

Report No.: SEWM2305000166RG02

Rev.: 01

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Appendix B.22

NR Band n5



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Ant41:

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Power (dBm) | ERP (dBm) | Limit (dBm) | Verdict |
|------|-----|-----------|-------------|---------|-----------------|-------------|-----------|-------------|---------|
| N5 | 15 | 5 | DFT-PI2BPSK | L | Inner_1RB_Left | 22.9 | 15.01 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-PI2BPSK | L | Inner_1RB_Right | 22.8 | 14.91 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-PI2BPSK | L | Outer_Full | 22.41 | 14.52 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-QPSK | L | Inner_1RB_Left | 23.07 | 15.18 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-QPSK | L | Inner_1RB_Right | 22.79 | 14.9 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-QPSK | L | Outer_Full | 21.88 | 13.99 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-16QAM | L | Inner_1RB_Left | 22.21 | 14.32 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-16QAM | L | Inner_1RB_Right | 22.08 | 14.19 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-16QAM | L | Outer_Full | 21.09 | 13.2 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-64QAM | L | Inner_1RB_Left | 20.71 | 12.82 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-64QAM | L | Inner_1RB_Right | 20.55 | 12.66 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-64QAM | L | Outer_Full | 20.53 | 12.64 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-256QAM | L | Inner_1RB_Left | 18.76 | 10.87 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-256QAM | L | Inner_1RB_Right | 18.73 | 10.84 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-256QAM | L | Outer_Full | 18.49 | 10.6 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-PI2BPSK | M | Inner_1RB_Left | 23.34 | 15.45 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-PI2BPSK | M | Inner_1RB_Right | 23.76 | 15.87 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-PI2BPSK | M | Outer_Full | 23.05 | 15.16 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-QPSK | M | Inner_1RB_Left | 23.57 | 15.68 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-QPSK | M | Inner_1RB_Right | 23.96 | 16.07 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-QPSK | M | Outer_Full | 22.62 | 14.73 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-16QAM | M | Inner_1RB_Left | 22.71 | 14.82 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-16QAM | M | Inner_1RB_Right | 23.15 | 15.26 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-16QAM | M | Outer_Full | 21.76 | 13.87 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-64QAM | M | Inner_1RB_Left | 21.08 | 13.19 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-64QAM | M | Inner_1RB_Right | 21.6 | 13.71 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-64QAM | M | Outer_Full | 21.27 | 13.38 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-256QAM | M | Inner_1RB_Left | 18.89 | 11 | 38.45 | PASS |



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| | | | | | | | | | |
|----|----|----|-------------|---|-----------------|-------|-------|-------|------|
| N5 | 15 | 5 | DFT-256QAM | M | Inner_1RB_Right | 18.74 | 10.85 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-256QAM | M | Outer_Full | 18.56 | 10.67 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-PI2BPSK | H | Inner_1RB_Left | 24.07 | 16.18 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-PI2BPSK | H | Inner_1RB_Right | 23.87 | 15.98 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-PI2BPSK | H | Outer_Full | 23.52 | 15.63 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-QPSK | H | Inner_1RB_Left | 24.26 | 16.37 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-QPSK | H | Inner_1RB_Right | 24.17 | 16.28 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-QPSK | H | Outer_Full | 23.08 | 15.19 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-16QAM | H | Inner_1RB_Left | 23.36 | 15.47 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-16QAM | H | Inner_1RB_Right | 23.19 | 15.3 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-16QAM | H | Outer_Full | 22.26 | 14.37 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-64QAM | H | Inner_1RB_Left | 21.77 | 13.88 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-64QAM | H | Inner_1RB_Right | 21.62 | 13.73 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-64QAM | H | Outer_Full | 21.68 | 13.79 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-256QAM | H | Inner_1RB_Left | 20 | 12.11 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-256QAM | H | Inner_1RB_Right | 19.85 | 11.96 | 38.45 | PASS |
| N5 | 15 | 5 | DFT-256QAM | H | Outer_Full | 19.72 | 11.83 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-PI2BPSK | L | Inner_1RB_Left | 22.7 | 14.81 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-PI2BPSK | L | Inner_1RB_Right | 23.11 | 15.22 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-PI2BPSK | L | Outer_Full | 22.39 | 14.5 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-QPSK | L | Inner_1RB_Left | 18.65 | 10.76 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-QPSK | L | Inner_1RB_Right | 23.27 | 15.38 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-QPSK | L | Outer_Full | 21.9 | 14.01 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-16QAM | L | Inner_1RB_Left | 22.03 | 14.14 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-16QAM | L | Inner_1RB_Right | 22.4 | 14.51 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-16QAM | L | Outer_Full | 20.99 | 13.1 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-64QAM | L | Inner_1RB_Left | 20.47 | 12.58 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-64QAM | L | Inner_1RB_Right | 20.67 | 12.78 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-64QAM | L | Outer_Full | 20.45 | 12.56 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-256QAM | L | Inner_1RB_Left | 18.66 | 10.77 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-256QAM | L | Inner_1RB_Right | 19 | 11.11 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-256QAM | L | Outer_Full | 18.52 | 10.63 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-PI2BPSK | M | Inner_1RB_Left | 22.98 | 15.09 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-PI2BPSK | M | Inner_1RB_Right | 23.87 | 15.98 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | 22.9 | 15.01 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-QPSK | M | Inner_1RB_Left | 23.07 | 15.18 | 38.45 | PASS |



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|----|----|----|-------------|---|-----------------|-------|-------|-------|------|
| N5 | 15 | 10 | DFT-QPSK | M | Inner_1RB_Right | 23.84 | 15.95 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-QPSK | M | Outer_Full | 22.48 | 14.59 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-16QAM | M | Inner_1RB_Left | 22.29 | 14.4 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-16QAM | M | Inner_1RB_Right | 23.05 | 15.16 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-16QAM | M | Outer_Full | 21.66 | 13.77 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-64QAM | M | Inner_1RB_Left | 20.7 | 12.81 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-64QAM | M | Inner_1RB_Right | 21.6 | 13.71 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-64QAM | M | Outer_Full | 21.1 | 13.21 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-256QAM | M | Inner_1RB_Left | 19.74 | 11.85 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-256QAM | M | Inner_1RB_Right | 19.86 | 11.97 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-256QAM | M | Outer_Full | 19.08 | 11.19 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-PI2BPSK | H | Inner_1RB_Left | 23.76 | 15.87 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-PI2BPSK | H | Inner_1RB_Right | 23.71 | 15.82 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-PI2BPSK | H | Outer_Full | 23.46 | 15.57 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-QPSK | H | Inner_1RB_Left | 23.86 | 15.97 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-QPSK | H | Inner_1RB_Right | 23.95 | 16.06 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-QPSK | H | Outer_Full | 22.98 | 15.09 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-16QAM | H | Inner_1RB_Left | 23.06 | 15.17 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-16QAM | H | Inner_1RB_Right | 22.96 | 15.07 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-16QAM | H | Outer_Full | 22.1 | 14.21 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-64QAM | H | Inner_1RB_Left | 21.4 | 13.51 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-64QAM | H | Inner_1RB_Right | 21.38 | 13.49 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-64QAM | H | Outer_Full | 21.6 | 13.71 | 38.45 | PASS |
| N5 | 15 | 10 | DFT-256QAM | H | Outer_Full | 19.65 | 11.76 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-PI2BPSK | L | Inner_1RB_Left | 22.87 | 14.98 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-PI2BPSK | L | Inner_1RB_Right | 23.8 | 15.91 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-PI2BPSK | L | Outer_Full | 22.73 | 14.84 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-QPSK | L | Inner_1RB_Left | 22.98 | 15.09 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-QPSK | L | Inner_1RB_Right | 23.97 | 16.08 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-QPSK | L | Outer_Full | 22.27 | 14.38 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-16QAM | L | Inner_1RB_Left | 22.29 | 14.4 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-16QAM | L | Inner_1RB_Right | 22.95 | 15.06 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-16QAM | L | Outer_Full | 21.36 | 13.47 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-64QAM | L | Inner_1RB_Left | 20.49 | 12.6 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-64QAM | L | Inner_1RB_Right | 21.43 | 13.54 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-64QAM | L | Outer_Full | 20.86 | 12.97 | 38.45 | PASS |



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|----|----|----|-------------|---|-----------------|-------|-------|-------|------|
| N5 | 15 | 15 | DFT-256QAM | L | Inner_1RB_Left | 18.67 | 10.78 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-256QAM | L | Inner_1RB_Right | 19.61 | 11.72 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-256QAM | L | Outer_Full | 18.87 | 10.98 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-PI2BPSK | M | Inner_1RB_Left | 22.89 | 15 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-PI2BPSK | M | Inner_1RB_Right | 24.03 | 16.14 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | 23.06 | 15.17 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-QPSK | M | Inner_1RB_Left | 22.84 | 14.95 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-QPSK | M | Inner_1RB_Right | 24.08 | 16.19 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-QPSK | M | Outer_Full | 18.73 | 10.84 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-16QAM | M | Inner_1RB_Left | 22.07 | 14.18 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-16QAM | M | Inner_1RB_Right | 23.26 | 15.37 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-16QAM | M | Outer_Full | 21.75 | 13.86 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-64QAM | M | Inner_1RB_Left | 20.5 | 12.61 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-64QAM | M | Inner_1RB_Right | 21.68 | 13.79 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-64QAM | M | Outer_Full | 21.34 | 13.45 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-256QAM | M | Inner_1RB_Left | 18.7 | 10.81 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-256QAM | M | Inner_1RB_Right | 19.88 | 11.99 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-256QAM | M | Outer_Full | 19.26 | 11.37 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-PI2BPSK | H | Inner_1RB_Left | 23.32 | 15.43 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-PI2BPSK | H | Inner_1RB_Right | 23.89 | 16 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-PI2BPSK | H | Outer_Full | 23.45 | 15.56 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-QPSK | H | Inner_1RB_Left | 23.53 | 15.64 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-QPSK | H | Inner_1RB_Right | 23.87 | 15.98 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-QPSK | H | Outer_Full | 22.95 | 15.06 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-16QAM | H | Inner_1RB_Left | 22.67 | 14.78 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-16QAM | H | Inner_1RB_Right | 23.16 | 15.27 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-16QAM | H | Outer_Full | 22.17 | 14.28 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-64QAM | H | Inner_1RB_Left | 20.94 | 13.05 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-64QAM | H | Inner_1RB_Right | 21.55 | 13.66 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-64QAM | H | Outer_Full | 21.59 | 13.7 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-256QAM | H | Inner_1RB_Left | 19.16 | 11.27 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-256QAM | H | Inner_1RB_Right | 19.76 | 11.87 | 38.45 | PASS |
| N5 | 15 | 15 | DFT-256QAM | H | Outer_Full | 19.62 | 11.73 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-PI2BPSK | L | Inner_1RB_Left | 22.87 | 14.98 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-PI2BPSK | L | Inner_1RB_Right | 24.01 | 16.12 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-PI2BPSK | L | Outer_Full | 22.91 | 15.02 | 38.45 | PASS |



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|----|----|----|-------------|---|-----------------|-------|-------|-------|------|
| N5 | 15 | 20 | DFT-QPSK | L | Inner_1RB_Left | 22.85 | 14.96 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-QPSK | L | Inner_1RB_Right | 24.04 | 16.15 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-QPSK | L | Outer_Full | 22.41 | 14.52 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-16QAM | L | Inner_1RB_Left | 22.02 | 14.13 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-16QAM | L | Inner_1RB_Right | 23.24 | 15.35 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-16QAM | L | Outer_Full | 21.49 | 13.6 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-64QAM | L | Inner_1RB_Left | 20.45 | 12.56 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-64QAM | L | Inner_1RB_Right | 21.75 | 13.86 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-64QAM | L | Outer_Full | 21.05 | 13.16 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-256QAM | L | Inner_1RB_Right | 19.86 | 11.97 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-256QAM | L | Outer_Full | 19.11 | 11.22 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-PI2BPSK | M | Inner_1RB_Left | 22.77 | 14.88 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-PI2BPSK | M | Inner_1RB_Right | 23.96 | 16.07 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-PI2BPSK | M | Outer_Full | 23.03 | 15.14 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-QPSK | M | Inner_1RB_Left | 22.82 | 14.93 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-QPSK | M | Inner_1RB_Right | 24.12 | 16.23 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-QPSK | M | Outer_Full | 22.51 | 14.62 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-16QAM | M | Inner_1RB_Left | 21.96 | 14.07 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-16QAM | M | Inner_1RB_Right | 23.28 | 15.39 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-16QAM | M | Outer_Full | 21.76 | 13.87 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-64QAM | M | Inner_1RB_Left | 20.4 | 12.51 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-64QAM | M | Inner_1RB_Right | 21.64 | 13.75 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-64QAM | M | Outer_Full | 21.21 | 13.32 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-256QAM | M | Inner_1RB_Left | 18.59 | 10.7 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-256QAM | M | Inner_1RB_Right | 19.82 | 11.93 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-256QAM | M | Outer_Full | 19.24 | 11.35 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-PI2BPSK | H | Inner_1RB_Left | 22.84 | 14.95 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-PI2BPSK | H | Inner_1RB_Right | 23.83 | 15.94 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-PI2BPSK | H | Outer_Full | 23.12 | 15.23 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-QPSK | H | Inner_1RB_Left | 18.64 | 10.75 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-QPSK | H | Inner_1RB_Right | 24.08 | 16.19 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-QPSK | H | Outer_Full | 22.73 | 14.84 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-16QAM | H | Inner_1RB_Left | 22.06 | 14.17 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-16QAM | H | Inner_1RB_Right | 23.02 | 15.13 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-16QAM | H | Outer_Full | 21.87 | 13.98 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-64QAM | H | Inner_1RB_Left | 20.45 | 12.56 | 38.45 | PASS |



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| | | | | | | | | | |
|----|----|----|------------|---|-----------------|-------|-------|-------|------|
| N5 | 15 | 20 | DFT-64QAM | H | Inner_1RB_Right | 21.58 | 13.69 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-64QAM | H | Outer_Full | 21.29 | 13.4 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-256QAM | H | Inner_1RB_Left | 18.57 | 10.68 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-256QAM | H | Inner_1RB_Right | 19.71 | 11.82 | 38.45 | PASS |
| N5 | 15 | 20 | DFT-256QAM | H | Outer_Full | 19.31 | 11.42 | 38.45 | PASS |



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Peak-to-Average Ratio for SA

Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | DutyCycle | Factor | Result | Limit | Verdict |
|------|-----|-----------|------------|---------|------------|-----------|--------|--------|-------|---------|
| N5 | 15 | 20 | DFT-256QAM | L | Outer_Full | 100% | 0.00 | 8.66 | ≤13 | PASS |
| N5 | 15 | 20 | CP-256QAM | L | Outer_Full | 100% | 0.00 | 9.29 | ≤13 | PASS |
| N5 | 15 | 20 | DFT-256QAM | M | Outer_Full | 100% | 0.00 | 8.54 | ≤13 | PASS |
| N5 | 15 | 20 | CP-256QAM | M | Outer_Full | 100% | 0.00 | 9.27 | ≤13 | PASS |
| N5 | 15 | 20 | DFT-256QAM | H | Outer_Full | 100% | 0.00 | 8.76 | ≤13 | PASS |
| N5 | 15 | 20 | CP-256QAM | H | Outer_Full | 100% | 0.00 | 9.36 | ≤13 | PASS |



