1RB#14 | 22.28 | 13.00 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23165 | 15RB#0 | 21.16 | 11.88 | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23025 | 1RB#0  | 19.35 | 10.07 | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23025 | 1RB#8  | 19.33 | 10.05 | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23025 | 1RB#14 | 19.34 | 10.06 | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23025 | 15RB#0 | 19.30 | 10.02 | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23095 | 1RB#0  | 19.28 | 10.00 | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23095 | 1RB#8  | 19.36 | 10.08 | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23095 | 1RB#14 | 19.35 | 10.07 | 34.77 | PASS |



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| Band12 | 3MHz | 256QAM | 23095 | 15RB#0 | 19.11 | 9.83  | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23165 | 1RB#0  | 19.20 | 9.92  | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23165 | 1RB#8  | 19.32 | 10.04 | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23165 | 1RB#14 | 19.40 | 10.12 | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23165 | 15RB#0 | 19.13 | 9.85  | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23035 | 1RB#0  | 24.09 | 14.81 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23035 | 1RB#12 | 24.01 | 14.73 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23035 | 1RB#24 | 24.06 | 14.78 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23035 | 25RB#0 | 23.25 | 13.97 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23095 | 1RB#0  | 23.56 | 14.28 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23095 | 1RB#12 | 24.09 | 14.81 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23095 | 1RB#24 | 24.05 | 14.77 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23095 | 25RB#0 | 23.14 | 13.86 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23155 | 1RB#0  | 23.41 | 14.13 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23155 | 1RB#12 | 23.93 | 14.65 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23155 | 1RB#24 | 24.05 | 14.77 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23155 | 25RB#0 | 23.12 | 13.84 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23035 | 1RB#0  | 23.49 | 14.21 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23035 | 1RB#12 | 23.50 | 14.22 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23035 | 1RB#24 | 23.44 | 14.16 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23035 | 25RB#0 | 22.25 | 12.97 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23095 | 1RB#0  | 23.41 | 14.13 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23095 | 1RB#12 | 23.44 | 14.16 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23095 | 1RB#24 | 23.44 | 14.16 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23095 | 25RB#0 | 22.18 | 12.90 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23155 | 1RB#0  | 23.28 | 14.00 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23155 | 1RB#12 | 23.20 | 13.92 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23155 | 1RB#24 | 23.40 | 14.12 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23155 | 25RB#0 | 22.15 | 12.87 | 34.77 | PASS |
| Band12 | 5MHz | 64QAM  | 23035 | 1RB#0  | 22.37 | 13.09 | 34.77 | PASS |
| Band12 | 5MHz | 64QAM  | 23035 | 1RB#12 | 22.26 | 12.98 | 34.77 | PASS |
| Band12 | 5MHz | 64QAM  | 23035 | 1RB#24 | 22.45 | 13.17 | 34.77 | PASS |



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| Band12 | 5MHz  | 64QAM  | 23035 | 25RB#0 | 21.31 | 12.03 | 34.77 | PASS |
| Band12 | 5MHz  | 64QAM  | 23095 | 1RB#0  | 22.38 | 13.10 | 34.77 | PASS |
| Band12 | 5MHz  | 64QAM  | 23095 | 1RB#12 | 22.38 | 13.10 | 34.77 | PASS |
| Band12 | 5MHz  | 64QAM  | 23095 | 1RB#24 | 22.34 | 13.06 | 34.77 | PASS |
| Band12 | 5MHz  | 64QAM  | 23095 | 25RB#0 | 21.12 | 11.84 | 34.77 | PASS |
| Band12 | 5MHz  | 64QAM  | 23155 | 1RB#0  | 22.38 | 13.10 | 34.77 | PASS |
| Band12 | 5MHz  | 64QAM  | 23155 | 1RB#12 | 22.19 | 12.91 | 34.77 | PASS |
| Band12 | 5MHz  | 64QAM  | 23155 | 1RB#24 | 22.32 | 13.04 | 34.77 | PASS |
| Band12 | 5MHz  | 64QAM  | 23155 | 25RB#0 | 21.16 | 11.88 | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23035 | 1RB#0  | 19.35 | 10.07 | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23035 | 1RB#12 | 19.28 | 10.00 | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23035 | 1RB#24 | 19.27 | 9.99  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23035 | 25RB#0 | 19.18 | 9.90  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23095 | 1RB#0  | 19.23 | 9.95  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23095 | 1RB#12 | 19.26 | 9.98  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23095 | 1RB#24 | 19.14 | 9.86  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23095 | 25RB#0 | 19.16 | 9.88  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23155 | 1RB#0  | 19.26 | 9.98  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23155 | 1RB#12 | 19.18 | 9.90  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23155 | 1RB#24 | 19.03 | 9.75  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23155 | 25RB#0 | 19.18 | 9.90  | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23060 | 1RB#0  | 24.11 | 14.83 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23060 | 1RB#24 | 24.07 | 14.79 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23060 | 1RB#49 | 24.12 | 14.84 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23060 | 50RB#0 | 23.31 | 14.03 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23095 | 1RB#0  | 23.53 | 14.25 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23095 | 1RB#24 | 24.11 | 14.83 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23095 | 1RB#49 | 24.06 | 14.78 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23095 | 50RB#0 | 23.13 | 13.85 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23130 | 1RB#0  | 23.43 | 14.15 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23130 | 1RB#24 | 24.17 | 14.89 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23130 | 1RB#49 | 23.98 | 14.70 | 34.77 | PASS |



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|--------|-------|--------|-------|--------|-------|-------|-------|------|
| Band12 | 10MHz | QPSK   | 23130 | 50RB#0 | 23.19 | 13.91 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23060 | 1RB#0  | 23.37 | 14.09 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23060 | 1RB#24 | 23.34 | 14.06 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23060 | 1RB#49 | 23.26 | 13.98 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23060 | 50RB#0 | 22.25 | 12.97 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23095 | 1RB#0  | 23.42 | 14.14 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23095 | 1RB#24 | 23.36 | 14.08 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23095 | 1RB#49 | 23.18 | 13.90 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23095 | 50RB#0 | 22.22 | 12.94 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23130 | 1RB#0  | 23.34 | 14.06 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23130 | 1RB#24 | 23.30 | 14.02 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23130 | 1RB#49 | 23.18 | 13.90 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23130 | 50RB#0 | 22.14 | 12.86 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23060 | 1RB#0  | 22.59 | 13.31 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23060 | 1RB#24 | 22.39 | 13.11 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23060 | 1RB#49 | 22.43 | 13.15 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23060 | 50RB#0 | 21.30 | 12.02 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23095 | 1RB#0  | 22.33 | 13.05 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23095 | 1RB#24 | 22.37 | 13.09 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23095 | 1RB#49 | 22.17 | 12.89 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23095 | 50RB#0 | 21.22 | 11.94 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23130 | 1RB#0  | 22.45 | 13.17 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23130 | 1RB#24 | 22.43 | 13.15 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23130 | 1RB#49 | 22.26 | 12.98 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23130 | 50RB#0 | 21.22 | 11.94 | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23060 | 1RB#0  | 19.24 | 9.96  | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23060 | 1RB#24 | 19.30 | 10.02 | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23060 | 1RB#49 | 19.33 | 10.05 | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23060 | 50RB#0 | 19.25 | 9.97  | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23095 | 1RB#0  | 19.23 | 9.95  | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23095 | 1RB#24 | 19.30 | 10.02 | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23095 | 1RB#49 | 19.35 | 10.07 | 34.77 | PASS |



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|--------|-------|--------|-------|--------|-------|-------|-------|------|
| Band12 | 10MHz | 256QAM | 23095 | 50RB#0 | 19.21 | 9.93  | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23130 | 1RB#0  | 19.19 | 9.91  | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23130 | 1RB#24 | 19.38 | 10.10 | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23130 | 1RB#49 | 19.40 | 10.12 | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23130 | 50RB#0 | 19.22 | 9.94  | 34.77 | PASS |



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## Peak-to-Average Ratio(CCDF)

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band12 | 10MHz     | QPSK       | 23060   | 50RB#0           | 4.46       | 13        | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0           | 4.82       | 13        | PASS    |
| Band12 | 10MHz     | QPSK       | 23130   | 50RB#0           | 4.92       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23060   | 50RB#0           | 5.28       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23095   | 50RB#0           | 5.32       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23130   | 50RB#0           | 5.26       | 13        | PASS    |
| Band12 | 10MHz     | 64QAM      | 23060   | 50RB#0           | 6.00       | 13        | PASS    |
| Band12 | 10MHz     | 64QAM      | 23095   | 50RB#0           | 6.10       | 13        | PASS    |
| Band12 | 10MHz     | 64QAM      | 23130   | 50RB#0           | 6.08       | 13        | PASS    |
| Band12 | 10MHz     | 256QAM     | 23060   | 50RB#0           | 6.32       | 13        | PASS    |
| Band12 | 10MHz     | 256QAM     | 23095   | 50RB#0           | 6.36       | 13        | PASS    |
| Band12 | 10MHz     | 256QAM     | 23130   | 50RB#0           | 6.40       | 13        | PASS    |



