

Appendix B.31

NR Band n12



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|--|-----------|---------------------|--|
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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Power (dBm) | ERP (dBm) | Limit (dBm) | Verdict |
|------|-----|-----------|-------------|---------|-----------------|-------------|-----------|-------------|---------|
| N12 | 15 | 5 | DFT-PI2BPSK | L | Inner_1RB_Left | 24.4 | 22.05 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | L | Inner_1RB_Right | 24.4 | 22.05 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | L | Outer_Full | 23.85 | 21.5 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-QPSK | L | Inner_1RB_Left | 24.2 | 21.85 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-QPSK | L | Inner_1RB_Right | 24.37 | 22.02 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-QPSK | L | Outer_Full | 23.33 | 20.98 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-16QAM | L | Inner_1RB_Left | 23.2 | 20.85 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-16QAM | L | Inner_1RB_Right | 23.35 | 21 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-16QAM | L | Outer_Full | 22.41 | 20.06 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-64QAM | L | Inner_1RB_Left | 22.03 | 19.68 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-64QAM | L | Inner_1RB_Right | 22.17 | 19.82 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-64QAM | L | Outer_Full | 21.86 | 19.51 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-256QAM | L | Inner_1RB_Left | 19.3 | 16.95 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-256QAM | L | Inner_1RB_Right | 19.41 | 17.06 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-256QAM | L | Outer_Full | 19.78 | 17.43 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | M | Inner_1RB_Left | 24.42 | 22.07 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | M | Inner_1RB_Right | 24.55 | 22.2 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | M | Outer_Full | 24.02 | 21.67 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-QPSK | M | Inner_1RB_Left | 24.41 | 22.06 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-QPSK | M | Inner_1RB_Right | 24.41 | 22.06 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-QPSK | M | Outer_Full | 23.55 | 21.2 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-16QAM | M | Inner_1RB_Left | 23.41 | 21.06 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-16QAM | M | Inner_1RB_Right | 23.53 | 21.18 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-16QAM | M | Outer_Full | 22.54 | 20.19 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-64QAM | M | Inner_1RB_Left | 22.17 | 19.82 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-64QAM | M | Inner_1RB_Right | 22.21 | 19.86 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-64QAM | M | Outer_Full | 22.03 | 19.68 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-256QAM | M | Inner_1RB_Left | 19.46 | 17.11 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-256QAM | M | Inner_1RB_Right | 19.44 | 17.09 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-256QAM | M | Outer_Full | 20 | 17.65 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | H | Inner_1RB_Left | 24.48 | 22.13 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | H | Inner_1RB_Right | 24.41 | 22.06 | 34.77 | PASS |



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| | | | | | | | | | |
|-----|----|----|-------------|---|-----------------|-------|-------|-------|------|
| N12 | 15 | 5 | DFT-PI2BPSK | H | Outer_Full | 23.89 | 21.54 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-QPSK | H | Inner_1RB_Left | 24.37 | 22.02 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-QPSK | H | Inner_1RB_Right | 24.36 | 22.01 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-QPSK | H | Outer_Full | 23.47 | 21.12 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-16QAM | H | Inner_1RB_Left | 23.46 | 21.11 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-16QAM | H | Inner_1RB_Right | 23.35 | 21 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-16QAM | H | Outer_Full | 22.48 | 20.13 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-64QAM | H | Inner_1RB_Left | 22.19 | 19.84 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-64QAM | H | Inner_1RB_Right | 22.06 | 19.71 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-64QAM | H | Outer_Full | 21.94 | 19.59 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-256QAM | H | Inner_1RB_Left | 19.53 | 17.18 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-256QAM | H | Inner_1RB_Right | 19.33 | 16.98 | 34.77 | PASS |
| N12 | 15 | 5 | DFT-256QAM | H | Outer_Full | 19.86 | 17.51 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | L | Inner_1RB_Left | 24.33 | 21.98 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | L | Inner_1RB_Right | 24.51 | 22.16 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | L | Outer_Full | 23.98 | 21.63 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK | L | Inner_1RB_Left | 24.28 | 21.93 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK | L | Inner_1RB_Right | 24.43 | 22.08 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK | L | Outer_Full | 23.45 | 21.1 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM | L | Inner_1RB_Left | 23.29 | 20.94 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM | L | Inner_1RB_Right | 23.53 | 21.18 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM | L | Outer_Full | 22.43 | 20.08 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM | L | Inner_1RB_Left | 22.04 | 19.69 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM | L | Inner_1RB_Right | 22.17 | 19.82 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM | L | Outer_Full | 21.98 | 19.63 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM | L | Inner_1RB_Left | 19.23 | 16.88 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM | L | Inner_1RB_Right | 19.49 | 17.14 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM | L | Outer_Full | 19.87 | 17.52 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | M | Inner_1RB_Left | 24.48 | 22.13 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | M | Inner_1RB_Right | 24.47 | 22.12 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | 23.99 | 21.64 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK | M | Inner_1RB_Left | 24.33 | 21.98 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK | M | Inner_1RB_Right | 24.42 | 22.07 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK | M | Outer_Full | 23.53 | 21.18 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM | M | Inner_1RB_Left | 23.41 | 21.06 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM | M | Inner_1RB_Right | 23.54 | 21.19 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM | M | Outer_Full | 22.5 | 20.15 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM | M | Inner_1RB_Left | 22.2 | 19.85 | 34.77 | PASS |



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| | | | | | | | | | |
|-----|----|----|-------------|---|-----------------|-------|-------|-------|------|
| N12 | 15 | 10 | DFT-64QAM | M | Inner_1RB_Right | 22.23 | 19.88 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM | M | Outer_Full | 22.05 | 19.7 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM | M | Inner_1RB_Left | 19.4 | 17.05 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM | M | Inner_1RB_Right | 19.5 | 17.15 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM | M | Outer_Full | 19.98 | 17.63 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | H | Inner_1RB_Left | 24.59 | 22.24 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | H | Inner_1RB_Right | 24.45 | 22.1 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | H | Outer_Full | 24.02 | 21.67 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK | H | Inner_1RB_Left | 24.45 | 22.1 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK | H | Inner_1RB_Right | 24.29 | 21.94 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-QPSK | H | Outer_Full | 23.49 | 21.14 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM | H | Inner_1RB_Left | 23.5 | 21.15 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM | H | Inner_1RB_Right | 23.24 | 20.89 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-16QAM | H | Outer_Full | 22.46 | 20.11 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM | H | Inner_1RB_Left | 22.26 | 19.91 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM | H | Inner_1RB_Right | 22.12 | 19.77 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-64QAM | H | Outer_Full | 22.09 | 19.74 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM | H | Inner_1RB_Left | 19.4 | 17.05 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM | H | Inner_1RB_Right | 19.51 | 17.16 | 34.77 | PASS |
| N12 | 15 | 10 | DFT-256QAM | H | Outer_Full | 19.95 | 17.6 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | L | Inner_1RB_Left | 24.52 | 22.17 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | L | Inner_1RB_Right | 24.51 | 22.16 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | L | Outer_Full | 24.14 | 21.79 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK | L | Inner_1RB_Left | 24.27 | 21.92 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK | L | Inner_1RB_Right | 24.41 | 22.06 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK | L | Outer_Full | 23.61 | 21.26 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM | L | Inner_1RB_Left | 23.28 | 20.93 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM | L | Inner_1RB_Right | 23.51 | 21.16 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM | L | Outer_Full | 22.61 | 20.26 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM | L | Inner_1RB_Left | 22.03 | 19.68 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM | L | Inner_1RB_Right | 22.17 | 19.82 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM | L | Outer_Full | 22.17 | 19.82 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM | L | Inner_1RB_Left | 19.53 | 17.18 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM | L | Inner_1RB_Right | 19.52 | 17.17 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM | L | Outer_Full | 20.06 | 17.71 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Inner_1RB_Left | 24.46 | 22.11 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Inner_1RB_Right | 24.49 | 22.14 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | 24.12 | 21.77 | 34.77 | PASS |



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|-----|----|----|-------------|---|-----------------|-------|-------|-------|------|
| N12 | 15 | 15 | DFT-QPSK | M | Inner_1RB_Left | 24.33 | 21.98 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK | M | Inner_1RB_Right | 24.37 | 22.02 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK | M | Outer_Full | 23.59 | 21.24 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM | M | Inner_1RB_Left | 23.47 | 21.12 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM | M | Inner_1RB_Right | 23.46 | 21.11 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM | M | Outer_Full | 22.6 | 20.25 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM | M | Inner_1RB_Left | 22.19 | 19.84 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM | M | Inner_1RB_Right | 22.1 | 19.75 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM | M | Outer_Full | 22.13 | 19.78 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM | M | Inner_1RB_Left | 19.47 | 17.12 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM | M | Inner_1RB_Right | 19.46 | 17.11 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM | M | Outer_Full | 20.03 | 17.68 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | H | Inner_1RB_Left | 24.49 | 22.14 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | H | Inner_1RB_Right | 24.43 | 22.08 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | H | Outer_Full | 24.06 | 21.71 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK | H | Inner_1RB_Left | 24.34 | 21.99 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK | H | Inner_1RB_Right | 24.29 | 21.94 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-QPSK | H | Outer_Full | 23.54 | 21.19 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM | H | Inner_1RB_Left | 23.36 | 21.01 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM | H | Inner_1RB_Right | 23.32 | 20.97 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-16QAM | H | Outer_Full | 22.66 | 20.31 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM | H | Inner_1RB_Left | 22.19 | 19.84 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM | H | Inner_1RB_Right | 22.12 | 19.77 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-64QAM | H | Outer_Full | 22.14 | 19.79 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM | H | Inner_1RB_Left | 19.5 | 17.15 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM | H | Inner_1RB_Right | 19.38 | 17.03 | 34.77 | PASS |
| N12 | 15 | 15 | DFT-256QAM | H | Outer_Full | 19.99 | 17.64 | 34.77 | PASS |



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Peak-to-Average Ratio for SA

Test Result

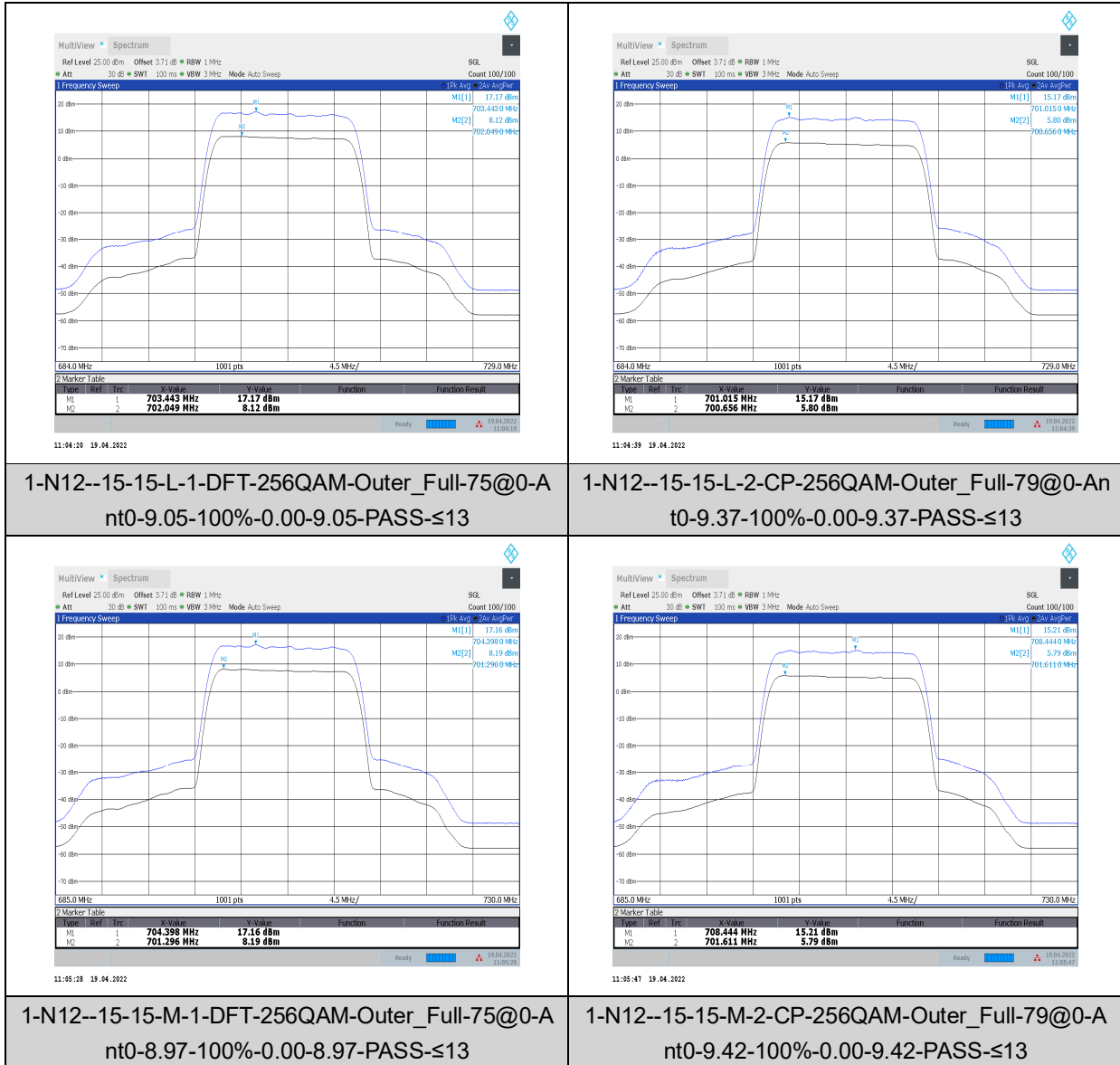
| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Duty Cycle | Factor | Result | Limit | Verdict |
|------|-----|-----------|------------|---------|------------|------------|--------|--------|-------|---------|
| N12 | 15 | 15 | DFT-256QAM | L | Outer_Full | 100% | 0.00 | 9.05 | ≤13 | PASS |
| N12 | 15 | 15 | CP-256QAM | L | Outer_Full | 100% | 0.00 | 9.37 | ≤13 | PASS |
| N12 | 15 | 15 | DFT-256QAM | M | Outer_Full | 100% | 0.00 | 8.97 | ≤13 | PASS |
| N12 | 15 | 15 | CP-256QAM | M | Outer_Full | 100% | 0.00 | 9.42 | ≤13 | PASS |
| N12 | 15 | 15 | DFT-256QAM | H | Outer_Full | 100% | 0.00 | 8.89 | ≤13 | PASS |
| N12 | 15 | 15 | CP-256QAM | H | Outer_Full | 100% | 0.00 | 9.45 | ≤13 | PASS |



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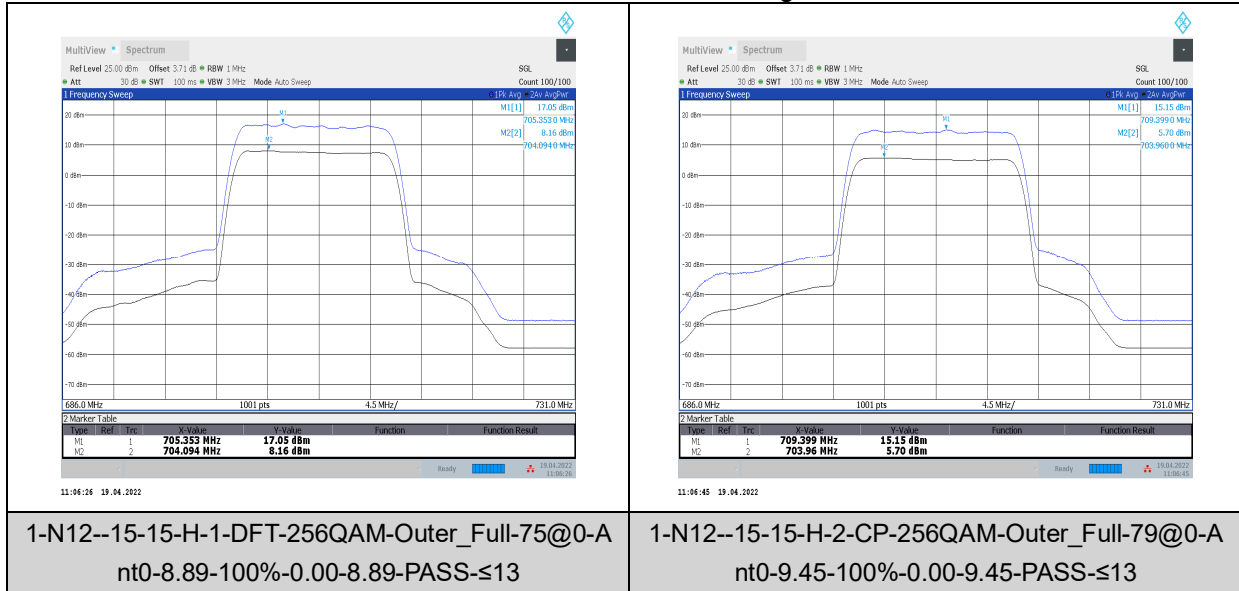
Test Graphs



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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Result (99%) | Result (26dB) | Verdict |
|------|-----|-----------|-------------|---------|------------|--------------|---------------|---------|
| N12 | 15 | 5 | DFT-QPSK | L | Outer_Full | 4.478 | 4.990 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | L | Outer_Full | 4.487 | 5.110 | PASS |
| N12 | 15 | 5 | DFT-16QAM | L | Outer_Full | 4.474 | 5.030 | PASS |
| N12 | 15 | 5 | DFT-64QAM | L | Outer_Full | 4.475 | 5.130 | PASS |
| N12 | 15 | 5 | DFT-256QAM | L | Outer_Full | 4.482 | 5.110 | PASS |
| N12 | 15 | 5 | CP-QPSK | L | Outer_Full | 4.47 | 5.140 | PASS |
| N12 | 15 | 5 | CP-16QAM | L | Outer_Full | 4.482 | 5.090 | PASS |
| N12 | 15 | 5 | CP-64QAM | L | Outer_Full | 4.476 | 5.210 | PASS |
| N12 | 15 | 5 | CP-256QAM | L | Outer_Full | 4.491 | 5.150 | PASS |
| N12 | 15 | 5 | DFT-QPSK | M | Outer_Full | 4.485 | 5.120 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | M | Outer_Full | 4.485 | 5.160 | PASS |
| N12 | 15 | 5 | DFT-16QAM | M | Outer_Full | 4.473 | 5.060 | PASS |
| N12 | 15 | 5 | DFT-64QAM | M | Outer_Full | 4.47 | 5.090 | PASS |
| N12 | 15 | 5 | DFT-256QAM | M | Outer_Full | 4.477 | 5.050 | PASS |
| N12 | 15 | 5 | CP-QPSK | M | Outer_Full | 4.48 | 5.240 | PASS |
| N12 | 15 | 5 | CP-16QAM | M | Outer_Full | 4.474 | 5.140 | PASS |
| N12 | 15 | 5 | CP-64QAM | M | Outer_Full | 4.48 | 5.150 | PASS |
| N12 | 15 | 5 | CP-256QAM | M | Outer_Full | 4.492 | 5.150 | PASS |
| N12 | 15 | 5 | DFT-QPSK | H | Outer_Full | 4.486 | 5.130 | PASS |
| N12 | 15 | 5 | DFT-PI2BPSK | H | Outer_Full | 4.481 | 5.110 | PASS |
| N12 | 15 | 5 | DFT-16QAM | H | Outer_Full | 4.47 | 5.050 | PASS |
| N12 | 15 | 5 | DFT-64QAM | H | Outer_Full | 4.477 | 5.130 | PASS |
| N12 | 15 | 5 | DFT-256QAM | H | Outer_Full | 4.476 | 5.020 | PASS |
| N12 | 15 | 5 | CP-QPSK | H | Outer_Full | 4.492 | 5.210 | PASS |
| N12 | 15 | 5 | CP-16QAM | H | Outer_Full | 4.475 | 5.130 | PASS |
| N12 | 15 | 5 | CP-64QAM | H | Outer_Full | 4.481 | 5.170 | PASS |
| N12 | 15 | 5 | CP-256QAM | H | Outer_Full | 4.489 | 5.190 | PASS |
| N12 | 15 | 10 | DFT-QPSK | L | Outer_Full | 8.918 | 9.720 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | L | Outer_Full | 8.931 | 9.660 | PASS |
| N12 | 15 | 10 | DFT-16QAM | L | Outer_Full | 8.928 | 9.760 | PASS |
| N12 | 15 | 10 | DFT-64QAM | L | Outer_Full | 8.938 | 9.760 | PASS |



