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# Appendix B.5

## LTE Band 12



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**Effective (Isotropic) Radiated Power Output Data****Test ResultAnt7**

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|----------|------------|---------|
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#0            | 23.38       | 12.58    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#2            | 23.4        | 12.6     | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#5            | 23.27       | 12.47    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 6RB#0            | 22.46       | 11.66    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#0            | 23.16       | 12.36    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#2            | 23.25       | 12.45    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#5            | 23.37       | 12.57    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 6RB#0            | 22.28       | 11.48    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#0            | 23.43       | 12.63    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#2            | 23.27       | 12.47    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#5            | 23.33       | 12.53    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 6RB#0            | 22.45       | 11.65    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#0            | 22.48       | 11.68    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#2            | 22.48       | 11.68    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#5            | 22.43       | 11.63    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 6RB#0            | 21.43       | 10.63    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#0            | 22.47       | 11.67    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#2            | 22.38       | 11.58    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#5            | 22.49       | 11.69    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 6RB#0            | 21.39       | 10.59    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#0            | 22.41       | 11.61    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#2            | 22.41       | 11.61    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#5            | 22.54       | 11.74    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 6RB#0            | 21.28       | 10.48    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23017   | 1RB#0            | 21.54       | 10.74    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23017   | 1RB#2            | 21.52       | 10.72    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23017   | 1RB#5            | 21.52       | 10.72    | 34.77      | PASS    |



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|--------|--------|--------|-------|--------|-------|-------|-------|------|
| Band12 | 1.4MHz | 64QAM  | 23017 | 6RB#0  | 20.2  | 9.4   | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM  | 23095 | 1RB#0  | 21.48 | 10.68 | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM  | 23095 | 1RB#2  | 21.7  | 10.9  | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM  | 23095 | 1RB#5  | 21.63 | 10.83 | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM  | 23095 | 6RB#0  | 20.39 | 9.59  | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM  | 23173 | 1RB#0  | 21.44 | 10.64 | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM  | 23173 | 1RB#2  | 21.4  | 10.6  | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM  | 23173 | 1RB#5  | 21.48 | 10.68 | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM  | 23173 | 6RB#0  | 20.42 | 9.62  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23017 | 1RB#0  | 18.59 | 7.79  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23017 | 1RB#2  | 18.68 | 7.88  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23017 | 1RB#5  | 18.49 | 7.69  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23017 | 6RB#0  | 18.28 | 7.48  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23095 | 1RB#0  | 18.48 | 7.68  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23095 | 1RB#2  | 18.51 | 7.71  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23095 | 1RB#5  | 18.47 | 7.67  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23095 | 6RB#0  | 18.21 | 7.41  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23173 | 1RB#0  | 18.51 | 7.71  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23173 | 1RB#2  | 18.46 | 7.66  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23173 | 1RB#5  | 18.42 | 7.62  | 34.77 | PASS |
| Band12 | 1.4MHz | 256QAM | 23173 | 6RB#0  | 18.23 | 7.43  | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23025 | 1RB#0  | 23.5  | 12.7  | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23025 | 1RB#8  | 23.37 | 12.57 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23025 | 1RB#14 | 23.33 | 12.53 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23025 | 15RB#0 | 22.31 | 11.51 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23095 | 1RB#0  | 22.9  | 12.1  | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23095 | 1RB#8  | 23.45 | 12.65 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23095 | 1RB#14 | 23.2  | 12.4  | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23095 | 15RB#0 | 22.34 | 11.54 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23165 | 1RB#0  | 23.41 | 12.61 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23165 | 1RB#8  | 23.42 | 12.62 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK   | 23165 | 1RB#14 | 23.27 | 12.47 | 34.77 | PASS |



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| Band12 | 3MHz | QPSK   | 23165 | 15RB#0 | 22.21 | 11.41 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23025 | 1RB#0  | 22.45 | 11.65 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23025 | 1RB#8  | 22.5  | 11.7  | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23025 | 1RB#14 | 22.35 | 11.55 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23025 | 15RB#0 | 21.37 | 10.57 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23095 | 1RB#0  | 22.58 | 11.78 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23095 | 1RB#8  | 22.34 | 11.54 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23095 | 1RB#14 | 22.46 | 11.66 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23095 | 15RB#0 | 21.38 | 10.58 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23165 | 1RB#0  | 22.33 | 11.53 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23165 | 1RB#8  | 22.44 | 11.64 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23165 | 1RB#14 | 22.48 | 11.68 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM  | 23165 | 15RB#0 | 21.36 | 10.56 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23025 | 1RB#0  | 21.46 | 10.66 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23025 | 1RB#8  | 21.48 | 10.68 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23025 | 1RB#14 | 21.44 | 10.64 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23025 | 15RB#0 | 20.51 | 9.71  | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23095 | 1RB#0  | 21.43 | 10.63 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23095 | 1RB#8  | 21.56 | 10.76 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23095 | 1RB#14 | 21.61 | 10.81 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23095 | 15RB#0 | 20.25 | 9.45  | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23165 | 1RB#0  | 21.56 | 10.76 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23165 | 1RB#8  | 21.38 | 10.58 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23165 | 1RB#14 | 21.38 | 10.58 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM  | 23165 | 15RB#0 | 20.33 | 9.53  | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23025 | 1RB#0  | 18.71 | 7.91  | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23025 | 1RB#8  | 18.55 | 7.75  | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23025 | 1RB#14 | 18.51 | 7.71  | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23025 | 15RB#0 | 18.51 | 7.71  | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23095 | 1RB#0  | 18.26 | 7.46  | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23095 | 1RB#8  | 18.4  | 7.6   | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23095 | 1RB#14 | 18.51 | 7.71  | 34.77 | PASS |



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| Band12 | 3MHz | 256QAM | 23095 | 15RB#0 | 18.4  | 7.6   | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23165 | 1RB#0  | 18.45 | 7.65  | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23165 | 1RB#8  | 18.39 | 7.59  | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23165 | 1RB#14 | 18.34 | 7.54  | 34.77 | PASS |
| Band12 | 3MHz | 256QAM | 23165 | 15RB#0 | 18.28 | 7.48  | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23035 | 1RB#0  | 23.51 | 12.71 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23035 | 1RB#12 | 23.47 | 12.67 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23035 | 1RB#24 | 23.28 | 12.48 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23035 | 25RB#0 | 22.29 | 11.49 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23095 | 1RB#0  | 23.23 | 12.43 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23095 | 1RB#12 | 23.5  | 12.7  | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23095 | 1RB#24 | 23.46 | 12.66 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23095 | 25RB#0 | 22.22 | 11.42 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23155 | 1RB#0  | 23.4  | 12.6  | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23155 | 1RB#12 | 23.36 | 12.56 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23155 | 1RB#24 | 23.46 | 12.66 | 34.77 | PASS |
| Band12 | 5MHz | QPSK   | 23155 | 25RB#0 | 22.46 | 11.66 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23035 | 1RB#0  | 22.54 | 11.74 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23035 | 1RB#12 | 22.64 | 11.84 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23035 | 1RB#24 | 22.36 | 11.56 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23035 | 25RB#0 | 21.28 | 10.48 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23095 | 1RB#0  | 22.49 | 11.69 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23095 | 1RB#12 | 22.58 | 11.78 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23095 | 1RB#24 | 22.42 | 11.62 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23095 | 25RB#0 | 21.36 | 10.56 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23155 | 1RB#0  | 22.39 | 11.59 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23155 | 1RB#12 | 22.53 | 11.73 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23155 | 1RB#24 | 22.59 | 11.79 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM  | 23155 | 25RB#0 | 21.4  | 10.6  | 34.77 | PASS |
| Band12 | 5MHz | 64QAM  | 23035 | 1RB#0  | 21.63 | 10.83 | 34.77 | PASS |
| Band12 | 5MHz | 64QAM  | 23035 | 1RB#12 | 21.6  | 10.8  | 34.77 | PASS |
| Band12 | 5MHz | 64QAM  | 23035 | 1RB#24 | 21.52 | 10.72 | 34.77 | PASS |



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| Band12 | 5MHz  | 64QAM  | 23035 | 25RB#0 | 20.37 | 9.57  | 34.77 | PASS |
| Band12 | 5MHz  | 64QAM  | 23095 | 1RB#0  | 21.52 | 10.72 | 34.77 | PASS |
| Band12 | 5MHz  | 64QAM  | 23095 | 1RB#12 | 21.51 | 10.71 | 34.77 | PASS |
| Band12 | 5MHz  | 64QAM  | 23095 | 1RB#24 | 21.45 | 10.65 | 34.77 | PASS |
| Band12 | 5MHz  | 64QAM  | 23095 | 25RB#0 | 20.29 | 9.49  | 34.77 | PASS |
| Band12 | 5MHz  | 64QAM  | 23155 | 1RB#0  | 21.51 | 10.71 | 34.77 | PASS |
| Band12 | 5MHz  | 64QAM  | 23155 | 1RB#12 | 21.56 | 10.76 | 34.77 | PASS |
| Band12 | 5MHz  | 64QAM  | 23155 | 1RB#24 | 21.45 | 10.65 | 34.77 | PASS |
| Band12 | 5MHz  | 64QAM  | 23155 | 25RB#0 | 20.34 | 9.54  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23035 | 1RB#0  | 18.65 | 7.85  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23035 | 1RB#12 | 18.51 | 7.71  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23035 | 1RB#24 | 18.43 | 7.63  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23035 | 25RB#0 | 18.44 | 7.64  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23095 | 1RB#0  | 18.42 | 7.62  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23095 | 1RB#12 | 18.61 | 7.81  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23095 | 1RB#24 | 18.6  | 7.8   | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23095 | 25RB#0 | 18.35 | 7.55  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23155 | 1RB#0  | 18.63 | 7.83  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23155 | 1RB#12 | 18.39 | 7.59  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23155 | 1RB#24 | 18.55 | 7.75  | 34.77 | PASS |
| Band12 | 5MHz  | 256QAM | 23155 | 25RB#0 | 18.36 | 7.56  | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23060 | 1RB#0  | 23.48 | 12.68 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23060 | 1RB#24 | 23.35 | 12.55 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23060 | 1RB#49 | 23.24 | 12.44 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23060 | 50RB#0 | 22.34 | 11.54 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23095 | 1RB#0  | 23.48 | 12.68 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23095 | 1RB#24 | 23.44 | 12.64 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23095 | 1RB#49 | 23.41 | 12.61 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23095 | 50RB#0 | 22.27 | 11.47 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23130 | 1RB#0  | 23.59 | 12.79 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23130 | 1RB#24 | 23.36 | 12.56 | 34.77 | PASS |
| Band12 | 10MHz | QPSK   | 23130 | 1RB#49 | 23.28 | 12.48 | 34.77 | PASS |



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|--------|-------|--------|-------|--------|-------|-------|-------|------|
| Band12 | 10MHz | QPSK   | 23130 | 50RB#0 | 22.44 | 11.64 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23060 | 1RB#0  | 22.61 | 11.81 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23060 | 1RB#24 | 22.43 | 11.63 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23060 | 1RB#49 | 22.56 | 11.76 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23060 | 50RB#0 | 21.4  | 10.6  | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23095 | 1RB#0  | 22.44 | 11.64 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23095 | 1RB#24 | 22.52 | 11.72 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23095 | 1RB#49 | 22.43 | 11.63 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23095 | 50RB#0 | 21.16 | 10.36 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23130 | 1RB#0  | 22.45 | 11.65 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23130 | 1RB#24 | 22.45 | 11.65 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23130 | 1RB#49 | 22.48 | 11.68 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM  | 23130 | 50RB#0 | 21.25 | 10.45 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23060 | 1RB#0  | 21.65 | 10.85 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23060 | 1RB#24 | 21.4  | 10.6  | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23060 | 1RB#49 | 21.56 | 10.76 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23060 | 50RB#0 | 20.27 | 9.47  | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23095 | 1RB#0  | 21.52 | 10.72 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23095 | 1RB#24 | 21.58 | 10.78 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23095 | 1RB#49 | 21.58 | 10.78 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23095 | 50RB#0 | 20.17 | 9.37  | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23130 | 1RB#0  | 21.69 | 10.89 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23130 | 1RB#24 | 21.67 | 10.87 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23130 | 1RB#49 | 21.41 | 10.61 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM  | 23130 | 50RB#0 | 20.33 | 9.53  | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23060 | 1RB#0  | 18.59 | 7.79  | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23060 | 1RB#24 | 18.5  | 7.7   | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23060 | 1RB#49 | 18.48 | 7.68  | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23060 | 50RB#0 | 18.38 | 7.58  | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23095 | 1RB#0  | 18.38 | 7.58  | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23095 | 1RB#24 | 18.55 | 7.75  | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23095 | 1RB#49 | 18.62 | 7.82  | 34.77 | PASS |



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|--------|-------|--------|-------|--------|-------|------|-------|------|
| Band12 | 10MHz | 256QAM | 23095 | 50RB#0 | 18.31 | 7.51 | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23130 | 1RB#0  | 18.44 | 7.64 | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23130 | 1RB#24 | 18.54 | 7.74 | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23130 | 1RB#49 | 18.42 | 7.62 | 34.77 | PASS |
| Band12 | 10MHz | 256QAM | 23130 | 50RB#0 | 18.36 | 7.56 | 34.77 | PASS |



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## Peak-to-Average Ratio(CCDF)

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band12 | 10MHz     | QPSK       | 23060   | 50RB#0           | 5.30       | 13        | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0           | 5.20       | 13        | PASS    |
| Band12 | 10MHz     | QPSK       | 23130   | 50RB#0           | 5.32       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23060   | 50RB#0           | 6.04       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23095   | 50RB#0           | 6.04       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23130   | 50RB#0           | 6.08       | 13        | PASS    |
| Band12 | 10MHz     | 64QAM      | 23060   | 50RB#0           | 6.38       | 13        | PASS    |
| Band12 | 10MHz     | 64QAM      | 23095   | 50RB#0           | 6.28       | 13        | PASS    |
| Band12 | 10MHz     | 64QAM      | 23130   | 50RB#0           | 6.36       | 13        | PASS    |
| Band12 | 10MHz     | 256QAM     | 23060   | 50RB#0           | 6.30       | 13        | PASS    |
| Band12 | 10MHz     | 256QAM     | 23095   | 50RB#0           | 6.32       | 13        | PASS    |
| Band12 | 10MHz     | 256QAM     | 23130   | 50RB#0           | 6.30       | 13        | PASS    |



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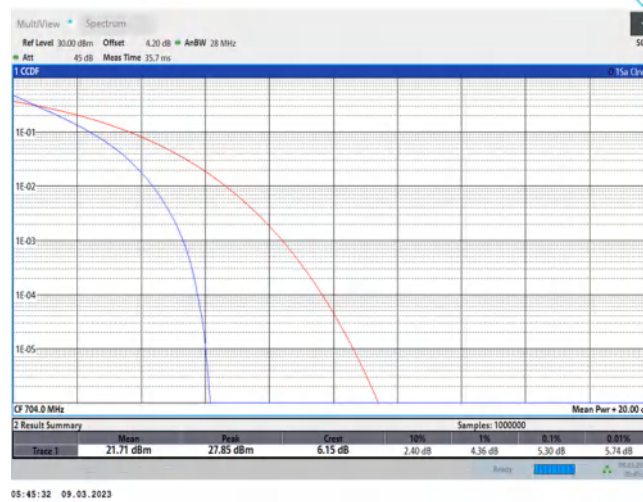
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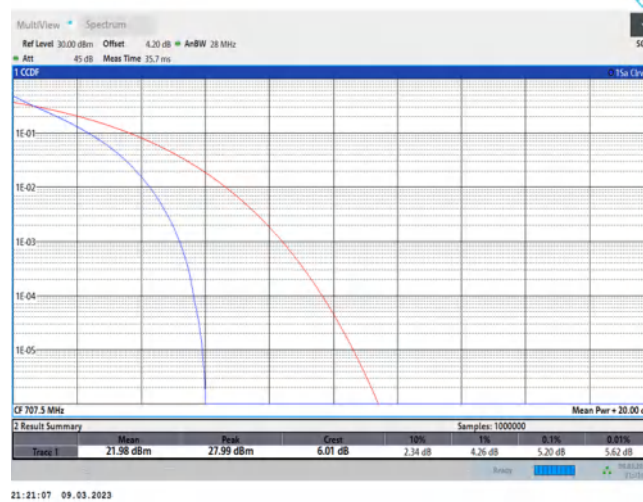
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## Test Graphs