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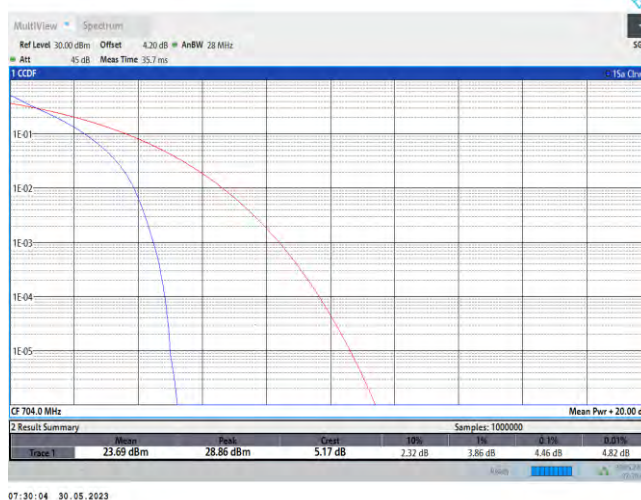
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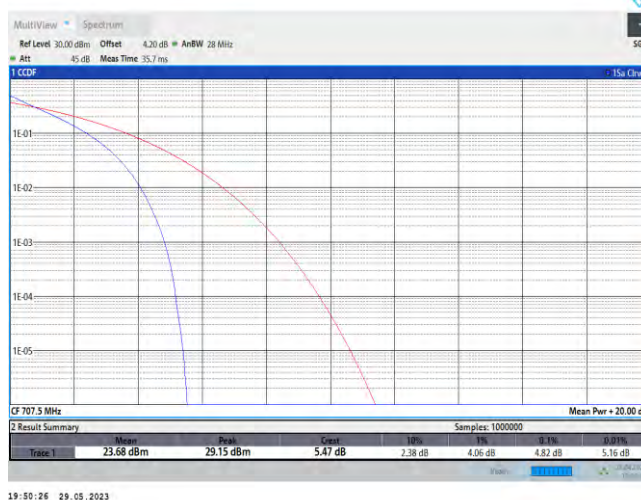
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## Test Graphs

Band12-10MHz-QPSK-23060-50RB#0



Band12-10MHz-QPSK-23095-50RB#0



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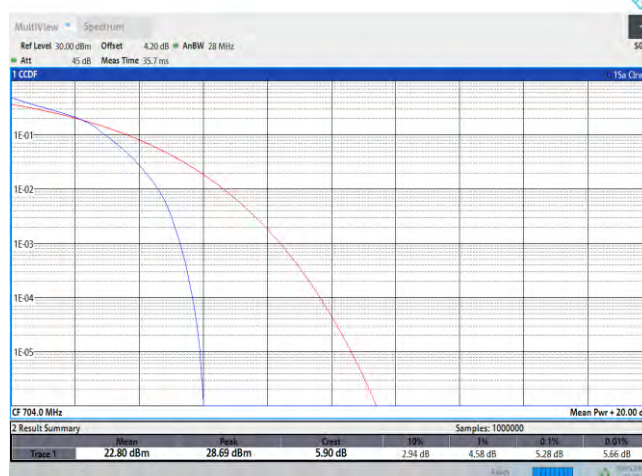
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19:51:16 29.05.2023

### Band12-10MHz-16QAM-23060-50RB#0



07:30:21 30.05.2023



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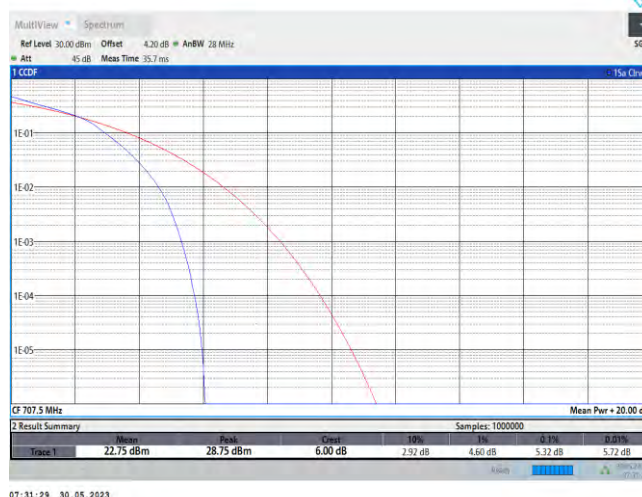
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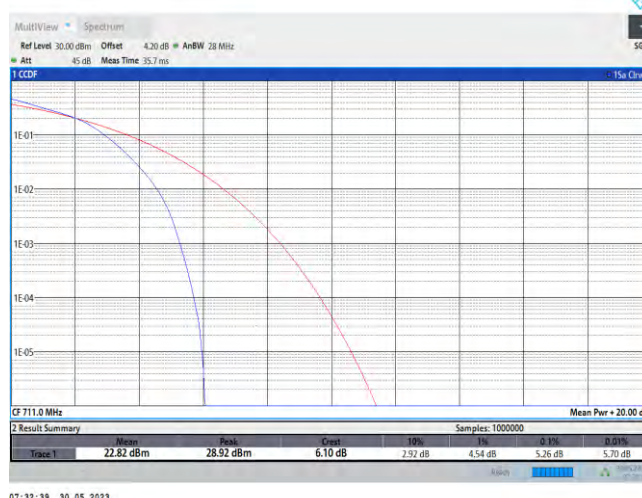
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### Band12-10MHz-16QAM-23130-50RB#0



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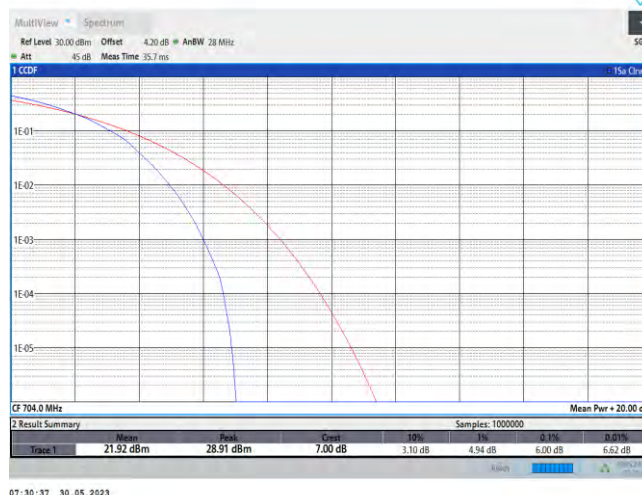
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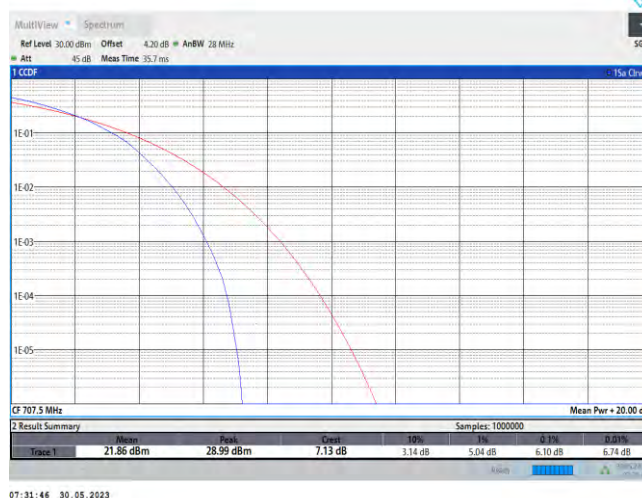
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### Band12-10MHz-64QAM-23095-50RB#0



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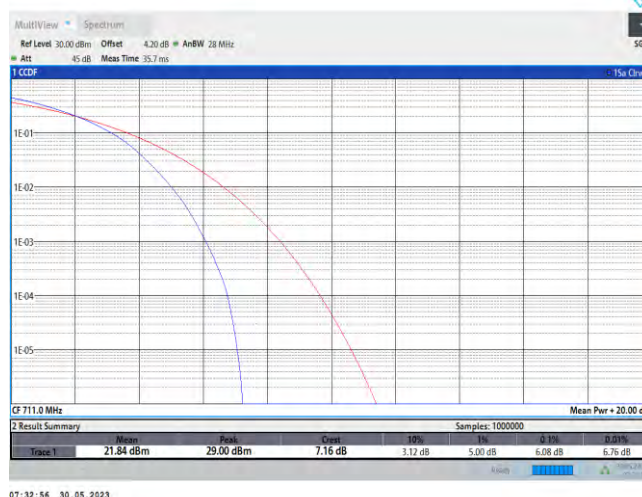
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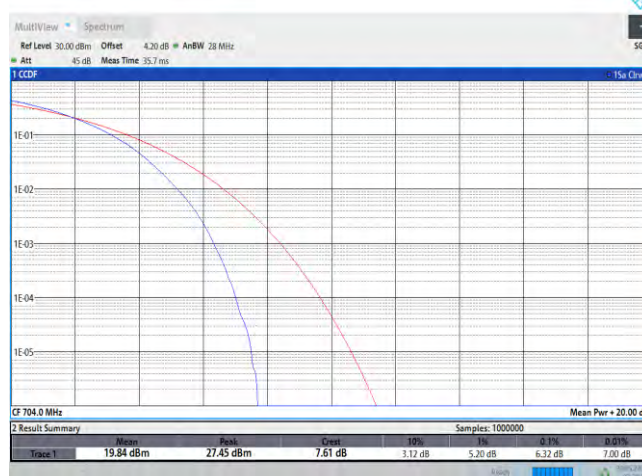
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### Band12-10MHz-64QAM-23130-50RB#0



