



Appendix B

E-UTRA Band 5



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CONTENT

| | | |
|-----------|--|-----------|
| 1 | EFFECTIVE (ISOTROPIC) RADIATED POWER | 3 |
| 1.1. | TEST RESULT | 3 |
| 2. | PEAK-TO-AVERAGE RATIO (CCDF) | 9 |
| 2.1. | TEST RESULT | 9 |
| 2.2. | TEST PLOTS..... | 9 |
| 3. | MODULATION CHARACTERISTICS | 13 |
| 3.1. | TEST MODE = LTE /TM1 10MHZ..... | 13 |
| 3.1.1. | TEST CHANNEL = MCH..... | 13 |
| 3.2. | TEST MODE = LTE /TM2 10MHZ..... | 14 |
| 3.2.1. | TEST CHANNEL = MCH..... | 14 |
| 4. | 26DB BANDWIDTH AND OCCUPIED BANDWIDTH | 15 |
| 4.1. | TEST RESULT | 15 |
| 4.2. | TEST PLOTS..... | 16 |
| 5. | BAND EDGE COMPLIANCE | 28 |
| 5.1. | TEST PLOTS..... | 28 |
| 6. | SPURIOUS EMISSION AT ANTENNA TERMINAL | 44 |
| 6.1. | TEST PLOTS..... | 44 |
| 7. | FIELD STRENGTH OF SPURIOUS RADIATION | 50 |
| 7.1. | TEST MODE =LTE/TM1 | 50 |
| 7.1.1. | TEST CHANNEL = LCH | 50 |
| 7.1.2. | TEST CHANNEL = MCH..... | 50 |
| 7.1.3. | TEST CHANNEL = HCH..... | 51 |
| 8. | FREQUENCY STABILITY..... | 52 |
| 8.1. | FREQUENCY VS VOLTAGE | 52 |
| 8.2. | FREQUENCY VS TEMPERATURE | 52 |



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Conducted Power(dBm) | ERP (dBm) | Limit (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|----------------------|-----------|-------------|---------|
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | 23.31 | 19.76 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#2 | 23.46 | 19.91 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#5 | 23.34 | 19.79 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 3RB#0 | 23.55 | 20.00 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 3RB#1 | 23.47 | 19.92 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 3RB#3 | 23.49 | 19.94 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 22.40 | 18.85 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | 23.29 | 19.74 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#5 | 23.30 | 19.75 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#2 | 23.36 | 19.81 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 3RB#0 | 23.30 | 19.75 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 3RB#1 | 23.41 | 19.86 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 3RB#3 | 23.49 | 19.94 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | 22.45 | 18.90 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#5 | 23.40 | 19.85 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | 23.50 | 19.95 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#2 | 23.49 | 19.94 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 3RB#0 | 23.45 | 19.90 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 3RB#1 | 23.49 | 19.94 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 3RB#3 | 23.50 | 19.95 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 22.48 | 18.93 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | 22.03 | 18.48 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#2 | 22.28 | 18.73 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#5 | 22.11 | 18.56 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 3RB#1 | 22.52 | 18.97 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 3RB#0 | 22.42 | 18.87 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 3RB#3 | 22.60 | 19.05 | 38.45 | PASS |



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| | | | | | | | | |
|-------|--------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 21.67 | 18.12 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | 22.16 | 18.61 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#2 | 22.12 | 18.57 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#5 | 22.16 | 18.61 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#3 | 22.52 | 18.97 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#0 | 22.38 | 18.83 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#1 | 22.51 | 18.96 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | 21.35 | 17.80 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#2 | 21.98 | 18.43 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | 21.95 | 18.40 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#5 | 22.09 | 18.54 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#0 | 22.65 | 19.10 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#1 | 22.64 | 19.09 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#3 | 22.67 | 19.12 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 21.64 | 18.09 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#8 | 23.21 | 19.66 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#14 | 23.29 | 19.74 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | 23.52 | 19.97 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 8RB#0 | 22.33 | 18.78 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 8RB#4 | 22.43 | 18.88 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 8RB#7 | 22.34 | 18.79 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 22.45 | 18.90 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | 23.52 | 19.97 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#14 | 23.46 | 19.91 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#8 | 23.33 | 19.78 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 8RB#7 | 22.38 | 18.83 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 8RB#0 | 22.47 | 18.92 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 8RB#4 | 22.38 | 18.83 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | 22.56 | 19.01 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#8 | 23.39 | 19.84 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | 23.49 | 19.94 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#14 | 23.47 | 19.92 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 8RB#0 | 22.28 | 18.73 | 38.45 | PASS |



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| | | | | | | | | |
|-------|------|-------|-------|---------|-------|-------|-------|------|
| Band5 | 3MHz | QPSK | 20635 | 8RB#7 | 22.48 | 18.93 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 8RB#4 | 22.47 | 18.92 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 22.45 | 18.90 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#14 | 21.98 | 18.43 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 22.14 | 18.59 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#8 | 22.08 | 18.53 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#7 | 21.40 | 17.85 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#4 | 21.27 | 17.72 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#0 | 21.37 | 17.82 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 21.42 | 17.87 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#14 | 22.01 | 18.46 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 22.12 | 18.57 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#8 | 22.02 | 18.47 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#7 | 21.29 | 17.74 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#0 | 21.25 | 17.70 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#4 | 21.20 | 17.65 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 21.34 | 17.79 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#8 | 22.14 | 18.59 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 22.07 | 18.52 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#14 | 22.11 | 18.56 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#0 | 21.07 | 17.52 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#4 | 21.34 | 17.79 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#7 | 21.24 | 17.69 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 21.36 | 17.81 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | 23.24 | 19.69 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#12 | 23.14 | 19.59 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#24 | 23.29 | 19.74 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 12RB#0 | 22.36 | 18.81 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 12RB#6 | 22.41 | 18.86 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 12RB#13 | 22.31 | 18.76 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 22.31 | 18.76 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | 23.19 | 19.64 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#24 | 23.40 | 19.85 | 38.45 | PASS |



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| | | | | | | | | |
|-------|------|-------|-------|---------|-------|-------|-------|------|
| Band5 | 5MHz | QPSK | 20525 | 1RB#12 | 23.10 | 19.55 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 12RB#0 | 22.38 | 18.83 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 12RB#6 | 22.34 | 18.79 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 12RB#13 | 22.51 | 18.96 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | 22.44 | 18.89 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#24 | 23.38 | 19.83 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | 23.31 | 19.76 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#12 | 23.23 | 19.68 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 12RB#0 | 22.24 | 18.69 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 12RB#6 | 22.38 | 18.83 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 12RB#13 | 22.49 | 18.94 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 22.30 | 18.75 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 22.03 | 18.48 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#12 | 22.62 | 19.07 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#24 | 21.88 | 18.33 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#6 | 21.42 | 17.87 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#0 | 21.42 | 17.87 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#13 | 21.36 | 17.81 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 21.32 | 17.77 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 22.04 | 18.49 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#12 | 22.50 | 18.95 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#24 | 21.86 | 18.31 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#13 | 21.05 | 17.50 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#0 | 21.39 | 17.84 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#6 | 21.39 | 17.84 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 21.31 | 17.76 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#12 | 22.56 | 19.01 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | 21.81 | 18.26 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#24 | 22.11 | 18.56 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#0 | 21.31 | 17.76 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#6 | 21.20 | 17.65 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#13 | 21.49 | 17.94 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 21.31 | 17.76 | 38.45 | PASS |



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|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band5 | 10MHz | QPSK | 20450 | 1RB#49 | 23.33 | 19.78 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#24 | 23.22 | 19.67 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | 23.47 | 19.92 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 25RB#0 | 22.50 | 18.95 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 25RB#12 | 22.38 | 18.83 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 25RB#25 | 22.40 | 18.85 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 22.29 | 18.74 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | 23.37 | 19.82 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#49 | 23.22 | 19.67 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#24 | 23.55 | 20.00 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 25RB#25 | 22.53 | 18.98 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 25RB#0 | 22.64 | 19.09 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 25RB#12 | 22.43 | 18.88 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 22.45 | 18.90 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#24 | 23.51 | 19.96 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | 23.23 | 19.68 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#49 | 23.59 | 20.04 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 25RB#0 | 22.34 | 18.79 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 25RB#25 | 22.43 | 18.88 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 25RB#12 | 22.31 | 18.76 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 22.34 | 18.79 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49 | 22.14 | 18.59 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 22.20 | 18.65 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#24 | 22.04 | 18.49 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#25 | 21.39 | 17.84 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#12 | 21.23 | 17.68 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#0 | 21.40 | 17.85 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 21.31 | 17.76 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#49 | 21.97 | 18.42 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 22.18 | 18.63 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#24 | 22.19 | 18.64 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#25 | 21.58 | 18.03 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#0 | 21.46 | 17.91 | 38.45 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band5 | 10MHz | 16QAM | 20525 | 25RB#12 | 21.43 | 17.88 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 21.37 | 17.82 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#24 | 22.26 | 18.71 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 22.05 | 18.50 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49 | 22.10 | 18.55 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#0 | 21.47 | 17.92 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#12 | 21.42 | 17.87 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#25 | 21.22 | 17.67 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 21.45 | 17.90 | 38.45 | PASS |

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



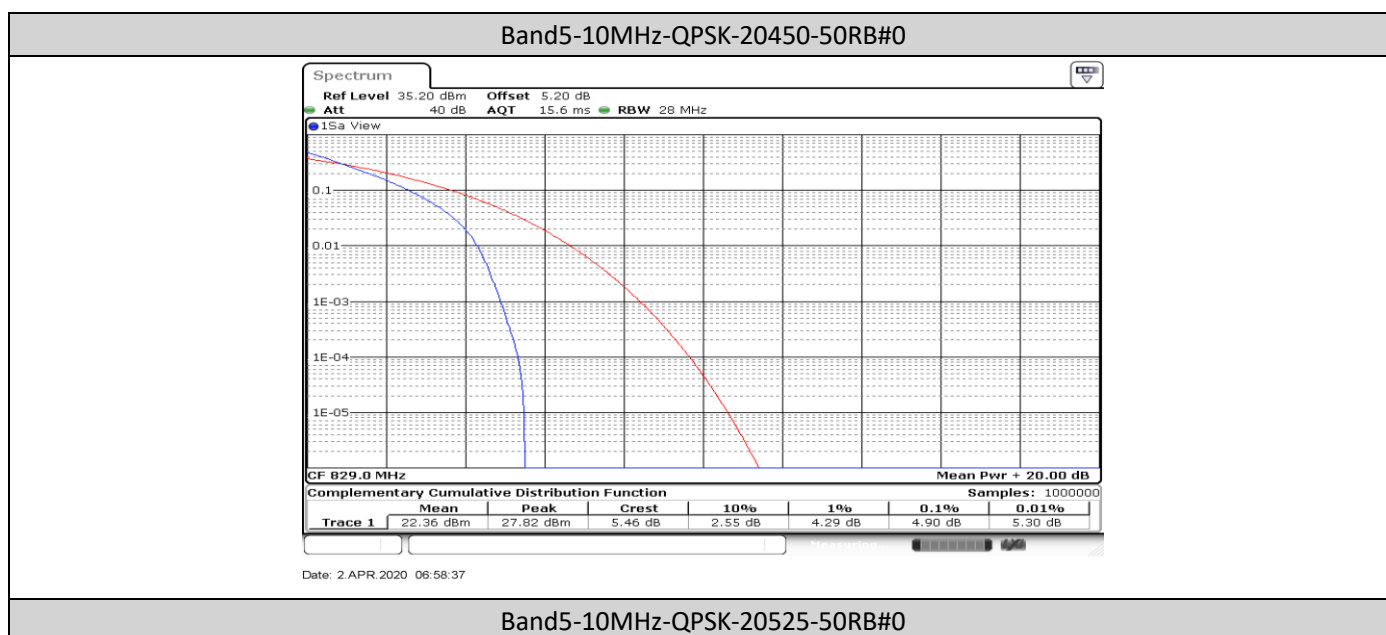


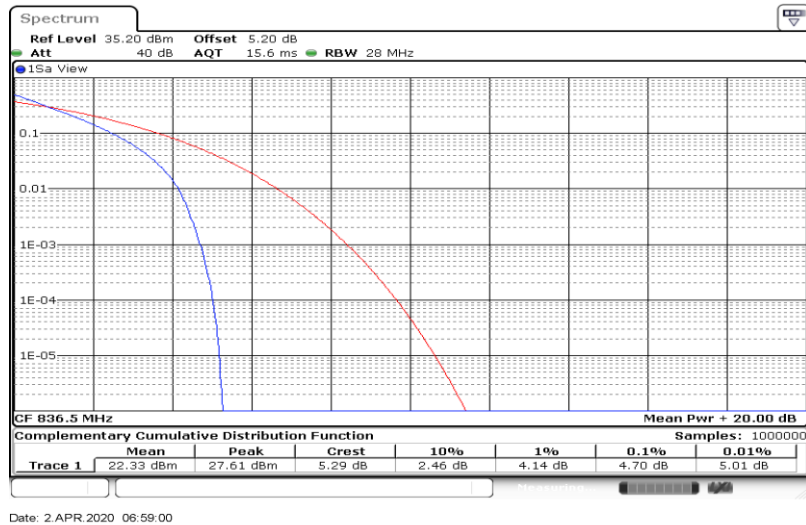
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

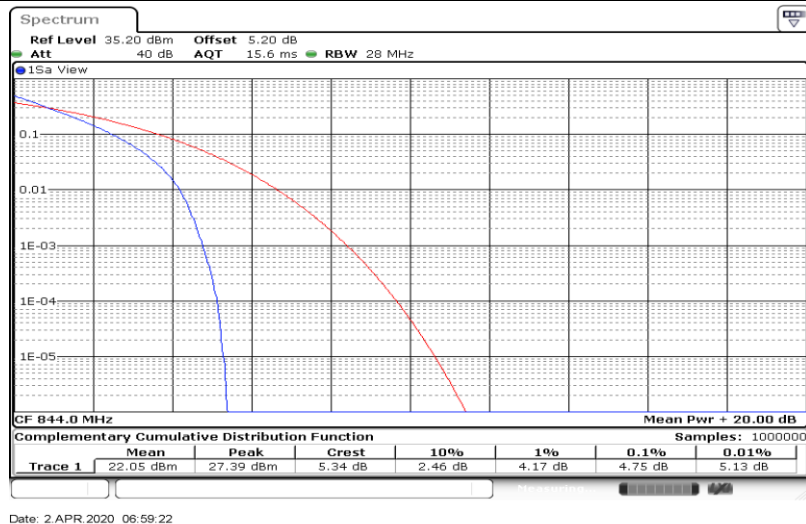
| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 4.90 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 4.70 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 4.75 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 5.74 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 5.57 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 5.59 | 13 | PASS |

