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Rev.: 01
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Appendix B.4

LTE Band 4



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Effective (Isotropic) Radiated Power Output Data

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|-----------|------------|---------|
| Band4 | 1.4MHz | QPSK | 19957 | 1RB#0 | 18.14 | 21.37 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 1RB#2 | 18.62 | 21.85 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 1RB#5 | 18.14 | 21.37 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 6RB#0 | 17.55 | 20.78 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1RB#0 | 18.19 | 21.42 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1RB#2 | 18.61 | 21.84 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1RB#5 | 18.09 | 21.32 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6RB#0 | 17.54 | 20.77 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 1RB#0 | 18.19 | 21.42 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 1RB#2 | 18.65 | 21.88 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 1RB#5 | 18.05 | 21.28 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6RB#0 | 17.50 | 20.73 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 1RB#0 | 17.60 | 20.83 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 1RB#2 | 17.55 | 20.78 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 1RB#5 | 17.56 | 20.79 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0 | 16.59 | 19.82 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1RB#0 | 17.60 | 20.83 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1RB#2 | 17.58 | 20.81 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1RB#5 | 17.61 | 20.84 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0 | 16.53 | 19.76 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#0 | 17.60 | 20.83 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#2 | 17.57 | 20.80 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#5 | 17.56 | 20.79 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0 | 16.55 | 19.78 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 1RB#0 | 16.63 | 19.86 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 1RB#2 | 16.51 | 19.74 | 30.00 | PASS |



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| | | | | | | | | |
|-------|--------|-------|-------|--------|-------|-------|-------|------|
| Band4 | 1.4MHz | 64QAM | 19957 | 1RB#5 | 16.65 | 19.88 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 6RB#0 | 15.76 | 18.99 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#0 | 16.59 | 19.82 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#2 | 16.62 | 19.85 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#5 | 16.63 | 19.86 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 6RB#0 | 15.75 | 18.98 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#0 | 16.59 | 19.82 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#2 | 16.56 | 19.79 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#5 | 16.70 | 19.93 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 6RB#0 | 15.73 | 18.96 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 1RB#0 | 18.19 | 21.42 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 1RB#8 | 18.62 | 21.85 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 1RB#14 | 18.06 | 21.29 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 15RB#0 | 17.54 | 20.77 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 1RB#0 | 18.25 | 21.48 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 1RB#8 | 18.71 | 21.94 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 1RB#14 | 18.06 | 21.29 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 15RB#0 | 17.52 | 20.75 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 1RB#0 | 18.15 | 21.38 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 1RB#8 | 18.59 | 21.82 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 1RB#14 | 18.05 | 21.28 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 15RB#0 | 17.51 | 20.74 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#0 | 17.61 | 20.84 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#8 | 17.47 | 20.70 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#14 | 17.55 | 20.78 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | 16.55 | 19.78 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#0 | 17.60 | 20.83 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#8 | 17.53 | 20.76 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#14 | 17.59 | 20.82 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | 16.52 | 19.75 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#0 | 17.66 | 20.89 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#8 | 17.53 | 20.76 | 30.00 | PASS |



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| | | | | | | | | |
|-------|------|-------|-------|--------|-------|-------|-------|------|
| Band4 | 3MHz | 16QAM | 20385 | 1RB#14 | 17.65 | 20.88 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | 16.57 | 19.80 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 1RB#0 | 16.65 | 19.88 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 1RB#8 | 16.58 | 19.81 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 1RB#14 | 16.71 | 19.94 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 15RB#0 | 15.77 | 19.00 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 1RB#0 | 16.63 | 19.86 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 1RB#8 | 16.58 | 19.81 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 1RB#14 | 16.63 | 19.86 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 15RB#0 | 15.72 | 18.95 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 1RB#0 | 16.60 | 19.83 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 1RB#8 | 16.50 | 19.73 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 1RB#14 | 16.65 | 19.88 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 15RB#0 | 15.81 | 19.04 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 1RB#0 | 18.22 | 21.45 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 1RB#12 | 18.60 | 21.83 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 1RB#24 | 18.04 | 21.27 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 25RB#0 | 17.56 | 20.79 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 1RB#0 | 18.20 | 21.43 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 1RB#12 | 18.65 | 21.88 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 1RB#24 | 18.04 | 21.27 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 25RB#0 | 17.60 | 20.83 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 1RB#0 | 18.22 | 21.45 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 1RB#12 | 18.69 | 21.92 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 1RB#24 | 18.06 | 21.29 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 25RB#0 | 17.59 | 20.82 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#0 | 17.57 | 20.80 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#12 | 17.51 | 20.74 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#24 | 17.59 | 20.82 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | 16.49 | 19.72 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#0 | 17.64 | 20.87 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#12 | 17.59 | 20.82 | 30.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|--------|-------|-------|-------|------|
| Band4 | 5MHz | 16QAM | 20175 | 1RB#24 | 17.61 | 20.84 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0 | 16.55 | 19.78 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#0 | 17.69 | 20.92 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#12 | 17.55 | 20.78 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#24 | 17.61 | 20.84 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 25RB#0 | 16.53 | 19.76 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 19975 | 1RB#0 | 16.72 | 19.95 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 19975 | 1RB#12 | 16.57 | 19.80 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 19975 | 1RB#24 | 16.63 | 19.86 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 19975 | 25RB#0 | 15.85 | 19.08 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20175 | 1RB#0 | 16.66 | 19.89 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20175 | 1RB#12 | 16.60 | 19.83 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20175 | 1RB#24 | 16.58 | 19.81 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20175 | 25RB#0 | 15.82 | 19.05 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20375 | 1RB#0 | 16.65 | 19.88 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20375 | 1RB#12 | 16.50 | 19.73 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20375 | 1RB#24 | 16.69 | 19.92 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20375 | 25RB#0 | 15.85 | 19.08 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 1RB#0 | 18.15 | 21.38 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 1RB#24 | 18.70 | 21.93 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 1RB#49 | 18.03 | 21.26 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 50RB#0 | 17.54 | 20.77 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 1RB#0 | 18.15 | 21.38 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 1RB#24 | 18.68 | 21.91 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 1RB#49 | 18.13 | 21.36 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 50RB#0 | 17.53 | 20.76 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 1RB#0 | 18.24 | 21.47 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 1RB#24 | 18.66 | 21.89 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 1RB#49 | 18.02 | 21.25 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 50RB#0 | 17.59 | 20.82 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#0 | 17.65 | 20.88 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#24 | 17.45 | 20.68 | 30.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|--------|-------|-------|-------|------|
| Band4 | 10MHz | 16QAM | 20000 | 1RB#49 | 17.55 | 20.78 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 50RB#0 | 16.60 | 19.83 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#0 | 17.61 | 20.84 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#24 | 17.46 | 20.69 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#49 | 17.63 | 20.86 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0 | 16.59 | 19.82 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#0 | 17.67 | 20.90 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#24 | 17.85 | 21.08 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#49 | 18.02 | 21.25 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0 | 16.99 | 20.22 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 1RB#0 | 16.97 | 20.20 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 1RB#24 | 16.88 | 20.11 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 1RB#49 | 16.99 | 20.22 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 50RB#0 | 16.13 | 19.36 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 1RB#0 | 16.97 | 20.20 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 1RB#24 | 16.88 | 20.11 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 1RB#49 | 16.99 | 20.22 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 50RB#0 | 16.14 | 19.37 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 1RB#0 | 17.05 | 20.28 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 1RB#24 | 16.99 | 20.22 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 1RB#49 | 17.03 | 20.26 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 50RB#0 | 16.20 | 19.43 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 1RB#0 | 18.52 | 21.75 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 1RB#38 | 19.02 | 22.25 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 1RB#74 | 18.40 | 21.63 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 75RB#0 | 17.89 | 21.12 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 1RB#0 | 18.60 | 21.83 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 1RB#38 | 19.10 | 22.33 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 1RB#74 | 18.40 | 21.63 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 75RB#0 | 17.52 | 20.75 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 1RB#0 | 18.18 | 21.41 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 1RB#38 | 18.66 | 21.89 | 30.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 15MHz | QPSK | 20325 | 1RB#74 | 18.00 | 21.23 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 75RB#0 | 17.52 | 20.75 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#0 | 17.58 | 20.81 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#38 | 17.51 | 20.74 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#74 | 17.61 | 20.84 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0 | 16.59 | 19.82 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#0 | 17.66 | 20.89 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#38 | 17.56 | 20.79 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#74 | 17.61 | 20.84 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0 | 16.54 | 19.77 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#0 | 17.63 | 20.86 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#38 | 17.52 | 20.75 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#74 | 17.60 | 20.83 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0 | 16.57 | 19.80 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 1RB#0 | 16.63 | 19.86 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 1RB#38 | 16.55 | 19.78 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 1RB#74 | 16.59 | 19.82 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 75RB#0 | 15.78 | 19.01 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 1RB#0 | 17.00 | 20.23 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 1RB#38 | 16.89 | 20.12 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 1RB#74 | 17.08 | 20.31 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 75RB#0 | 16.21 | 19.44 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 1RB#0 | 17.05 | 20.28 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 1RB#38 | 16.97 | 20.20 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 1RB#74 | 17.01 | 20.24 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 75RB#0 | 16.14 | 19.37 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 1RB#0 | 18.61 | 21.84 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 1RB#49 | 19.01 | 22.24 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 1RB#99 | 18.51 | 21.74 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | 17.99 | 21.22 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 1RB#0 | 18.51 | 21.74 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 1RB#49 | 18.97 | 22.20 | 30.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 20MHz | QPSK | 20175 | 1RB#99 | 18.41 | 21.64 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | 17.92 | 21.15 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 1RB#0 | 18.53 | 21.76 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 1RB#49 | 18.97 | 22.20 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 1RB#99 | 18.51 | 21.74 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | 17.98 | 21.21 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#0 | 18.08 | 21.31 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#49 | 17.97 | 21.20 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#99 | 17.90 | 21.13 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 16.94 | 20.17 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#0 | 18.02 | 21.25 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#49 | 17.84 | 21.07 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#99 | 17.93 | 21.16 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 16.98 | 20.21 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#0 | 18.02 | 21.25 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#49 | 17.85 | 21.08 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#99 | 17.97 | 21.20 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 16.90 | 20.13 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 1RB#0 | 17.02 | 20.25 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 1RB#49 | 16.94 | 20.17 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 1RB#99 | 16.95 | 20.18 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | 16.20 | 19.43 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 1RB#0 | 17.07 | 20.30 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 1RB#49 | 16.94 | 20.17 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 1RB#99 | 16.69 | 19.92 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | 15.79 | 19.02 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 1RB#0 | 16.70 | 19.93 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 1RB#49 | 16.52 | 19.75 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 1RB#99 | 16.64 | 19.87 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | 15.82 | 19.05 | 30.00 | PASS |



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Peak-to-Average Ratio(CCDF)

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | 5.24 | 13 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | 5.54 | 13 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | 5.34 | 13 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 6.06 | 13 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 6.36 | 13 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 6.18 | 13 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | 6.36 | 13 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | 6.60 | 13 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | 6.50 | 13 | PASS |



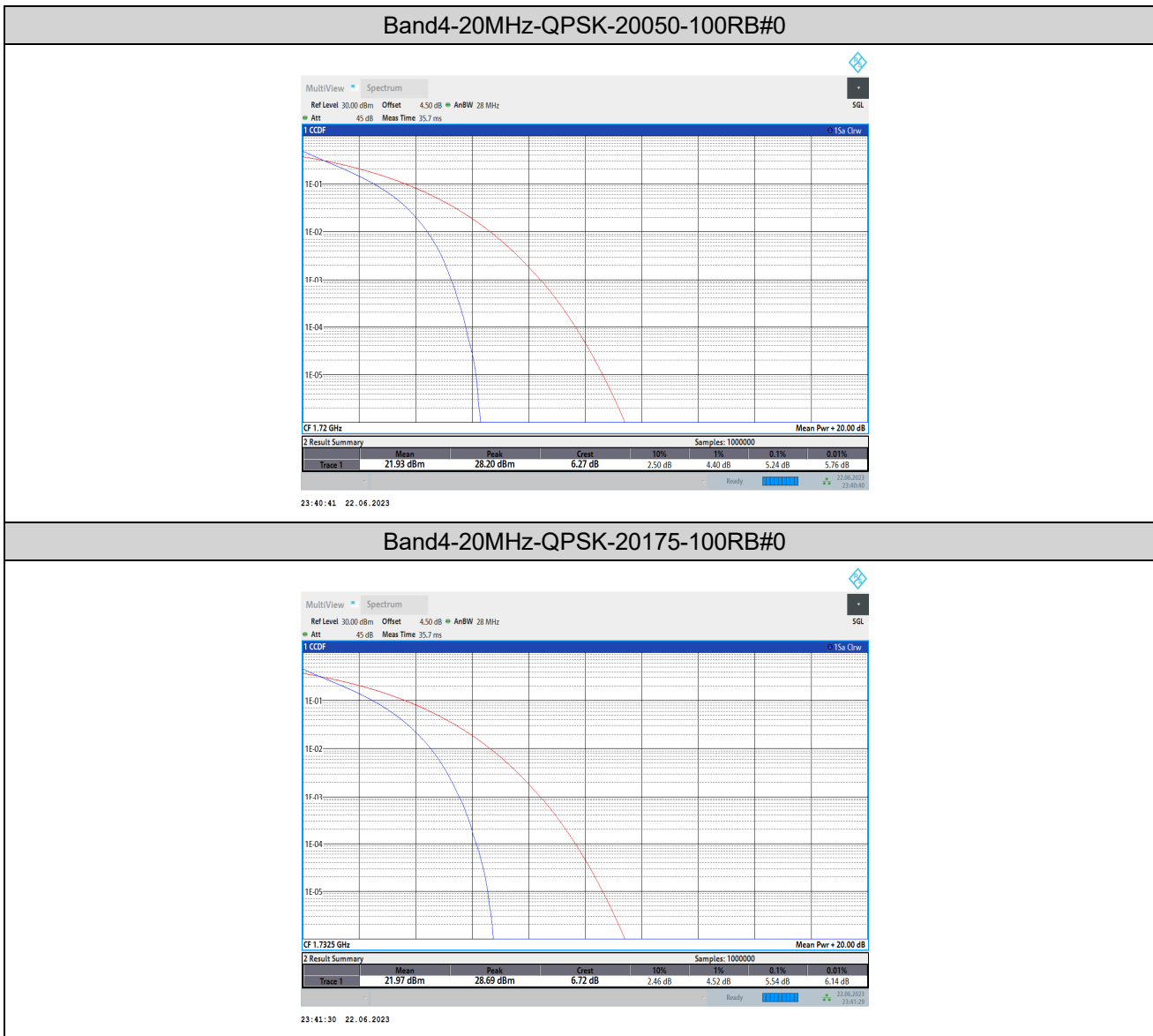
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Test Graphs

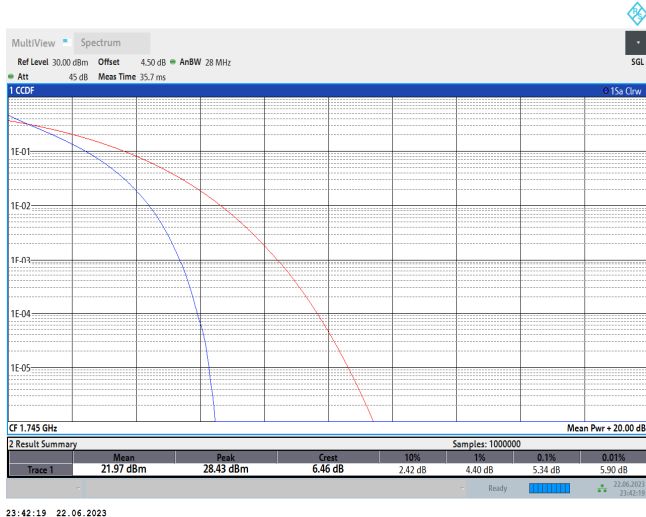


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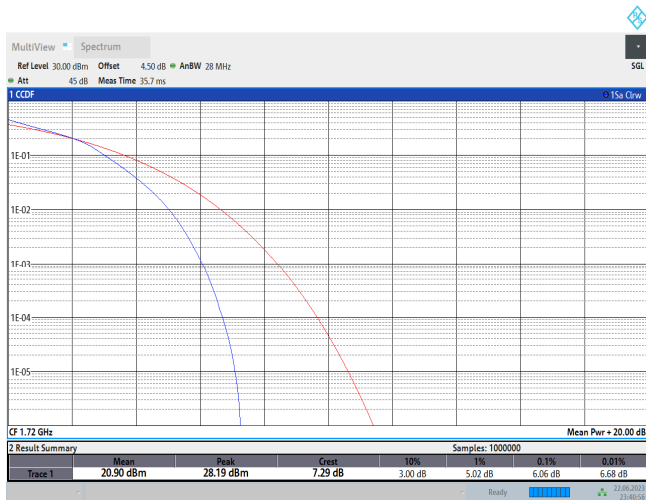
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Band4-20MHz-QPSK-20300-100RB#0