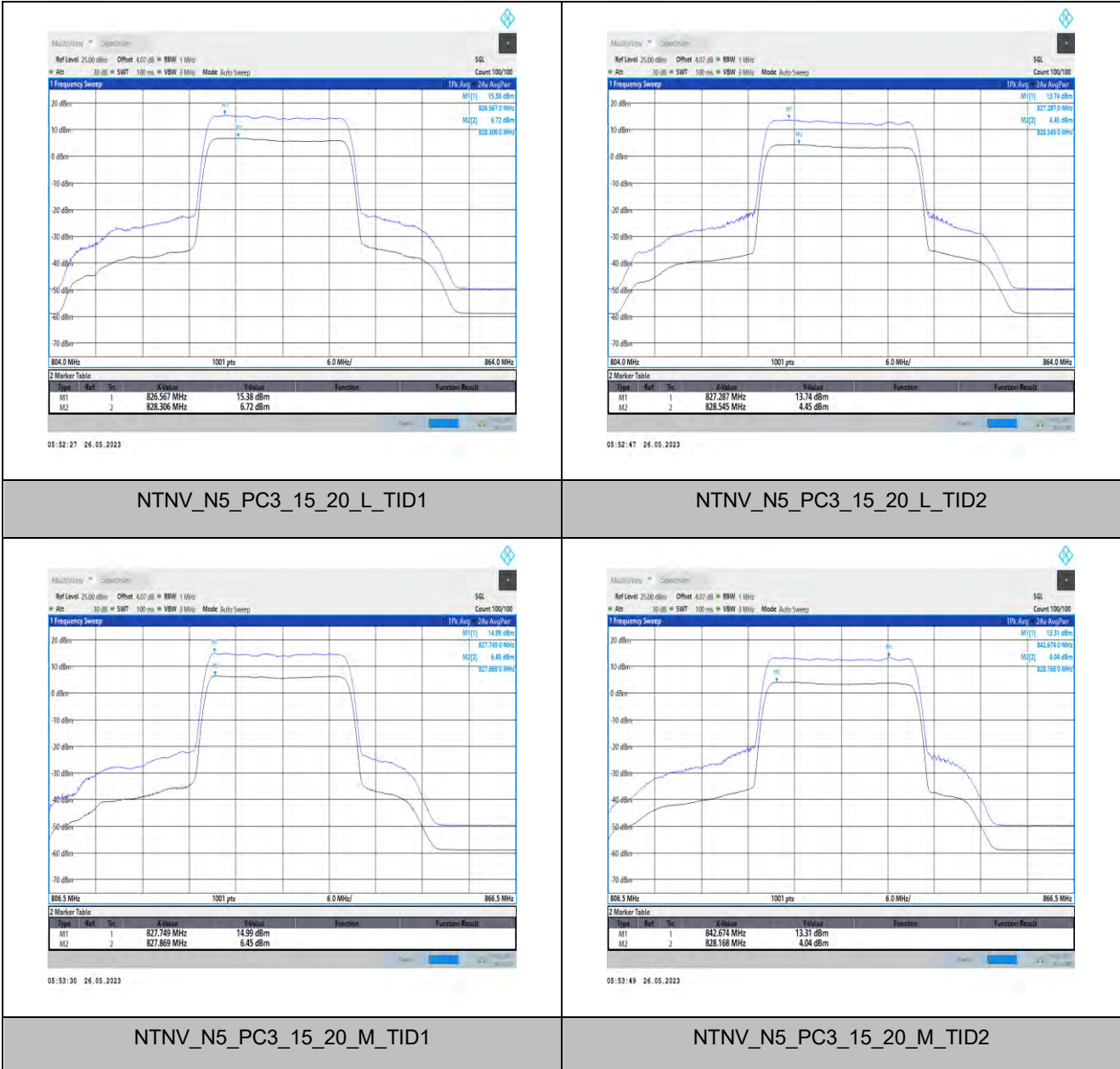
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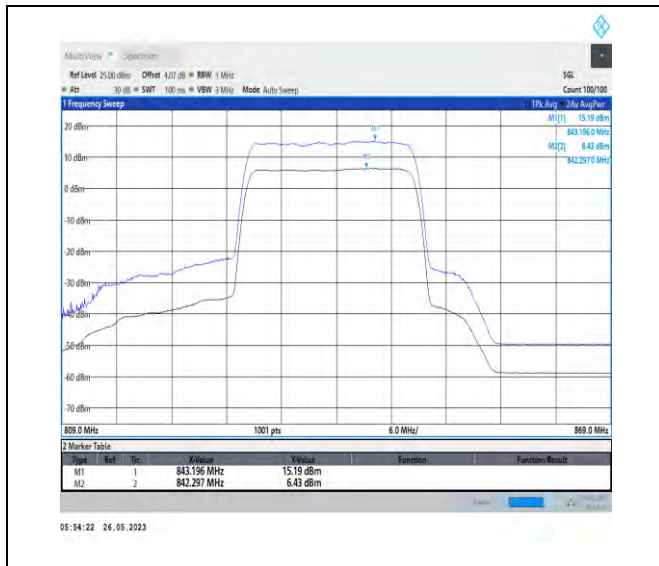
Test Graphs



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NTVN_N5_PC3_15_20_H_TID1



NTVN_N5_PC3_15_20_H_TID2



Modulation characteristics for SA

Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Result | Verdict |
|------|-----|-----------|-------------|---------|------------|-----------|---------|
| N5 | 15 | 20 | DFT-PI2BPSK | M | Outer_Full | see graph | PASS |
| N5 | 15 | 20 | DFT-QPSK | M | Outer_Full | see graph | PASS |
| N5 | 15 | 20 | DFT-16QAM | M | Outer_Full | see graph | PASS |
| N5 | 15 | 20 | DFT-64QAM | M | Outer_Full | see graph | PASS |
| N5 | 15 | 20 | DFT-256QAM | M | Outer_Full | see graph | PASS |
| N5 | 15 | 20 | CP-QPSK | M | Outer_Full | see graph | PASS |
| N5 | 15 | 20 | CP-16QAM | M | Outer_Full | see graph | PASS |
| N5 | 15 | 20 | CP-64QAM | M | Outer_Full | see graph | PASS |
| N5 | 15 | 20 | CP-256QAM | M | Outer_Full | see graph | PASS |

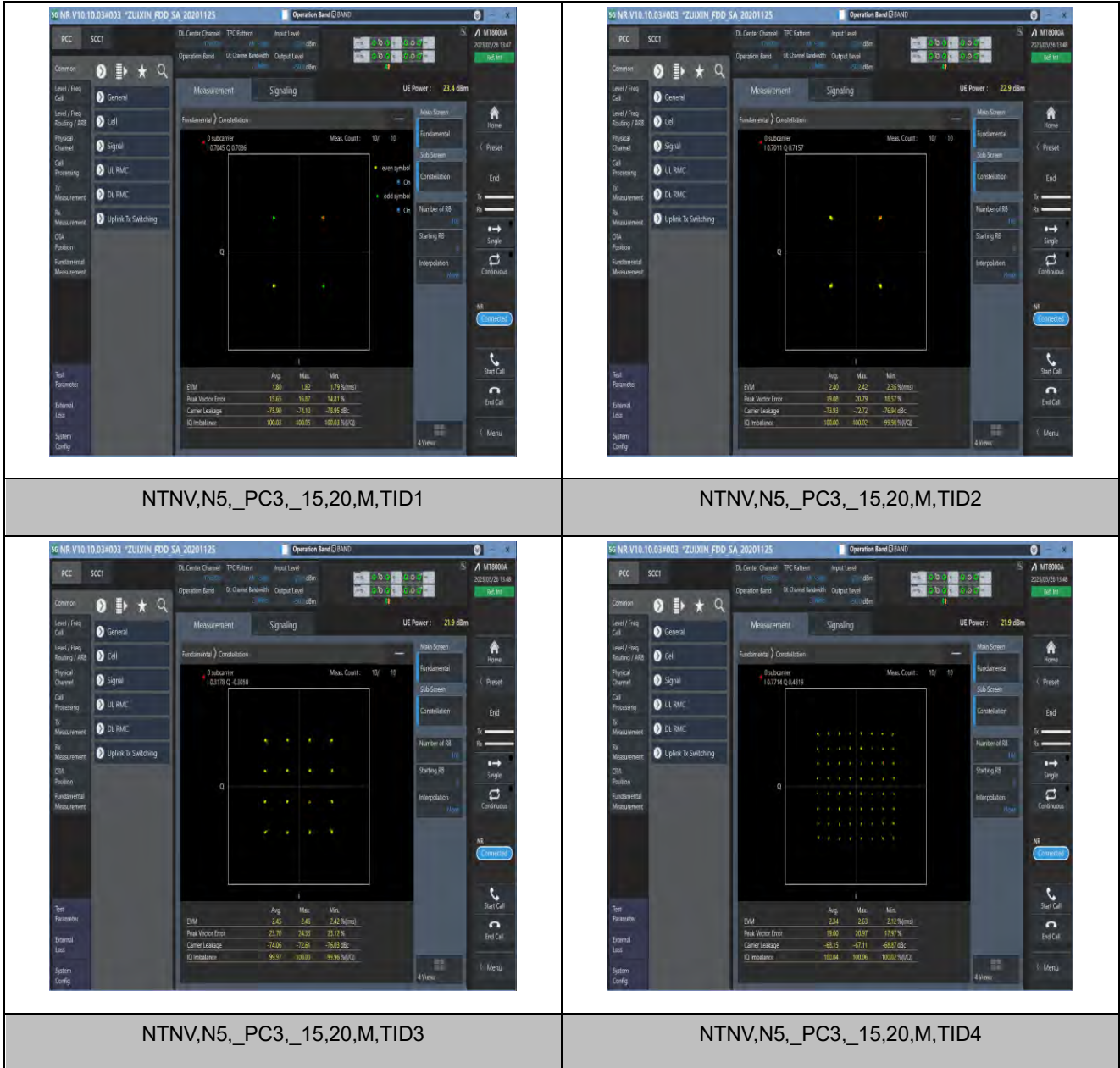


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Test Graphs

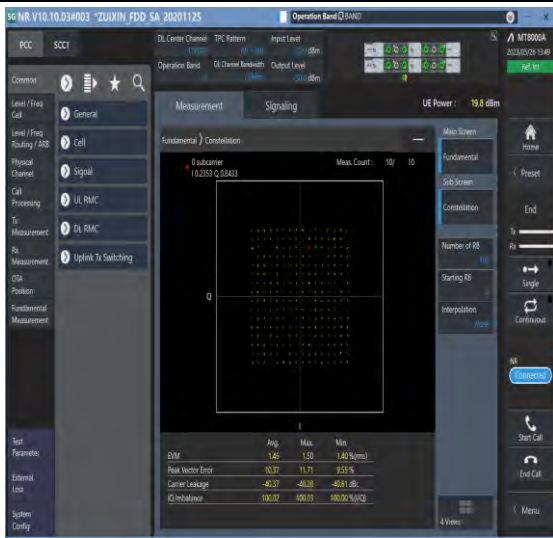


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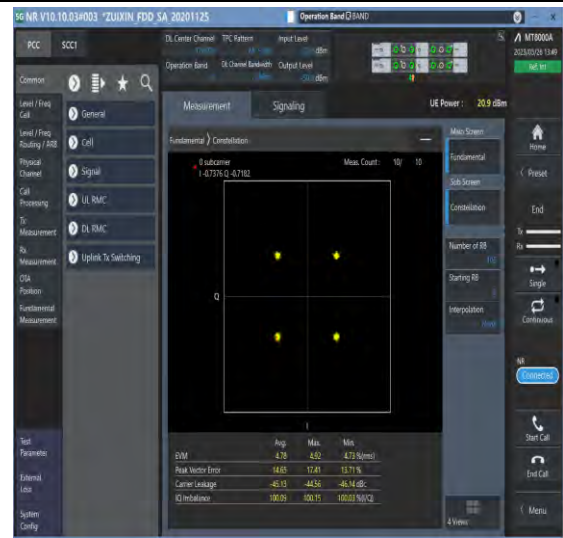
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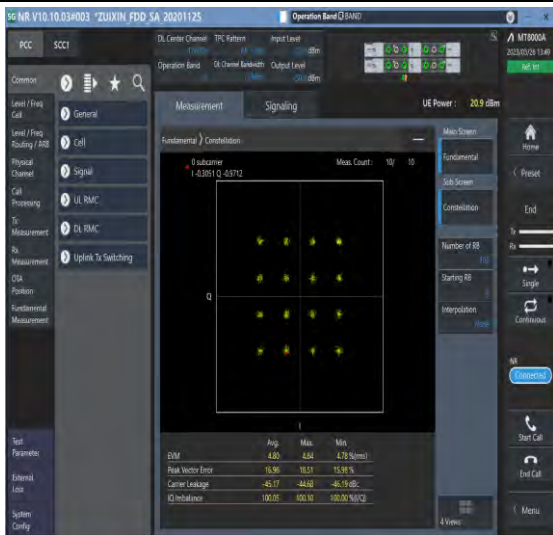
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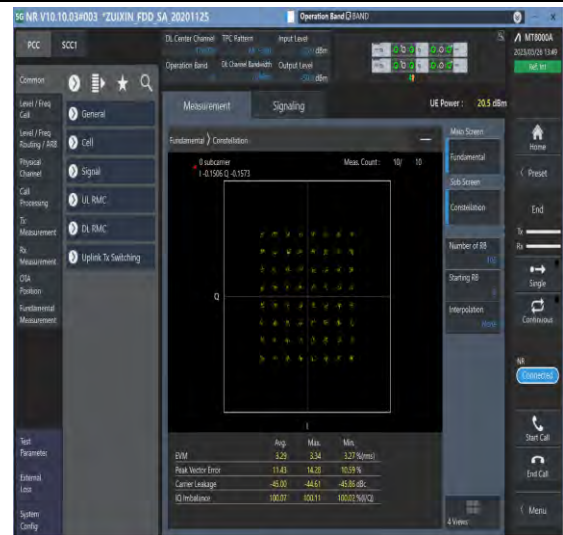
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NTNV,N5,_PC3,_15,20,M,TID6