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



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



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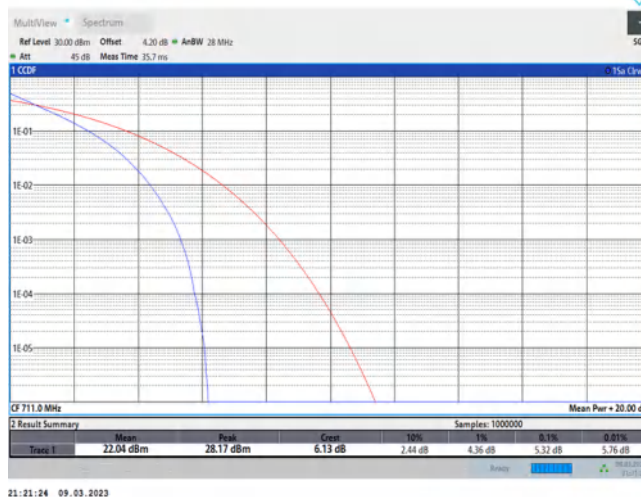
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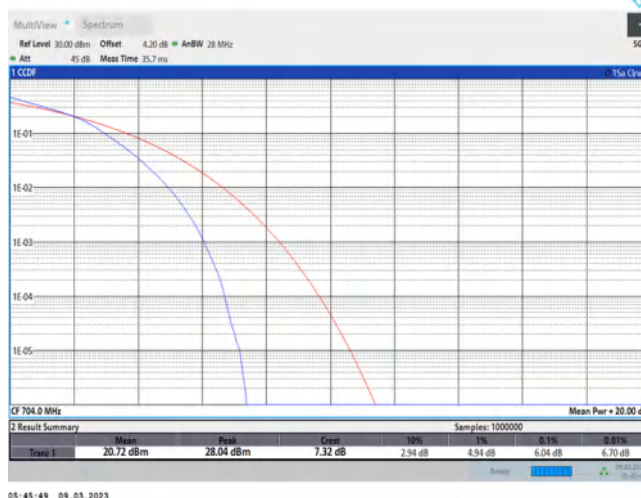
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21:21:24 09.03.2023

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



08:48:49 09.03.2023



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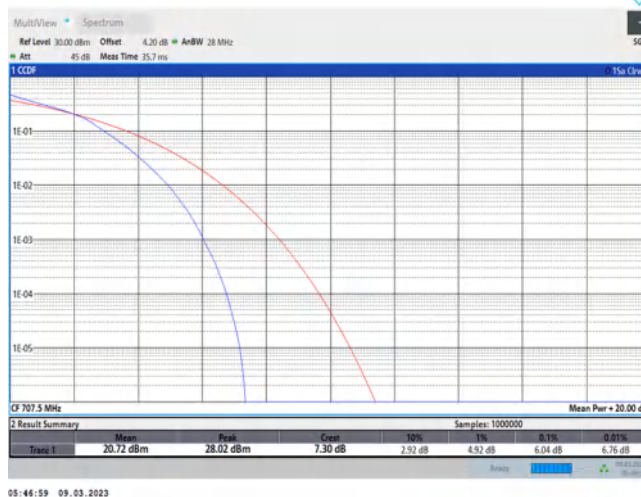
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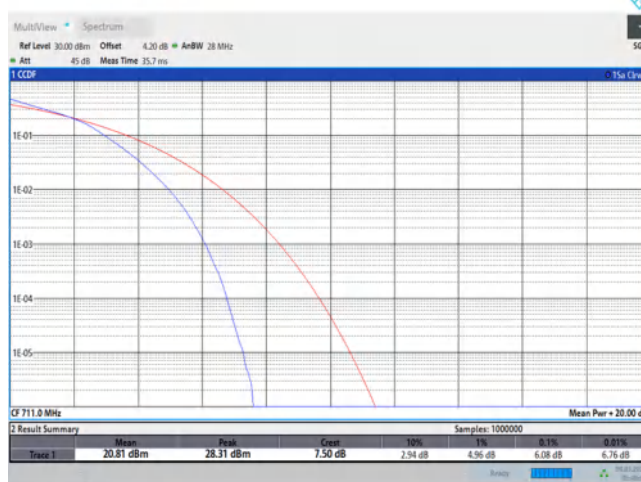
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### Band12-10MHz-16QAM-23095-50RB#0



08:46:59 09.03.2023

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



08:48:09 09.03.2023



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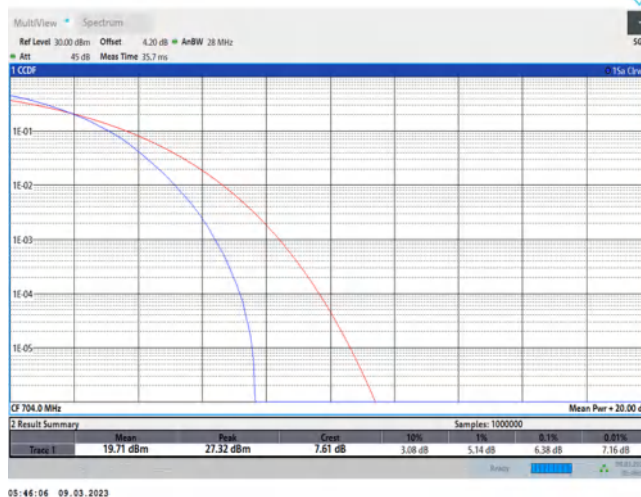
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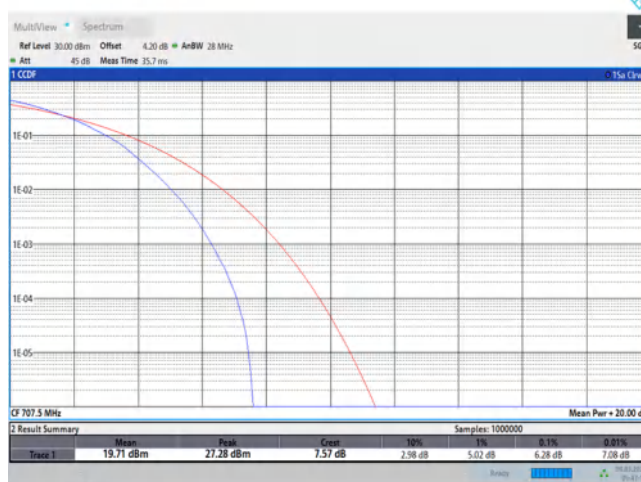
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### Band12-10MHz-64QAM-23060-50RB#0



08:46:06 09.03.2023

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



08:47:16 09.03.2023



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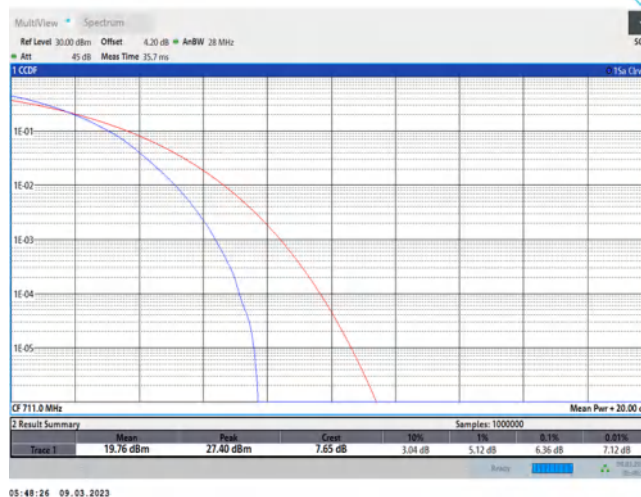
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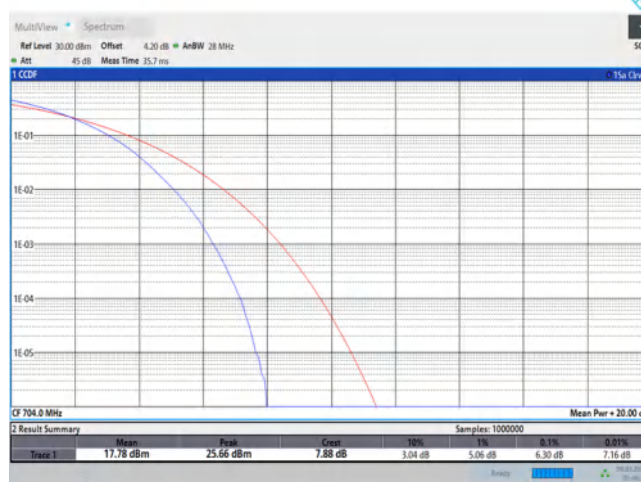
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### Band12-10MHz-64QAM-23130-50RB#0



08:48:26 09.03.2023

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



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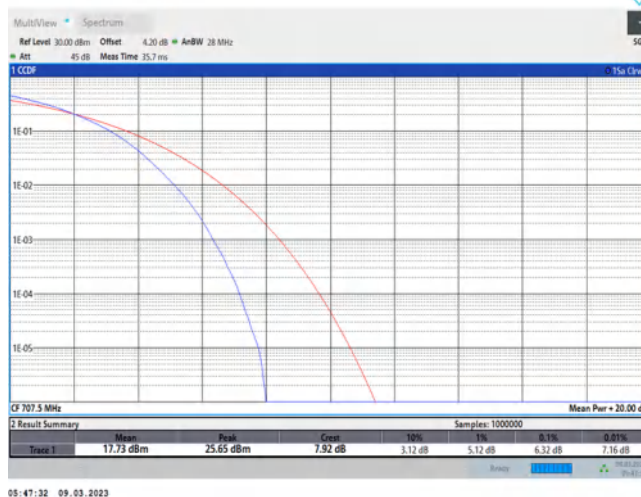
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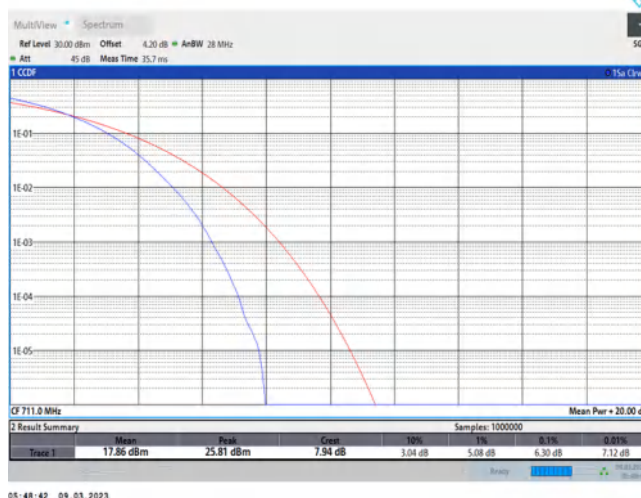
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### Band12-10MHz-256QAM-23095-50RB#0



### Band12-10MHz-256QAM-23130-50RB#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            | 1.093                    | 1.28                 | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 6RB#0            | 1.095                    | 1.28                 | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 6RB#0            | 1.096                    | 1.28                 | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 6RB#0            | 1.094                    | 1.31                 | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 6RB#0            | 1.096                    | 1.31                 | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 6RB#0            | 1.097                    | 1.31                 | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23017   | 6RB#0            | 1.096                    | 1.31                 | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23095   | 6RB#0            | 1.095                    | 1.31                 | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23173   | 6RB#0            | 1.094                    | 1.31                 | PASS    |
| Band12 | 1.4MHz    | 256QAM     | 23017   | 6RB#0            | 1.086                    | 1.28                 | PASS    |
| Band12 | 1.4MHz    | 256QAM     | 23095   | 6RB#0            | 1.086                    | 1.28                 | PASS    |
| Band12 | 1.4MHz    | 256QAM     | 23173   | 6RB#0            | 1.087                    | 1.28                 | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 15RB#0           | 2.698                    | 2.93                 | PASS    |
| Band12 | 3MHz      | QPSK       | 23095   | 15RB#0           | 2.699                    | 2.96                 | PASS    |
| Band12 | 3MHz      | QPSK       | 23165   | 15RB#0           | 2.693                    | 2.93                 | PASS    |
| Band12 | 3MHz      | 16QAM      | 23025   | 15RB#0           | 2.694                    | 2.93                 | PASS    |
| Band12 | 3MHz      | 16QAM      | 23095   | 15RB#0           | 2.693                    | 2.93                 | PASS    |
| Band12 | 3MHz      | 16QAM      | 23165   | 15RB#0           | 2.69                     | 2.92                 | PASS    |
| Band12 | 3MHz      | 64QAM      | 23025   | 15RB#0           | 2.691                    | 2.93                 | PASS    |
| Band12 | 3MHz      | 64QAM      | 23095   | 15RB#0           | 2.689                    | 2.93                 | PASS    |
| Band12 | 3MHz      | 64QAM      | 23165   | 15RB#0           | 2.691                    | 2.93                 | PASS    |
| Band12 | 3MHz      | 256QAM     | 23025   | 15RB#0           | 2.689                    | 2.94                 | PASS    |
| Band12 | 3MHz      | 256QAM     | 23095   | 15RB#0           | 2.691                    | 2.94                 | PASS    |
| Band12 | 3MHz      | 256QAM     | 23165   | 15RB#0           | 2.69                     | 2.95                 | PASS    |
| Band12 | 5MHz      | QPSK       | 23035   | 25RB#0           | 4.46                     | 4.96                 | PASS    |
| Band12 | 5MHz      | QPSK       | 23095   | 25RB#0           | 4.46                     | 4.86                 | PASS    |
| Band12 | 5MHz      | QPSK       | 23155   | 25RB#0           | 4.463                    | 4.83                 | PASS    |
| Band12 | 5MHz      | 16QAM      | 23035   | 25RB#0           | 4.464                    | 4.83                 | PASS    |
| Band12 | 5MHz      | 16QAM      | 23095   | 25RB#0           | 4.461                    | 4.84                 | PASS    |



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|        |       |        |       |        |       |      |      |
|--------|-------|--------|-------|--------|-------|------|------|
| Band12 | 5MHz  | 16QAM  | 23155 | 25RB#0 | 4.461 | 4.82 | PASS |
| Band12 | 5MHz  | 64QAM  | 23035 | 25RB#0 | 4.467 | 4.87 | PASS |
| Band12 | 5MHz  | 64QAM  | 23095 | 25RB#0 | 4.466 | 4.86 | PASS |
| Band12 | 5MHz  | 64QAM  | 23155 | 25RB#0 | 4.467 | 4.86 | PASS |
| Band12 | 5MHz  | 256QAM | 23035 | 25RB#0 | 4.466 | 4.83 | PASS |
| Band12 | 5MHz  | 256QAM | 23095 | 25RB#0 | 4.467 | 4.82 | PASS |
| Band12 | 5MHz  | 256QAM | 23155 | 25RB#0 | 4.464 | 4.83 | PASS |
| Band12 | 10MHz | QPSK   | 23060 | 50RB#0 | 8.929 | 9.62 | PASS |
| Band12 | 10MHz | QPSK   | 23095 | 50RB#0 | 8.922 | 9.58 | PASS |
| Band12 | 10MHz | QPSK   | 23130 | 50RB#0 | 8.931 | 9.64 | PASS |
| Band12 | 10MHz | 16QAM  | 23060 | 50RB#0 | 8.922 | 9.66 | PASS |
| Band12 | 10MHz | 16QAM  | 23095 | 50RB#0 | 8.908 | 9.68 | PASS |
| Band12 | 10MHz | 16QAM  | 23130 | 50RB#0 | 8.914 | 9.98 | PASS |
| Band12 | 10MHz | 64QAM  | 23060 | 50RB#0 | 8.941 | 9.60 | PASS |
| Band12 | 10MHz | 64QAM  | 23095 | 50RB#0 | 8.921 | 9.68 | PASS |
| Band12 | 10MHz | 64QAM  | 23130 | 50RB#0 | 8.927 | 9.62 | PASS |
| Band12 | 10MHz | 256QAM | 23060 | 50RB#0 | 8.917 | 9.56 | PASS |
| Band12 | 10MHz | 256QAM | 23095 | 50RB#0 | 8.922 | 9.50 | PASS |
| Band12 | 10MHz | 256QAM | 23130 | 50RB#0 | 8.915 | 9.80 | PASS |



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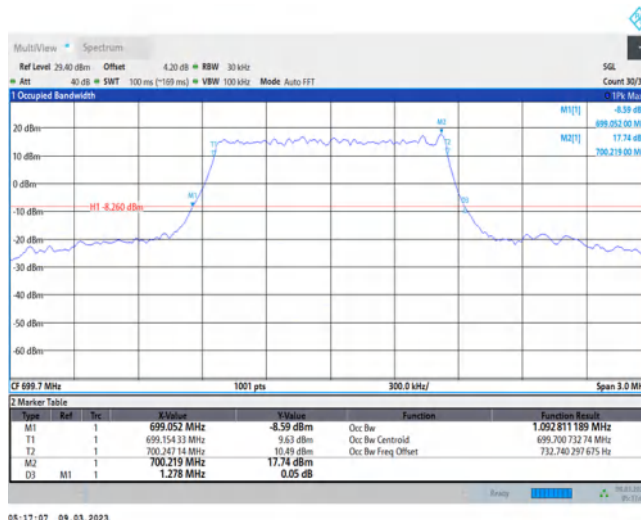
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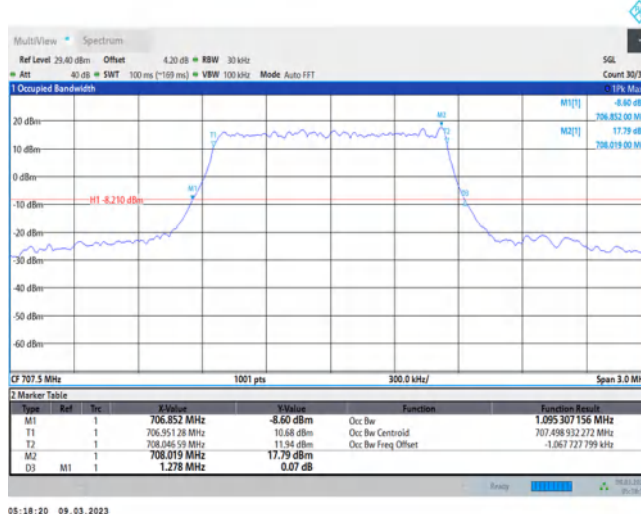
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### Test Graphs

