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# Appendix B.5

## LTE Band 5



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## Effective (Isotropic) Radiated Power Output Data

## Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|----------|------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#0            | 23.13       | 20.56    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#2            | 23.25       | 20.68    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 1RB#5            | 23.11       | 20.54    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 22.26       | 19.69    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#0            | 23.05       | 20.48    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#2            | 23.35       | 20.78    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 1RB#5            | 23.11       | 20.54    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 22.27       | 19.7     | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#0            | 23.03       | 20.46    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#2            | 23.12       | 20.55    | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 1RB#5            | 23.07       | 20.5     | 38.45      | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | 22.16       | 19.59    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#0            | 22.46       | 19.89    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#2            | 22.52       | 19.95    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 1RB#5            | 22.4        | 19.83    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 21.34       | 18.77    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#0            | 22.37       | 19.8     | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#2            | 22.45       | 19.88    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 1RB#5            | 22.48       | 19.91    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 21.29       | 18.72    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#0            | 22.45       | 19.88    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#2            | 22.53       | 19.96    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 1RB#5            | 22.45       | 19.88    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | 21.29       | 18.72    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 64QAM      | 20407   | 1RB#0            | 21.63       | 19.06    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 64QAM      | 20407   | 1RB#2            | 21.56       | 18.99    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 64QAM      | 20407   | 1RB#5            | 21.38       | 18.81    | 38.45      | PASS    |
| Band5 | 1.4MHz    | 64QAM      | 20407   | 6RB#0            | 20.29       | 17.72    | 38.45      | PASS    |



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|-------|--------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 1.4MHz | 64QAM | 20525 | 1RB#0  | 21.36 | 18.79 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20525 | 1RB#2  | 21.46 | 18.89 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20525 | 1RB#5  | 21.29 | 18.72 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20525 | 6RB#0  | 20.25 | 17.68 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20643 | 1RB#0  | 21.37 | 18.8  | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20643 | 1RB#2  | 21.31 | 18.74 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20643 | 1RB#5  | 21.25 | 18.68 | 38.45 | PASS |
| Band5 | 1.4MHz | 64QAM | 20643 | 6RB#0  | 20.19 | 17.62 | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#0  | 23.28 | 20.71 | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#8  | 23.29 | 20.72 | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 1RB#14 | 23.19 | 20.62 | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20415 | 15RB#0 | 22.3  | 19.73 | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#0  | 23.23 | 20.66 | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#8  | 23.25 | 20.68 | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 1RB#14 | 23.15 | 20.58 | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20525 | 15RB#0 | 22.29 | 19.72 | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#0  | 23.18 | 20.61 | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#8  | 23.18 | 20.61 | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 1RB#14 | 23.05 | 20.48 | 38.45 | PASS |
| Band5 | 3MHz   | QPSK  | 20635 | 15RB#0 | 22.25 | 19.68 | 38.45 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#0  | 22.63 | 20.06 | 38.45 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#8  | 22.69 | 20.12 | 38.45 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 1RB#14 | 22.46 | 19.89 | 38.45 | PASS |
| Band5 | 3MHz   | 16QAM | 20415 | 15RB#0 | 21.4  | 18.83 | 38.45 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 1RB#0  | 22.59 | 20.02 | 38.45 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 1RB#8  | 22.65 | 20.08 | 38.45 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 1RB#14 | 22.42 | 19.85 | 38.45 | PASS |
| Band5 | 3MHz   | 16QAM | 20525 | 15RB#0 | 21.3  | 18.73 | 38.45 | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 1RB#0  | 22.47 | 19.9  | 38.45 | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 1RB#8  | 22.55 | 19.98 | 38.45 | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 1RB#14 | 22.37 | 19.8  | 38.45 | PASS |
| Band5 | 3MHz   | 16QAM | 20635 | 15RB#0 | 21.31 | 18.74 | 38.45 | PASS |
| Band5 | 3MHz   | 64QAM | 20415 | 1RB#0  | 21.53 | 18.96 | 38.45 | PASS |



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|-------|------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 3MHz | 64QAM | 20415 | 1RB#8  | 21.62 | 19.05 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20415 | 1RB#14 | 21.41 | 18.84 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20415 | 15RB#0 | 20.32 | 17.75 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20525 | 1RB#0  | 21.52 | 18.95 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20525 | 1RB#8  | 21.56 | 18.99 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20525 | 1RB#14 | 21.51 | 18.94 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20525 | 15RB#0 | 20.31 | 17.74 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20635 | 1RB#0  | 21.4  | 18.83 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20635 | 1RB#8  | 21.58 | 19.01 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20635 | 1RB#14 | 21.44 | 18.87 | 38.45 | PASS |
| Band5 | 3MHz | 64QAM | 20635 | 15RB#0 | 20.32 | 17.75 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#0  | 23.33 | 20.76 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#12 | 23.22 | 20.65 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 1RB#24 | 23.19 | 20.62 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20425 | 25RB#0 | 22.39 | 19.82 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#0  | 23.3  | 20.73 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#12 | 23.25 | 20.68 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 1RB#24 | 23.21 | 20.64 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20525 | 25RB#0 | 22.24 | 19.67 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#0  | 23.21 | 20.64 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#12 | 23.17 | 20.6  | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 1RB#24 | 23.16 | 20.59 | 38.45 | PASS |
| Band5 | 5MHz | QPSK  | 20625 | 25RB#0 | 22.22 | 19.65 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0  | 22.75 | 20.18 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#12 | 22.6  | 20.03 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#24 | 22.48 | 19.91 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 21.38 | 18.81 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0  | 22.67 | 20.1  | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#12 | 22.57 | 20    | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#24 | 22.57 | 20    | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 21.26 | 18.69 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0  | 22.53 | 19.96 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#12 | 22.55 | 19.98 | 38.45 | PASS |



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| Band5 | 5MHz  | 16QAM | 20625 | 1RB#24 | 22.38 | 19.81 | 38.45 | PASS |
| Band5 | 5MHz  | 16QAM | 20625 | 25RB#0 | 21.21 | 18.64 | 38.45 | PASS |
| Band5 | 5MHz  | 64QAM | 20425 | 1RB#0  | 21.63 | 19.06 | 38.45 | PASS |
| Band5 | 5MHz  | 64QAM | 20425 | 1RB#12 | 21.49 | 18.92 | 38.45 | PASS |
| Band5 | 5MHz  | 64QAM | 20425 | 1RB#24 | 21.5  | 18.93 | 38.45 | PASS |
| Band5 | 5MHz  | 64QAM | 20425 | 25RB#0 | 20.43 | 17.86 | 38.45 | PASS |
| Band5 | 5MHz  | 64QAM | 20525 | 1RB#0  | 21.53 | 18.96 | 38.45 | PASS |
| Band5 | 5MHz  | 64QAM | 20525 | 1RB#12 | 21.37 | 18.8  | 38.45 | PASS |
| Band5 | 5MHz  | 64QAM | 20525 | 1RB#24 | 21.41 | 18.84 | 38.45 | PASS |
| Band5 | 5MHz  | 64QAM | 20525 | 25RB#0 | 20.29 | 17.72 | 38.45 | PASS |
| Band5 | 5MHz  | 64QAM | 20625 | 1RB#0  | 21.38 | 18.81 | 38.45 | PASS |
| Band5 | 5MHz  | 64QAM | 20625 | 1RB#12 | 21.44 | 18.87 | 38.45 | PASS |
| Band5 | 5MHz  | 64QAM | 20625 | 1RB#24 | 21.43 | 18.86 | 38.45 | PASS |
| Band5 | 5MHz  | 64QAM | 20625 | 25RB#0 | 20.22 | 17.65 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#0  | 23.39 | 20.82 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#24 | 23.15 | 20.58 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 1RB#49 | 23.15 | 20.58 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20450 | 50RB#0 | 22.45 | 19.88 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#0  | 23.25 | 20.68 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#24 | 23.28 | 20.71 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 1RB#49 | 23.25 | 20.68 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20525 | 50RB#0 | 22.26 | 19.69 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#0  | 23.2  | 20.63 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#24 | 23.28 | 20.71 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 1RB#49 | 23.12 | 20.55 | 38.45 | PASS |
| Band5 | 10MHz | QPSK  | 20600 | 50RB#0 | 22.2  | 19.63 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0  | 22.56 | 19.99 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#24 | 22.72 | 20.15 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49 | 22.5  | 19.93 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 21.38 | 18.81 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0  | 22.66 | 20.09 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#24 | 22.57 | 20    | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#49 | 22.5  | 19.93 | 38.45 | PASS |



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| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 21.3  | 18.73 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0  | 22.64 | 20.07 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#24 | 22.47 | 19.9  | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49 | 22.48 | 19.91 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 21.31 | 18.74 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 1RB#0  | 21.48 | 18.91 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 1RB#24 | 21.42 | 18.85 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 1RB#49 | 21.43 | 18.86 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 50RB#0 | 20.45 | 17.88 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 1RB#0  | 21.44 | 18.87 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 1RB#24 | 21.46 | 18.89 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 1RB#49 | 21.34 | 18.77 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 50RB#0 | 20.29 | 17.72 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 1RB#0  | 21.44 | 18.87 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 1RB#24 | 21.38 | 18.81 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 1RB#49 | 21.3  | 18.73 | 38.45 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 50RB#0 | 20.28 | 17.71 | 38.45 | PASS |



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## Peak-to-Average Ratio(CCDF)

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0           | 5.36       | 13        | PASS    |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0           | 5.54       | 13        | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0           | 5.14       | 13        | PASS    |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0           | 6.06       | 13        | PASS    |
| Band5 | 10MHz     | 16QAM      | 20525   | 50RB#0           | 6.22       | 13        | PASS    |
| Band5 | 10MHz     | 16QAM      | 20600   | 50RB#0           | 5.94       | 13        | PASS    |
| Band5 | 10MHz     | 64QAM      | 20450   | 50RB#0           | 6.60       | 13        | PASS    |
| Band5 | 10MHz     | 64QAM      | 20525   | 50RB#0           | 6.62       | 13        | PASS    |
| Band5 | 10MHz     | 64QAM      | 20600   | 50RB#0           | 6.46       | 13        | PASS    |



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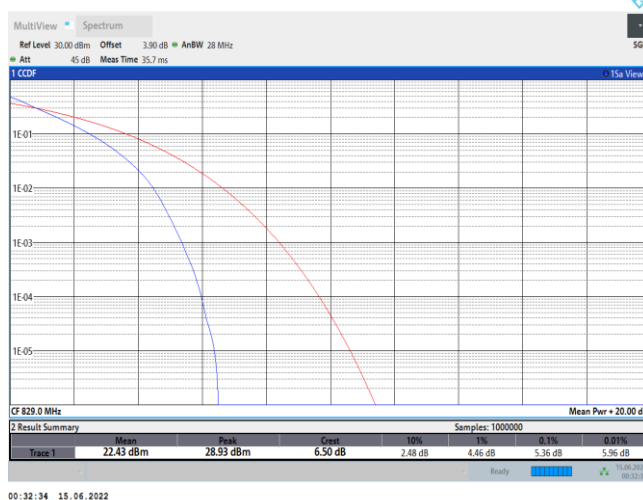
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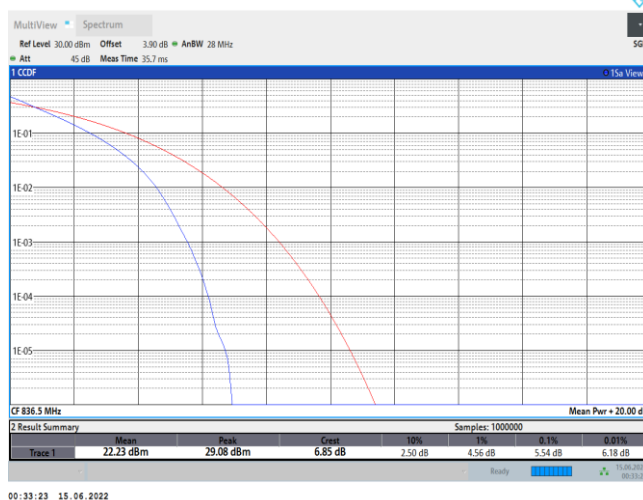
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### Test Graphs

Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20525-50RB#0



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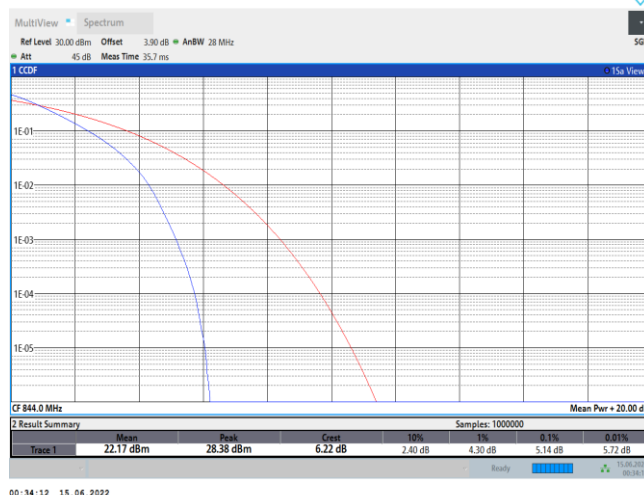
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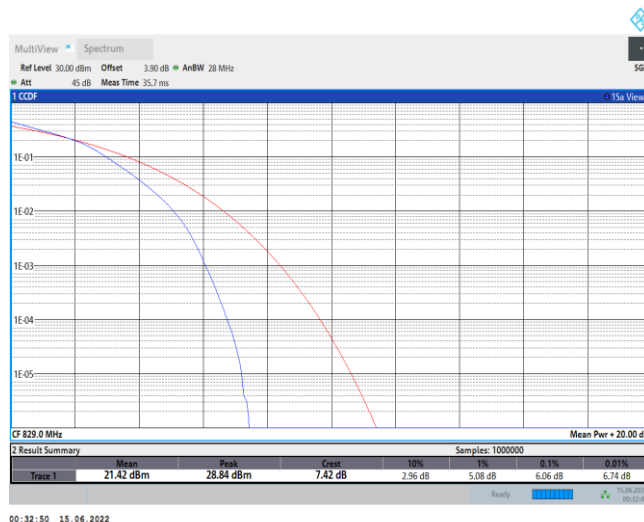
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### Band5-10MHz-QPSK-20600-50RB#0



### Band5-10MHz-16QAM-20450-50RB#0



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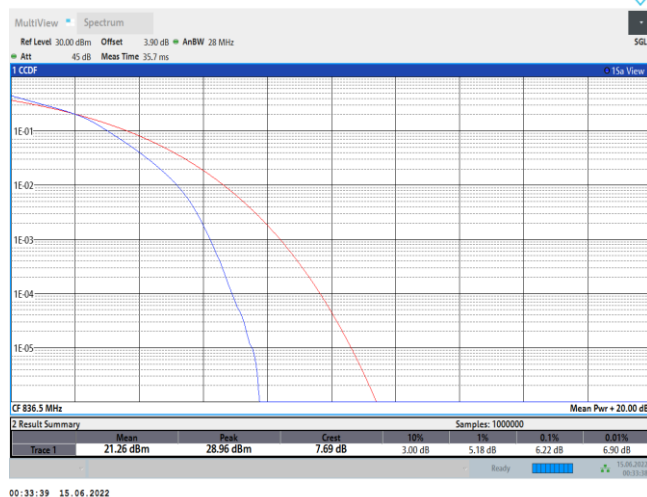
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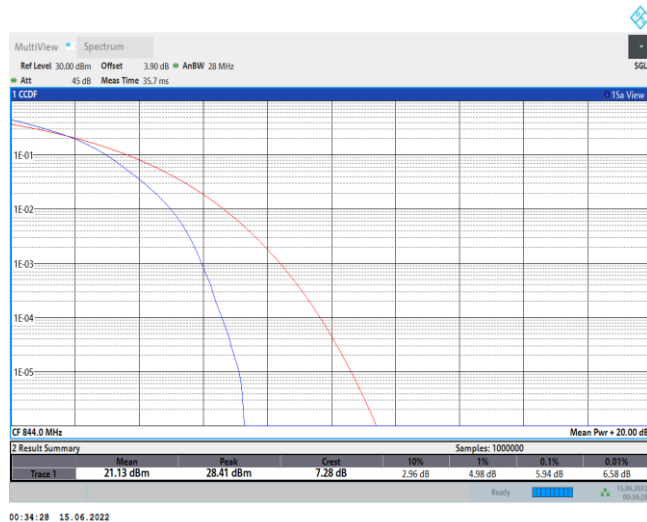
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### Band5-10MHz-16QAM-20525-50RB#0



### Band5-10MHz-16QAM-20600-50RB#0



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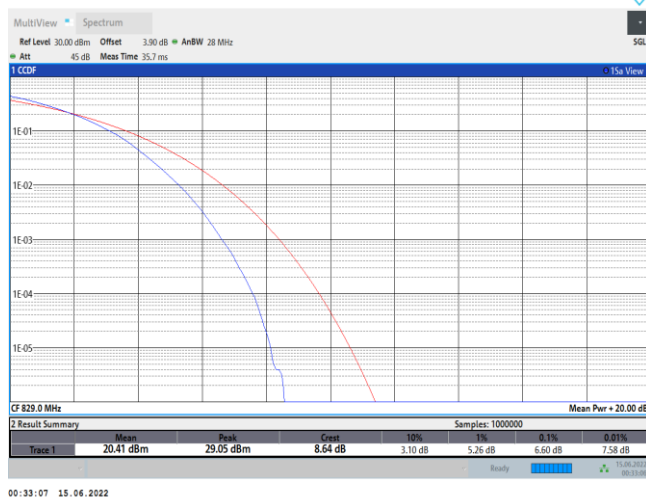
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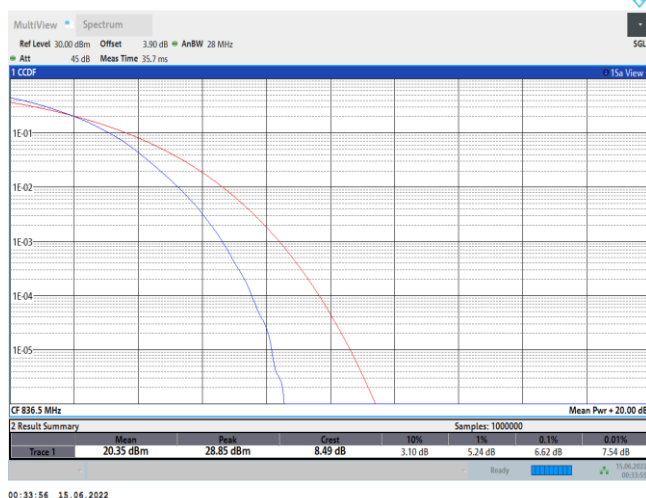
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### Band5-10MHz-64QAM-20450-50RB#0



### Band5-10MHz-64QAM-20525-50RB#0



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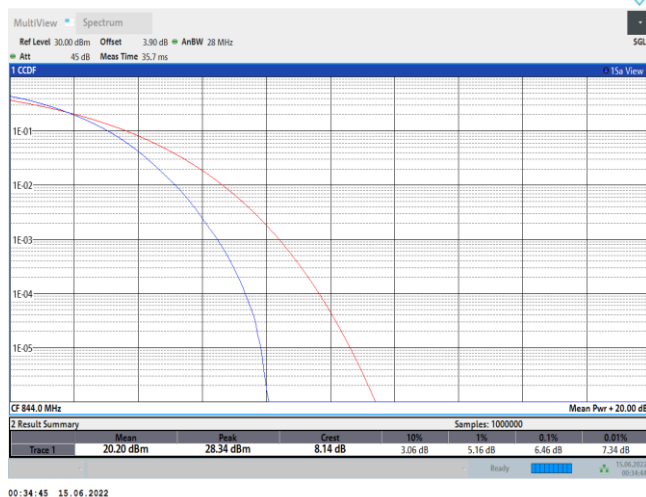
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## Modulation Characteristics

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|-------|-----------|------------|---------|------------------|--------|---------|
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0           | PASS   | PASS    |
| Band5 | 10MHz     | 16QAM      | 20525   | 50RB#0           | PASS   | PASS    |
| Band5 | 10MHz     | 64QAM      | 20525   | 50RB#0           | PASS   | PASS    |



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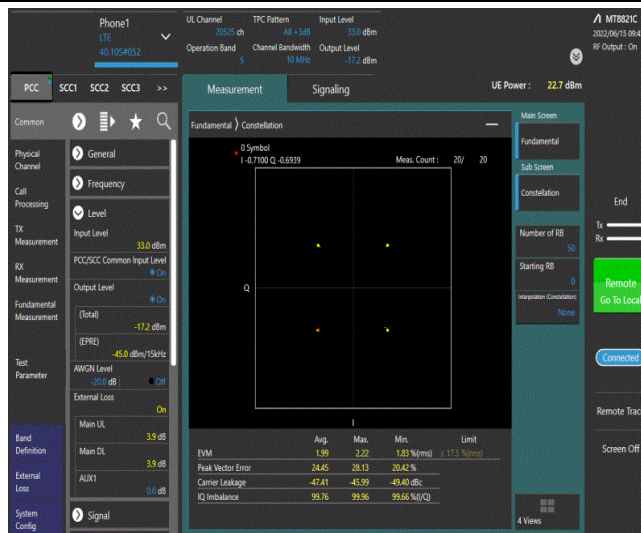
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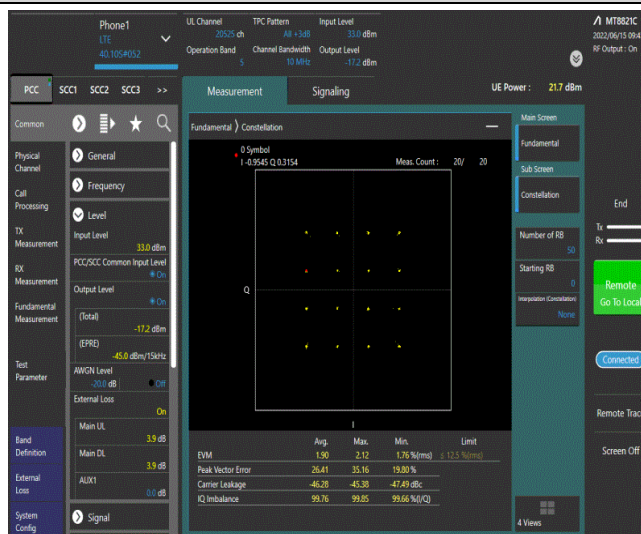
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## Test Graphs