23:42:19 22.06.2023

Band4-20MHz-16QAM-20050-100RB#0



23:40:57 22.06.2023

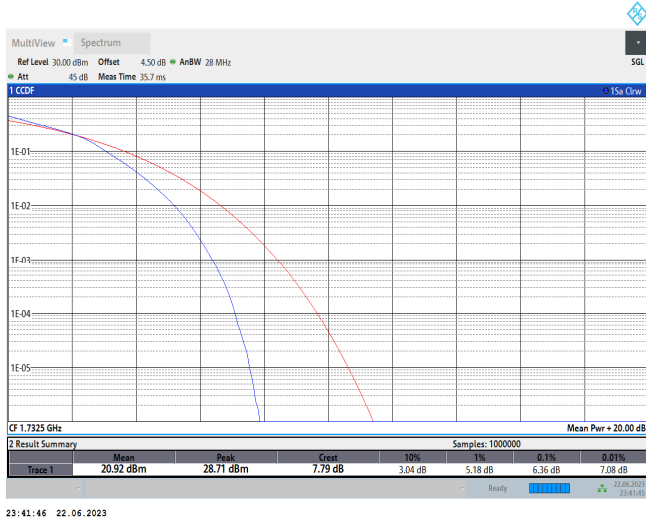


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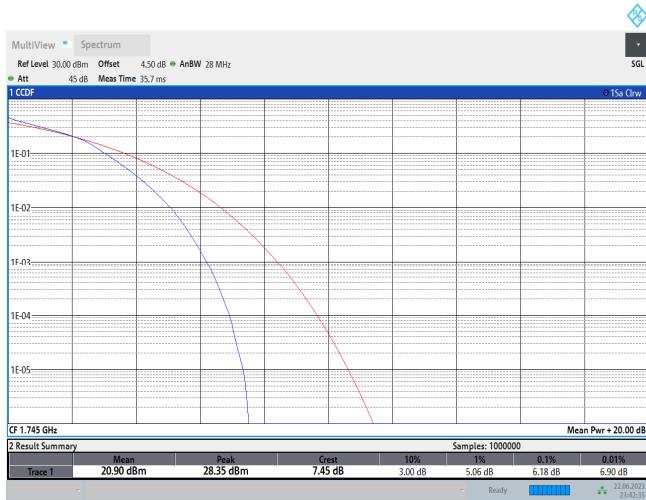
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Band4-20MHz-16QAM-20175-100RB#0



23:41:46 22.06.2023

Band4-20MHz-16QAM-20300-100RB#0



23:42:35 22.06.2023

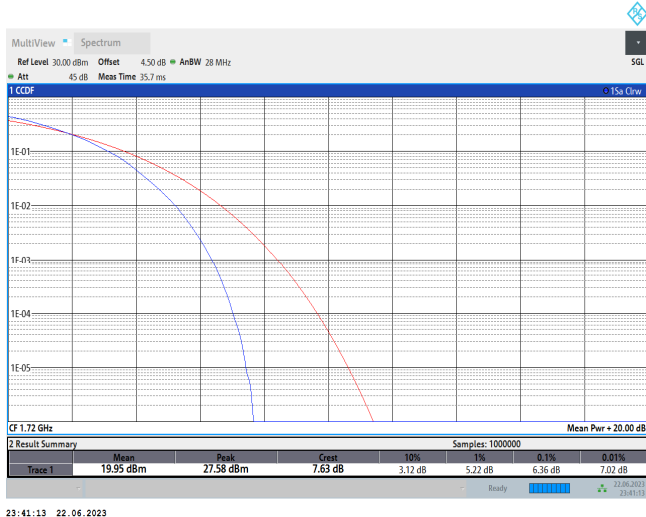


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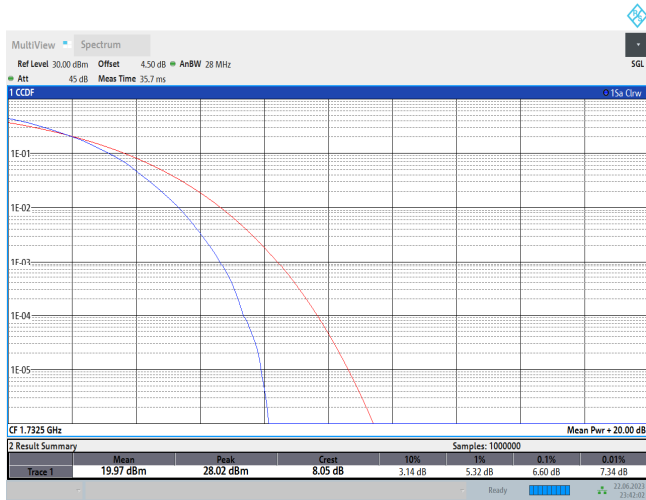
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Band4-20MHz-64QAM-20050-100RB#0



23:41:13 22.06.2023

Band4-20MHz-64QAM-20175-100RB#0



23:42:02 22.06.2023

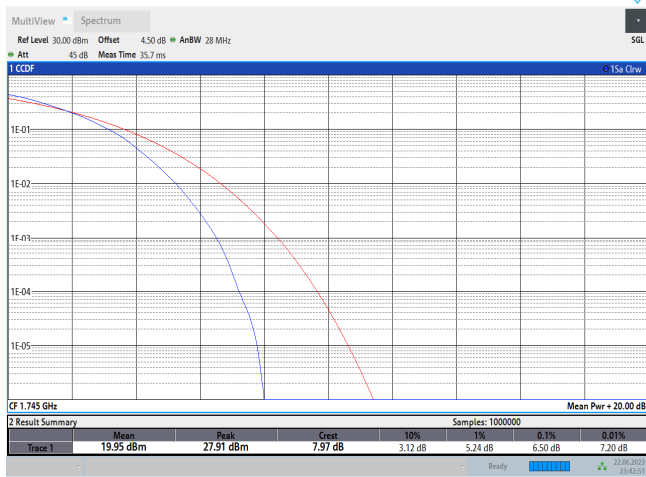


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Band4-20MHz-64QAM-20300-100RB#0



23:42:52 22.06.2023



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Modulation Characteristics

Test Result

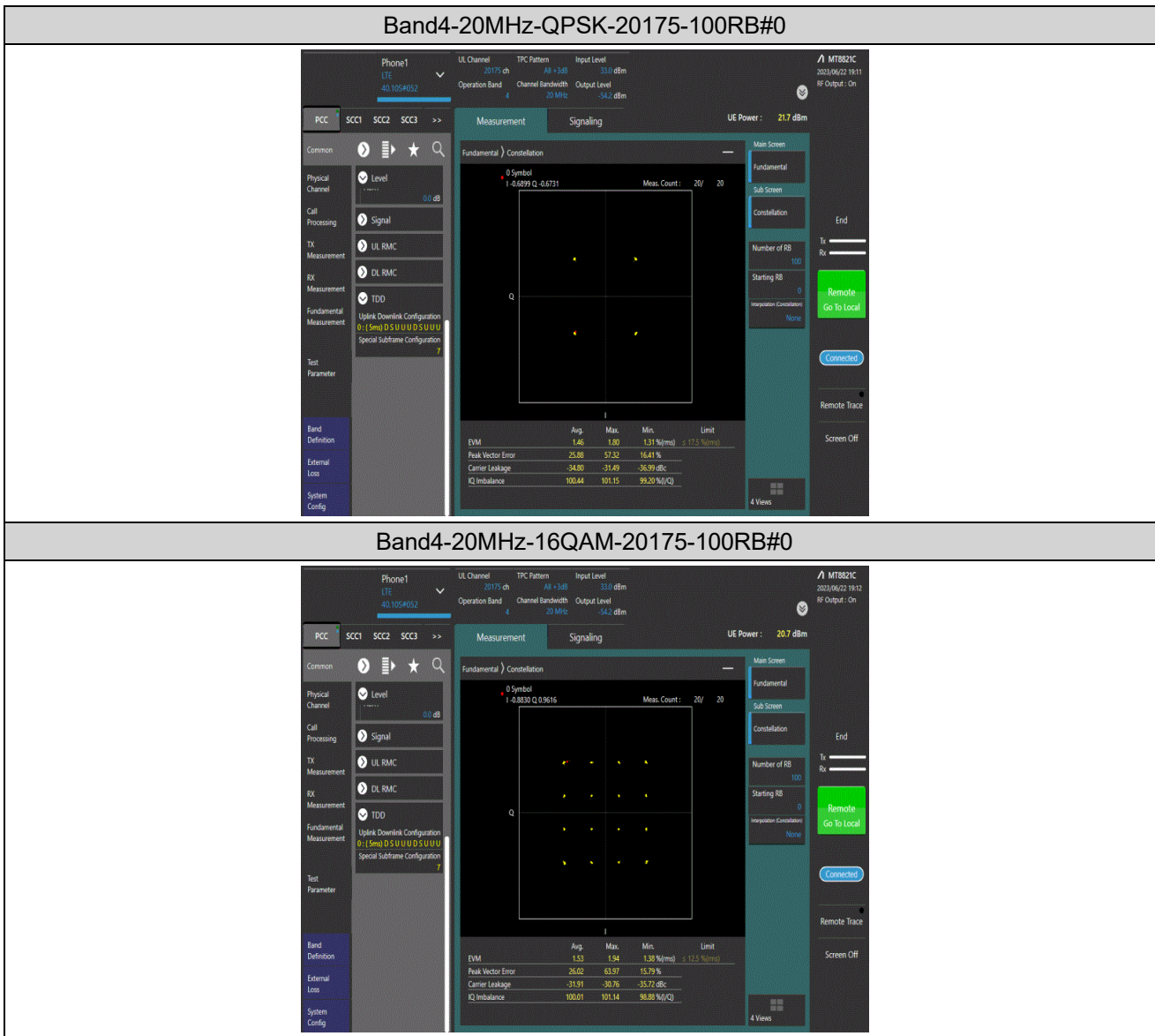
| Band | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|-------|-----------|------------|---------|------------------|--------|---------|
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | PASS | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | PASS | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | PASS | PASS |



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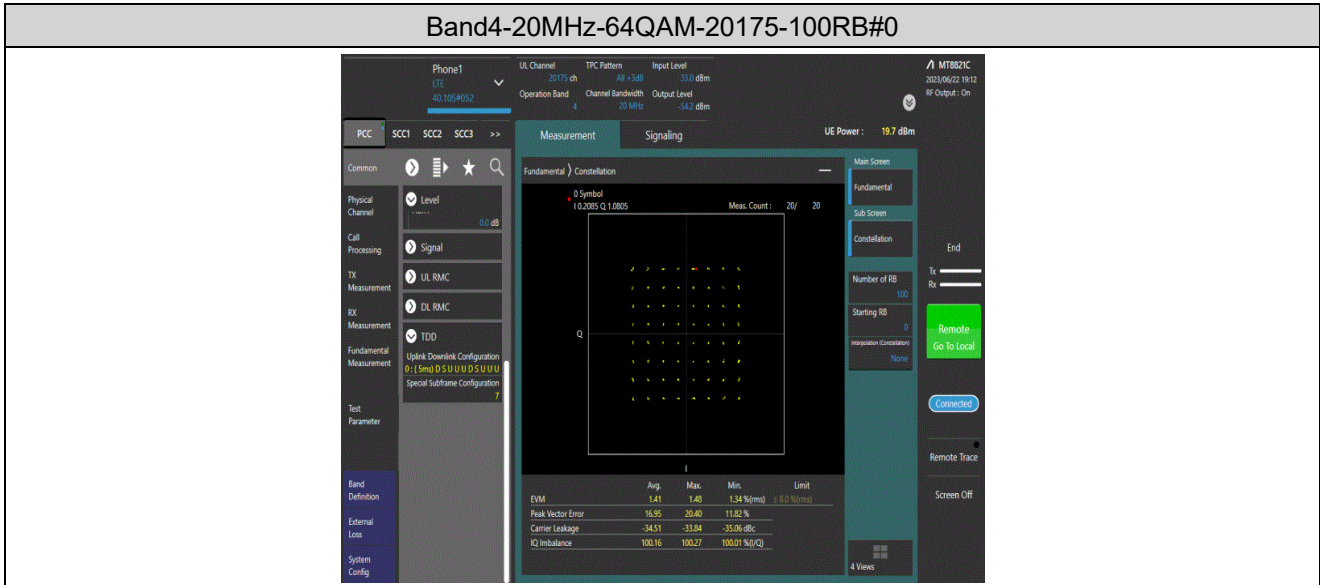
Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band4 | 1.4MHz | QPSK | 19957 | 6RB#0 | 1.094 | 1.27 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6RB#0 | 1.086 | 1.25 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6RB#0 | 1.080 | 1.25 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0 | 1.089 | 1.28 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0 | 1.086 | 1.27 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0 | 1.083 | 1.25 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 6RB#0 | 1.087 | 1.24 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 6RB#0 | 1.089 | 1.27 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 6RB#0 | 1.085 | 1.25 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 15RB#0 | 2.688 | 2.83 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 15RB#0 | 2.683 | 2.87 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 15RB#0 | 2.674 | 2.86 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | 2.686 | 2.90 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | 2.681 | 2.86 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | 2.690 | 2.89 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 15RB#0 | 2.683 | 2.87 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 15RB#0 | 2.675 | 2.88 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 15RB#0 | 2.685 | 2.89 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 25RB#0 | 4.468 | 4.80 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 25RB#0 | 4.476 | 4.76 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 25RB#0 | 4.472 | 4.81 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | 4.478 | 4.75 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0 | 4.461 | 4.89 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 25RB#0 | 4.460 | 4.76 | PASS |
| Band4 | 5MHz | 64QAM | 19975 | 25RB#0 | 4.459 | 4.81 | PASS |
| Band4 | 5MHz | 64QAM | 20175 | 25RB#0 | 4.468 | 4.77 | PASS |
| Band4 | 5MHz | 64QAM | 20375 | 25RB#0 | 4.475 | 4.82 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 50RB#0 | 8.926 | 9.34 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 50RB#0 | 8.917 | 9.42 | PASS |



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| | | | | | | | |
|-------|-------|-------|-------|---------|--------|-------|------|
| Band4 | 10MHz | QPSK | 20350 | 50RB#0 | 8.911 | 9.36 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 50RB#0 | 8.928 | 9.38 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0 | 8.938 | 9.54 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0 | 8.923 | 9.42 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 50RB#0 | 8.950 | 9.60 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 50RB#0 | 8.914 | 9.36 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 50RB#0 | 8.951 | 9.34 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 75RB#0 | 13.469 | 14.67 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 75RB#0 | 13.484 | 14.40 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 75RB#0 | 13.490 | 14.28 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0 | 13.430 | 14.52 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0 | 13.434 | 14.46 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0 | 13.402 | 14.37 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 75RB#0 | 13.437 | 14.37 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 75RB#0 | 13.488 | 14.61 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 75RB#0 | 13.418 | 14.46 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | 17.879 | 18.76 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | 17.905 | 18.76 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | 17.861 | 19.04 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 17.828 | 18.96 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 17.913 | 19.32 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 17.854 | 18.88 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | 17.912 | 18.76 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | 17.880 | 18.84 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | 17.819 | 18.76 | PASS |



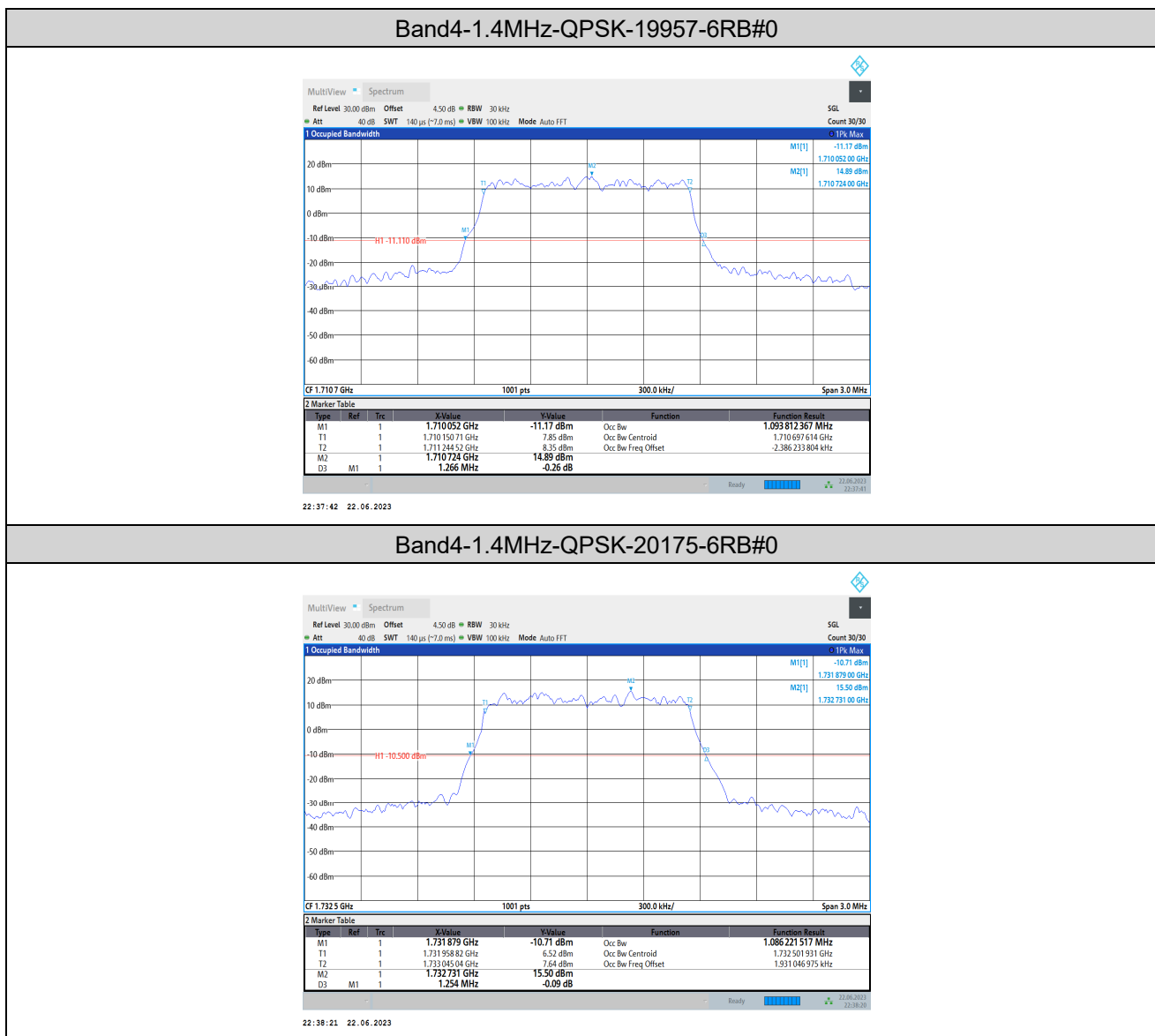
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Test Graphs