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



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



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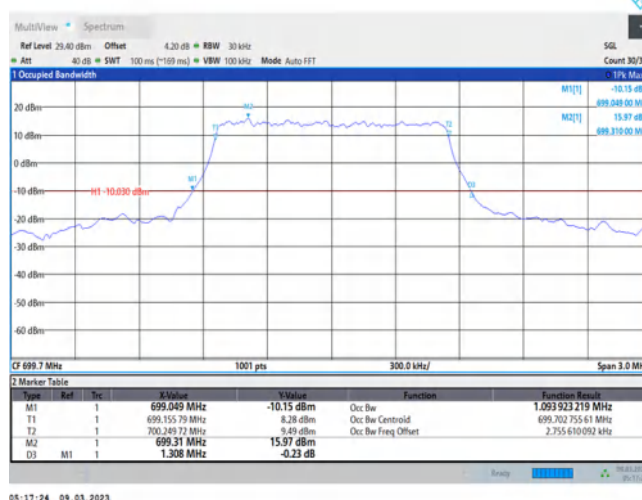
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### Band12-1.4MHz-QPSK-23173-6RB#0



### Band12-1.4MHz-16QAM-23017-6RB#0



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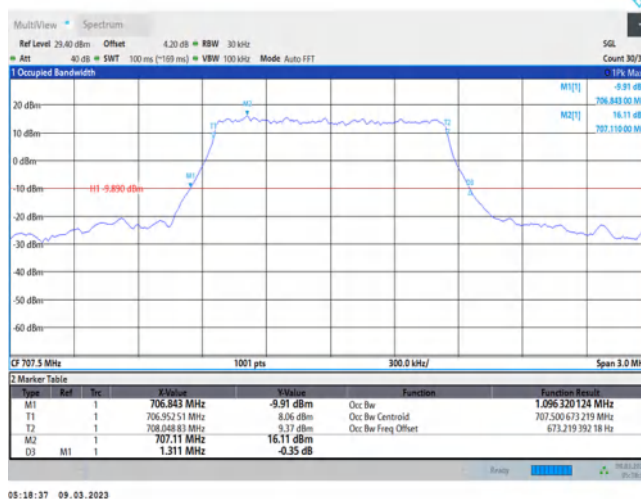
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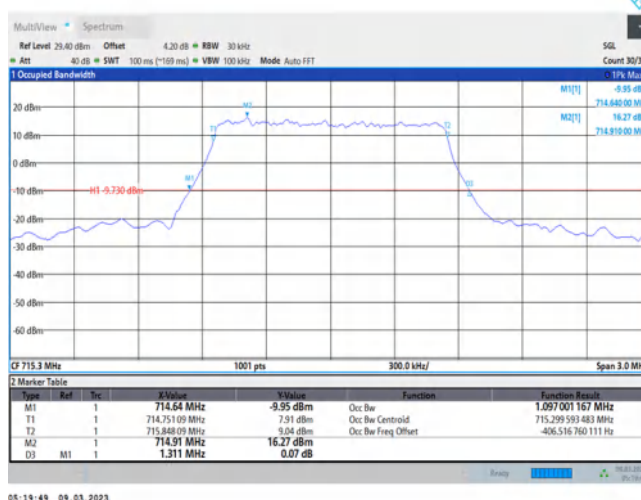
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### Band12-1.4MHz-16QAM-23095-6RB#0



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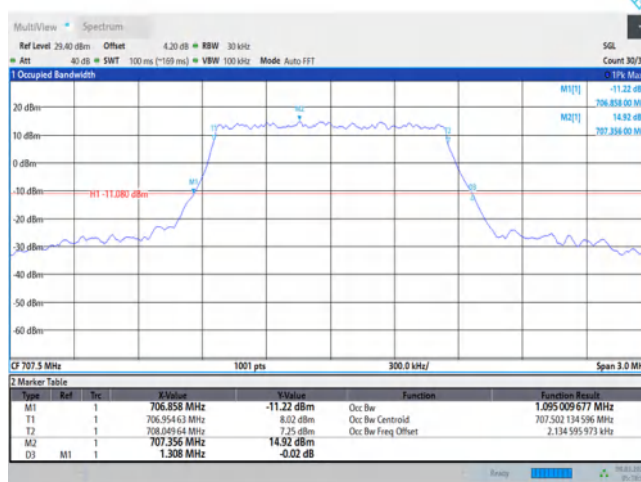
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### Band12-1.4MHz-64QAM-23017-6RB#0



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



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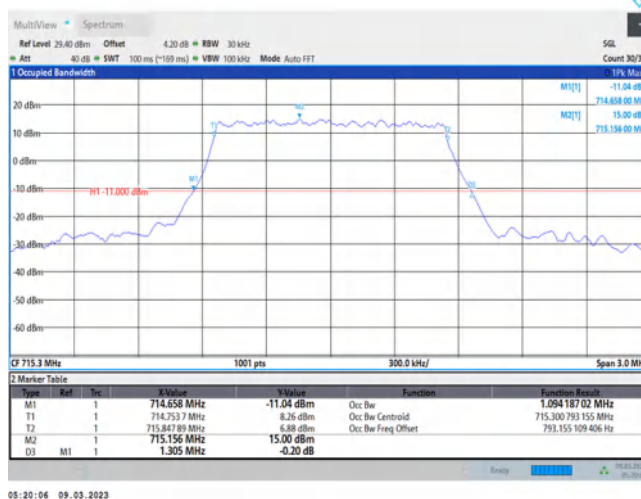
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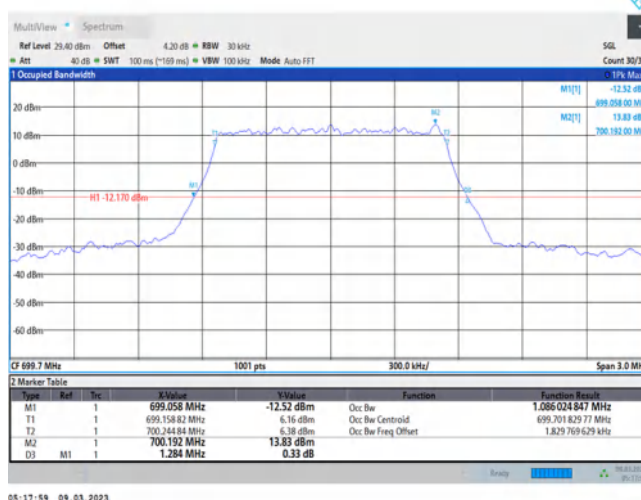
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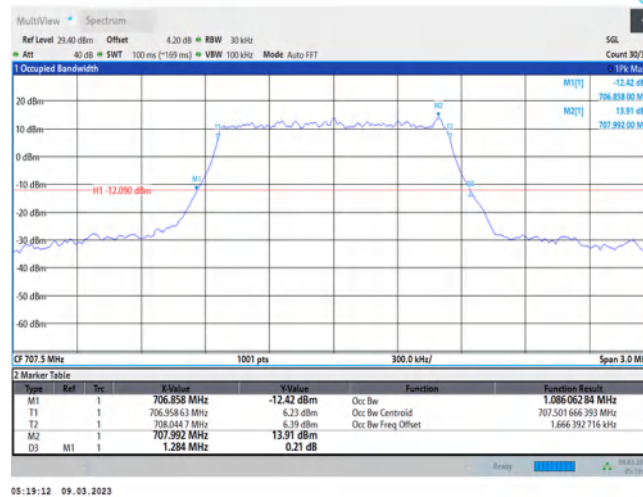
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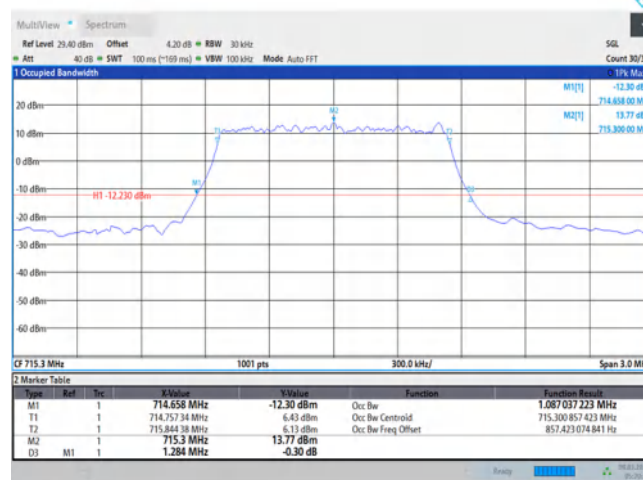
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### Band12-1.4MHz-256QAM-23095-6RB#0



08:19:12 09.03.2023

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08:20:23 09.03.2023



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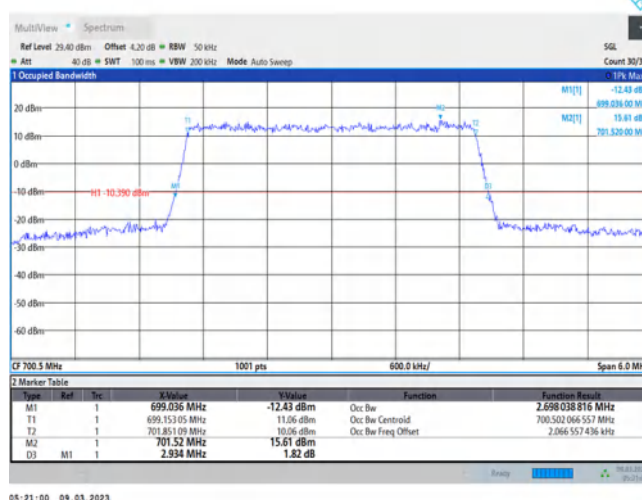
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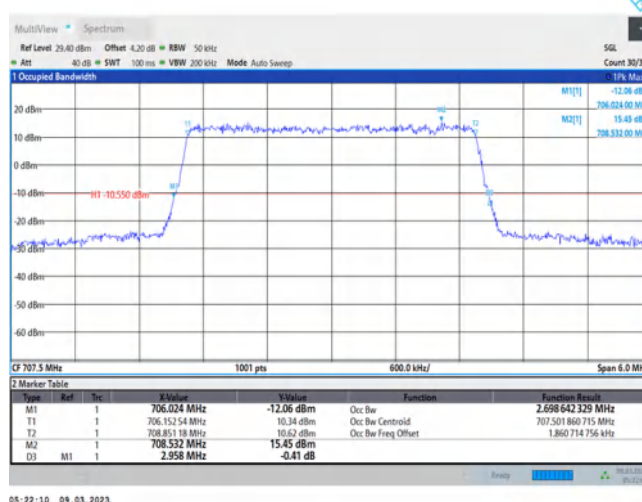
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### Band12-3MHz-QPSK-23025-15RB#0



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



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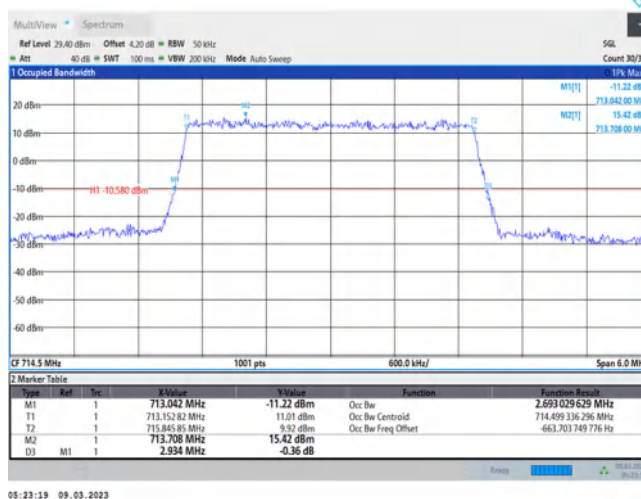
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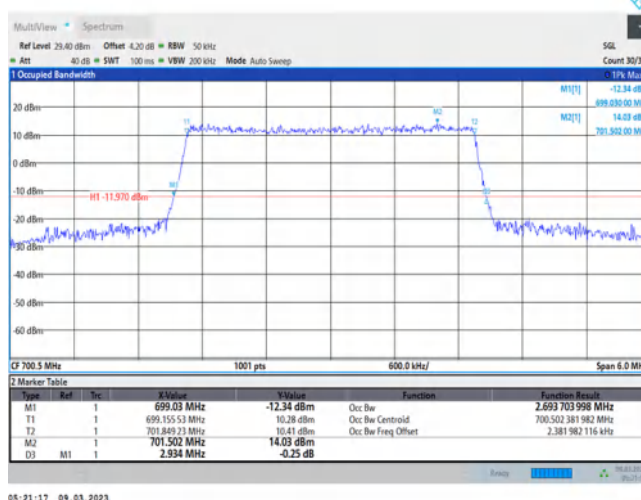
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### Band12-3MHz-QPSK-23165-15RB#0



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



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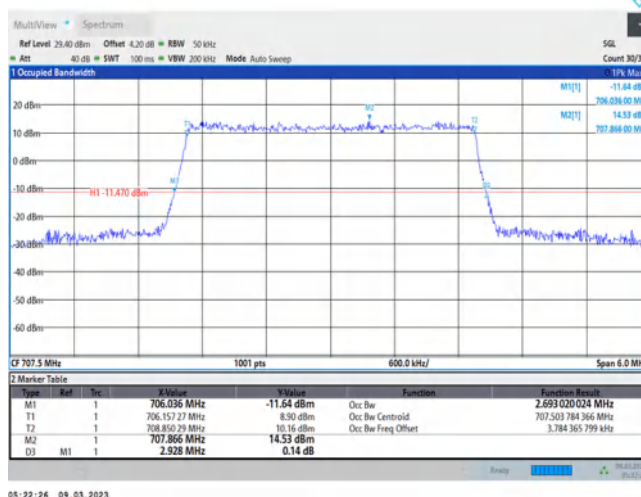
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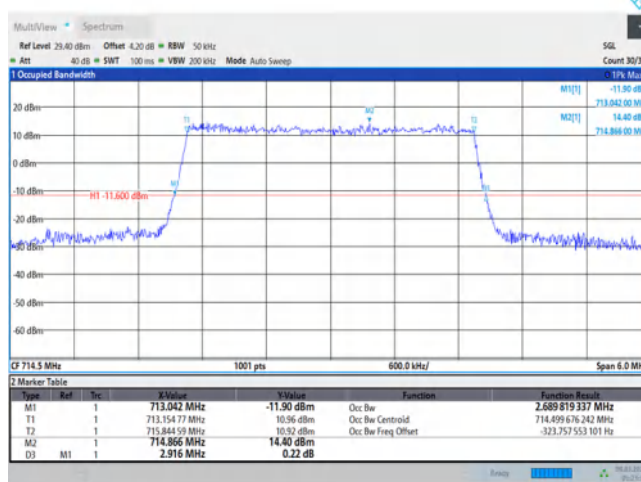
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08:22:26 09.03.2023

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



08:23:35 09.03.2023



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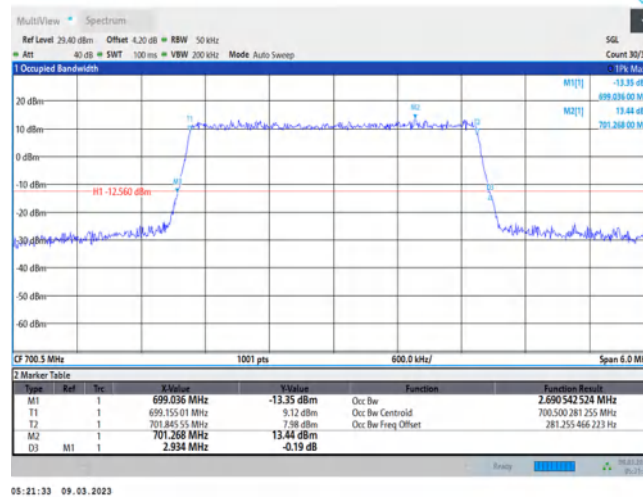
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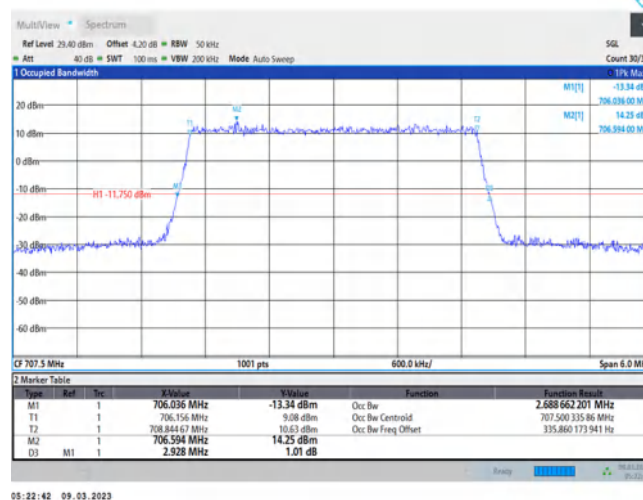
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### Band12-3MHz-64QAM-23025-15RB#0