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| | | | | | | | | |
|-----|----|----|-------------|---|------------|--------|--------|------|
| N12 | 15 | 10 | DFT-256QAM | L | Outer_Full | 8.918 | 9.800 | PASS |
| N12 | 15 | 10 | CP-QPSK | L | Outer_Full | 9.282 | 10.220 | PASS |
| N12 | 15 | 10 | CP-16QAM | L | Outer_Full | 9.284 | 10.240 | PASS |
| N12 | 15 | 10 | CP-64QAM | L | Outer_Full | 9.294 | 10.220 | PASS |
| N12 | 15 | 10 | CP-256QAM | L | Outer_Full | 9.284 | 10.140 | PASS |
| N12 | 15 | 10 | DFT-QPSK | M | Outer_Full | 8.937 | 9.620 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | 8.945 | 9.620 | PASS |
| N12 | 15 | 10 | DFT-16QAM | M | Outer_Full | 8.932 | 9.680 | PASS |
| N12 | 15 | 10 | DFT-64QAM | M | Outer_Full | 8.927 | 9.660 | PASS |
| N12 | 15 | 10 | DFT-256QAM | M | Outer_Full | 8.933 | 9.620 | PASS |
| N12 | 15 | 10 | CP-QPSK | M | Outer_Full | 9.3 | 10.300 | PASS |
| N12 | 15 | 10 | CP-16QAM | M | Outer_Full | 9.28 | 10.060 | PASS |
| N12 | 15 | 10 | CP-64QAM | M | Outer_Full | 9.296 | 10.200 | PASS |
| N12 | 15 | 10 | CP-256QAM | M | Outer_Full | 9.285 | 10.100 | PASS |
| N12 | 15 | 10 | DFT-QPSK | H | Outer_Full | 8.943 | 9.720 | PASS |
| N12 | 15 | 10 | DFT-PI2BPSK | H | Outer_Full | 8.941 | 9.840 | PASS |
| N12 | 15 | 10 | DFT-16QAM | H | Outer_Full | 8.948 | 9.620 | PASS |
| N12 | 15 | 10 | DFT-64QAM | H | Outer_Full | 8.939 | 9.740 | PASS |
| N12 | 15 | 10 | DFT-256QAM | H | Outer_Full | 8.939 | 9.680 | PASS |
| N12 | 15 | 10 | CP-QPSK | H | Outer_Full | 9.302 | 10.240 | PASS |
| N12 | 15 | 10 | CP-16QAM | H | Outer_Full | 9.287 | 10.240 | PASS |
| N12 | 15 | 10 | CP-64QAM | H | Outer_Full | 9.319 | 10.260 | PASS |
| N12 | 15 | 10 | CP-256QAM | H | Outer_Full | 9.305 | 10.200 | PASS |
| N12 | 15 | 15 | DFT-QPSK | L | Outer_Full | 13.488 | 14.460 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | L | Outer_Full | 13.401 | 14.340 | PASS |
| N12 | 15 | 15 | DFT-16QAM | L | Outer_Full | 13.428 | 14.400 | PASS |
| N12 | 15 | 15 | DFT-64QAM | L | Outer_Full | 13.411 | 14.490 | PASS |
| N12 | 15 | 15 | DFT-256QAM | L | Outer_Full | 13.416 | 14.490 | PASS |
| N12 | 15 | 15 | CP-QPSK | L | Outer_Full | 14.115 | 15.240 | PASS |
| N12 | 15 | 15 | CP-16QAM | L | Outer_Full | 14.096 | 15.090 | PASS |
| N12 | 15 | 15 | CP-64QAM | L | Outer_Full | 14.135 | 15.180 | PASS |
| N12 | 15 | 15 | CP-256QAM | L | Outer_Full | 14.125 | 15.240 | PASS |
| N12 | 15 | 15 | DFT-QPSK | M | Outer_Full | 13.492 | 14.430 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | 13.433 | 14.370 | PASS |
| N12 | 15 | 15 | DFT-16QAM | M | Outer_Full | 13.438 | 14.490 | PASS |
| N12 | 15 | 15 | DFT-64QAM | M | Outer_Full | 13.424 | 14.550 | PASS |
| N12 | 15 | 15 | DFT-256QAM | M | Outer_Full | 13.425 | 14.430 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | 14.134 | 15.300 | PASS |



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Report No.: SEWA2309000114RG10

Rev.: 01

Page: 11 of 48

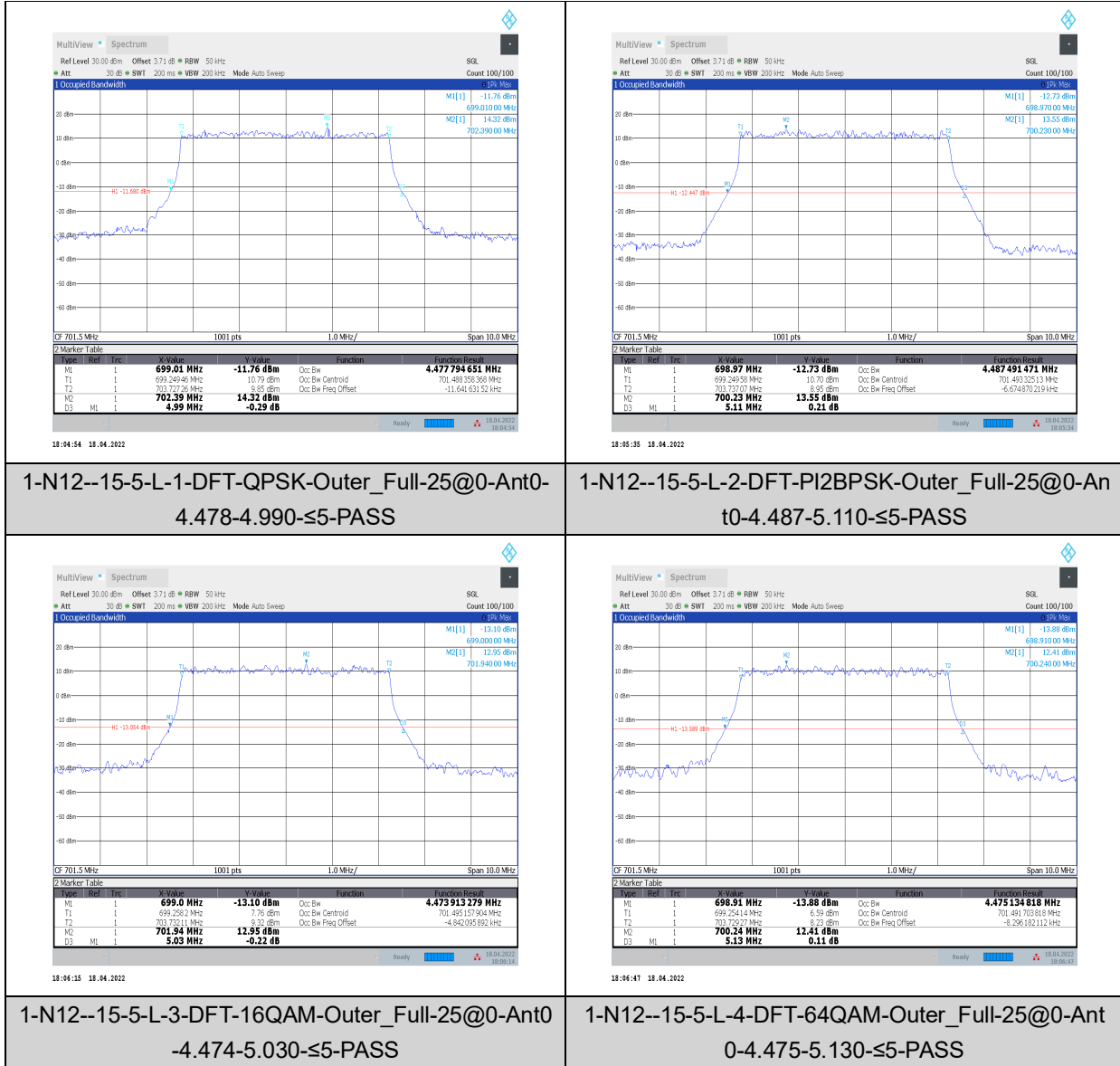
| | | | | | | | | |
|-----|----|----|-------------|---|------------|--------|--------|------|
| N12 | 15 | 15 | CP-16QAM | M | Outer_Full | 14.12 | 15.120 | PASS |
| N12 | 15 | 15 | CP-64QAM | M | Outer_Full | 14.158 | 15.210 | PASS |
| N12 | 15 | 15 | CP-256QAM | M | Outer_Full | 14.147 | 15.270 | PASS |
| N12 | 15 | 15 | DFT-QPSK | H | Outer_Full | 13.5 | 14.460 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | H | Outer_Full | 13.425 | 14.340 | PASS |
| N12 | 15 | 15 | DFT-16QAM | H | Outer_Full | 13.439 | 14.550 | PASS |
| N12 | 15 | 15 | DFT-64QAM | H | Outer_Full | 13.416 | 14.490 | PASS |
| N12 | 15 | 15 | DFT-256QAM | H | Outer_Full | 13.45 | 14.610 | PASS |
| N12 | 15 | 15 | CP-QPSK | H | Outer_Full | 14.124 | 15.270 | PASS |
| N12 | 15 | 15 | CP-16QAM | H | Outer_Full | 14.124 | 15.240 | PASS |
| N12 | 15 | 15 | CP-64QAM | H | Outer_Full | 14.143 | 15.090 | PASS |
| N12 | 15 | 15 | CP-256QAM | H | Outer_Full | 14.145 | 15.270 | PASS |



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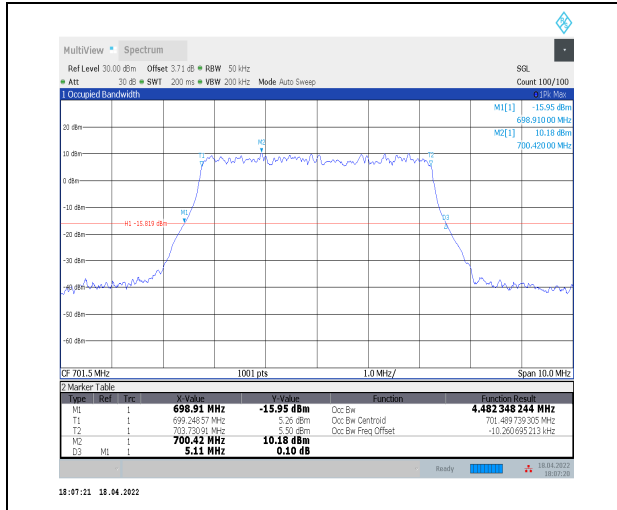
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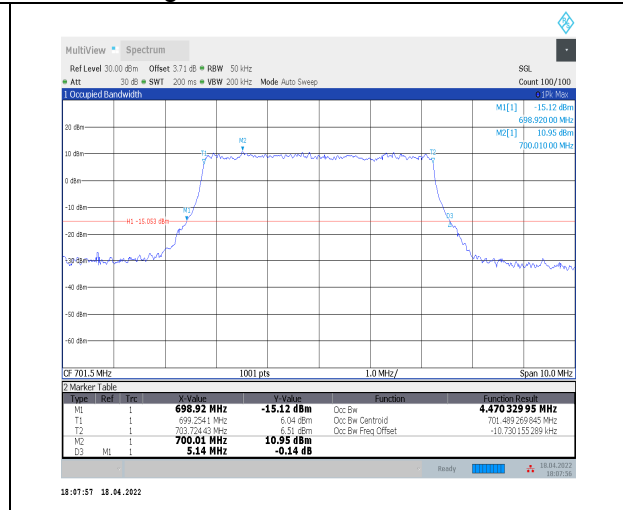
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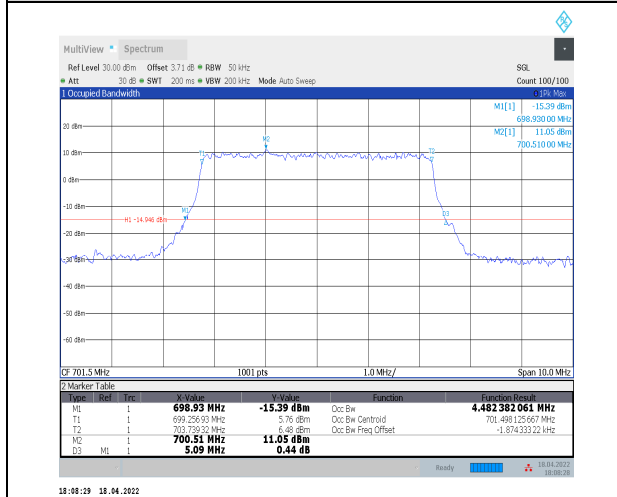
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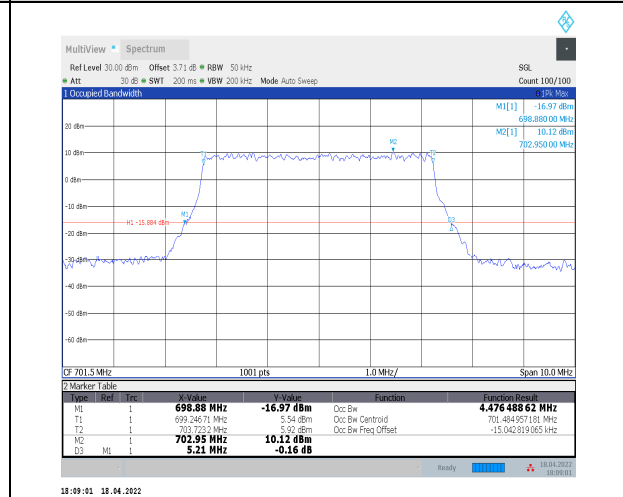
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0-4.482-5.110-\leq5-PASS



1-N12--15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant0-4
.47-5.140-\leq5-PASS



1-N12--15-5-L-7-CP-16QAM-Outer_Full-25@0-Ant0-
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1-N12--15-5-L-8-CP-64QAM-Outer_Full-25@0-Ant0-
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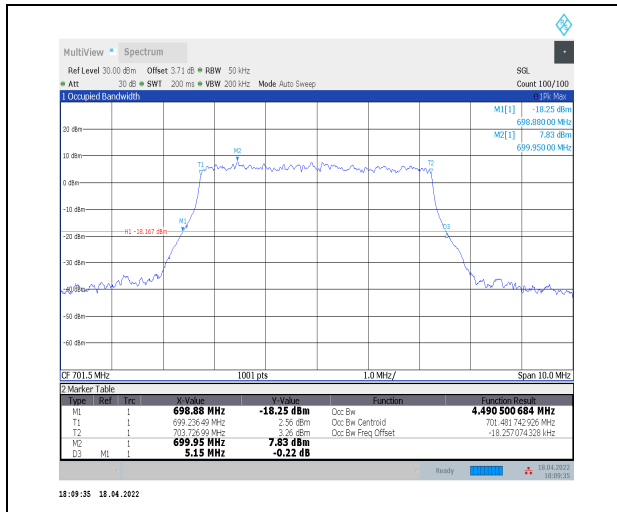


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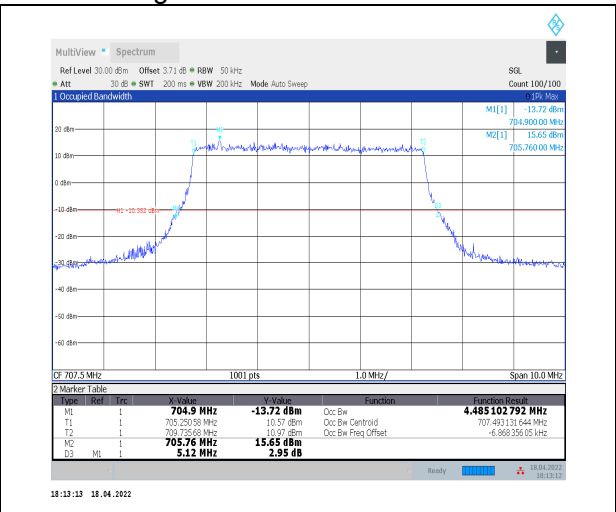
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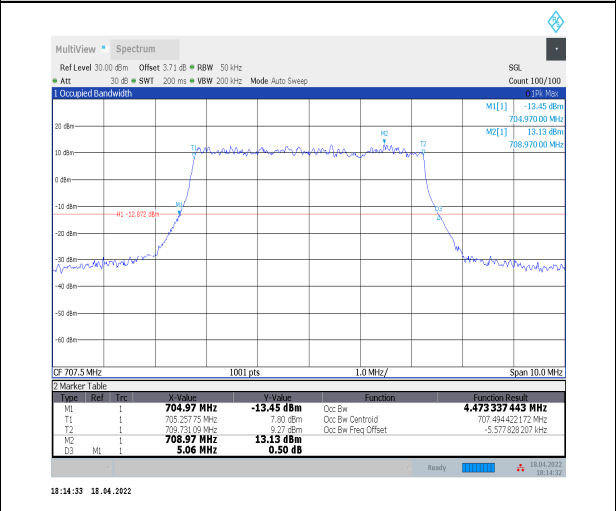
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-4.491-5.150≤5-PASS



1-N12--15-5-M-1-DFT-QPSK-Outer_Full-25@0-Ant0
-4.485-5.120≤5-PASS



1-N12--15-5-M-2-DFT-PI2BPSK-Outer_Full-25@0-A
nt0-4.485-5.160≤5-PASS



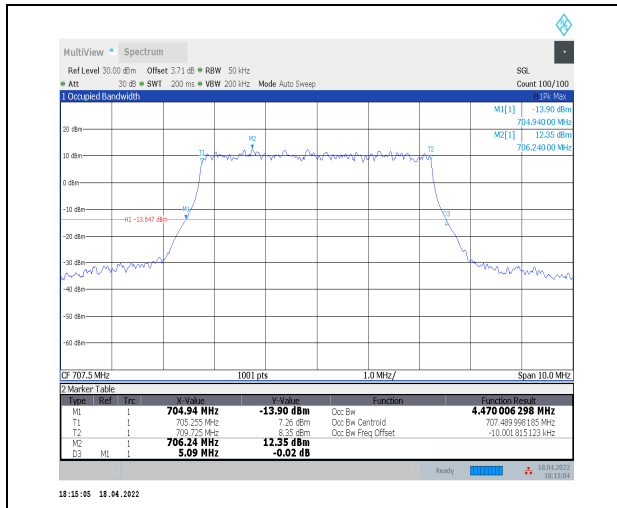
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0-4.473-5.060≤5-PASS



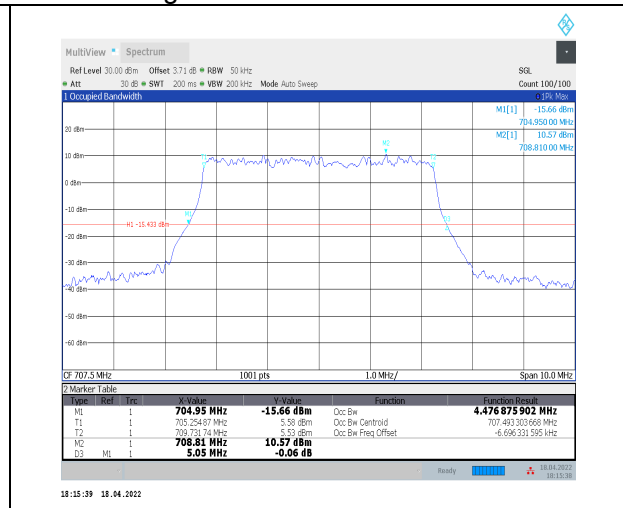
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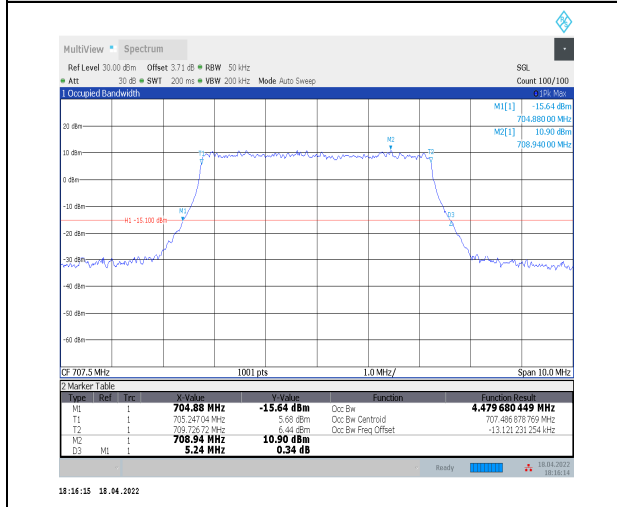
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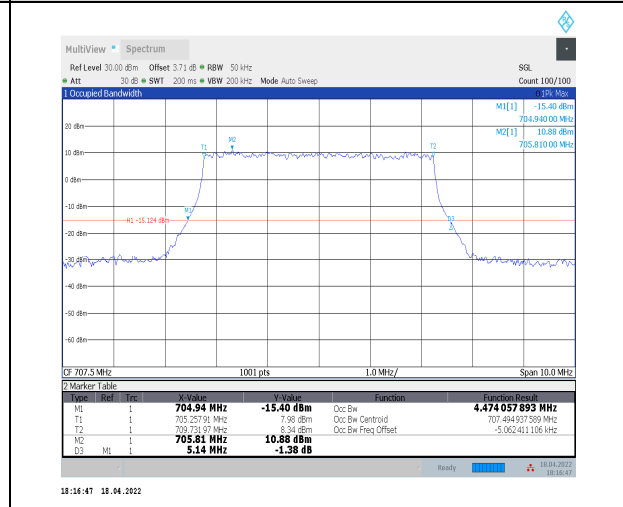
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0-4.47-5.090-≤5-PASS