NTNV,N5,_PC3,_15,20,M,TID7



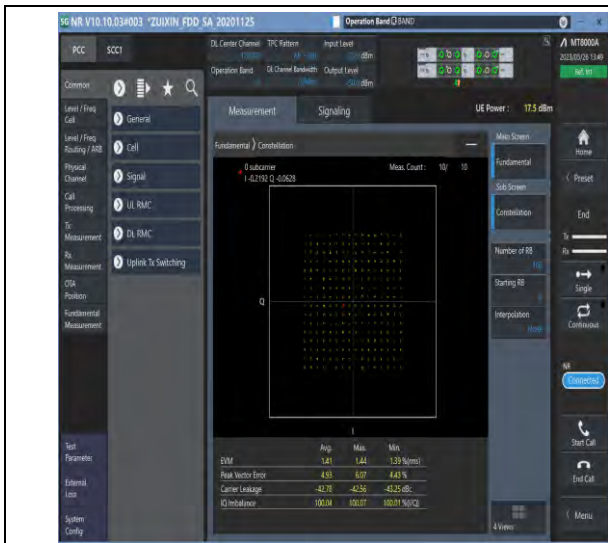
NTNV,N5,_PC3,_15,20,M,TID8



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NTNV,N5,_PC3,_15,20,M,TID9



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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 |
|------|-----|-----------|-------------|---------|------------|--------------|---------------|---------|
| N5 | 15 | 5 | DFT-QPSK | L | Outer_Full | 4.461 | 4.790 | PASS |
| N5 | 15 | 5 | DFT-PI2BPSK | L | Outer_Full | 4.465 | 4.960 | PASS |
| N5 | 15 | 5 | DFT-16QAM | L | Outer_Full | 4.476 | 4.950 | PASS |
| N5 | 15 | 5 | DFT-64QAM | L | Outer_Full | 4.471 | 4.880 | PASS |
| N5 | 15 | 5 | DFT-256QAM | L | Outer_Full | 4.474 | 4.830 | PASS |
| N5 | 15 | 5 | CP-QPSK | L | Outer_Full | 4.467 | 4.900 | PASS |
| N5 | 15 | 5 | CP-16QAM | L | Outer_Full | 4.474 | 4.900 | PASS |
| N5 | 15 | 5 | CP-64QAM | L | Outer_Full | 4.486 | 4.940 | PASS |
| N5 | 15 | 5 | CP-256QAM | L | Outer_Full | 4.466 | 4.920 | PASS |
| N5 | 15 | 5 | DFT-QPSK | M | Outer_Full | 4.472 | 4.840 | PASS |
| N5 | 15 | 5 | DFT-PI2BPSK | M | Outer_Full | 4.473 | 4.870 | PASS |
| N5 | 15 | 5 | DFT-16QAM | M | Outer_Full | 4.477 | 4.900 | PASS |
| N5 | 15 | 5 | DFT-64QAM | M | Outer_Full | 4.474 | 4.850 | PASS |
| N5 | 15 | 5 | DFT-256QAM | M | Outer_Full | 4.486 | 4.930 | PASS |
| N5 | 15 | 5 | CP-QPSK | M | Outer_Full | 4.471 | 4.920 | PASS |
| N5 | 15 | 5 | CP-16QAM | M | Outer_Full | 4.495 | 4.970 | PASS |
| N5 | 15 | 5 | CP-64QAM | M | Outer_Full | 4.474 | 4.940 | PASS |
| N5 | 15 | 5 | CP-256QAM | M | Outer_Full | 4.479 | 4.890 | PASS |
| N5 | 15 | 5 | DFT-QPSK | H | Outer_Full | 4.476 | 4.820 | PASS |
| N5 | 15 | 5 | DFT-PI2BPSK | H | Outer_Full | 4.466 | 4.900 | PASS |
| N5 | 15 | 5 | DFT-16QAM | H | Outer_Full | 4.483 | 4.910 | PASS |
| N5 | 15 | 5 | DFT-64QAM | H | Outer_Full | 4.462 | 4.800 | PASS |
| N5 | 15 | 5 | DFT-256QAM | H | Outer_Full | 4.475 | 4.890 | PASS |
| N5 | 15 | 5 | CP-QPSK | H | Outer_Full | 4.472 | 4.910 | PASS |
| N5 | 15 | 5 | CP-16QAM | H | Outer_Full | 4.485 | 4.930 | PASS |
| N5 | 15 | 5 | CP-64QAM | H | Outer_Full | 4.484 | 4.980 | PASS |
| N5 | 15 | 5 | CP-256QAM | H | Outer_Full | 4.462 | 4.920 | PASS |
| N5 | 15 | 10 | DFT-QPSK | L | Outer_Full | 8.921 | 9.540 | PASS |
| N5 | 15 | 10 | DFT-PI2BPSK | L | Outer_Full | 8.886 | 9.440 | PASS |
| N5 | 15 | 10 | DFT-16QAM | L | Outer_Full | 8.935 | 9.440 | PASS |



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|----|----|----|-------------|---|------------|--------|--------|------|
| N5 | 15 | 10 | DFT-64QAM | L | Outer_Full | 8.907 | 9.440 | PASS |
| N5 | 15 | 10 | DFT-256QAM | L | Outer_Full | 8.912 | 9.520 | PASS |
| N5 | 15 | 10 | CP-QPSK | L | Outer_Full | 9.264 | 9.880 | PASS |
| N5 | 15 | 10 | CP-16QAM | L | Outer_Full | 9.287 | 9.900 | PASS |
| N5 | 15 | 10 | CP-64QAM | L | Outer_Full | 9.281 | 9.900 | PASS |
| N5 | 15 | 10 | CP-256QAM | L | Outer_Full | 9.291 | 9.920 | PASS |
| N5 | 15 | 10 | DFT-QPSK | M | Outer_Full | 8.912 | 9.460 | PASS |
| N5 | 15 | 10 | DFT-PI2BPSK | M | Outer_Full | 8.909 | 9.460 | PASS |
| N5 | 15 | 10 | DFT-16QAM | M | Outer_Full | 8.955 | 9.520 | PASS |
| N5 | 15 | 10 | DFT-64QAM | M | Outer_Full | 8.937 | 9.480 | PASS |
| N5 | 15 | 10 | DFT-256QAM | M | Outer_Full | 8.909 | 9.560 | PASS |
| N5 | 15 | 10 | CP-QPSK | M | Outer_Full | 9.289 | 9.840 | PASS |
| N5 | 15 | 10 | CP-16QAM | M | Outer_Full | 9.267 | 9.960 | PASS |
| N5 | 15 | 10 | CP-64QAM | M | Outer_Full | 9.274 | 9.900 | PASS |
| N5 | 15 | 10 | CP-256QAM | M | Outer_Full | 9.315 | 9.920 | PASS |
| N5 | 15 | 10 | DFT-QPSK | H | Outer_Full | 8.897 | 9.540 | PASS |
| N5 | 15 | 10 | DFT-PI2BPSK | H | Outer_Full | 8.896 | 9.400 | PASS |
| N5 | 15 | 10 | DFT-16QAM | H | Outer_Full | 8.904 | 9.520 | PASS |
| N5 | 15 | 10 | DFT-64QAM | H | Outer_Full | 8.928 | 9.520 | PASS |
| N5 | 15 | 10 | DFT-256QAM | H | Outer_Full | 8.905 | 9.480 | PASS |
| N5 | 15 | 10 | CP-QPSK | H | Outer_Full | 9.268 | 9.860 | PASS |
| N5 | 15 | 10 | CP-16QAM | H | Outer_Full | 9.256 | 9.800 | PASS |
| N5 | 15 | 10 | CP-64QAM | H | Outer_Full | 9.270 | 9.880 | PASS |
| N5 | 15 | 10 | CP-256QAM | H | Outer_Full | 9.293 | 9.840 | PASS |
| N5 | 15 | 15 | DFT-QPSK | L | Outer_Full | 13.428 | 14.280 | PASS |
| N5 | 15 | 15 | DFT-PI2BPSK | L | Outer_Full | 13.429 | 14.220 | PASS |
| N5 | 15 | 15 | DFT-16QAM | L | Outer_Full | 13.466 | 14.310 | PASS |
| N5 | 15 | 15 | DFT-64QAM | L | Outer_Full | 13.434 | 14.130 | PASS |
| N5 | 15 | 15 | DFT-256QAM | L | Outer_Full | 13.438 | 14.190 | PASS |
| N5 | 15 | 15 | CP-QPSK | L | Outer_Full | 14.111 | 14.850 | PASS |
| N5 | 15 | 15 | CP-16QAM | L | Outer_Full | 14.131 | 15.000 | PASS |
| N5 | 15 | 15 | CP-64QAM | L | Outer_Full | 14.157 | 14.940 | PASS |
| N5 | 15 | 15 | CP-256QAM | L | Outer_Full | 14.114 | 14.820 | PASS |
| N5 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full | 13.435 | 14.280 | PASS |
| N5 | 15 | 15 | DFT-16QAM | M | Outer_Full | 13.451 | 14.250 | PASS |
| N5 | 15 | 15 | DFT-64QAM | M | Outer_Full | 13.413 | 14.220 | PASS |



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|----|----|----|-------------|---|------------|--------|--------|------|
| N5 | 15 | 15 | DFT-256QAM | M | Outer_Full | 13.460 | 14.220 | PASS |
| N5 | 15 | 15 | CP-QPSK | M | Outer_Full | 14.133 | 14.940 | PASS |
| N5 | 15 | 15 | CP-16QAM | M | Outer_Full | 14.122 | 14.940 | PASS |
| N5 | 15 | 15 | CP-64QAM | M | Outer_Full | 14.147 | 15.000 | PASS |
| N5 | 15 | 15 | CP-256QAM | M | Outer_Full | 14.084 | 14.790 | PASS |
| N5 | 15 | 15 | DFT-QPSK | H | Outer_Full | 13.406 | 14.160 | PASS |
| N5 | 15 | 15 | DFT-PI2BPSK | H | Outer_Full | 13.412 | 14.220 | PASS |
| N5 | 15 | 15 | DFT-16QAM | H | Outer_Full | 13.438 | 14.100 | PASS |
| N5 | 15 | 15 | DFT-64QAM | H | Outer_Full | 13.408 | 14.250 | PASS |
| N5 | 15 | 15 | DFT-256QAM | H | Outer_Full | 13.441 | 14.190 | PASS |
| N5 | 15 | 15 | CP-QPSK | H | Outer_Full | 14.096 | 14.850 | PASS |
| N5 | 15 | 15 | CP-16QAM | H | Outer_Full | 14.084 | 14.760 | PASS |
| N5 | 15 | 15 | CP-64QAM | H | Outer_Full | 14.098 | 14.970 | PASS |
| N5 | 15 | 15 | CP-256QAM | H | Outer_Full | 14.088 | 14.850 | PASS |
| N5 | 15 | 20 | DFT-QPSK | L | Outer_Full | 17.886 | 18.840 | PASS |
| N5 | 15 | 20 | DFT-PI2BPSK | L | Outer_Full | 17.891 | 18.640 | PASS |
| N5 | 15 | 20 | DFT-16QAM | L | Outer_Full | 17.874 | 18.640 | PASS |
| N5 | 15 | 20 | DFT-64QAM | L | Outer_Full | 17.941 | 18.800 | PASS |
| N5 | 15 | 20 | DFT-256QAM | L | Outer_Full | 17.872 | 18.640 | PASS |
| N5 | 15 | 20 | CP-QPSK | L | Outer_Full | 18.948 | 19.920 | PASS |
| N5 | 15 | 20 | CP-16QAM | L | Outer_Full | 18.962 | 19.800 | PASS |
| N5 | 15 | 20 | CP-64QAM | L | Outer_Full | 18.942 | 19.760 | PASS |
| N5 | 15 | 20 | CP-256QAM | L | Outer_Full | 18.938 | 19.720 | PASS |
| N5 | 15 | 20 | DFT-QPSK | M | Outer_Full | 17.888 | 18.720 | PASS |
| N5 | 15 | 20 | DFT-PI2BPSK | M | Outer_Full | 17.910 | 18.720 | PASS |
| N5 | 15 | 20 | DFT-16QAM | M | Outer_Full | 17.892 | 18.600 | PASS |
| N5 | 15 | 20 | DFT-64QAM | M | Outer_Full | 17.928 | 18.720 | PASS |
| N5 | 15 | 20 | DFT-256QAM | M | Outer_Full | 17.893 | 18.720 | PASS |
| N5 | 15 | 20 | CP-QPSK | M | Outer_Full | 18.949 | 21.320 | PASS |
| N5 | 15 | 20 | CP-16QAM | M | Outer_Full | 18.936 | 19.840 | PASS |
| N5 | 15 | 20 | CP-64QAM | M | Outer_Full | 18.934 | 19.800 | PASS |
| N5 | 15 | 20 | CP-256QAM | M | Outer_Full | 18.939 | 19.800 | PASS |
| N5 | 15 | 20 | DFT-QPSK | H | Outer_Full | 17.887 | 18.760 | PASS |
| N5 | 15 | 20 | DFT-PI2BPSK | H | Outer_Full | 17.872 | 18.760 | PASS |
| N5 | 15 | 20 | DFT-16QAM | H | Outer_Full | 17.863 | 18.640 | PASS |
| N5 | 15 | 20 | DFT-64QAM | H | Outer_Full | 17.846 | 18.840 | PASS |



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| | | | | | | | | |
|----|----|----|------------|---|------------|--------|--------|------|
| N5 | 15 | 20 | DFT-256QAM | H | Outer_Full | 17.864 | 18.680 | PASS |
| N5 | 15 | 20 | CP-QPSK | H | Outer_Full | 18.902 | 19.800 | PASS |
| N5 | 15 | 20 | CP-16QAM | H | Outer_Full | 18.914 | 19.880 | PASS |
| N5 | 15 | 20 | CP-64QAM | H | Outer_Full | 18.968 | 19.760 | PASS |
| N5 | 15 | 20 | CP-256QAM | H | Outer_Full | 18.992 | 19.840 | PASS |



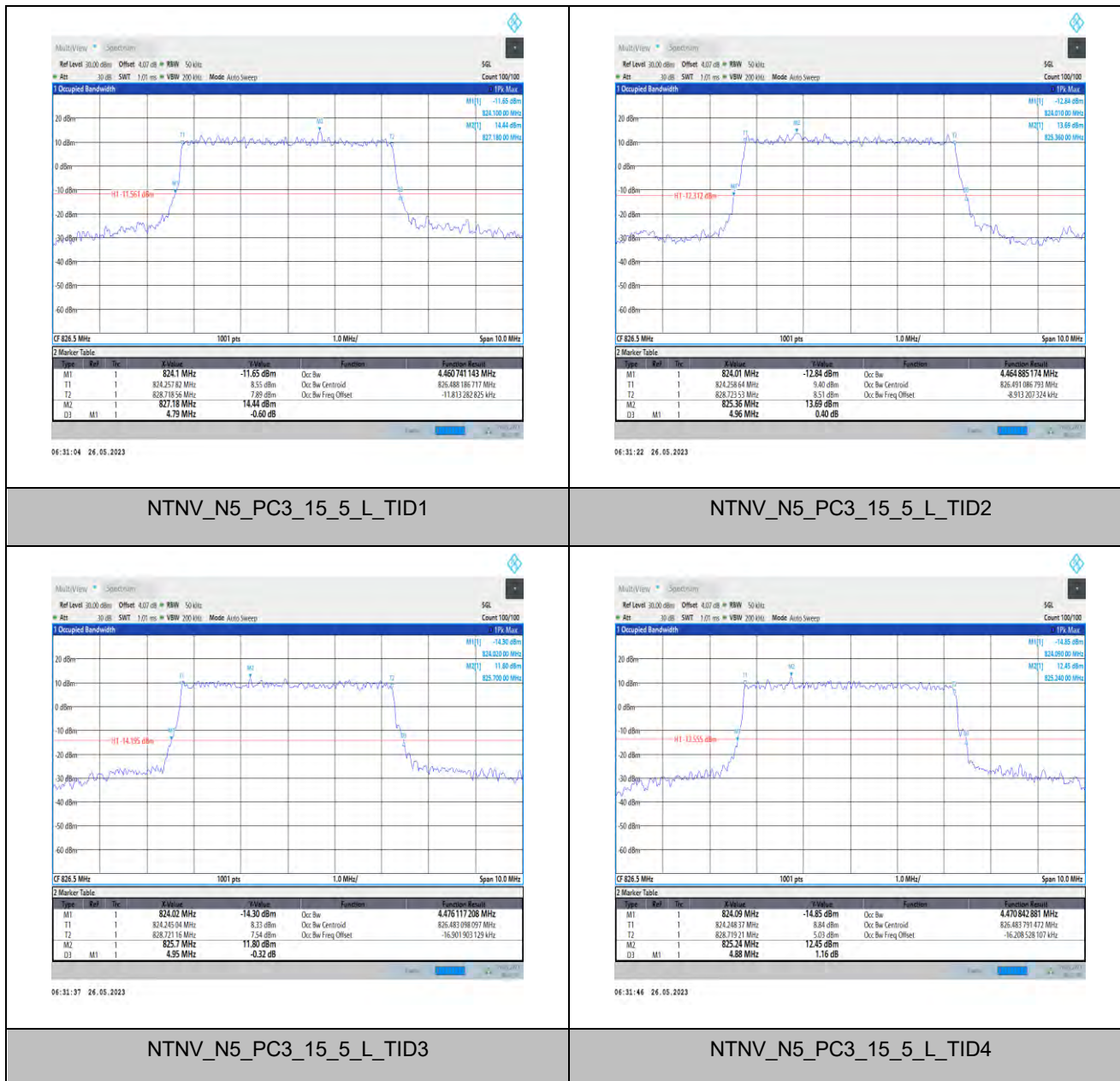
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Test Graphs