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



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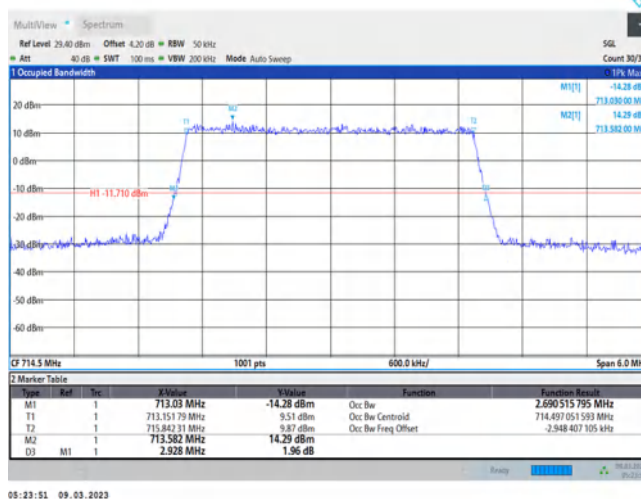
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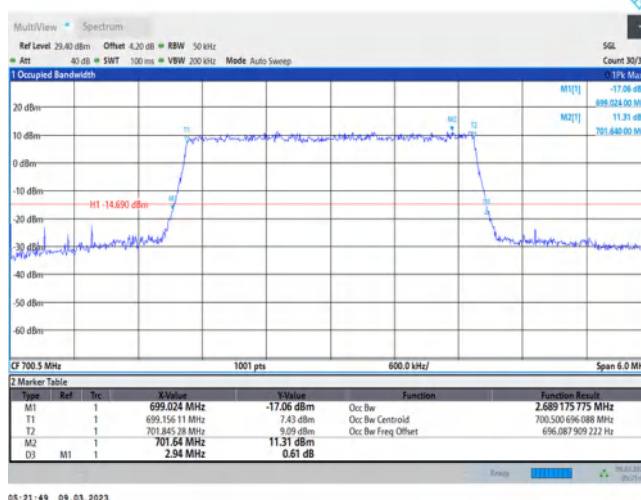
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### Band12-3MHz-64QAM-23165-15RB#0



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



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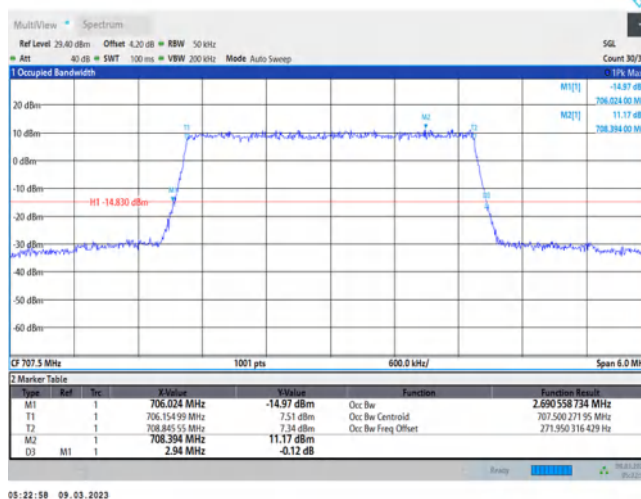
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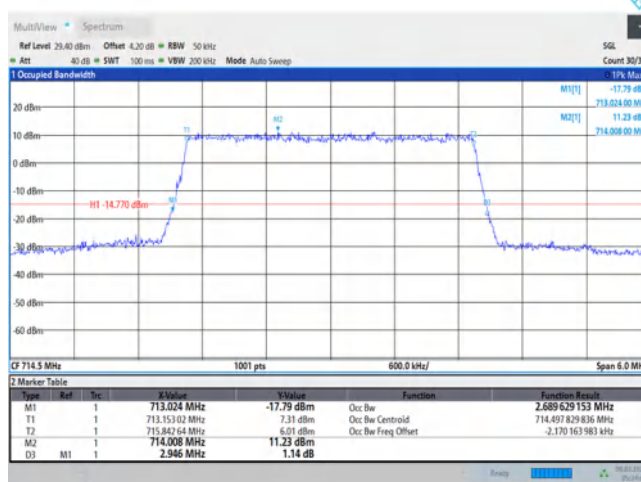
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### Band12-3MHz-256QAM-23095-15RB#0



08:22:58 09.03.2023

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



08:24:07 09.03.2023



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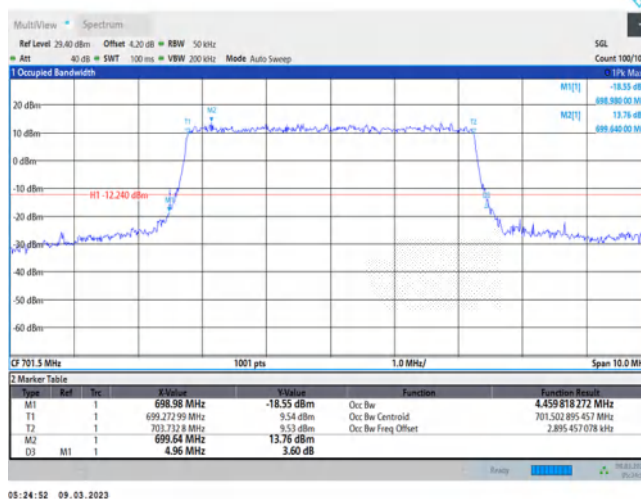
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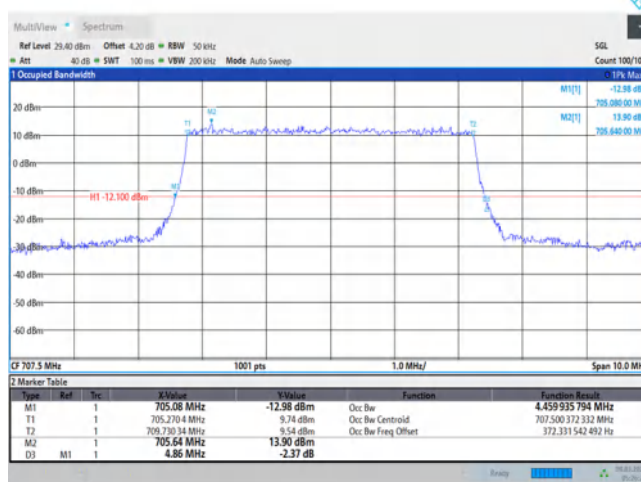
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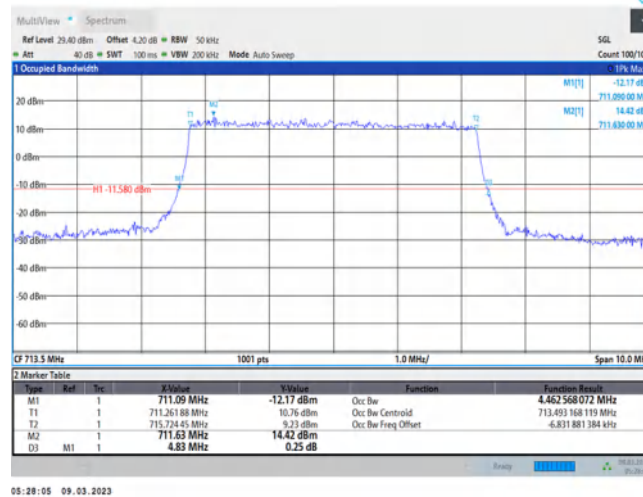
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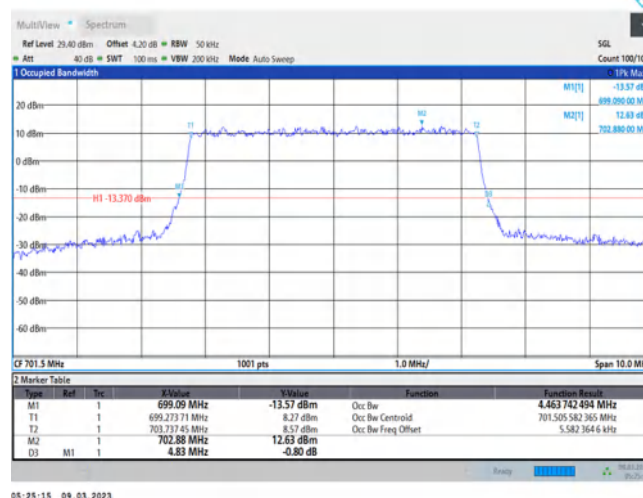
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08:28:05 09.03.2023

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08:28:15 09.03.2023



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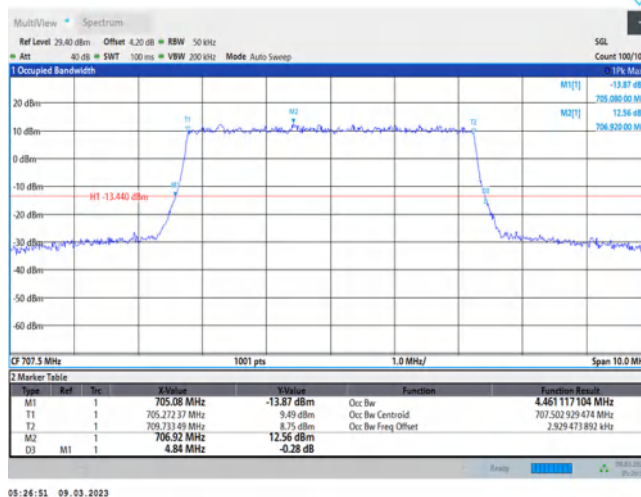
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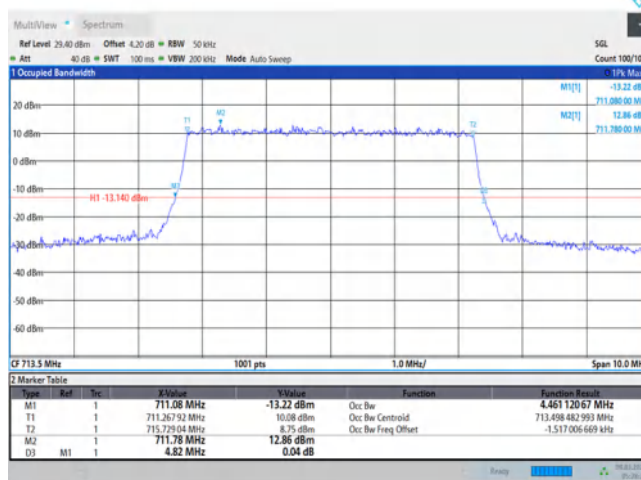
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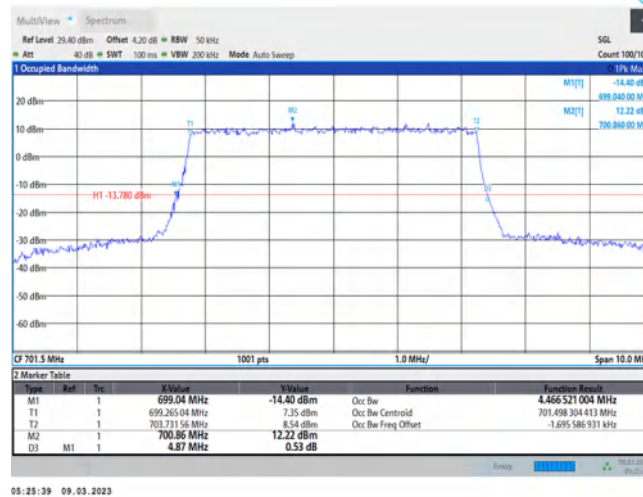
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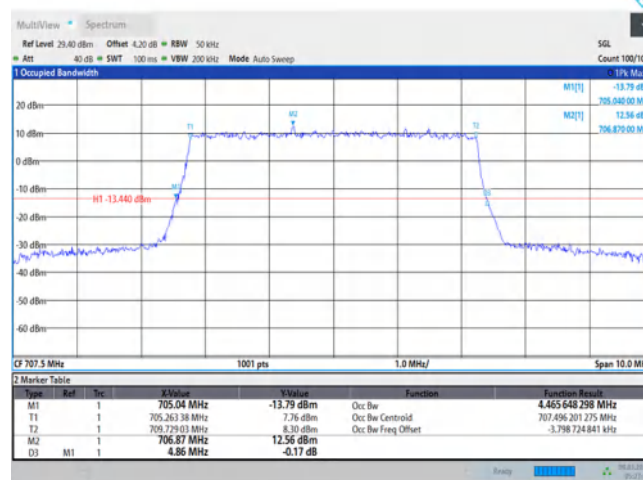
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### Band12-5MHz-64QAM-23035-25RB#0



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### Band12-5MHz-64QAM-23095-25RB#0



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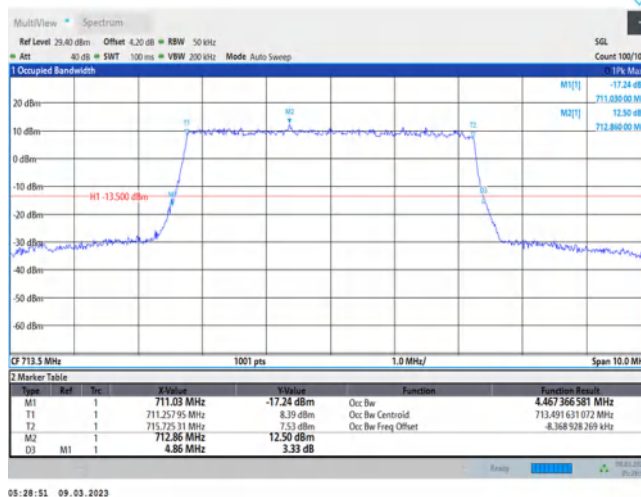
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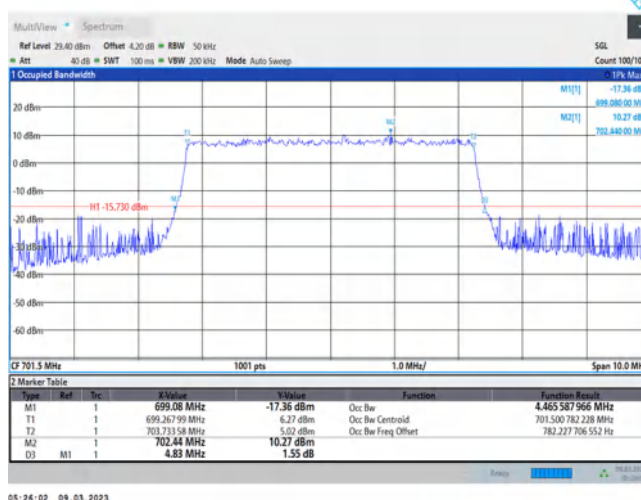
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### Band12-5MHz-64QAM-23155-25RB#0



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



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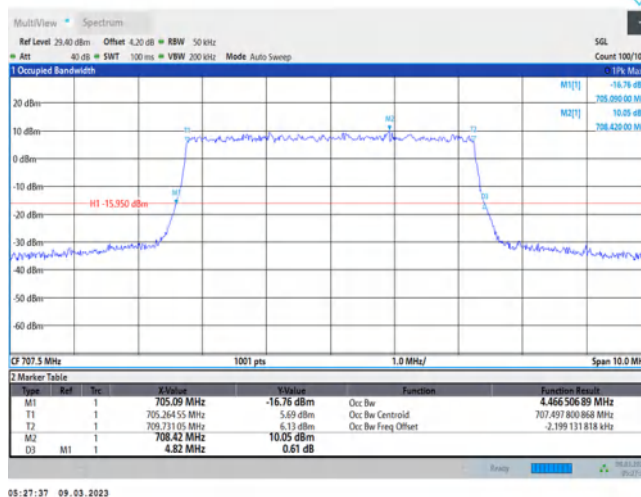
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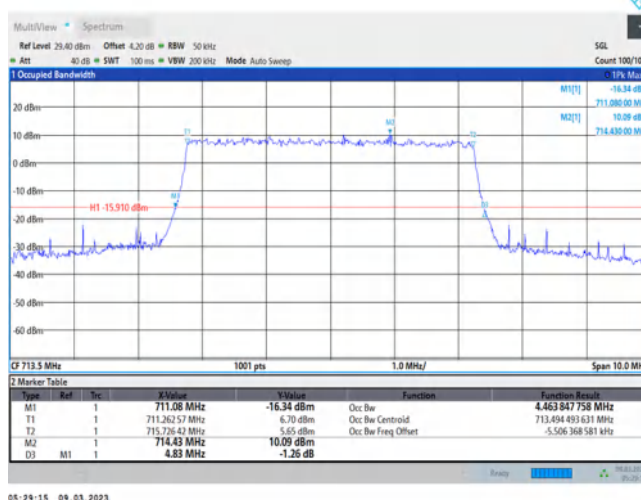
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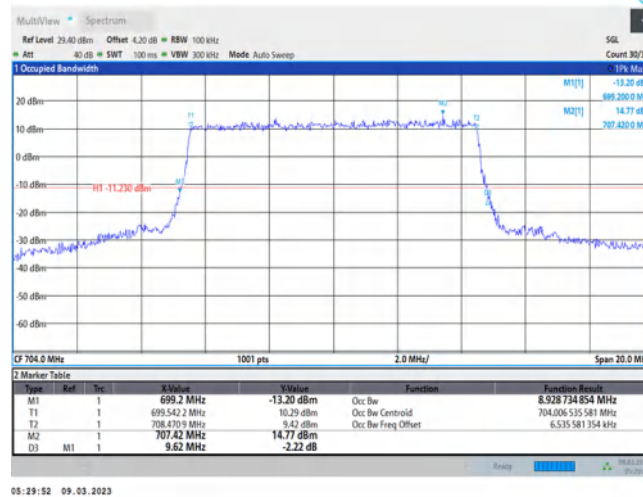
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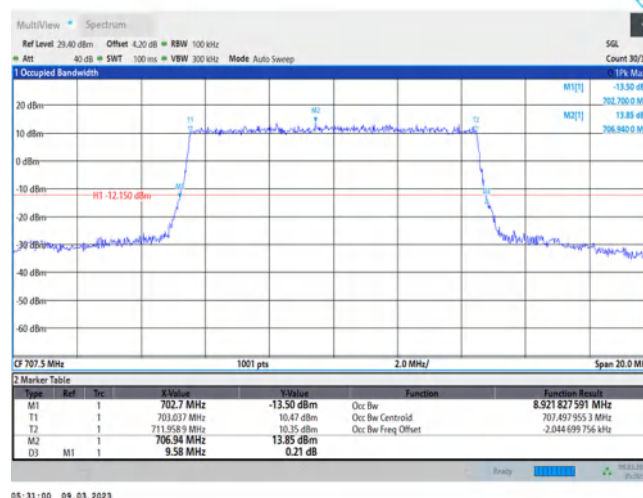
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### Band12-10MHz-QPSK-23060-50RB#0