1-N12--15-5-M-5-DFT-256QAM-Outer_Full-25@0-A
nt0-4.477-5.050-≤5-PASS



1-N12--15-5-M-6-CP-QPSK-Outer_Full-25@0-Ant0-4
.48-5.240-≤5-PASS



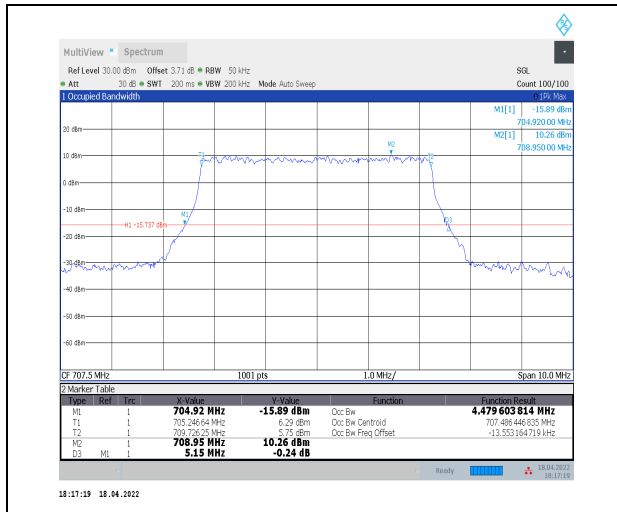
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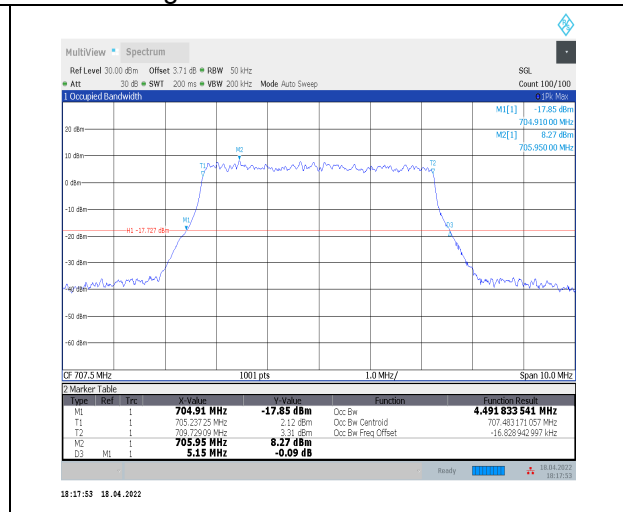
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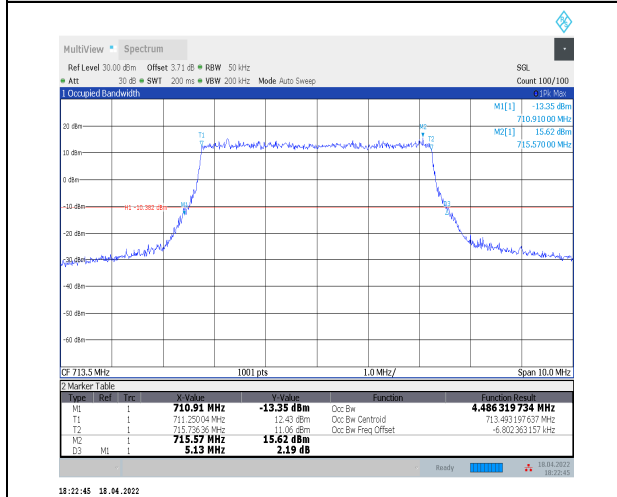
South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgs.com.cn
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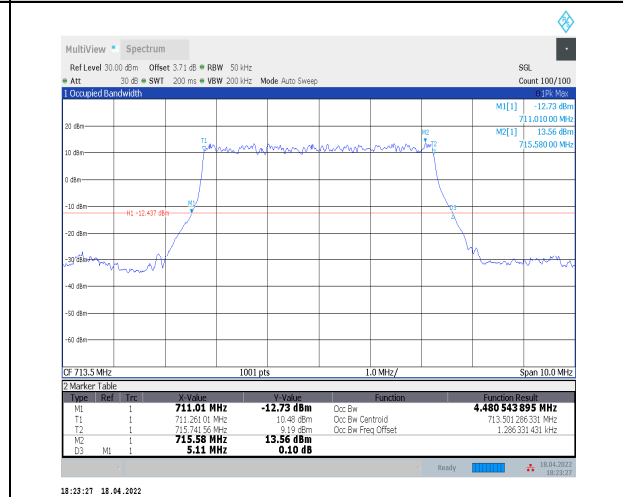
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-4.48-5.150-≤5-PASS



1-N12--15-5-M-9-CP-256QAM-Outer_Full-25@0-Ant
0-4.492-5.150-≤5-PASS



1-N12--15-5-H-1-DFT-QPSK-Outer_Full-25@0-Ant0
4.486-5.130-≤5-PASS



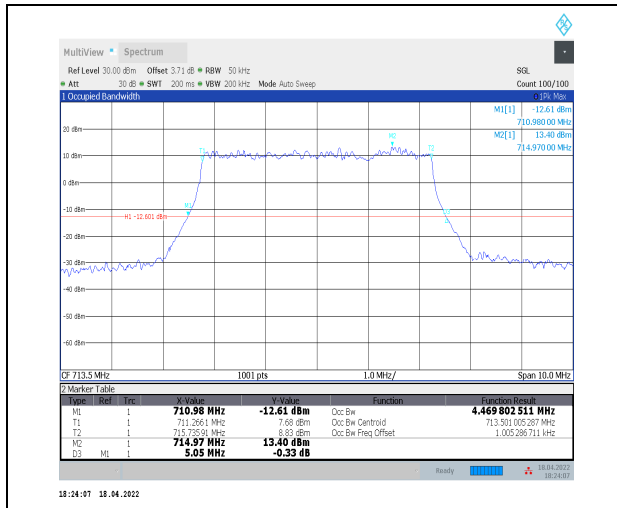
1-N12--15-5-H-2-DFT-PI2BPSK-Outer_Full-25@0-Ant0
4.481-5.110-≤5-PASS



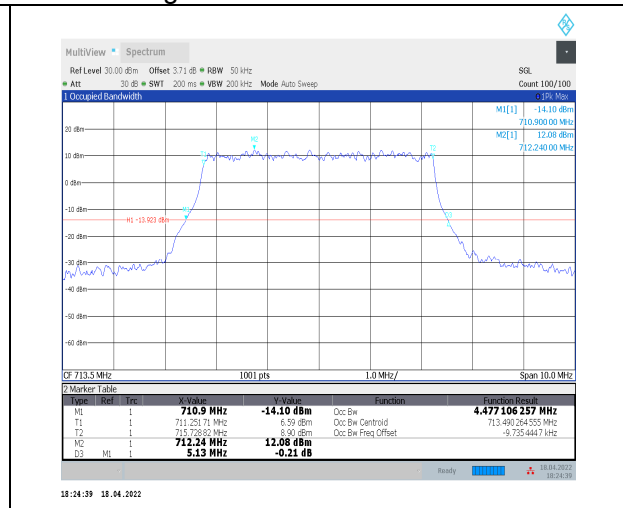
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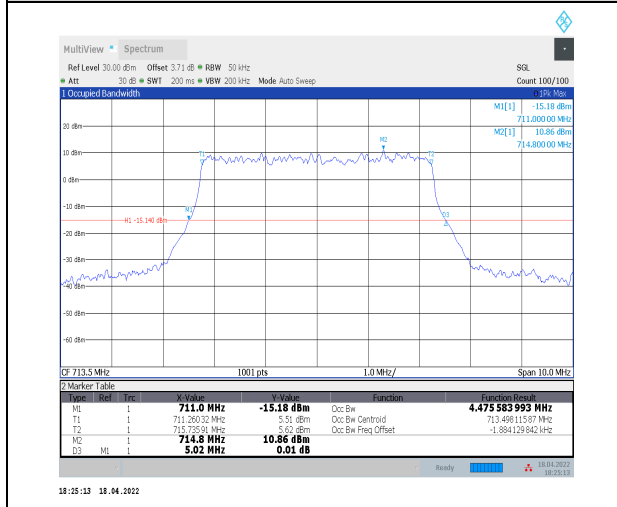
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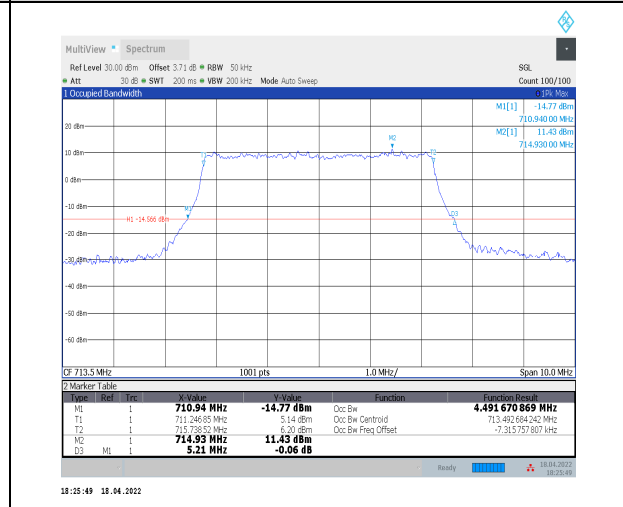
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0-4.47-5.050-\leq5-PASS



1-N12--15-5-H-4-DFT-64QAM-Outer_Full-25@0-Ant
0-4.477-5.130-\leq5-PASS



1-N12--15-5-H-5-DFT-256QAM-Outer_Full-25@0-Ant
t0-4.476-5.020-\leq5-PASS



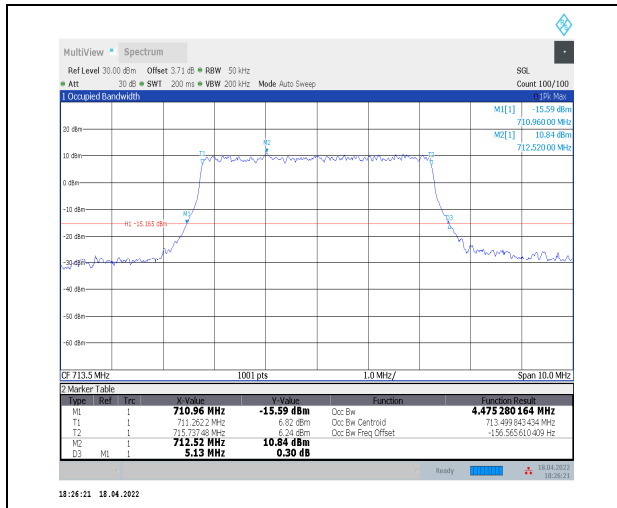
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.492-5.210-\leq5-PASS



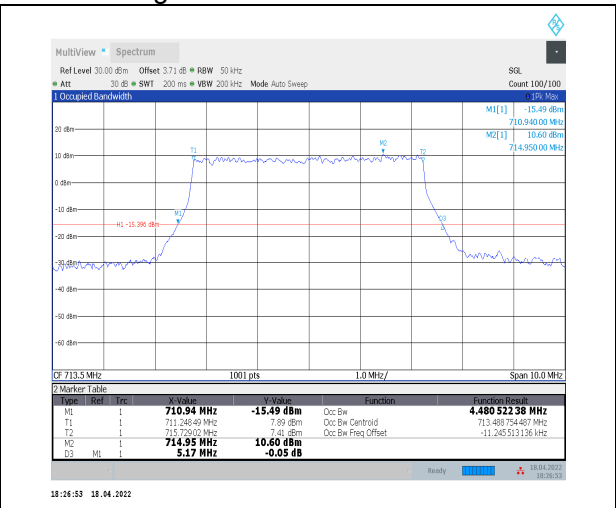
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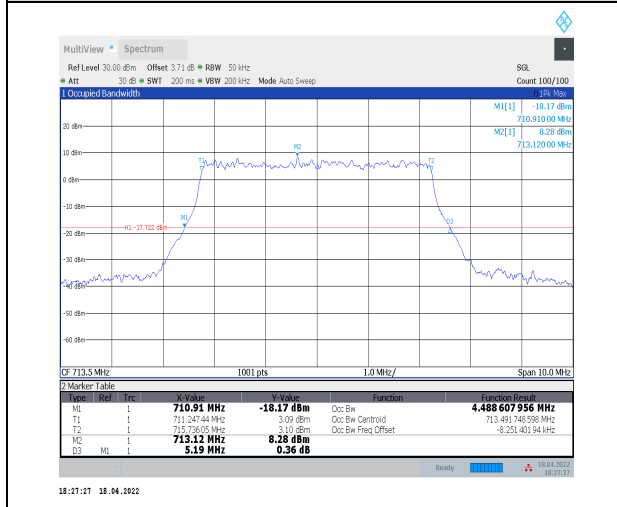
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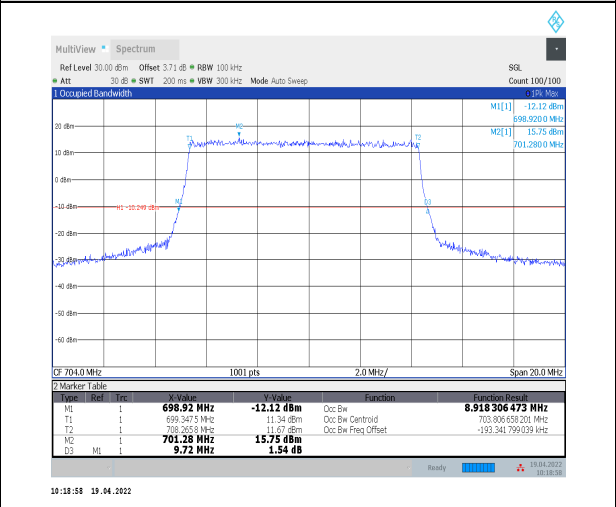
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1-N12--15-5-H-8-CP-64QAM-Outer_Full-25@0-Ant0-4.481-5.170-≤ 5-PASS



1-N12--15-5-H-9-CP-256QAM-Outer_Full-25@0-Ant0-4.489-5.190-≤ 5-PASS



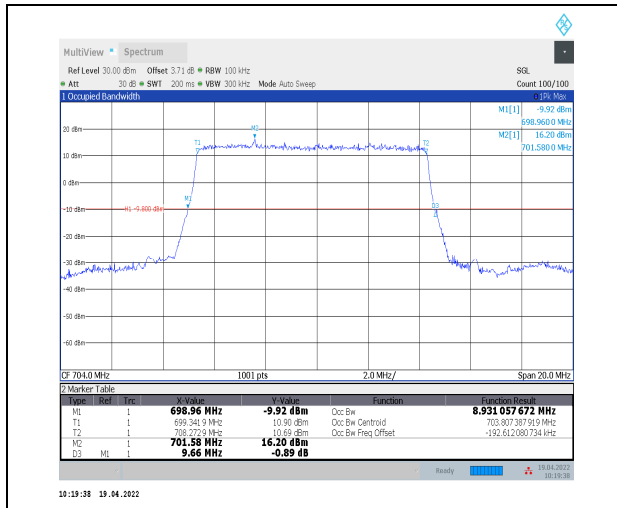
1-N12--15-10-L-1-DFT-QPSK-Outer_Full-50@0-Ant0-8.918-9.720-≤ 10-PASS



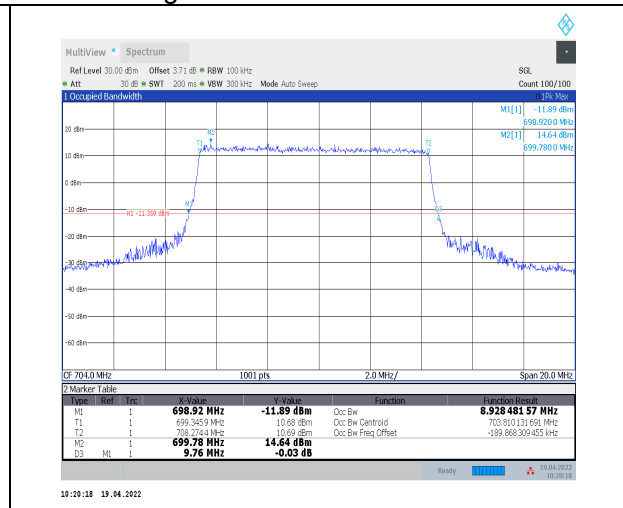
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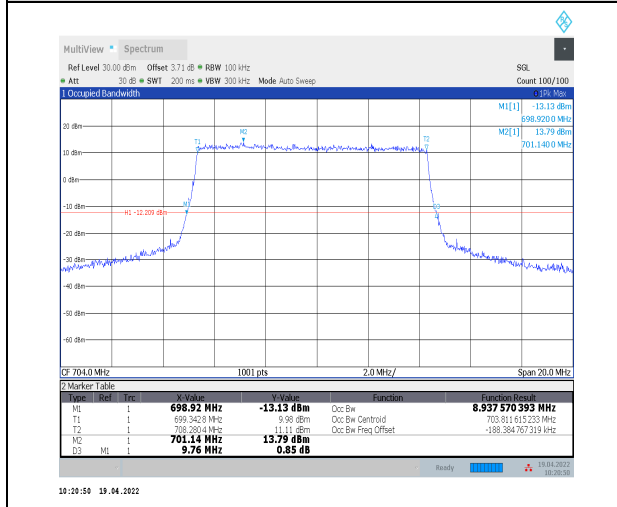
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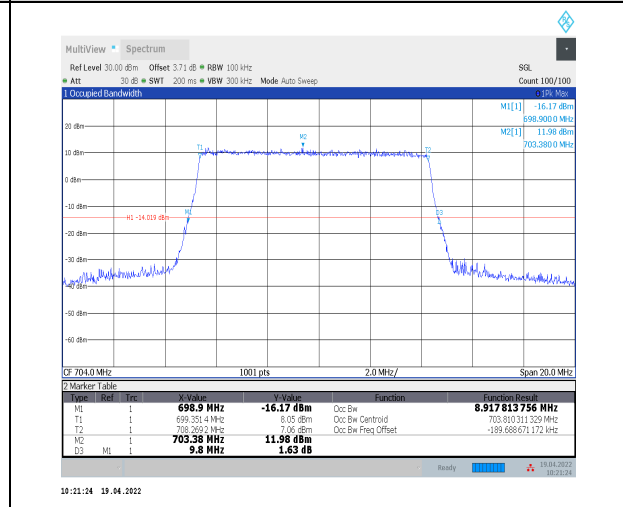
1-N12--15-10-L-2-DFT-PI2BPSK-Outer_Full-50@0-A
nt0-8.931-9.660-≤10-PASS