2.2. Test Plots





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

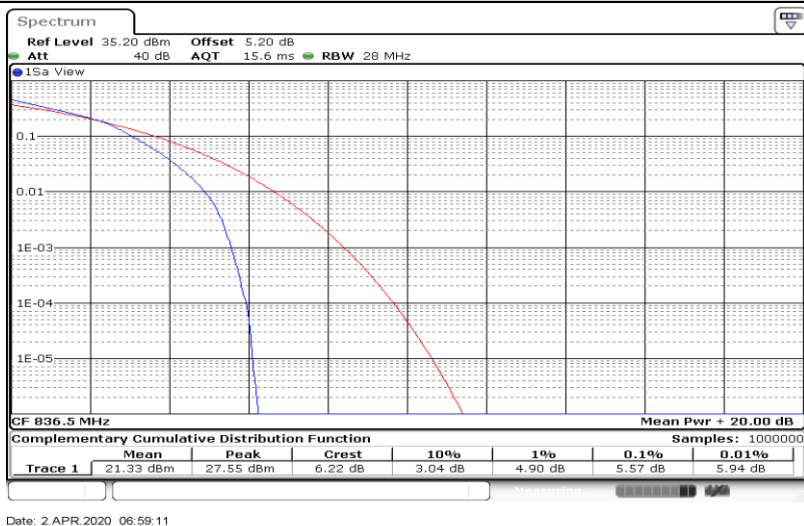


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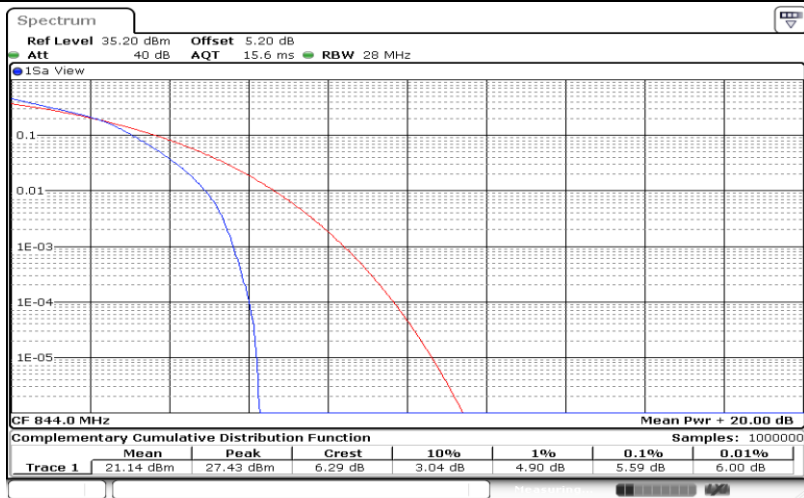


Band5-10MHz-16QAM-20525-50RB#0



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





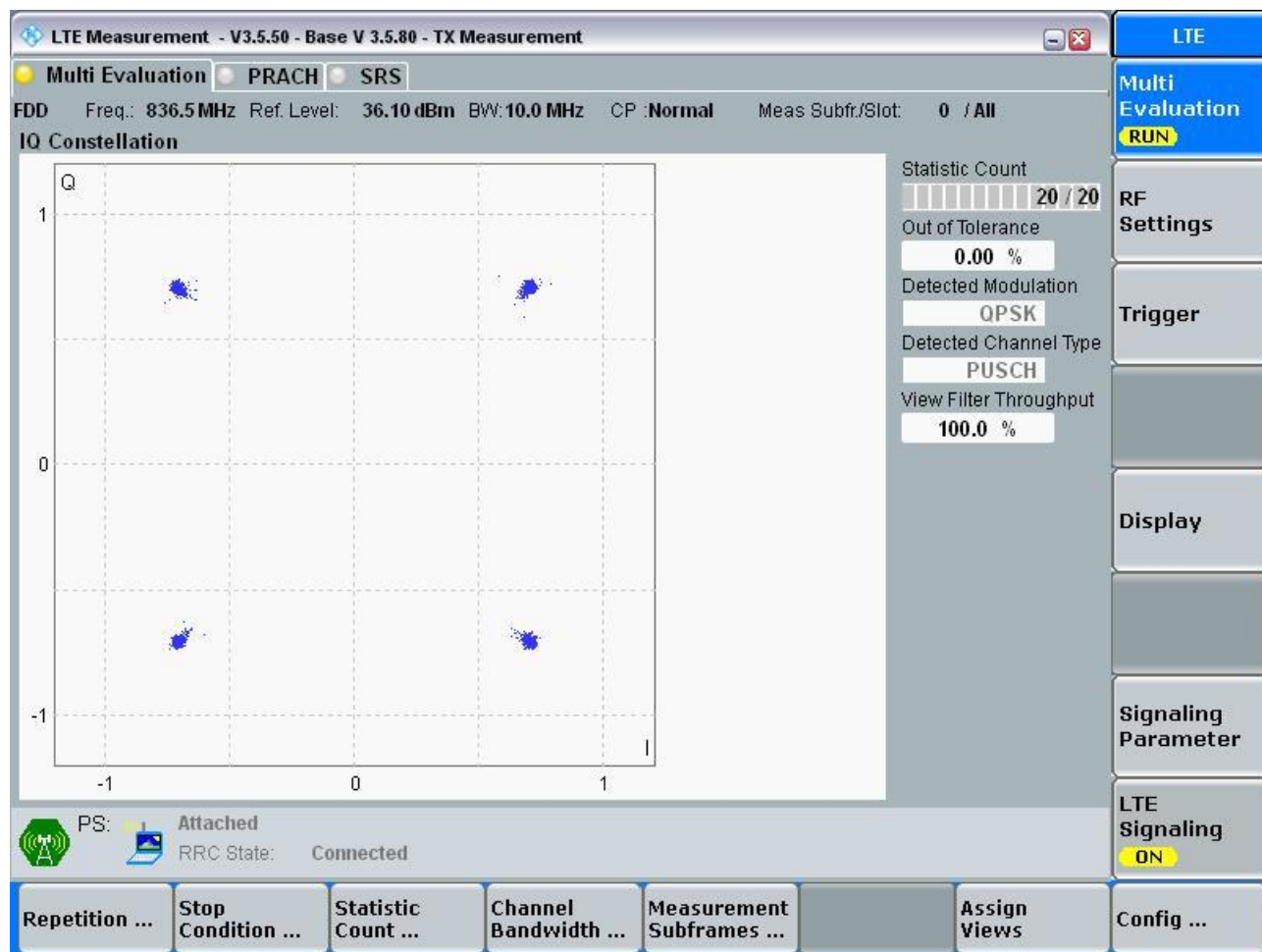
Date: 2 APR 2020 06:59:33



3. Modulation Characteristics

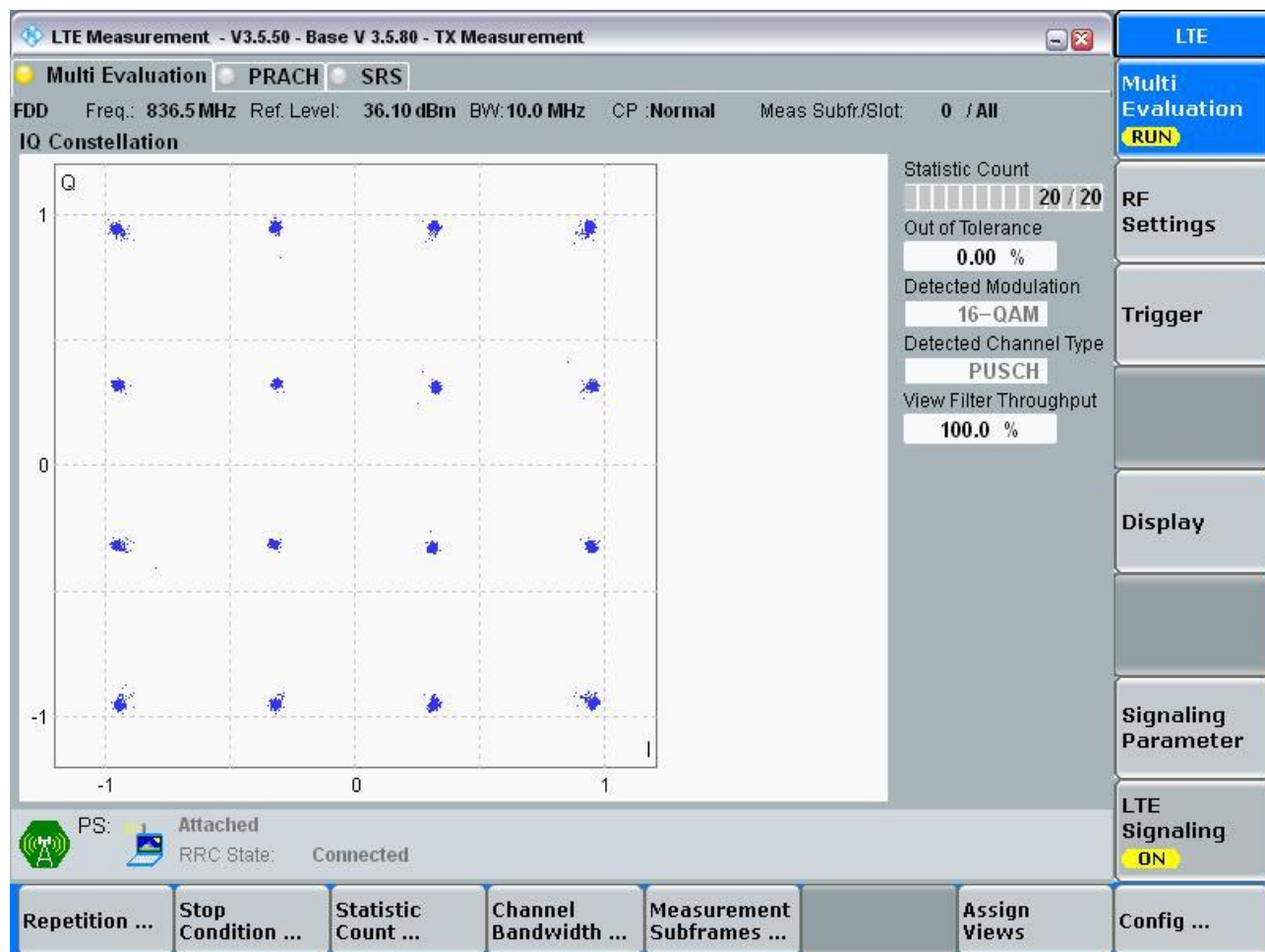
3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 1.094 | 1.296 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | 1.094 | 1.290 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 1.094 | 1.296 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 1.088 | 1.287 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | 1.088 | 1.281 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 1.091 | 1.281 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 2.697 | 2.994 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | 2.697 | 2.994 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 2.697 | 2.994 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 2.685 | 2.976 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 2.685 | 2.970 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 2.685 | 2.964 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 4.466 | 4.920 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | 4.476 | 4.920 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 4.466 | 4.910 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 4.476 | 4.960 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 4.486 | 4.950 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 4.486 | 4.950 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 8.911 | 9.700 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 8.911 | 9.660 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 8.891 | 9.720 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 8.911 | 9.720 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 8.911 | 9.700 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 8.911 | 9.740 | PASS |



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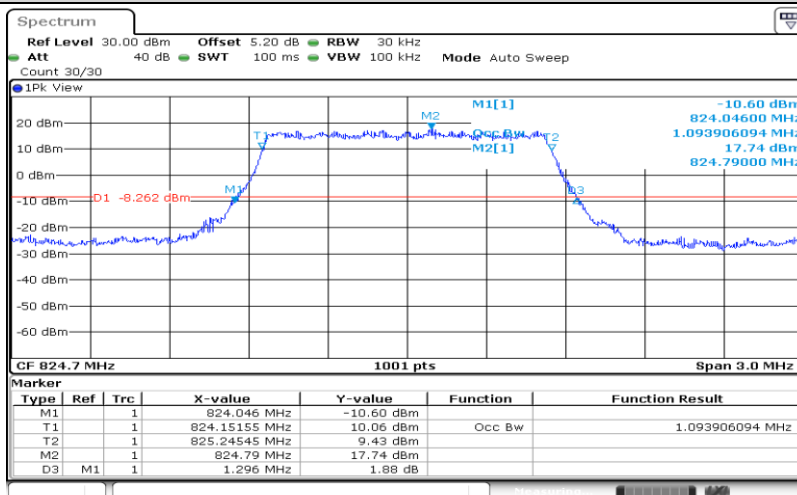
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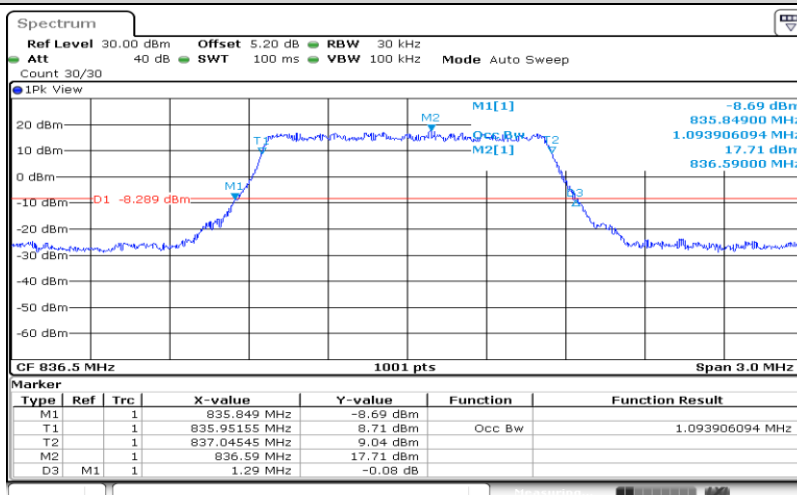
4.2. Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.094



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Band5-1.4MHz-QPSK-20525-6RB#0-1.094