08:29:52 09.03.2023

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



08:31:00 09.03.2023



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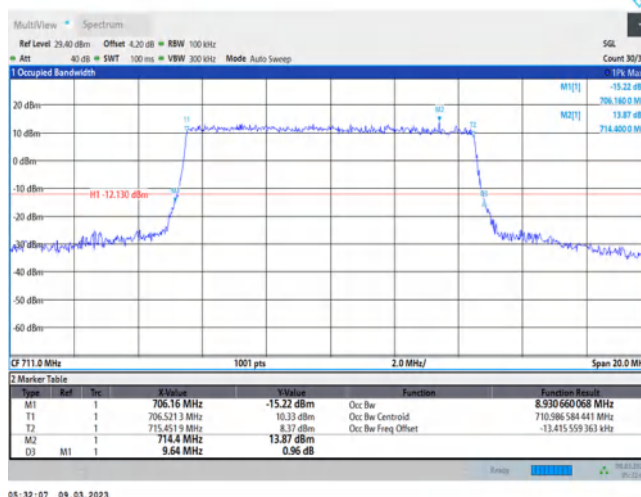
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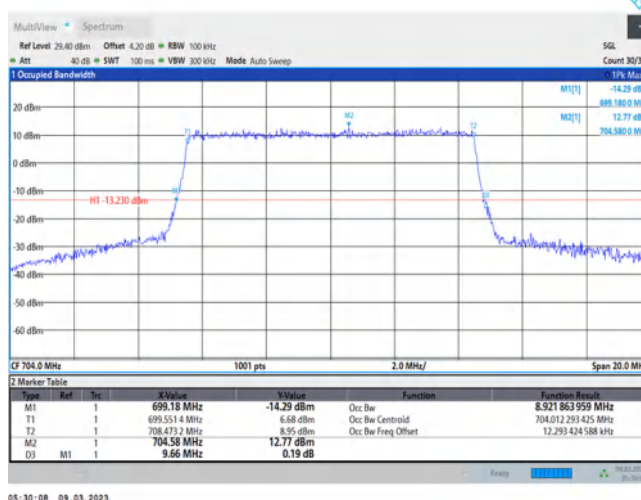
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### Band12-10MHz-QPSK-23130-50RB#0



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



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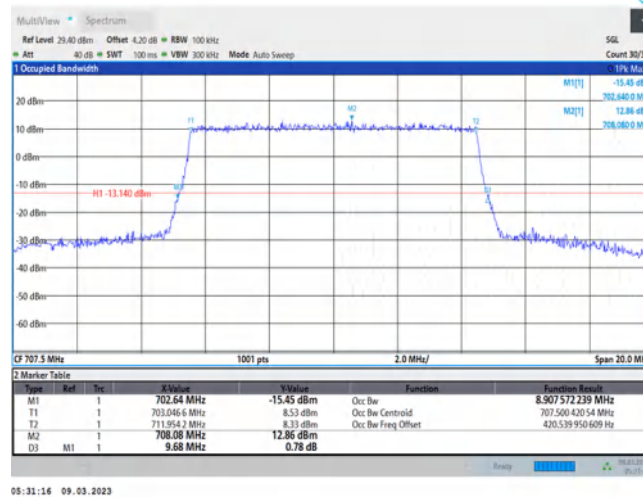
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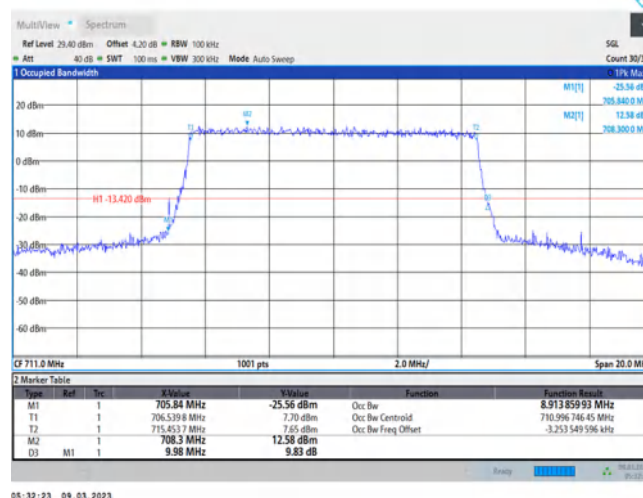
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08:31:16 09.03.2023

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



08:32:23 09.03.2023



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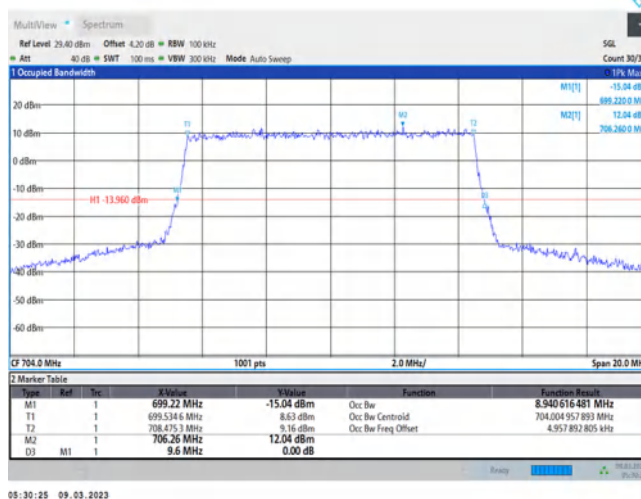
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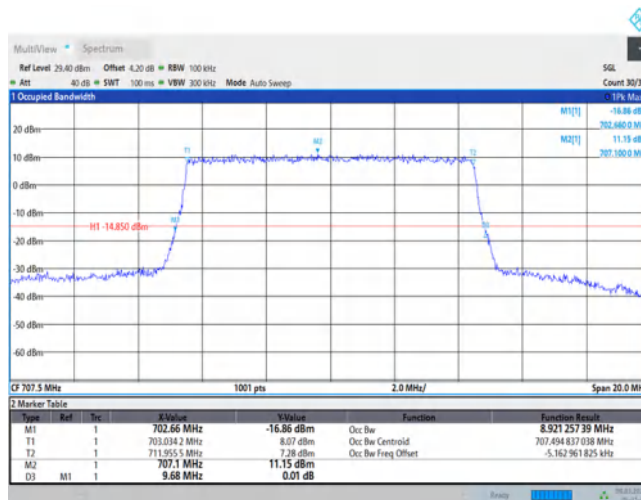
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### Band12-10MHz-64QAM-23060-50RB#0



08:30:25 09.03.2023

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



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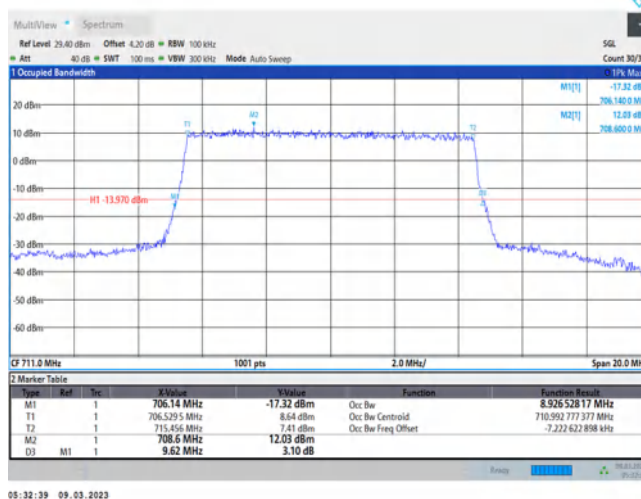
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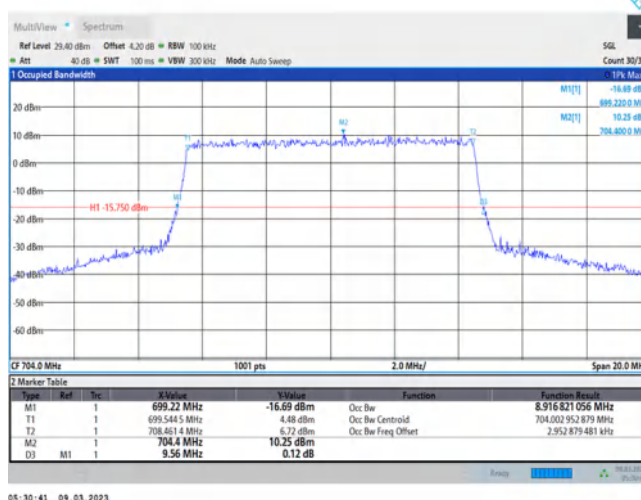
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### Band12-10MHz-64QAM-23130-50RB#0



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



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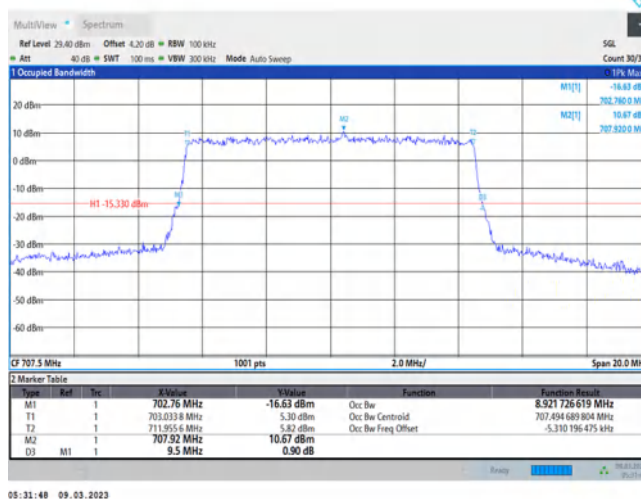
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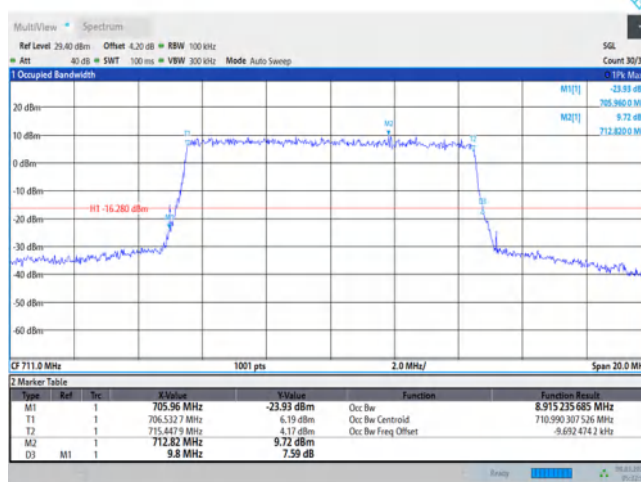
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### Band12-10MHz-256QAM-23130-50RB#0



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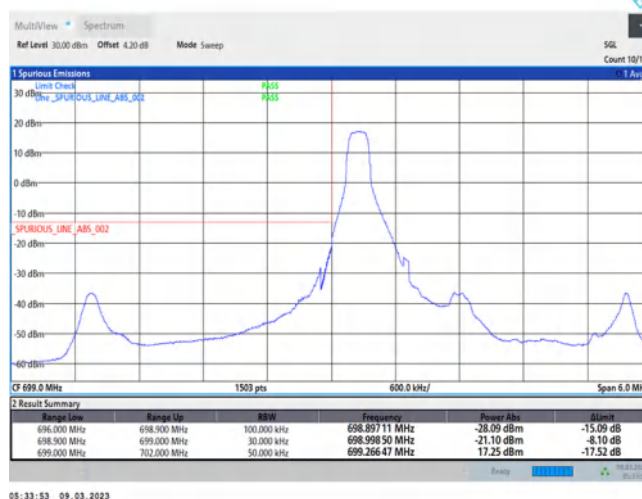
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### Band Edge

### Test Graphs

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



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



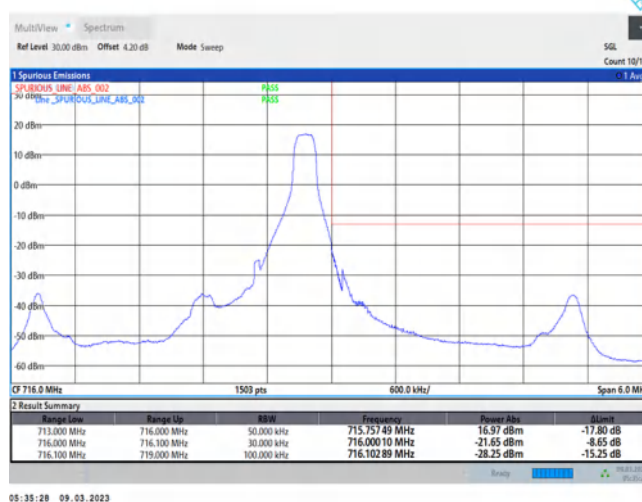
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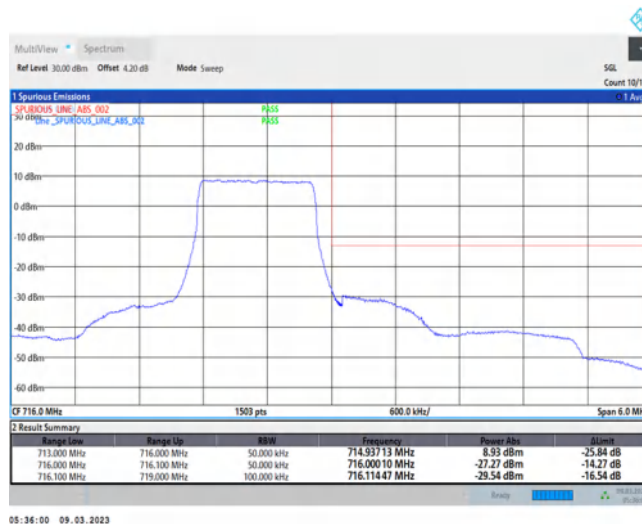
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### Band12-3MHz-QPSK-23025-1RB#0



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



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### Band12-3MHz-QPSK-23165-1RB#14



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



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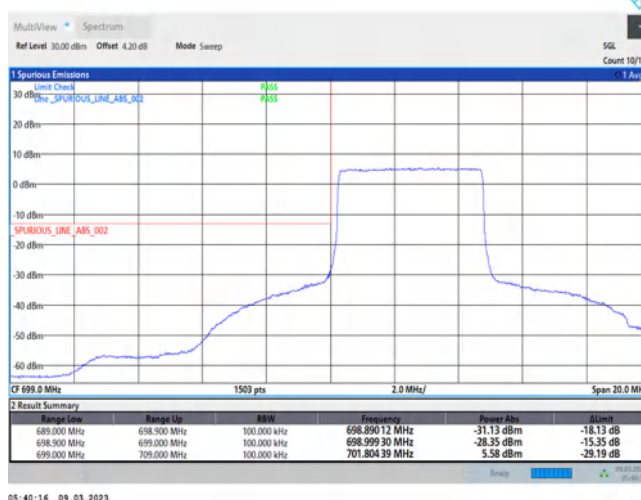
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### Band12-5MHz-QPSK-23035-1RB#0



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



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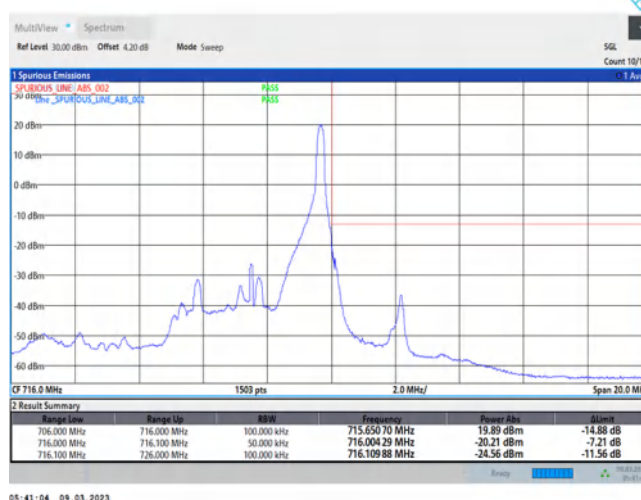
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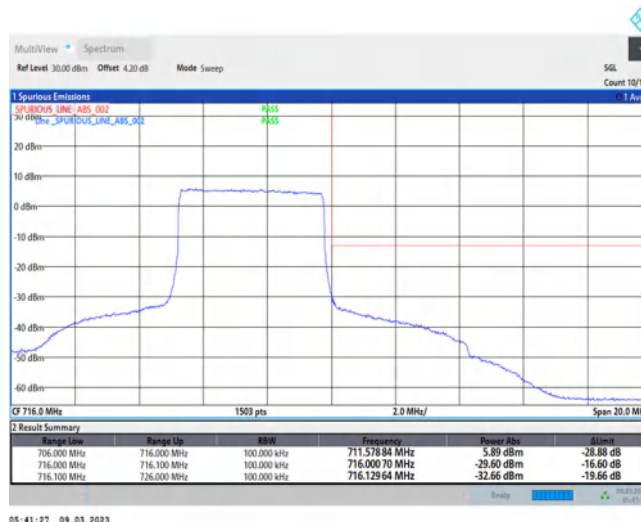
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## Band12-5MHz-QPSK-23155-1RB#24