Band5-10MHz-QPSK-20525-50RB#0



Band5-10MHz-16QAM-20525-50RB#0



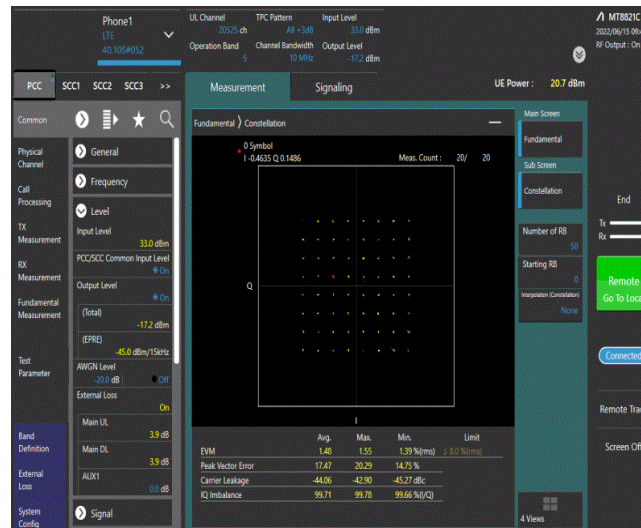
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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band5 | 1.4MHz    | QPSK       | 20407   | 6RB#0            | 1.084                    | 1.23                 | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20525   | 6RB#0            | 1.084                    | 1.23                 | PASS    |
| Band5 | 1.4MHz    | QPSK       | 20643   | 6RB#0            | 1.084                    | 1.23                 | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20407   | 6RB#0            | 1.091                    | 1.24                 | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20525   | 6RB#0            | 1.091                    | 1.24                 | PASS    |
| Band5 | 1.4MHz    | 16QAM      | 20643   | 6RB#0            | 1.092                    | 1.24                 | PASS    |
| Band5 | 1.4MHz    | 64QAM      | 20407   | 6RB#0            | 1.096                    | 1.24                 | PASS    |
| Band5 | 1.4MHz    | 64QAM      | 20525   | 6RB#0            | 1.090                    | 1.24                 | PASS    |
| Band5 | 1.4MHz    | 64QAM      | 20643   | 6RB#0            | 1.091                    | 1.24                 | PASS    |
| Band5 | 3MHz      | QPSK       | 20415   | 15RB#0           | 2.69                     | 2.97                 | PASS    |
| Band5 | 3MHz      | QPSK       | 20525   | 15RB#0           | 2.692                    | 2.98                 | PASS    |
| Band5 | 3MHz      | QPSK       | 20635   | 15RB#0           | 2.695                    | 2.99                 | PASS    |
| Band5 | 3MHz      | 16QAM      | 20415   | 15RB#0           | 2.683                    | 2.98                 | PASS    |
| Band5 | 3MHz      | 16QAM      | 20525   | 15RB#0           | 2.686                    | 2.97                 | PASS    |
| Band5 | 3MHz      | 16QAM      | 20635   | 15RB#0           | 2.690                    | 2.98                 | PASS    |
| Band5 | 3MHz      | 64QAM      | 20415   | 15RB#0           | 2.685                    | 2.98                 | PASS    |
| Band5 | 3MHz      | 64QAM      | 20525   | 15RB#0           | 2.688                    | 2.95                 | PASS    |
| Band5 | 3MHz      | 64QAM      | 20635   | 15RB#0           | 2.688                    | 2.97                 | PASS    |
| Band5 | 5MHz      | QPSK       | 20425   | 25RB#0           | 4.468                    | 4.88                 | PASS    |
| Band5 | 5MHz      | QPSK       | 20525   | 25RB#0           | 4.470                    | 4.88                 | PASS    |
| Band5 | 5MHz      | QPSK       | 20625   | 25RB#0           | 4.467                    | 4.89                 | PASS    |
| Band5 | 5MHz      | 16QAM      | 20425   | 25RB#0           | 4.465                    | 4.90                 | PASS    |
| Band5 | 5MHz      | 16QAM      | 20525   | 25RB#0           | 4.465                    | 4.90                 | PASS    |
| Band5 | 5MHz      | 16QAM      | 20625   | 25RB#0           | 4.466                    | 4.91                 | PASS    |
| Band5 | 5MHz      | 64QAM      | 20425   | 25RB#0           | 4.475                    | 4.91                 | PASS    |
| Band5 | 5MHz      | 64QAM      | 20525   | 25RB#0           | 4.479                    | 4.90                 | PASS    |
| Band5 | 5MHz      | 64QAM      | 20625   | 25RB#0           | 4.478                    | 4.89                 | PASS    |
| Band5 | 10MHz     | QPSK       | 20450   | 50RB#0           | 8.927                    | 9.60                 | PASS    |
| Band5 | 10MHz     | QPSK       | 20525   | 50RB#0           | 8.924                    | 9.68                 | PASS    |
| Band5 | 10MHz     | QPSK       | 20600   | 50RB#0           | 8.902                    | 9.58                 | PASS    |
| Band5 | 10MHz     | 16QAM      | 20450   | 50RB#0           | 8.905                    | 9.62                 | PASS    |



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|       |       |       |       |        |       |      |      |
|-------|-------|-------|-------|--------|-------|------|------|
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 8.905 | 9.62 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 8.885 | 9.58 | PASS |
| Band5 | 10MHz | 64QAM | 20450 | 50RB#0 | 8.919 | 9.64 | PASS |
| Band5 | 10MHz | 64QAM | 20525 | 50RB#0 | 8.919 | 9.62 | PASS |
| Band5 | 10MHz | 64QAM | 20600 | 50RB#0 | 8.907 | 9.58 | PASS |



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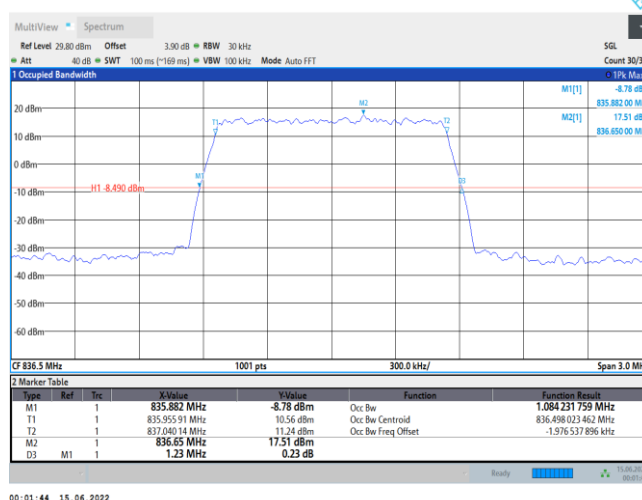
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### Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0



Band5-1.4MHz-QPSK-20525-6RB#0



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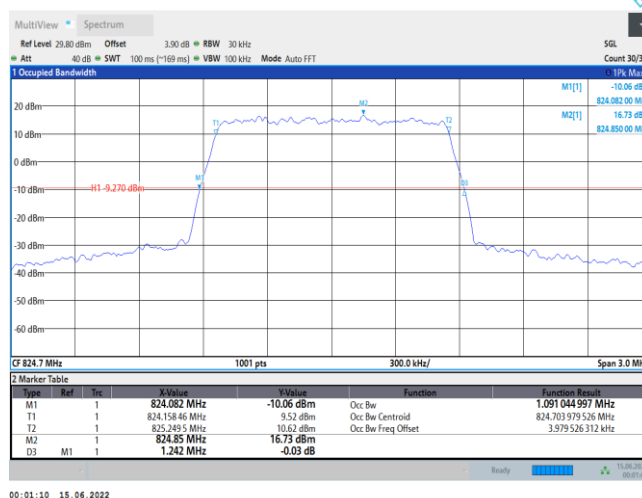
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### Band5-1.4MHz-QPSK-20643-6RB#0



### Band5-1.4MHz-16QAM-20407-6RB#0



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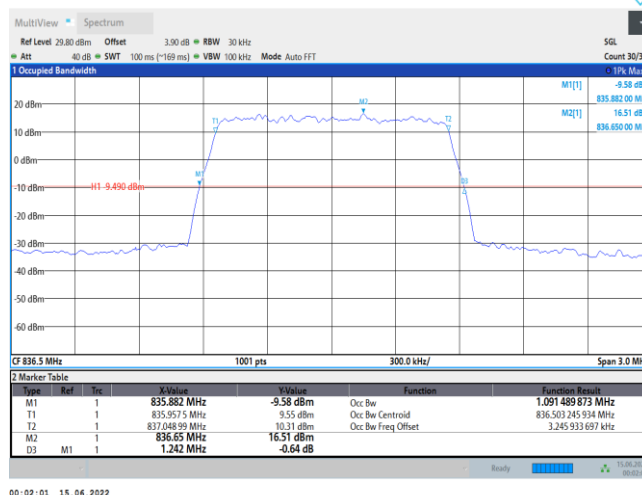
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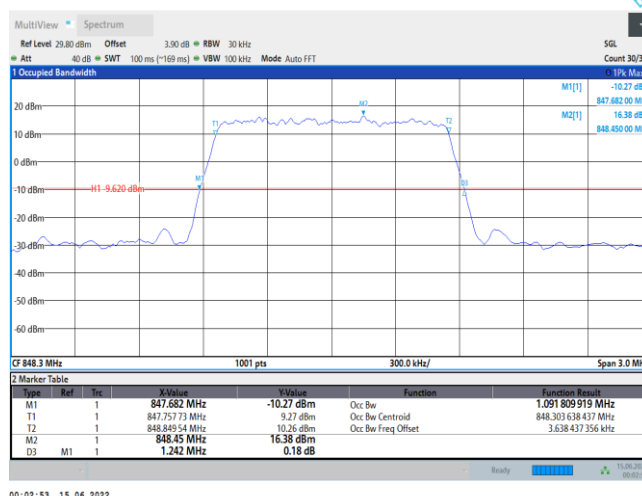
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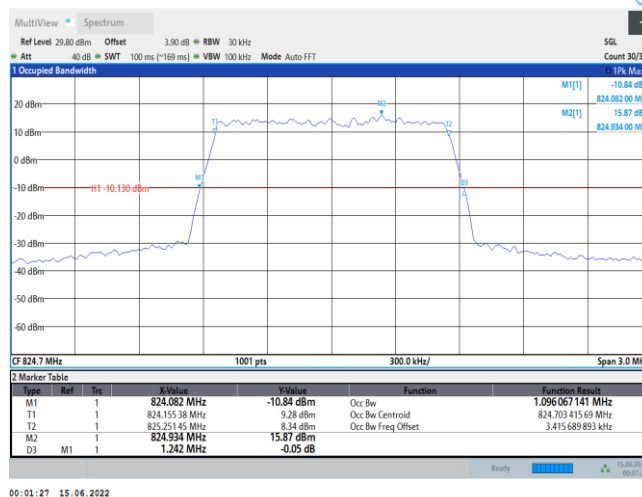
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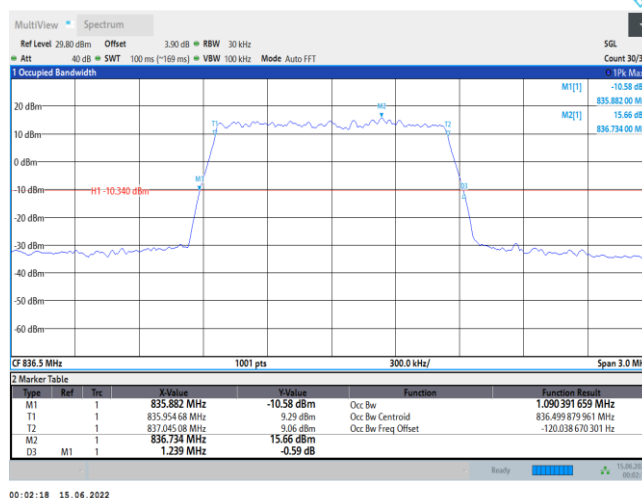
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### Band5-1.4MHz-64QAM-20407-6RB#0