1-N12--15-10-L-3-DFT-16QAM-Outer_Full-50@0-An
t0-8.928-9.760-≤10-PASS



1-N12--15-10-L-4-DFT-64QAM-Outer_Full-50@0-Ant
0-8.938-9.760-≤10-PASS



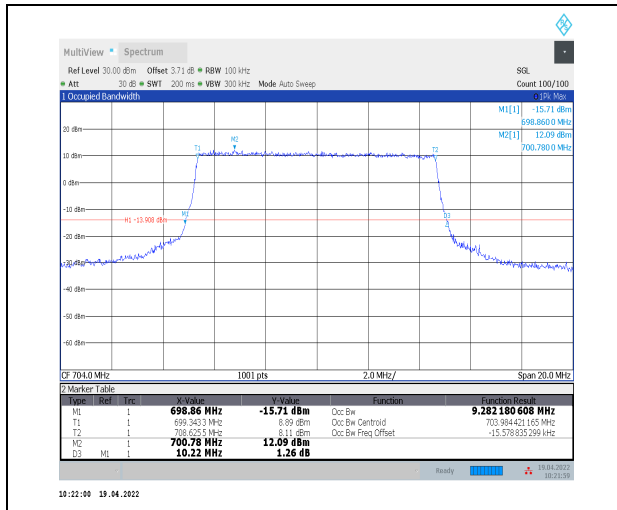
1-N12--15-10-L-5-DFT-256QAM-Outer_Full-50@0-A
nt0-8.918-9.800-≤10-PASS



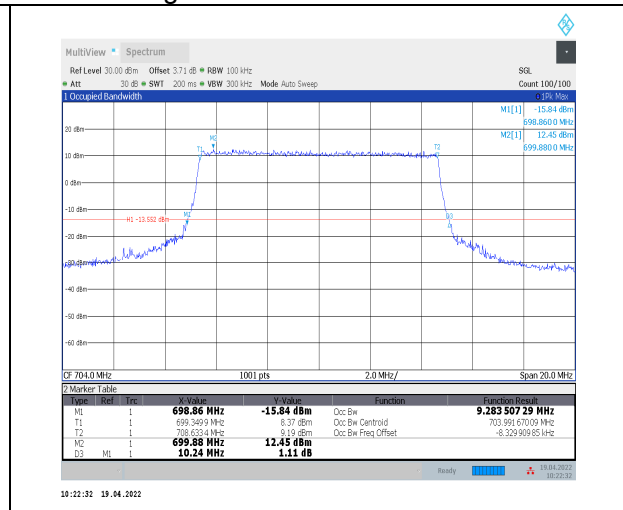
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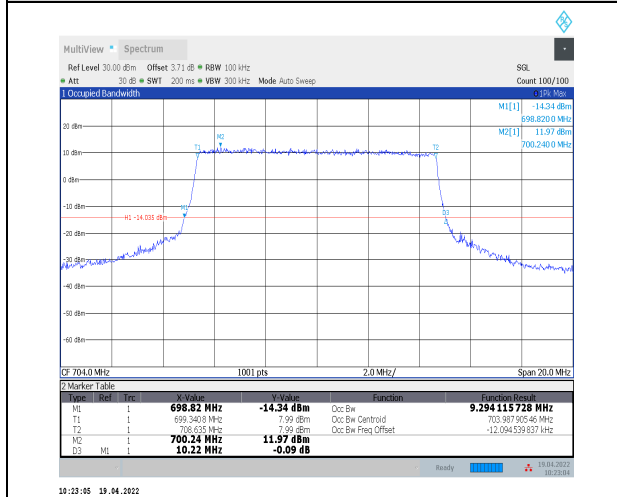
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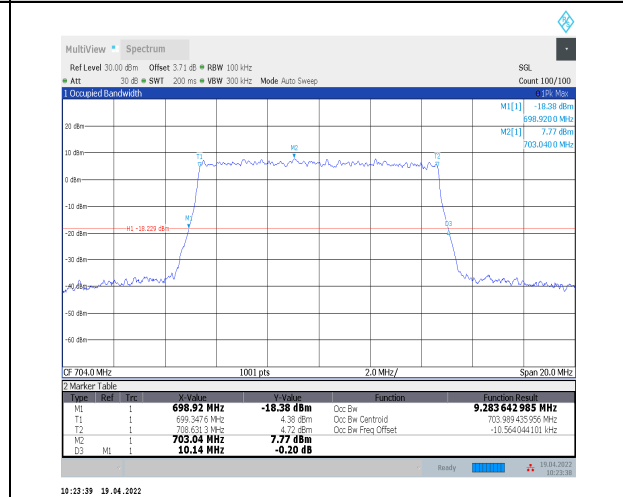
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9.282-10.220≤10-PASS



1-N12--15-10-L-7-CP-16QAM-Outer_Full-52@0-Ant
0-9.284-10.240≤10-PASS



1-N12--15-10-L-8-CP-64QAM-Outer_Full-52@0-Ant0
-9.294-10.220≤10-PASS



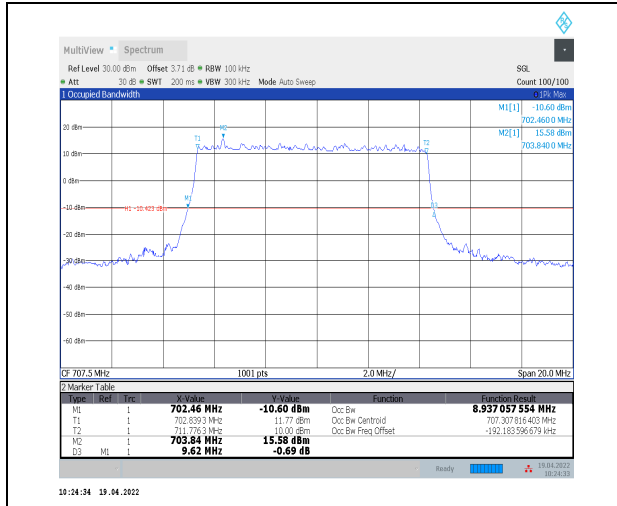
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10-9.284-10.140≤10-PASS



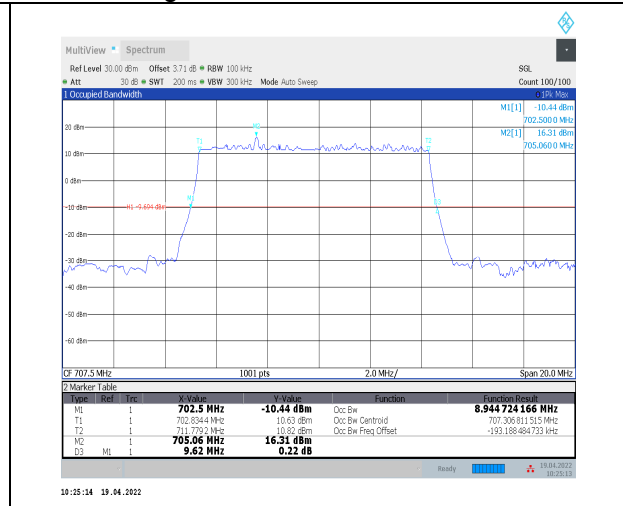
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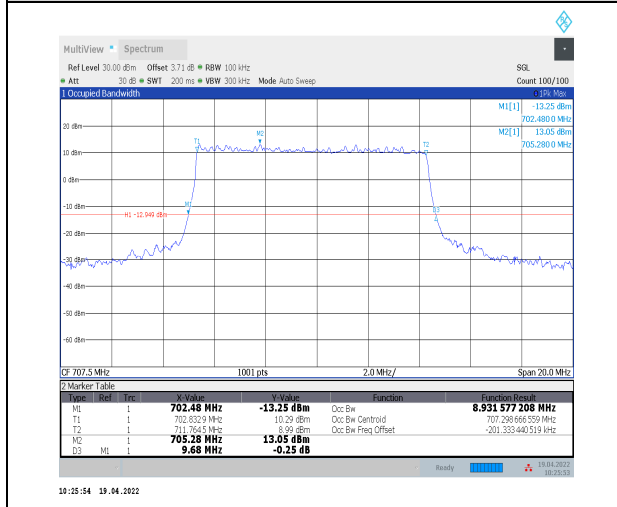
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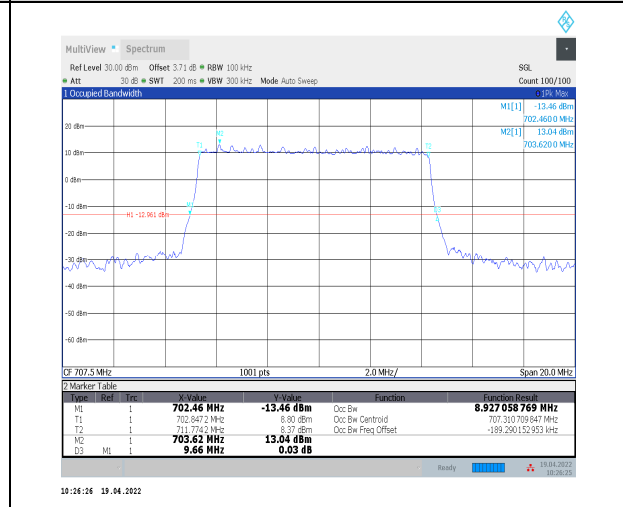
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0-8.937-9.620-<=10-PASS



1-N12--15-10-M-2-DFT-PI2BPSK-Outer_Full-50@0-
Ant0-8.945-9.620-<=10-PASS



1-N12--15-10-M-3-DFT-16QAM-Outer_Full-50@0-Ant
t0-8.932-9.680-<=10-PASS



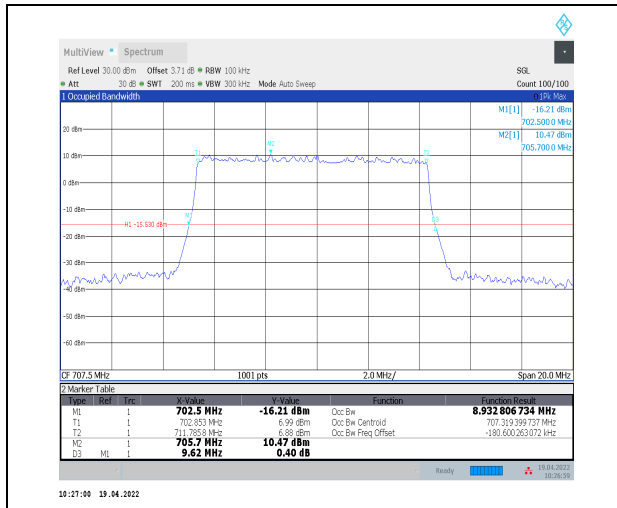
1-N12--15-10-M-4-DFT-64QAM-Outer_Full-50@0-A
nt0-8.927-9.660-<=10-PASS



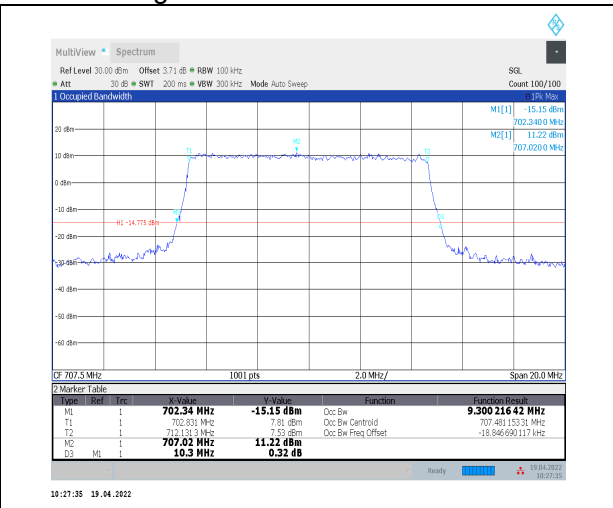
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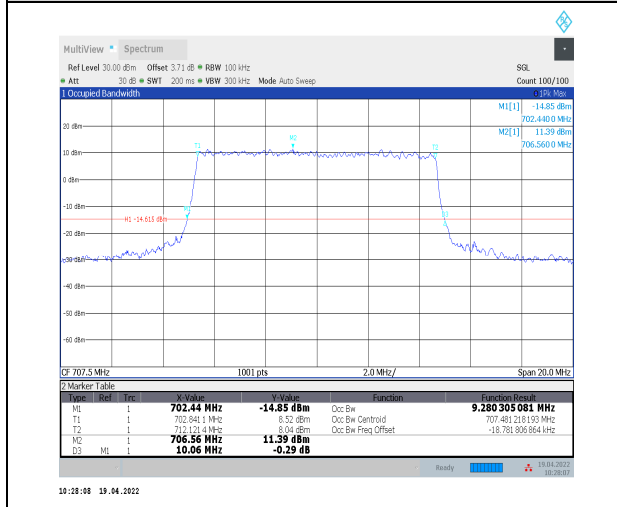
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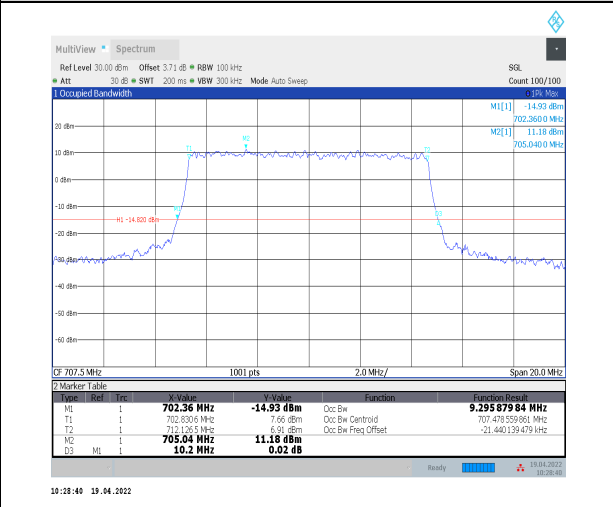
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nt0-8.933-9.620-≤10-PASS



1-N12--15-10-M-6-CP-QPSK-Outer_Full-52@0-Ant0
-9.3-10.300-≤10-PASS



1-N12--15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant
0-9.28-10.060-≤10-PASS



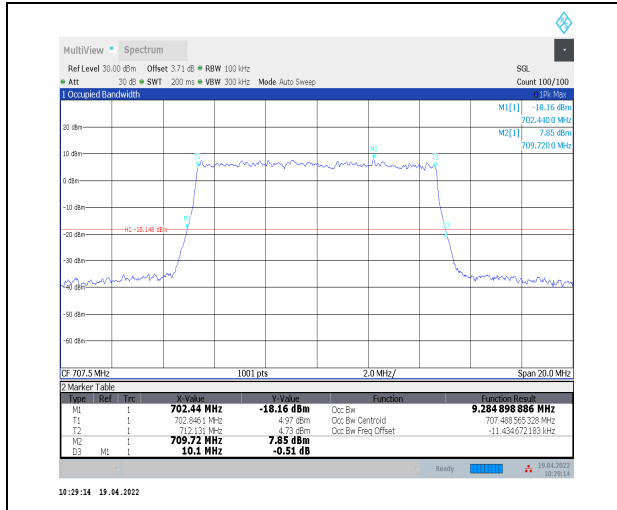
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0-9.296-10.200-≤10-PASS



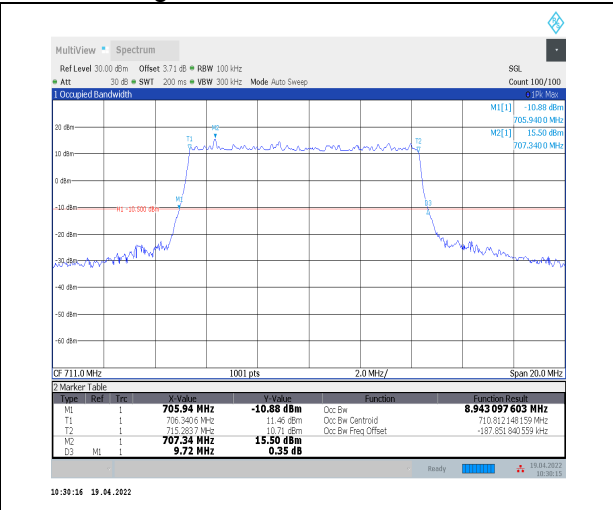
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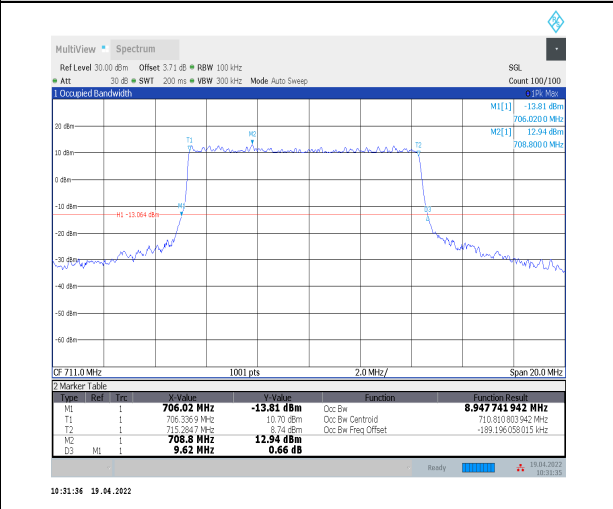
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t0-9.285-10.100-<=10-PASS



1-N12--15-10-H-1-DFT-QPSK-Outer_Full-50@0-Ant
0-8.943-9.720-<=10-PASS



1-N12--15-10-H-2-DFT-PI2BPSK-Outer_Full-50@0-Ant0-8.941-9.840-<=10-PASS



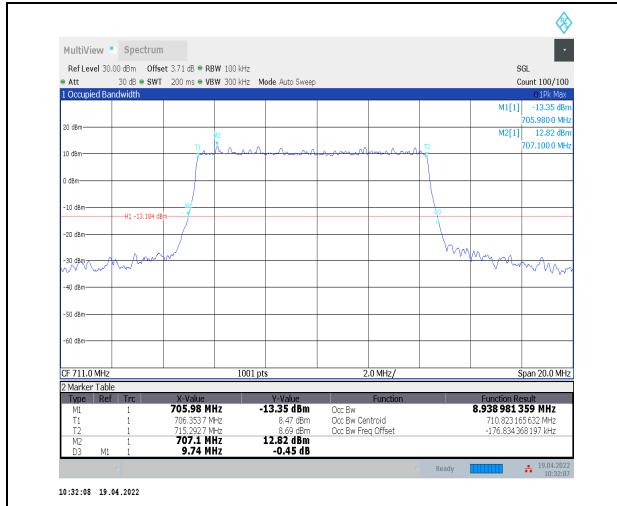
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t0-8.948-9.620-<=10-PASS



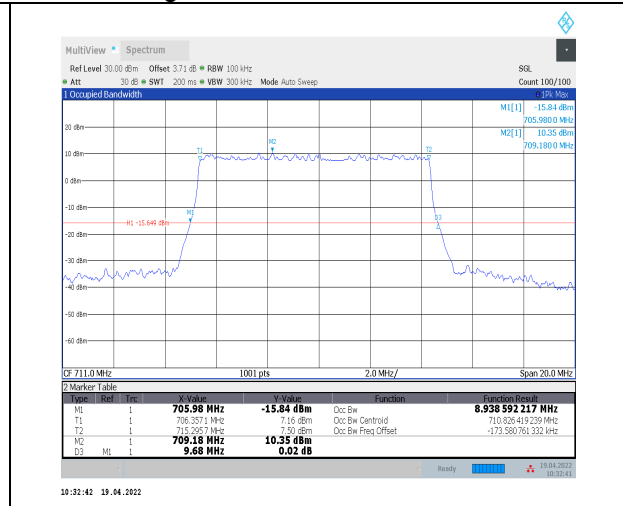
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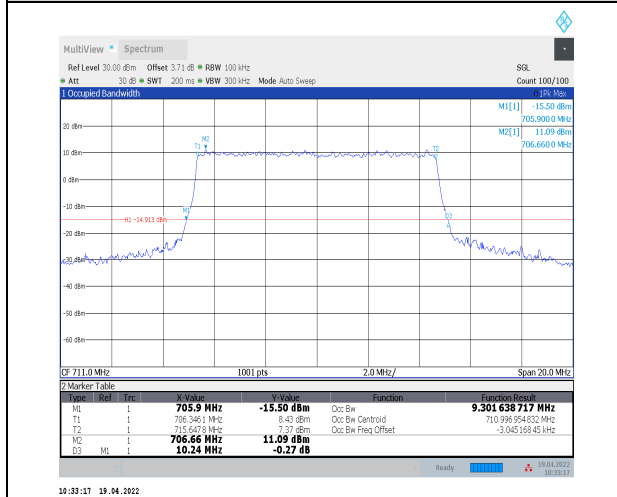
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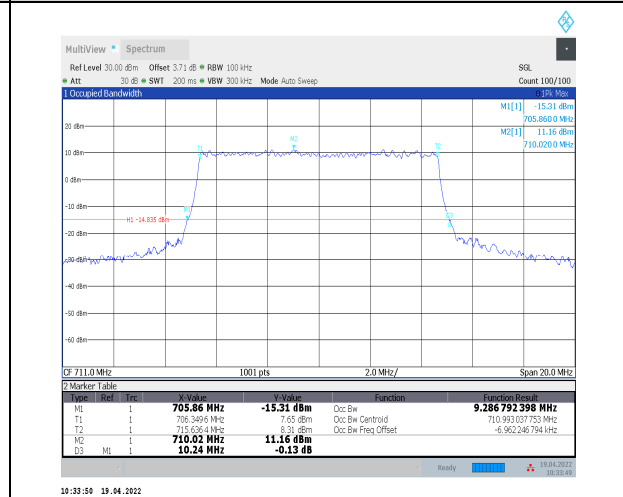
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t0-8.939-9.740-≤10-PASS