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



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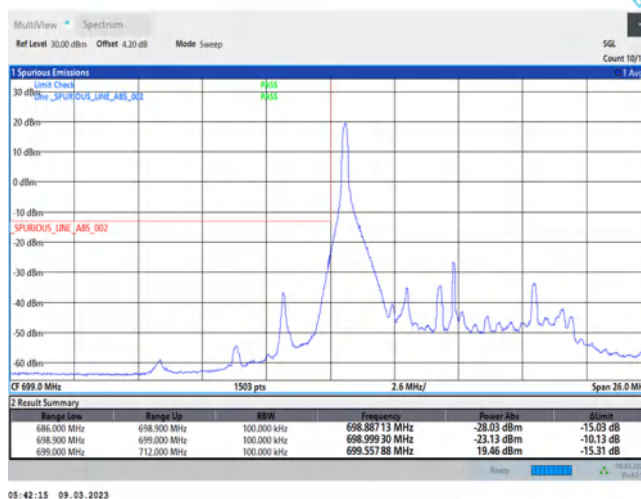
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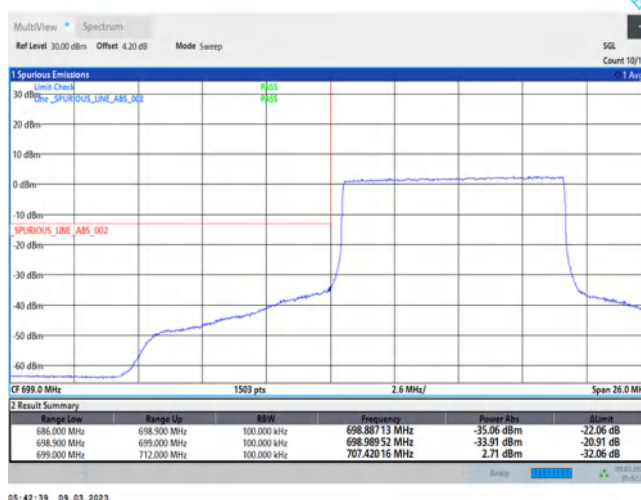
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### Band12-10MHz-QPSK-23060-1RB#0



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



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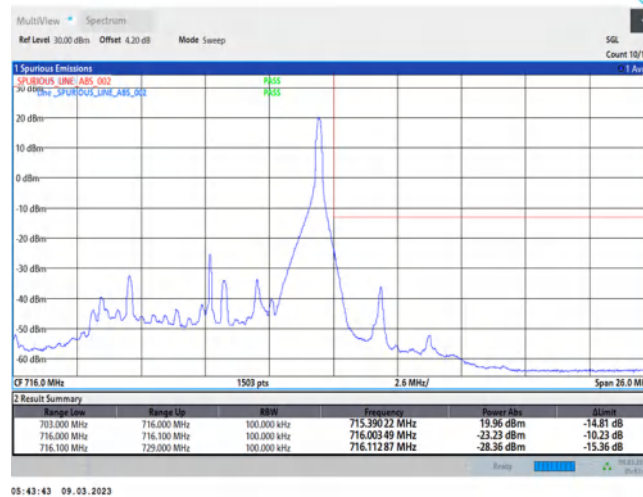
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### Band12-10MHz-QPSK-23130-1RB#49



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



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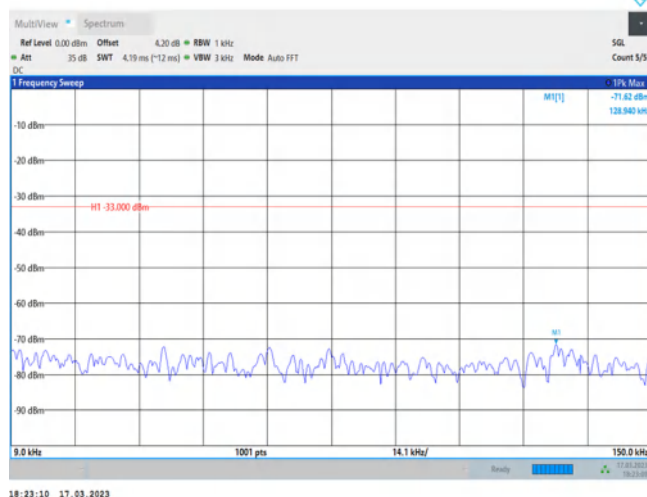
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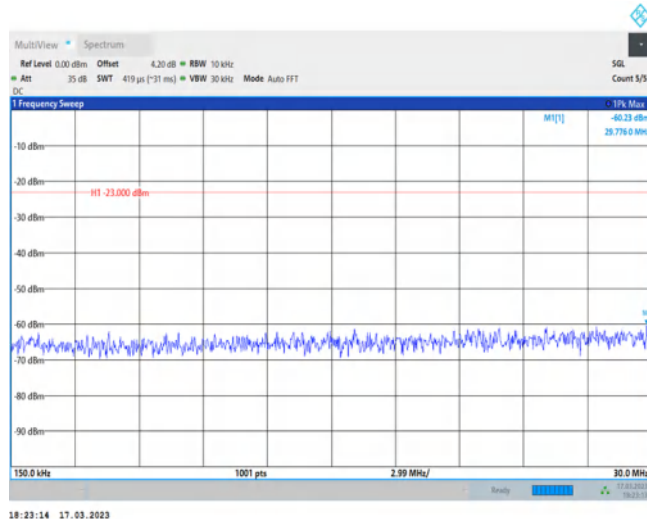
## Conducted Spurious Emission

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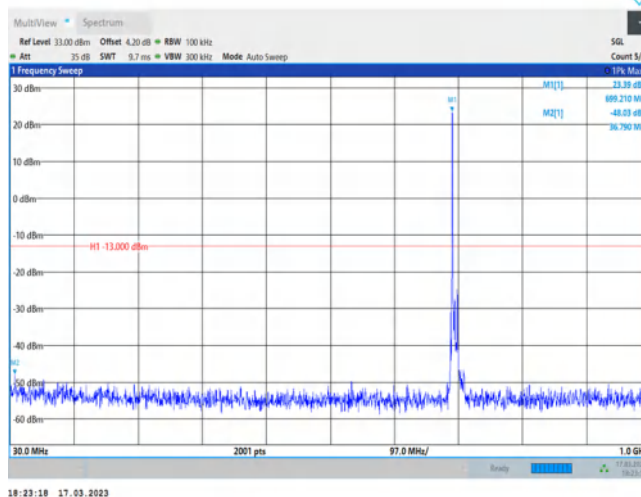
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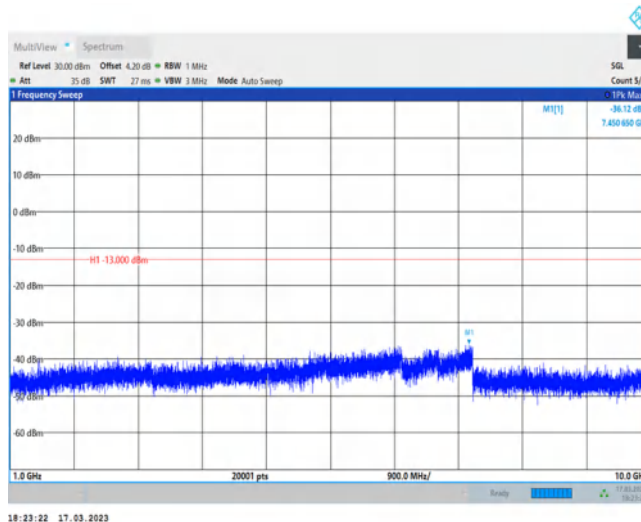
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### Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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



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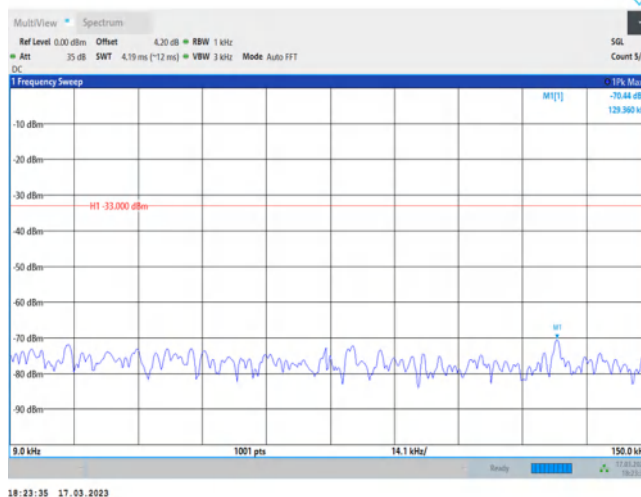
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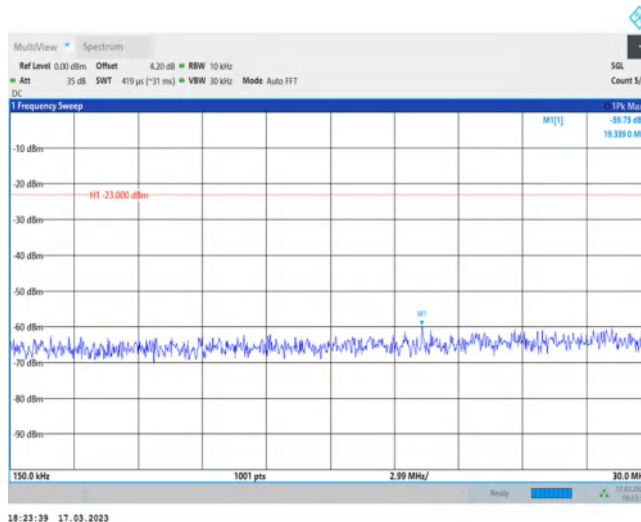
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### Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



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



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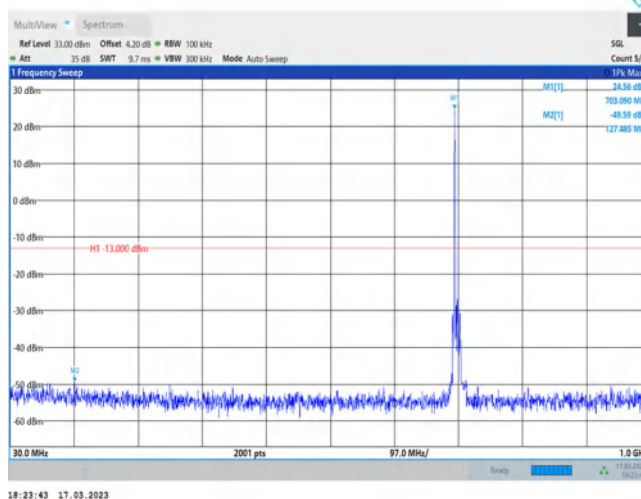
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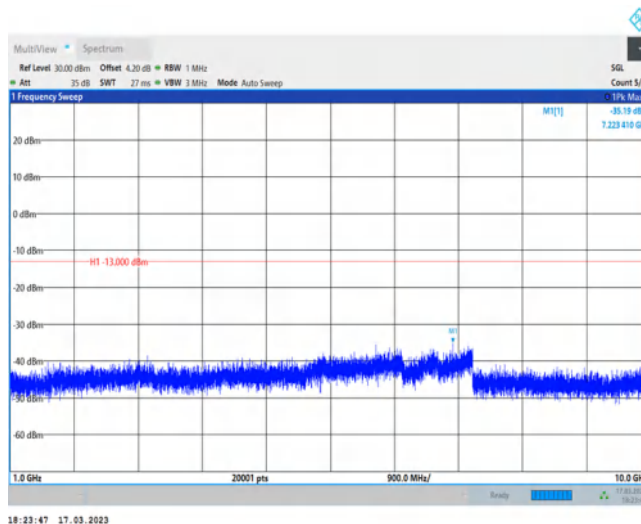
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### Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



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



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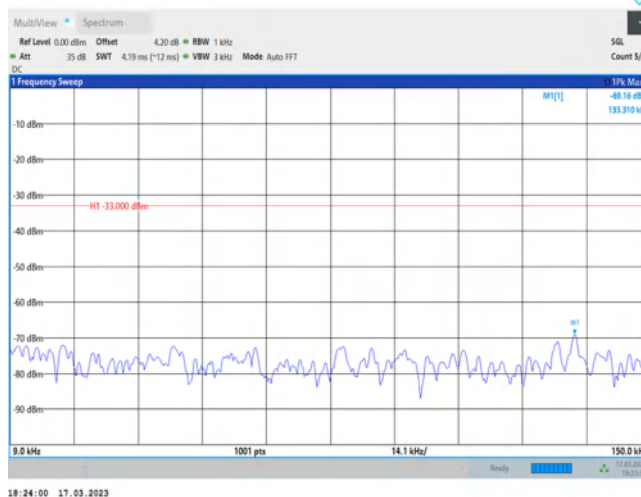
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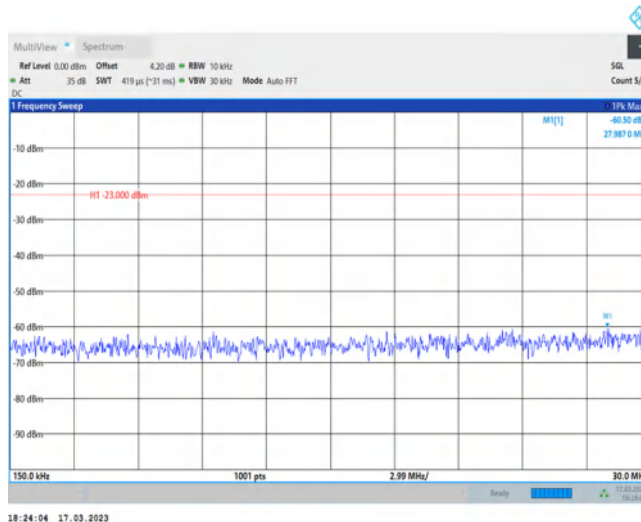
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### Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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



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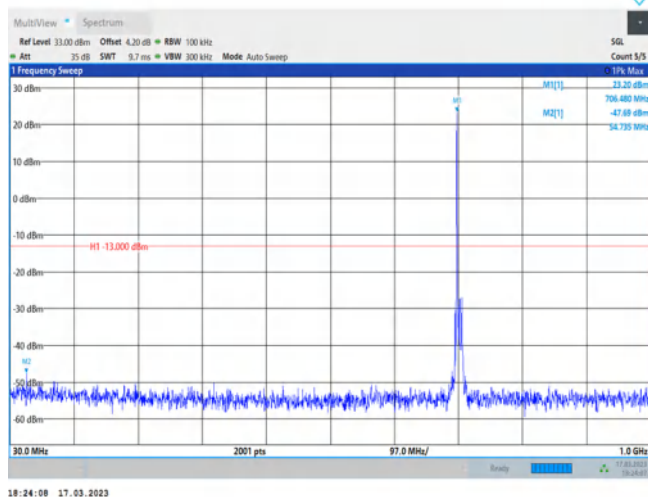
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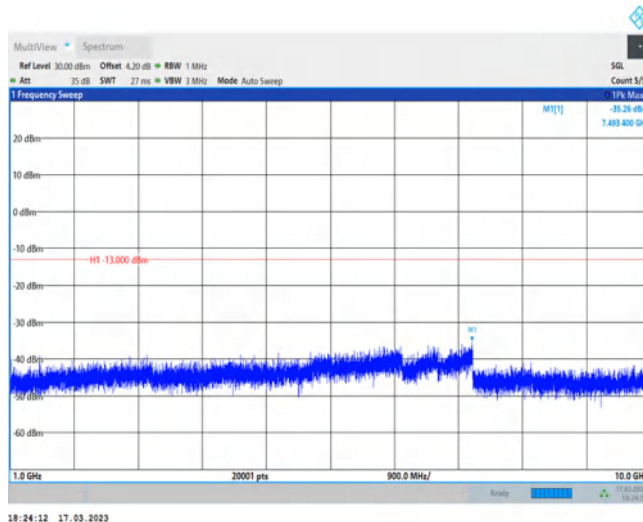
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### Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



### Band12-10MHz-QPSK-23130-1RB#0-Range4:1000~10000MHz



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## Field Strength of Spurious Radiation