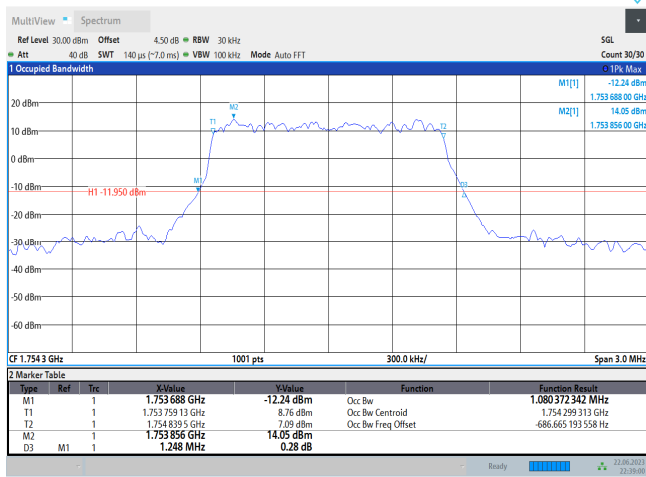


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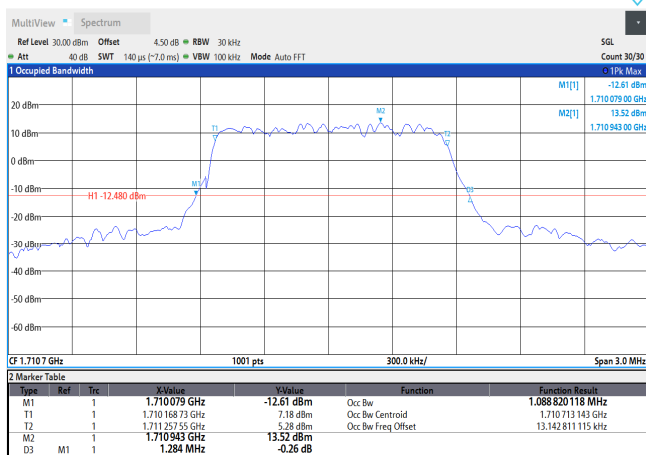
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Band4-1.4MHz-QPSK-20393-6RB#0



22:39:00 22.06.2023

Band4-1.4MHz-16QAM-19957-6RB#0



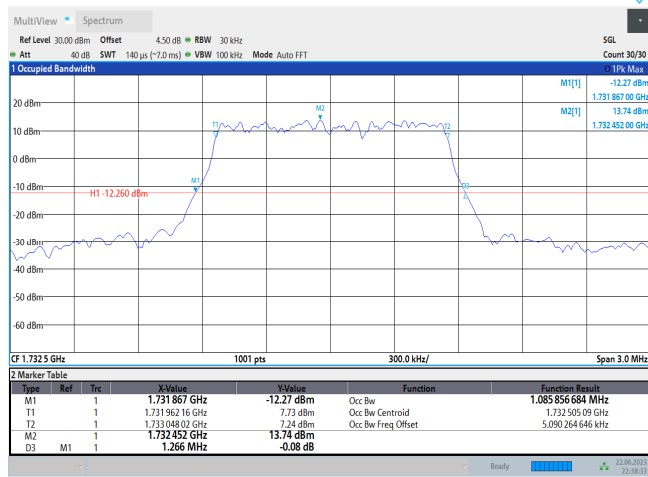
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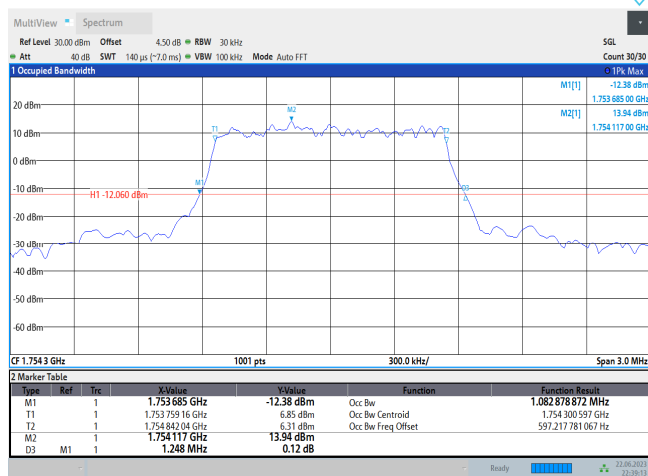
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Band4-1.4MHz-16QAM-20175-6RB#0



22:38:34 22.06.2023

Band4-1.4MHz-16QAM-20393-6RB#0



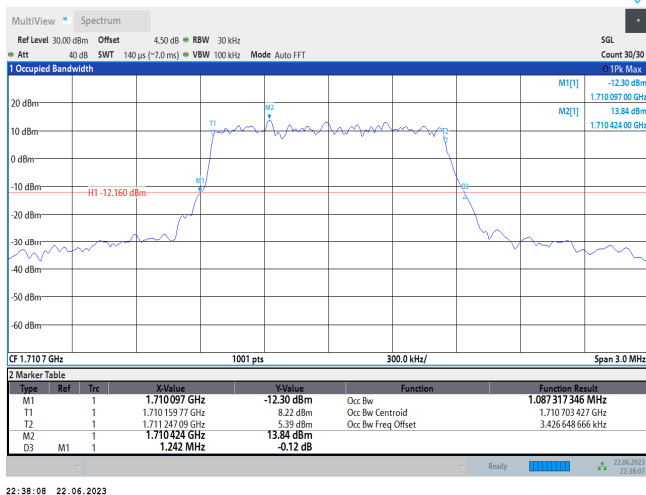
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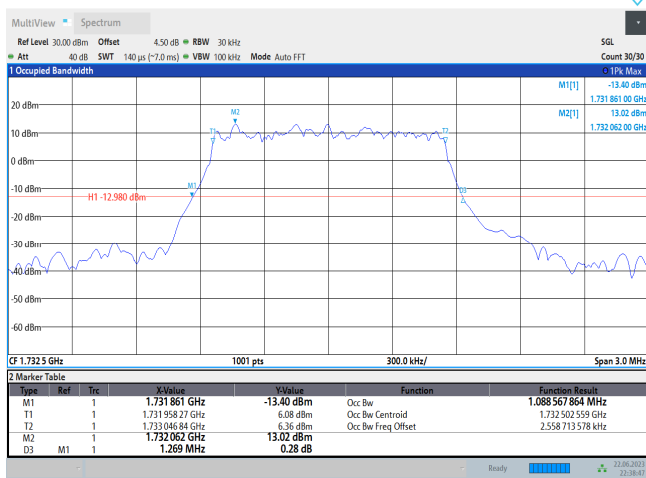
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Band4-1.4MHz-64QAM-19957-6RB#0



22:38:08 22.06.2023

Band4-1.4MHz-64QAM-20175-6RB#0



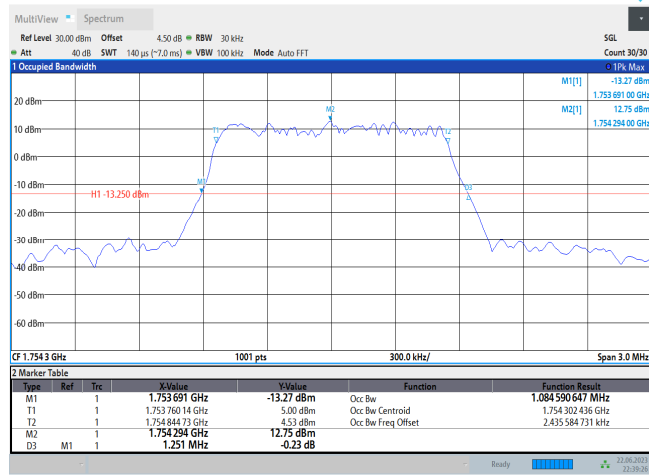
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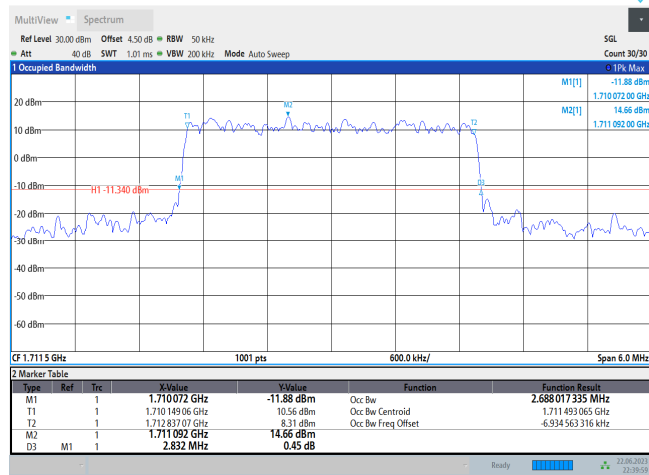
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Band4-1.4MHz-64QAM-20393-6RB#0



22:39:26 22.06.2023

Band4-3MHz-QPSK-19965-15RB#0



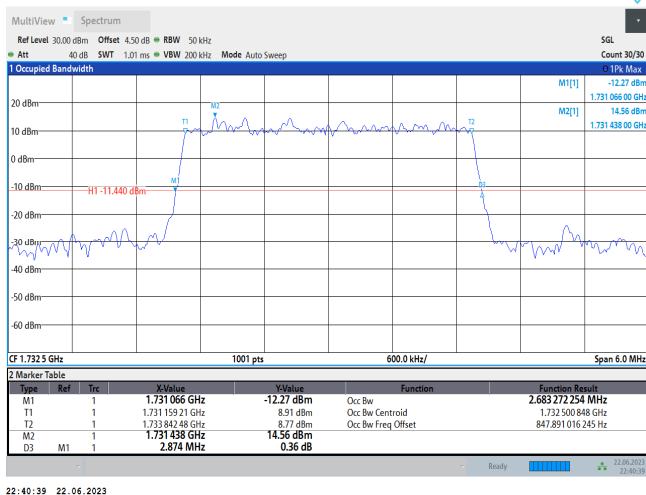
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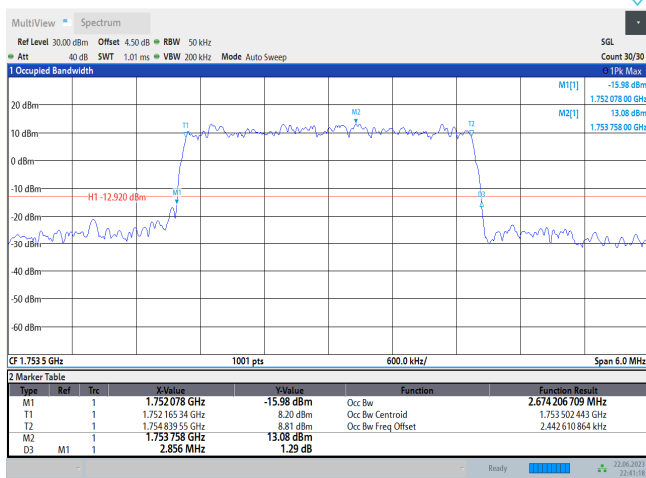
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Band4-3MHz-QPSK-20175-15RB#0



22:40:39 22.06.2023

Band4-3MHz-QPSK-20385-15RB#0



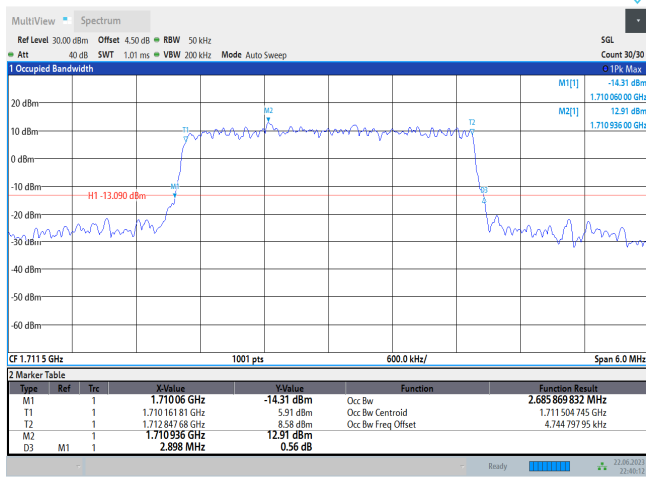
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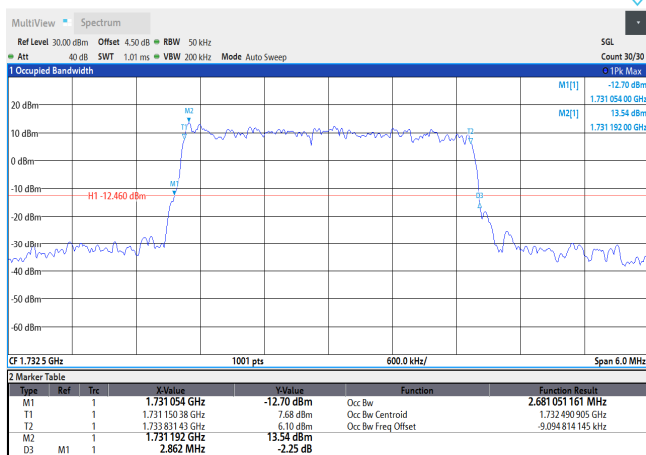
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Band4-3MHz-16QAM-19965-15RB#0



22:40:13 22.06.2023

Band4-3MHz-16QAM-20175-15RB#0



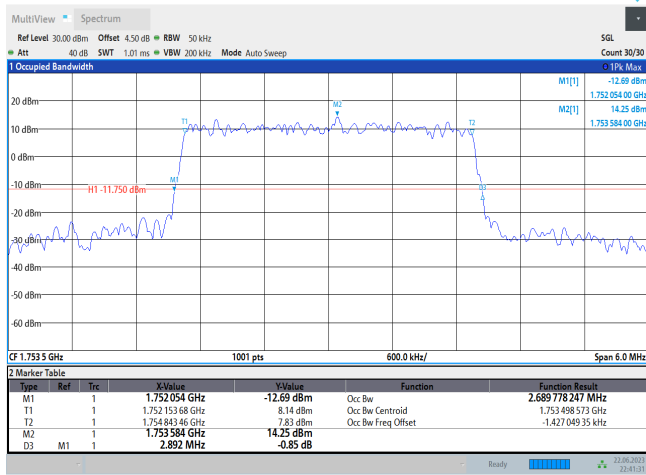
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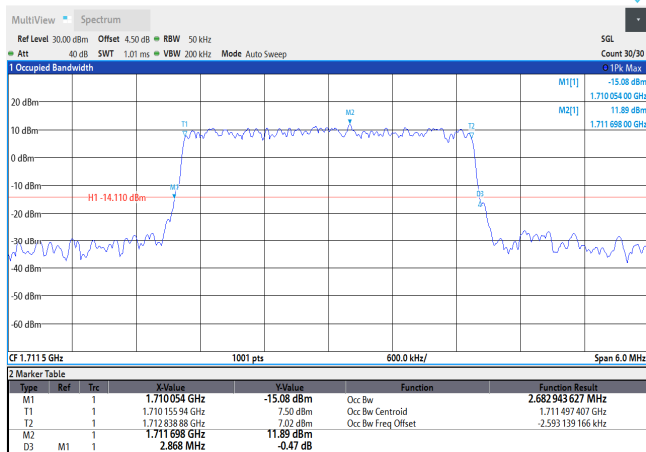
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Band4-3MHz-16QAM-20385-15RB#0



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Band4-3MHz-64QAM-19965-15RB#0