1-N12--15-10-H-5-DFT-256QAM-Outer_Full-50@0-Ant
nt0-8.939-9.680-≤10-PASS



1-N12--15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant0
9.302-10.240-≤10-PASS



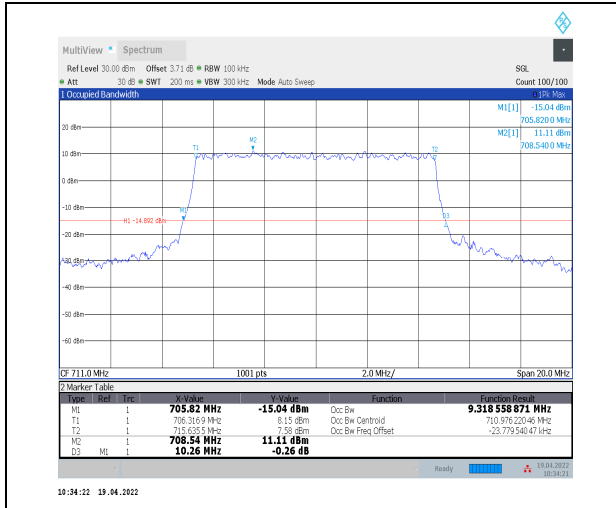
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0-9.287-10.240-≤10-PASS



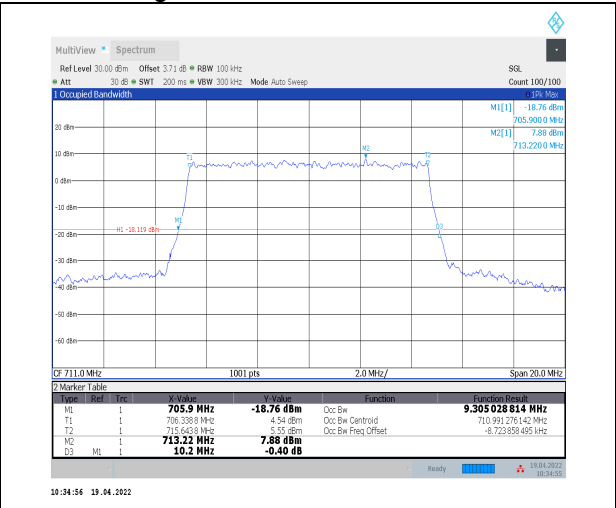
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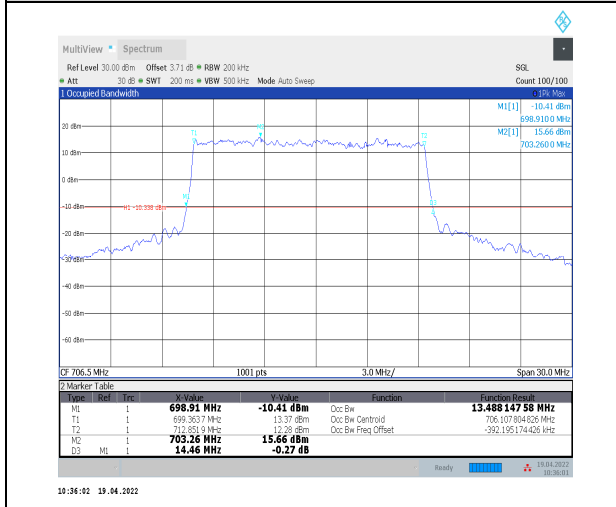
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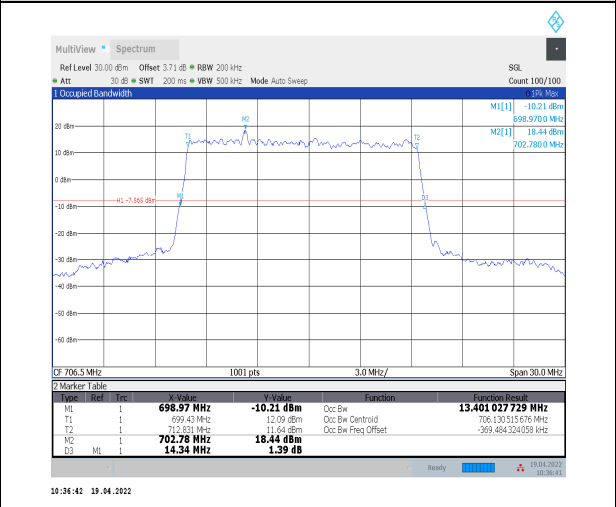
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0-9.319-10.260-≤10-PASS



1-N12--15-10-H-9-CP-256QAM-Outer_Full-52@0-An
10-9.305-10.200-≤10-PASS



1-N12--15-15-L-1-DFT-QPSK-Outer_Full-75@0-Ant0
-13.488-14.460-≤15-PASS



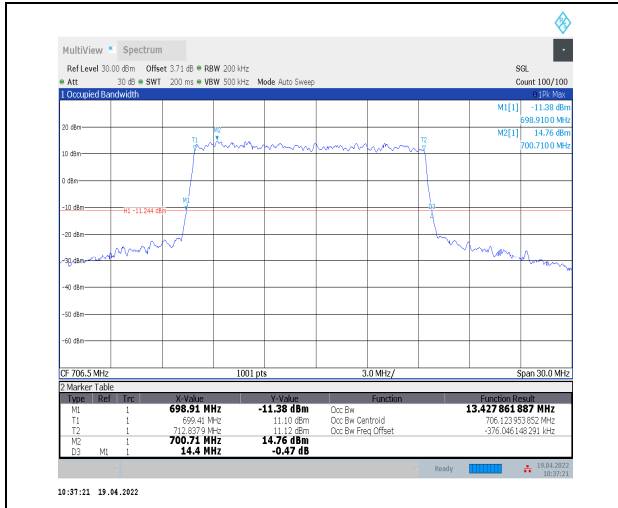
1-N12--15-15-L-2-DFT-PI2BPSK-Outer_Full-75@0-A
n0-13.401-14.340-≤15-PASS



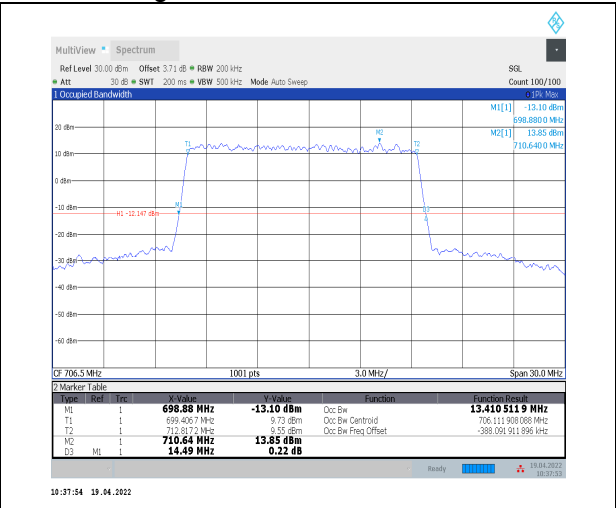
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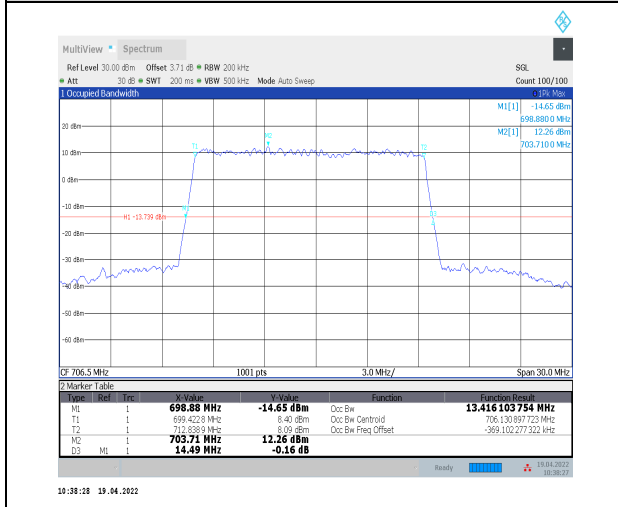
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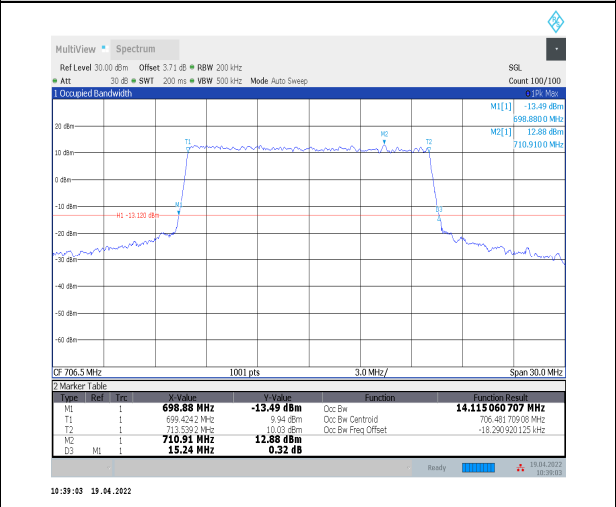
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0-13.428-14.400≤15-PASS



1-N12--15-15-L-4-DFT-64QAM-Outer_Full-75@0-An
t0-13.411-14.490≤15-PASS



1-N12--15-15-L-5-DFT-256QAM-Outer_Full-75@0-A
nt0-13.416-14.490≤15-PASS



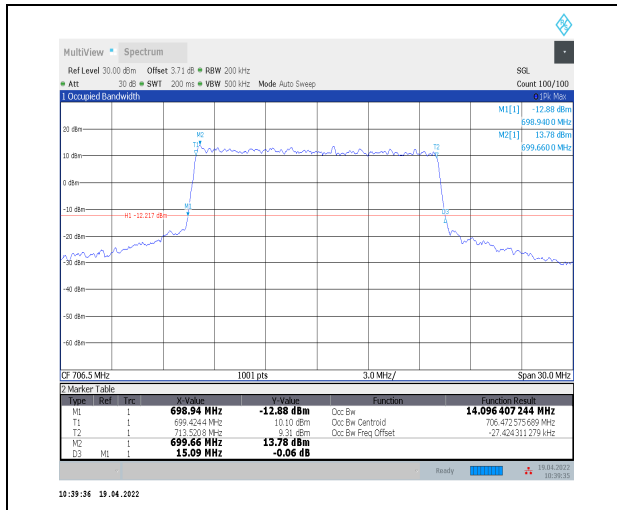
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14.115-15.240≤15-PASS



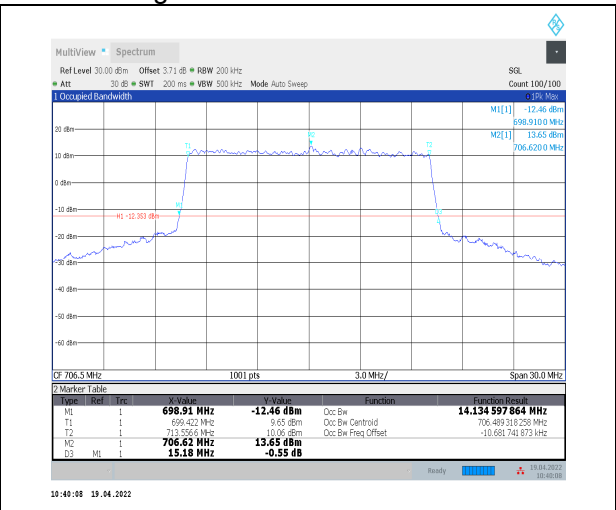
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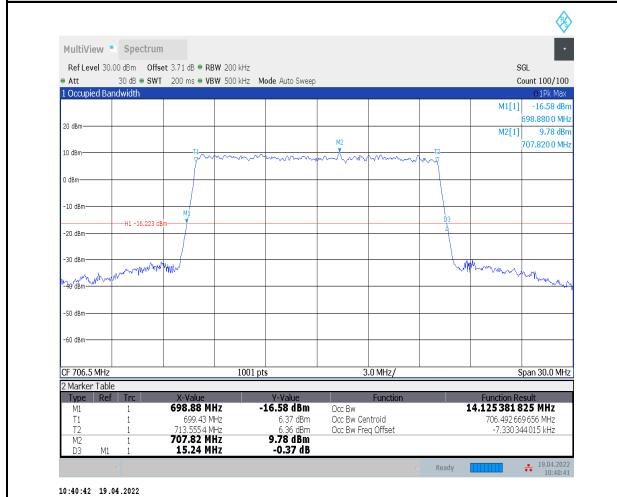
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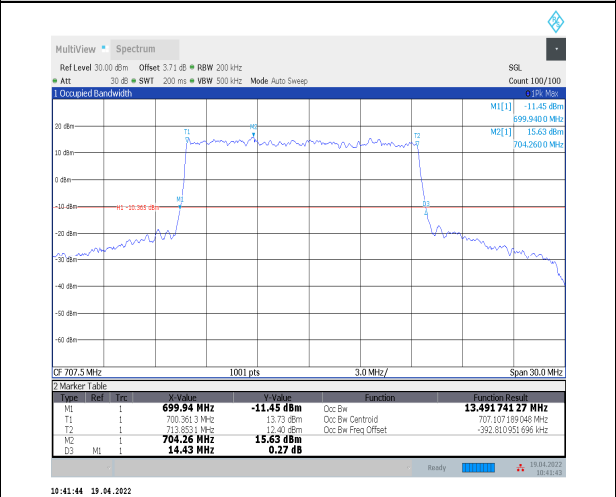
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-14.096-15.090≤15-PASS



1-N12--15-15-L-8-CP-64QAM-Outer_Full-79@0-Ant
0-14.135-15.180≤15-PASS



1-N12--15-15-L-9-CP-256QAM-Outer_Full-79@0-Ant
0-14.125-15.240≤15-PASS



1-N12--15-15-M-1-DFT-QPSK-Outer_Full-75@0-Ant
0-13.492-14.430≤15-PASS



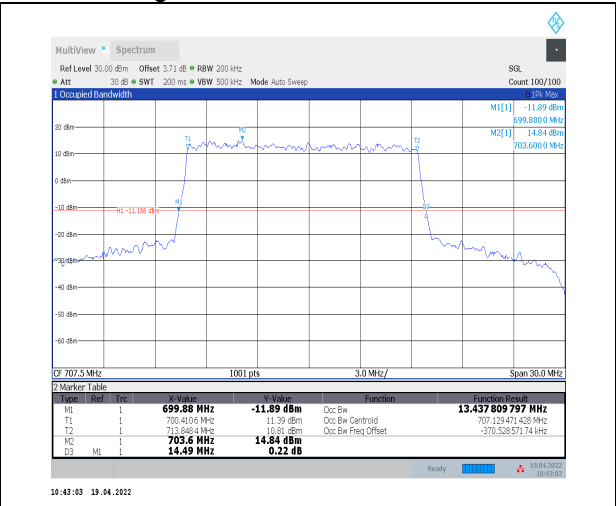
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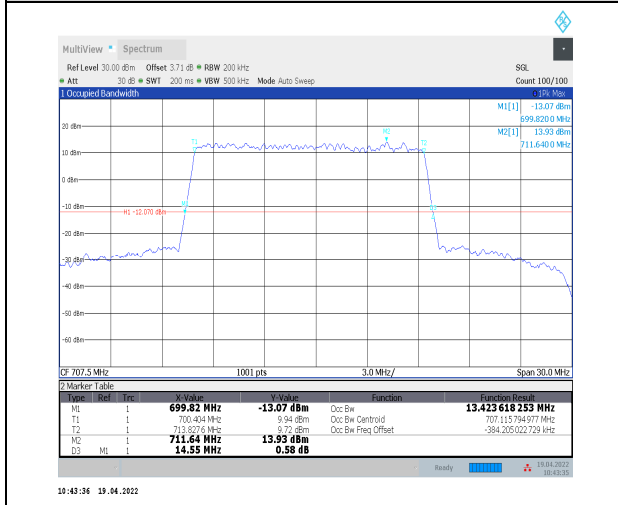
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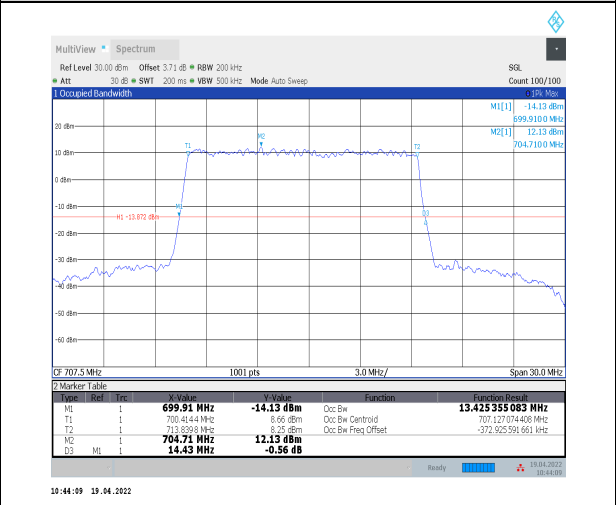
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1-N12--15-15-M-3-DFT-16QAM-Outer_Full-75@0-Ant0-13.438-14.490-≤15-PASS



1-N12--15-15-M-4-DFT-64QAM-Outer_Full-75@0-Ant0-13.424-14.550-≤15-PASS



1-N12--15-15-M-5-DFT-256QAM-Outer_Full-75@0-Ant0-13.425-14.430-≤15-PASS

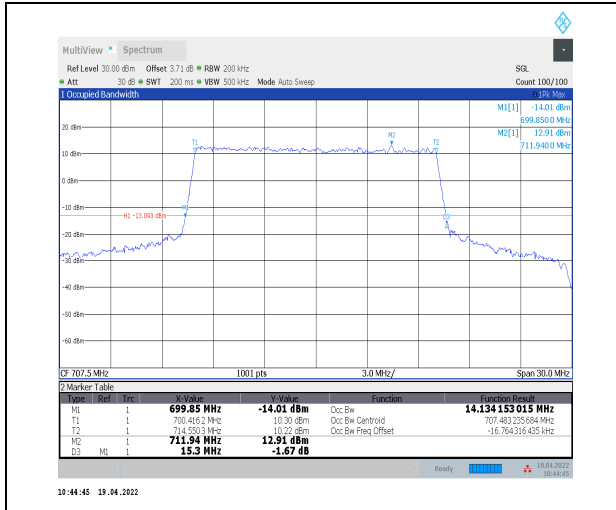


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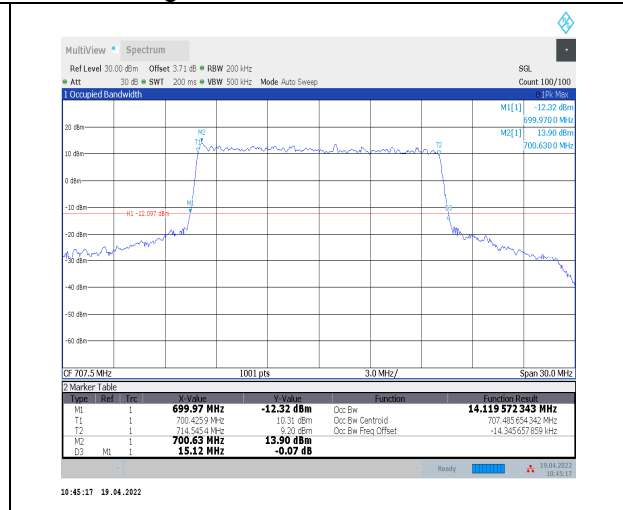
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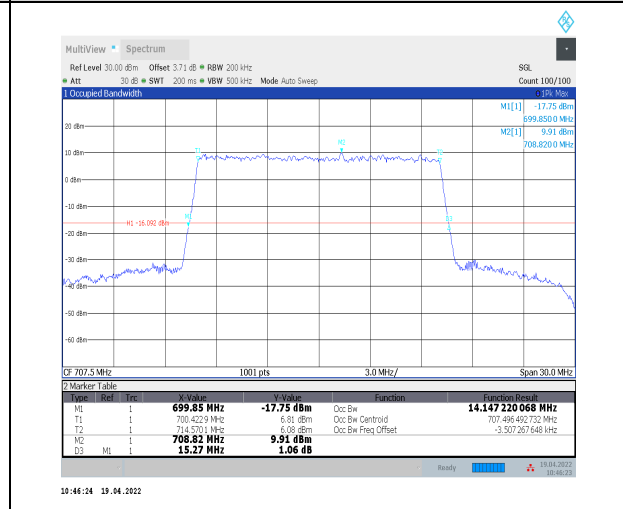
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1-N12--15-15-M-7-CP-16QAM-Outer_Full-79@0-Ant0-0-14.12-15.120-≤15-PASS