07:32:56 30.05.2023

### Band12-10MHz-256QAM-23060-50RB#0



07:30:54 30.05.2023



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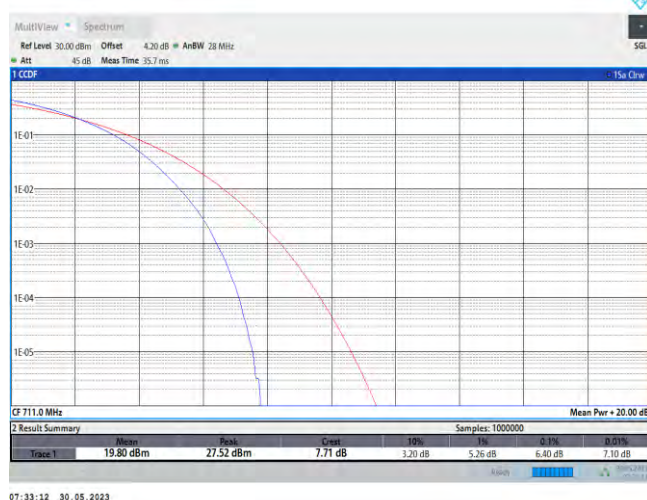
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### Band12-10MHz-256QAM-23095-50RB#0



### Band12-10MHz-256QAM-23130-50RB#0



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## Modulation Characteristics

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|--------|-----------|------------|---------|------------------|--------|---------|
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0           | PASS   | PASS    |
| Band12 | 10MHz     | 16QAM      | 23095   | 50RB#0           | PASS   | PASS    |
| Band12 | 10MHz     | 64QAM      | 23095   | 50RB#0           | PASS   | PASS    |
| Band12 | 10MHz     | 256QAM     | 23095   | 50RB#0           | PASS   | PASS    |



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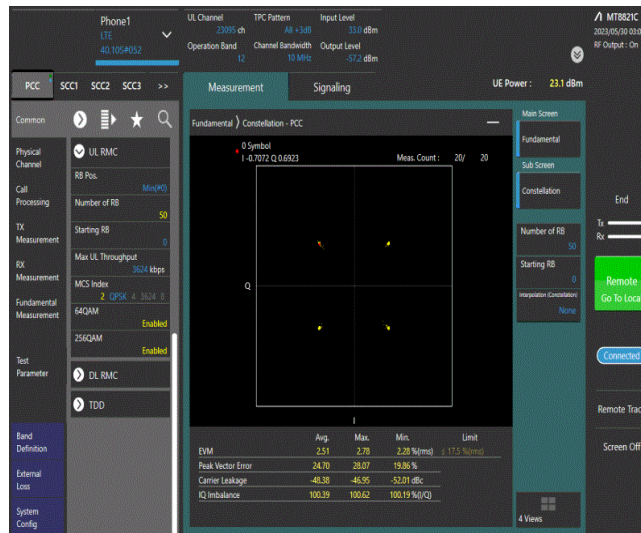
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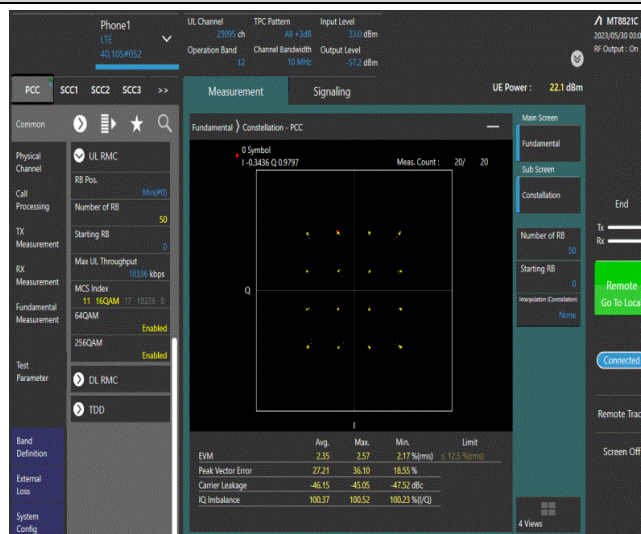
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### Test Graphs

Band12-10MHz-QPSK-23095-50RB#0



Band12-10MHz-16QAM-23095-50RB#0



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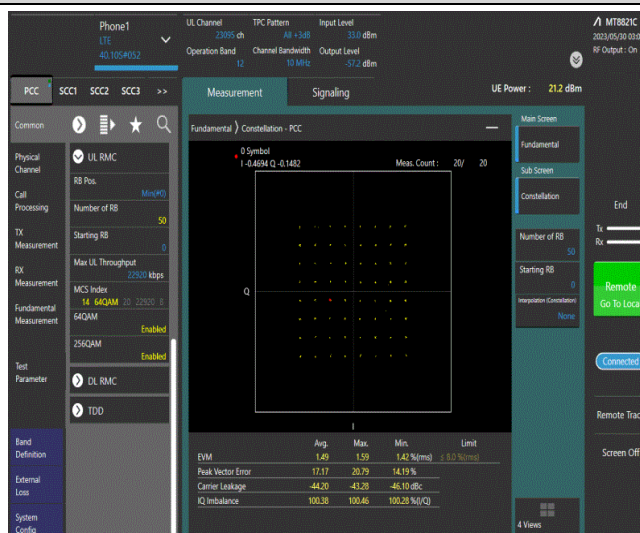
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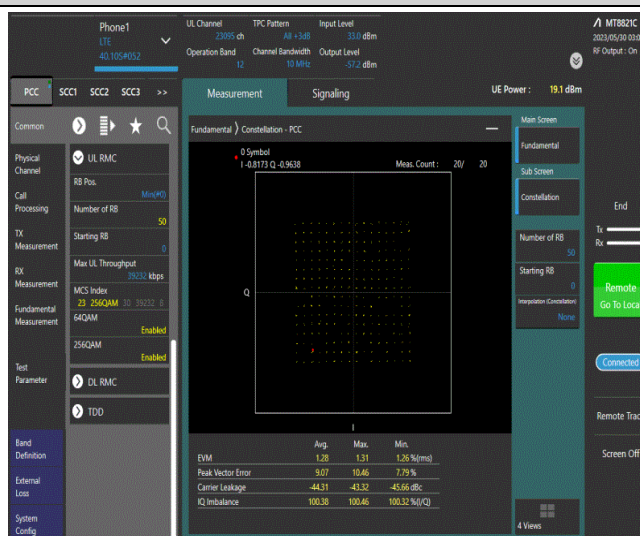
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### Band12-10MHz-64QAM-23095-50RB#0



### Band12-10MHz-256QAM-23095-50RB#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 |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band12 | 1.4MHz    | QPSK       | 23017   | 6RB#0            | 1.092                    | 1.24                 | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 6RB#0            | 1.087                    | 1.25                 | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 6RB#0            | 1.086                    | 1.23                 | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 6RB#0            | 1.095                    | 1.24                 | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 6RB#0            | 1.093                    | 1.24                 | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 6RB#0            | 1.094                    | 1.22                 | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23017   | 6RB#0            | 1.085                    | 1.21                 | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23095   | 6RB#0            | 1.090                    | 1.22                 | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23173   | 6RB#0            | 1.084                    | 1.22                 | PASS    |
| Band12 | 1.4MHz    | 256QAM     | 23017   | 6RB#0            | 1.082                    | 1.23                 | PASS    |
| Band12 | 1.4MHz    | 256QAM     | 23095   | 6RB#0            | 1.084                    | 1.22                 | PASS    |
| Band12 | 1.4MHz    | 256QAM     | 23173   | 6RB#0            | 1.078                    | 1.21                 | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 15RB#0           | 2.695                    | 2.97                 | PASS    |
| Band12 | 3MHz      | QPSK       | 23095   | 15RB#0           | 2.686                    | 2.93                 | PASS    |
| Band12 | 3MHz      | QPSK       | 23165   | 15RB#0           | 2.697                    | 2.96                 | PASS    |
| Band12 | 3MHz      | 16QAM      | 23025   | 15RB#0           | 2.698                    | 2.95                 | PASS    |
| Band12 | 3MHz      | 16QAM      | 23095   | 15RB#0           | 2.688                    | 2.97                 | PASS    |
| Band12 | 3MHz      | 16QAM      | 23165   | 15RB#0           | 2.697                    | 2.92                 | PASS    |
| Band12 | 3MHz      | 64QAM      | 23025   | 15RB#0           | 2.692                    | 2.96                 | PASS    |
| Band12 | 3MHz      | 64QAM      | 23095   | 15RB#0           | 2.695                    | 2.98                 | PASS    |
| Band12 | 3MHz      | 64QAM      | 23165   | 15RB#0           | 2.687                    | 2.91                 | PASS    |
| Band12 | 3MHz      | 256QAM     | 23025   | 15RB#0           | 2.697                    | 2.95                 | PASS    |
| Band12 | 3MHz      | 256QAM     | 23095   | 15RB#0           | 2.700                    | 2.97                 | PASS    |
| Band12 | 3MHz      | 256QAM     | 23165   | 15RB#0           | 2.705                    | 2.97                 | PASS    |
| Band12 | 5MHz      | QPSK       | 23035   | 25RB#0           | 4.477                    | 4.87                 | PASS    |
| Band12 | 5MHz      | QPSK       | 23095   | 25RB#0           | 4.467                    | 4.87                 | PASS    |
| Band12 | 5MHz      | QPSK       | 23155   | 25RB#0           | 4.468                    | 4.80                 | PASS    |
| Band12 | 5MHz      | 16QAM      | 23035   | 25RB#0           | 4.471                    | 4.86                 | PASS    |
| Band12 | 5MHz      | 16QAM      | 23095   | 25RB#0           | 4.471                    | 4.84                 | PASS    |
| Band12 | 5MHz      | 16QAM      | 23155   | 25RB#0           | 4.476                    | 4.84                 | PASS    |
| Band12 | 5MHz      | 64QAM      | 23035   | 25RB#0           | 4.480                    | 4.82                 | PASS    |