Date: 2 APR 2020 06:33:07

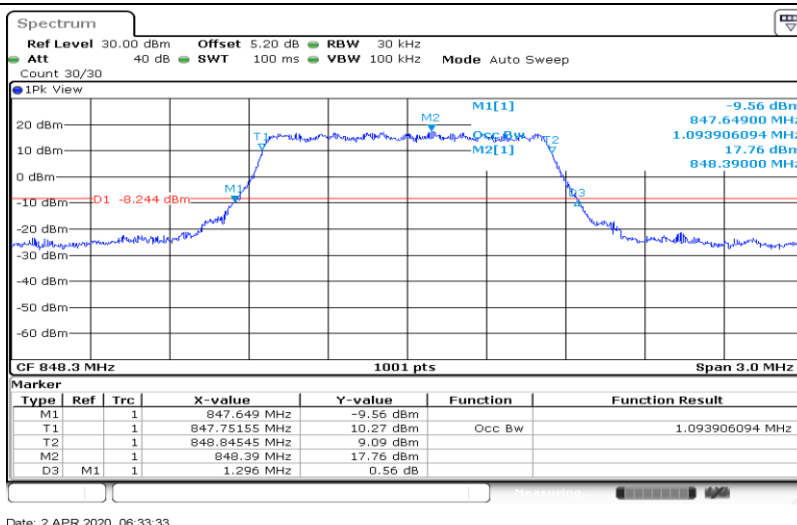
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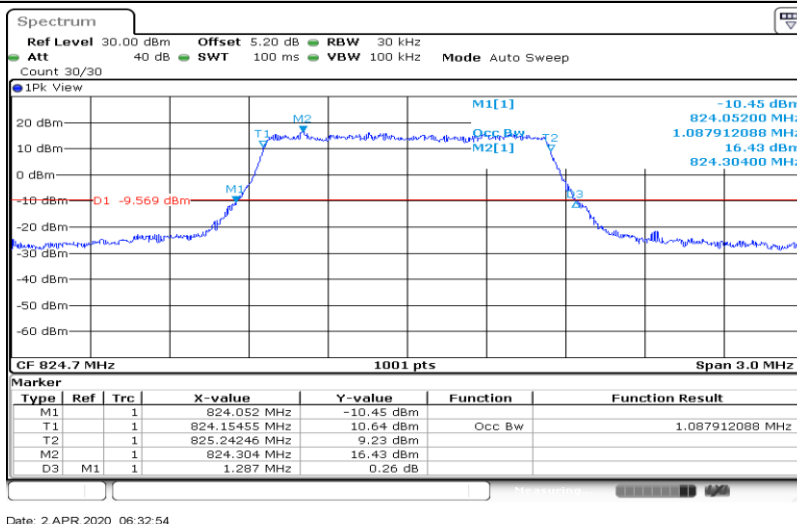
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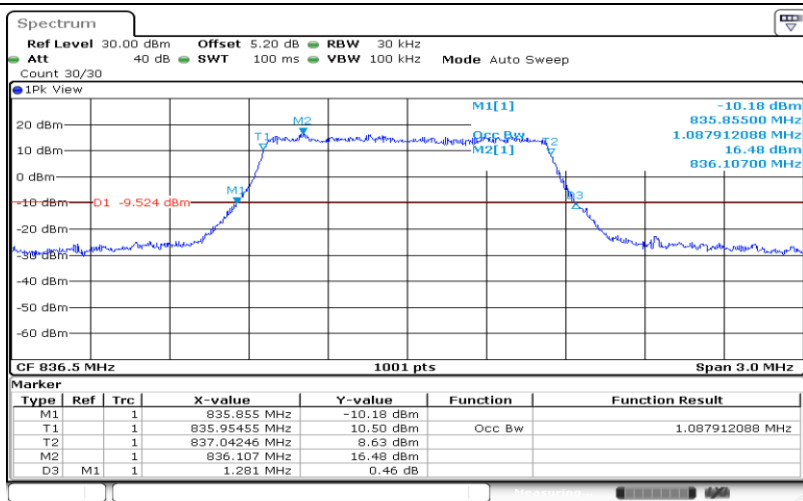


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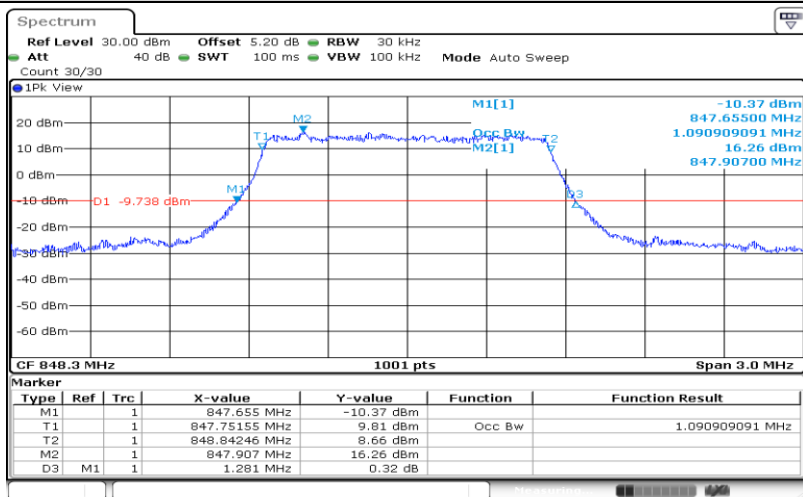
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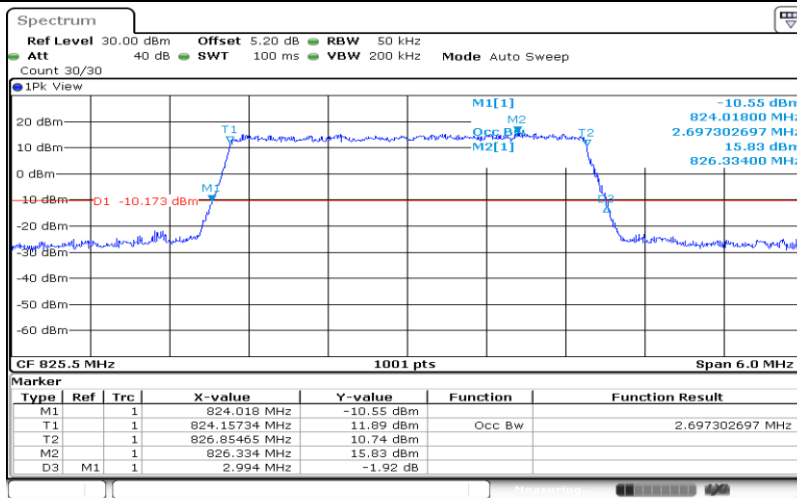
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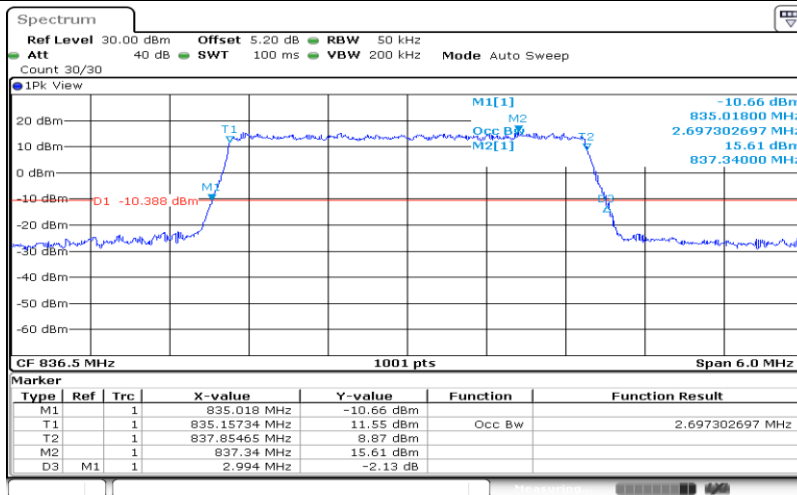
Band5-3MHz-QPSK-20415-15RB#0-2.697





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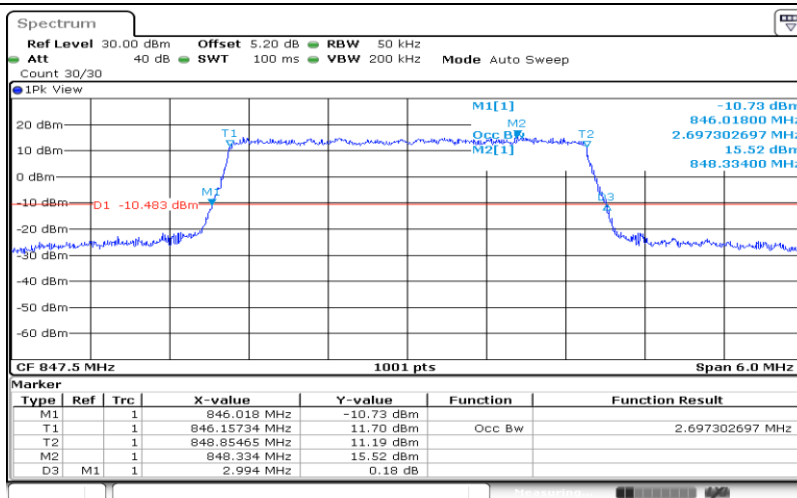
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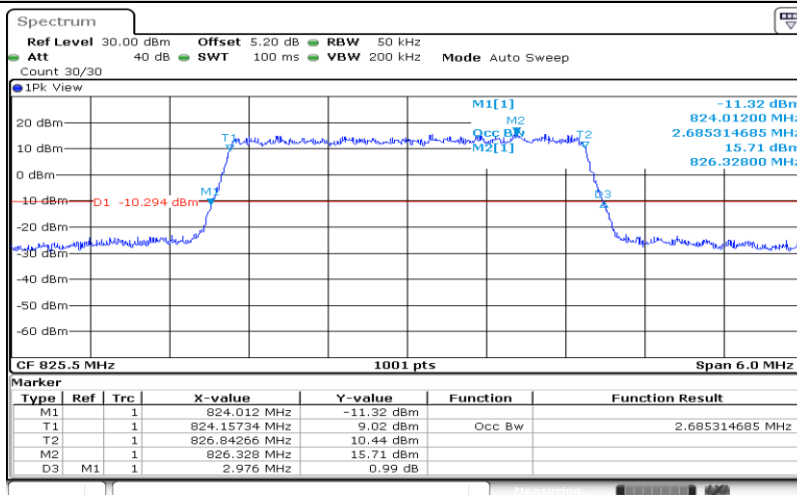
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Band5-3MHz-16QAM-20415-15RB#0-2.685



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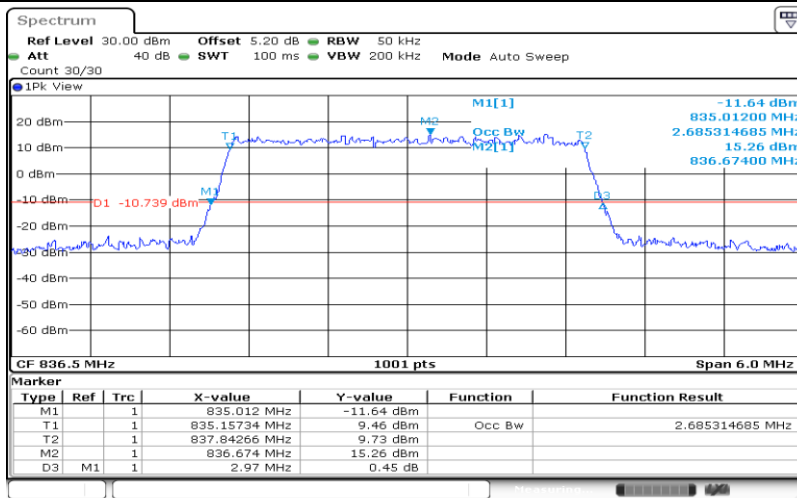
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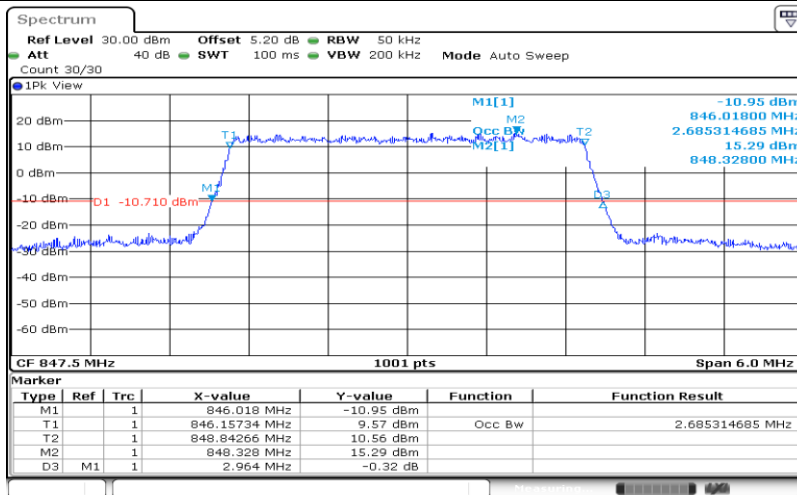
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Band5-3MHz-16QAM-20635-15RB#0-2.685