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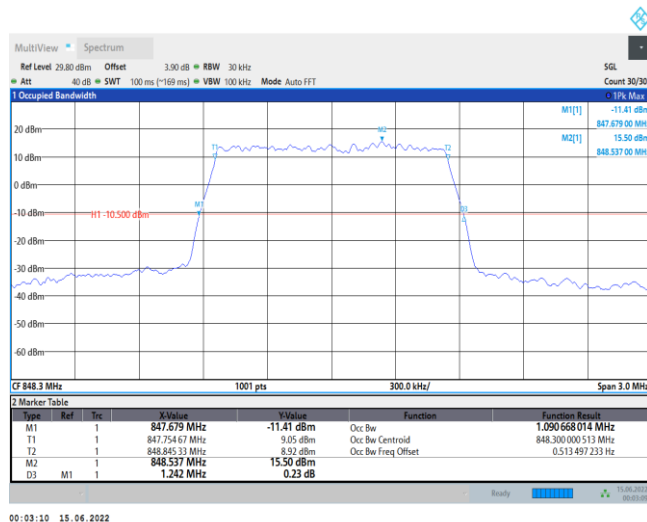
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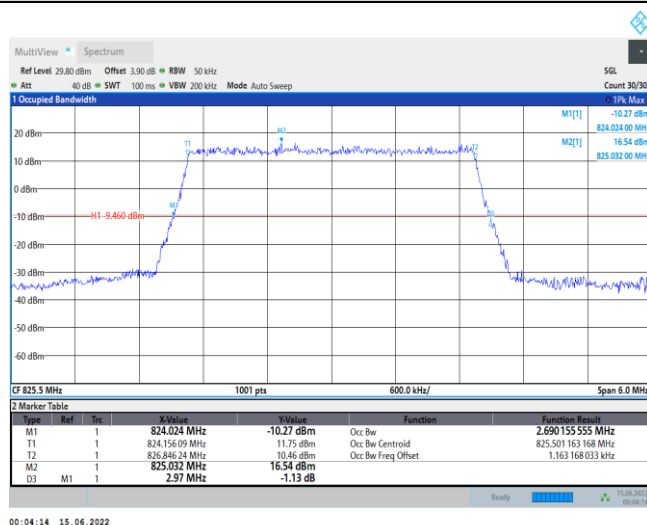
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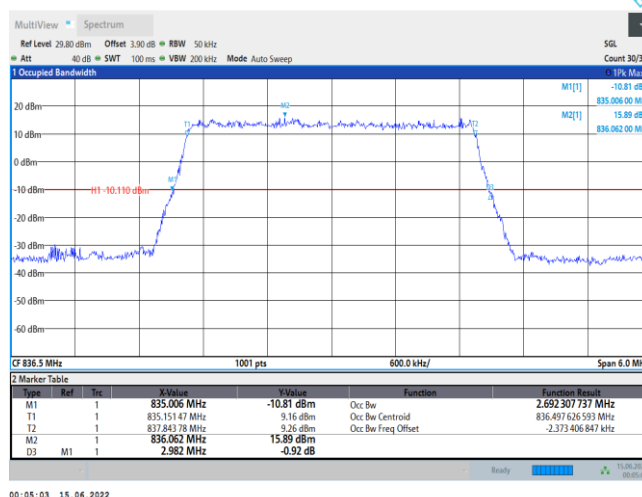
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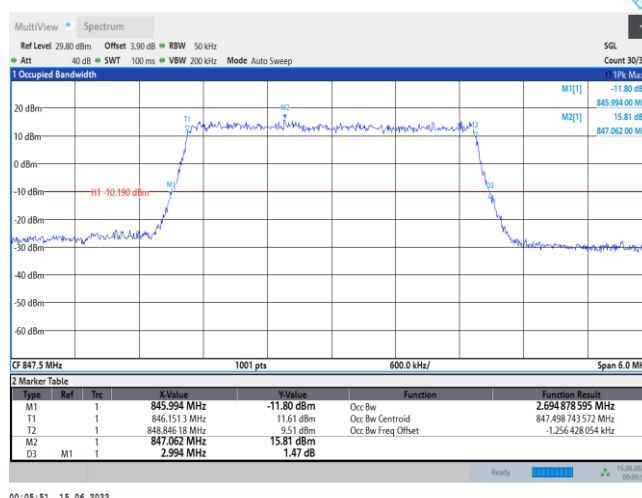
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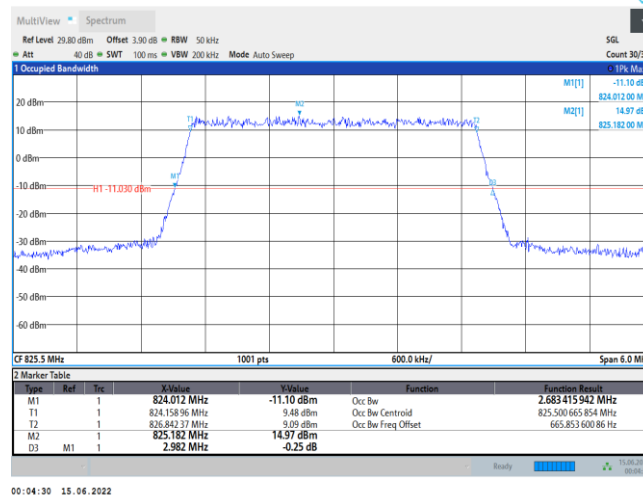
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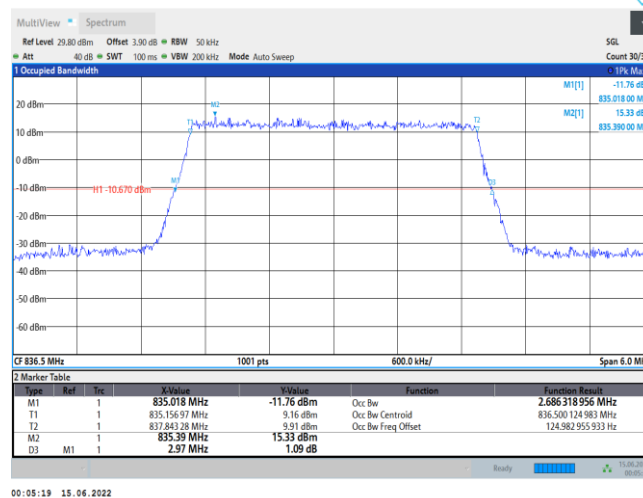
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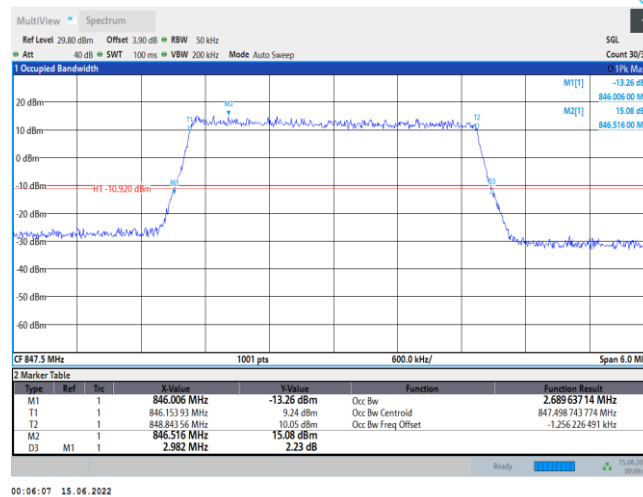
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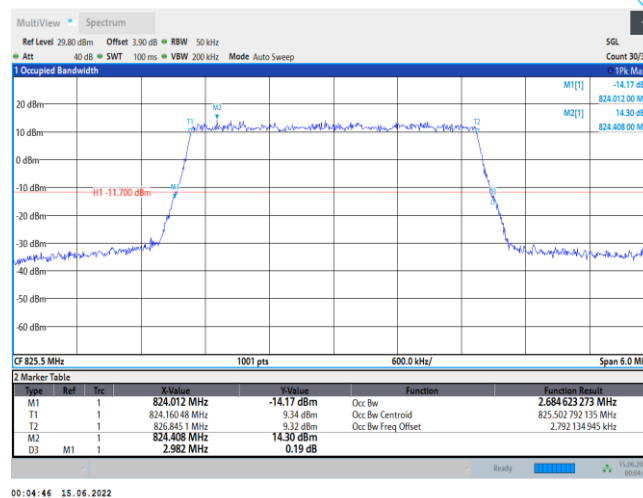
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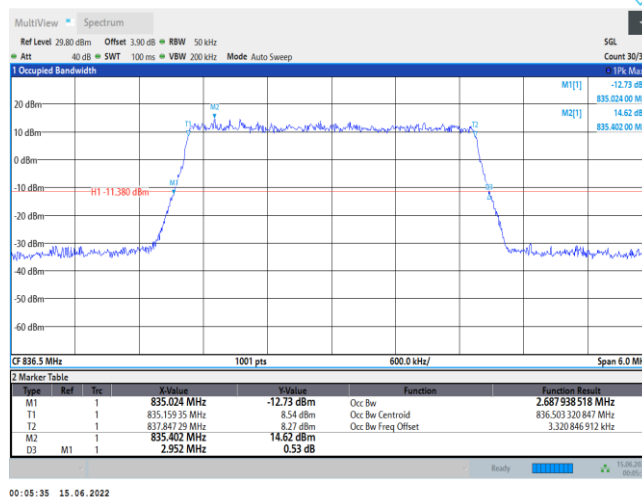
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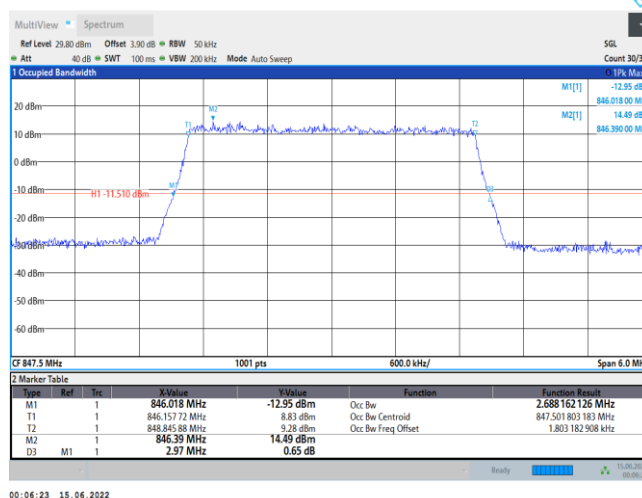
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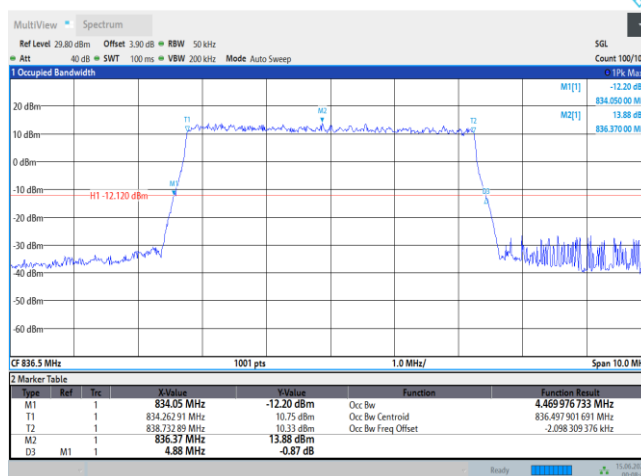
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### Band5-5MHz-QPSK-20525-25RB#0