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|        |       |        |       |        |       |      |      |
|--------|-------|--------|-------|--------|-------|------|------|
| Band12 | 5MHz  | 64QAM  | 23095 | 25RB#0 | 4.468 | 4.86 | PASS |
| Band12 | 5MHz  | 64QAM  | 23155 | 25RB#0 | 4.472 | 4.81 | PASS |
| Band12 | 5MHz  | 256QAM | 23035 | 25RB#0 | 4.481 | 4.88 | PASS |
| Band12 | 5MHz  | 256QAM | 23095 | 25RB#0 | 4.461 | 4.86 | PASS |
| Band12 | 5MHz  | 256QAM | 23155 | 25RB#0 | 4.466 | 4.77 | PASS |
| Band12 | 10MHz | QPSK   | 23060 | 50RB#0 | 8.937 | 9.64 | PASS |
| Band12 | 10MHz | QPSK   | 23095 | 50RB#0 | 8.927 | 9.60 | PASS |
| Band12 | 10MHz | QPSK   | 23130 | 50RB#0 | 8.926 | 9.56 | PASS |
| Band12 | 10MHz | 16QAM  | 23060 | 50RB#0 | 8.940 | 9.74 | PASS |
| Band12 | 10MHz | 16QAM  | 23095 | 50RB#0 | 8.912 | 9.56 | PASS |
| Band12 | 10MHz | 16QAM  | 23130 | 50RB#0 | 8.921 | 9.56 | PASS |
| Band12 | 10MHz | 64QAM  | 23060 | 50RB#0 | 8.958 | 9.60 | PASS |
| Band12 | 10MHz | 64QAM  | 23095 | 50RB#0 | 8.914 | 9.52 | PASS |
| Band12 | 10MHz | 64QAM  | 23130 | 50RB#0 | 8.911 | 9.64 | PASS |
| Band12 | 10MHz | 256QAM | 23060 | 50RB#0 | 8.949 | 9.70 | PASS |
| Band12 | 10MHz | 256QAM | 23095 | 50RB#0 | 8.936 | 9.68 | PASS |
| Band12 | 10MHz | 256QAM | 23130 | 50RB#0 | 8.911 | 9.58 | PASS |



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### Test Graphs

Band12-1.4MHz-QPSK-23017-6RB#0



Band12-1.4MHz-QPSK-23095-6RB#0



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### Band12-1.4MHz-QPSK-23173-6RB#0



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### Band12-1.4MHz-64QAM-23095-6RB#0



03:42:42 30.05.2023



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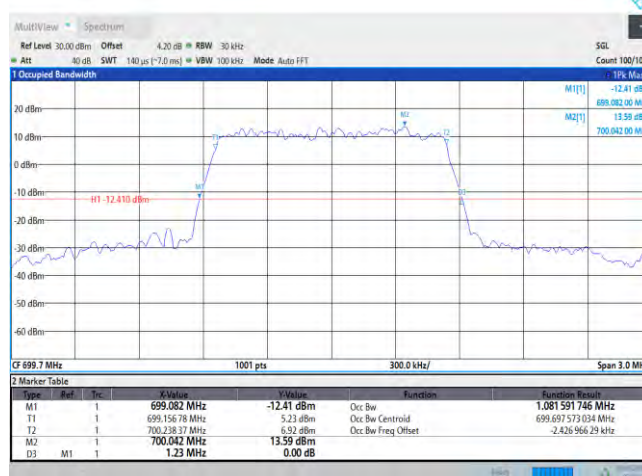
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### Band12-1.4MHz-64QAM-23173-6RB#0



03:43:43 30.05.2023

### Band12-1.4MHz-256QAM-23017-6RB#0



03:41:54 30.05.2023



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### Band12-1.4MHz-256QAM-23095-6RB#0



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### Band12-1.4MHz-256QAM-23173-6RB#0



03:43:58 30.05.2023



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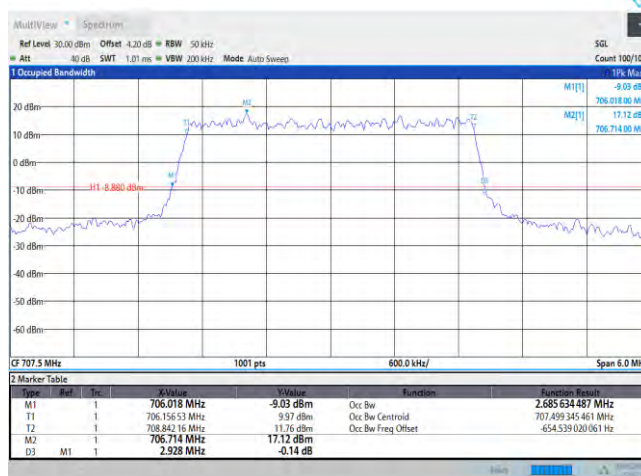
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### Band12-3MHz-QPSK-23025-15RB#0



03:44:26 30.05.2023

### Band12-3MHz-QPSK-23095-15RB#0



03:45:21 30.05.2023



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### Band12-3MHz-QPSK-23165-15RB#0



### Band12-3MHz-16QAM-23025-15RB#0



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### Band12-3MHz-16QAM-23095-15RB#0



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### Band12-3MHz-16QAM-23165-15RB#0



03:46:32 30.05.2023



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### Band12-3MHz-64QAM-23025-15RB#0



03:44:53 30.05.2023

### Band12-3MHz-64QAM-23095-15RB#0



03:45:48 30.05.2023



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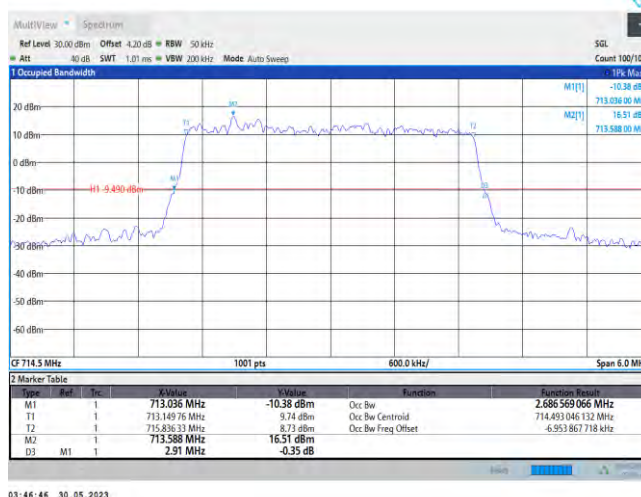
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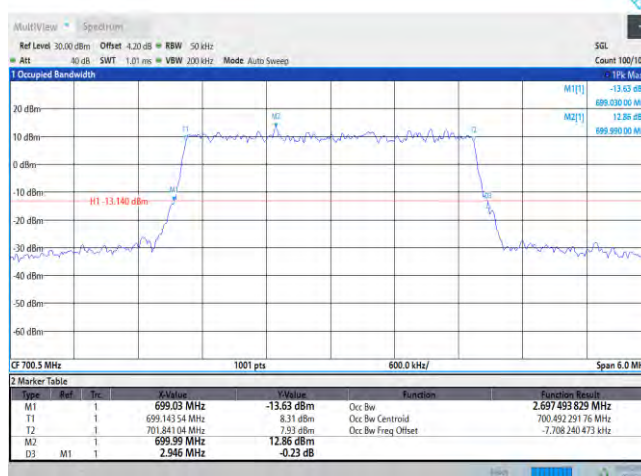
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### Band12-3MHz-64QAM-23165-15RB#0



03:46:46 30.05.2023

### Band12-3MHz-256QAM-23025-15RB#0



03:45:06 30.05.2023



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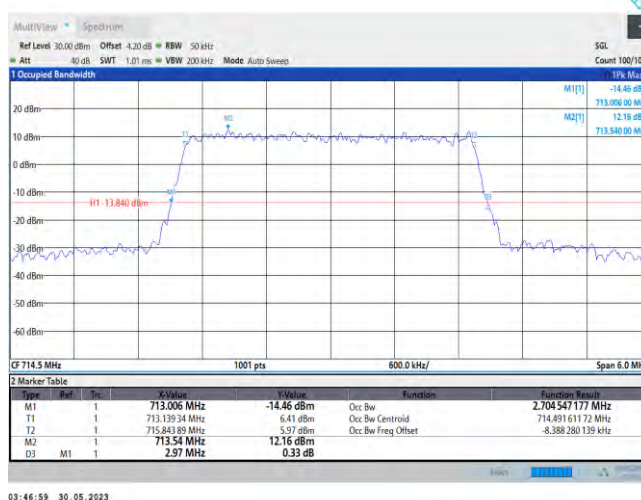
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### Band12-3MHz-256QAM-23165-15RB#0