Date: 2 APR 2020 06:35:07

Band5-5MHz-QPSK-20425-25RB#0-4.466

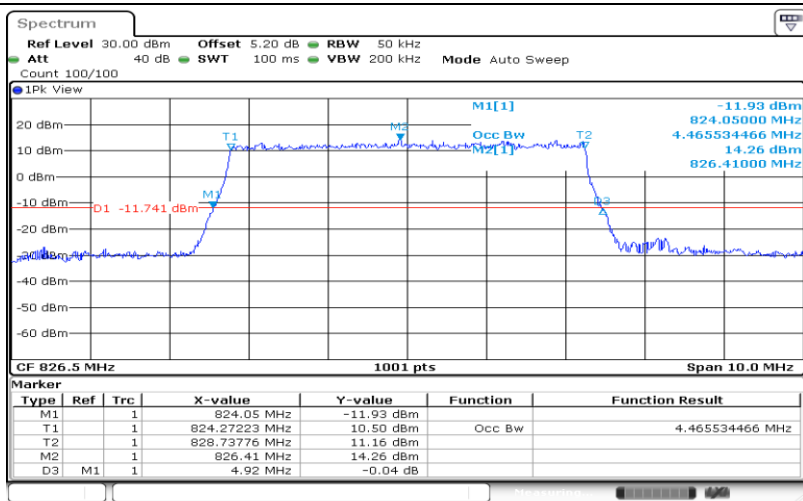


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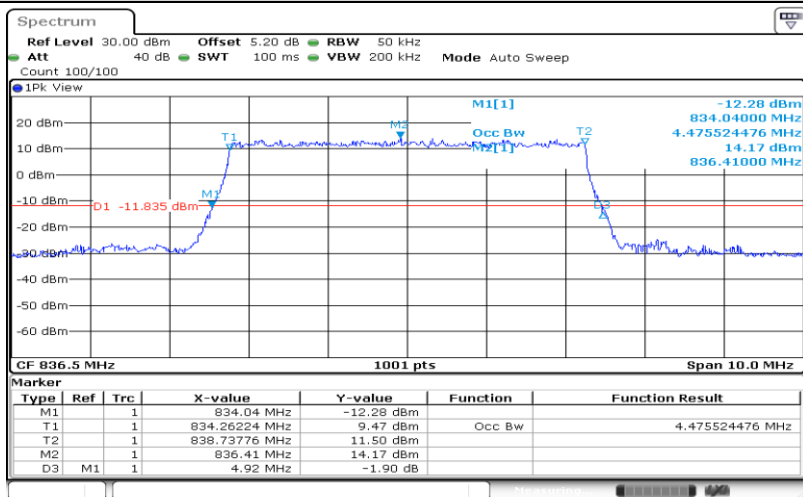
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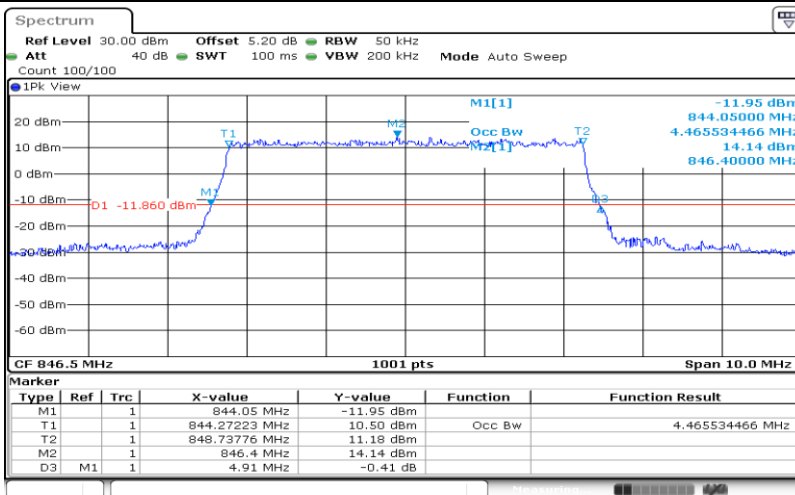
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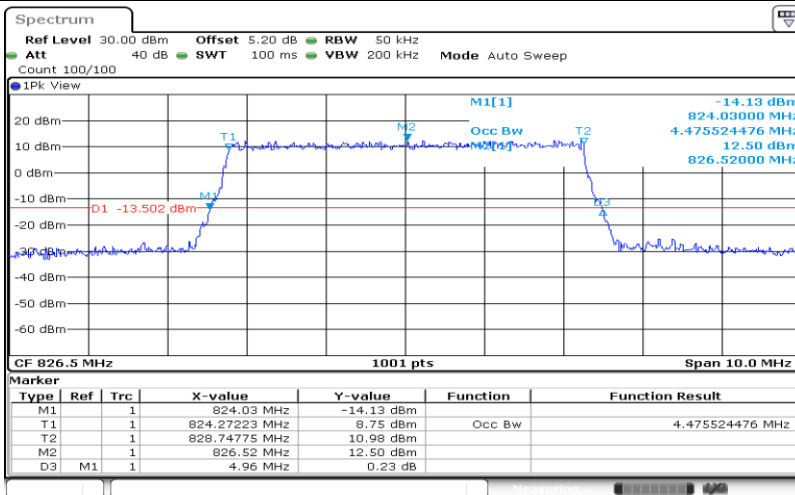
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Date: 2 APR 2020 06:36:51

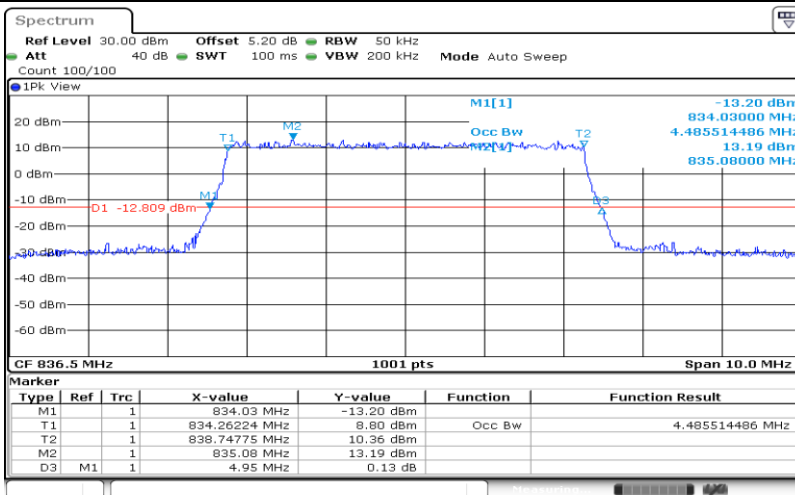
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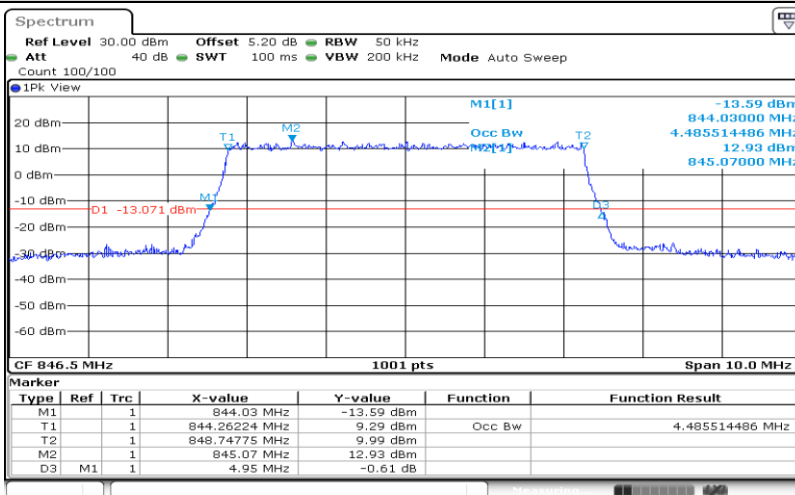
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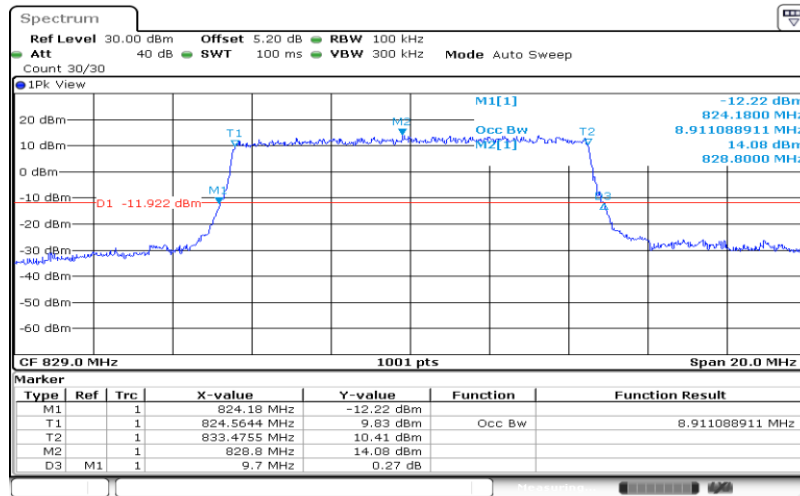
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Date: 2 APR 2020 06:37:11

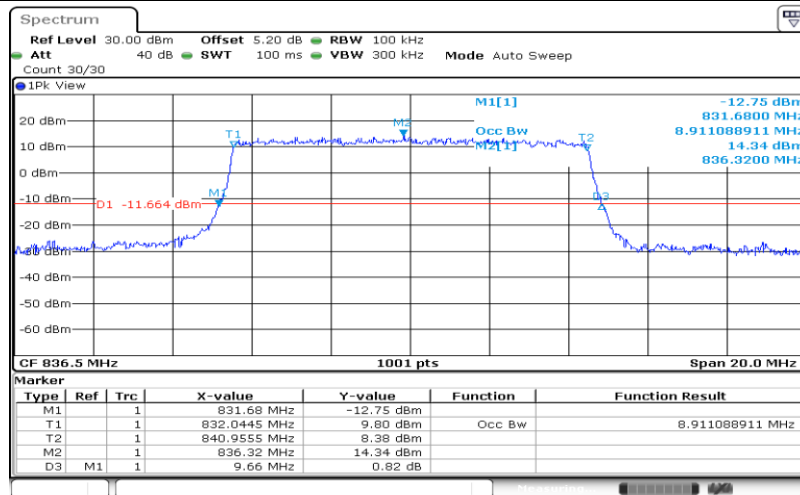
Band5-10MHz-QPSK-20450-50RB#0-8.911





Date: 2 APR 2020 06:37:28

Band5-10MHz-QPSK-20525-50RB#0-8.911



Date: 2 APR 2020 06:37:54

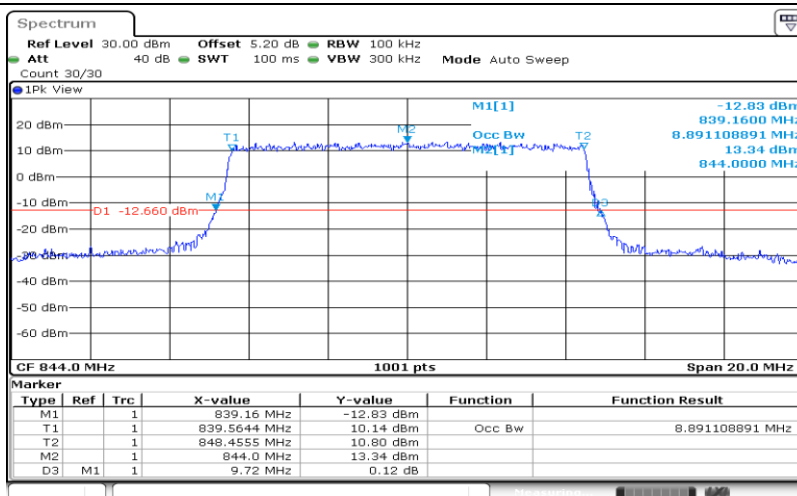
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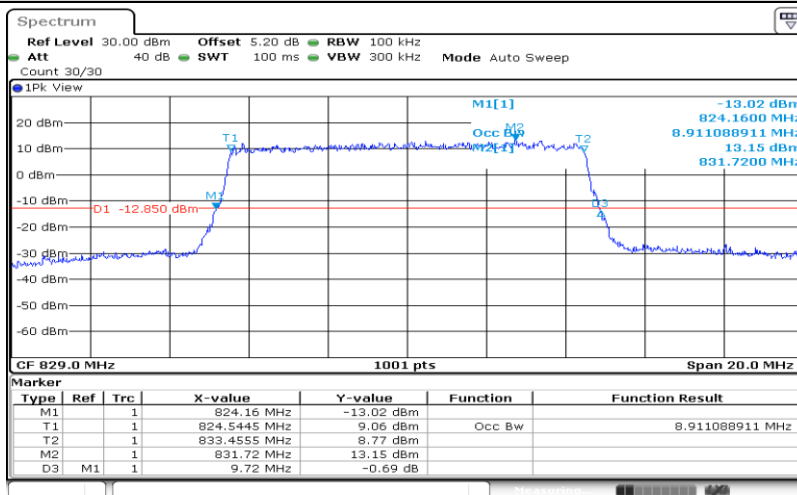
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Date: 2 APR 2020 06:38:20

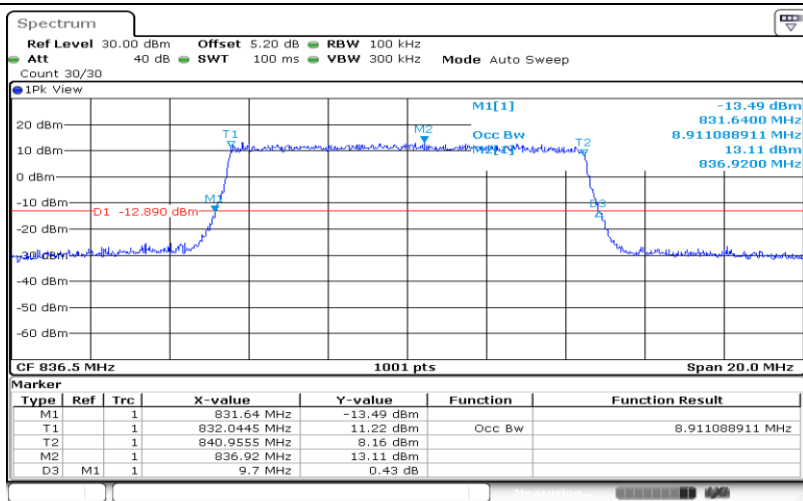
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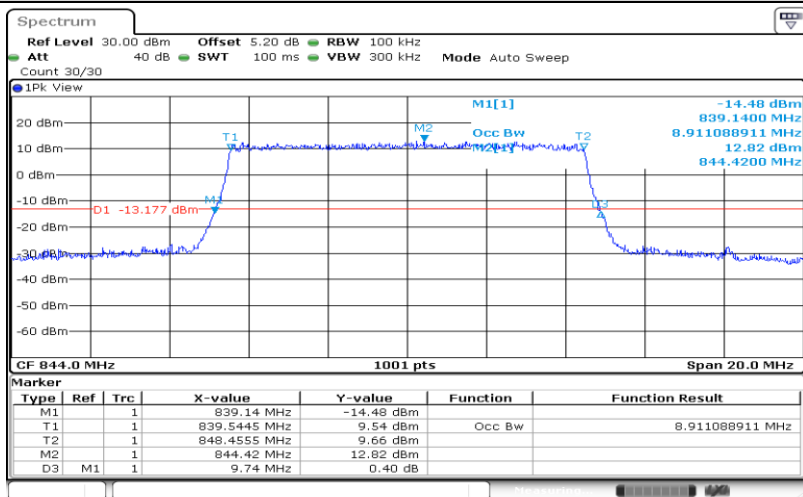
Band5-10MHz-16QAM-20525-50RB#0-8.911