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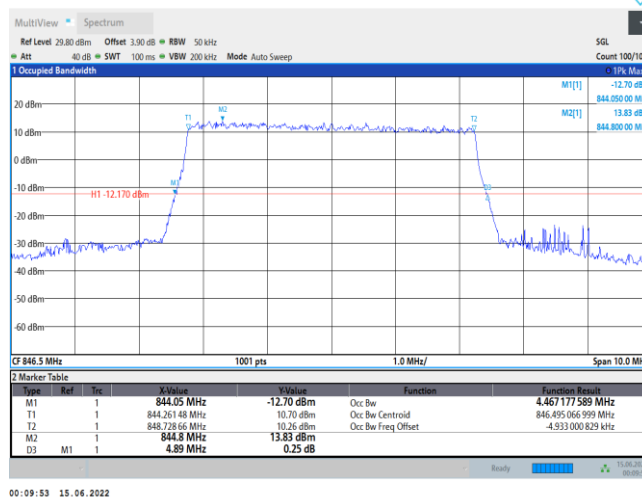
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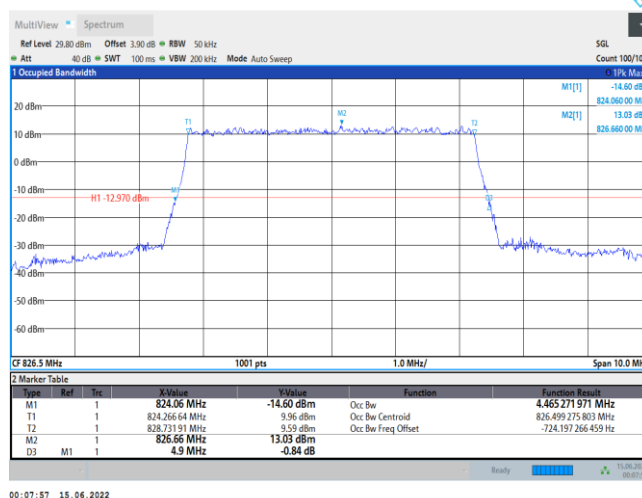
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### Band5-5MHz-16QAM-20425-25RB#0



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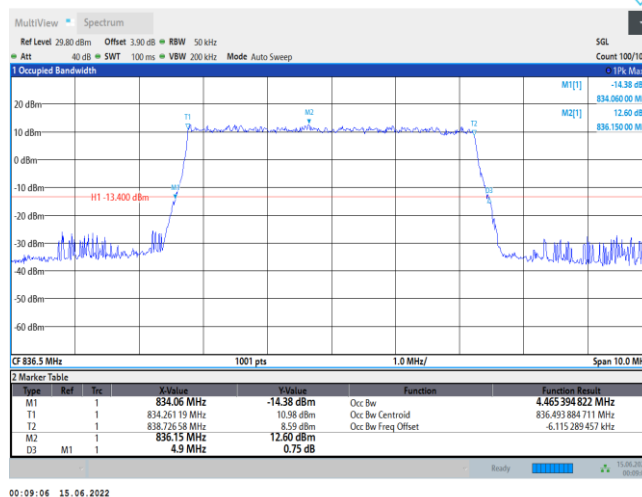
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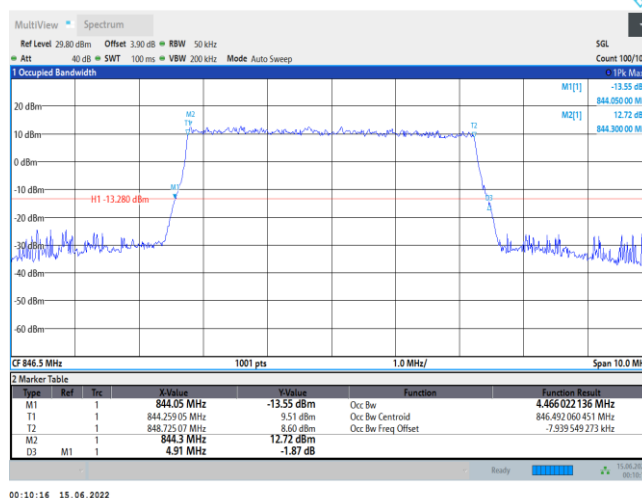
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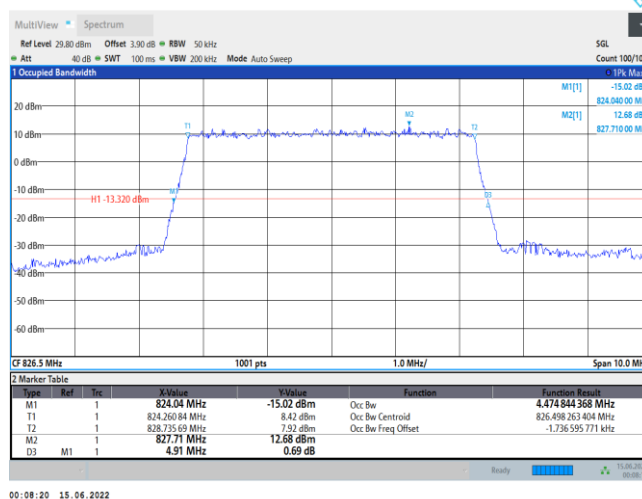
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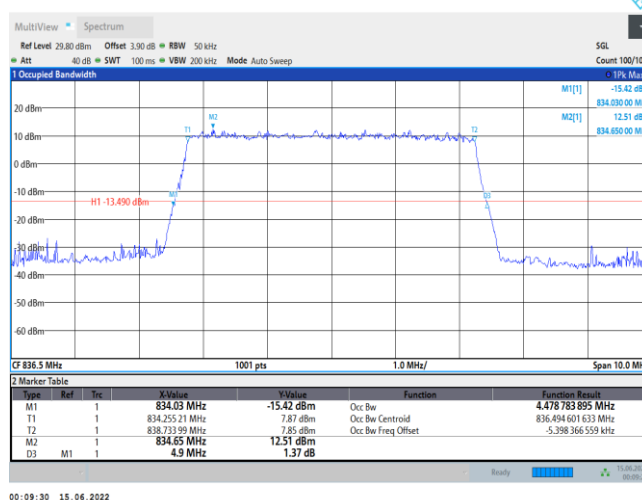
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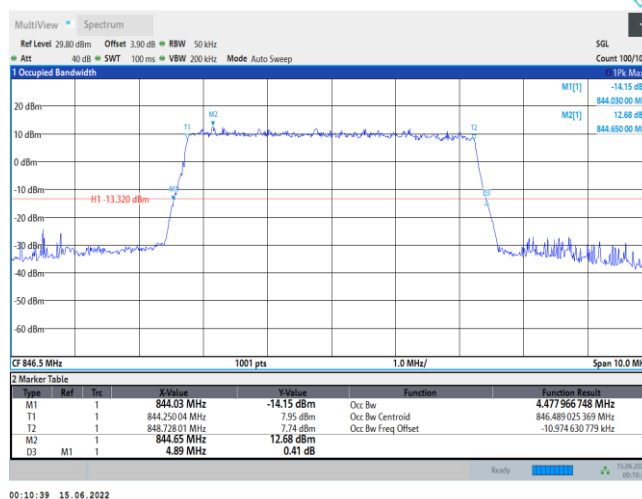
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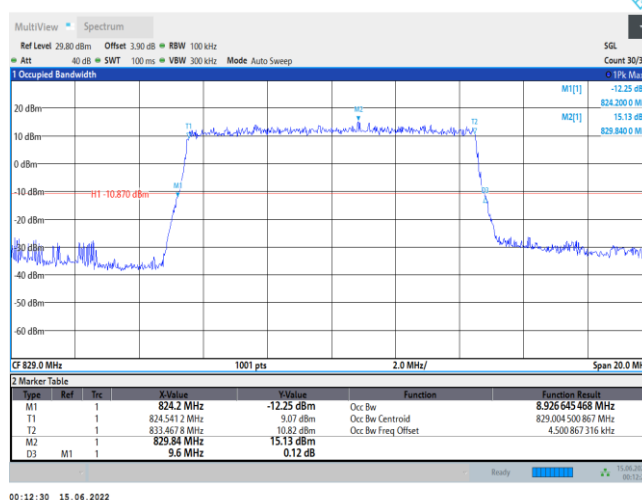
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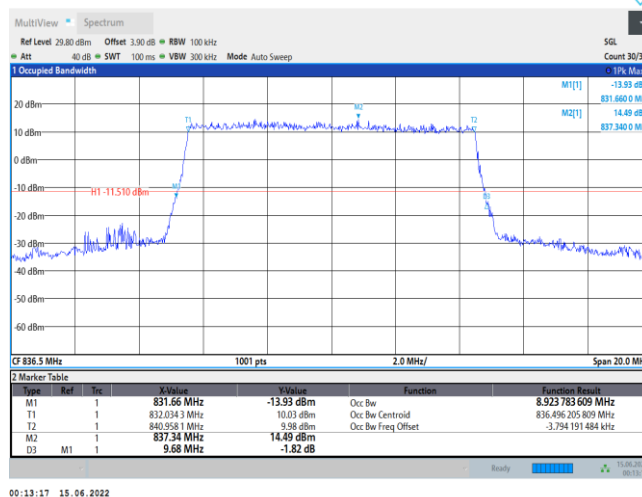
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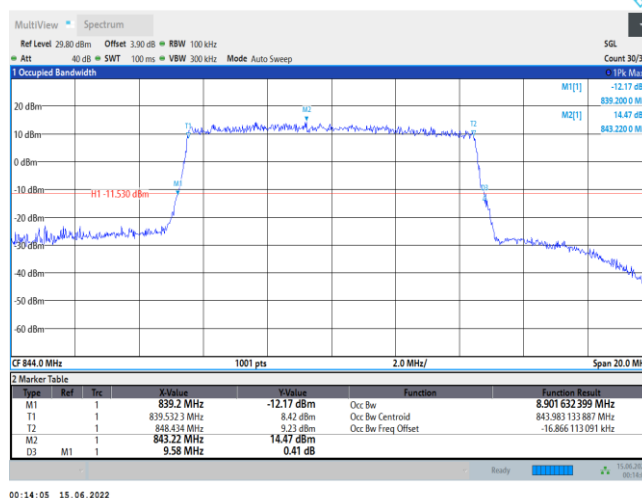
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### Band5-10MHz-QPSK-20600-50RB#0