1-N12--15-15-M-8-CP-64QAM-Outer_Full-79@0-Ant0-0-14.158-15.210-≤15-PASS



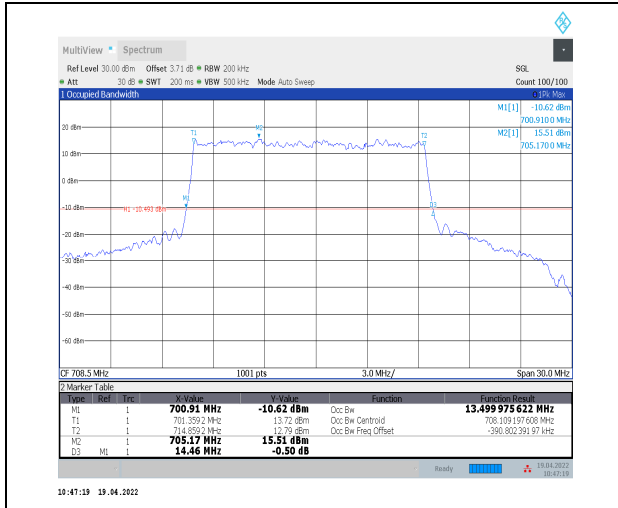
1-N12--15-15-M-9-CP-256QAM-Outer_Full-79@0-Ant0-0-14.147-15.270-≤15-PASS



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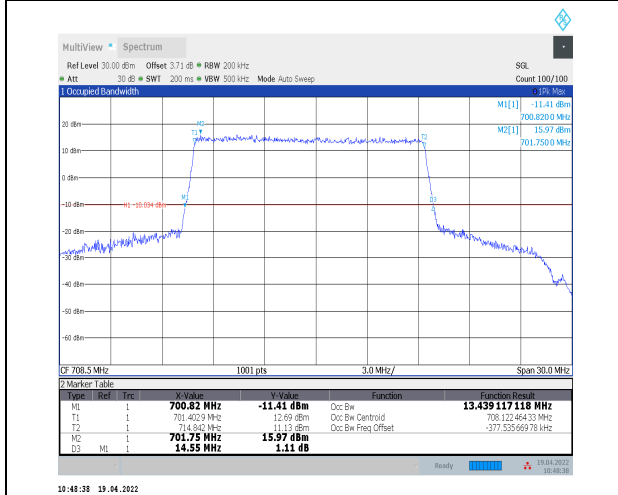
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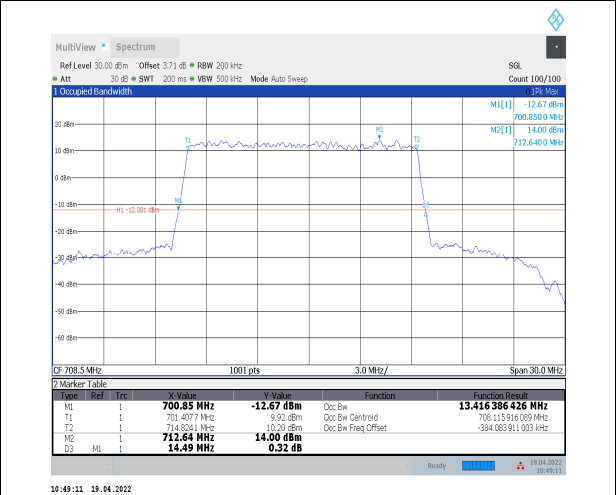
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0-13.5-14.460≤15-PASS



1-N12--15-15-H-2-DFT-PI2BPSK-Outer_Full-75@0-
Ant0-13.425-14.340≤15-PASS



1-N12--15-15-H-3-DFT-16QAM-Outer_Full-75@0-An
t0-13.439-14.550≤15-PASS



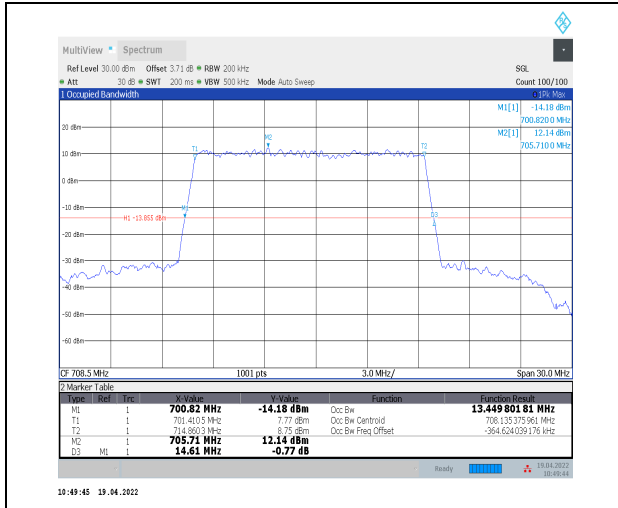
1-N12--15-15-H-4-DFT-64QAM-Outer_Full-75@0-An
t0-13.416-14.490≤15-PASS



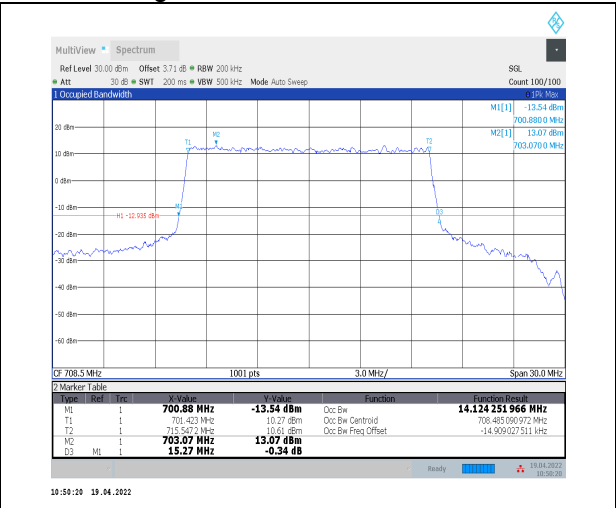
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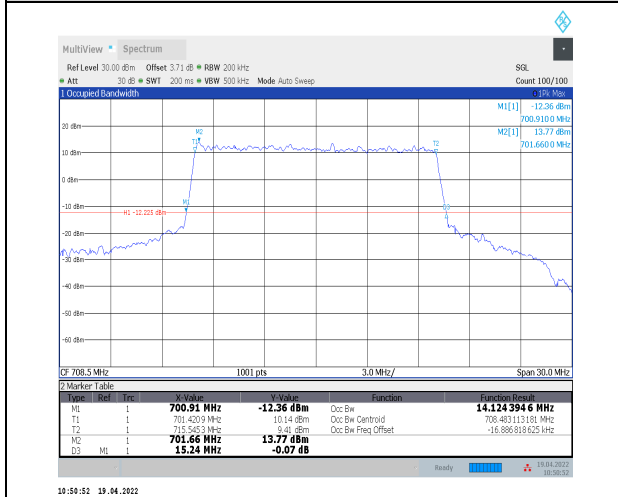
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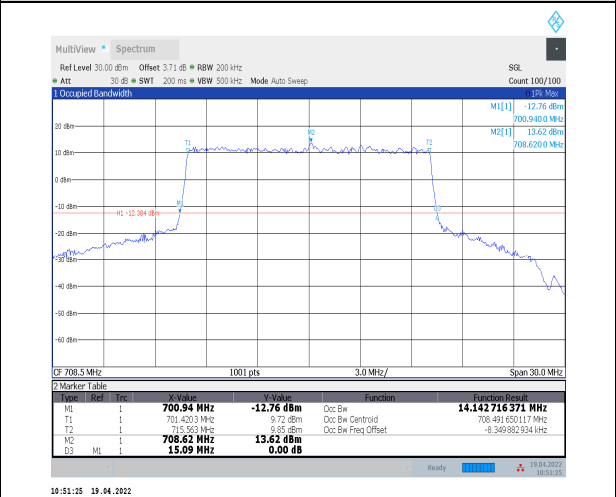
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nt0-13.45-14.610-<=15-PASS



1-N12--15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant0-
14.124-15.270-<=15-PASS



1-N12--15-15-H-7-CP-16QAM-Outer_Full-79@0-Ant
0-14.124-15.240-<=15-PASS



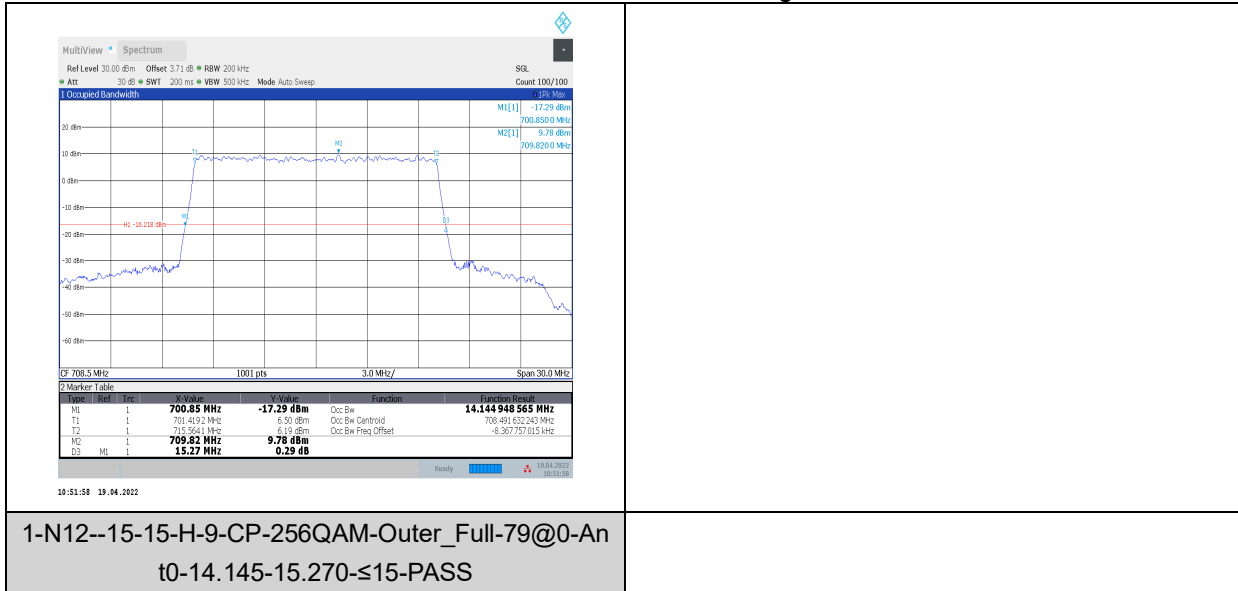
1-N12--15-15-H-8-CP-64QAM-Outer_Full-79@0-Ant
0-14.143-15.090-<=15-PASS



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1-N12--15-15-H-9-CP-256QAM-Outer_Full-79@0-An
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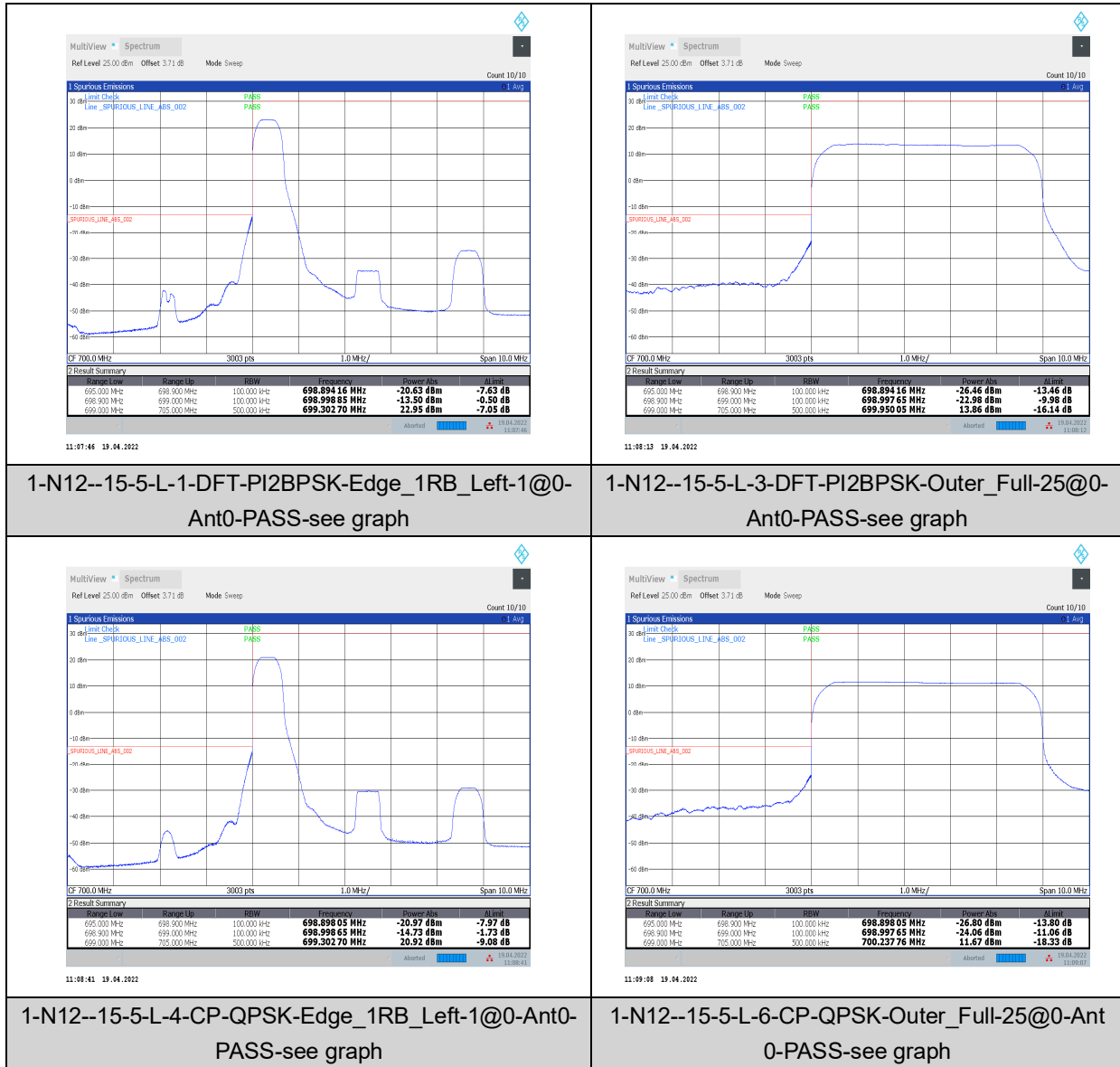
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Band Edge for SA

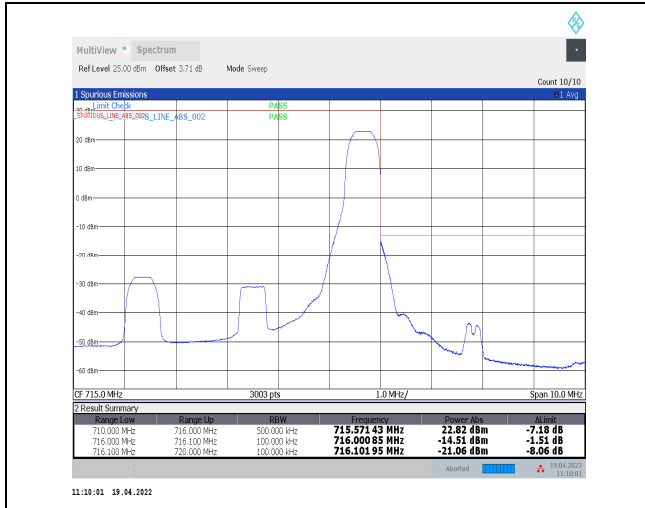
Test Graphs



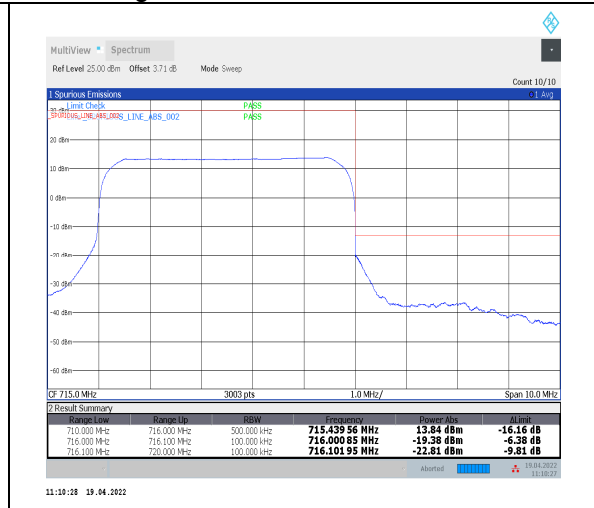
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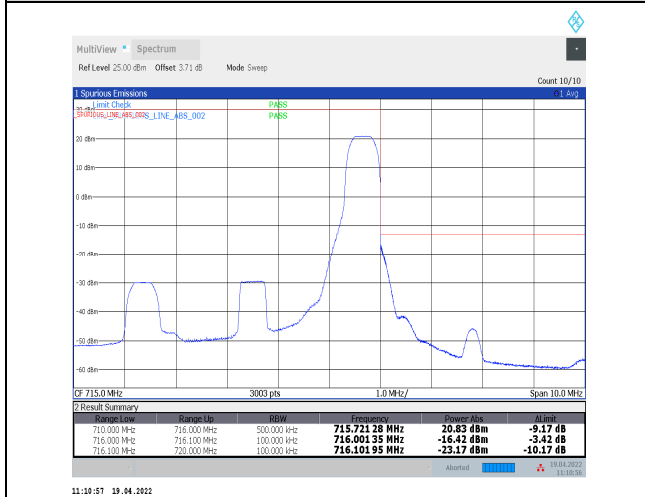
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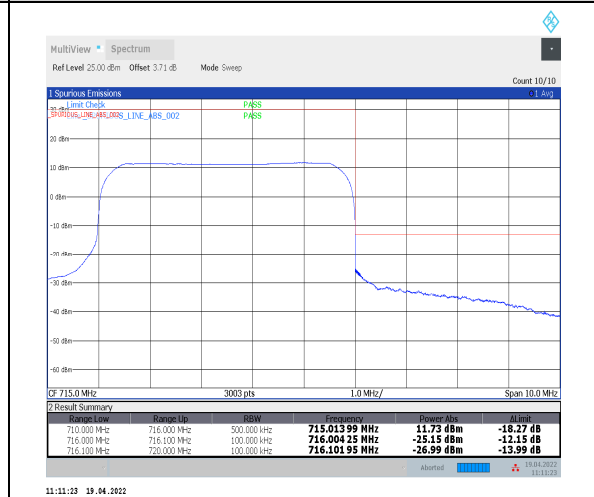
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4-Ant0-PASS-see graph