Date: 2 APR 2020 06:38:07

Band5-10MHz-16QAM-20600-50RB#0-8.911



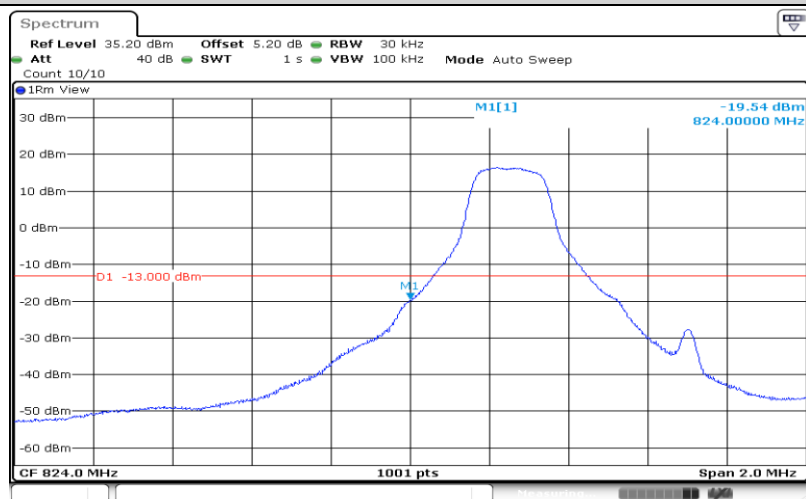
Date: 2 APR 2020 06:38:33



5. Band Edge Compliance

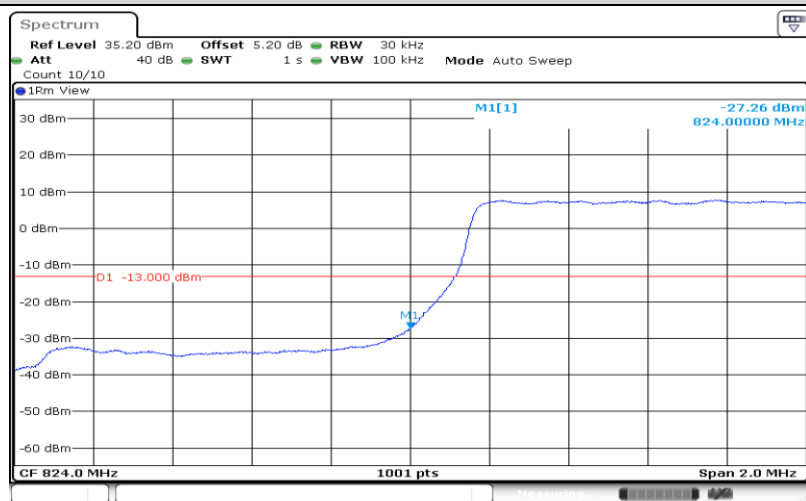
5.1. Test Plots

Band5-1.4MHz-QPSK-20407-1RB#0



Date: 2 APR 2020 06:38:58

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



Date: 2 APR 2020 06:39:37

Band5-1.4MHz-QPSK-20643-1RB#5



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



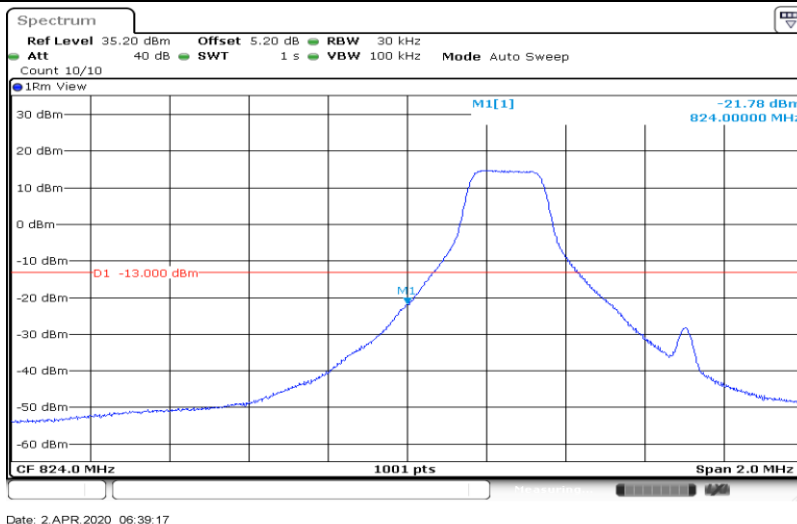
Band5-1.4MHz-16QAM-20407-1RB#0



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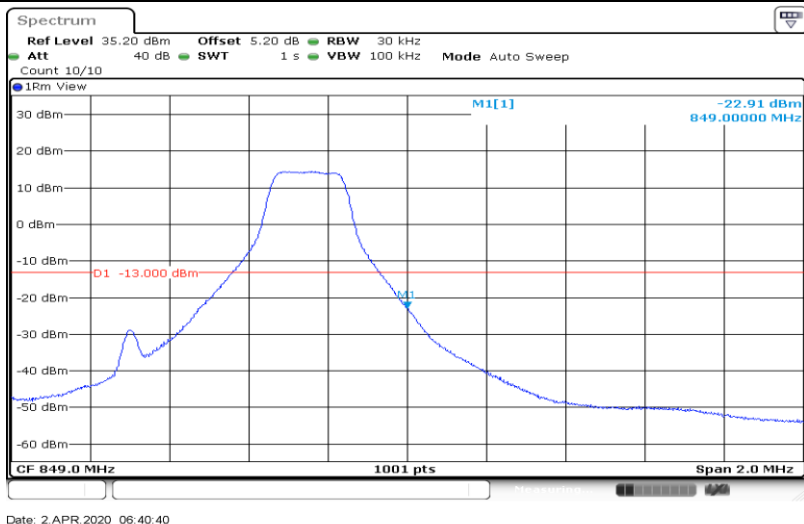


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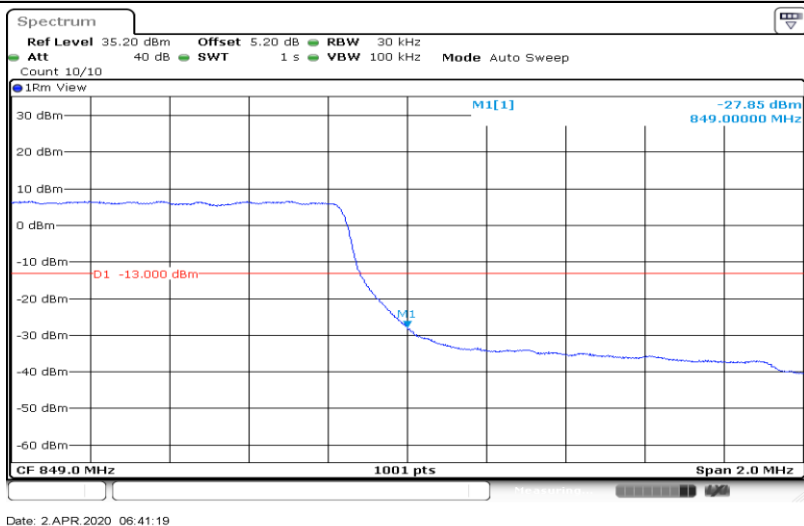


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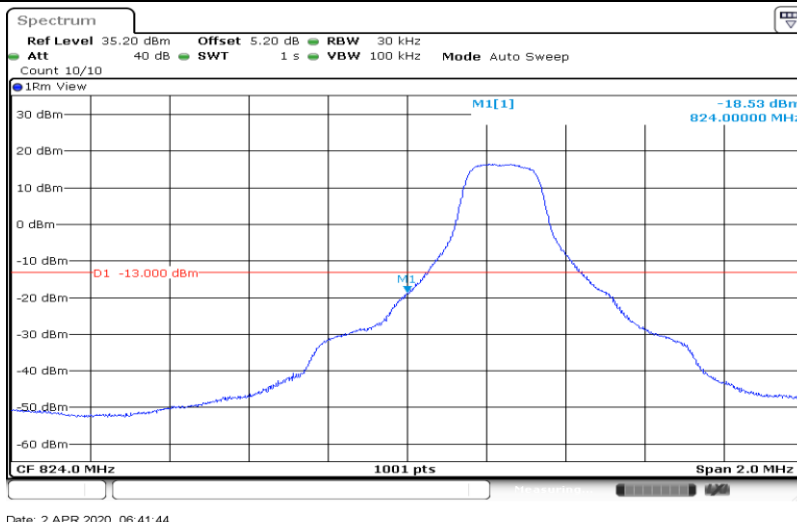


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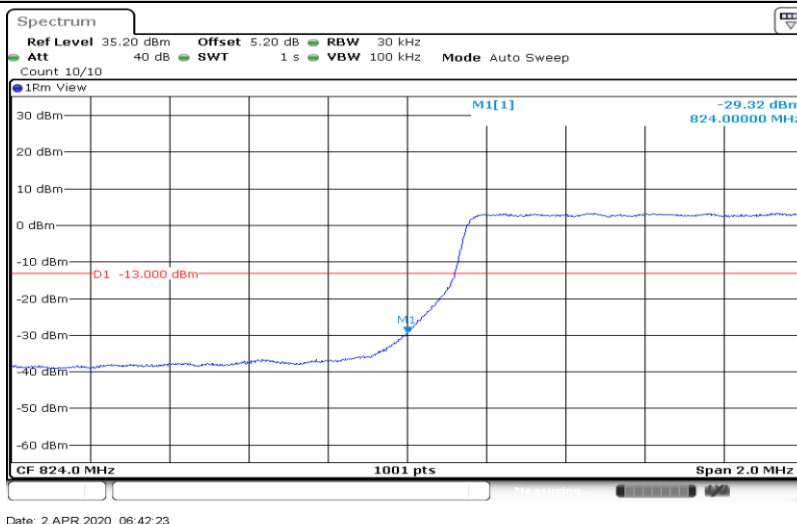


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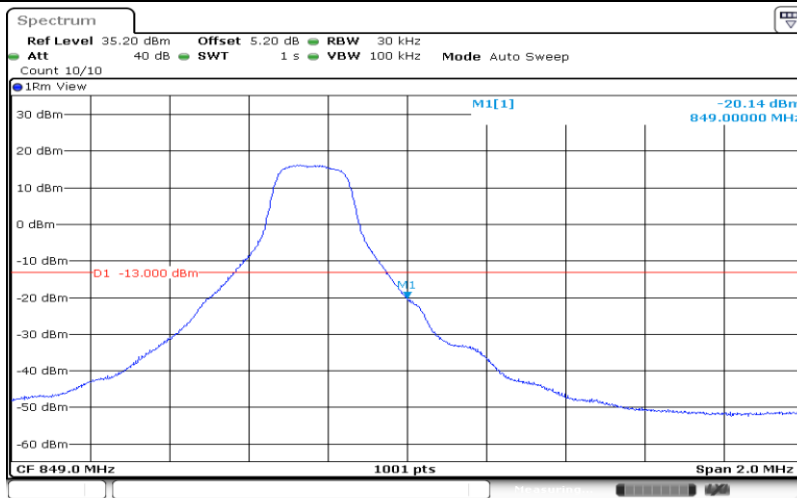


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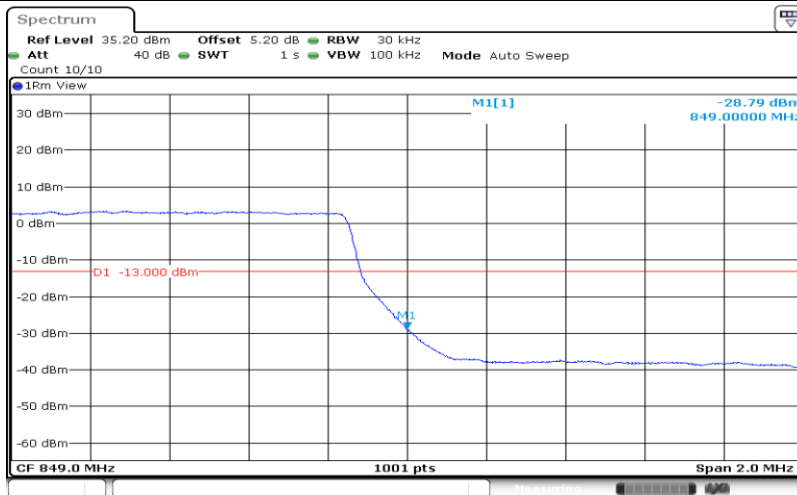


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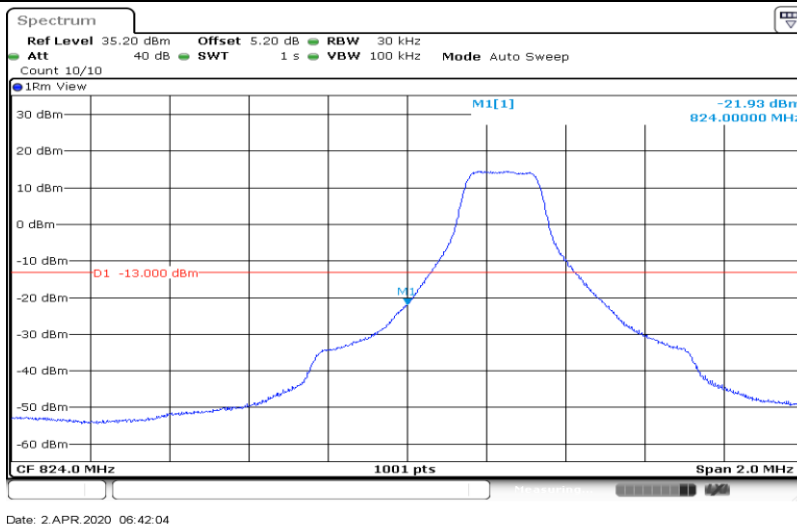


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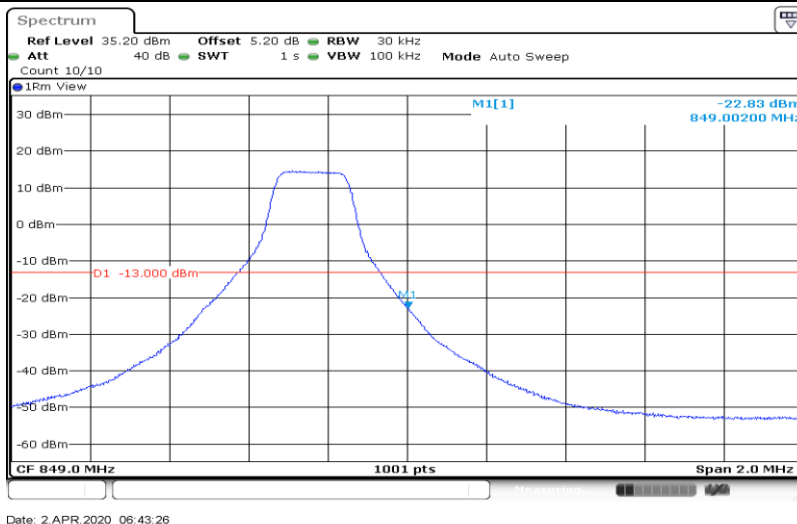