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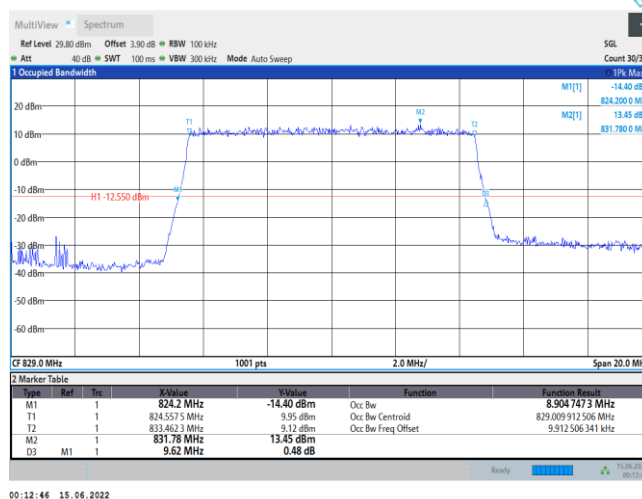
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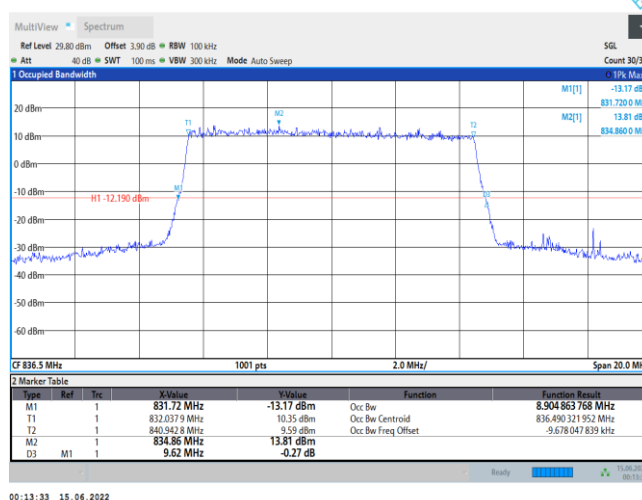
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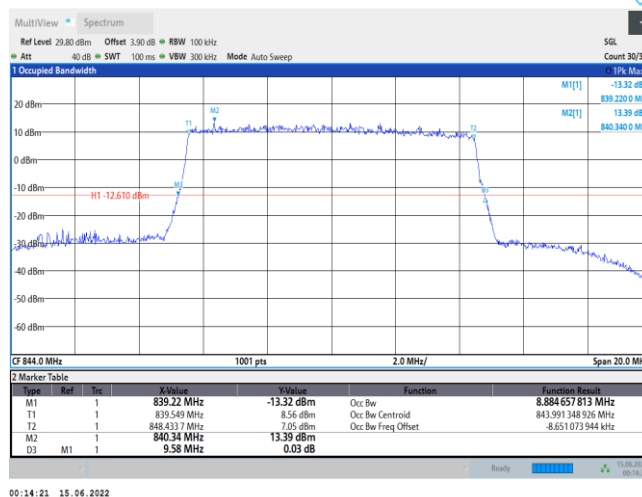
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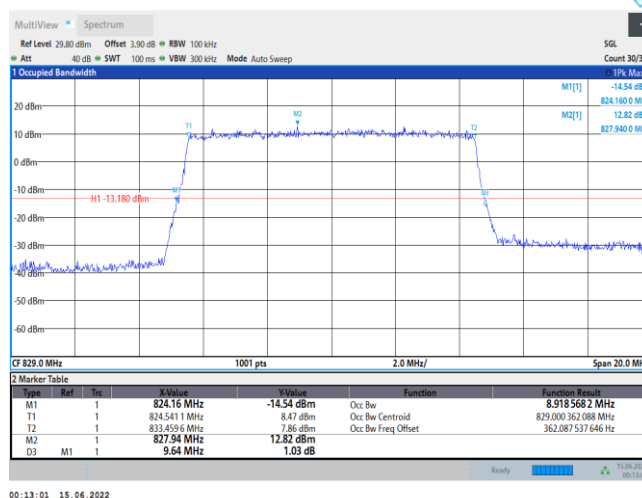
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### Band5-10MHz-64QAM-20450-50RB#0



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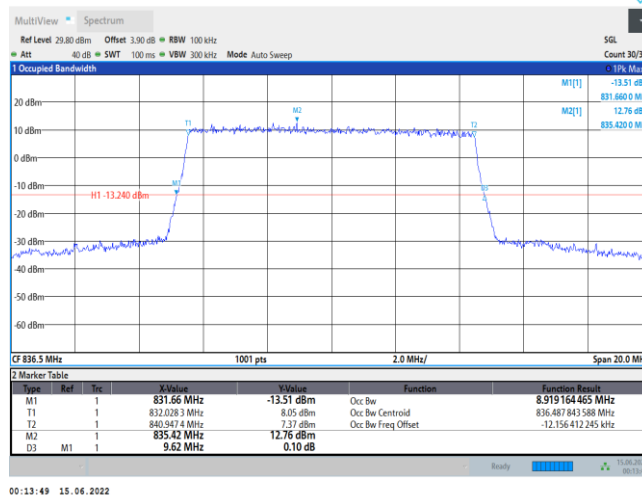
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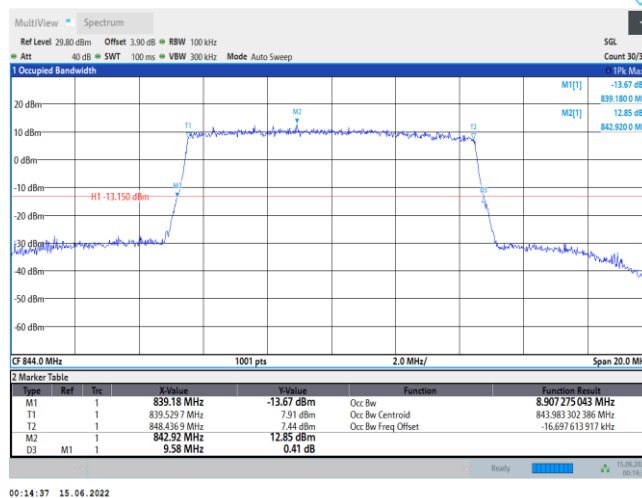
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## Band Edge

## Test Graphs

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Band5-1.4MHz-QPSK-20427-6RB#0



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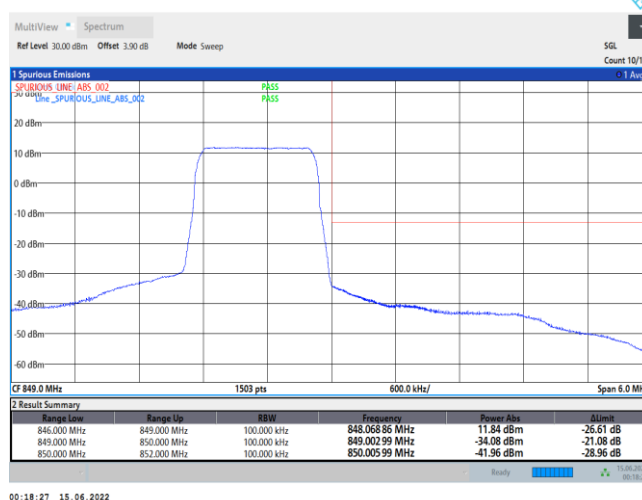
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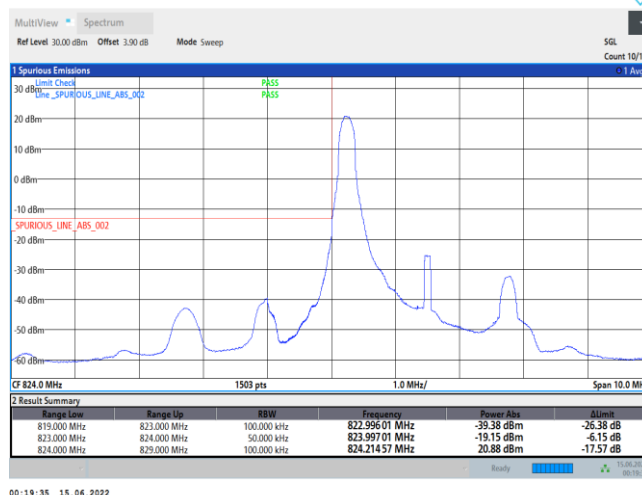
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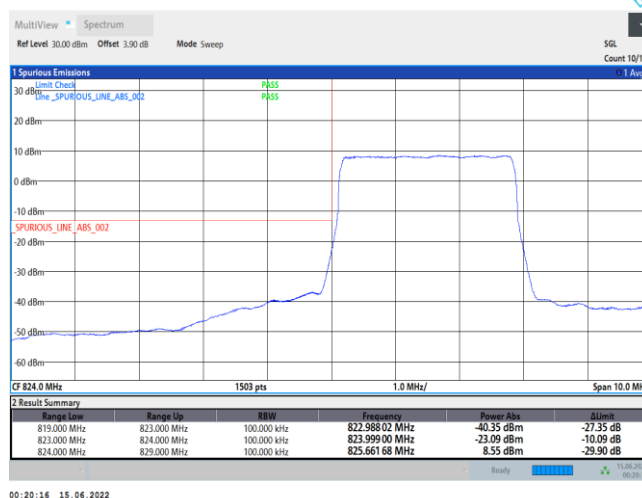
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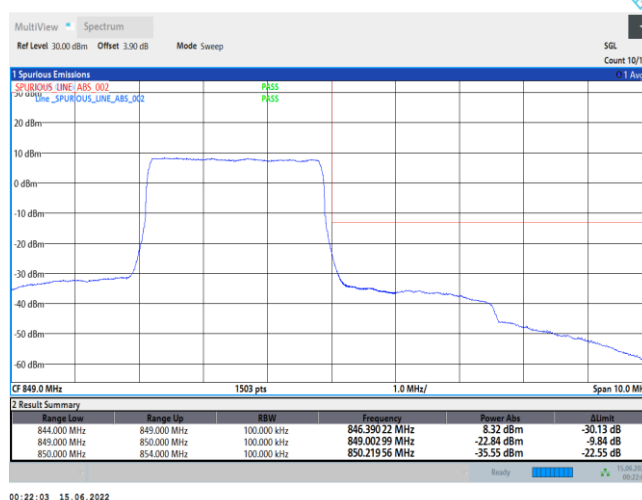
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## Band5-3MHz-QPSK-20635-1RB#14



## Band5-3MHz-QPSK-20635-15RB#0



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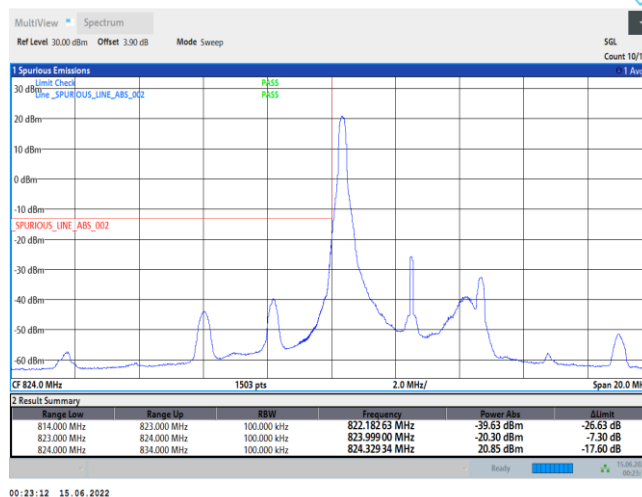
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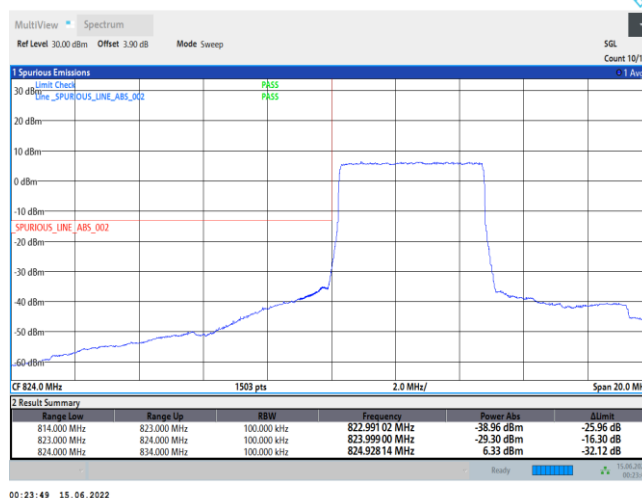
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### Band5-5MHz-QPSK-20425-1RB#0