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NTNV_N5_PC3_15_5_L_TID5



NTNV_N5_PC3_15_5_L_TID6



NTNV_N5_PC3_15_5_L_TID7



NTNV_N5_PC3_15_5_L_TID8



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NTNV_N5_PC3_15_5_M_TID1



NTNV_N5_PC3_15_5_M_TID2



NTNV_N5_PC3_15_5_M_TID3

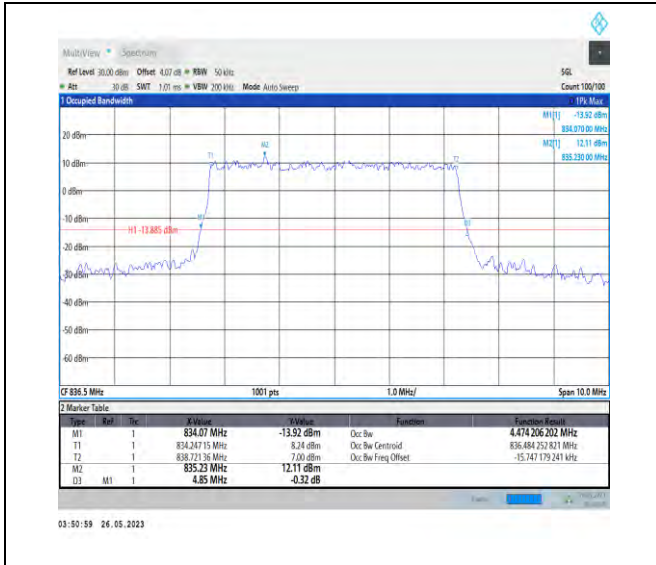


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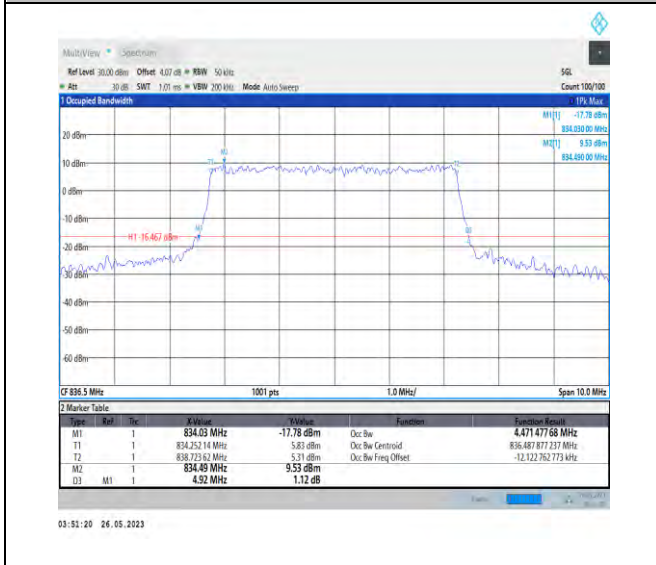
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NTNV_N5_PC3_15_5_M_TID5



NTNV_N5_PC3_15_5_M_TID6



NTNV_N5_PC3_15_5_M_TID7



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NTNV_N5_PC3_15_5_M_TID9



NTNV_N5_PC3_15_5_H_TID1



NTNV_N5_PC3_15_5_H_TID2



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NTNV_N5_PC3_15_5_H_TID4



NTNV_N5_PC3_15_5_H_TID5



NTNV_N5_PC3_15_5_H_TID6



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NTNV_N5_PC3_15_5_H_TID8



NTNV_N5_PC3_15_5_H_TID9



NTNV_N5_PC3_15_10_L_TID1

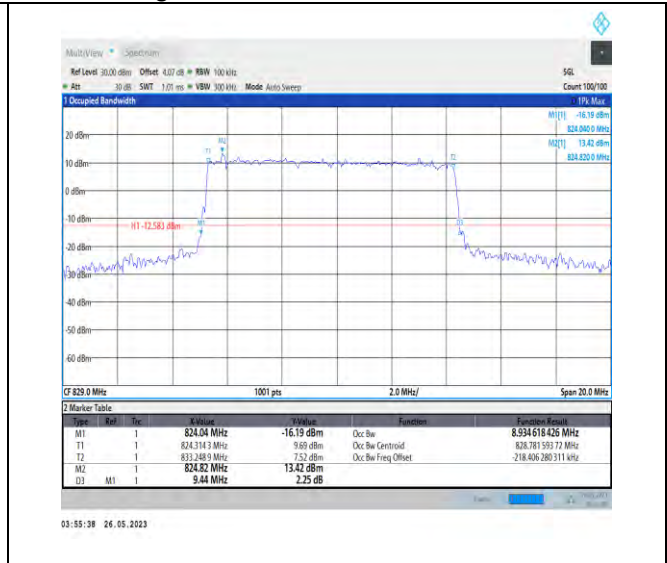


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NTVN_N5_PC3_15_10_L_TID3



NTVN_N5_PC3_15_10_L_TID4



NTVN_N5_PC3_15_10_L_TID5



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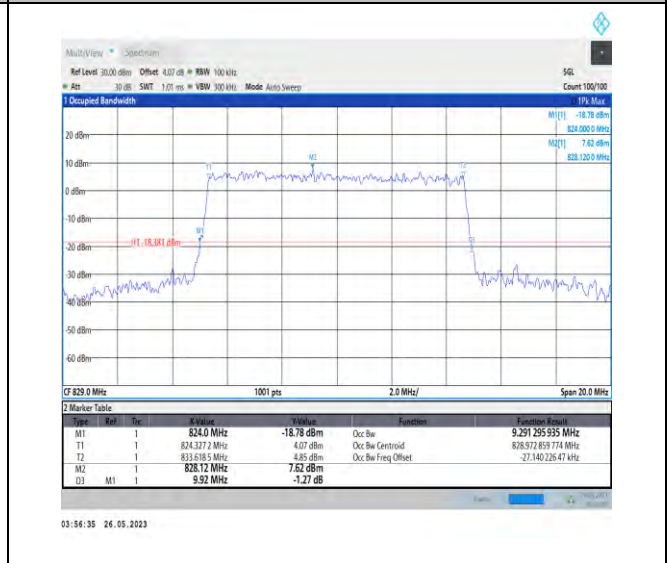
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NTVN_N5_PC3_15_10_L_TID7



NTVN_N5_PC3_15_10_L_TID8



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NTVN_N5_PC3_15_10_M_TID2



NTVN_N5_PC3_15_10_M_TID3



NTVN_N5_PC3_15_10_M_TID4



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NTVN_N5_PC3_15_10_M_TID6



NTVN_N5_PC3_15_10_M_TID7



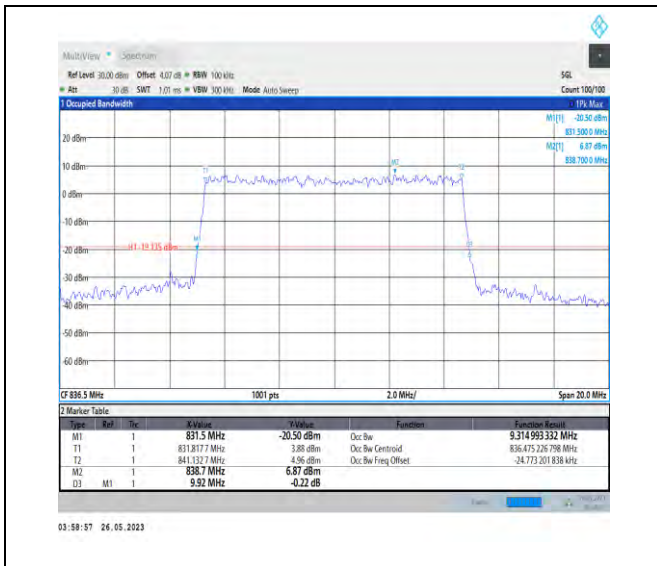
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NTVN_N5_PC3_15_10_H_TID1



NTVN_N5_PC3_15_10_H_TID2



NTVN_N5_PC3_15_10_H_TID3



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NTVN_N5_PC3_15_10_H_TID5



NTVN_N5_PC3_15_10_H_TID6



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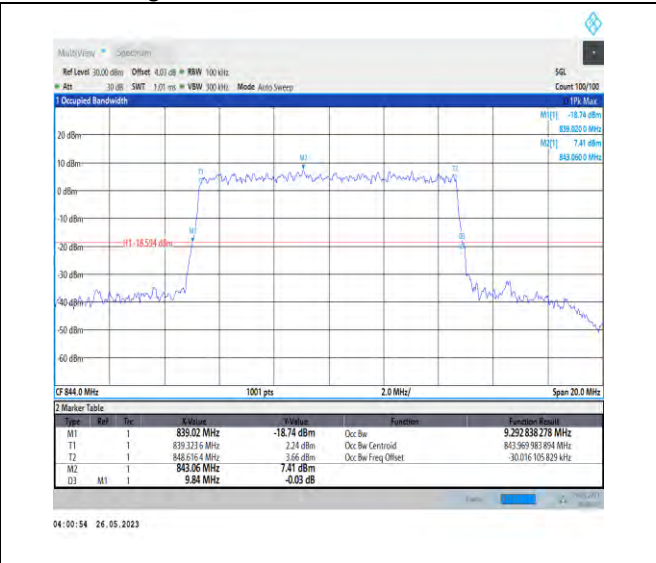


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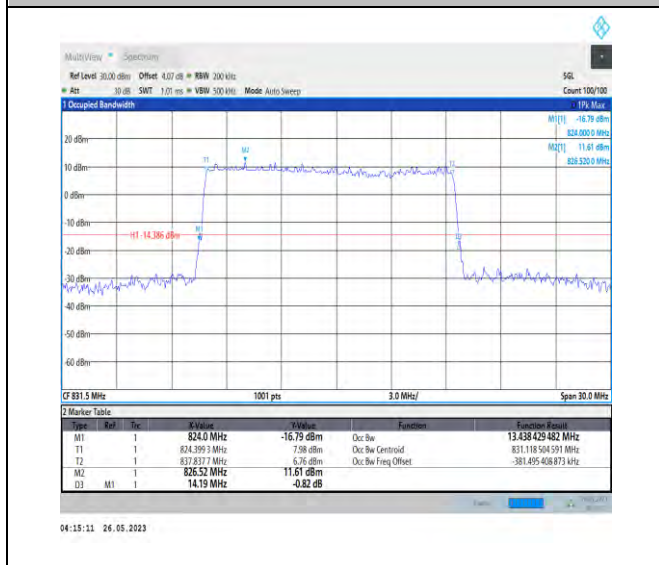
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NTVN_N5_PC3_15_15_L_TID4



NTVN_N5_PC3_15_15_L_TID5



NTVN_N5_PC3_15_15_L_TID6



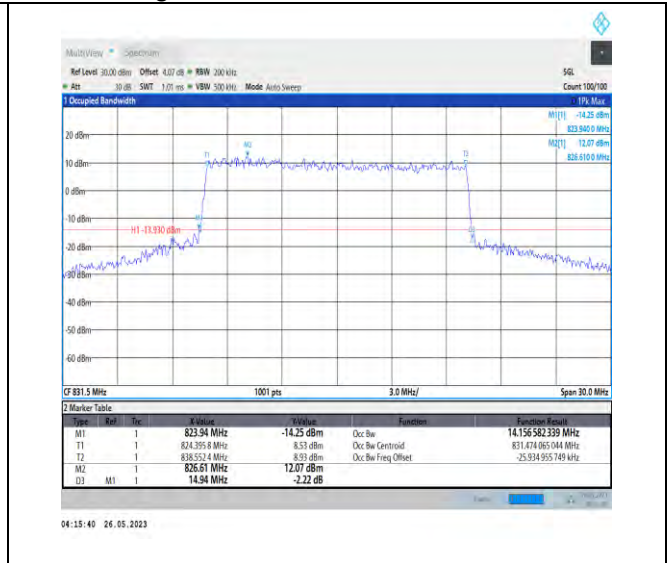
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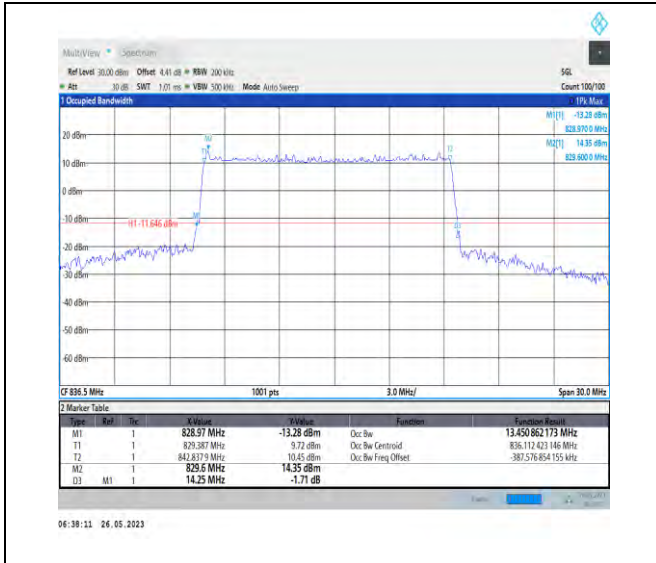