1-N12--15-5-H-3-DFT-PI2BPSK-Outer_Full-25@0
-Ant0-PASS-see graph



1-N12--15-5-H-5-CP-QPSK-Edge_1RB_Right-1@24-A
nt0-PASS-see graph



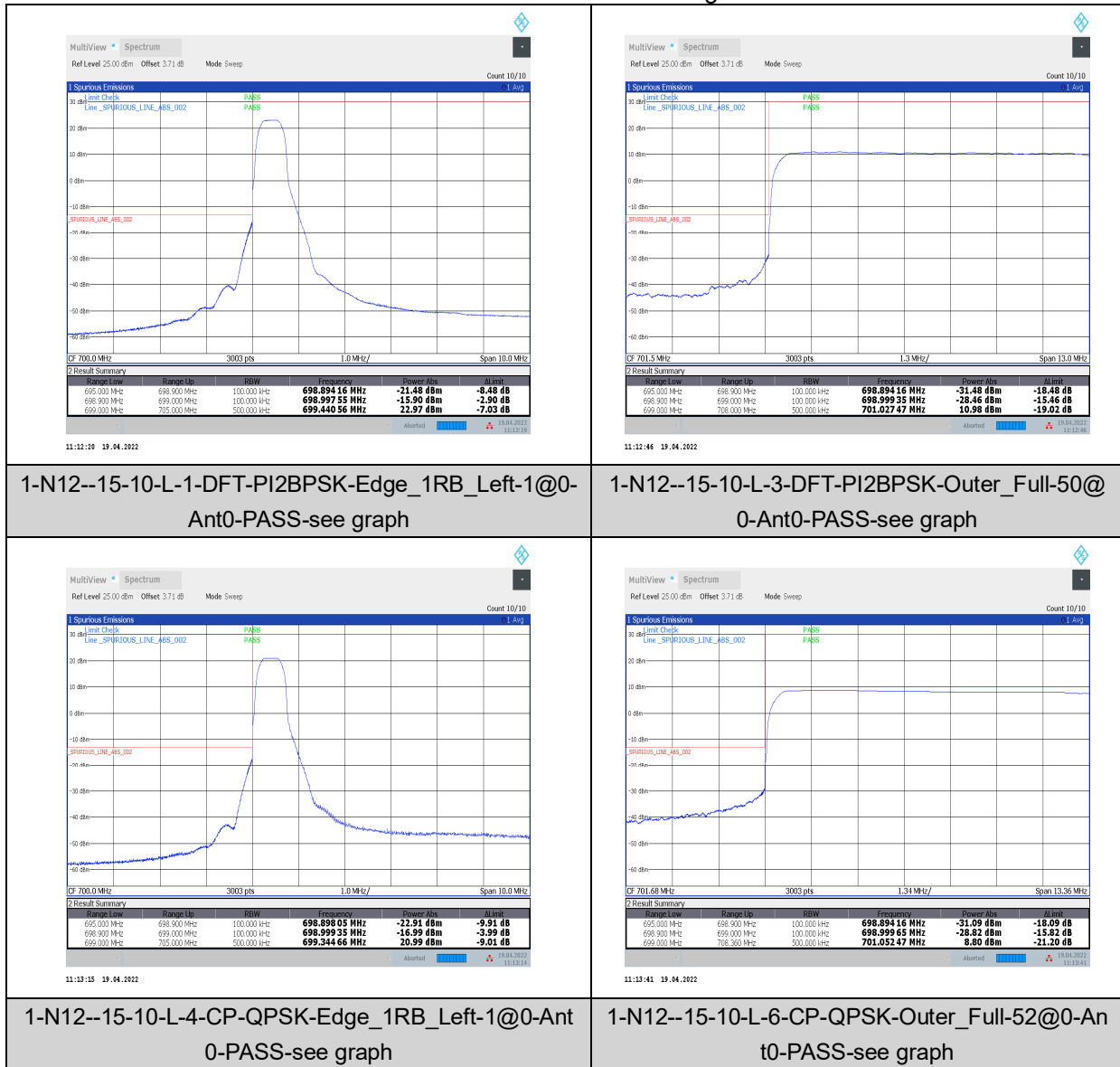
1-N12--15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant
0-PASS-see graph



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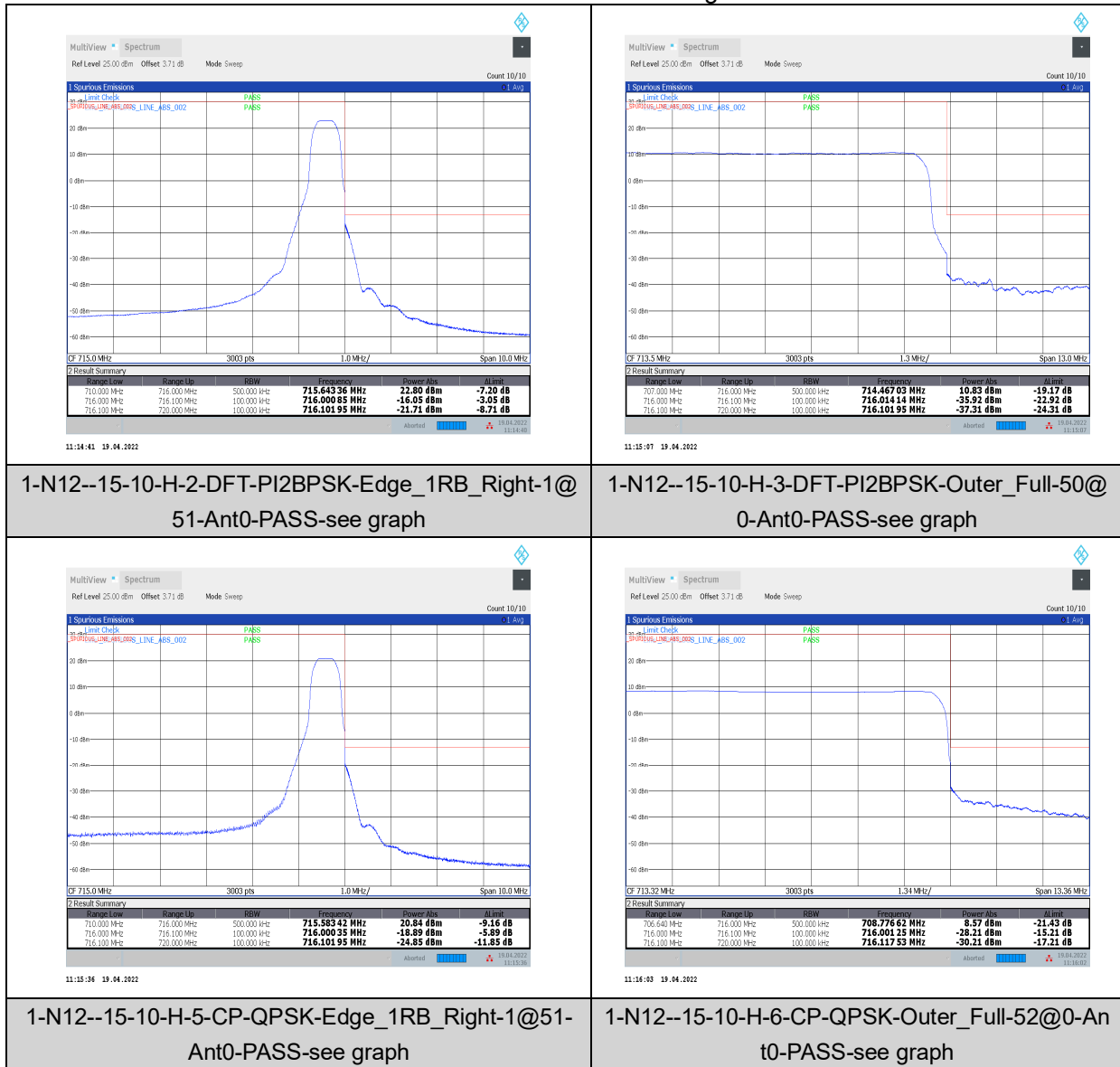
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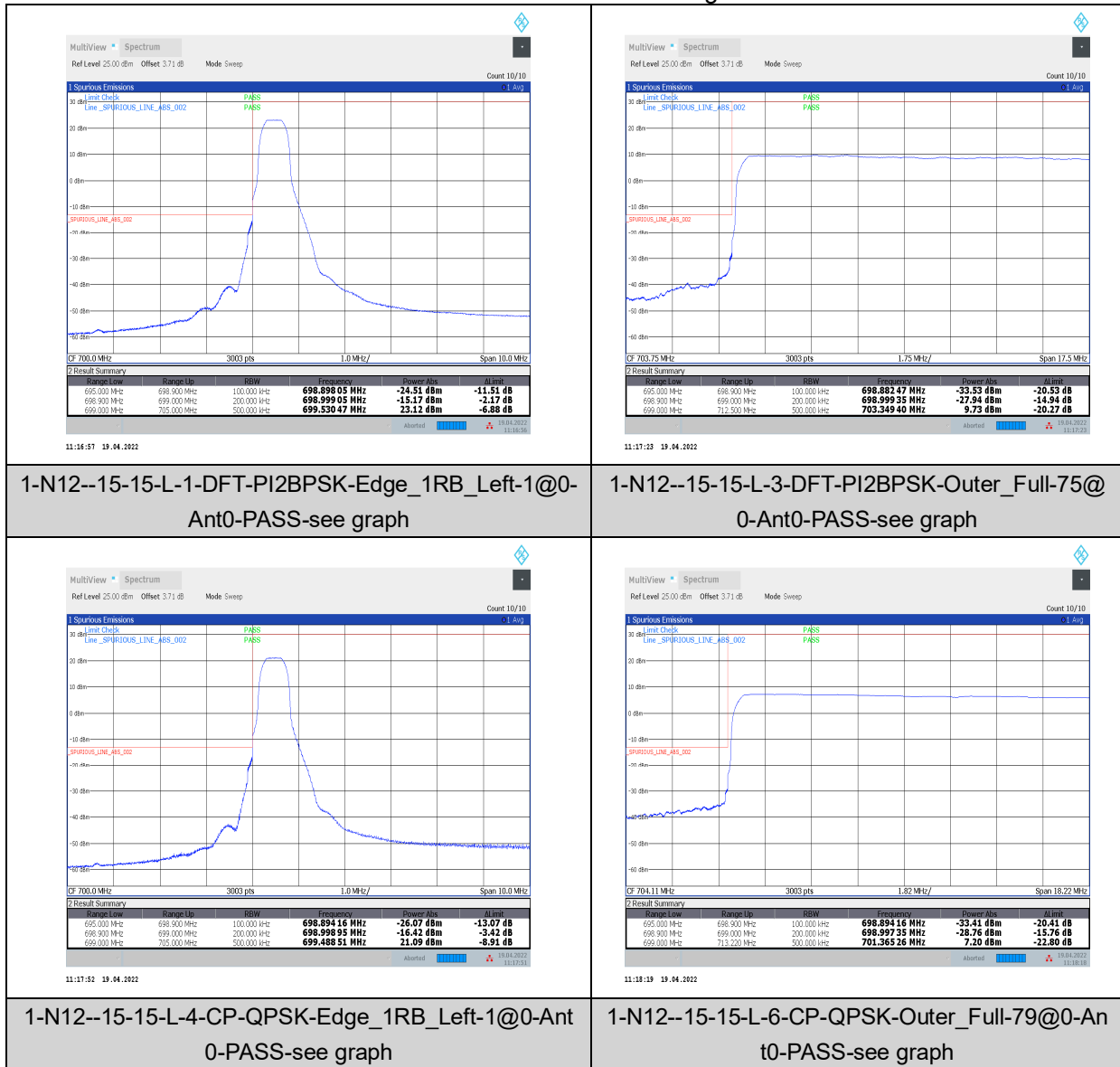
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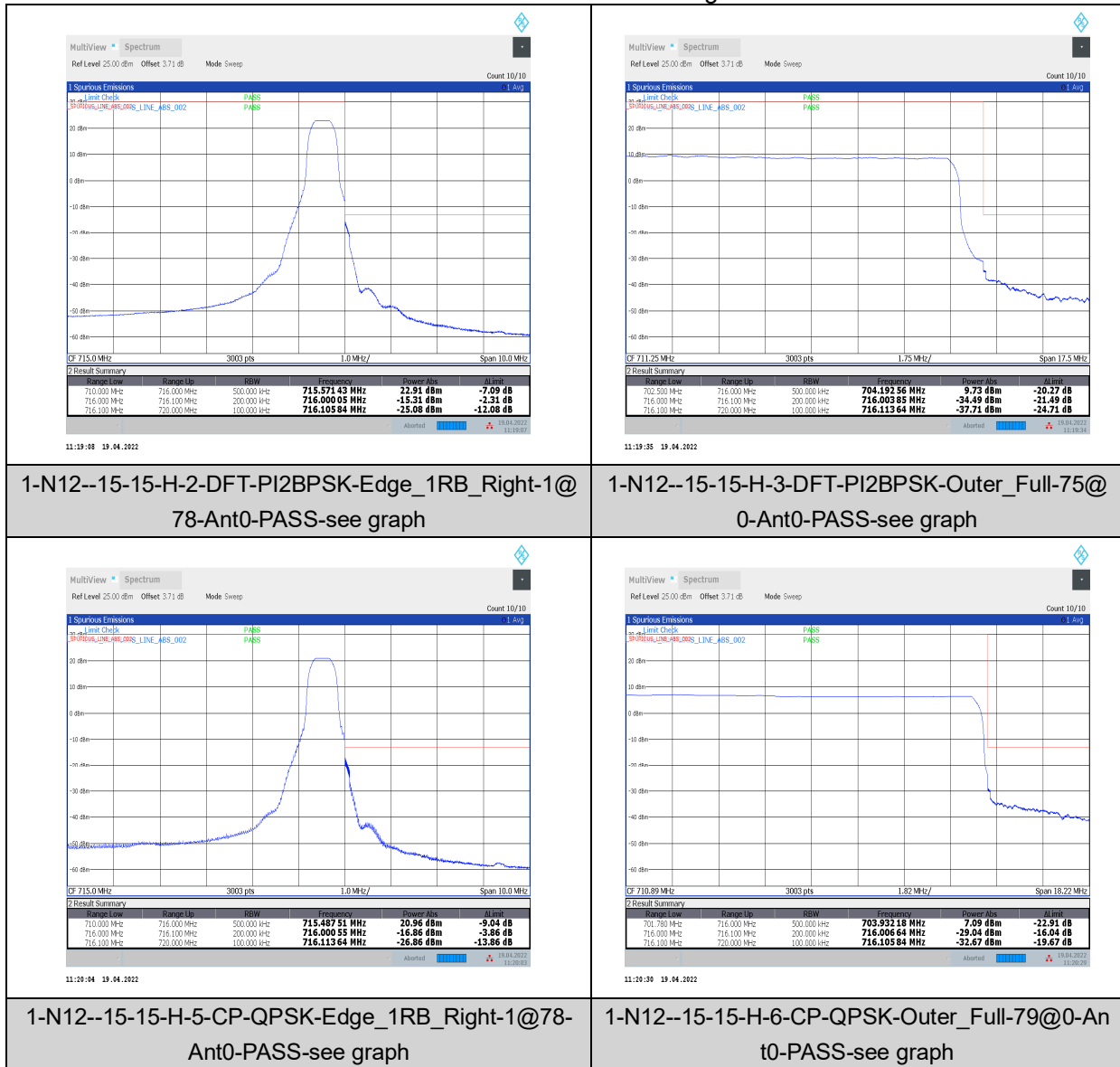
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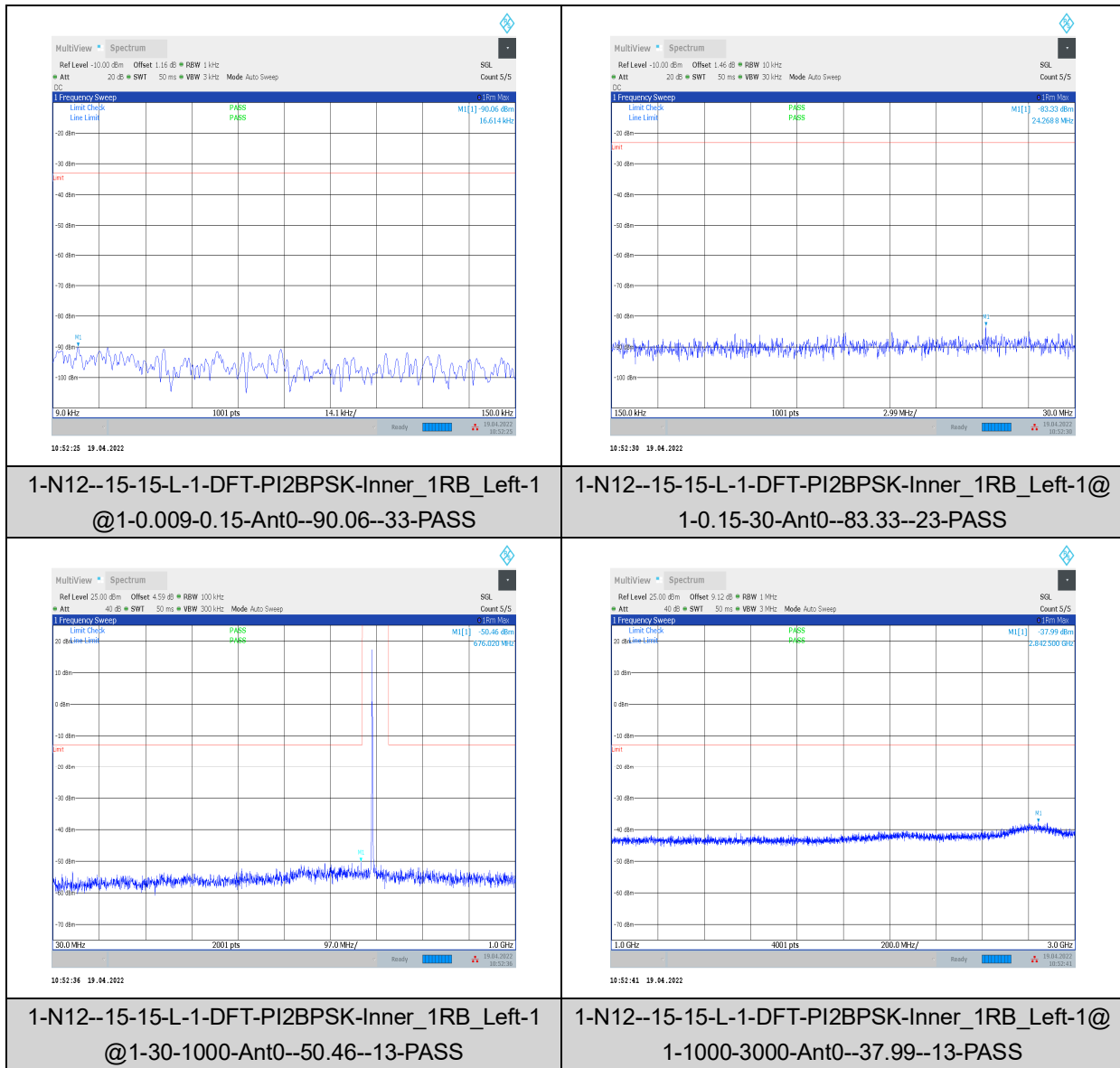
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Conducted Spurious Emission for SA

Test Graphs



1-N12--15-15-L-1-DFT-PI2BPSK-Inner_1RB_Left-1 @1-0.009-0.15-Ant0--90.06--33-PASS

1-N12--15-15-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@ 1-0.15-30-Ant0--83.33--23-PASS

1-N12--15-15-L-1-DFT-PI2BPSK-Inner_1RB_Left-1 @1-30-1000-Ant0--50.46--13-PASS

1-N12--15-15-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@ 1-1000-3000-Ant0--37.99--13-PASS