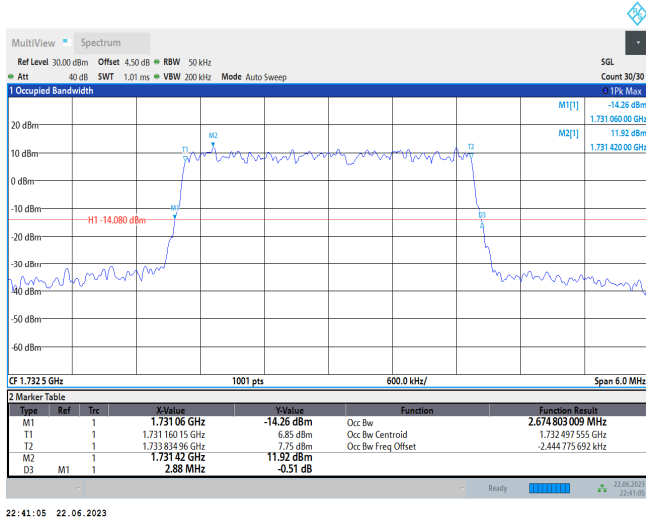
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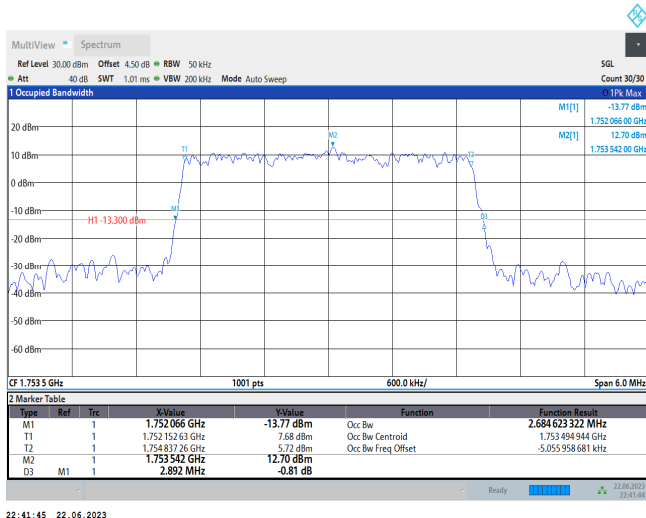
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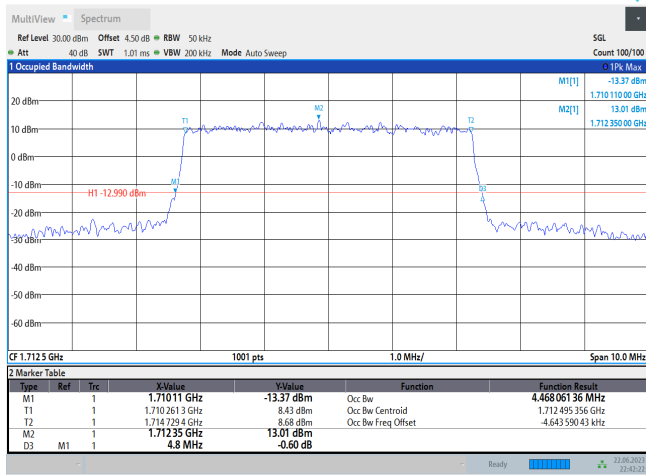


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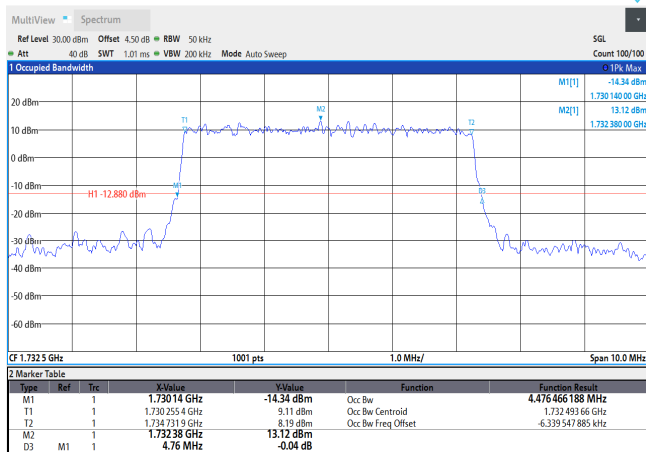
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Band4-5MHz-QPSK-19975-25RB#0



22:42:23 22.06.2023

Band4-5MHz-QPSK-20175-25RB#0



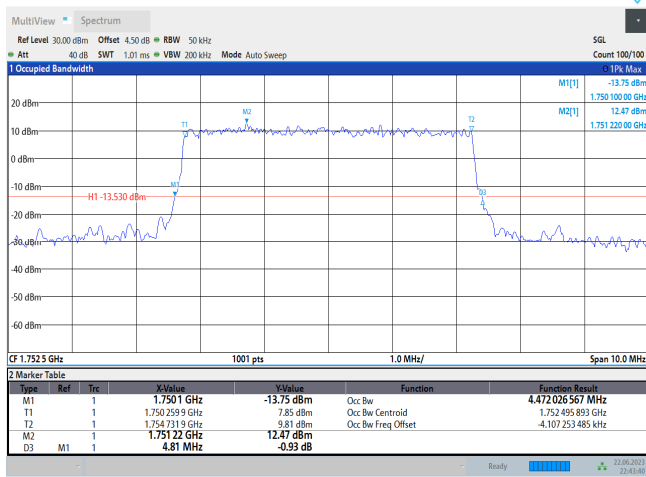
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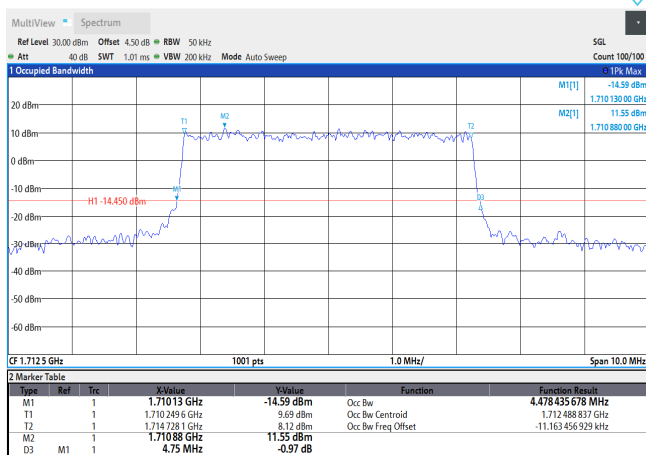
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Band4-5MHz-QPSK-20375-25RB#0



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Band4-5MHz-16QAM-19975-25RB#0



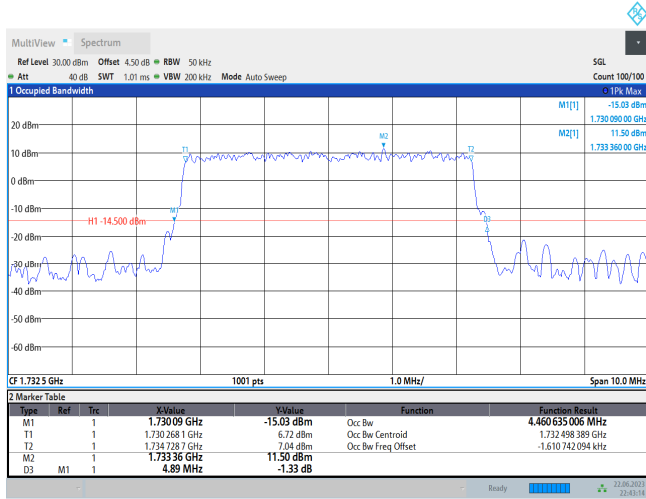
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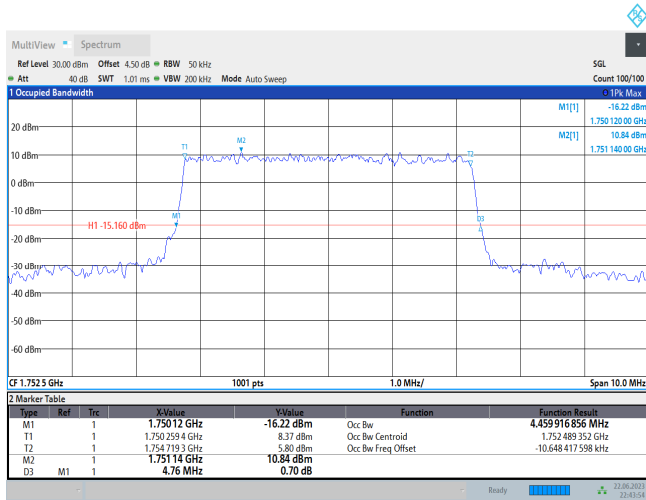
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Band4-5MHz-16QAM-20175-25RB#0



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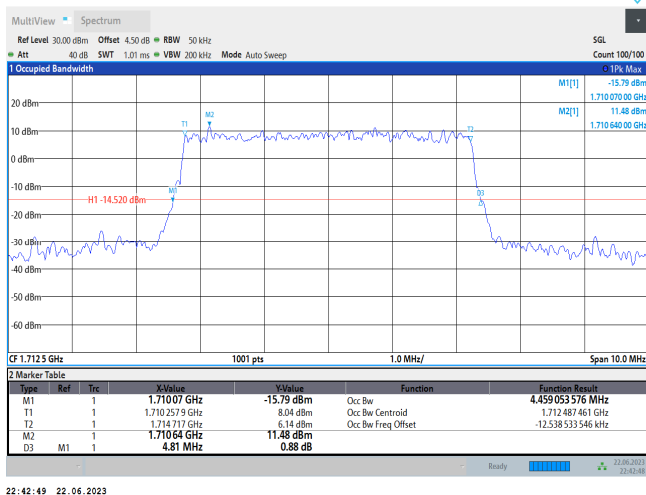
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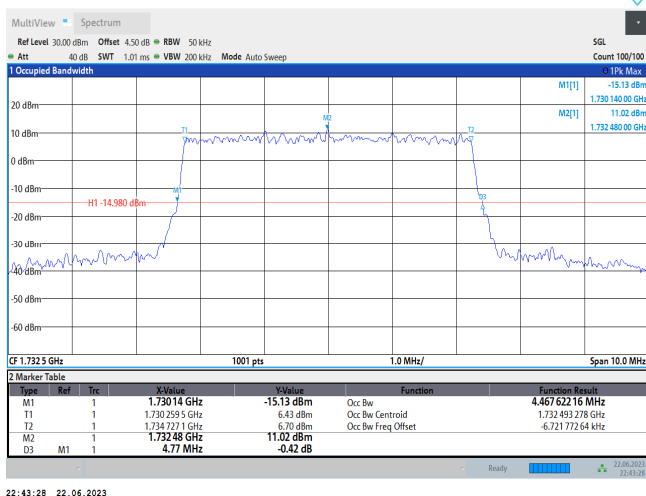
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Band4-5MHz-64QAM-19975-25RB#0



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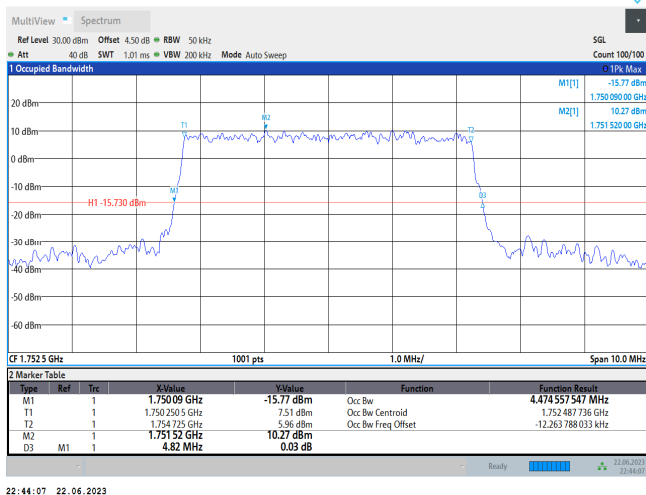


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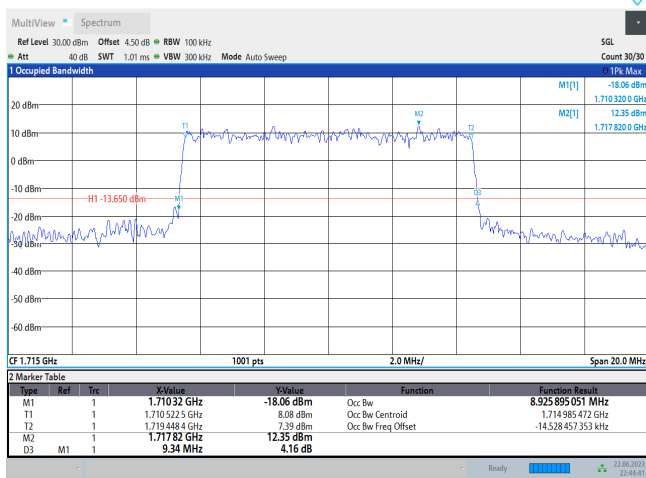
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Band4-5MHz-64QAM-20375-25RB#0



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Band4-10MHz-QPSK-20000-50RB#0



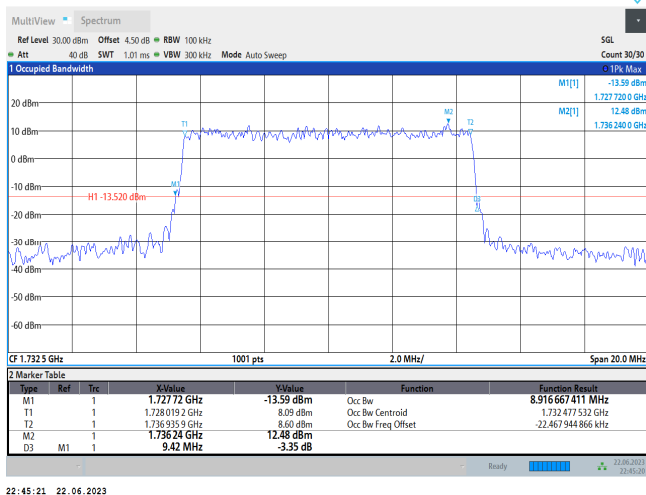
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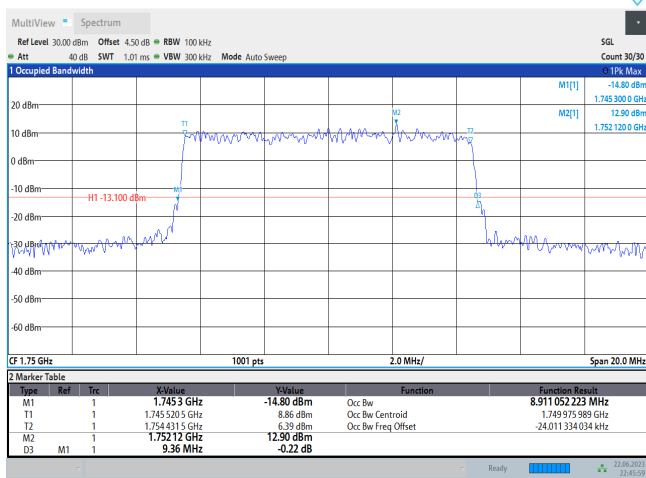
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Band4-10MHz-QPSK-20175-50RB#0



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Band4-10MHz-QPSK-20350-50RB#0



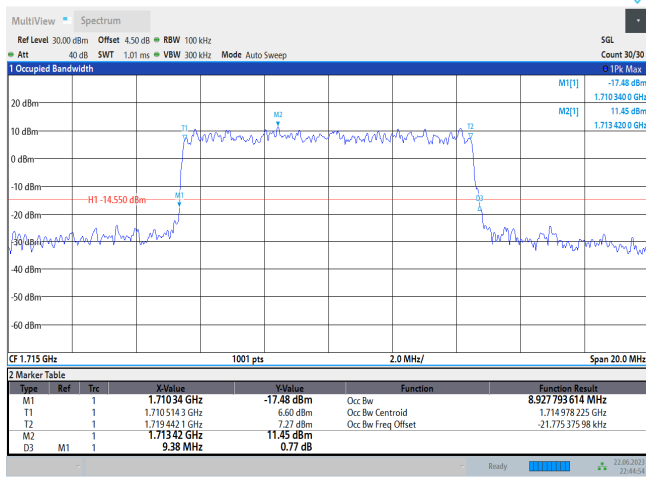
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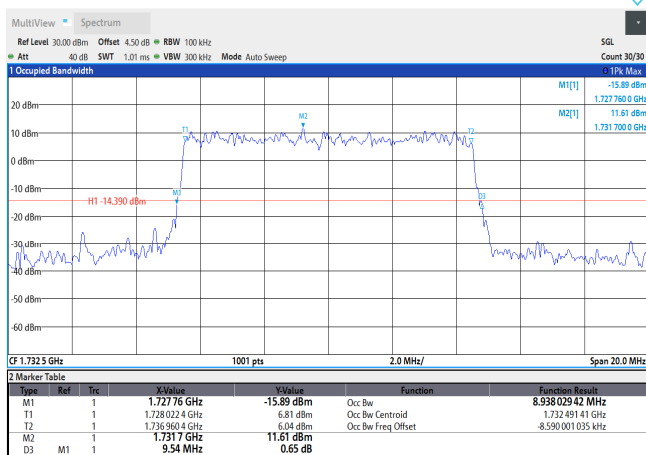
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Band4-10MHz-16QAM-20000-50RB#0



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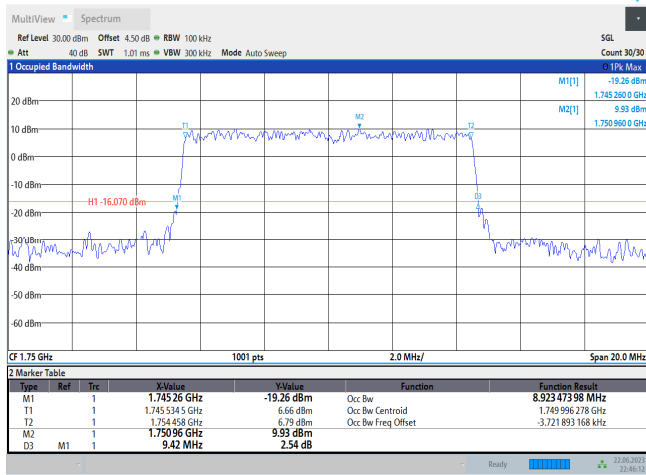
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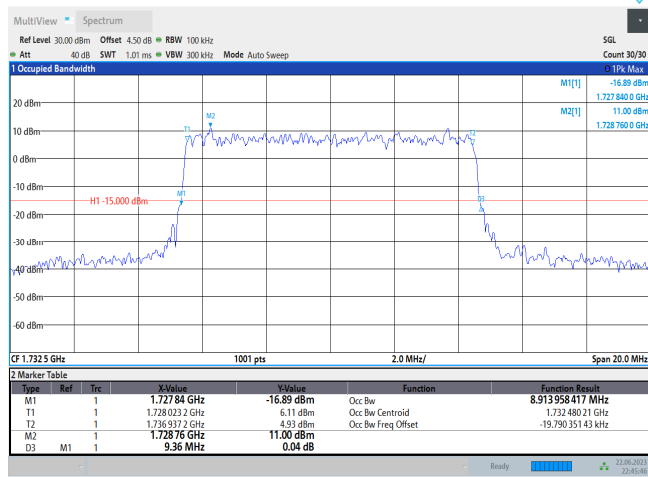
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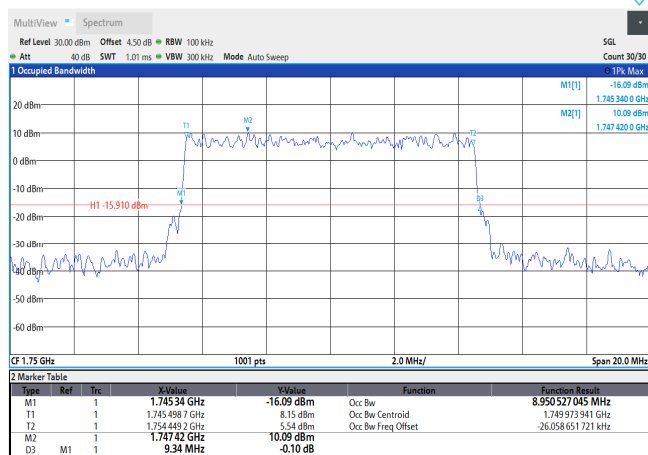
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Band4-10MHz-64QAM-20350-50RB#0