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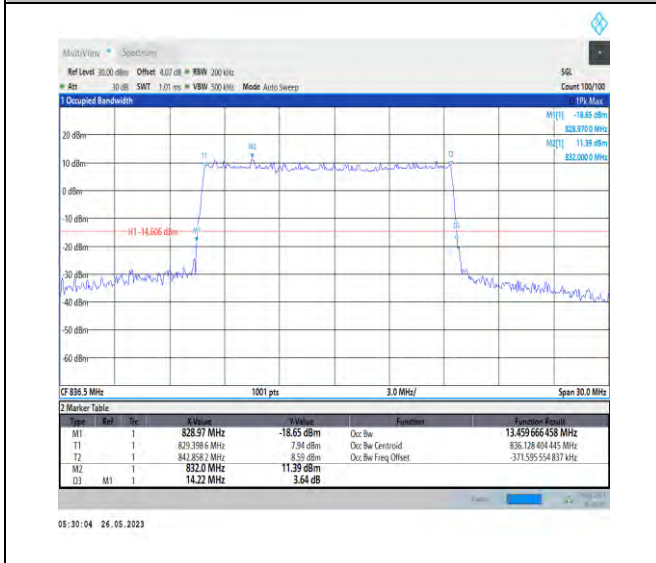
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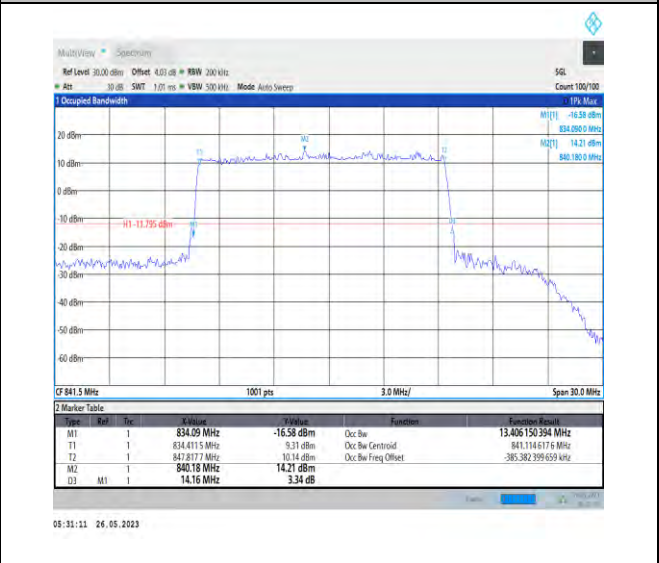
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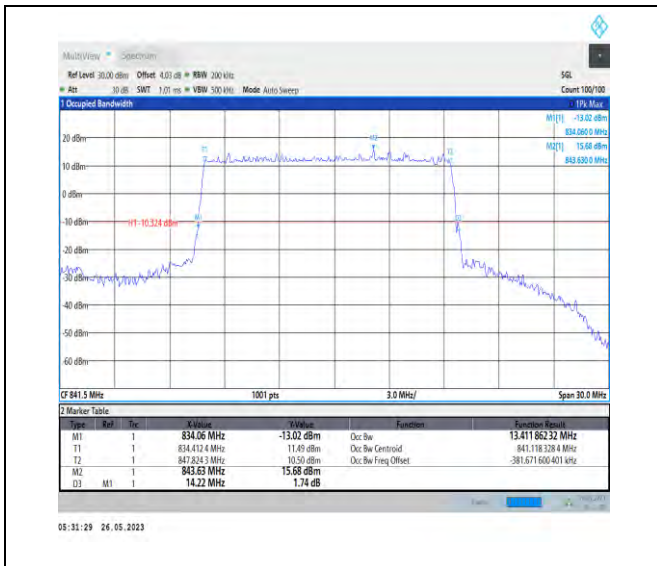
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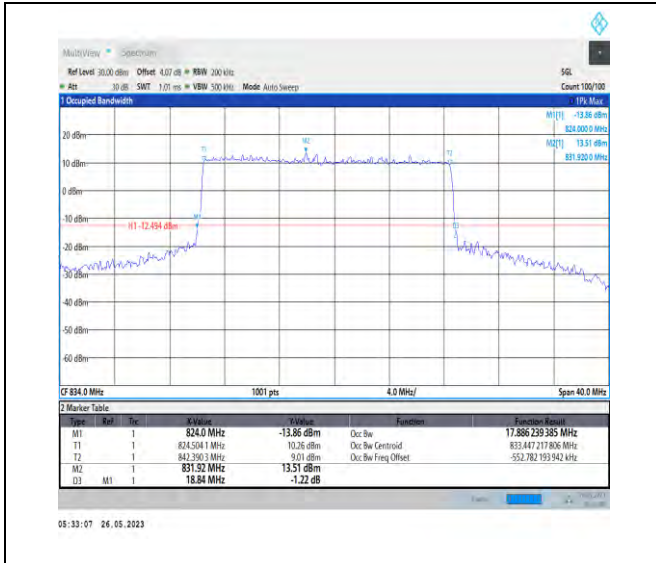


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NTVN_N5_PC3_15_20_L_TID2



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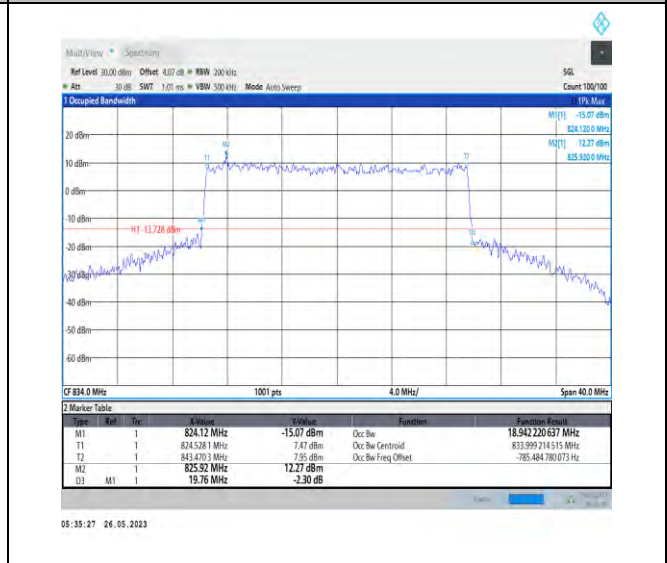
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NTVN_N5_PC3_15_20_L_TID6



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NTVN_N5_PC3_15_20_M_TID2



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NTVN_N5_PC3_15_20_M_TID6



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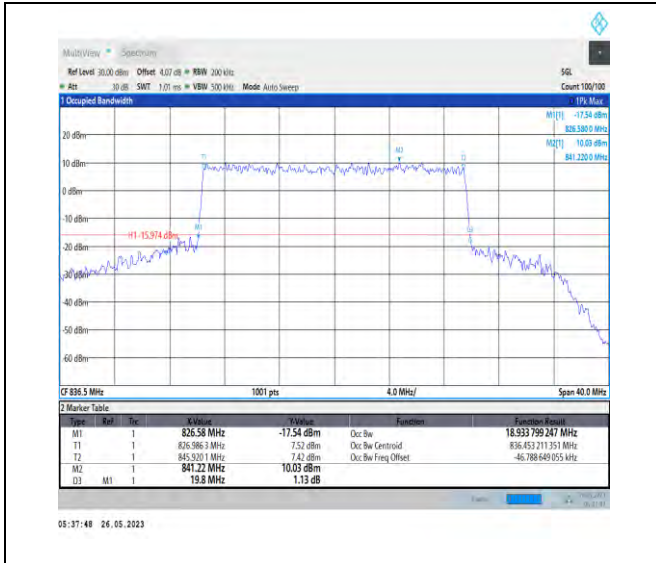


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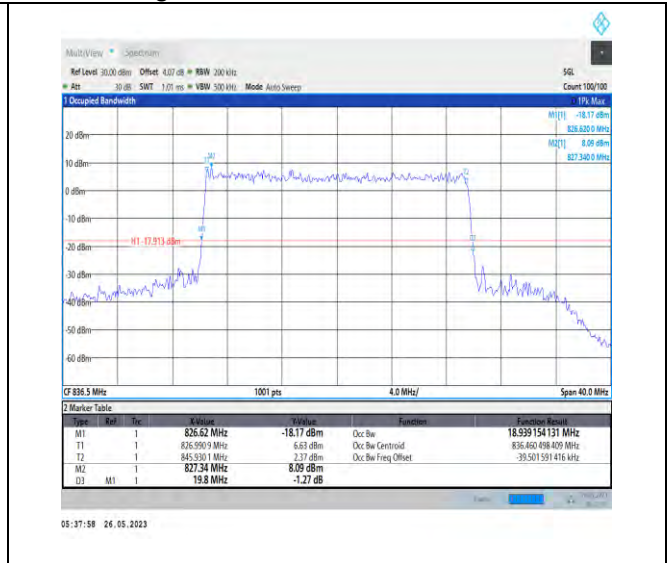
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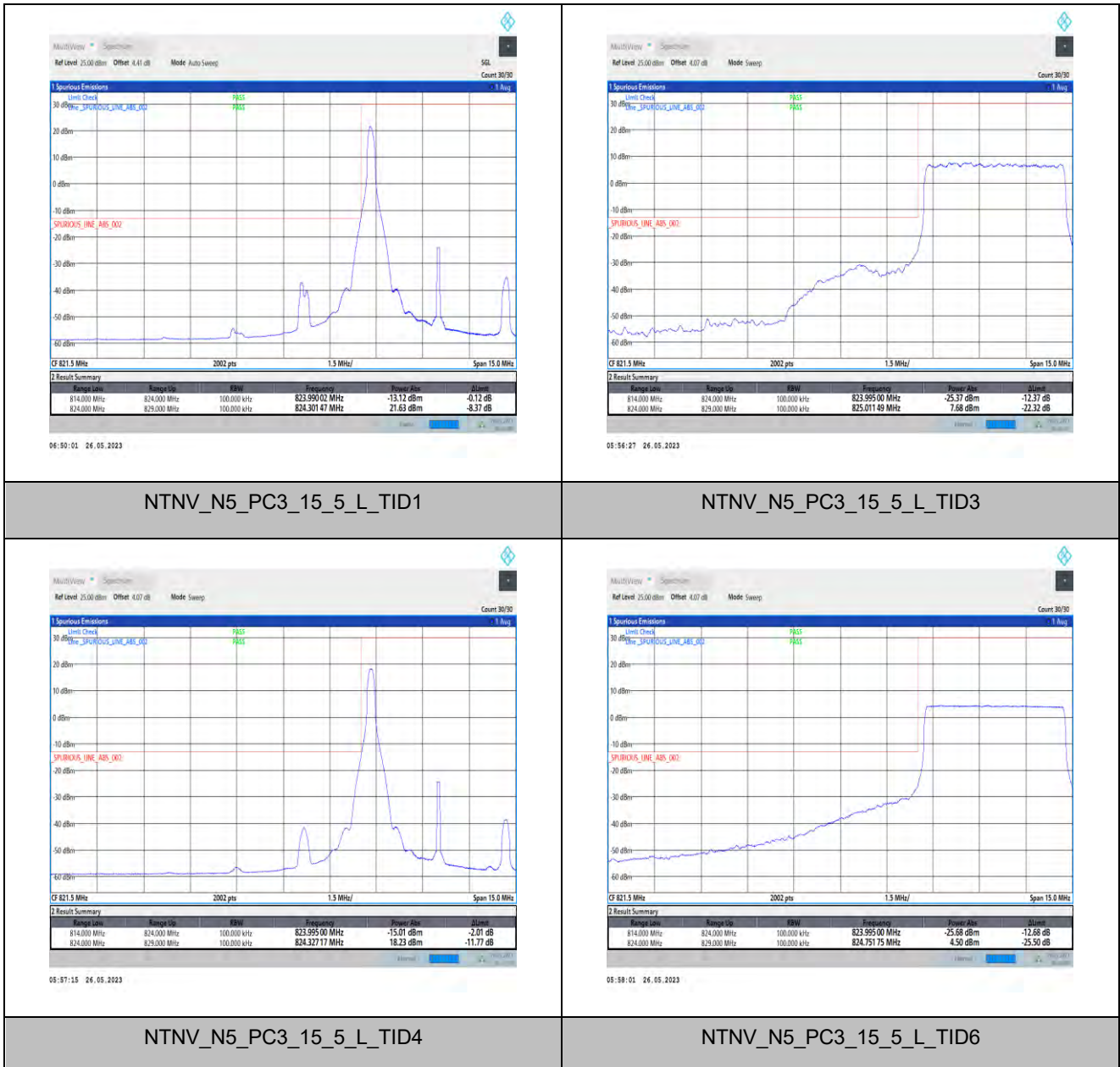
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Band Edge for SA

Test Graphs

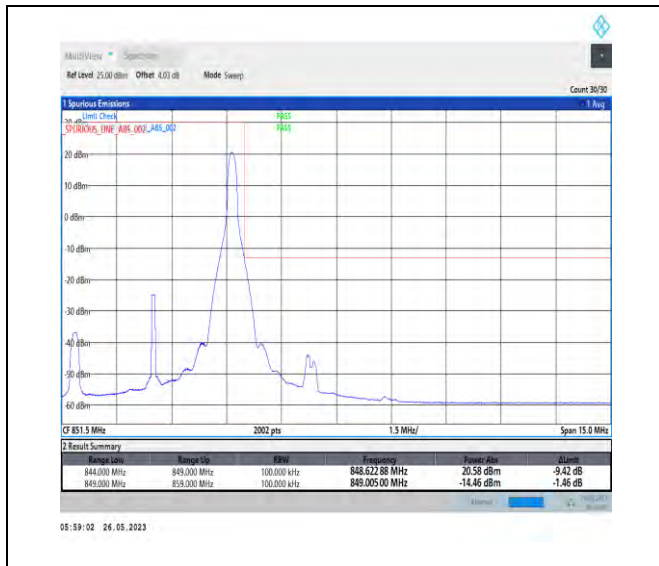


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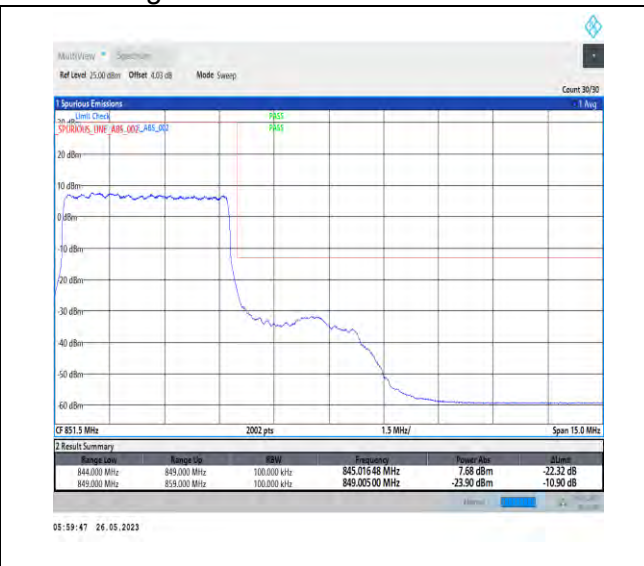
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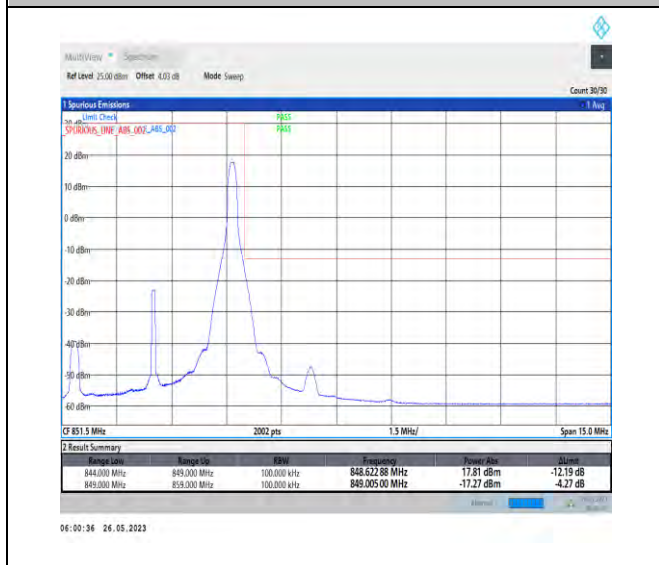
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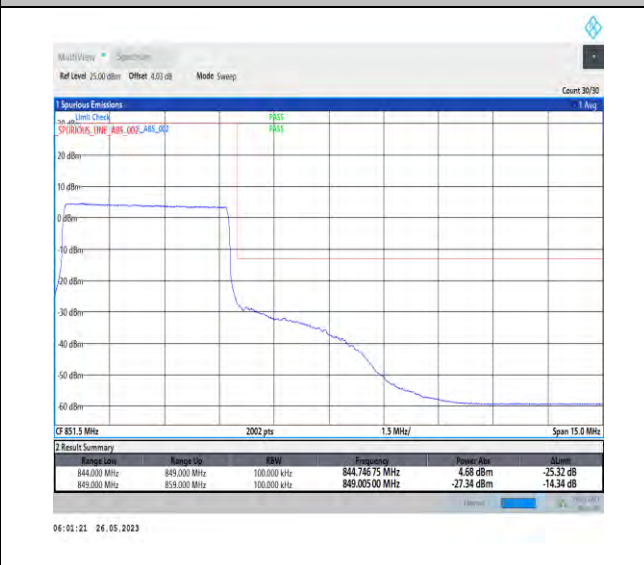
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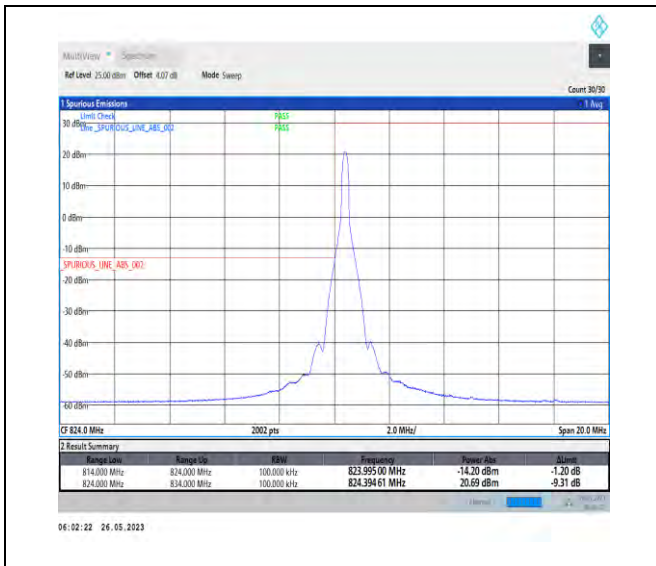