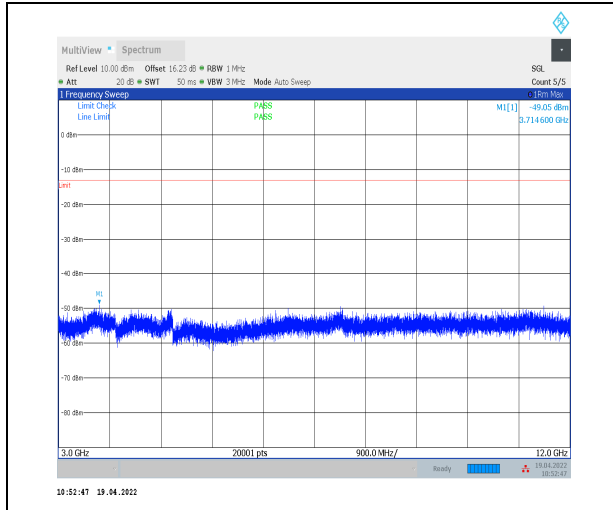


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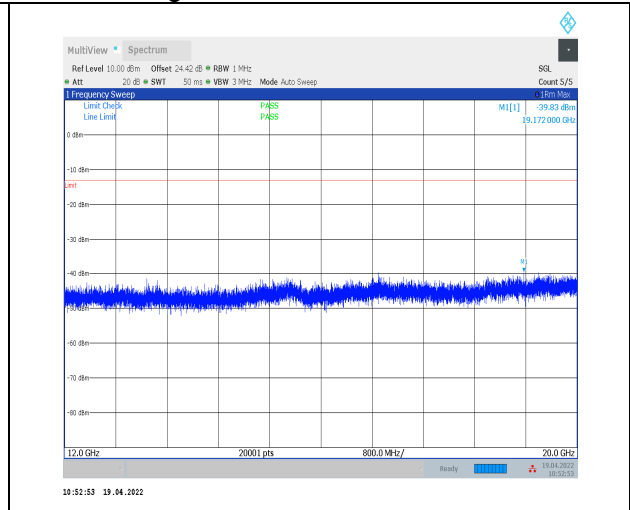
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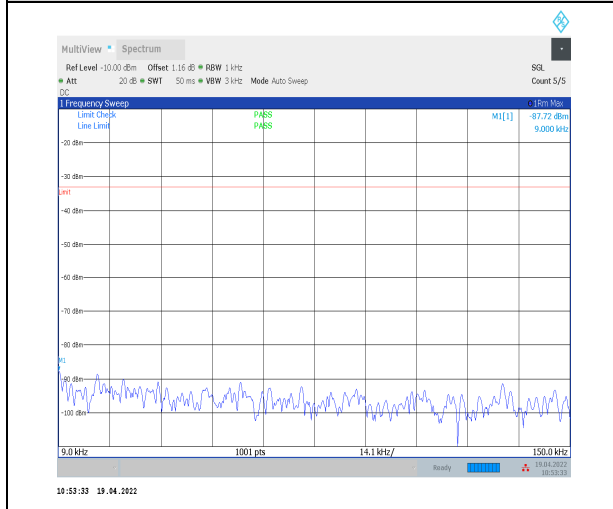
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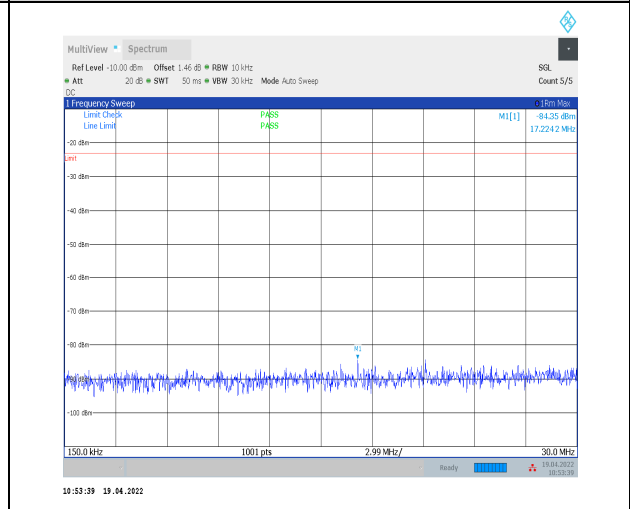
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1-12000-20000-Ant0--39.83--13-PASS



1-N12--15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1
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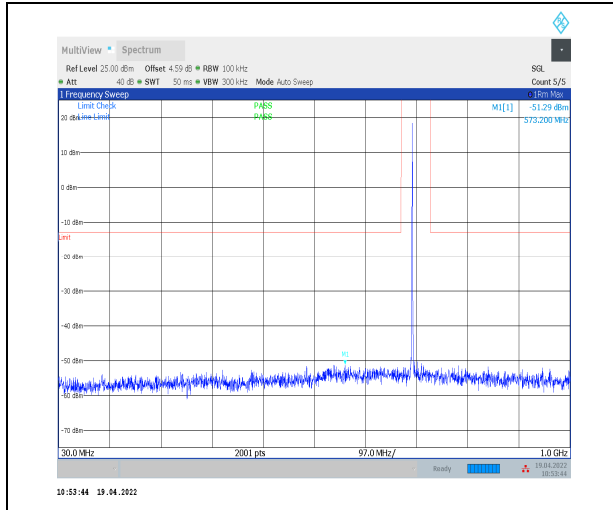


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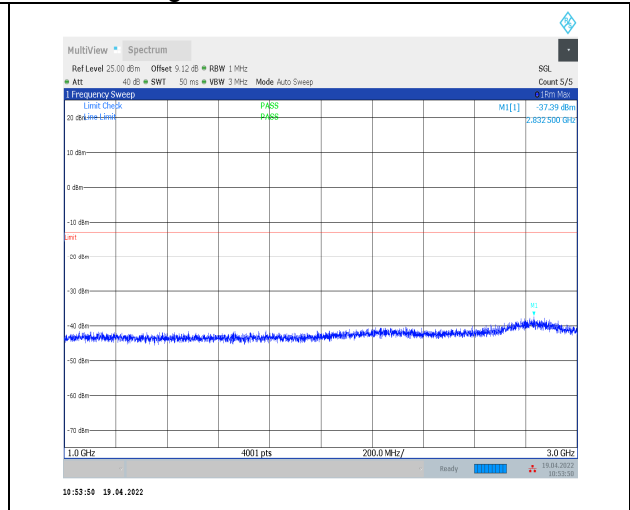


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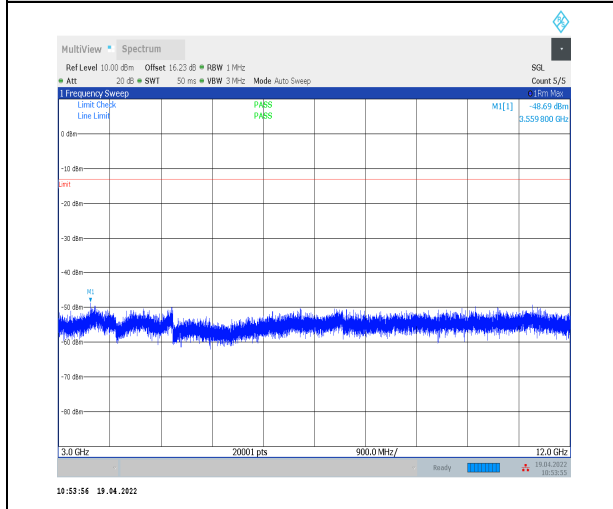
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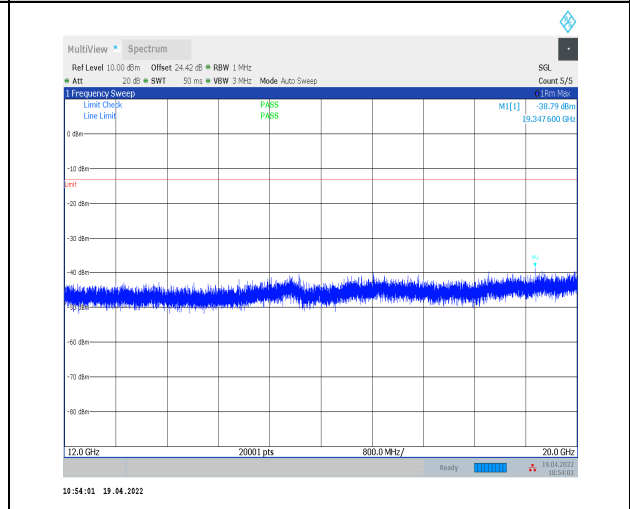
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@1-30-1000-Ant0--51.29--13-PASS



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@1-1000-3000-Ant0--37.39--13-PASS



1-N12--15-15-M-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-3000-12000-Ant0--48.69--13-PASS

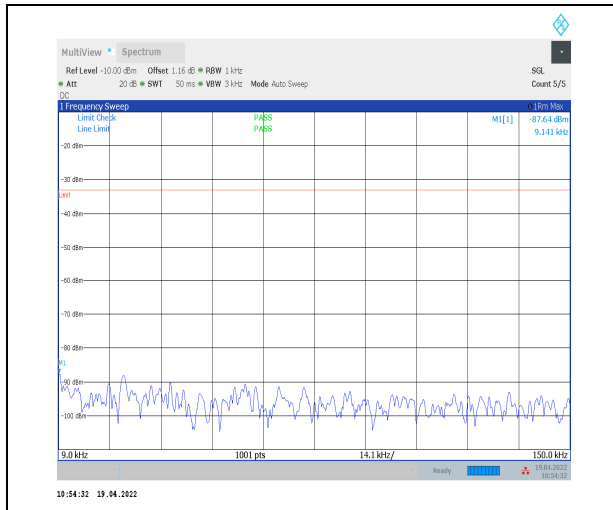


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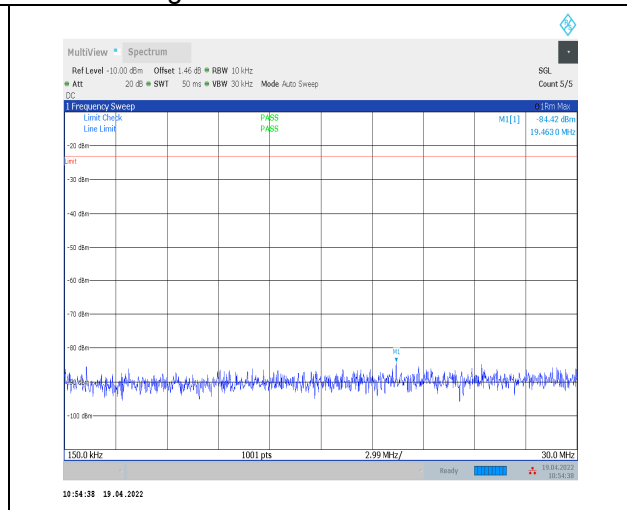


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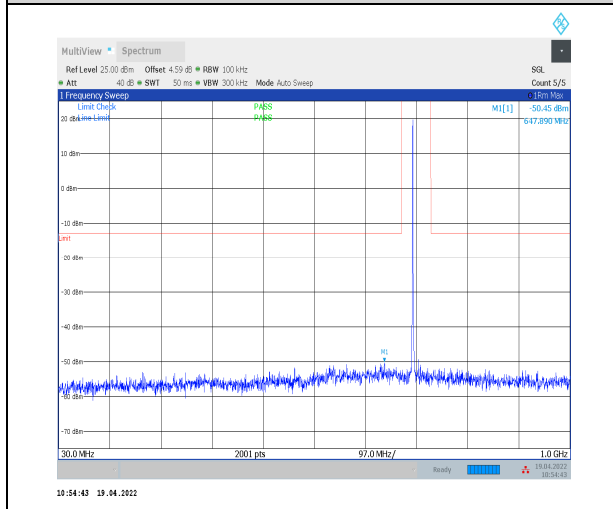
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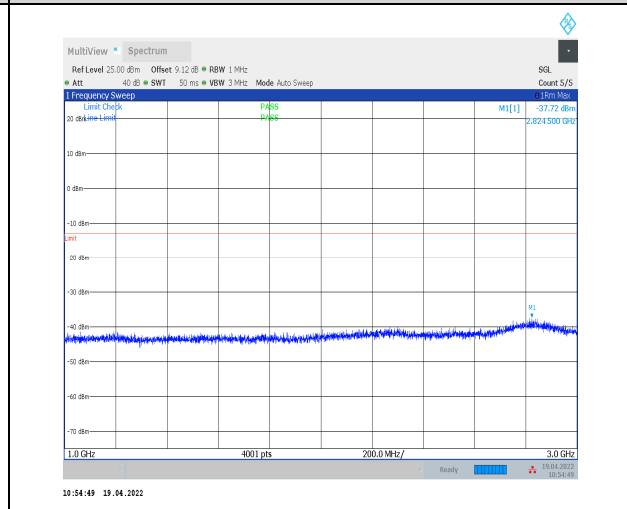
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@1-0.009-0.15-Ant0--87.64--33-PASS



1-N12--15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-0.15-30-Ant0--84.42--23-PASS



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@1-30-1000-Ant0--50.45--13-PASS



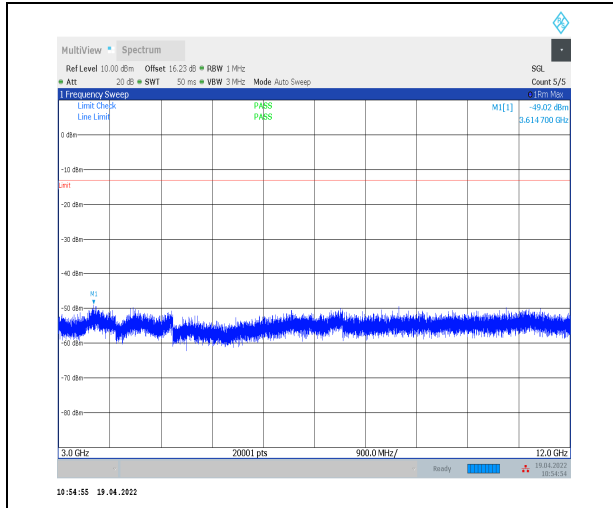
1-N12--15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-1000-3000-Ant0--37.72--13-PASS



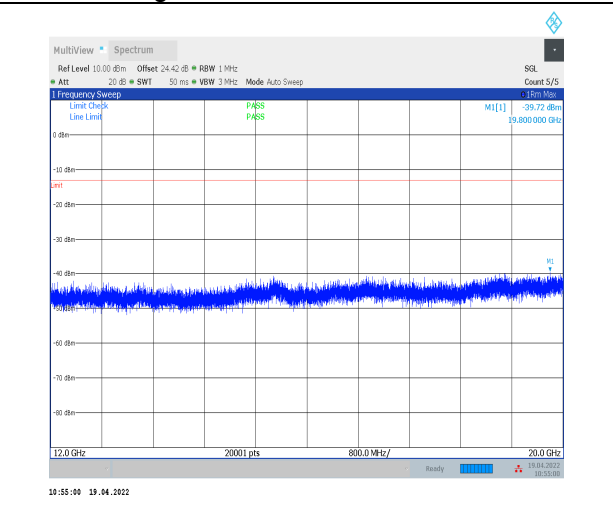
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1-N12--15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-3000-12000-Ant0--49.02--13-PASS



1-N12--15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1
@1-12000-20000-Ant0--39.72--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 12_ TM1

Test Channel = Low Channel

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1399.68 | 53.45 | -118.59 | -65.14 | -13.00 | 52.14 | 263 | 357 | Horizontal |
| 2 | 2099.52 | 53.42 | -116.04 | -62.62 | -13.00 | 49.62 | 251 | 175 | Horizontal |
| 3 | 2799.36 | 51.05 | -113.02 | -61.97 | -13.00 | 48.97 | 175 | 357 | Horizontal |
| 4 | 3499.2 | 50.03 | -111.91 | -61.88 | -13.00 | 48.88 | 265 | 175 | Horizontal |
| 5 | 4199.04 | 48.48 | -109.45 | -60.97 | -13.00 | 47.97 | 284 | 298 | Horizontal |
| 6 | 4898.88 | 50.83 | -108.05 | -57.22 | -13.00 | 44.22 | 144 | 50 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1399.68 | 53.41 | -118.59 | -65.18 | -13.00 | 52.18 | 263 | 76 | Vertical |
| 2 | 2099.52 | 51.49 | -116.04 | -64.55 | -13.00 | 51.55 | 241 | 278 | Vertical |
| 3 | 2799.36 | 51.87 | -113.02 | -61.15 | -13.00 | 48.15 | 176 | 123 | Vertical |
| 4 | 3499.2 | 51.64 | -111.91 | -60.27 | -13.00 | 47.27 | 284 | 360 | Vertical |
| 5 | 4199.04 | 48.53 | -109.45 | -60.92 | -13.00 | 47.92 | 166 | 310 | Vertical |
| 6 | 4898.88 | 51.48 | -108.05 | -56.57 | -13.00 | 43.57 | 324 | 295 | Vertical |



Test Band = SA Band 12_ TM1

Test Channel = Mid Channel

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1401.68 | 51.71 | -118.58 | -66.87 | -13.00 | 53.87 | 251 | 112 | Horizontal |
| 2 | 2102.52 | 52.40 | -116.03 | -63.63 | -13.00 | 50.63 | 142 | 86 | Horizontal |
| 3 | 2803.36 | 50.41 | -113.01 | -62.60 | -13.00 | 49.60 | 262 | 33 | Horizontal |
| 4 | 3504.2 | 51.90 | -111.89 | -59.99 | -13.00 | 46.99 | 284 | 96 | Horizontal |
| 5 | 4205.04 | 48.71 | -109.44 | -60.73 | -13.00 | 47.73 | 176 | 55 | Horizontal |
| 6 | 4905.88 | 49.83 | -108.03 | -58.20 | -13.00 | 45.20 | 265 | 127 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1401.68 | 52.26 | -118.58 | -66.32 | -13.00 | 53.32 | 263 | 155 | Vertical |
| 2 | 2102.52 | 52.84 | -116.03 | -63.19 | -13.00 | 50.19 | 251 | 314 | Vertical |
| 3 | 2803.36 | 51.80 | -113.01 | -61.21 | -13.00 | 48.21 | 174 | 353 | Vertical |
| 4 | 3504.2 | 50.49 | -111.89 | -61.40 | -13.00 | 48.40 | 286 | 62 | Vertical |
| 5 | 4205.04 | 49.27 | -109.44 | -60.17 | -13.00 | 47.17 | 264 | 187 | Vertical |
| 6 | 4905.88 | 51.04 | -108.03 | -56.99 | -13.00 | 43.99 | 144 | 283 | Vertical |



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Test Band = SA Band 12_ TM1

Test Channel = High Channel

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1403.5556 | 63.64 | -118.58 | -54.94 | -13.00 | 41.94 | 263 | 357 | Horizontal |
| 2 | 2104.4444 | 79.39 | -116.02 | -36.63 | -13.00 | 23.63 | 251 | 313 | Horizontal |
| 3 | 2807.36 | 51.73 | -113.00 | -61.27 | -13.00 | 48.27 | 174 | 76 | Horizontal |
| 4 | 3509.2 | 50.50 | -111.88 | -61.38 | -13.00 | 48.38 | 286 | 0 | Horizontal |
| 5 | 4211.04 | 48.86 | -109.43 | -60.57 | -13.00 | 47.57 | 264 | 266 | Horizontal |
| 6 | 4912.88 | 49.67 | -108.00 | -58.33 | -13.00 | 45.33 | 188 | 156 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1403.68 | 52.88 | -118.58 | -65.70 | -13.00 | 52.70 | 142 | 313 | Vertical |
| 2 | 2105.52 | 53.05 | -116.02 | -62.97 | -13.00 | 49.97 | 263 | 360 | Vertical |
| 3 | 2807.36 | 51.29 | -113.00 | -61.71 | -13.00 | 48.71 | 284 | 187 | Vertical |
| 4 | 3509.2 | 50.89 | -111.88 | -60.99 | -13.00 | 47.99 | 176 | 218 | Vertical |
| 5 | 4211.04 | 48.07 | -109.43 | -61.36 | -13.00 | 48.36 | 264 | 360 | Vertical |
| 6 | 4912.88 | 50.35 | -108.00 | -57.65 | -13.00 | 44.65 | 188 | 77 | Vertical |



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

| Voltage | | | | | | | | | | |
|---------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | VH | NT | -1.600000 | -0.002261 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | VN | NT | -3.000000 | -0.004240 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | VL | NT | -2.800000 | -0.003958 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | VH | NT | 1.400000 | 0.001979 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | VN | NT | -0.700000 | -0.000989 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | VL | NT | -0.500000 | -0.000707 | PASS |



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Frequency Error VS. Temperature

| Temperature | | | | | | | | | | |
|-------------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | -30 | -1.500000 | -0.002120 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | -20 | -2.400000 | -0.003392 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | -10 | -1.300000 | -0.001837 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | 0 | -0.800000 | -0.001131 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | 10 | -2.800000 | -0.003958 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | 20 | -1.400000 | -0.001979 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | 30 | -3.100000 | -0.004382 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | 40 | -2.400000 | -0.003392 | PASS |
| N12 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | NV | 50 | -1.800000 | -0.002544 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | -30 | -0.100000 | -0.000141 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | -20 | -1.100000 | -0.001555 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | -10 | -0.900000 | -0.001272 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 0 | 0.200000 | 0.000283 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 10 | -0.800000 | -0.001131 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 20 | -1.000000 | -0.001413 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 30 | -0.600000 | -0.000848 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 40 | 0.000000 | 0.000000 | PASS |
| N12 | 15 | 15 | CP-QPSK | M | Outer_Full | NV | 50 | -0.200000 | -0.000283 | PASS |

---End of Attachment---



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