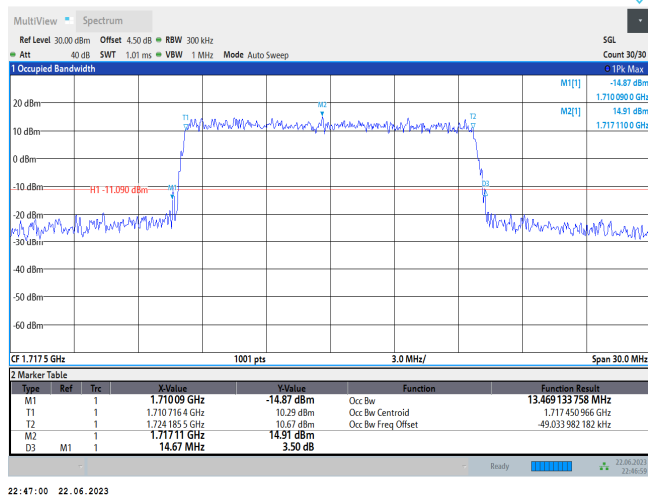
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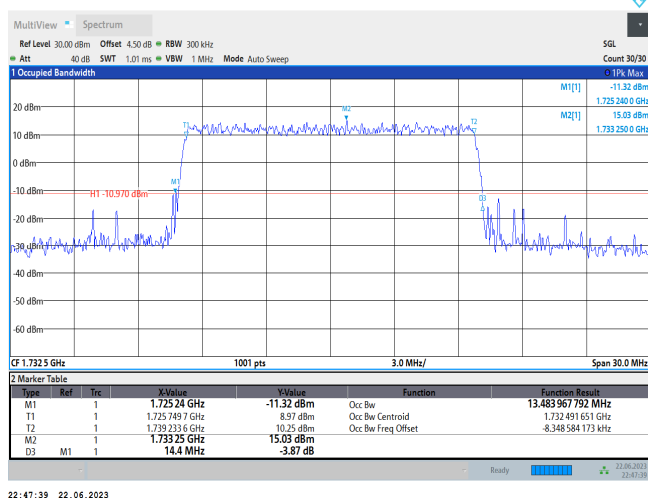
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Band4-15MHz-QPSK-20025-75RB#0



Band4-15MHz-QPSK-20175-75RB#0

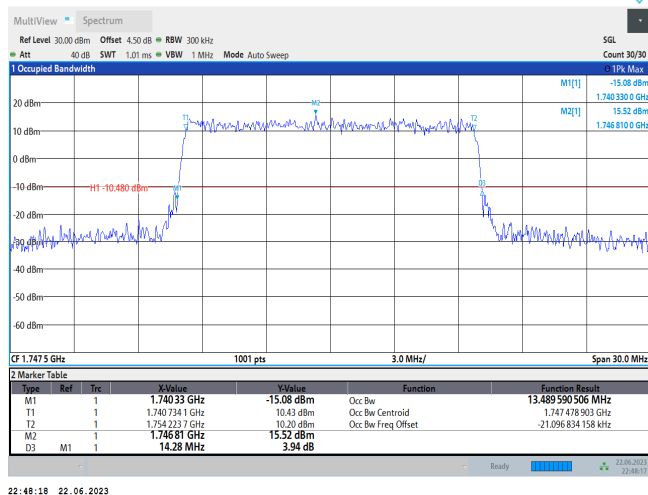


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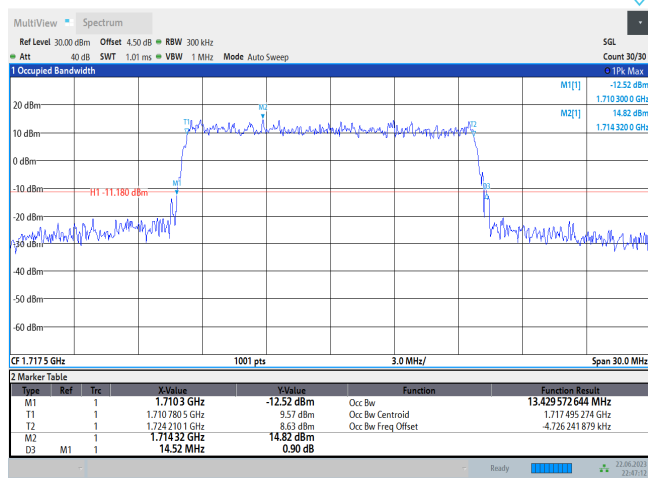
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Band4-15MHz-QPSK-20325-75RB#0



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Band4-15MHz-16QAM-20025-75RB#0



22:47:13 22.06.2023

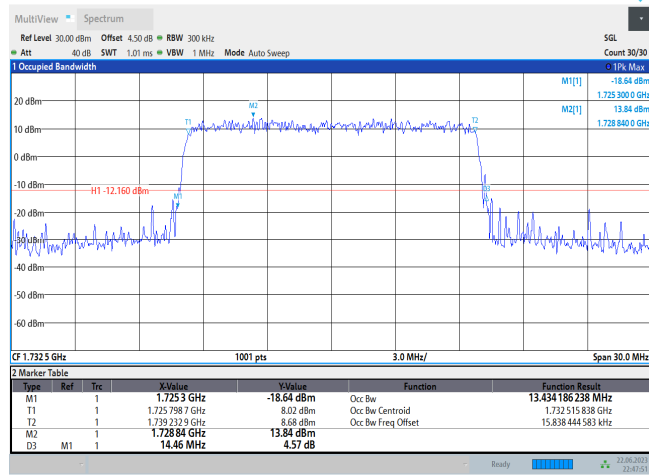


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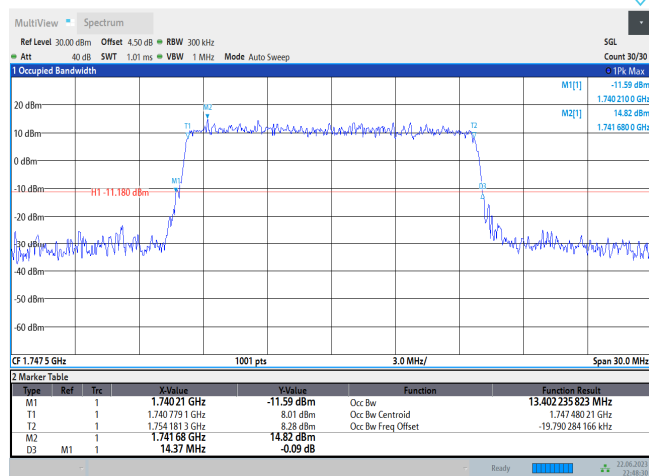
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Band4-15MHz-16QAM-20175-75RB#0



22:47:52 22.06.2023

Band4-15MHz-16QAM-20325-75RB#0



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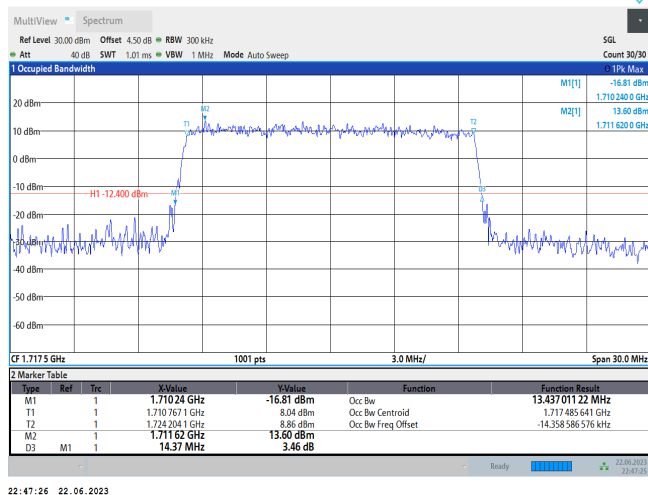
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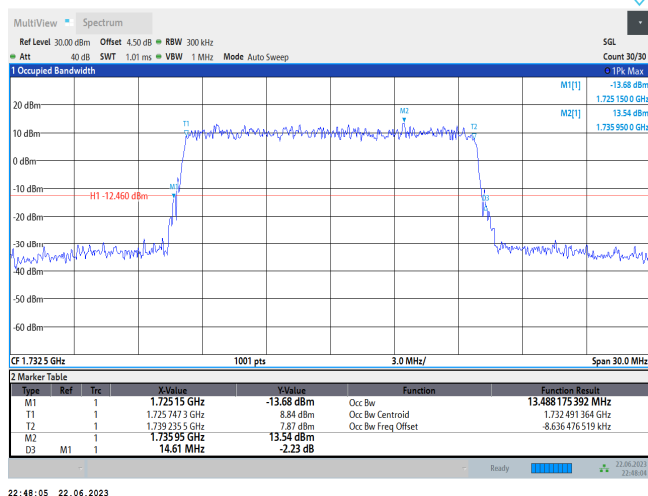
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Band4-15MHz-64QAM-20025-75RB#0



Band4-15MHz-64QAM-20175-75RB#0

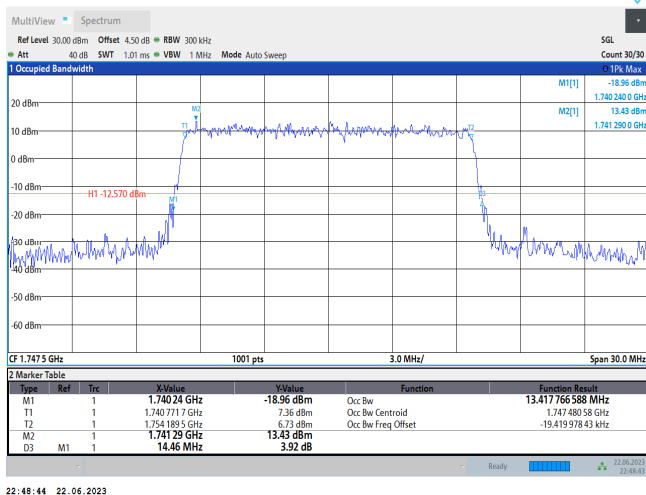


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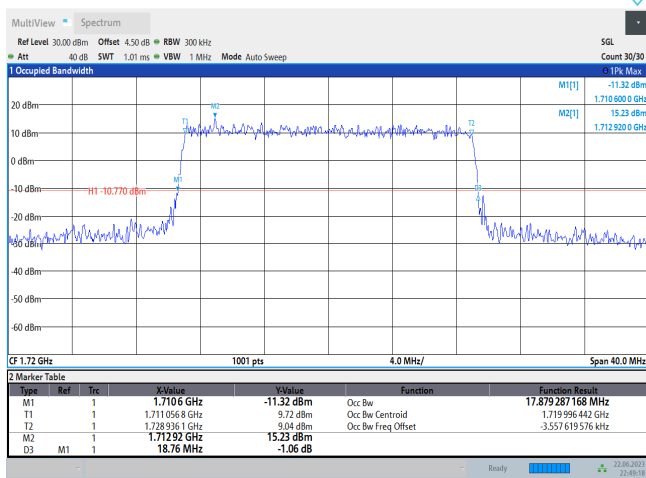
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Band4-15MHz-64QAM-20325-75RB#0



22:48:44 22.06.2023

Band4-20MHz-QPSK-20050-100RB#0



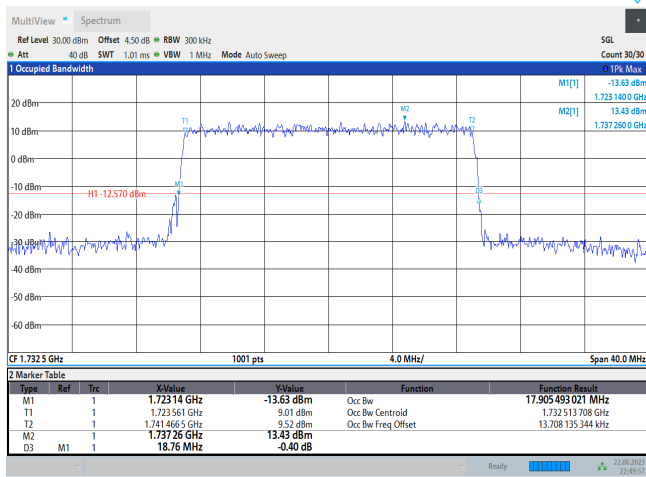
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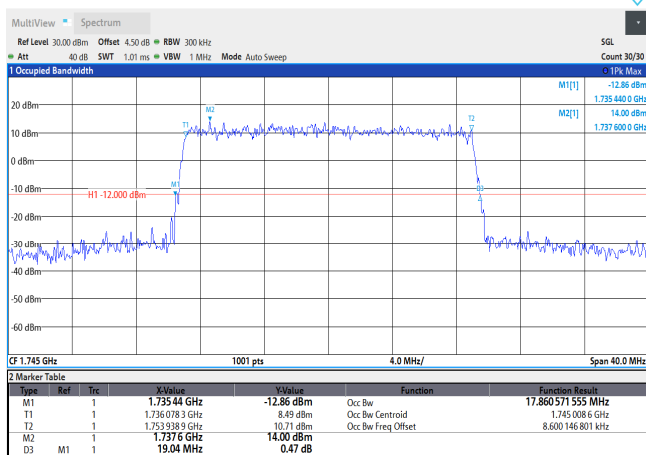
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Band4-20MHz-QPSK-20175-100RB#0



22:49:57 22.06.2023

Band4-20MHz-QPSK-20300-100RB#0



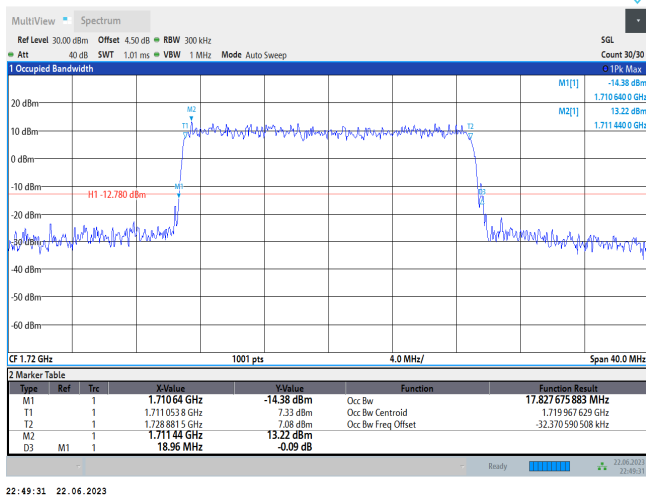
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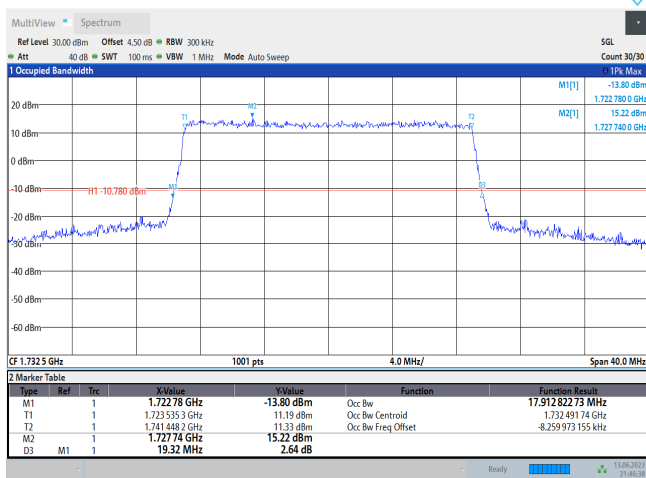
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Band4-20MHz-16QAM-20050-100RB#0



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Band4-20MHz-16QAM-20175-100RB#0