**Test Band = LTE Band12\_10MHz \_ TM1**

**Test Channel = Low**

| Final 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               | 1406.2857          | 56.81             | -48.02         | 25.61    | -60.86         | -13.00         | 47.86          | 147            | 51           | Horizontal |
| 2               | 2098.7700          | 42.88             | -47.71         | 26.99    | -73.11         | -13.00         | 60.11          | 215            | 280          | Horizontal |
| 3               | 2812.5714          | 46.29             | -46.88         | 28.53    | -67.31         | -13.00         | 54.31          | 196            | 97           | Horizontal |
| 4               | 3497.9500          | 42.36             | -46.54         | 29.52    | -69.92         | -13.00         | 56.92          | 236            | 97           | Horizontal |
| 5               | 4197.5400          | 41.26             | -45.96         | 31.10    | -68.86         | -13.00         | 55.86          | 225            | 51           | Horizontal |
| 6               | 4897.1300          | 42.36             | -45.58         | 32.59    | -65.89         | -13.00         | 52.89          | 184            | 314          | Horizontal |

| Final 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               | 1406.2857          | 60.51             | -48.02         | 25.61    | -57.16         | -13.00         | 44.16          | 287            | 347          | Vertical |
| 2               | 2098.7700          | 43.18             | -47.71         | 26.99    | -72.81         | -13.00         | 59.81          | 149            | 250          | Vertical |
| 3               | 2812.5714          | 51.12             | -46.88         | 28.53    | -62.48         | -13.00         | 49.48          | 235            | 189          | Vertical |
| 4               | 3497.9500          | 43.04             | -46.54         | 29.52    | -69.24         | -13.00         | 56.24          | 228            | 328          | Vertical |
| 5               | 4218.8571          | 45.99             | -45.93         | 31.14    | -64.06         | -13.00         | 51.06          | 165            | 307          | Vertical |
| 6               | 4897.1300          | 42.08             | -45.58         | 32.59    | -66.17         | -13.00         | 53.17          | 187            | 96           | Vertical |



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**Test Band = LTE Band12\_10MHz \_ TM1**

**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1406.1800       | 56.99          | -48.02      | 25.61    | -60.68      | -13.00      | 47.68       | 287         | 40        | Horizontal |
| 2               | 2109.2700       | 42.99          | -47.71      | 27.02    | -72.95      | -13.00      | 59.95       | 146         | 96        | Horizontal |
| 3               | 2812.3600       | 46.01          | -46.88      | 28.53    | -67.59      | -13.00      | 54.59       | 235         | 188       | Horizontal |
| 4               | 3515.4500       | 42.50          | -46.51      | 29.53    | -69.73      | -13.00      | 56.73       | 221         | 184       | Horizontal |
| 5               | 4218.5400       | 42.81          | -45.93      | 31.14    | -67.24      | -13.00      | 54.24       | 196         | 240       | Horizontal |
| 6               | 4921.6300       | 42.60          | -45.63      | 32.66    | -65.63      | -13.00      | 52.63       | 205         | 202       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1406.1800       | 60.98          | -48.02      | 25.61    | -56.69      | -13.00      | 43.69       | 135         | 334       | Vertical |
| 2               | 2109.2700       | 43.69          | -47.71      | 27.02    | -72.25      | -13.00      | 59.25       | 264         | 0         | Vertical |
| 3               | 2812.3600       | 51.84          | -46.88      | 28.53    | -61.76      | -13.00      | 48.76       | 224         | 203       | Vertical |
| 4               | 3515.4500       | 42.38          | -46.51      | 29.53    | -69.85      | -13.00      | 56.85       | 151         | 195       | Vertical |
| 5               | 4218.5400       | 46.45          | -45.93      | 31.14    | -63.60      | -13.00      | 50.60       | 189         | 307       | Vertical |
| 6               | 4921.6300       | 42.03          | -45.63      | 32.66    | -66.20      | -13.00      | 53.20       | 262         | 3         | Vertical |



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**Test Band = LTE Band12\_10MHz \_ TM1**

**Test Channel = High**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1406.2857       | 56.52          | -48.02      | 25.61    | -61.15      | -13.00      | 48.15       | 251         | 51        | Horizontal |
| 2               | 2119.7700       | 42.99          | -47.70      | 27.06    | -72.91      | -13.00      | 59.91       | 236         | 97        | Horizontal |
| 3               | 2826.3600       | 42.91          | -46.83      | 28.60    | -70.58      | -13.00      | 57.58       | 187         | 46        | Horizontal |
| 4               | 3532.9500       | 42.96          | -46.47      | 29.55    | -69.22      | -13.00      | 56.22       | 149         | 230       | Horizontal |
| 5               | 4239.5400       | 41.06          | -45.89      | 31.18    | -68.91      | -13.00      | 55.91       | 266         | 3         | Horizontal |
| 6               | 4946.1300       | 41.70          | -45.69      | 32.73    | -66.52      | -13.00      | 53.52       | 203         | 84        | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1406.2857       | 59.76          | -48.02      | 25.61    | -57.91      | -13.00      | 44.91       | 256         | 336       | Vertical |
| 2               | 2119.7700       | 43.65          | -47.70      | 27.06    | -72.25      | -13.00      | 59.25       | 197         | 0         | Vertical |
| 3               | 2826.3600       | 43.61          | -46.83      | 28.60    | -69.88      | -13.00      | 56.88       | 206         | 12        | Vertical |
| 4               | 3532.9500       | 42.54          | -46.47      | 29.55    | -69.64      | -13.00      | 56.64       | 135         | 178       | Vertical |
| 5               | 4239.5400       | 41.83          | -45.89      | 31.18    | -68.14      | -13.00      | 55.14       | 216         | 133       | Vertical |
| 6               | 4946.1300       | 41.76          | -45.69      | 32.73    | -66.46      | -13.00      | 53.46       | 247         | 190       | Vertical |



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**Test Band = LTE 12A\_25A\_TM1**  
**Test Channel = Low**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1399.1800       | 27.35          | -25.24      | 25.62    | -67.53      | -13.00      | 54.53       | 134         | 175       | Horizontal |
| 2               | 2098.7700       | 27.79          | -24.20      | 26.99    | -64.68      | -13.00      | 51.68       | 218         | 281       | Horizontal |
| 3               | 2798.3600       | 28.14          | -22.56      | 28.48    | -61.21      | -13.00      | 48.21       | 159         | 105       | Horizontal |
| 4               | 3702.1800       | 40.59          | -45.51      | 29.98    | -70.20      | -13.00      | 57.20       | 216         | 342       | Horizontal |
| 5               | 5553.2700       | 40.99          | -45.15      | 32.97    | -66.45      | -13.00      | 53.45       | 206         | 14        | Horizontal |
| 6               | 7404.3600       | 40.33          | -43.40      | 36.49    | -61.84      | -13.00      | 48.84       | 228         | 360       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1399.1800       | 27.51          | -25.24      | 25.62    | -67.37      | -13.00      | 54.37       | 278         | 85        | Vertical |
| 2               | 2098.7700       | 27.95          | -24.20      | 26.99    | -64.52      | -13.00      | 51.52       | 195         | 19        | Vertical |
| 3               | 2798.3600       | 27.84          | -22.56      | 28.48    | -61.51      | -13.00      | 48.51       | 152         | 107       | Vertical |
| 4               | 3702.1800       | 40.54          | -45.51      | 29.98    | -70.25      | -13.00      | 57.25       | 175         | 360       | Vertical |
| 5               | 5553.2700       | 40.15          | -45.15      | 32.97    | -67.29      | -13.00      | 54.29       | 235         | 224       | Vertical |
| 6               | 7404.3600       | 39.40          | -43.40      | 36.49    | -62.77      | -13.00      | 49.77       | 185         | 360       | Vertical |



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**Test Band = LTE 12A\_25A\_ TM1**

**Test Channel = Mid**

| Final 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          | 28.53             | -25.24         | 25.61    | -66.35         | -13.00         | 53.35          | 218            | 65           | Horizontal |
| 2               | 2109.2700          | 27.95             | -24.19         | 27.02    | -64.48         | -13.00         | 51.48          | 195            | 183          | Horizontal |
| 3               | 2812.3600          | 27.76             | -22.61         | 28.54    | -61.58         | -13.00         | 48.58          | 226            | 3            | Horizontal |
| 4               | 3742.1800          | 40.75             | -45.68         | 30.12    | -70.07         | -13.00         | 57.07          | 235            | 360          | Horizontal |
| 5               | 5613.2700          | 40.05             | -45.04         | 33.07    | -67.18         | -13.00         | 54.18          | 287            | 194          | Horizontal |
| 6               | 7484.3600          | 38.11             | -43.18         | 36.45    | -63.88         | -13.00         | 50.88          | 174            | 239          | Horizontal |

| Final 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          | 27.97             | -25.24         | 25.61    | -66.91         | -13.00         | 53.91          | 188            | 115          | Vertical |
| 2               | 2109.2700          | 27.83             | -24.19         | 27.02    | -64.60         | -13.00         | 51.60          | 219            | 303          | Vertical |
| 3               | 2812.3600          | 27.91             | -22.61         | 28.54    | -61.43         | -13.00         | 48.43          | 275            | 25           | Vertical |
| 4               | 3742.1800          | 40.62             | -45.68         | 30.12    | -70.20         | -13.00         | 57.20          | 156            | 331          | Vertical |
| 5               | 5613.2700          | 40.08             | -45.04         | 33.07    | -67.15         | -13.00         | 54.15          | 302            | 182          | Vertical |
| 6               | 7484.3600          | 38.16             | -43.18         | 36.45    | -63.83         | -13.00         | 50.83          | 174            | 90           | Vertical |



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**Test Band = LTE 12A\_25A\_ TM1**

**Test Channel = High**

## Final 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   | 1413.1800          | 27.77             | -25.23         | 25.60    | -67.12         | -13.00         | 54.12          | 188            | 357          | Horizontal |
| 2   | 2119.7700          | 27.78             | -24.18         | 27.06    | -64.60         | -13.00         | 51.60          | 296            | 303          | Horizontal |
| 3   | 2826.3600          | 27.56             | -22.67         | 28.60    | -61.77         | -13.00         | 48.77          | 235            | 28           | Horizontal |
| 4   | 3792.1800          | 41.56             | -45.89         | 30.30    | -69.29         | -13.00         | 56.29          | 145            | 360          | Horizontal |
| 5   | 5688.2700          | 40.22             | -44.87         | 33.34    | -66.57         | -13.00         | 53.57          | 226            | 360          | Horizontal |
| 6   | 7584.3600          | 38.63             | -42.96         | 36.40    | -63.19         | -13.00         | 50.19          | 201            | 4            | Horizontal |

## Final 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   | 1413.1800          | 27.75             | -25.23         | 25.60    | -67.14         | -13.00         | 54.14          | 174            | 185          | Vertical |
| 2   | 2119.7700          | 27.73             | -24.18         | 27.06    | -64.65         | -13.00         | 51.65          | 215            | 283          | Vertical |
| 3   | 2826.3600          | 27.73             | -22.67         | 28.60    | -61.60         | -13.00         | 48.60          | 166            | 233          | Vertical |
| 4   | 3792.1800          | 41.54             | -45.89         | 30.30    | -69.31         | -13.00         | 56.31          | 215            | 300          | Vertical |
| 5   | 5688.2700          | 40.35             | -44.87         | 33.34    | -66.44         | -13.00         | 53.44          | 239            | 330          | Vertical |
| 6   | 7584.3600          | 37.94             | -42.96         | 36.40    | -63.88         | -13.00         | 50.88          | 228            | 118          | Vertical |



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**Test Band = LTE 12A\_30A\_ TM1**

**Test Channel = Low**

## Final 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          | 36.97             | -25.24         | 25.62    | -57.91         | -40.00         | 17.91          | 208            | 273          | Horizontal |
| 2   | 2098.7700          | 36.43             | -24.20         | 26.99    | -56.04         | -40.00         | 16.04          | 142            | 0            | Horizontal |
| 3   | 2798.3600          | 37.24             | -22.56         | 28.48    | -52.11         | -40.00         | 12.11          | 219            | 212          | Horizontal |
| 4   | 4610.6800          | 42.35             | -45.66         | 31.74    | -66.83         | -40.00         | 26.83          | 238            | 253          | Horizontal |
| 5   | 6916.0200          | 40.79             | -44.01         | 35.98    | -62.50         | -40.00         | 22.50          | 256            | 318          | Horizontal |
| 6   | 9221.3600          | 37.09             | -40.24         | 38.36    | -60.06         | -40.00         | 20.06          | 147            | 284          | Horizontal |

## Final 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          | 34.82             | -25.24         | 25.62    | -60.06         | -40.00         | 20.06          | 211            | 311          | Vertical |
| 2   | 2098.7700          | 36.40             | -24.20         | 26.99    | -56.07         | -40.00         | 16.07          | 149            | 162          | Vertical |
| 3   | 2798.3600          | 37.14             | -22.56         | 28.48    | -52.21         | -40.00         | 12.21          | 265            | 183          | Vertical |
| 4   | 4610.6800          | 42.04             | -45.66         | 31.74    | -67.14         | -40.00         | 27.14          | 284            | 329          | Vertical |
| 5   | 6916.0200          | 40.95             | -44.01         | 35.98    | -62.34         | -40.00         | 22.34          | 156            | 360          | Vertical |
| 6   | 9221.3600          | 37.37             | -40.24         | 38.36    | -59.78         | -40.00         | 19.78          | 214            | 281          | Vertical |



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**Test Band = LTE 12A\_30A\_ TM1**

**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1406.1800       | 35.34          | -25.24      | 25.61    | -59.54      | -40.00      | 19.54       | 178         | 134       | Horizontal |
| 2               | 2109.2700       | 36.38          | -24.19      | 27.02    | -56.05      | -40.00      | 16.05       | 146         | 114       | Horizontal |
| 3               | 2812.3600       | 36.99          | -22.61      | 28.54    | -52.35      | -40.00      | 12.35       | 215         | 222       | Horizontal |
| 4               | 4615.6800       | 42.22          | -45.66      | 31.76    | -66.94      | -40.00      | 26.94       | 238         | 192       | Horizontal |
| 5               | 6923.5200       | 41.07          | -43.97      | 35.99    | -62.17      | -40.00      | 22.17       | 215         | 352       | Horizontal |
| 6               | 9231.3600       | 36.72          | -40.24      | 38.36    | -60.42      | -40.00      | 20.42       | 126         | 360       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1406.1800       | 35.00          | -25.24      | 25.61    | -59.88      | -40.00      | 19.88       | 274         | 304       | Vertical |
| 2               | 2109.2700       | 36.30          | -24.19      | 27.02    | -56.13      | -40.00      | 16.13       | 148         | 272       | Vertical |
| 3               | 2812.3600       | 37.01          | -22.61      | 28.54    | -52.33      | -40.00      | 12.33       | 264         | 262       | Vertical |
| 4               | 4615.6800       | 42.33          | -45.66      | 31.76    | -66.83      | -40.00      | 26.83       | 138         | 240       | Vertical |
| 5               | 6923.5200       | 40.82          | -43.97      | 35.99    | -62.42      | -40.00      | 22.42       | 211         | 46        | Vertical |
| 6               | 9231.3600       | 37.23          | -40.24      | 38.36    | -59.91      | -40.00      | 19.91       | 198         | 360       | Vertical |



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**Test Band = LTE 12A\_30A\_ TM1**

**Test Channel = High**

| Final 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       | 35.23          | -25.23      | 25.60    | -59.66      | -40.00      | 19.66       | 224         | 83        | Horizontal |
| 2               | 2119.7700       | 36.32          | -24.18      | 27.06    | -56.06      | -40.00      | 16.06       | 164         | 122       | Horizontal |
| 3               | 2826.3600       | 36.61          | -22.67      | 28.60    | -52.72      | -40.00      | 12.72       | 185         | 73        | Horizontal |
| 4               | 4620.6800       | 41.64          | -45.66      | 31.77    | -67.50      | -40.00      | 27.50       | 163         | 332       | Horizontal |
| 5               | 6931.0200       | 40.83          | -43.93      | 36.00    | -62.36      | -40.00      | 22.36       | 292         | 226       | Horizontal |
| 6               | 9241.3200       | 36.75          | -40.24      | 38.37    | -60.38      | -40.00      | 20.38       | 261         | 212       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1413.1800       | 35.13          | -25.23      | 25.60    | -59.76      | -40.00      | 19.76       | 237         | 319       | Vertical |
| 2               | 2119.7700       | 36.45          | -24.18      | 27.06    | -55.93      | -40.00      | 15.93       | 188         | 123       | Vertical |
| 3               | 2826.3600       | 36.71          | -22.67      | 28.60    | -52.62      | -40.00      | 12.62       | 249         | 76        | Vertical |
| 4               | 4620.6800       | 41.63          | -45.66      | 31.77    | -67.51      | -40.00      | 27.51       | 156         | 17        | Vertical |
| 5               | 6931.0200       | 41.63          | -43.93      | 36.00    | -61.56      | -40.00      | 21.56       | 213         | 221       | Vertical |
| 6               | 9241.3200       | 37.07          | -40.24      | 38.37    | -60.06      | -40.00      | 20.06       | 183         | 297       | Vertical |



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Test Band = LTE 12A\_38A\_TM1