### Band5-5MHz-QPSK-20425-25RB#0



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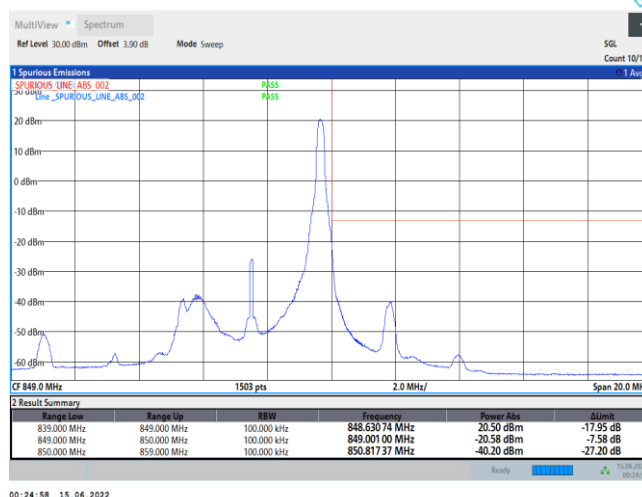
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### Band5-5MHz-QPSK-20625-1RB#24



### Band5-5MHz-QPSK-20625-25RB#0



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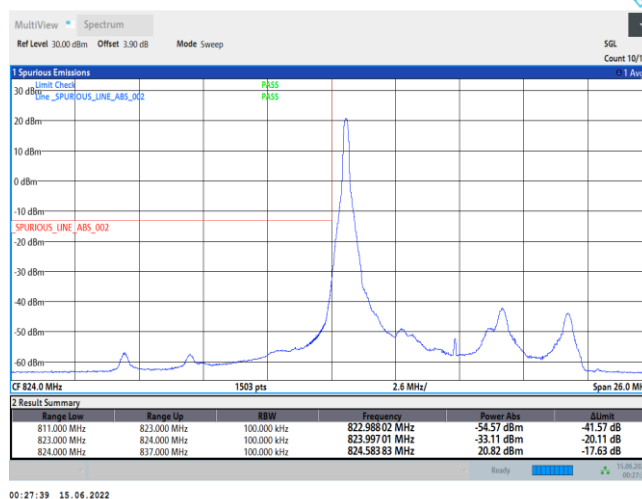
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### Band5-10MHz-QPSK-20450-1RB#0



00:27:39 15.06.2022

### Band5-10MHz-QPSK-20450-50RB#0



00:28:16 15.06.2022



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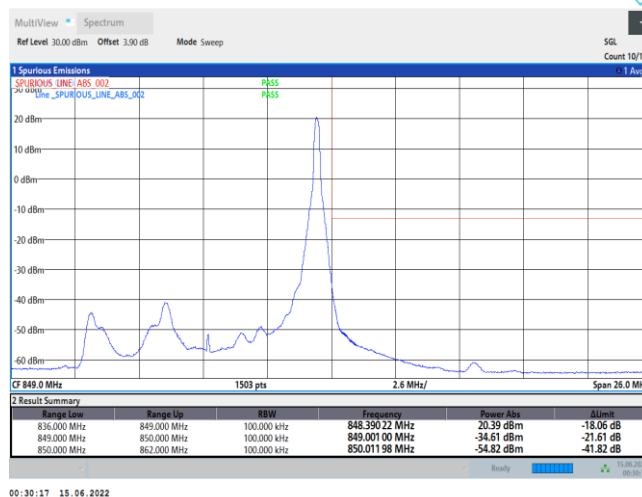
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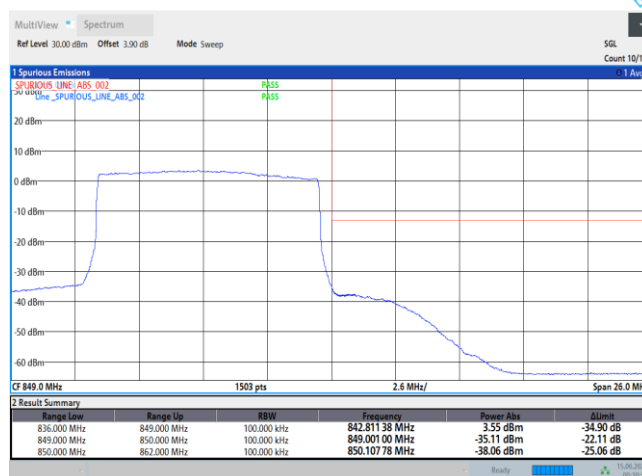
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### Band5-10MHz-QPSK-20600-1RB#49



00:30:17 15.06.2022

### Band5-10MHz-QPSK-20600-50RB#0



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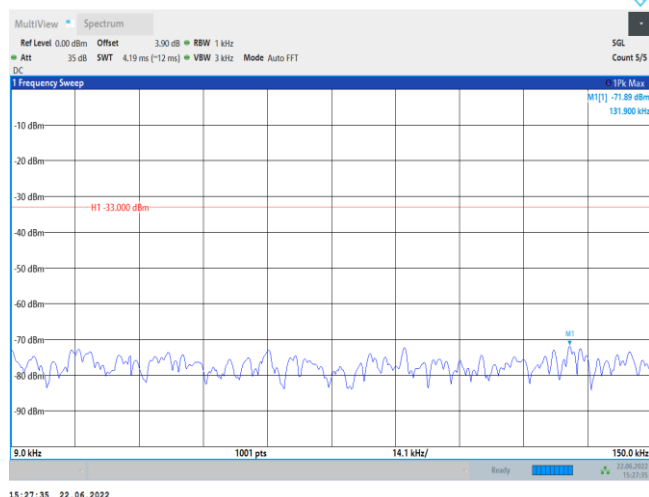
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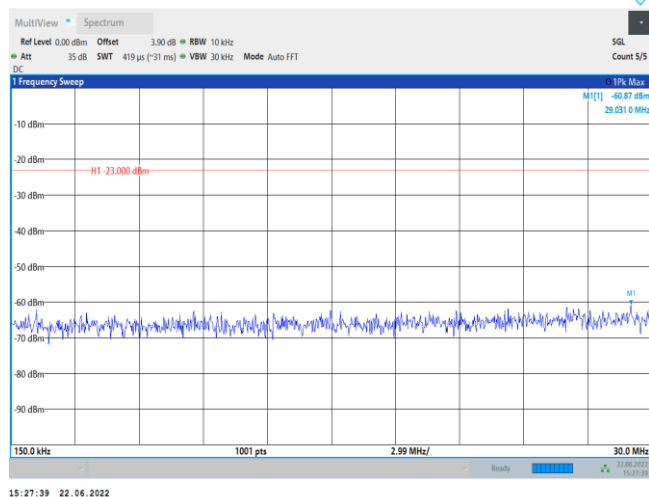
## Conducted Spurious Emission

### Test Graphs

Band5-10MHz-QPSK-20450-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



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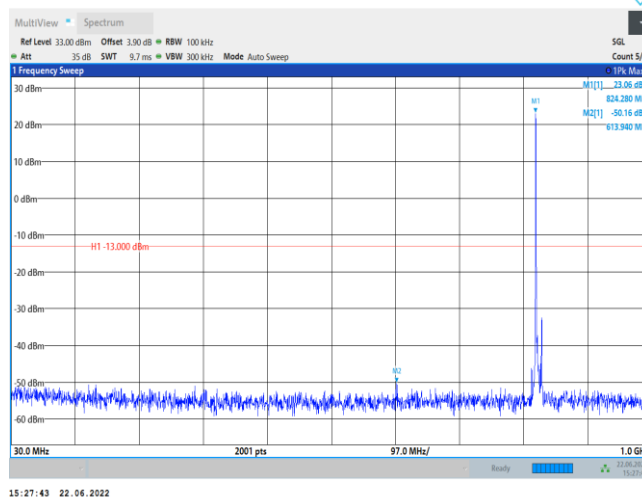
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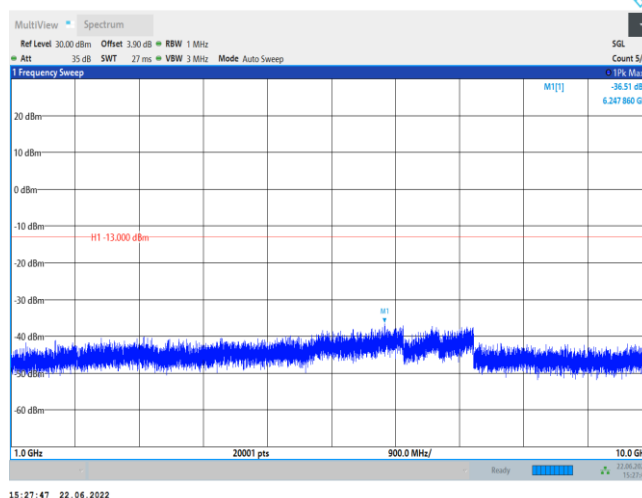
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### Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



### Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



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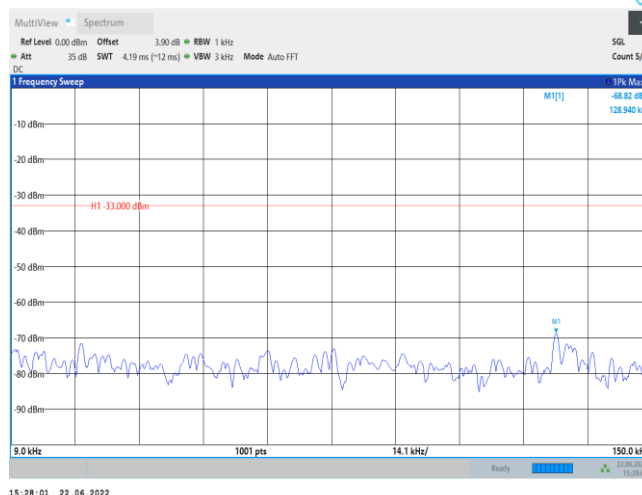
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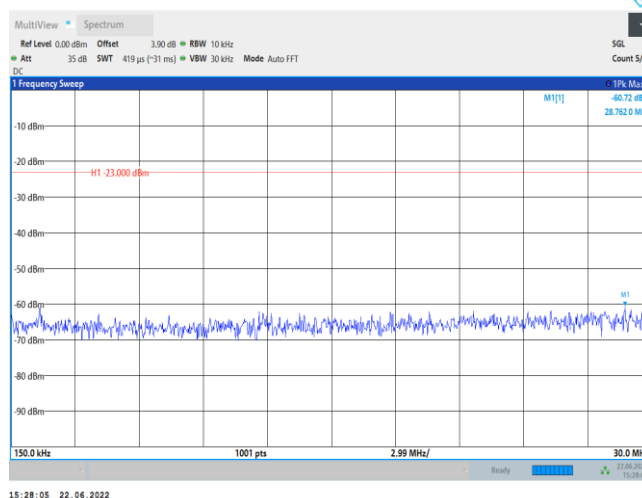
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### Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



### Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



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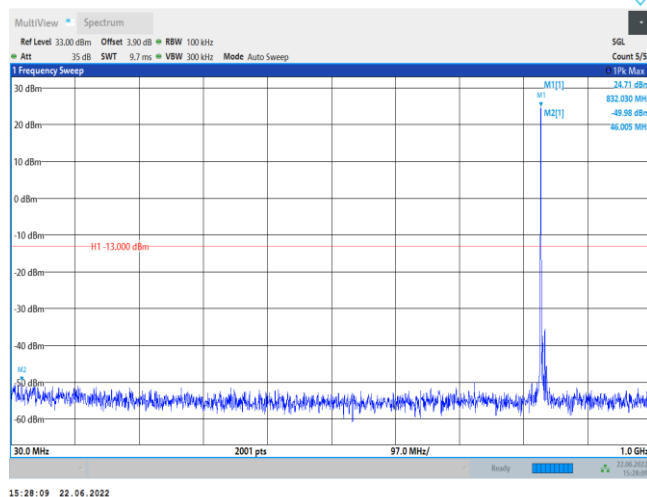
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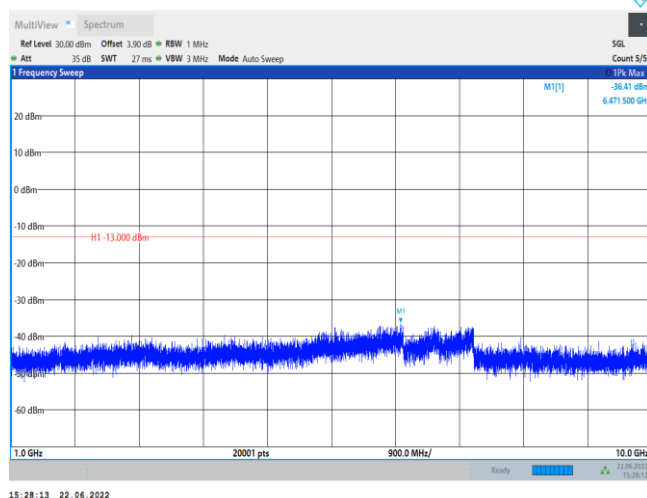
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## Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



## Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



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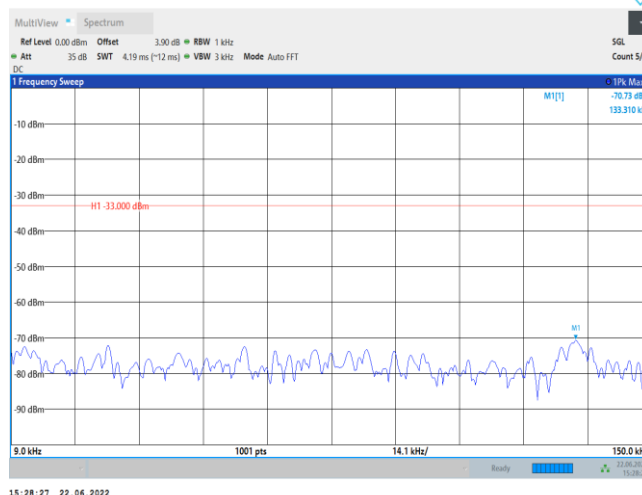
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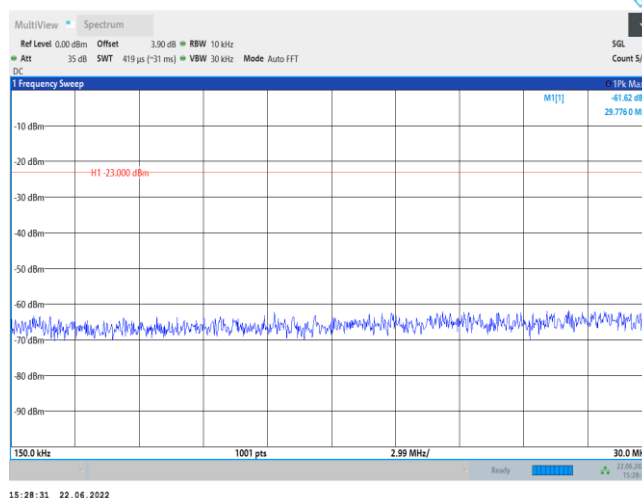
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### Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



### Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



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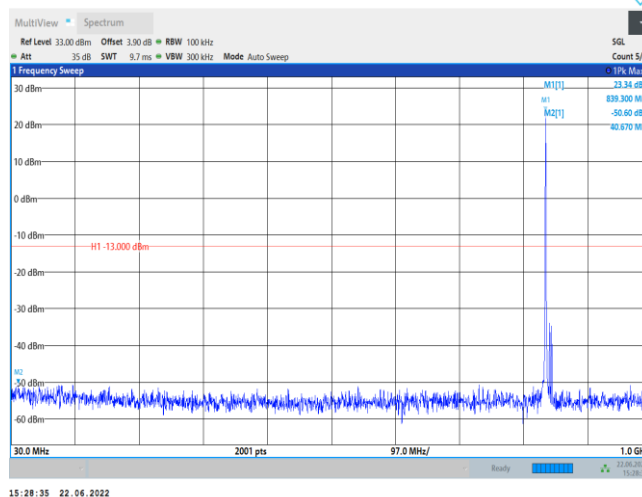
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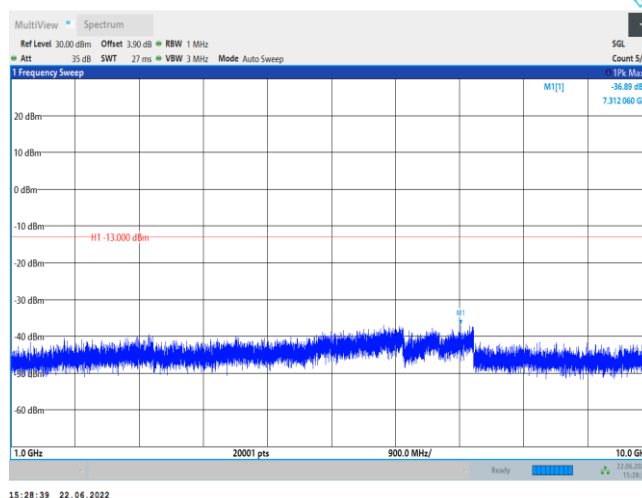
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### Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



### Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE Band 5\_ TM1

Test Channel = Low

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1649.1800       | 50.72          | -118.11     | -67.39      | -13.00      | 54.39       | 261         | 0         | Horizontal |
| 2               | 2473.7700       | 50.57          | -114.89     | -64.32      | -13.00      | 51.32       | 294         | 0         | Horizontal |
| 3               | 3298.3600       | 51.41          | -112.38     | -60.97      | -13.00      | 47.97       | 137         | 357       | Horizontal |
| 4               | 4122.9500       | 48.43          | -110.19     | -61.76      | -13.00      | 48.76       | 234         | 242       | Horizontal |
| 5               | 4947.5400       | 49.49          | -108.22     | -58.73      | -13.00      | 45.73       | 167         | 0         | Horizontal |
| 6               | 5772.1300       | 48.02          | -106.25     | -58.23      | -13.00      | 45.23       | 127         | 307       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1649.1800       | 51.95          | -118.11     | -66.16      | -13.00      | 53.16       | 134         | 53        | Vertical |
| 2               | 2473.7700       | 50.80          | -114.89     | -64.09      | -13.00      | 51.09       | 192         | 12        | Vertical |
| 3               | 3298.3600       | 51.07          | -112.38     | -61.31      | -13.00      | 48.31       | 264         | 105       | Vertical |
| 4               | 4122.9500       | 48.93          | -110.19     | -61.26      | -13.00      | 48.26       | 182         | 331       | Vertical |
| 5               | 4947.5400       | 49.02          | -108.22     | -59.20      | -13.00      | 46.20       | 194         | 53        | Vertical |
| 6               | 5772.1300       | 48.96          | -106.25     | -57.29      | -13.00      | 44.29       | 267         | 356       | Vertical |



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**Test Band = LTE Band 5\_ TM1**
**Test Channel = Mid**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1664.1800       | 51.02          | -118.09     | -67.07      | -13.00      | 54.07       | 261         | 95        | Horizontal |
| 2               | 2496.2700       | 51.28          | -114.78     | -63.50      | -13.00      | 50.50       | 249         | 280       | Horizontal |
| 3               | 3328.3600       | 50.40          | -112.38     | -61.98      | -13.00      | 48.98       | 234         | 3         | Horizontal |
| 4               | 4160.4500       | 49.14          | -110.16     | -61.02      | -13.00      | 48.02       | 164         | 280       | Horizontal |
| 5               | 4992.5400       | 48.20          | -108.19     | -59.99      | -13.00      | 46.99       | 192         | 0         | Horizontal |
| 6               | 5824.6300       | 48.38          | -106.20     | -57.82      | -13.00      | 44.82       | 182         | 68        | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1664.1800       | 51.30          | -118.09     | -66.79      | -13.00      | 53.79       | 162         | 12        | Vertical |
| 2               | 2496.2700       | 51.57          | -114.78     | -63.21      | -13.00      | 50.21       | 192         | 184       | Vertical |
| 3               | 3328.3600       | 50.41          | -112.38     | -61.97      | -13.00      | 48.97       | 137         | 3         | Vertical |
| 4               | 4160.4500       | 49.21          | -110.16     | -60.95      | -13.00      | 47.95       | 261         | 25        | Vertical |
| 5               | 4992.5400       | 48.19          | -108.19     | -60.00      | -13.00      | 47.00       | 281         | 3         | Vertical |
| 6               | 5824.6300       | 48.17          | -106.20     | -58.03      | -13.00      | 45.03       | 167         | 359       | Vertical |



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**Test Band = LTE Band 5\_ TM1**

**Test Channel = High**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1679.1800       | 52.28          | -118.06     | -65.78      | -13.00      | 52.78       | 182         | 189       | Horizontal |
| 2               | 2518.7700       | 50.72          | -114.63     | -63.91      | -13.00      | 50.91       | 192         | 356       | Horizontal |
| 3               | 3358.3600       | 51.85          | -112.38     | -60.53      | -13.00      | 47.53       | 264         | 189       | Horizontal |
| 4               | 4197.9500       | 48.40          | -110.12     | -61.72      | -13.00      | 48.72       | 291         | 176       | Horizontal |
| 5               | 5037.5400       | 47.93          | -108.01     | -60.08      | -13.00      | 47.08       | 237         | 228       | Horizontal |
| 6               | 5887.1300       | 48.79          | -106.27     | -57.48      | -13.00      | 44.48       | 172         | 332       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1679.1800       | 52.51          | -118.06     | -65.55      | -13.00      | 52.55       | 182         | 279       | Vertical |
| 2               | 2518.7700       | 52.03          | -114.63     | -62.60      | -13.00      | 49.60       | 293         | 360       | Vertical |
| 3               | 3358.3600       | 51.27          | -112.38     | -61.11      | -13.00      | 48.11       | 272         | 356       | Vertical |
| 4               | 4197.9500       | 48.94          | -110.12     | -61.18      | -13.00      | 48.18       | 192         | 147       | Vertical |
| 5               | 5037.5400       | 48.38          | -108.01     | -59.63      | -13.00      | 46.63       | 172         | 360       | Vertical |
| 6               | 5887.1300       | 49.17          | -106.27     | -57.10      | -13.00      | 44.10       | 237         | 344       | Vertical |

Remark:

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

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)



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## Frequency Stability

### Test Result

| Voltage |           |            |         |              |               |                  |                |                 |             |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band5   | 10MHz     | QPSK       | 20525   | 50RB#0       | VL            | NT               | 0.10           | 0.000120        | ±2.5        | PASS    |
| Band5   | 10MHz     | QPSK       | 20525   | 50RB#0       | VN            | NT               | 0.30           | 0.000359        | ±2.5        | PASS    |
| Band5   | 10MHz     | QPSK       | 20525   | 50RB#0       | VH            | NT               | 3.20           | 0.003825        | ±2.5        | PASS    |

| Temperature |           |            |         |              |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | -30              | 1.20           | 0.001435        | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | -20              | -5.30          | -0.006336       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | -10              | -1.00          | -0.001195       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 0                | -3.20          | -0.003825       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 10               | -1.80          | -0.002152       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 20               | 0.20           | 0.000239        | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 30               | -1.60          | -0.001913       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 40               | -3.20          | -0.003825       | ±2.5        | PASS    |
| Band5       | 10MHz     | QPSK       | 20525   | 50RB#0       | NV            | 50               | -2.60          | -0.003108       | ±2.5        | PASS    |

The End



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