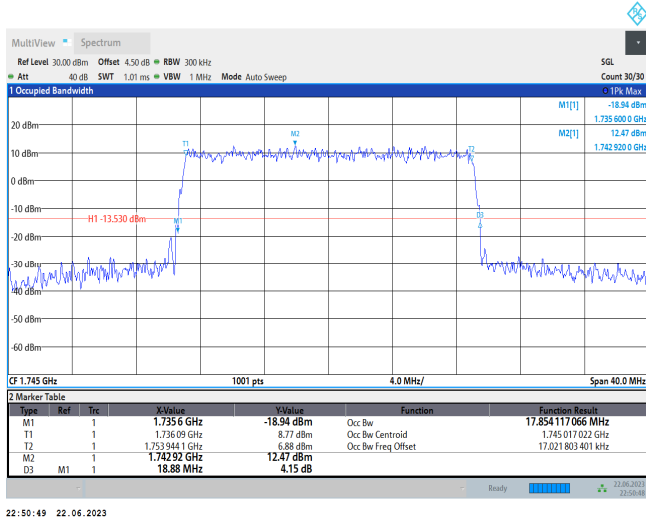
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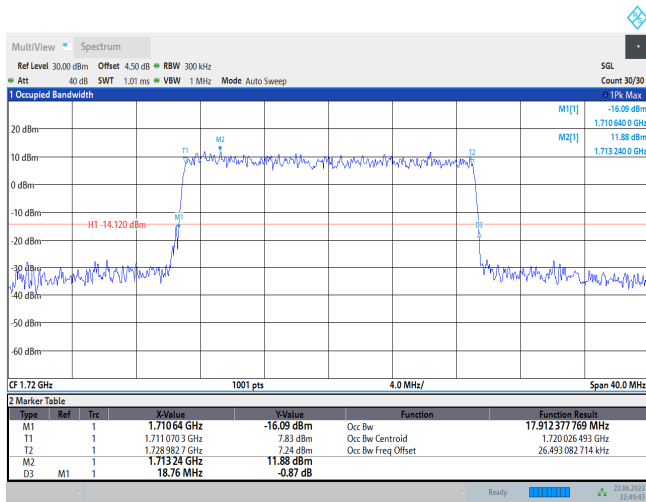
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Band4-20MHz-16QAM-20300-100RB#0



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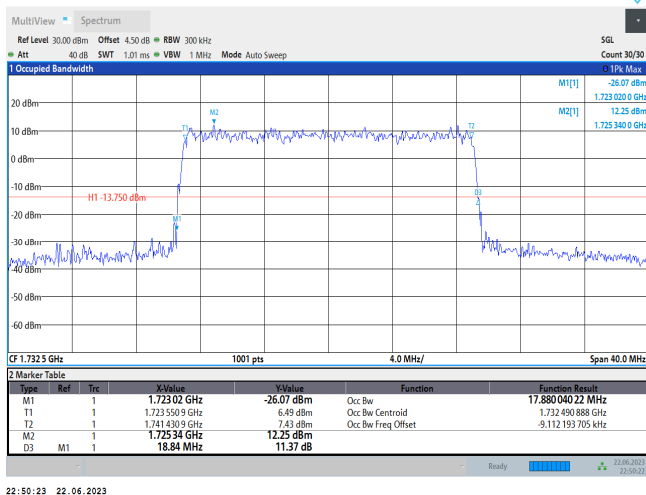
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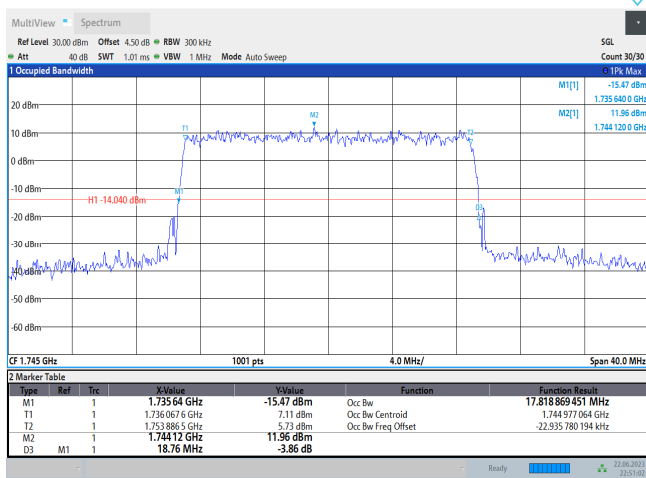
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Band4-20MHz-64QAM-20175-100RB#0



22:50:23 22.06.2023

Band4-20MHz-64QAM-20300-100RB#0



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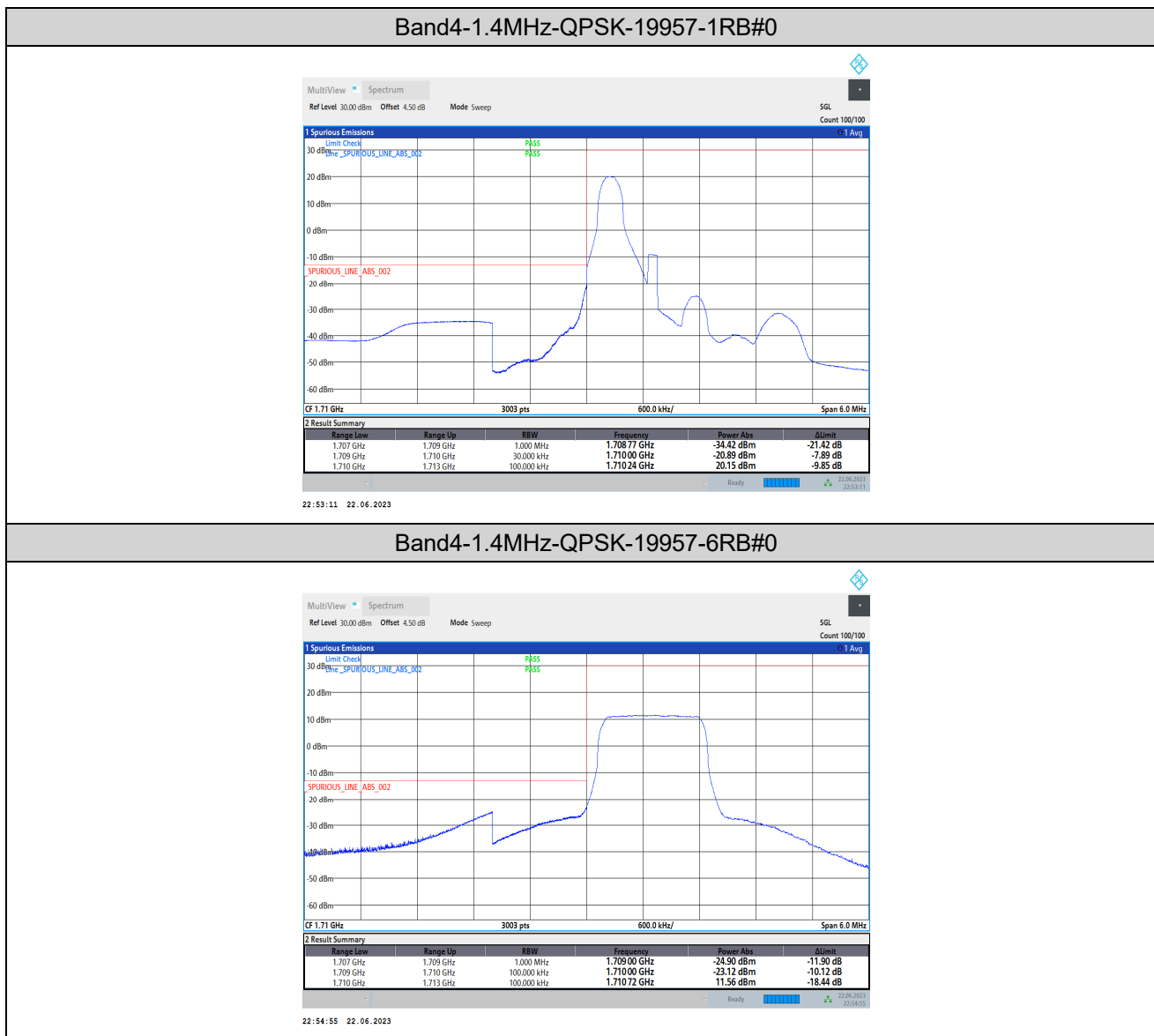


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Band Edge

Test Graphs

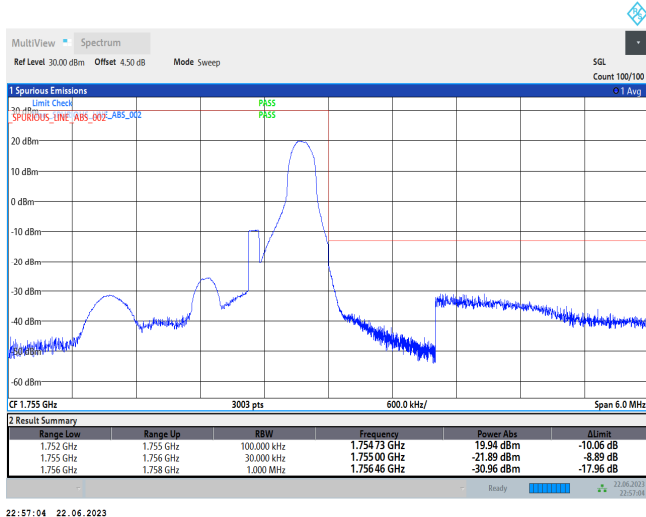


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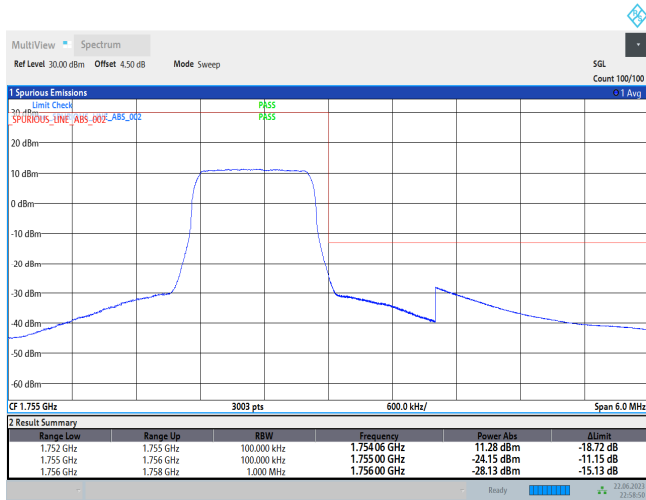
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Band4-1.4MHz-QPSK-20393-1RB#5



22:57:04 22.06.2023

Band4-1.4MHz-QPSK-20393-6RB#0



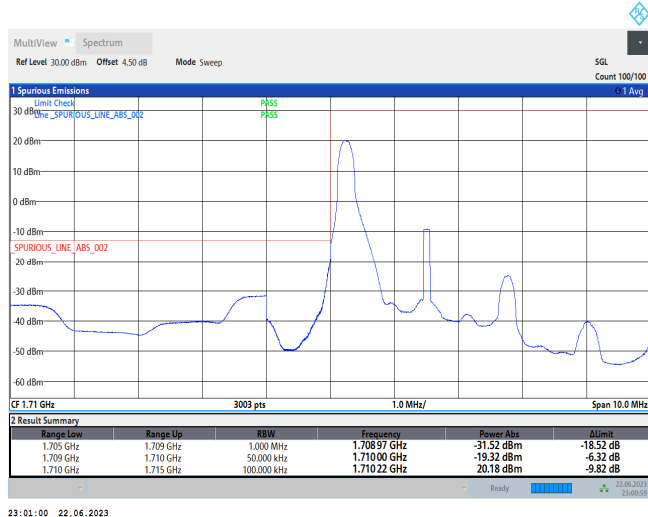
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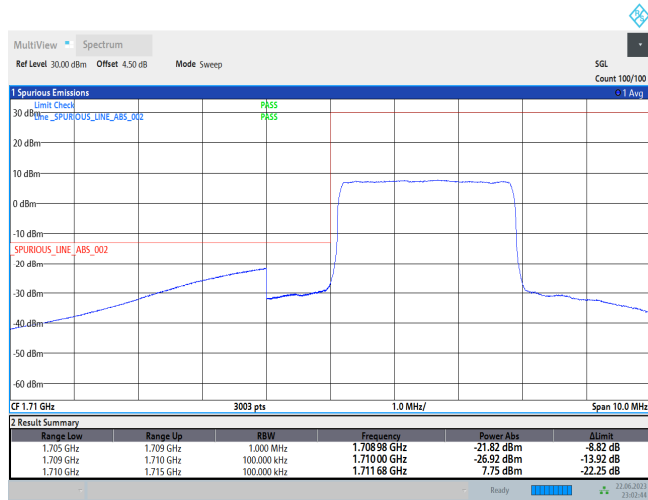
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Band4-3MHz-QPSK-19965-1RB#0



23:01:00 22.06.2023

Band4-3MHz-QPSK-19965-15RB#0



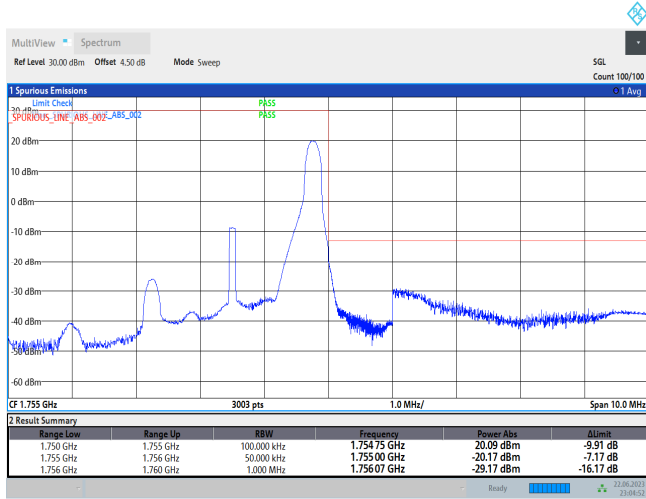
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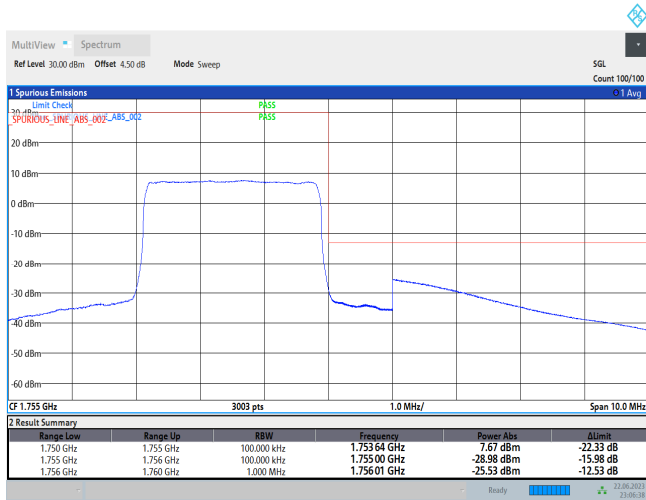
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Band4-3MHz-QPSK-20385-1RB#14



23:04:53 22.06.2023

Band4-3MHz-QPSK-20385-15RB#0



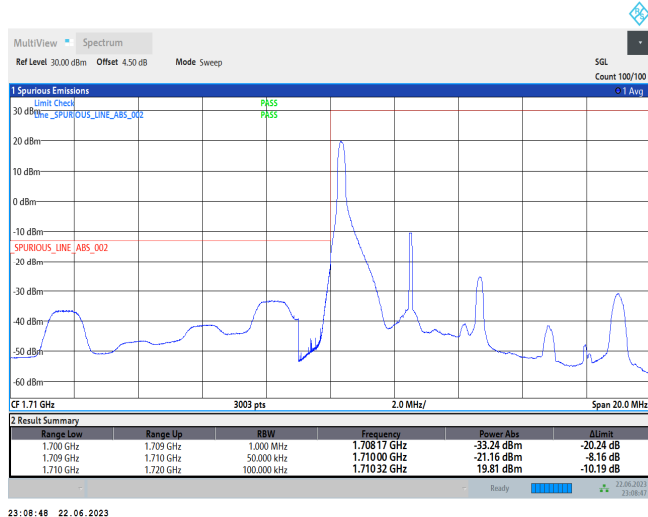
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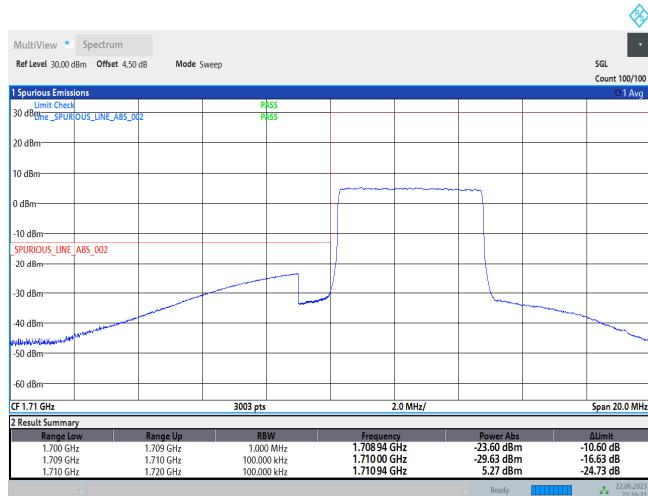
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Band4-5MHz-QPSK-19975-1RB#0