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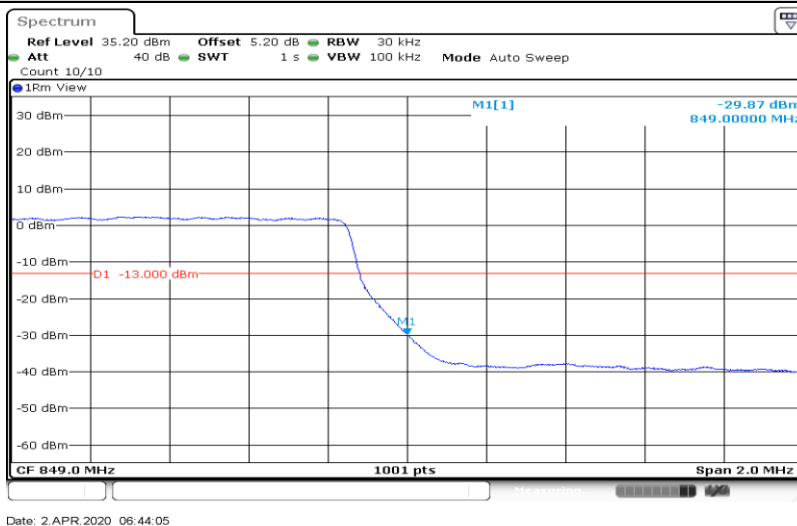


Band5-3MHz-16QAM-20635-1RB#14





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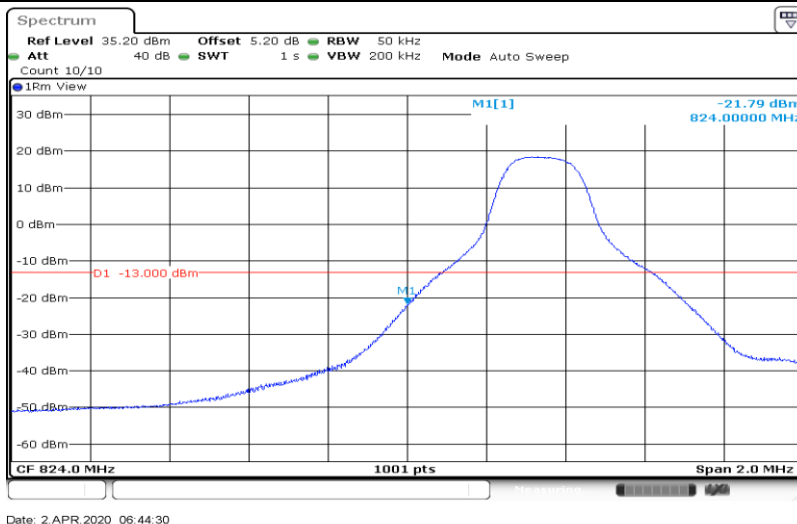
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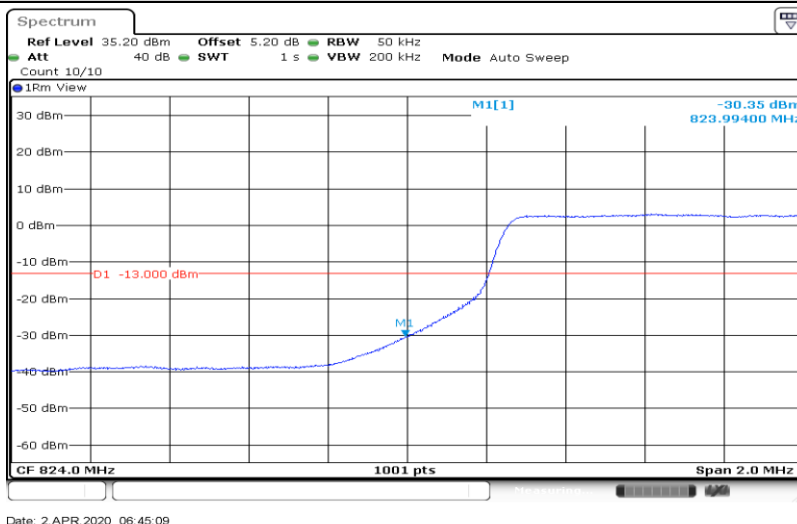
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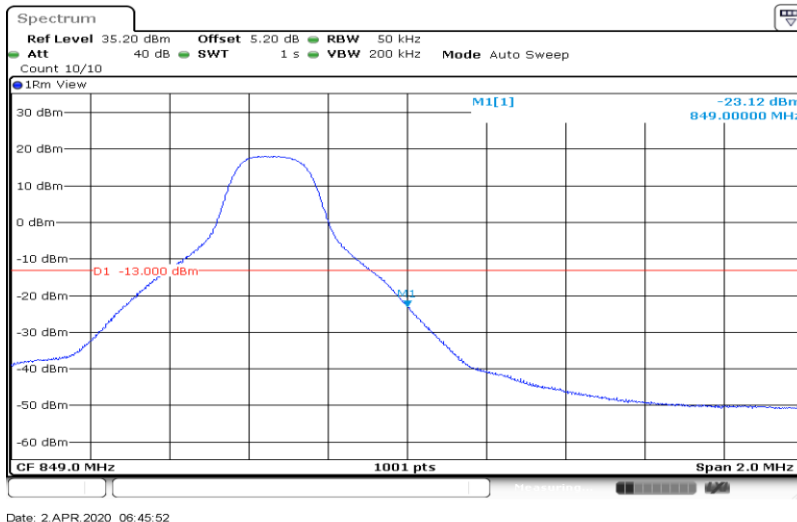


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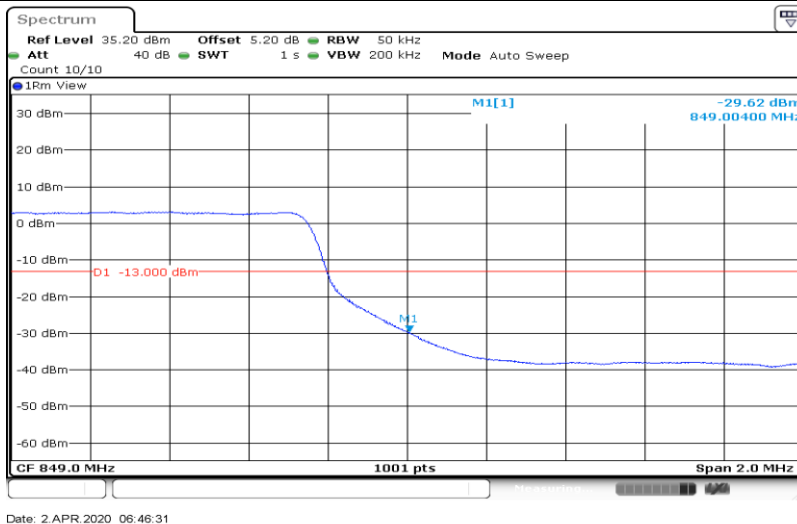


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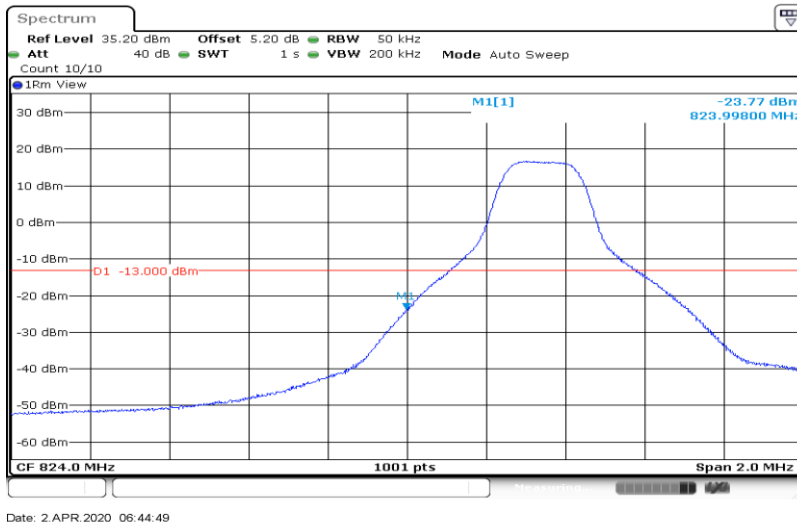


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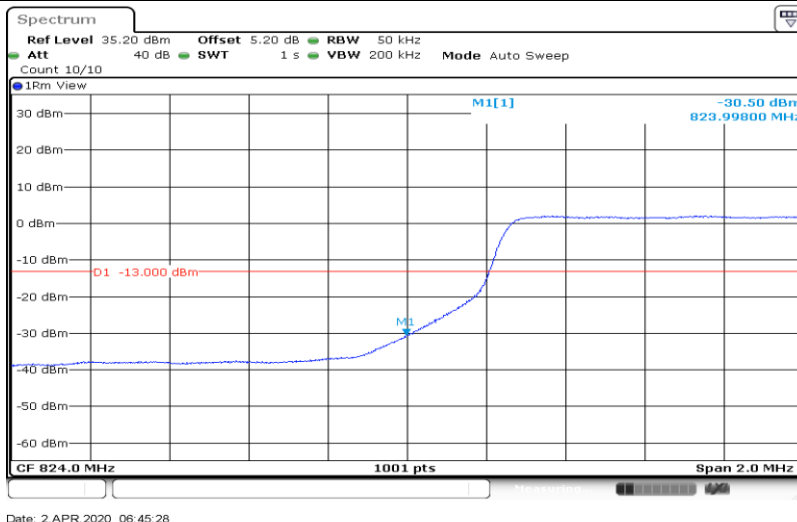


Band5-5MHz-16QAM-20425-1RB#0



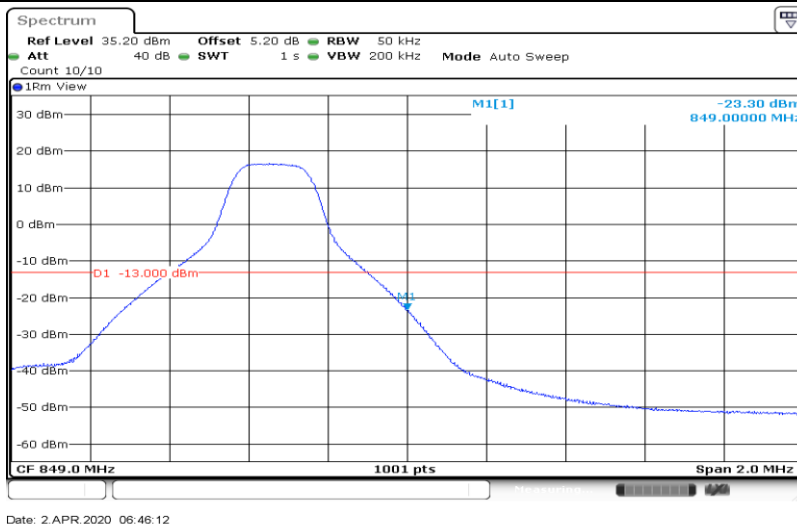


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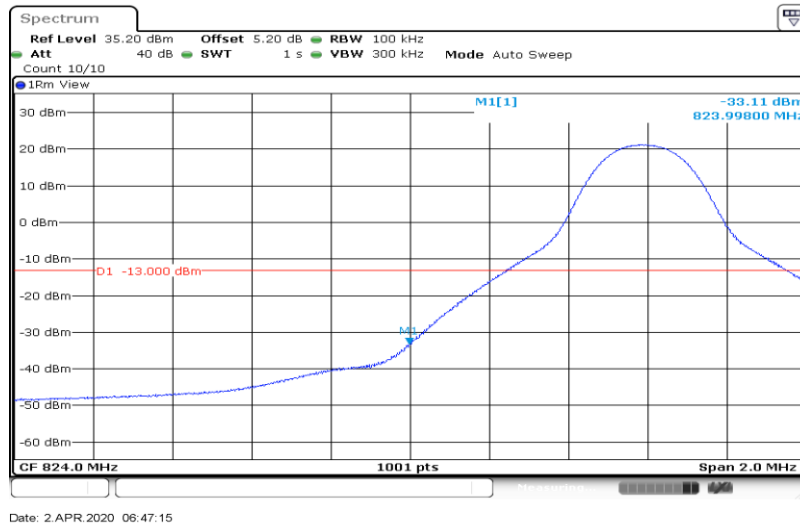


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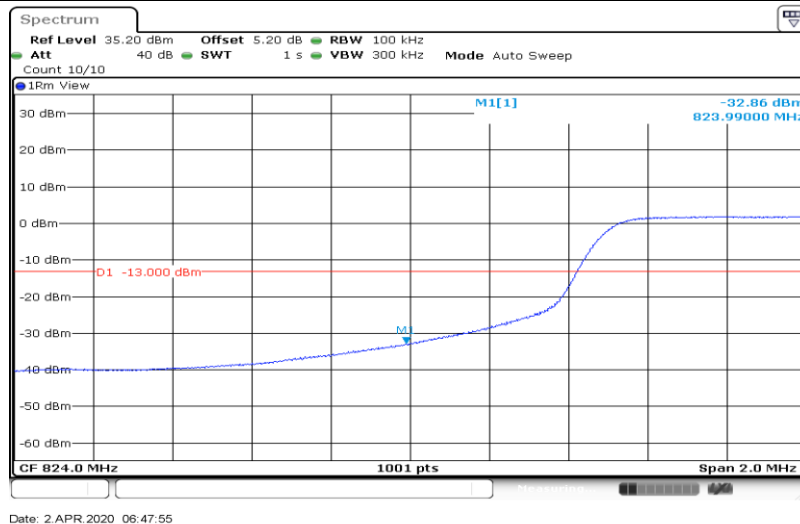