Test Channel = Low

## Final Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| 1   | 1406            | 32.17          | -25.24      | 25.61    | -62.71      | -25.00      | 37.71       | 284         | 53        | Horizontal |
| 2   | 2098.7700       | 29.18          | -24.20      | 26.99    | -63.29      | -25.00      | 38.29       | 166         | 0         | Horizontal |
| 3   | 2798.3600       | 29.13          | -22.56      | 28.48    | -60.22      | -25.00      | 35.22       | 294         | 23        | Horizontal |
| 4   | 5156.25         | 45.85          | -45.32      | 32.97    | -61.76      | -25.00      | 36.76       | 126         | 352       | Horizontal |
| 5   | 7713.2700       | 40.71          | -43.01      | 36.61    | -60.95      | -25.00      | 35.95       | 213         | 357       | Horizontal |
| 6   | 10284.3600      | 35.03          | -39.15      | 38.83    | -60.55      | -25.00      | 35.55       | 255         | 164       | Horizontal |

## Final Data List

| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| 1   | 1406            | 31.51          | -25.24      | 25.61    | -63.37      | -25.00      | 38.37       | 287         | 112       | Vertical |
| 2   | 2098.7700       | 29.19          | -24.20      | 26.99    | -63.28      | -25.00      | 38.28       | 149         | 153       | Vertical |
| 3   | 2798.3600       | 29.31          | -22.56      | 28.48    | -60.04      | -25.00      | 35.04       | 265         | 4         | Vertical |
| 4   | 5156.25         | 50.61          | -45.32      | 32.97    | -57.00      | -25.00      | 32.00       | 185         | 239       | Vertical |
| 5   | 7713.2700       | 40.23          | -43.01      | 36.61    | -61.43      | -25.00      | 36.43       | 122         | 42        | Vertical |
| 6   | 10284.3600      | 35.33          | -39.15      | 38.83    | -60.25      | -25.00      | 35.25       | 211         | 328       | Vertical |



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**Test Band = LTE 12A\_38A\_ TM1**

**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1406.1800       | 30.64          | -25.24      | 25.61    | -64.24      | -25.00      | 39.24       | 325         | 62        | Horizontal |
| 2               | 2109.2700       | 29.25          | -24.19      | 27.02    | -63.18      | -25.00      | 38.18       | 168         | 156       | Horizontal |
| 3               | 2812.3600       | 29.42          | -22.61      | 28.54    | -59.92      | -25.00      | 34.92       | 294         | 34        | Horizontal |
| 4               | 5156.25         | 45.98          | -45.32      | 32.97    | -61.63      | -25.00      | 36.63       | 122         | 343       | Horizontal |
| 5               | 7758.2700       | 40.68          | -42.64      | 36.70    | -60.52      | -25.00      | 35.52       | 186         | 104       | Horizontal |
| 6               | 10344.3600      | 36.18          | -39.05      | 38.85    | -59.29      | -25.00      | 34.29       | 237         | 29        | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1406.1800       | 30.75          | -25.24      | 25.61    | -64.13      | -25.00      | 39.13       | 206         | 331       | Vertical |
| 2               | 2109.2700       | 29.16          | -24.19      | 27.02    | -63.27      | -25.00      | 38.27       | 293         | 85        | Vertical |
| 3               | 2812.3600       | 29.50          | -22.61      | 28.54    | -59.84      | -25.00      | 34.84       | 227         | 357       | Vertical |
| 4               | 5156.25         | 51.15          | -45.32      | 32.97    | -56.46      | -25.00      | 31.46       | 154         | 239       | Vertical |
| 5               | 7758.2700       | 40.06          | -42.64      | 36.70    | -61.14      | -25.00      | 36.14       | 201         | 43        | Vertical |
| 6               | 10344.3600      | 35.90          | -39.05      | 38.85    | -59.57      | -25.00      | 34.57       | 136         | 178       | Vertical |



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**Test Band = LTE 12A\_38A\_ TM1**

**Test Channel = High**

| Final 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       | 29.06          | -25.23      | 25.60    | -65.83      | -25.00      | 40.83       | 285         | 269       | Horizontal |
| 2               | 2119.7700       | 28.96          | -24.18      | 27.06    | -63.42      | -25.00      | 38.42       | 196         | 0         | Horizontal |
| 3               | 2826.3600       | 28.83          | -22.67      | 28.60    | -60.50      | -25.00      | 35.50       | 235         | 86        | Horizontal |
| 4               | 5202.1800       | 41.73          | -45.27      | 32.99    | -65.82      | -25.00      | 40.82       | 114         | 302       | Horizontal |
| 5               | 7803.2700       | 39.29          | -42.33      | 36.78    | -61.51      | -25.00      | 36.51       | 264         | 164       | Horizontal |
| 6               | 10404.3600      | 34.79          | -39.00      | 38.86    | -60.61      | -25.00      | 35.61       | 123         | 239       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1413.1800       | 28.91          | -25.23      | 25.60    | -65.98      | -25.00      | 40.98       | 254         | 7         | Vertical |
| 2               | 2119.7700       | 29.00          | -24.18      | 27.06    | -63.38      | -25.00      | 38.38       | 189         | 46        | Vertical |
| 3               | 2826.3600       | 28.79          | -22.67      | 28.60    | -60.54      | -25.00      | 35.54       | 265         | 30        | Vertical |
| 4               | 5202.1800       | 42.41          | -45.27      | 32.99    | -65.14      | -25.00      | 40.14       | 288         | 356       | Vertical |
| 5               | 7803.2700       | 39.63          | -42.33      | 36.78    | -61.17      | -25.00      | 36.17       | 194         | 104       | Vertical |
| 6               | 10404.3600      | 34.86          | -39.00      | 38.86    | -60.54      | -25.00      | 35.54       | 136         | 360       | Vertical |



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**Test Band = LTE 12A\_41A\_ TM1**

**Test Channel = Low**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1399.1800       | 28.79          | -25.24      | 25.62    | -66.09      | -25.00      | 41.09       | 127         | 3         | Horizontal |
| 2               | 2098.7700       | 29.21          | -24.20      | 26.99    | -63.26      | -25.00      | 38.26       | 216         | 251       | Horizontal |
| 3               | 2798.3600       | 29.38          | -22.56      | 28.48    | -59.97      | -25.00      | 34.97       | 224         | 7         | Horizontal |
| 4               | 4994.1800       | 41.60          | -45.63      | 32.86    | -66.43      | -25.00      | 41.43       | 163         | 360       | Horizontal |
| 5               | 7491.2700       | 39.79          | -43.16      | 36.44    | -62.19      | -25.00      | 37.19       | 258         | 305       | Horizontal |
| 6               | 9988.3600       | 37.32          | -39.25      | 38.47    | -58.72      | -25.00      | 33.72       | 169         | 75        | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1399.1800       | 28.60          | -25.24      | 25.62    | -66.28      | -25.00      | 41.28       | 262         | 1         | Vertical |
| 2               | 2098.7700       | 29.08          | -24.20      | 26.99    | -63.39      | -25.00      | 38.39       | 159         | 63        | Vertical |
| 3               | 2798.3600       | 29.25          | -22.56      | 28.48    | -60.10      | -25.00      | 35.10       | 234         | 0         | Vertical |
| 4               | 4994.1800       | 41.73          | -45.63      | 32.86    | -66.30      | -25.00      | 41.30       | 142         | 344       | Vertical |
| 5               | 7491.2700       | 39.77          | -43.16      | 36.44    | -62.21      | -25.00      | 37.21       | 166         | 239       | Vertical |
| 6               | 9988.3600       | 37.07          | -39.25      | 38.47    | -58.97      | -25.00      | 33.97       | 219         | 194       | Vertical |



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**Test Band = LTE 12A\_41A\_ TM1**

**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1406.1800       | 31.05          | -25.24      | 25.61    | -63.83      | -25.00      | 38.83       | 284         | 46        | Horizontal |
| 2               | 2109.2700       | 29.17          | -24.19      | 27.02    | -63.26      | -25.00      | 38.26       | 194         | 115       | Horizontal |
| 3               | 2812.3600       | 29.27          | -22.61      | 28.54    | -60.07      | -25.00      | 35.07       | 226         | 7         | Horizontal |
| 4               | 5156.25         | 46.72          | -45.32      | 32.97    | -60.89      | -25.00      | 35.89       | 238         | 150       | Horizontal |
| 5               | 7752.2700       | 40.66          | -42.69      | 36.69    | -60.60      | -25.00      | 35.60       | 241         | 328       | Horizontal |
| 6               | 10336.3600      | 36.09          | -39.06      | 38.84    | -59.39      | -25.00      | 34.39       | 139         | 28        | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1406.1800       | 30.48          | -25.24      | 25.61    | -64.40      | -25.00      | 39.40       | 295         | 322       | Vertical |
| 2               | 2109.2700       | 29.00          | -24.19      | 27.02    | -63.43      | -25.00      | 38.43       | 184         | 145       | Vertical |
| 3               | 2812.3600       | 29.37          | -22.61      | 28.54    | -59.97      | -25.00      | 34.97       | 156         | 302       | Vertical |
| 4               | 5156.25         | 51.40          | -45.32      | 32.97    | -56.21      | -25.00      | 31.21       | 223         | 239       | Vertical |
| 5               | 7752.2700       | 40.87          | -42.69      | 36.69    | -60.39      | -25.00      | 35.39       | 186         | 135       | Vertical |
| 6               | 10336.3600      | 37.26          | -39.06      | 38.84    | -58.22      | -25.00      | 33.22       | 229         | 286       | Vertical |



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**Test Band = LTE 12A\_41A\_ TM1**

**Test Channel = High**

| Final 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       | 28.94          | -25.23      | 25.60    | -65.95      | -25.00      | 40.95       | 289         | 263       | Horizontal |
| 2               | 2119.7700       | 29.00          | -24.18      | 27.06    | -63.38      | -25.00      | 38.38       | 214         | 29        | Horizontal |
| 3               | 2826.3600       | 29.08          | -22.67      | 28.60    | -60.25      | -25.00      | 35.25       | 165         | 203       | Horizontal |
| 4               | 5342.1800       | 41.73          | -45.18      | 32.85    | -65.85      | -25.00      | 40.85       | 229         | 360       | Horizontal |
| 5               | 8013.2700       | 40.04          | -42.21      | 37.01    | -60.42      | -25.00      | 35.42       | 134         | 148       | Horizontal |
| 6               | 10684.3600      | 35.34          | -37.97      | 39.13    | -58.76      | -25.00      | 33.76       | 219         | 179       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1413.1800       | 29.07          | -25.23      | 25.60    | -65.82      | -25.00      | 40.82       | 288         | 0         | Vertical |
| 2               | 2119.7700       | 29.31          | -24.18      | 27.06    | -63.07      | -25.00      | 38.07       | 216         | 135       | Vertical |
| 3               | 2826.3600       | 28.94          | -22.67      | 28.60    | -60.39      | -25.00      | 35.39       | 229         | 1         | Vertical |
| 4               | 5342.1800       | 41.41          | -45.18      | 32.85    | -66.17      | -25.00      | 41.17       | 235         | 133       | Vertical |
| 5               | 8013.2700       | 40.31          | -42.21      | 37.01    | -60.15      | -25.00      | 35.15       | 248         | 268       | Vertical |
| 6               | 10684.3600      | 34.84          | -37.97      | 39.13    | -59.26      | -25.00      | 34.26       | 142         | 359       | Vertical |



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**Test Band = LTE 12A\_66A\_ TM1**

**Test Channel = Low**

| Final 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          | 28.78             | -25.24         | 25.62    | -66.10         | -13.00         | 53.10          | 244            | 75           | Horizontal |
| 2               | 2098.7700          | 29.52             | -24.20         | 26.99    | -62.95         | -13.00         | 49.95          | 189            | 0            | Horizontal |
| 3               | 2798.3600          | 29.80             | -22.56         | 28.48    | -59.55         | -13.00         | 46.55          | 216            | 154          | Horizontal |
| 4               | 3404.1800          | 43.09             | -46.28         | 29.43    | -69.02         | -13.00         | 56.02          | 235            | 14           | Horizontal |
| 5               | 5106.2700          | 41.72             | -45.36         | 32.94    | -65.97         | -13.00         | 52.97          | 185            | 352          | Horizontal |
| 6               | 6808.3600          | 41.28             | -44.16         | 35.85    | -62.29         | -13.00         | 49.29          | 164            | 60           | Horizontal |

| Final 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          | 28.92             | -25.24         | 25.62    | -65.96         | -13.00         | 52.96          | 205            | 56           | Vertical |
| 2               | 2098.7700          | 29.16             | -24.20         | 26.99    | -63.31         | -13.00         | 50.31          | 187            | 56           | Vertical |
| 3               | 2798.3600          | 29.51             | -22.56         | 28.48    | -59.84         | -13.00         | 46.84          | 199            | 341          | Vertical |
| 4               | 3404.1800          | 42.92             | -46.28         | 29.43    | -69.19         | -13.00         | 56.19          | 263            | 135          | Vertical |
| 5               | 5106.2700          | 41.56             | -45.36         | 32.94    | -66.13         | -13.00         | 53.13          | 245            | 360          | Vertical |
| 6               | 6808.3600          | 41.79             | -44.16         | 35.85    | -61.78         | -13.00         | 48.78          | 154            | 181          | Vertical |



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**Test Band = LTE 12A\_66A\_ TM1**

**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1406.1800       | 30.19          | -25.24      | 25.61    | -64.69      | -13.00      | 51.69       | 225         | 55        | Horizontal |
| 2               | 2109.2700       | 29.28          | -24.19      | 27.02    | -63.15      | -13.00      | 50.15       | 174         | 214       | Horizontal |
| 3               | 2812.3600       | 29.22          | -22.61      | 28.54    | -60.12      | -13.00      | 47.12       | 168         | 357       | Horizontal |
| 4               | 3454.1800       | 43.50          | -46.27      | 29.48    | -68.55      | -13.00      | 55.55       | 193         | 14        | Horizontal |
| 5               | 5181.2700       | 41.30          | -45.30      | 32.98    | -66.28      | -13.00      | 53.28       | 204         | 344       | Horizontal |
| 6               | 6908.3600       | 41.11          | -44.05      | 35.97    | -62.23      | -13.00      | 49.23       | 132         | 283       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1406.1800       | 29.56          | -25.24      | 25.61    | -65.32      | -13.00      | 52.32       | 142         | 107       | Vertical |
| 2               | 2109.2700       | 29.25          | -24.19      | 27.02    | -63.18      | -13.00      | 50.18       | 163         | 30        | Vertical |
| 3               | 2812.3600       | 29.30          | -22.61      | 28.54    | -60.04      | -13.00      | 47.04       | 299         | 322       | Vertical |
| 4               | 3454.1800       | 43.21          | -46.27      | 29.48    | -68.84      | -13.00      | 55.84       | 187         | 360       | Vertical |
| 5               | 5181.2700       | 41.88          | -45.30      | 32.98    | -65.70      | -13.00      | 52.70       | 302         | 74        | Vertical |
| 6               | 6908.3600       | 40.82          | -44.05      | 35.97    | -62.52      | -13.00      | 49.52       | 162         | 360       | Vertical |



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Test Band = LTE 12A\_66A\_ TM1

Test Channel = High

| Final 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       | 29.35          | -25.23      | 25.60    | -65.54      | -13.00      | 52.54       | 214         | 274       | Horizontal |
| 2               | 2119.7700       | 29.63          | -24.18      | 27.06    | -62.75      | -13.00      | 49.75       | 266         | 2         | Horizontal |
| 3               | 2826.3600       | 28.96          | -22.67      | 28.60    | -60.37      | -13.00      | 47.37       | 153         | 48        | Horizontal |
| 4               | 3504.1800       | 43.19          | -46.25      | 29.52    | -68.80      | -13.00      | 55.80       | 284         | 301       | Horizontal |
| 5               | 5256.2700       | 42.09          | -45.17      | 32.94    | -65.41      | -13.00      | 52.41       | 159         | 242       | Horizontal |
| 6               | 7008.3600       | 40.46          | -43.61      | 36.10    | -62.31      | -13.00      | 49.31       | 204         | 90        | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1413.1800       | 29.05          | -25.23      | 25.60    | -65.84      | -13.00      | 52.84       | 178         | 165       | Vertical |
| 2               | 2119.7700       | 29.21          | -24.18      | 27.06    | -63.17      | -13.00      | 50.17       | 284         | 283       | Vertical |
| 3               | 2826.3600       | 29.16          | -22.67      | 28.60    | -60.17      | -13.00      | 47.17       | 169         | 207       | Vertical |
| 4               | 3504.1800       | 43.13          | -46.25      | 29.52    | -68.86      | -13.00      | 55.86       | 306         | 285       | Vertical |
| 5               | 5256.2700       | 42.50          | -45.17      | 32.94    | -65.00      | -13.00      | 52.00       | 268         | 285       | Vertical |
| 6               | 7008.3600       | 40.37          | -43.61      | 36.10    | -62.40      | -13.00      | 49.40       | 155         | 87        | 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               | -0.90          | -0.001272       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | VN            | NT               | -4.70          | -0.006643       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | VH            | NT               | -1.30          | -0.001837       | PASS    |

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | -30              | -4.30          | -0.006078       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | -20              | -4.60          | -0.006502       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | -10              | -3.20          | -0.004523       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 0                | -0.70          | -0.000989       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 10               | -1.40          | -0.001979       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 20               | -0.80          | -0.001131       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 30               | -0.60          | -0.000848       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 40               | -1.50          | -0.002120       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 50               | -4.90          | -0.006926       | PASS    |

---End of Attachment---



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