23:08:48 22.06.2023

Band4-5MHz-QPSK-19975-25RB#0



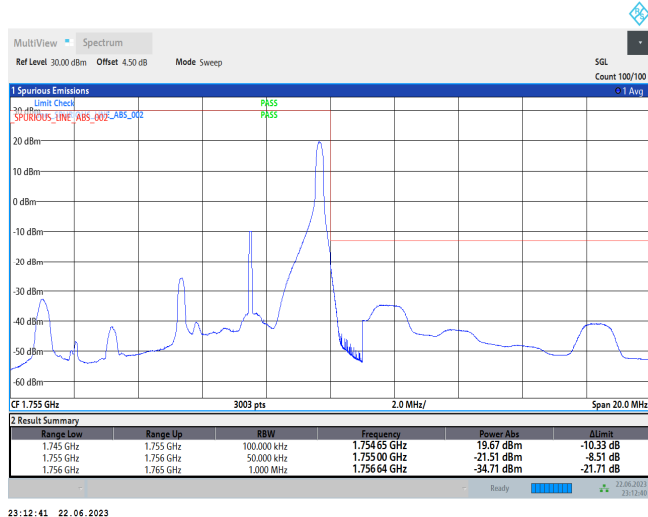
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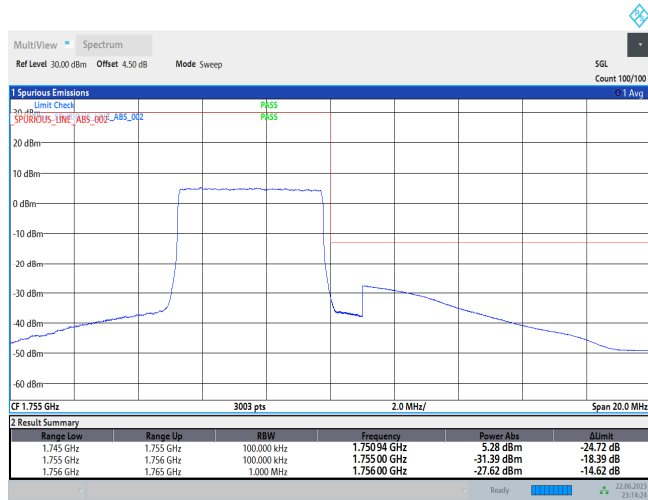
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Band4-5MHz-QPSK-20375-1RB#24



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Band4-5MHz-QPSK-20375-25RB#0



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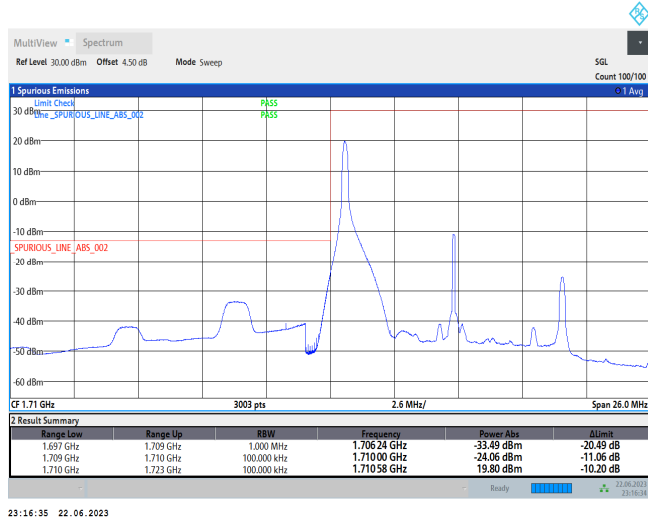


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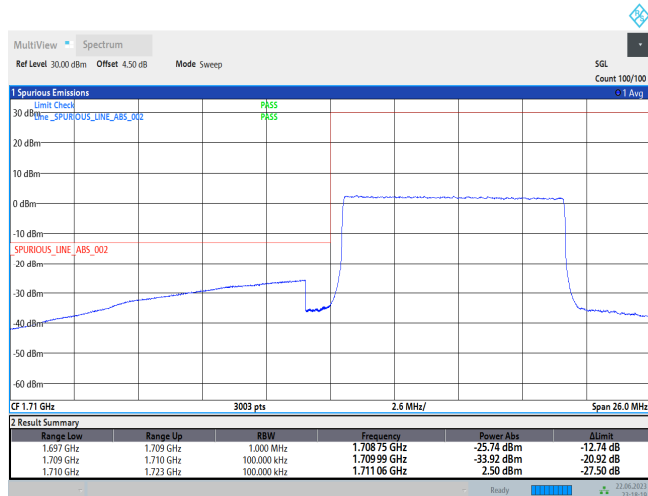
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Band4-10MHz-QPSK-20000-1RB#0



23:16:35 22.06.2023

Band4-10MHz-QPSK-20000-50RB#0



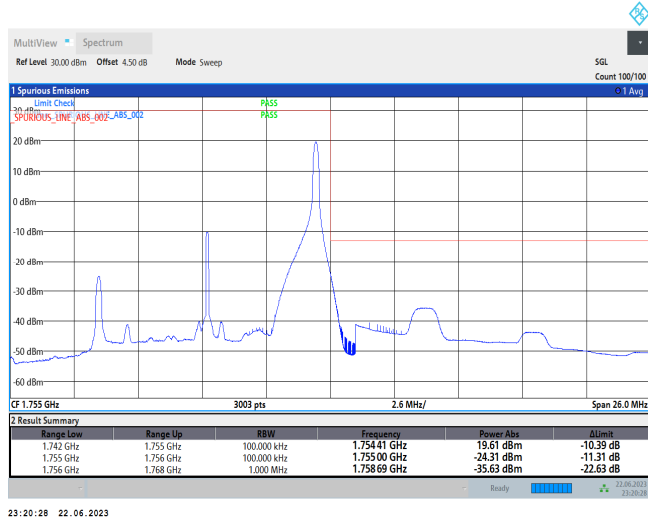
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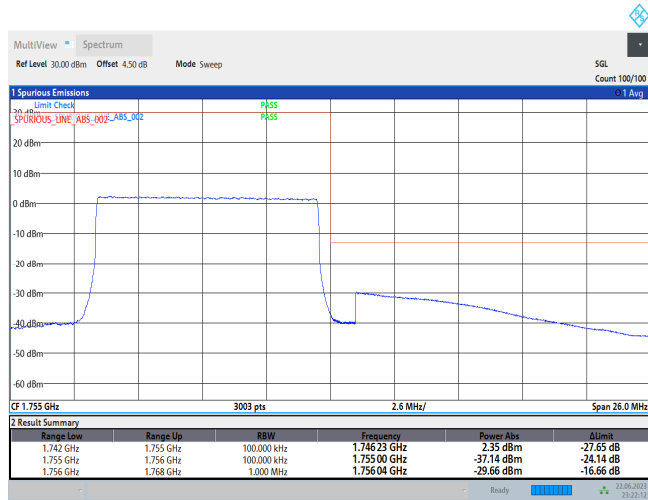
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Band4-10MHz-QPSK-20350-1RB#49



23:20:28 22.06.2023

Band4-10MHz-QPSK-20350-50RB#0



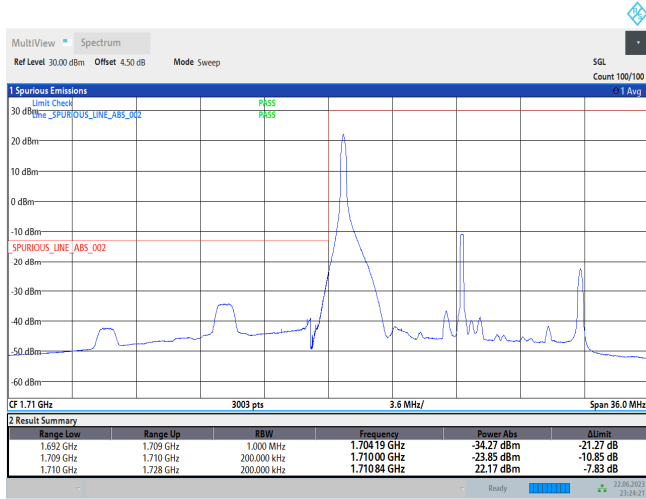
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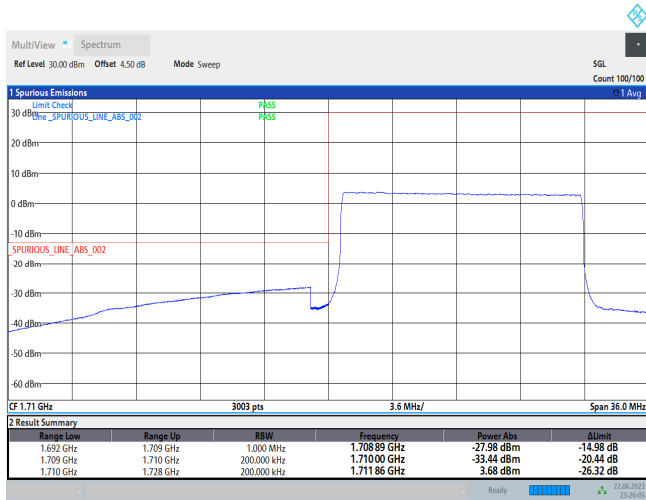
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Band4-15MHz-QPSK-20025-1RB#0



23:24:21 22.06.2023

Band4-15MHz-QPSK-20025-75RB#0



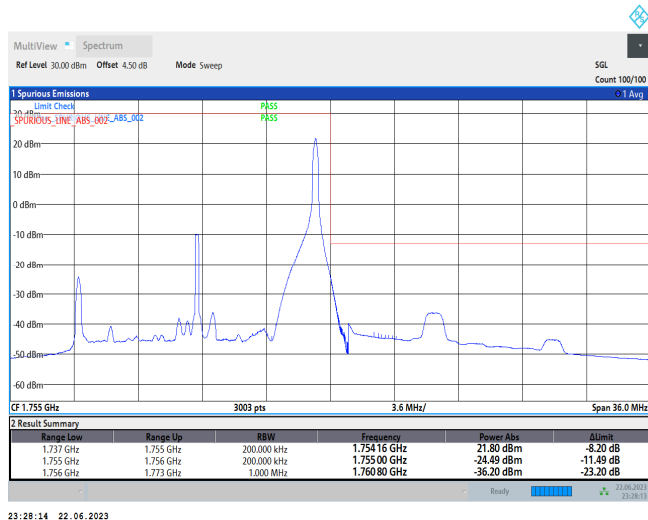
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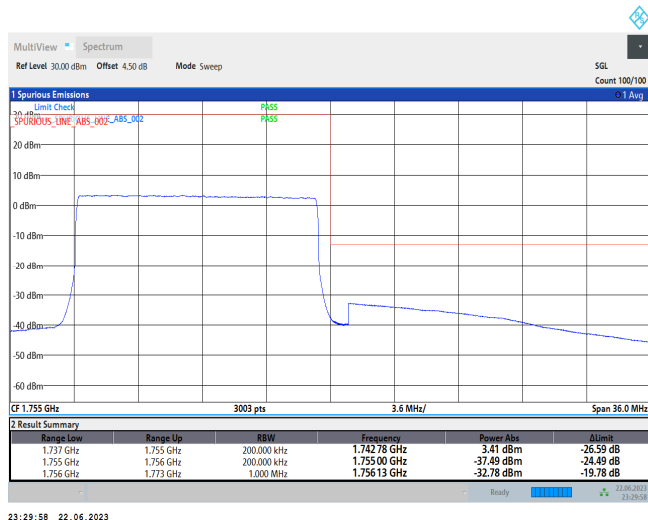
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Band4-15MHz-QPSK-20325-1RB#74



Band4-15MHz-QPSK-20325-75RB#0

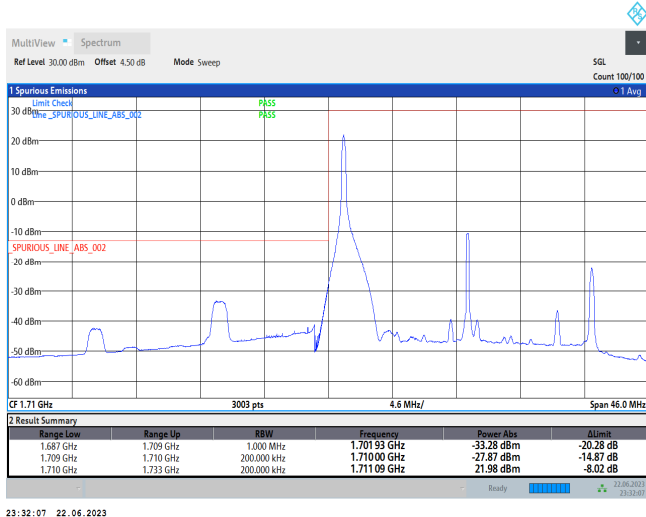


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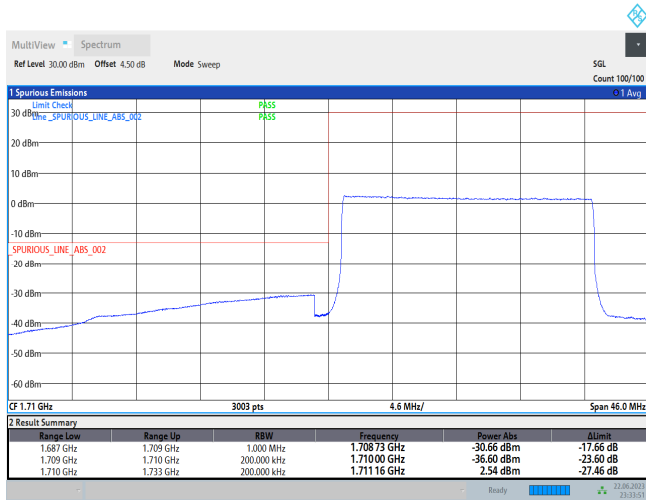
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Band4-20MHz-QPSK-20050-1RB#0



23:32:07 22.06.2023

Band4-20MHz-QPSK-20050-100RB#0



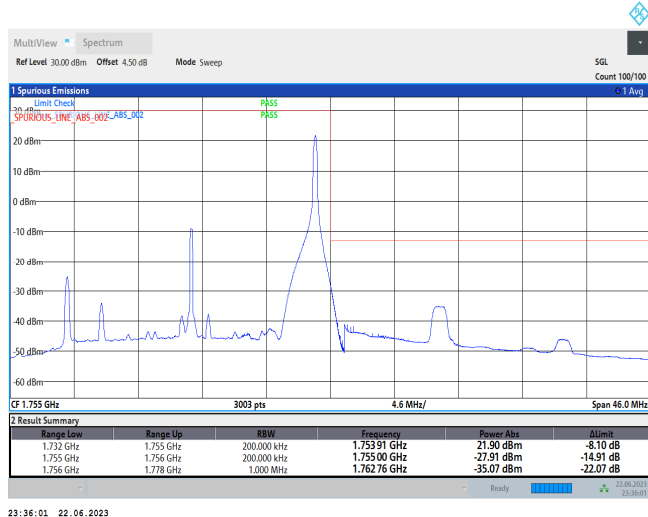
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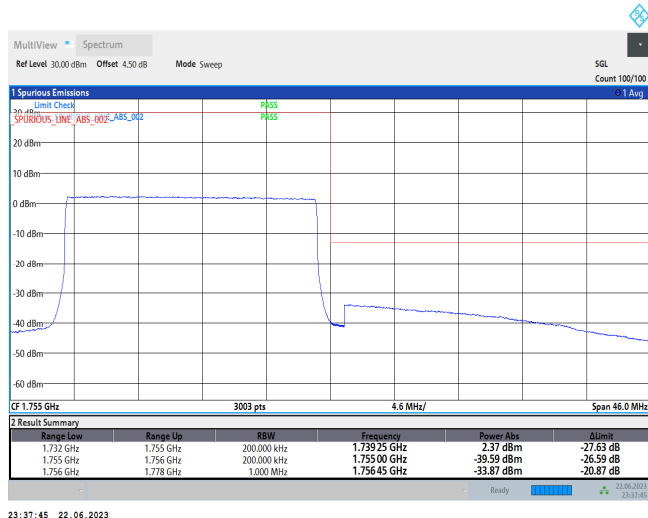
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Band4-20MHz-QPSK-20300-1RB#99



Band4-20MHz-QPSK-20300-100RB#0



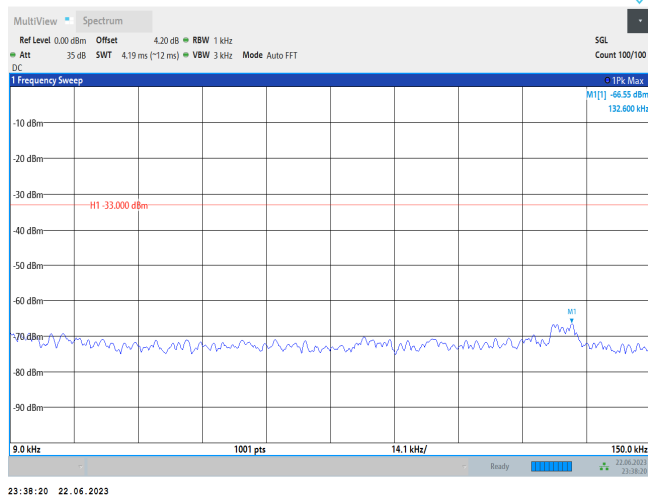
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Conducted Spurious Emission