Band5-10MHz-QPSK-20450-1RB#0





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



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



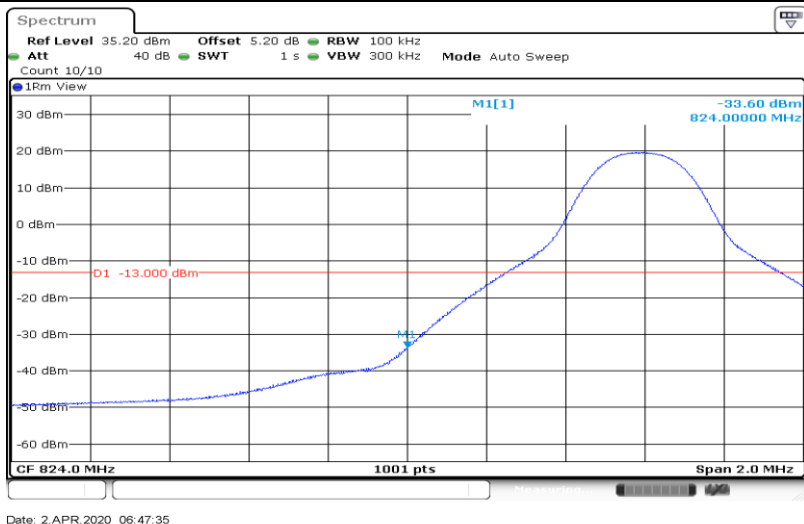


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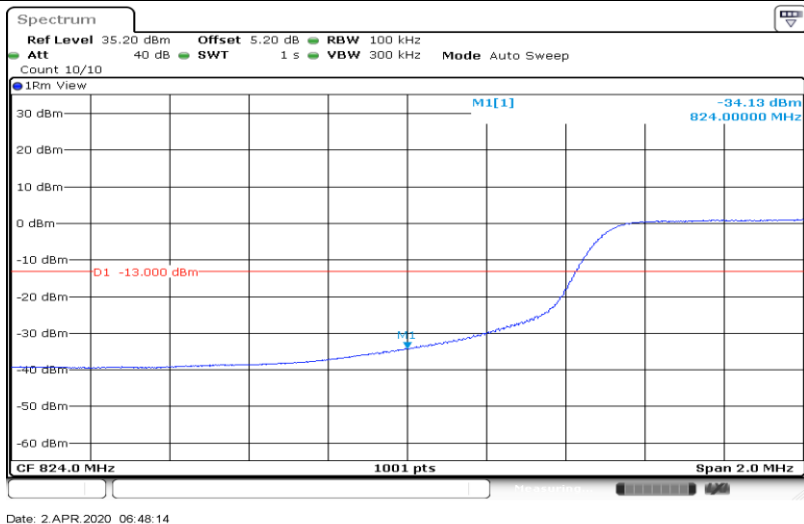


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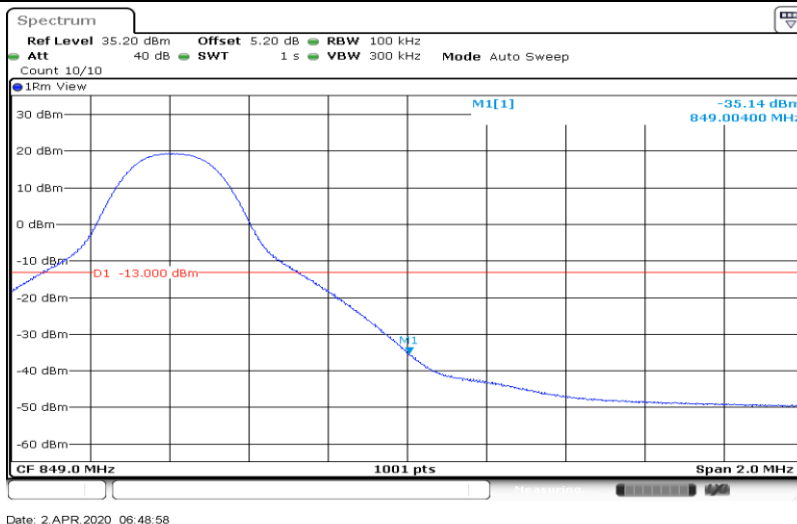


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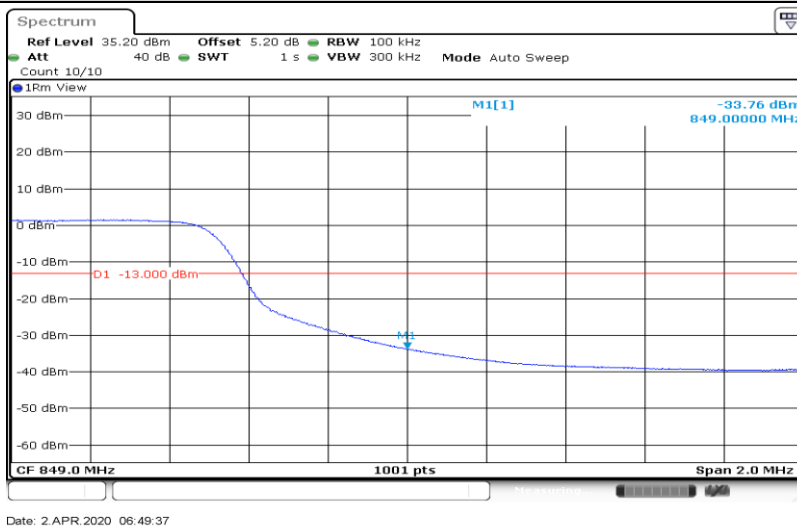


Band5-10MHz-16QAM-20600-1RB#49





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

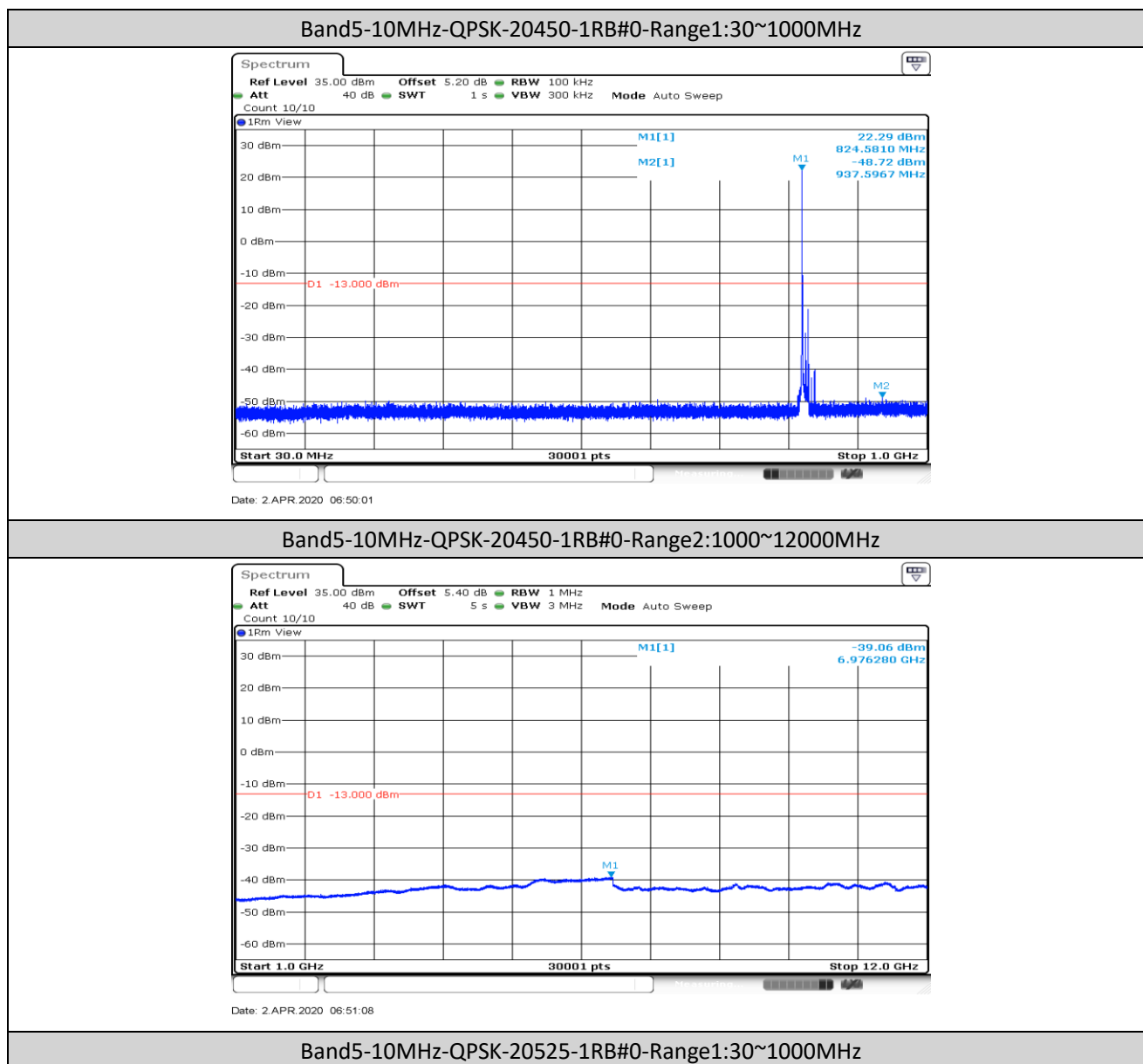


6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

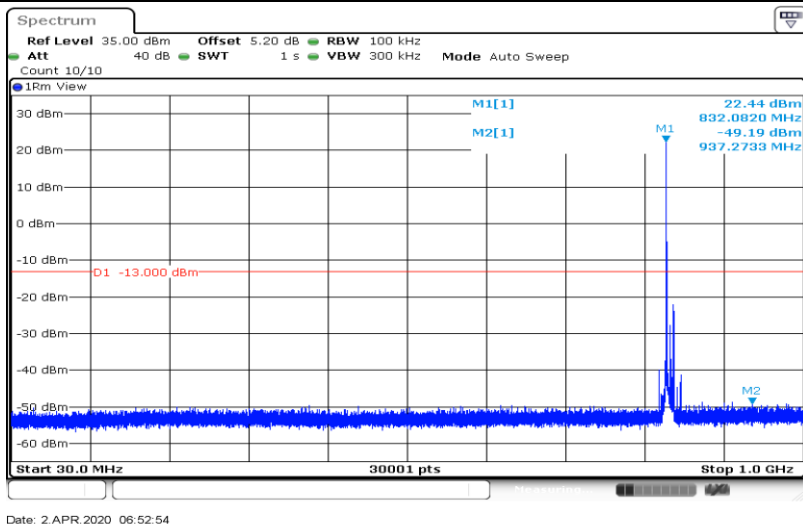
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

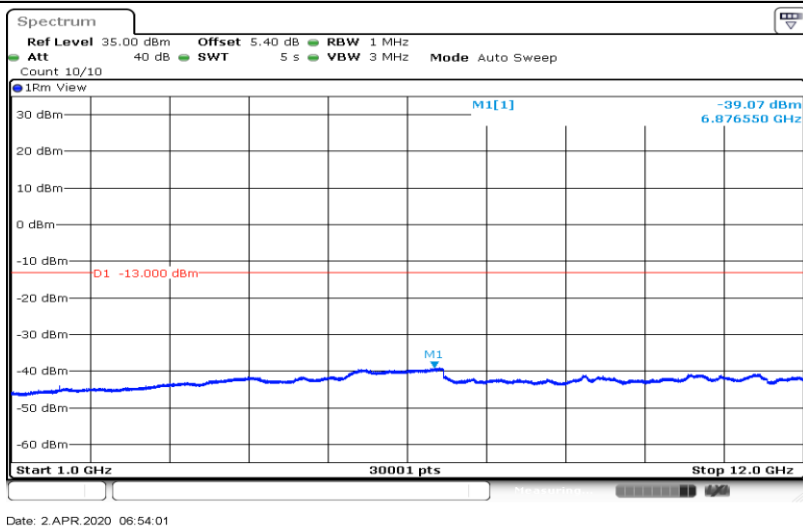


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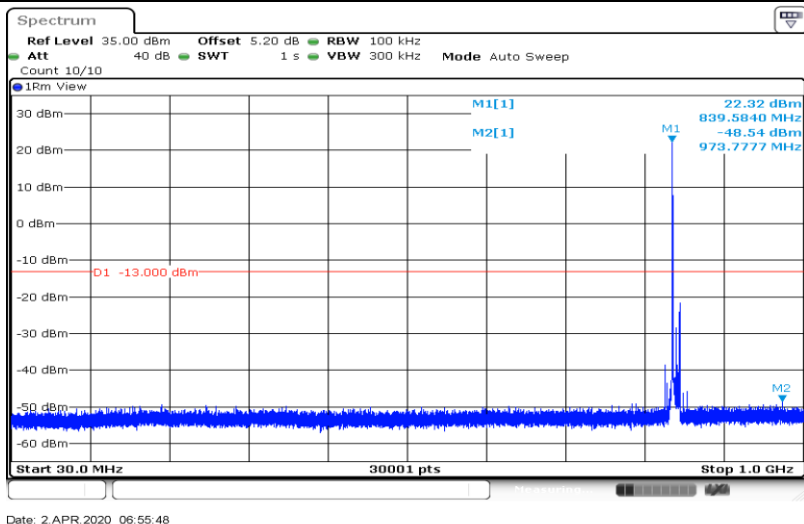


Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~12000MHz

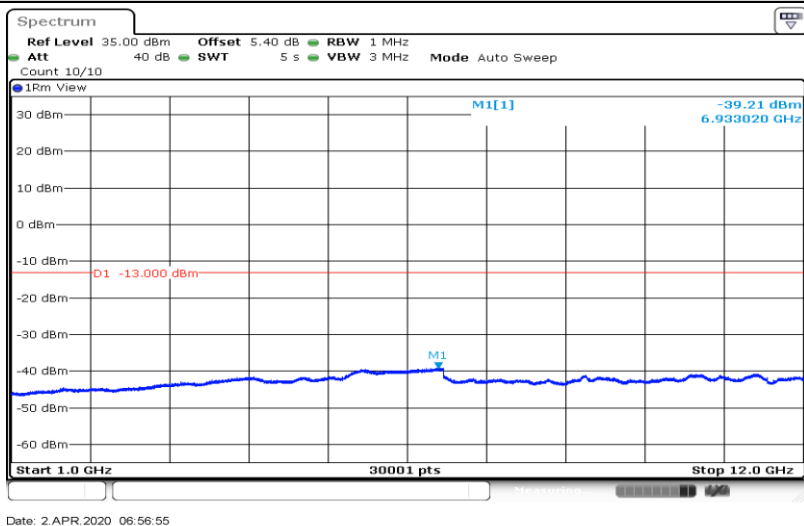


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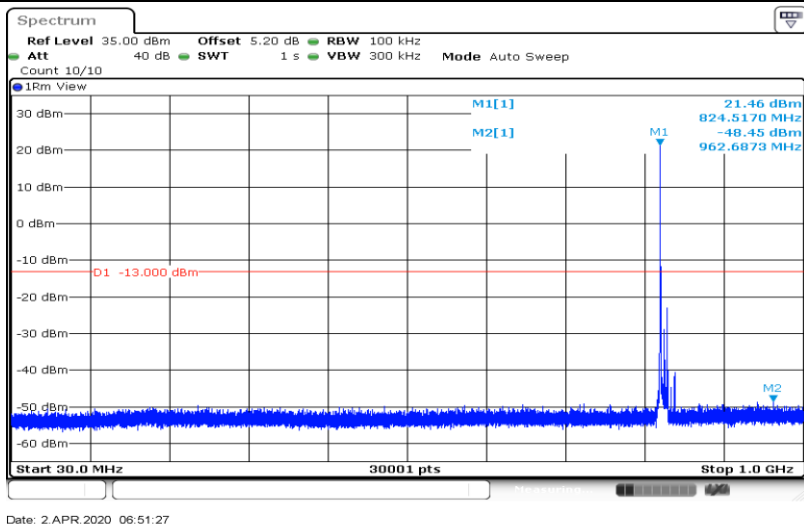


Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~12000MHz

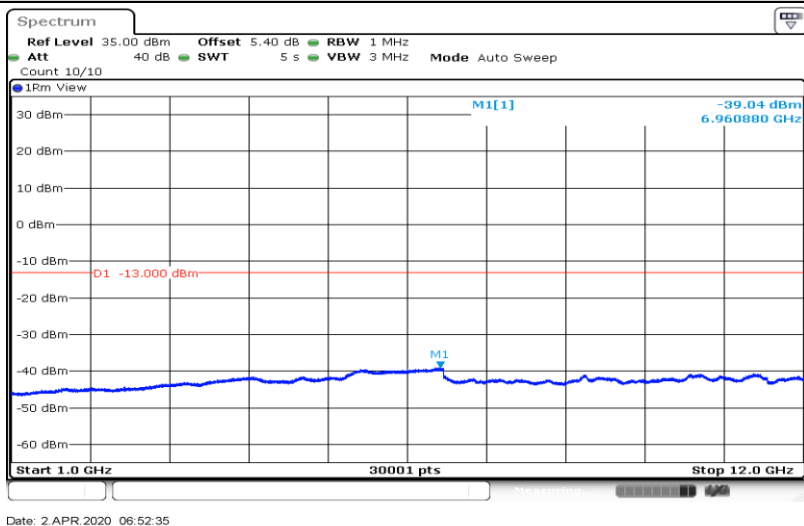


Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



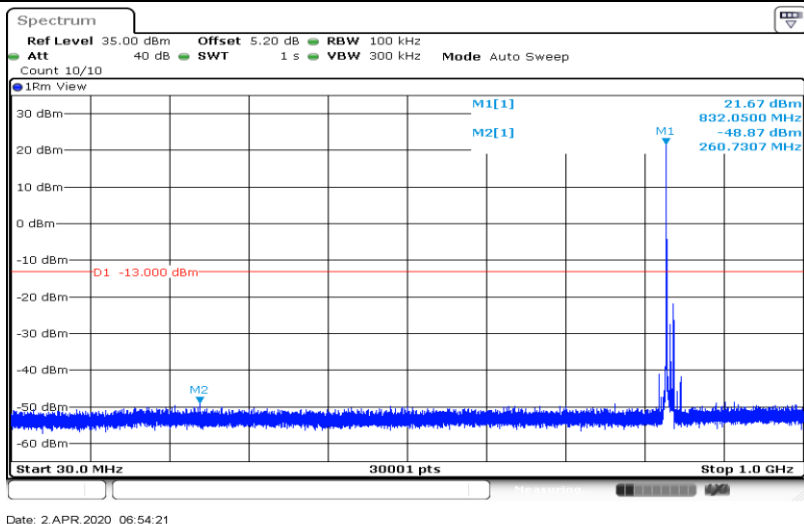


Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~12000MHz

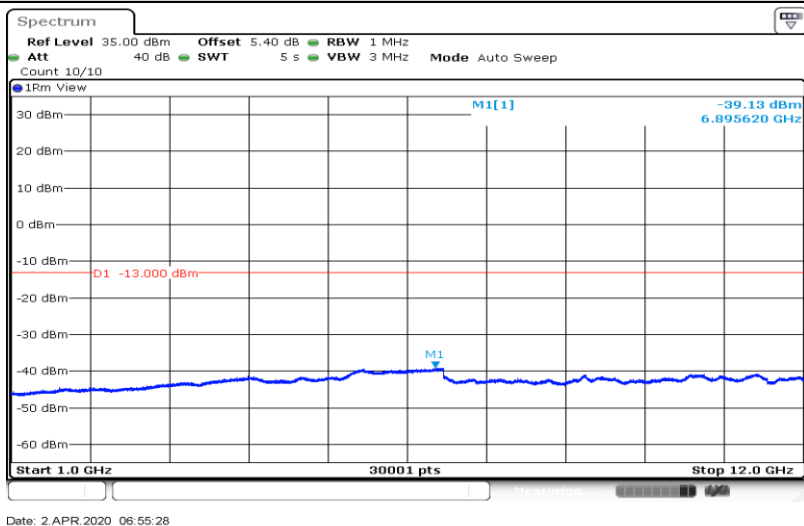


Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



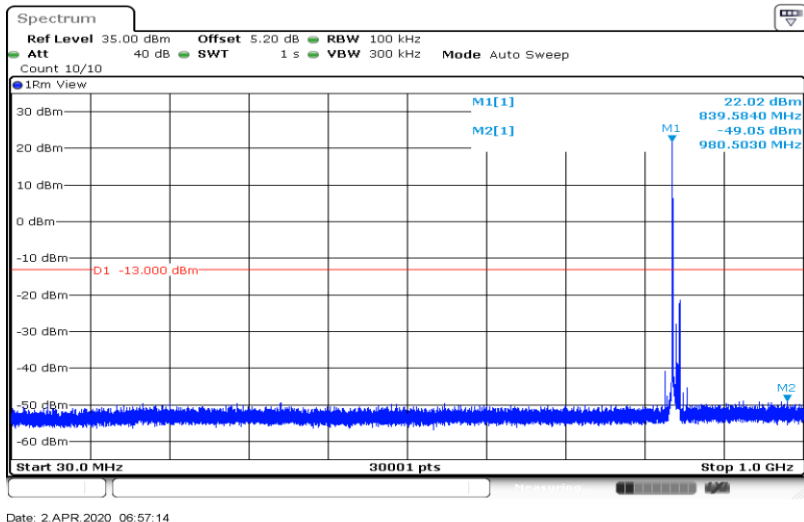


Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~12000MHz

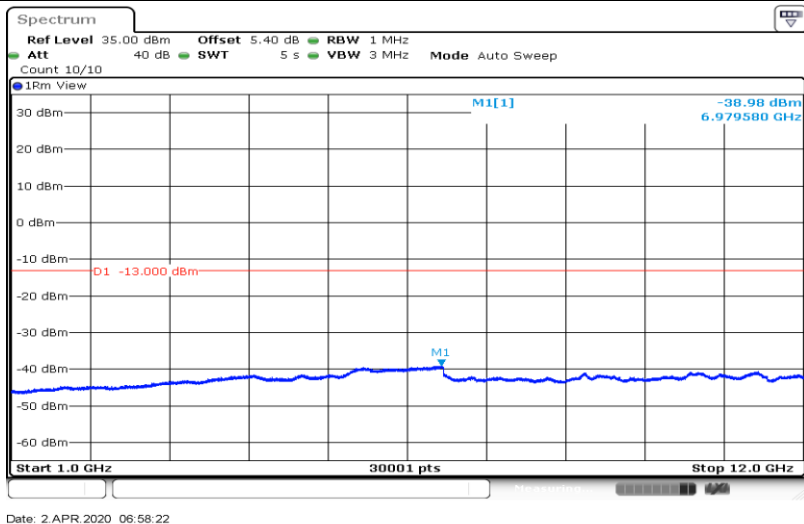


Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz





Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~12000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1

7.1.1.Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 112.3086 | -63.18 | -13.00 | 50.18 | Vertical |
| 498.3394 | -63.75 | -13.00 | 50.75 | Vertical |
| 1649.3299 | -53.40 | -13.00 | 40.40 | Vertical |
| 2469.8940 | -26.32 | -13.00 | 13.32 | Vertical |
| 4123.0374 | -59.84 | -13.00 | 46.84 | Vertical |
| 7462.9488 | -54.37 | -13.00 | 41.37 | Vertical |
| 42.2226 | -61.59 | -13.00 | 48.59 | Horizontal |
| 418.1649 | -65.20 | -13.00 | 52.20 | Horizontal |
| 1648.9298 | -50.65 | -13.00 | 37.65 | Horizontal |
| 2462.2925 | -23.94 | -13.00 | 10.94 | Horizontal |
| 3298.6100 | -55.19 | -13.00 | 42.19 | Horizontal |
| 8779.9927 | -53.09 | -13.00 | 40.09 | Horizontal |

7.1.2.Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 109.6895 | -62.20 | -13.00 | 49.20 | Vertical |
| 510.7075 | -63.29 | -13.00 | 50.29 | Vertical |
| 1664.1328 | -55.00 | -13.00 | 42.00 | Vertical |
| 2462.6925 | -22.19 | -13.00 | 9.19 | Vertical |
| 4992.4664 | -59.28 | -13.00 | 46.28 | Vertical |
| 8771.5924 | -52.91 | -13.00 | 39.91 | Vertical |
| 40.0885 | -63.51 | -13.00 | 50.51 | Horizontal |
| 409.4345 | -64.33 | -13.00 | 51.33 | Horizontal |
| 1664.1328 | -53.15 | -13.00 | 40.15 | Horizontal |
| 2466.2933 | -24.60 | -13.00 | 11.60 | Horizontal |
| 3328.4109 | -56.07 | -13.00 | 43.07 | Horizontal |
| 8786.5929 | -53.01 | -13.00 | 40.01 | Horizontal |



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7.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 106.8763 | -63.56 | -13.00 | 50.56 | Vertical |
| 431.3091 | -64.60 | -13.00 | 51.60 | Vertical |
| 1678.9358 | -55.73 | -13.00 | 42.73 | Vertical |
| 2463.0926 | -21.72 | -13.00 | 8.72 | Vertical |
| 4197.8399 | -58.61 | -13.00 | 45.61 | Vertical |
| 8715.7905 | -53.08 | -13.00 | 40.08 | Vertical |
| 41.2041 | -62.83 | -13.00 | 49.83 | Horizontal |
| 427.7684 | -65.67 | -13.00 | 52.67 | Horizontal |
| 1678.9358 | -50.76 | -13.00 | 37.76 | Horizontal |
| 2459.8920 | -18.79 | -13.00 | 5.79 | Horizontal |
| 3358.4119 | -53.12 | -13.00 | 40.12 | Horizontal |
| 8759.5920 | -53.19 | -13.00 | 40.19 | Horizontal |

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | VL | NT | -0.60 | -0.000724 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | VN | NT | -2.10 | -0.002533 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | VH | NT | -2.10 | -0.002533 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | VL | NT | -0.80 | -0.000956 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | VN | NT | -1.60 | -0.001913 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | VH | NT | -0.90 | -0.001076 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | VL | NT | 1.00 | 0.001185 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | VN | NT | -1.60 | -0.001896 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | VH | NT | -0.20 | -0.000237 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | VL | NT | 0.20 | 0.000241 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | VN | NT | 1.20 | 0.001448 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | VH | NT | 0.30 | 0.000362 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | VL | NT | 0.60 | 0.000717 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | VN | NT | 0.50 | 0.000598 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | VH | NT | -0.20 | -0.000239 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | VL | NT | -0.60 | -0.000711 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | VN | NT | -0.60 | -0.000711 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | VH | NT | 0.20 | 0.000237 | ±2.5 | PASS |

8.2. Frequency Vs Temperature

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | -30 | -1.60 | -0.001930 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | -20 | 0.10 | 0.000121 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 0 | -0.50 | -0.000603 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 10 | -1.10 | -0.001327 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 20 | -0.90 | -0.001086 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 30 | -1.70 | -0.002051 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 40 | -0.30 | -0.000362 | ±2.5 | PASS |



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| | | | | | | | | | | |
|-------|-------|-------|-------|--------|----|-----|-------|-----------|------|------|
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 50 | -0.30 | -0.000362 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | -30 | 0.00 | 0.000000 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | -20 | -1.10 | -0.001315 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 0 | -0.70 | -0.000837 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 10 | -0.70 | -0.000837 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 20 | -1.40 | -0.001674 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 30 | -1.00 | -0.001195 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 40 | -1.80 | -0.002152 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 50 | -0.60 | -0.000717 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | -30 | -1.10 | -0.001303 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | -20 | -0.90 | -0.001066 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 0 | -1.30 | -0.001540 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 10 | -0.90 | -0.001066 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 20 | -2.10 | -0.002488 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 30 | -1.30 | -0.001540 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 40 | -0.50 | -0.000592 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 50 | -0.50 | -0.000592 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | -30 | 0.10 | 0.000121 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | -20 | -0.90 | -0.001086 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 0 | -0.70 | -0.000844 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 10 | -0.90 | -0.001086 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 20 | -0.20 | -0.000241 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 30 | -1.00 | -0.001206 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 40 | -1.20 | -0.001448 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 50 | 0.00 | 0.000000 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | -30 | -0.20 | -0.000239 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | -20 | -1.10 | -0.001315 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 0 | -0.30 | -0.000359 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 10 | 0.20 | 0.000239 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 20 | -0.10 | -0.000120 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 30 | -0.10 | -0.000120 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 40 | -0.20 | -0.000239 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 50 | 0.10 | 0.000120 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | -30 | -0.20 | -0.000237 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | -20 | -1.00 | -0.001185 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 0 | -2.10 | -0.002488 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 10 | -0.50 | -0.000592 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 20 | -0.40 | -0.000474 | ±2.5 | PASS |



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| | | | | | | | | | | |
|-------|-------|-------|-------|--------|----|----|-------|-----------|------|------|
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 30 | -1.10 | -0.001303 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 40 | 1.10 | 0.001303 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 50 | -0.70 | -0.000829 | ±2.5 | PASS |



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