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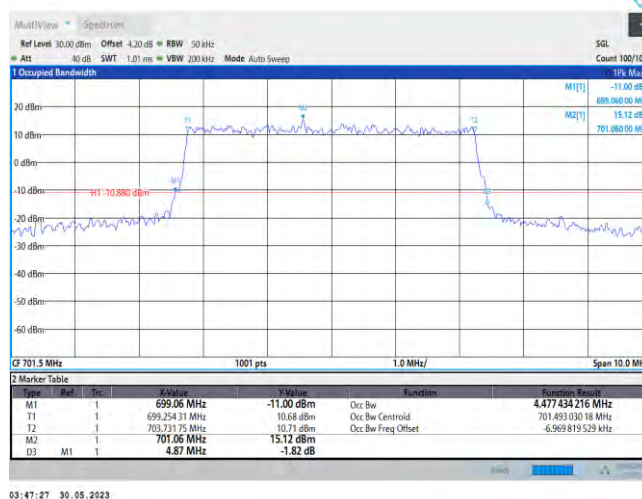
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### Band12-5MHz-QPSK-23035-25RB#0



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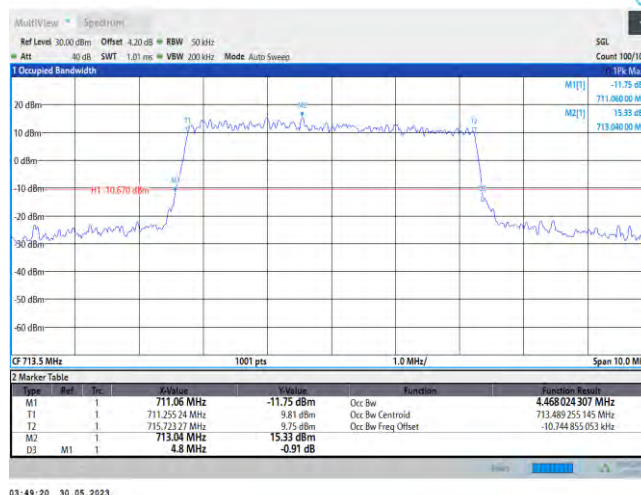
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### Band12-5MHz-16QAM-23035-25RB#0



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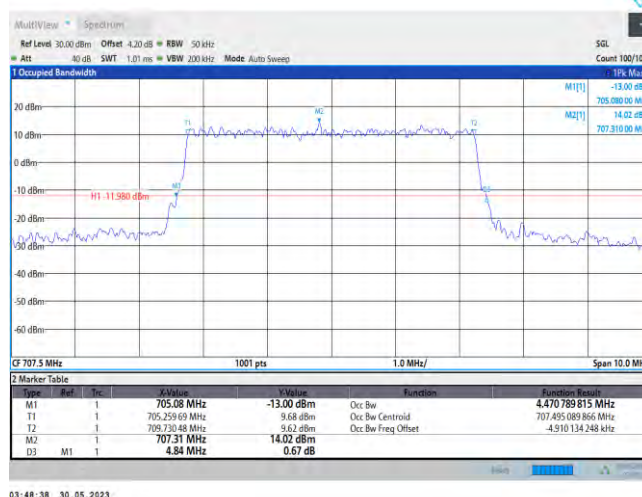
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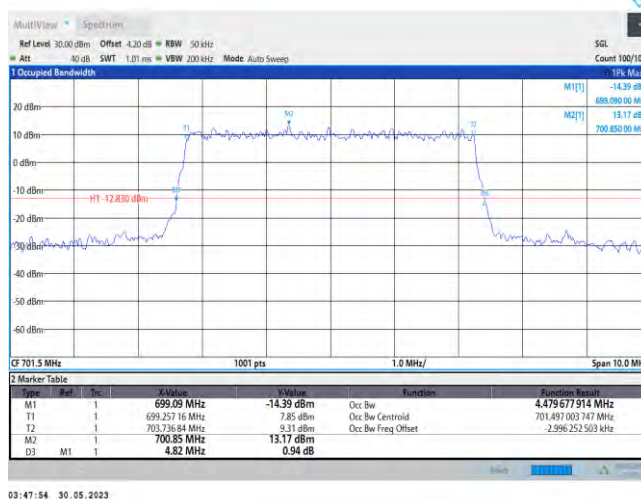
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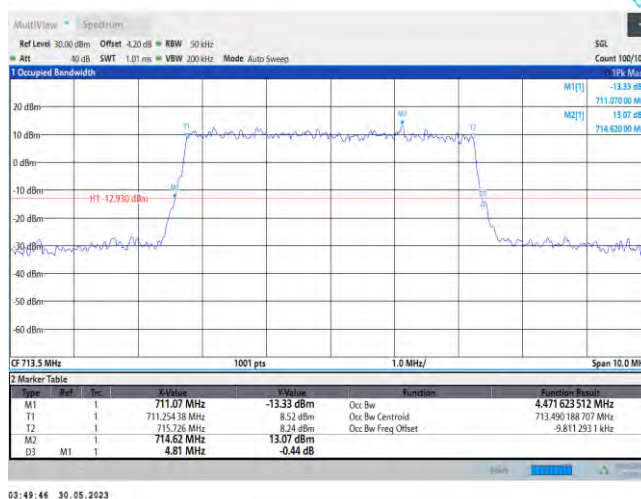
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### Band12-5MHz-64QAM-23155-25RB#0



### Band12-5MHz-256QAM-23035-25RB#0



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### Band12-5MHz-256QAM-23155-25RB#0



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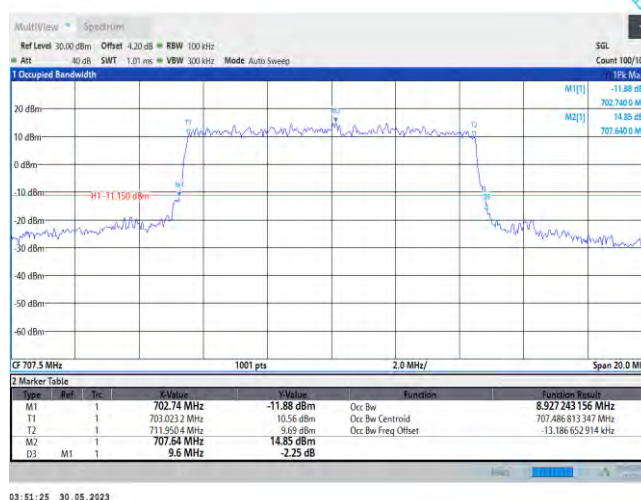
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### Band12-10MHz-QPSK-23060-50RB#0



### Band12-10MHz-QPSK-23095-50RB#0



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03:52:23 30.05.2023

### Band12-10MHz-16QAM-23060-50RB#0



03:50:41 30.05.2023



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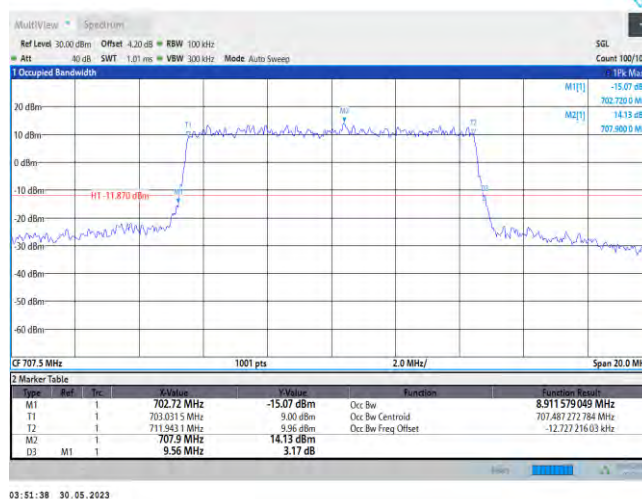
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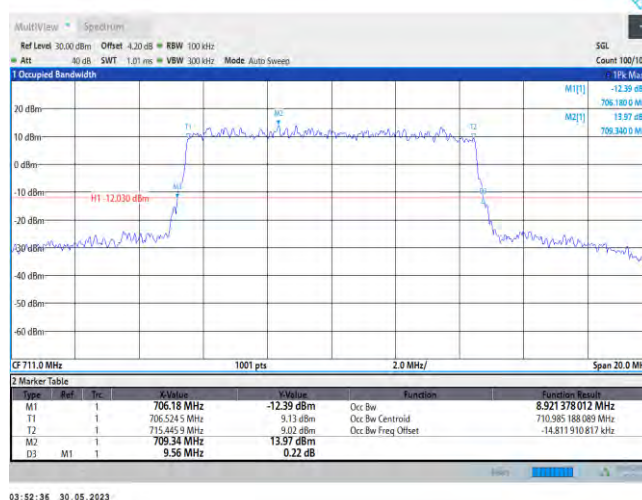
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03:52:36 30.05.2023



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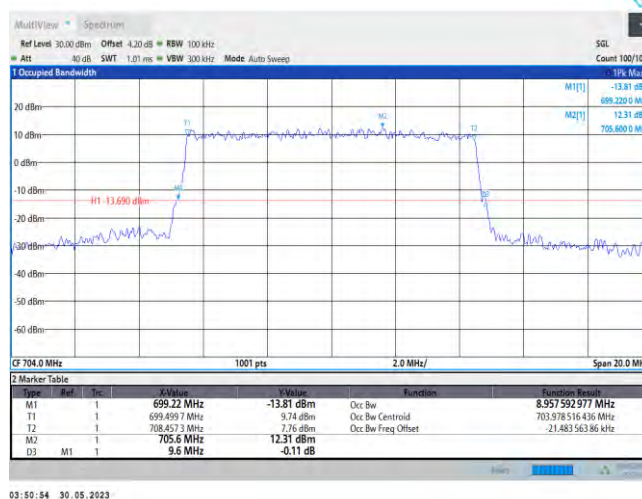
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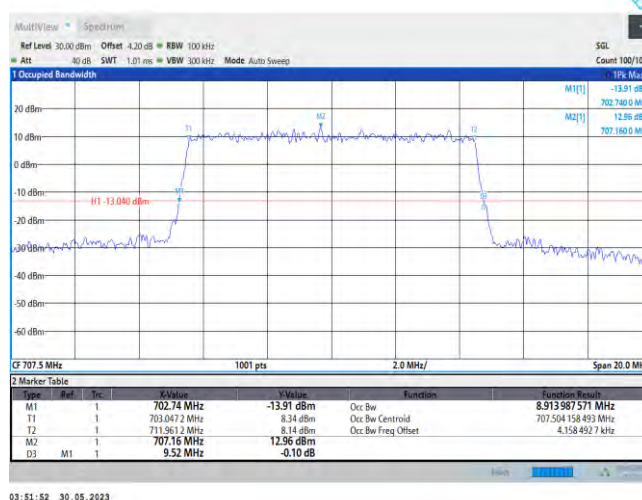
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### Band12-10MHz-64QAM-23060-50RB#0