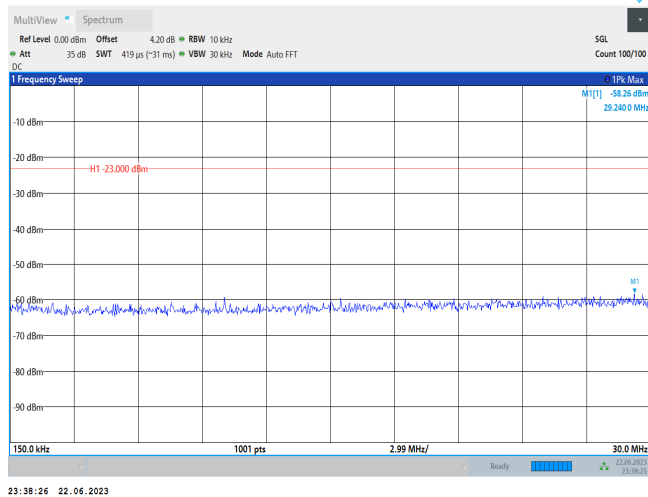
Test Graphs

Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



23:38:20 22.06.2023

Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz



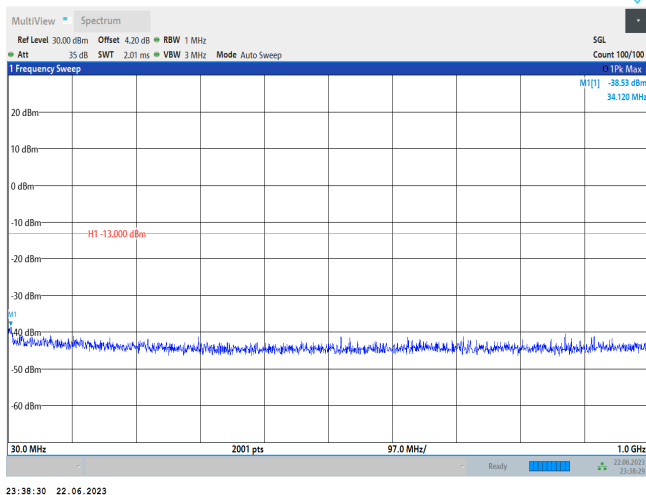
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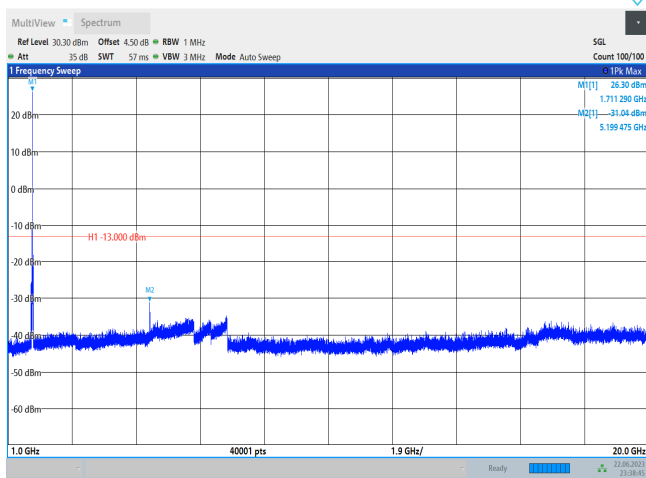
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



23:38:30 22.06.2023

Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz



23:38:45 22.06.2023

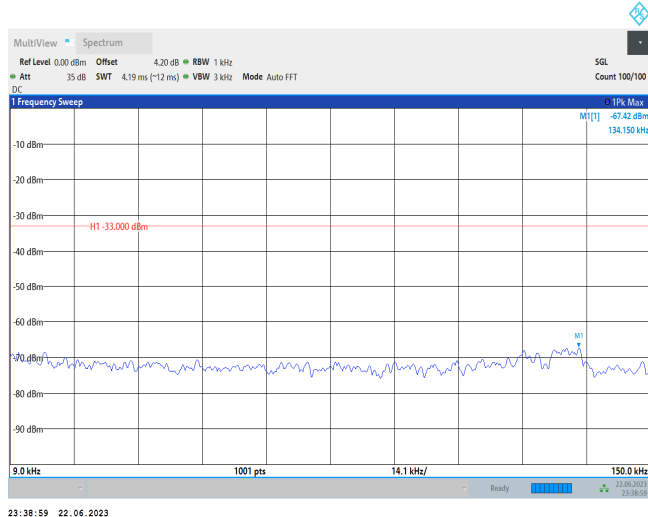


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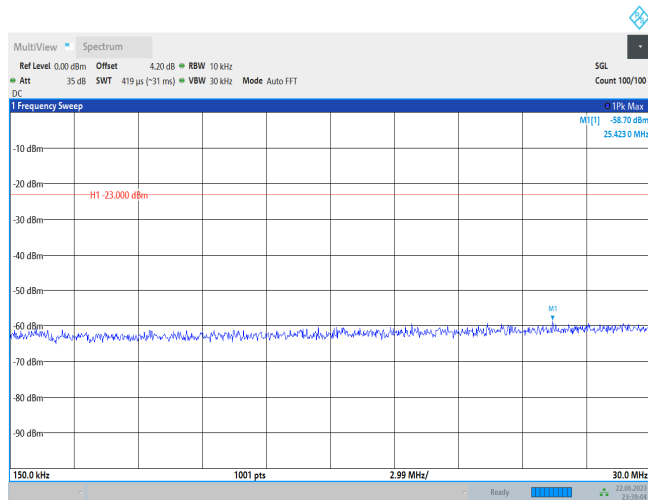
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



23:38:59 22.06.2023

Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



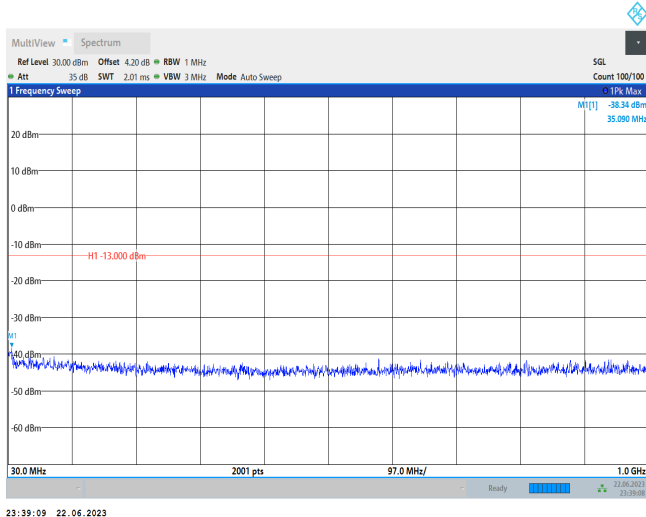
23:39:05 22.06.2023



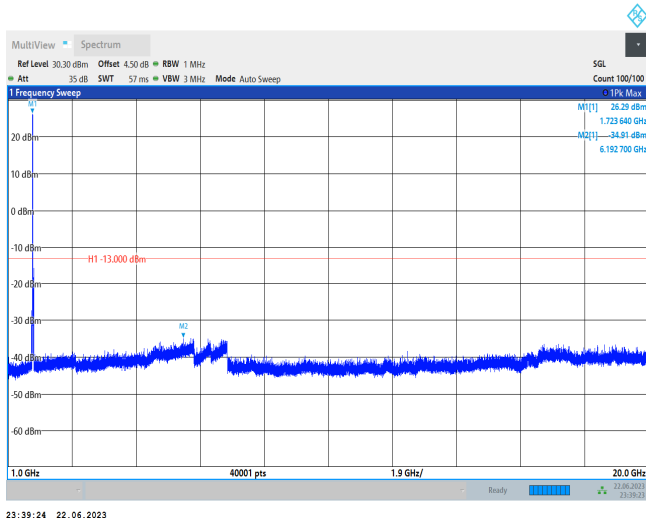
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



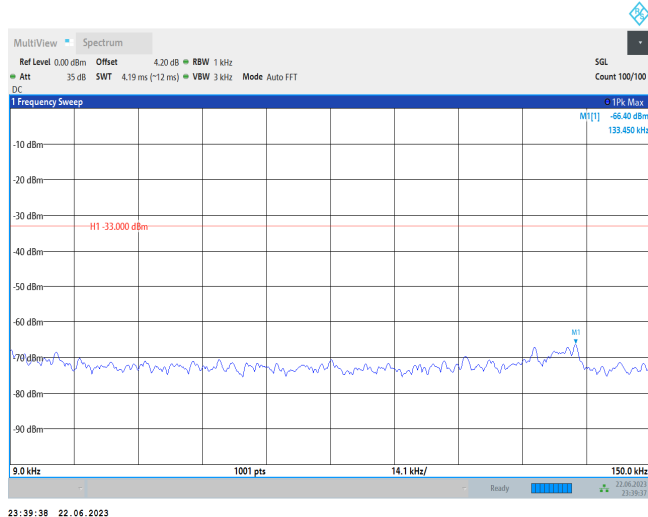
Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz



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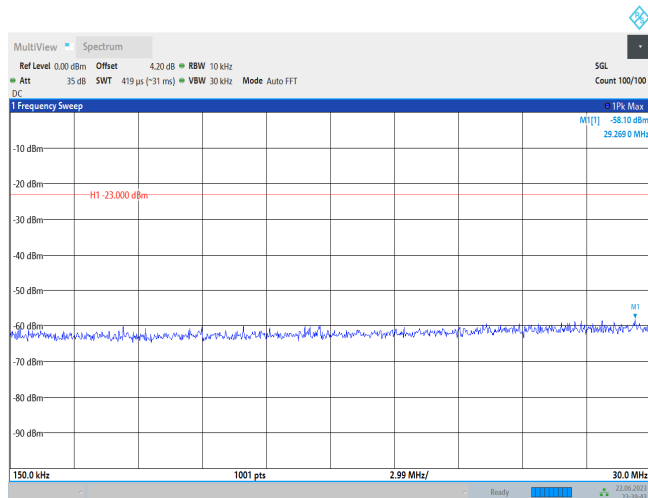
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



23:39:38 22.06.2023

Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



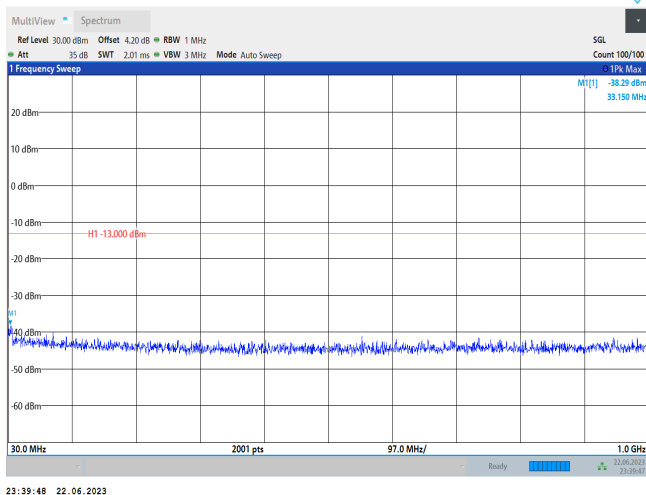
23:39:44 22.06.2023



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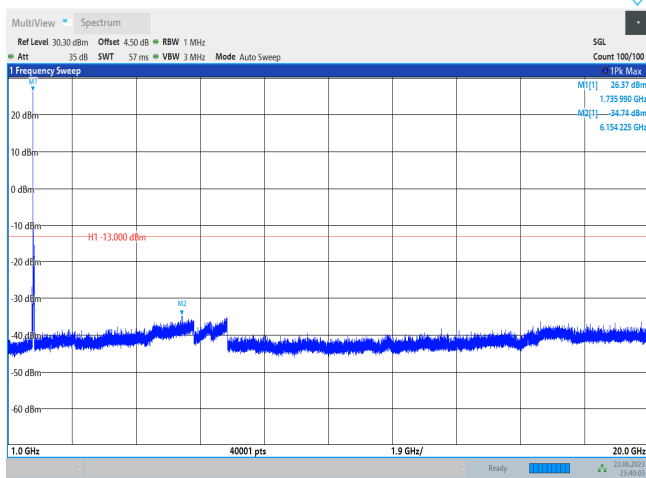
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



23:39:48 22.06.2023

Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



23:40:03 22.06.2023



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Field Strength of Spurious Radiation

Test Band = LTE band 4_ TM1_20MHz
 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 | 3422.1800 | 66.19 | -46.28 | 28.55 | -46.79 | -13.00 | 33.79 | 211 | 118 | Horizontal |
| 2 | 5133.2700 | 38.60 | -45.34 | 31.72 | -70.28 | -13.00 | 57.28 | 122 | 43 | Horizontal |
| 3 | 6844.3600 | 39.45 | -44.14 | 34.92 | -65.03 | -13.00 | 52.03 | 231 | 164 | Horizontal |
| 4 | 8555.4500 | 36.08 | -41.46 | 36.52 | -64.12 | -13.00 | 51.12 | 126 | 13 | Horizontal |
| 5 | 10266.5400 | 30.84 | -39.23 | 38.33 | -65.31 | -13.00 | 52.31 | 189 | 360 | Horizontal |
| 6 | 11977.6300 | 26.78 | -37.51 | 38.80 | -67.20 | -13.00 | 54.20 | 196 | 270 | 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 | 3422.1800 | 63.80 | -46.28 | 28.55 | -49.18 | -13.00 | 36.18 | 244 | 90 | Vertical |
| 2 | 5133.2700 | 39.32 | -45.34 | 31.72 | -69.56 | -13.00 | 56.56 | 145 | 330 | Vertical |
| 3 | 6844.3600 | 39.28 | -44.14 | 34.92 | -65.20 | -13.00 | 52.20 | 156 | 330 | Vertical |
| 4 | 8555.4500 | 36.13 | -41.46 | 36.52 | -64.07 | -13.00 | 51.07 | 123 | 356 | Vertical |
| 5 | 10266.5400 | 30.27 | -39.23 | 38.33 | -65.88 | -13.00 | 52.88 | 265 | 8 | Vertical |
| 6 | 11977.6300 | 26.01 | -37.51 | 38.80 | -67.97 | -13.00 | 54.97 | 187 | 120 | Vertical |



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Test Band = LTE band 4_ TM1_20MHz
 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 | 3447.1800 | 61.29 | -46.27 | 28.57 | -51.67 | -13.00 | 38.67 | 111 | 133 | Horizontal |
| 2 | 5170.7700 | 40.01 | -45.31 | 31.81 | -68.74 | -13.00 | 55.74 | 148 | 13 | Horizontal |
| 3 | 6894.3600 | 38.71 | -44.10 | 35.01 | -65.64 | -13.00 | 52.64 | 189 | 57 | Horizontal |
| 4 | 8617.9500 | 35.95 | -41.40 | 36.49 | -64.21 | -13.00 | 51.21 | 159 | 283 | Horizontal |
| 5 | 10341.5400 | 30.72 | -39.06 | 38.37 | -65.23 | -13.00 | 52.23 | 178 | 222 | Horizontal |
| 6 | 12065.1300 | 27.43 | -37.44 | 38.82 | -66.45 | -13.00 | 53.45 | 117 | 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 | 3447 | 65.40 | -46.27 | 28.57 | -47.56 | -13.00 | 34.56 | 118 | 74 | Vertical |
| 2 | 5170.7700 | 40.65 | -45.31 | 31.81 | -68.10 | -13.00 | 55.10 | 166 | 0 | Vertical |
| 3 | 6894.3600 | 38.63 | -44.10 | 35.01 | -65.72 | -13.00 | 52.72 | 259 | 240 | Vertical |
| 4 | 8617.9500 | 35.57 | -41.40 | 36.49 | -64.59 | -13.00 | 51.59 | 158 | 60 | Vertical |
| 5 | 10341.5400 | 30.84 | -39.06 | 38.37 | -65.11 | -13.00 | 52.11 | 175 | 0 | Vertical |
| 6 | 12065.1300 | 26.90 | -37.44 | 38.82 | -66.98 | -13.00 | 53.98 | 123 | 120 | Vertical |



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 t (86-512) 62992980 sgs.china@sgs.com

Test Band = LTE band 4_ TM1_20MHz
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 | 3472.1800 | 68.89 | -46.27 | 28.58 | -44.05 | -13.00 | 31.05 | 222 | 130 | Horizontal |
| 2 | 5208.2700 | 39.69 | -45.26 | 31.90 | -68.93 | -13.00 | 55.93 | 155 | 191 | Horizontal |
| 3 | 6944.3600 | 38.59 | -43.85 | 35.10 | -65.42 | -13.00 | 52.42 | 175 | 160 | Horizontal |
| 4 | 8680.4500 | 35.88 | -41.62 | 36.46 | -64.54 | -13.00 | 51.54 | 186 | 267 | Horizontal |
| 5 | 10416.5400 | 29.92 | -38.97 | 38.41 | -65.91 | -13.00 | 52.91 | 136 | 71 | Horizontal |
| 6 | 12152.6300 | 28.07 | -37.42 | 38.85 | -65.76 | -13.00 | 52.76 | 216 | 191 | 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 | 3472.1800 | 64.71 | -46.27 | 28.58 | -48.23 | -13.00 | 35.23 | 144 | 90 | Vertical |
| 2 | 5208.2700 | 42.38 | -45.26 | 31.90 | -66.24 | -13.00 | 53.24 | 188 | 165 | Vertical |
| 3 | 6944.3600 | 38.43 | -43.85 | 35.10 | -65.58 | -13.00 | 52.58 | 172 | 90 | Vertical |
| 4 | 8680.4500 | 35.33 | -41.62 | 36.46 | -65.09 | -13.00 | 52.09 | 143 | 225 | Vertical |
| 5 | 10416.5400 | 30.74 | -38.97 | 38.41 | -65.09 | -13.00 | 52.09 | 216 | 299 | Vertical |
| 6 | 12152.6300 | 27.85 | -37.42 | 38.85 | -65.98 | -13.00 | 52.98 | 199 | 7 | 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 |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | VL | NT | 3.40 | 0.001962 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | VN | NT | -12.70 | -0.007330 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | VH | NT | -17.90 | -0.010332 | PASS |

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | -30 | -4.70 | -0.002713 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | -20 | 2.40 | 0.001385 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | -10 | -1.70 | -0.000981 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 0 | -13.30 | -0.007677 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 10 | -11.70 | -0.006753 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 20 | 3.10 | 0.001789 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 30 | 4.90 | 0.002828 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 40 | -14.30 | -0.008254 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 50 | -10.80 | -0.006234 | PASS |

---End of Attachment---



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