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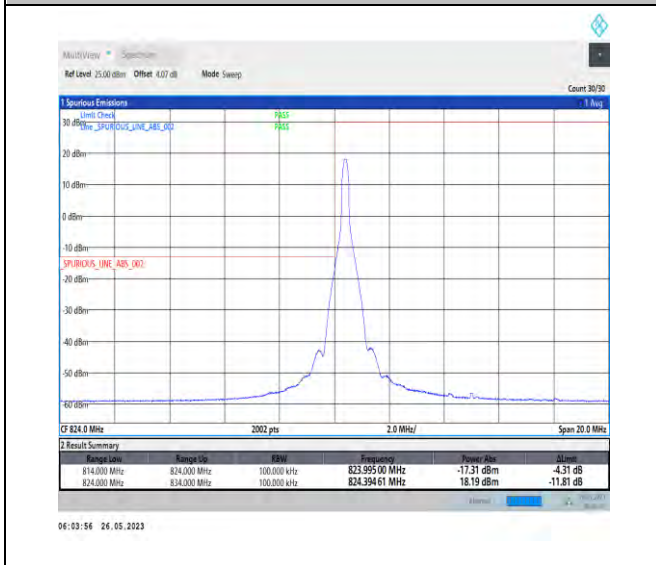




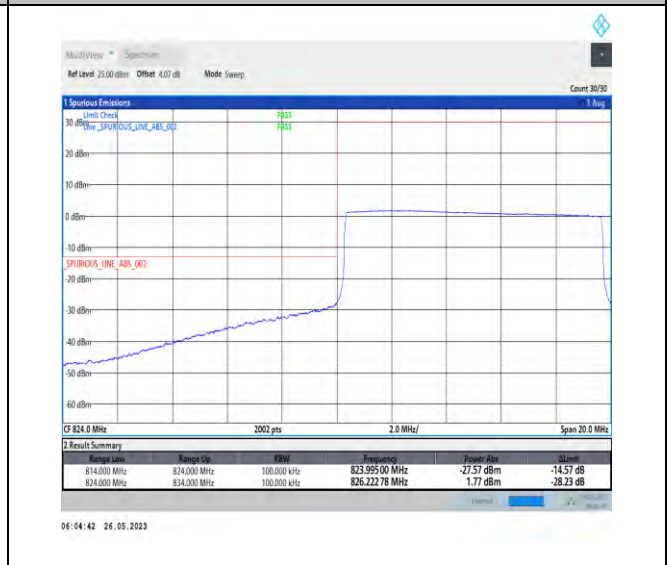
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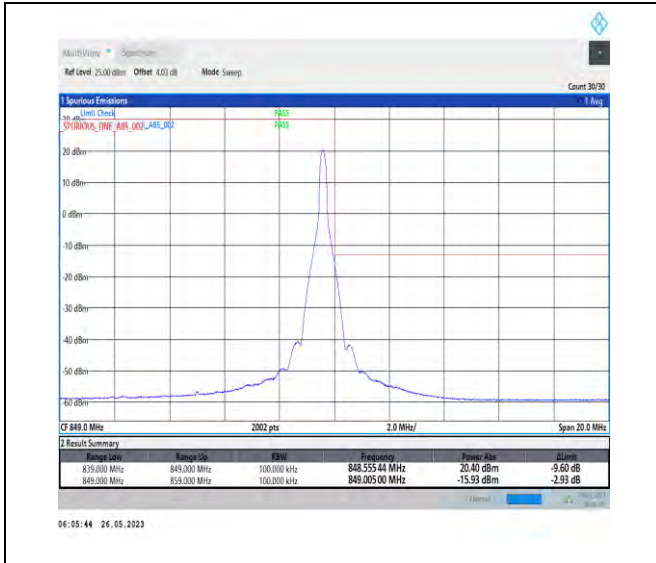


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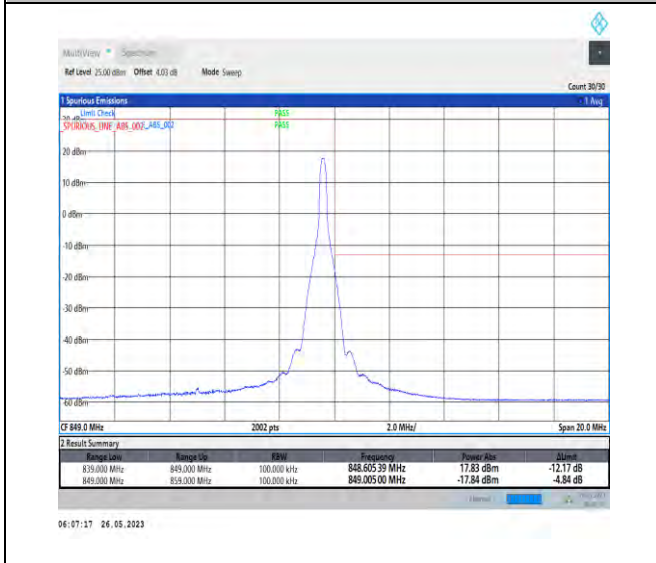
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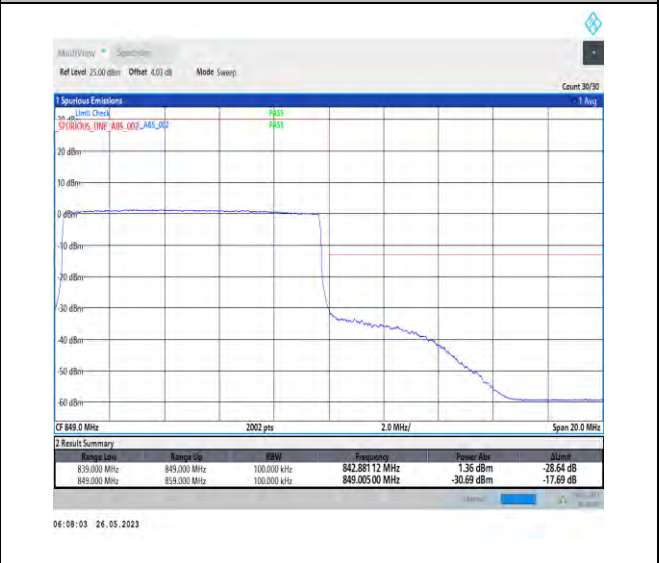
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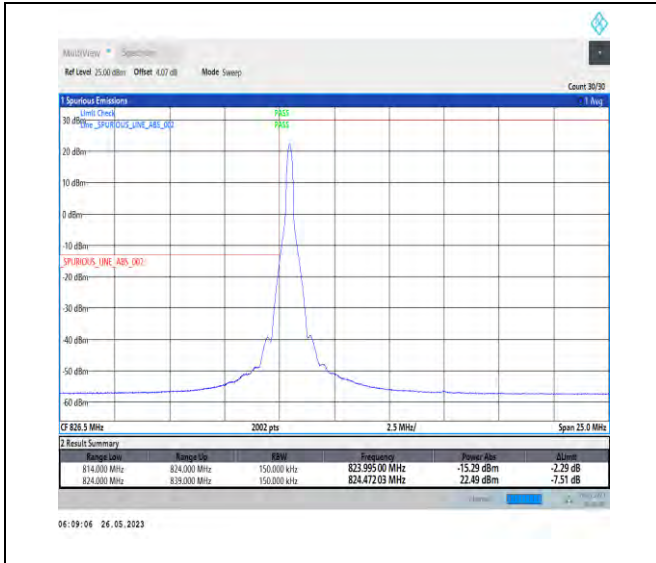


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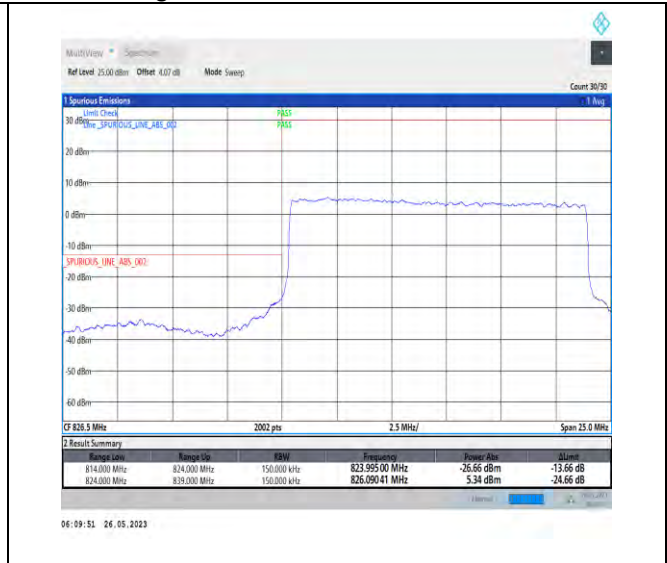
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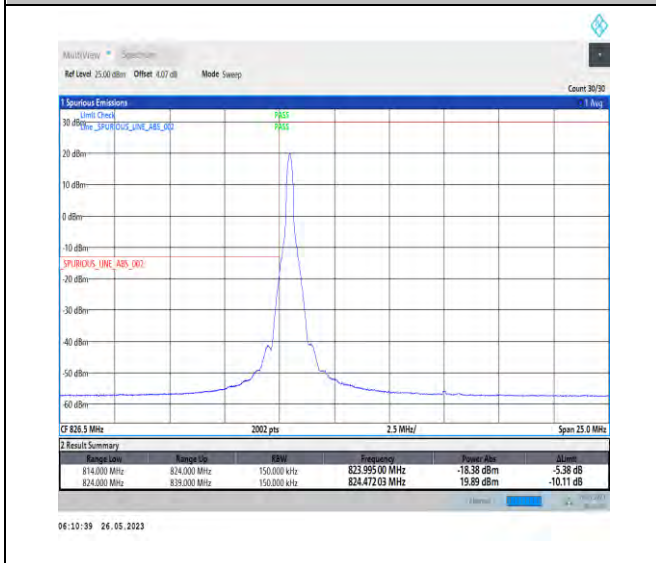
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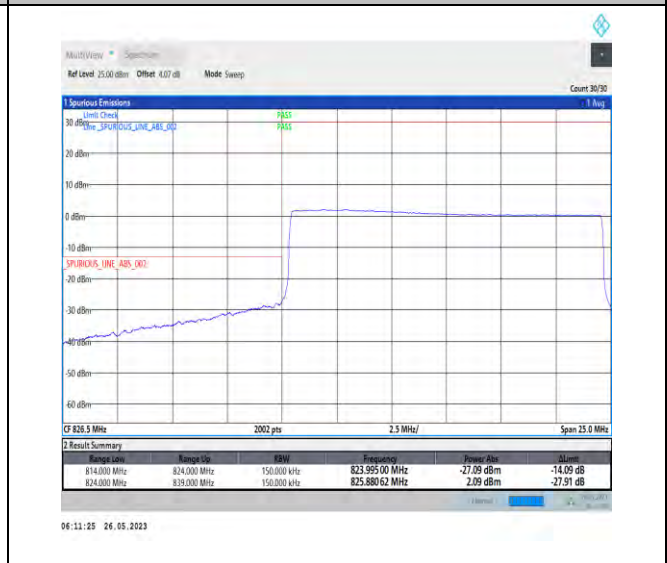
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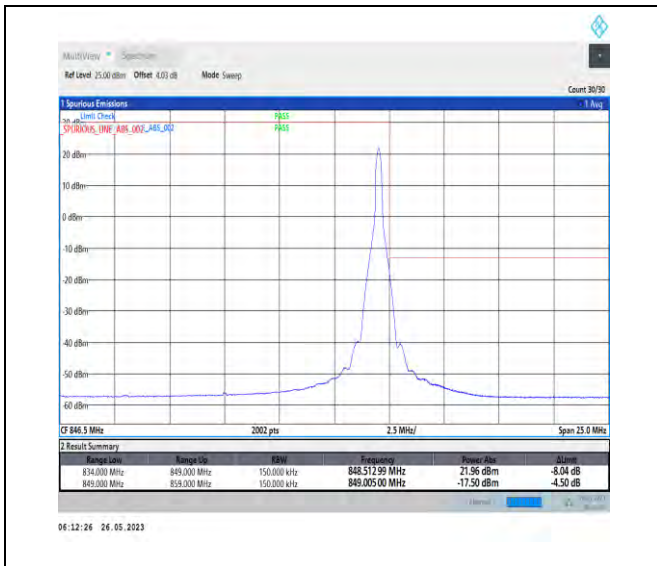
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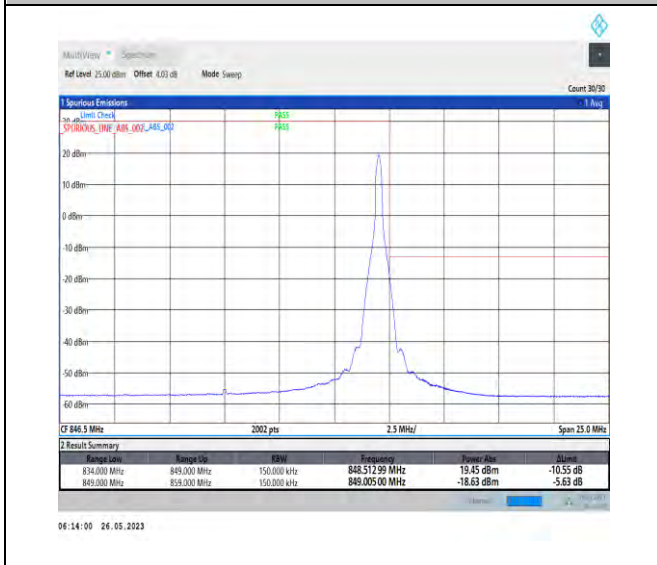
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NTNV_N5_PC3_15_15_H_TID2