### Band12-10MHz-64QAM-23095-50RB#0



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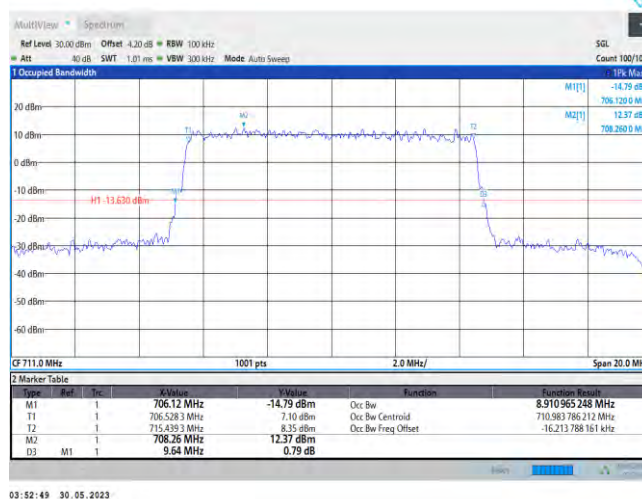
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### Band12-10MHz-64QAM-23130-50RB#0



### Band12-10MHz-256QAM-23060-50RB#0



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### Band12-10MHz-256QAM-23130-50RB#0



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### Test Graphs

Band12-1.4MHz-QPSK-23017-1RB#0



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### Band12-1.4MHz-QPSK-23173-1RB#5



04:01:52 30.05.2023

### Band12-1.4MHz-QPSK-23173-6RB#0



04:04:36 30.05.2023



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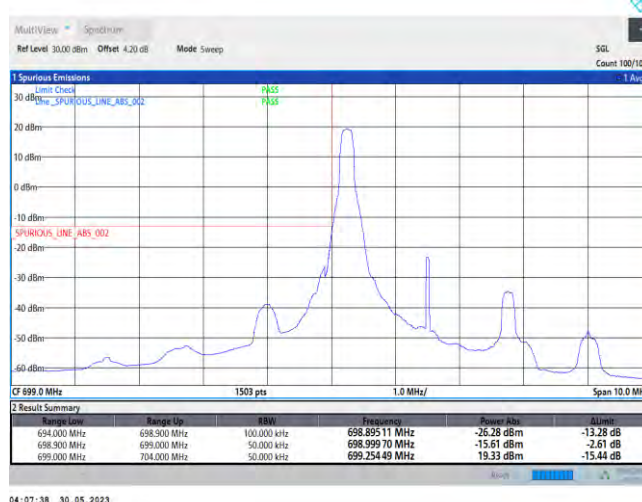
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### Band12-3MHz-QPSK-23025-15RB#0



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### Band12-3MHz-QPSK-23165-15RB#0



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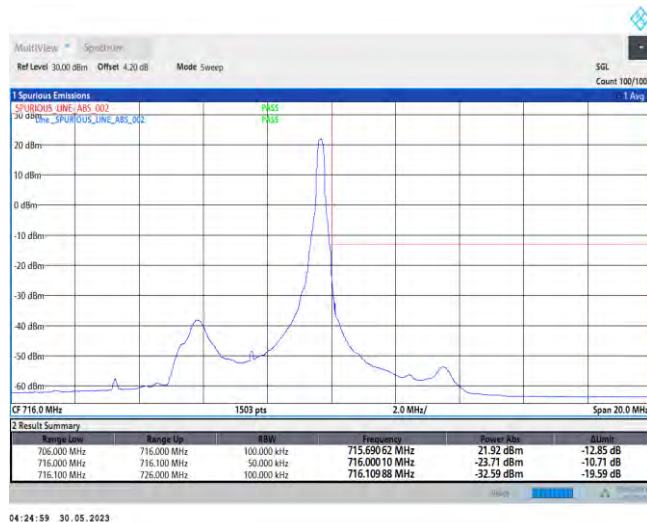
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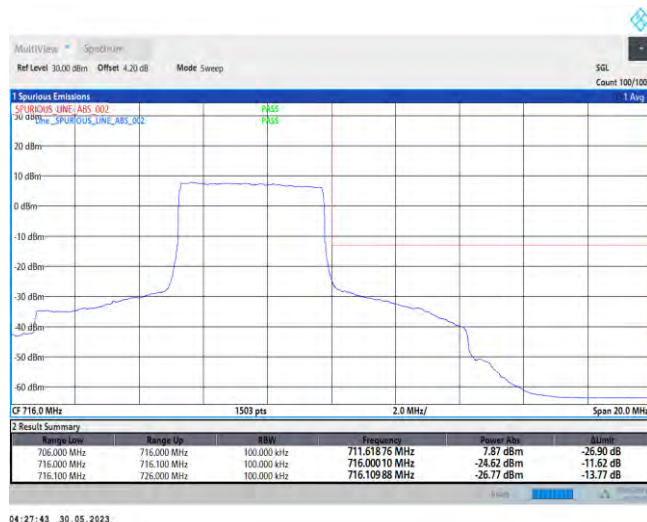
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### Band12-5MHz-QPSK-23155-1RB#24



### Band12-5MHz-QPSK-23155-25RB#0



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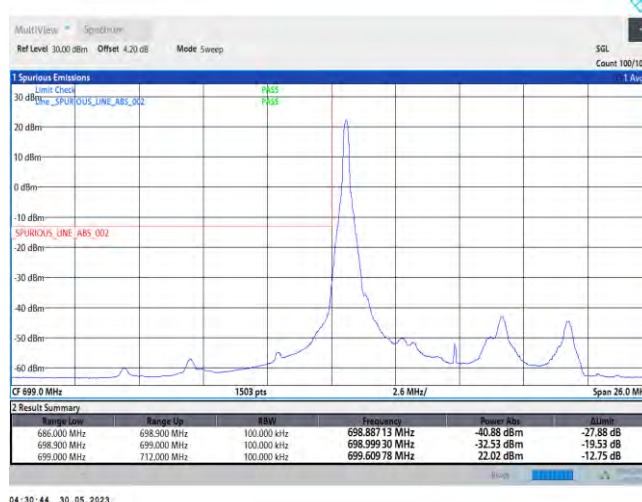
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### Band12-10MHz-QPSK-23060-1RB#0



04:30:44 30.05.2023

### Band12-10MHz-QPSK-23060-50RB#0



04:33:29 30.05.2023



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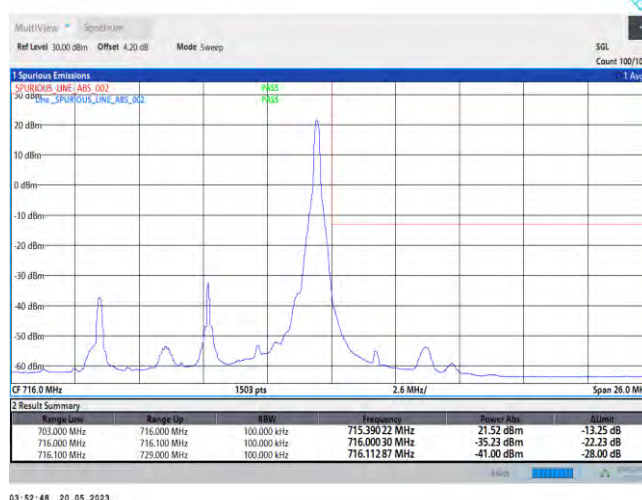
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### Band12-10MHz-QPSK-23130-1RB#49