NTNV_N5_PC3_15_15_H_TID3



NTNV_N5_PC3_15_15_H_TID5

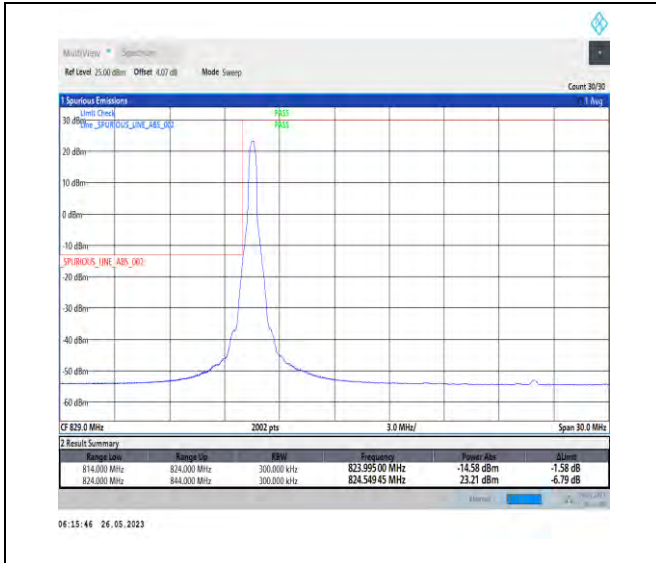


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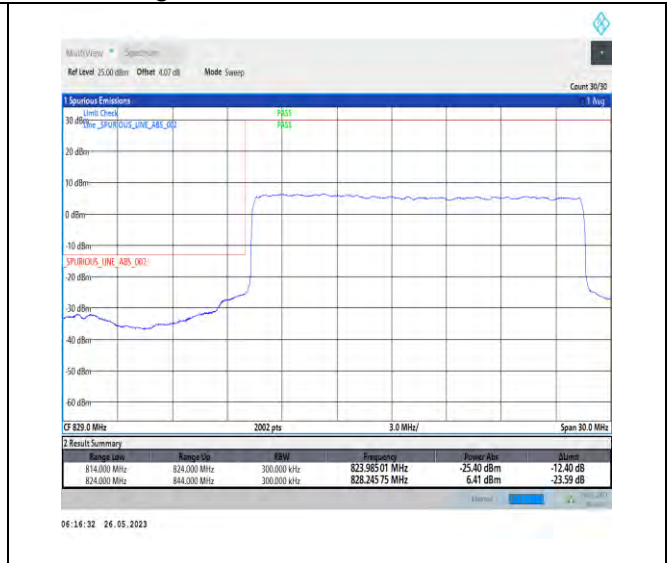


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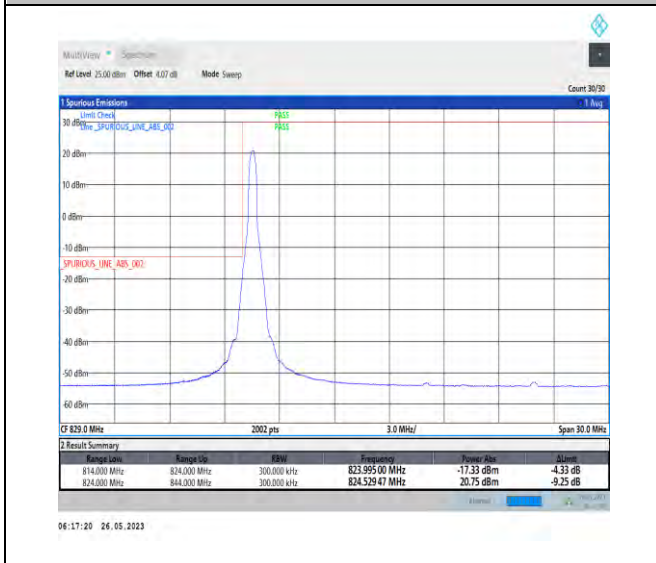
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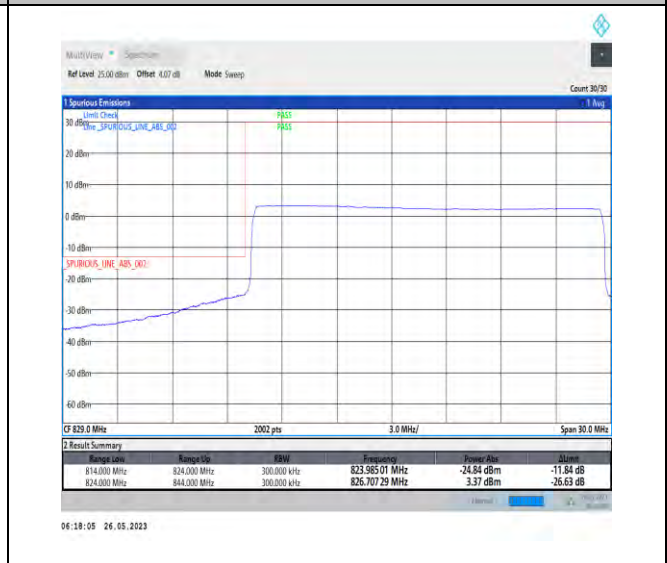
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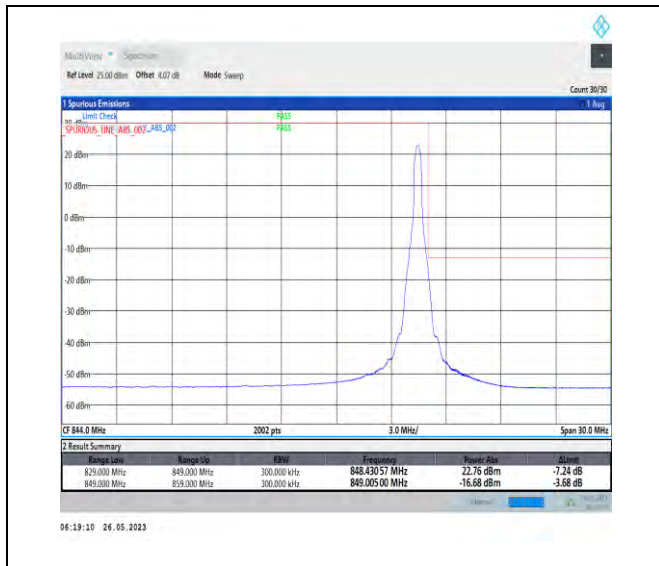


NTVN_N5_PC3_15_20_L_TID6



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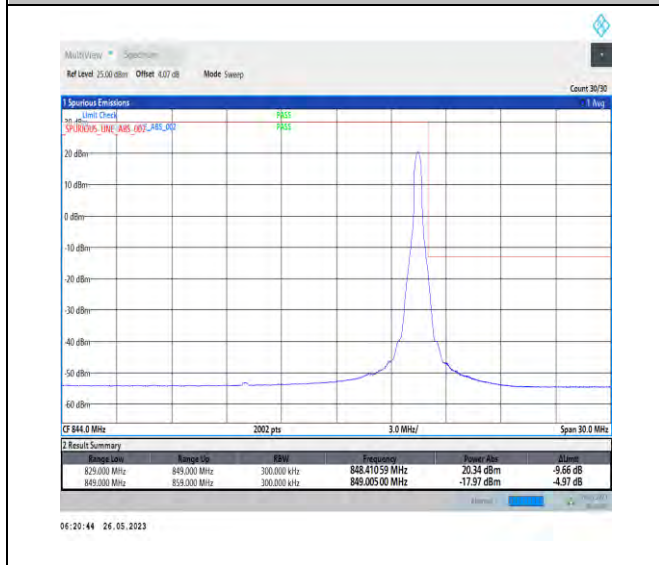
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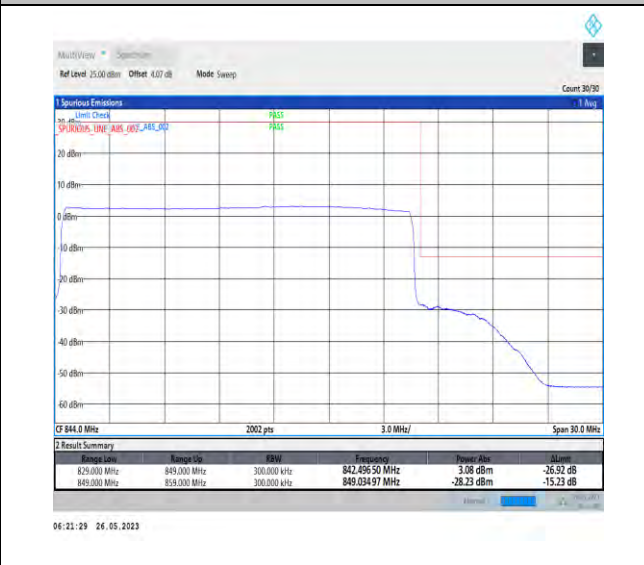
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NTVN_N5_PC3_15_20_H_TID3



NTVN_N5_PC3_15_20_H_TID5



NTVN_N5_PC3_15_20_H_TID6

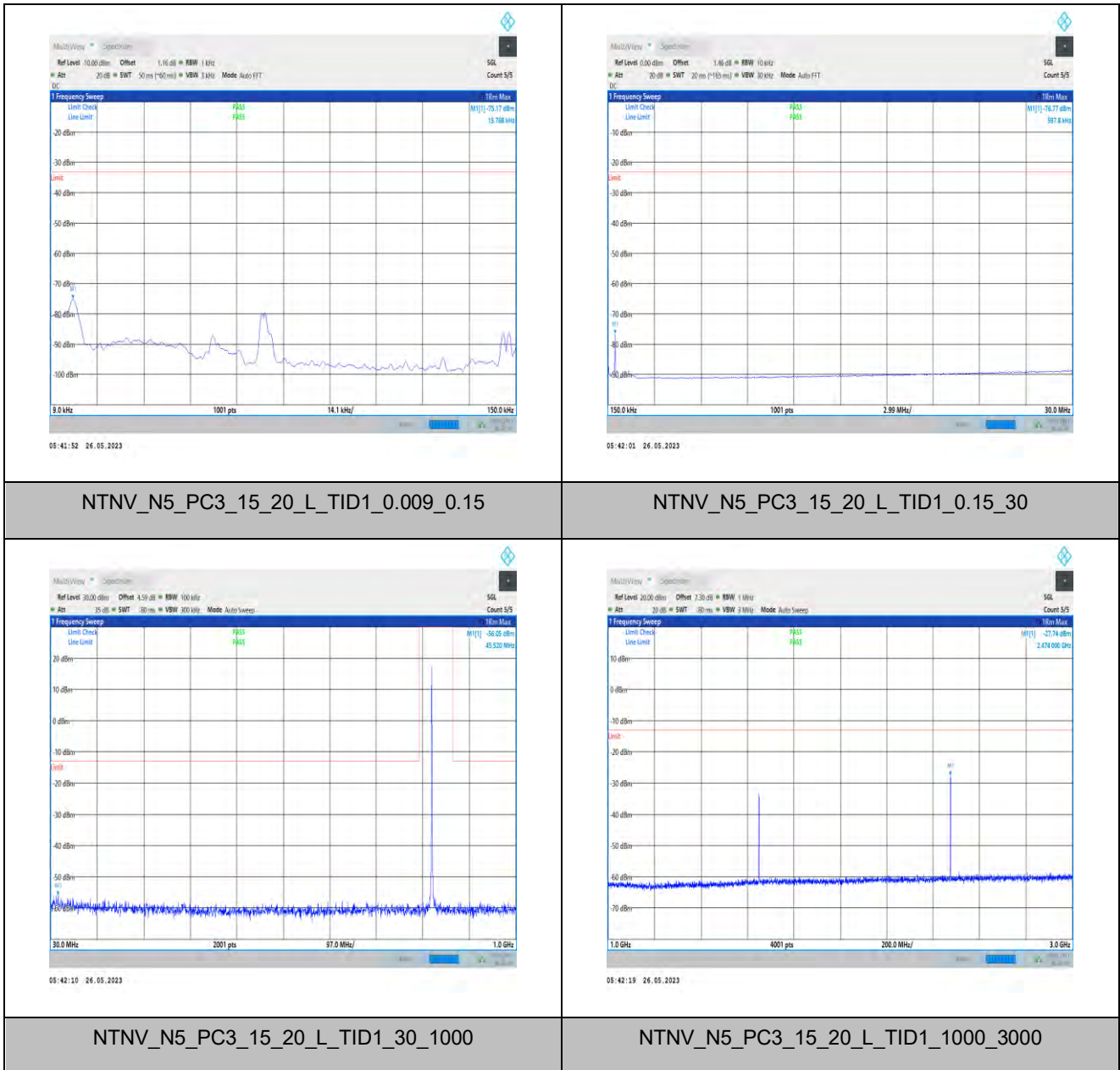


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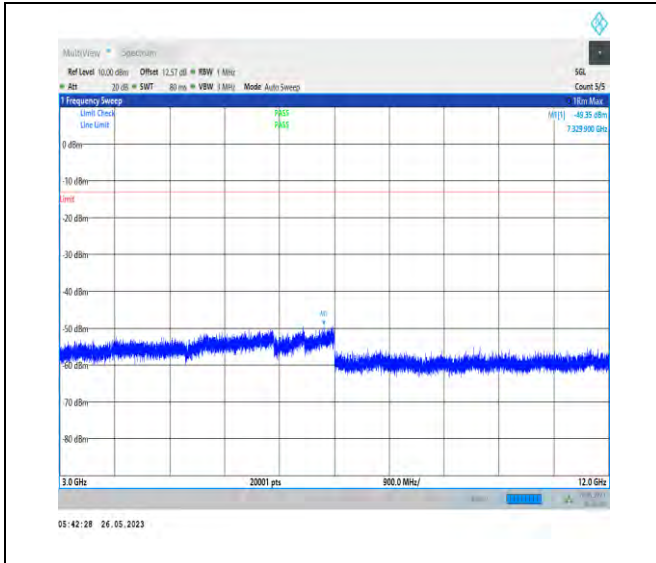
Conducted Spurious Emission for SA