### Band12-10MHz-QPSK-23130-50RB#0



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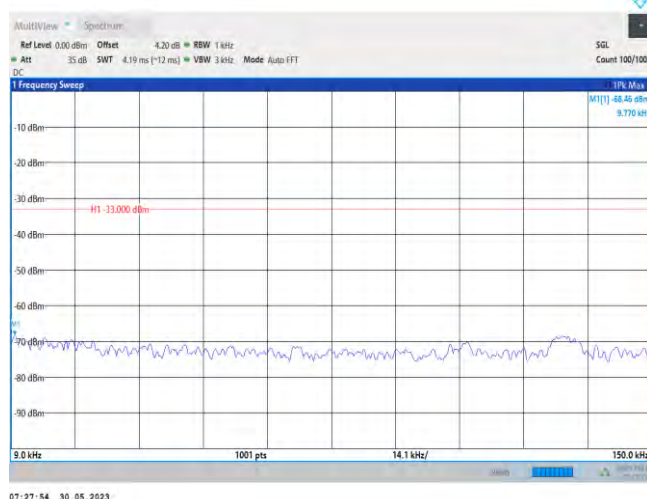
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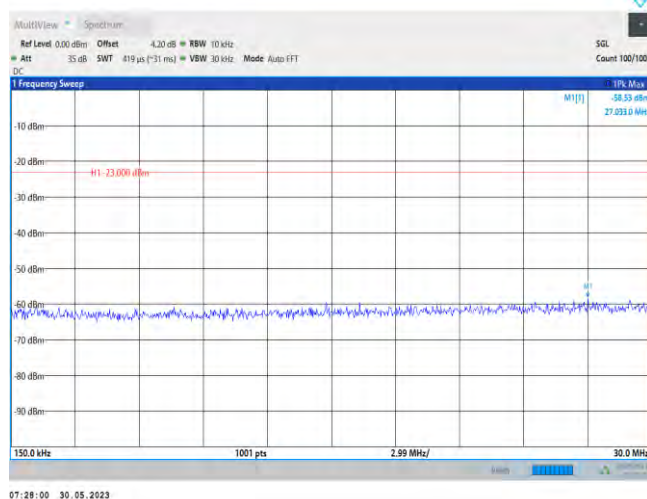
### Conducted Spurious Emission

#### Test Graphs

Band12-10MHz-QPSK-23060-1RB#0-Range1:0.009~0.15MHz



Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz



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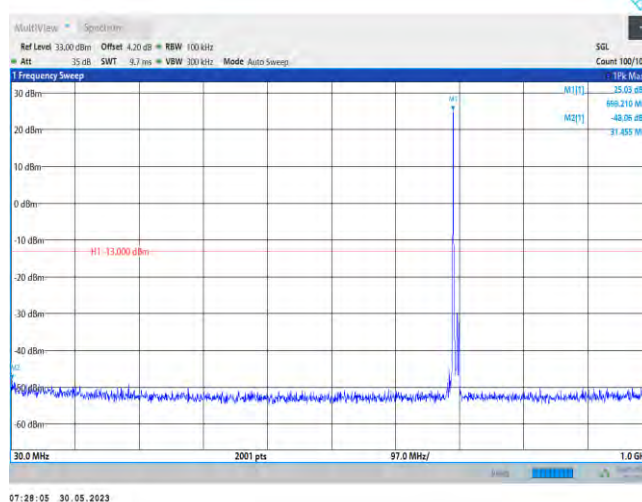
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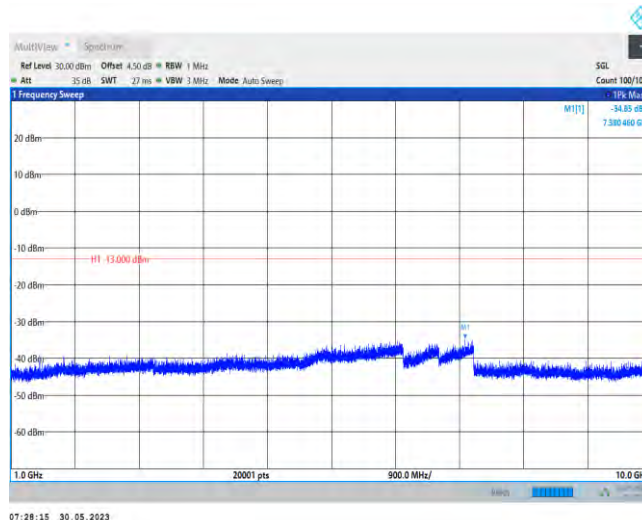
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### Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



### Band12-10MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz



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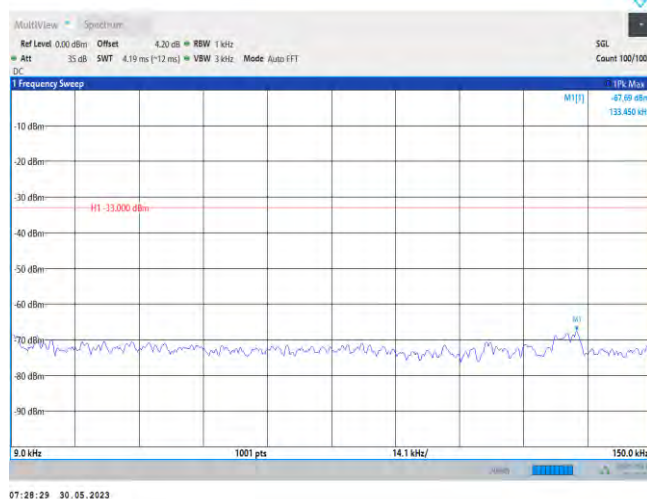
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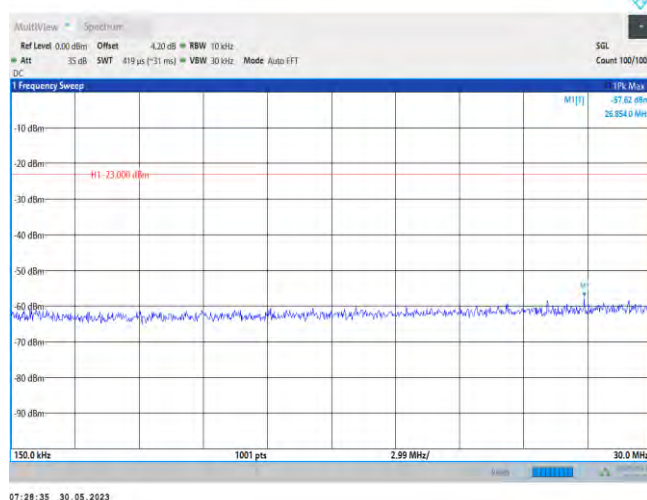
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### Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



### Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



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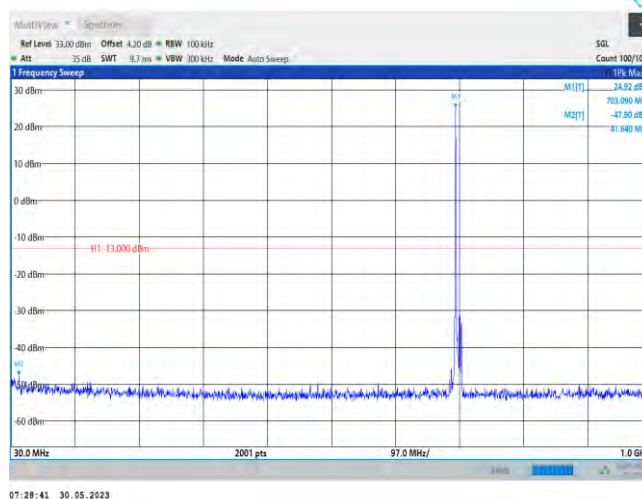
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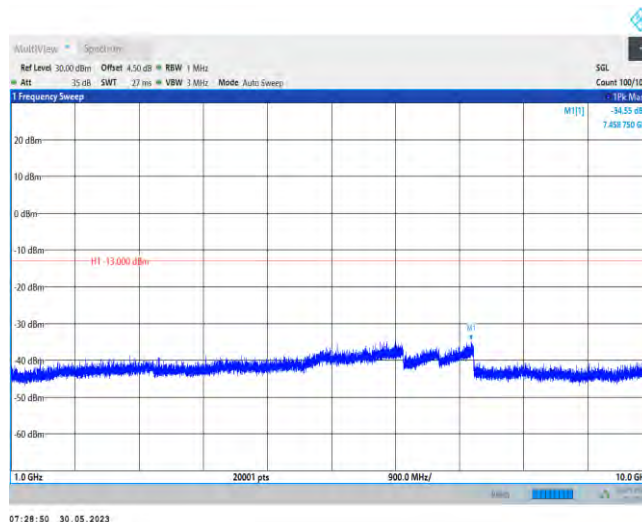
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### Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



### Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz



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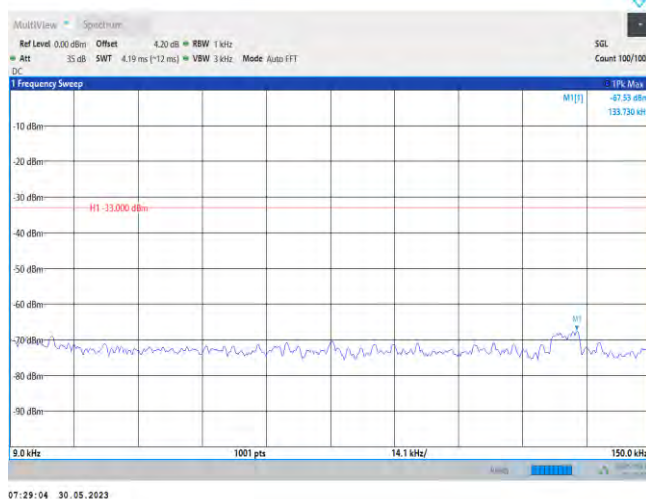
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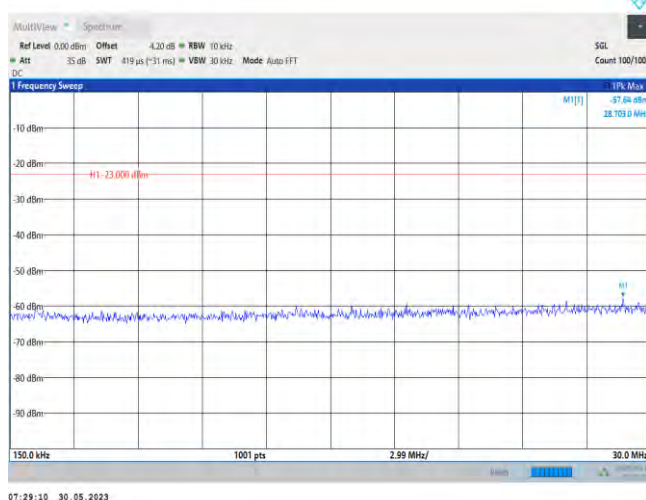
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### Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



### Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz



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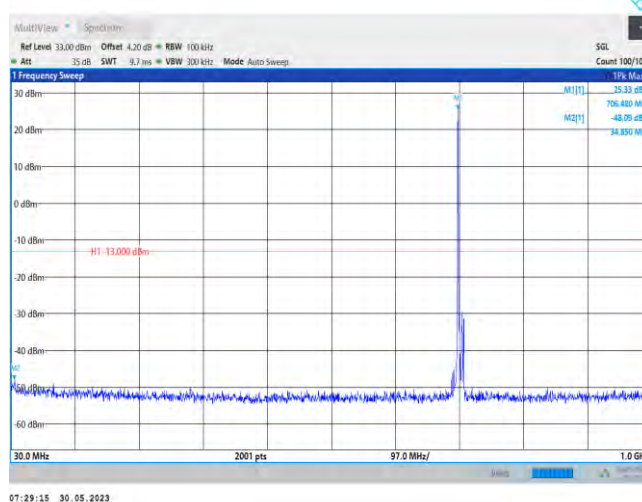
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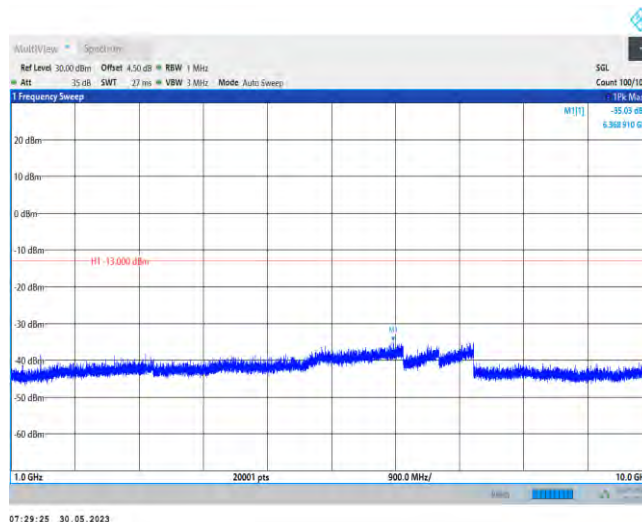
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### Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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## Field Strength of Spurious Radiation

**Test Band = LTE Band 12\_10MHz \_ TM1**
**Test Channel = LOW ANT11**

| Data List |                    |                   |                |          |                |                |                |                |              |            |
|-----------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.       | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1         | 1399.1800          | 44.35             | -48.00         | 25.62    | -73.29         | -13.00         | 60.29          | 145            | 93           | Horizontal |
| 2         | 2098.7700          | 43.14             | -47.71         | 26.99    | -72.85         | -13.00         | 59.85          | 163            | 120          | Horizontal |
| 3         | 2798.3600          | 43.22             | -46.92         | 28.48    | -70.48         | -13.00         | 57.48          | 256            | 359          | Horizontal |
| 4         | 3497.9500          | 42.61             | -46.54         | 29.52    | -69.67         | -13.00         | 56.67          | 199            | 93           | Horizontal |
| 5         | 4197.5400          | 40.78             | -45.96         | 31.10    | -69.34         | -13.00         | 56.34          | 184            | 40           | Horizontal |
| 6         | 4897.1300          | 42.03             | -45.58         | 32.59    | -66.22         | -13.00         | 53.22          | 175            | 360          | Horizontal |

| Data List |                    |                   |                |          |                |                |                |                |              |          |
|-----------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.       | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1         | 1399.1800          | 44.30             | -48.00         | 25.62    | -73.34         | -13.00         | 60.34          | 214            | 295          | Vertical |
| 2         | 2098.7700          | 43.65             | -47.71         | 26.99    | -72.34         | -13.00         | 59.34          | 133            | 320          | Vertical |
| 3         | 2798.3600          | 43.51             | -46.92         | 28.48    | -70.19         | -13.00         | 57.19          | 250            | 334          | Vertical |
| 4         | 3497.9500          | 42.57             | -46.54         | 29.52    | -69.71         | -13.00         | 56.71          | 163            | 55           | Vertical |
| 5         | 4197.5400          | 40.74             | -45.96         | 31.10    | -69.38         | -13.00         | 56.38          | 259            | 108          | Vertical |
| 6         | 4897.1300          | 41.23             | -45.58         | 32.59    | -67.02         | -13.00         | 54.02          | 199            | 108          | Vertical |



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**Test Band = LTE Band 12\_10MHz \_ TM1**
**Test Channel = MID ANT11**

| Data List |                    |                   |                |          |                |                |                |                |              |            |
|-----------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.       | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1         | 1406.1800          | 45.07             | -48.02         | 25.61    | -72.60         | -13.00         | 59.60          | 210            | 184          | Horizontal |
| 2         | 2109.2700          | 43.17             | -47.71         | 27.02    | -72.77         | -13.00         | 59.77          | 120            | 117          | Horizontal |
| 3         | 2812.3600          | 43.15             | -46.88         | 28.53    | -70.45         | -13.00         | 57.45          | 133            | 360          | Horizontal |
| 4         | 3515.4500          | 42.65             | -46.51         | 29.53    | -69.58         | -13.00         | 56.58          | 299            | 360          | Horizontal |
| 5         | 4218.5400          | 40.84             | -45.93         | 31.14    | -69.21         | -13.00         | 56.21          | 148            | 317          | Horizontal |
| 6         | 4921.6300          | 41.32             | -45.63         | 32.66    | -66.91         | -13.00         | 53.91          | 175            | 290          | Horizontal |

| Data List |                    |                   |                |          |                |                |                |                |              |          |
|-----------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.       | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1         | 1406.1800          | 44.30             | -48.02         | 25.61    | -73.37         | -13.00         | 60.37          | 245            | 0            | Vertical |
| 2         | 2109.2700          | 42.88             | -47.71         | 27.02    | -73.06         | -13.00         | 60.06          | 126            | 14           | Vertical |
| 3         | 2812.3600          | 43.17             | -46.88         | 28.53    | -70.43         | -13.00         | 57.43          | 188            | 25           | Vertical |
| 4         | 3515.4500          | 43.04             | -46.51         | 29.53    | -69.19         | -13.00         | 56.19          | 195            | 1            | Vertical |
| 5         | 4218.5400          | 40.89             | -45.93         | 31.14    | -69.16         | -13.00         | 56.16          | 142            | 118          | Vertical |
| 6         | 4921.6300          | 41.60             | -45.63         | 32.66    | -66.63         | -13.00         | 53.63          | 106            | 268          | Vertical |



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Test Band = LTE Band 12\_10MHz \_ TM1

Test Channel = HIGH ANT11

| Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1         | 1413.1800       | 45.06          | -48.04      | 25.60    | -72.64      | -13.00      | 59.64       | 155         | 171       | Horizontal |
| 2         | 2119.7700       | 42.77          | -47.70      | 27.06    | -73.13      | -13.00      | 60.13       | 128         | 4         | Horizontal |
| 3         | 2826.3600       | 42.90          | -46.83      | 28.60    | -70.59      | -13.00      | 57.59       | 148         | 197       | Horizontal |
| 4         | 3532.9500       | 42.37          | -46.47      | 29.55    | -69.81      | -13.00      | 56.81       | 174         | 26        | Horizontal |
| 5         | 4239.5400       | 41.28          | -45.89      | 31.18    | -68.69      | -13.00      | 55.69       | 196         | 357       | Horizontal |
| 6         | 4946.1300       | 41.61          | -45.69      | 32.73    | -66.61      | -13.00      | 53.61       | 153         | 145       | Horizontal |

| Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1         | 1413.1800       | 44.04          | -48.04      | 25.60    | -73.66      | -13.00      | 60.66       | 233         | 334       | Vertical |
| 2         | 2119.7700       | 43.51          | -47.70      | 27.06    | -72.39      | -13.00      | 59.39       | 126         | 280       | Vertical |
| 3         | 2826.3600       | 43.22          | -46.83      | 28.60    | -70.27      | -13.00      | 57.27       | 154         | 4         | Vertical |
| 4         | 3532.9500       | 42.43          | -46.47      | 29.55    | -69.75      | -13.00      | 56.75       | 148         | 29        | Vertical |
| 5         | 4239.5400       | 41.23          | -45.89      | 31.18    | -68.74      | -13.00      | 55.74       | 198         | 214       | Vertical |
| 6         | 4946.1300       | 41.44          | -45.69      | 32.73    | -66.78      | -13.00      | 53.78       | 172         | 320       | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | VL            | NT               | 0.80           | 0.001131        | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | VN            | NT               | 1.70           | 0.002403        | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | VH            | NT               | 0.10           | 0.000141        | PASS    |

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | -30              | -1.00          | -0.001413       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | -20              | 1.00           | 0.001413        | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | -10              | 0.50           | 0.000707        | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 0                | -0.20          | -0.000283       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 10               | 0.30           | 0.000424        | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 20               | -1.20          | -0.001696       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 30               | -0.70          | -0.000989       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 40               | -0.70          | -0.000989       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 50               | 0.50           | 0.000707        | PASS    |

---End of Attachment---



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