Test Graphs

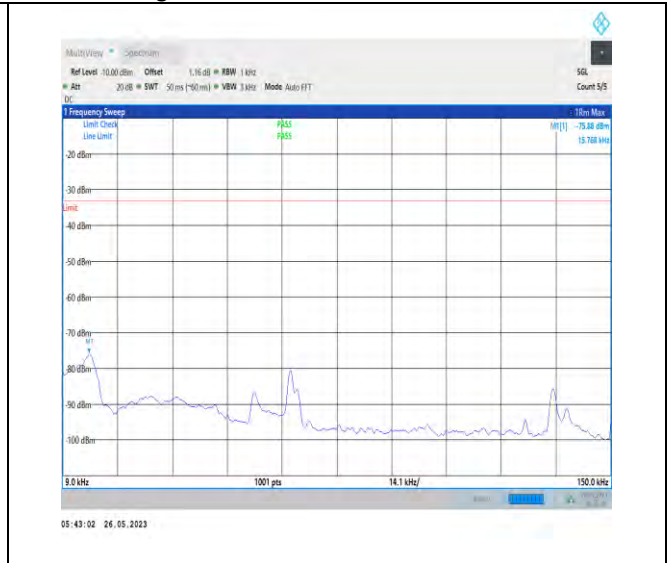


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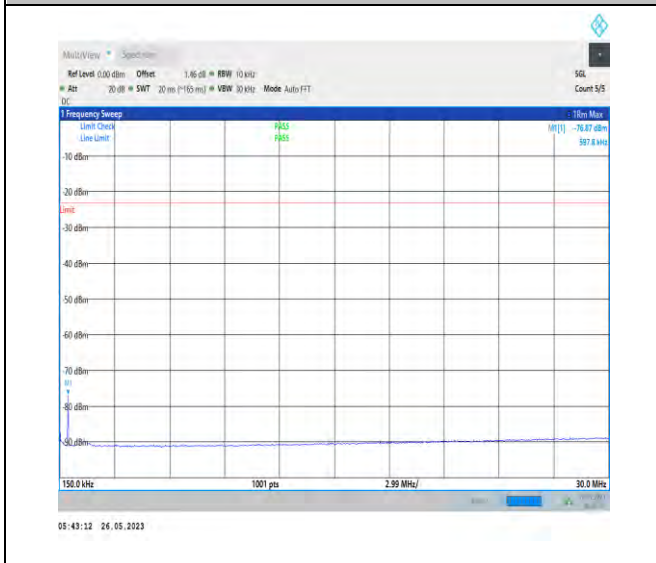
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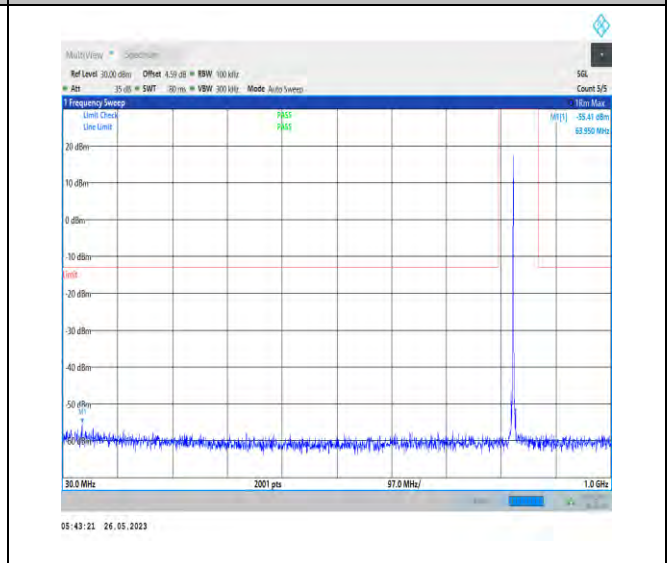
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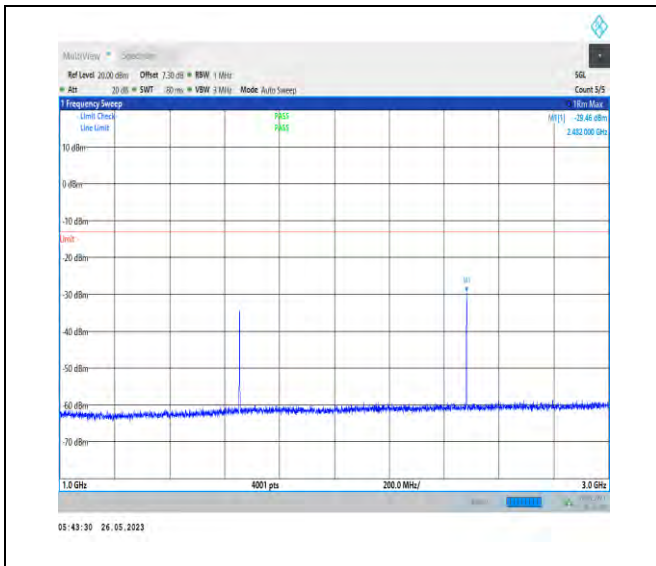
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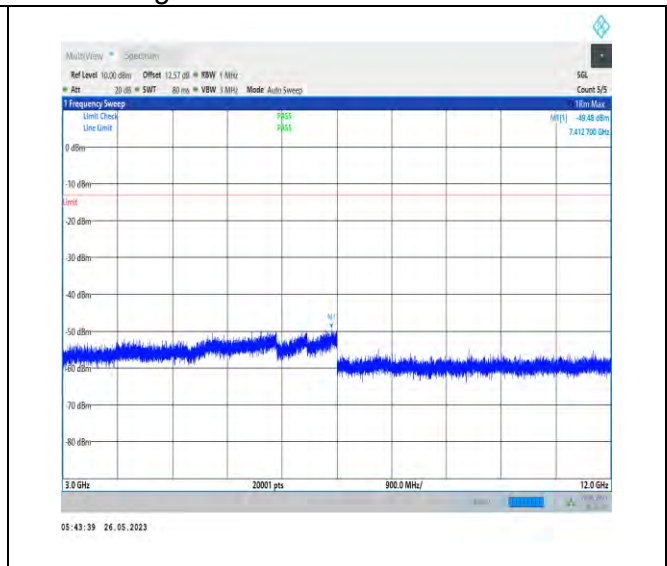
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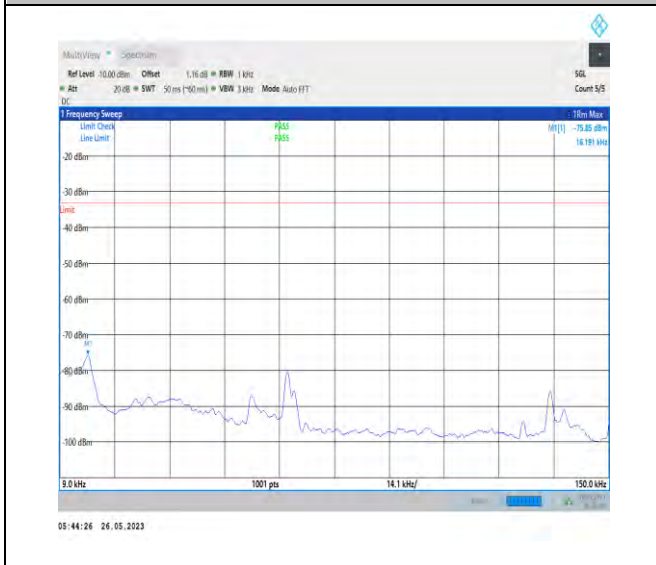
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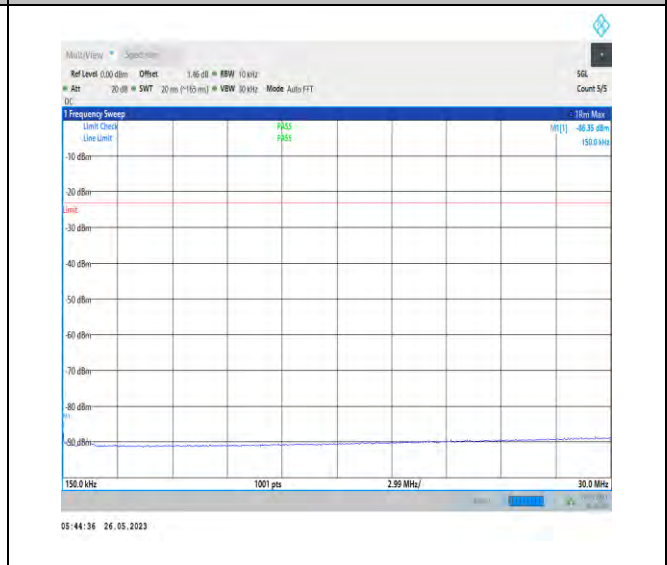
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NTNV_N5_PC3_15_20_M_TID1_3000_12000



NTNV_N5_PC3_15_20_H_TID1_0.009_0.15



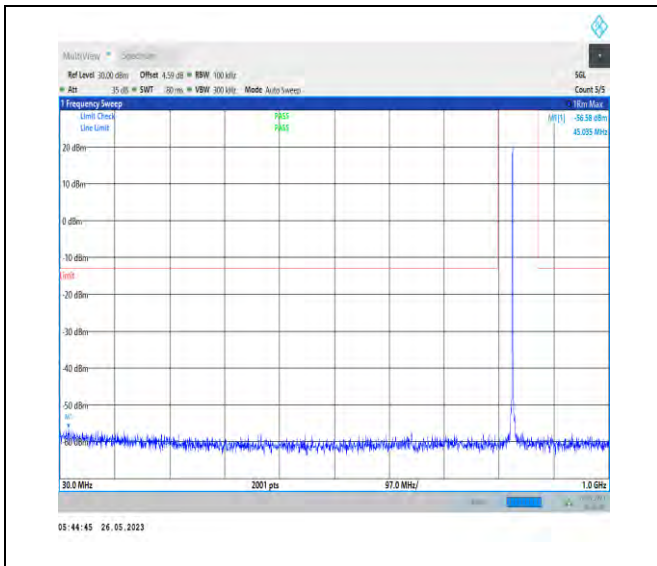
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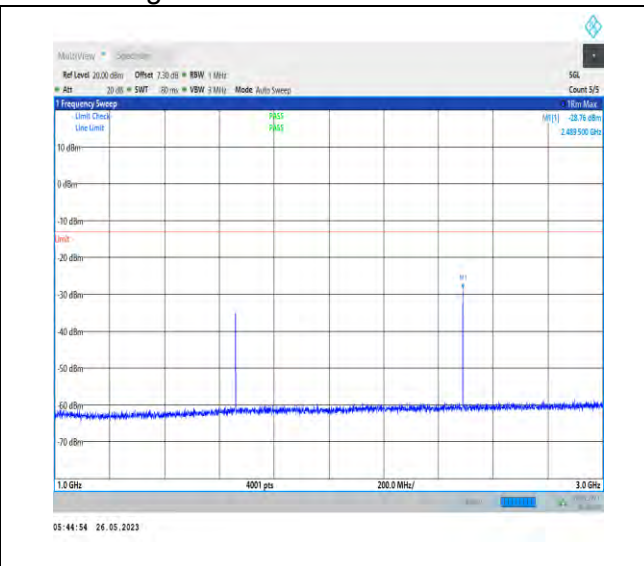
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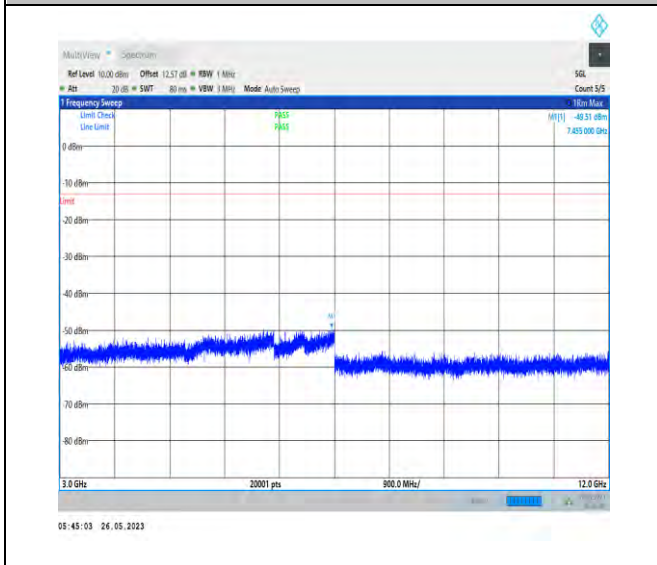
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NTNV_N5_PC3_15_20_H_TID1_30_1000



NTNV_N5_PC3_15_20_H_TID1_1000_3000



NTNV_N5_PC3_15_20_H_TID1_3000_12000



Field Strength of Spurious Radiation

Test Band = n5_20MHz _ TM1
 Test Channel = Low ANT11

| Data List | | | | | | | | | | |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1650.1800 | 43.97 | -48.22 | 25.37 | -74.14 | -13.00 | 61.14 | 211 | 170 | Horizontal |
| 2 | 2475.2700 | 43.14 | -47.31 | 27.69 | -71.75 | -13.00 | 58.75 | 154 | 341 | Horizontal |
| 3 | 3300.3600 | 43.16 | -46.68 | 29.55 | -69.22 | -13.00 | 56.22 | 172 | 360 | Horizontal |
| 4 | 4125.4500 | 40.87 | -45.92 | 30.99 | -69.32 | -13.00 | 56.32 | 136 | 360 | Horizontal |
| 5 | 4950.5400 | 41.76 | -45.70 | 32.74 | -66.45 | -13.00 | 53.45 | 259 | 350 | Horizontal |
| 6 | 5775.6300 | 40.22 | -44.64 | 33.66 | -66.02 | -13.00 | 53.02 | 199 | 302 | Horizontal |

| Data List | | | | | | | | | | |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1650.1800 | 43.74 | -48.22 | 25.37 | -74.37 | -13.00 | 61.37 | 244 | 150 | Vertical |
| 2 | 2475.2700 | 43.26 | -47.31 | 27.69 | -71.63 | -13.00 | 58.63 | 148 | 30 | Vertical |
| 3 | 3300.3600 | 43.33 | -46.68 | 29.55 | -69.05 | -13.00 | 56.05 | 175 | 56 | Vertical |
| 4 | 4125.4500 | 41.11 | -45.92 | 30.99 | -69.08 | -13.00 | 56.08 | 166 | 163 | Vertical |
| 5 | 4950.5400 | 42.01 | -45.70 | 32.74 | -66.20 | -13.00 | 53.20 | 219 | 334 | Vertical |
| 6 | 5775.6300 | 39.97 | -44.64 | 33.66 | -66.27 | -13.00 | 53.27 | 182 | 163 | Vertical |



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Test Band = n5_20MHz_TM1

Test Channel = Mid ANT11

| Data List | | | | | | | | | | |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1655.1800 | 44.11 | -48.21 | 25.37 | -73.99 | -13.00 | 60.99 | 230 | 66 | Horizontal |
| 2 | 2482.7700 | 43.04 | -47.30 | 27.71 | -71.81 | -13.00 | 58.81 | 140 | 92 | Horizontal |
| 3 | 3310.3600 | 42.73 | -46.66 | 29.54 | -69.65 | -13.00 | 56.65 | 172 | 251 | Horizontal |
| 4 | 4137.9500 | 41.86 | -45.92 | 31.01 | -68.32 | -13.00 | 55.32 | 185 | 237 | Horizontal |
| 5 | 4965.5400 | 41.31 | -45.73 | 32.78 | -66.90 | -13.00 | 53.90 | 192 | 3 | Horizontal |
| 6 | 5793.1300 | 39.83 | -44.65 | 33.72 | -66.36 | -13.00 | 53.36 | 140 | 360 | Horizontal |

| Data List | | | | | | | | | | |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1655.1800 | 43.99 | -48.21 | 25.37 | -74.11 | -13.00 | 61.11 | 123 | 357 | Vertical |
| 2 | 2482.7700 | 42.97 | -47.30 | 27.71 | -71.88 | -13.00 | 58.88 | 320 | 1 | Vertical |
| 3 | 3310.3600 | 42.59 | -46.66 | 29.54 | -69.79 | -13.00 | 56.79 | 142 | 256 | Vertical |
| 4 | 4137.9500 | 41.32 | -45.92 | 31.01 | -68.86 | -13.00 | 55.86 | 120 | 217 | Vertical |
| 5 | 4965.5400 | 41.53 | -45.73 | 32.78 | -66.68 | -13.00 | 53.68 | 156 | 18 | Vertical |
| 6 | 5793.1300 | 40.15 | -44.65 | 33.72 | -66.04 | -13.00 | 53.04 | 177 | 348 | Vertical |



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Test Band = n5_20MHz _ TM1
 Test Channel = High ANT11

| Data List | | | | | | | | | | |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1660.1800 | 43.52 | -48.21 | 25.37 | -74.57 | -13.00 | 61.57 | 255 | 251 | Horizontal |
| 2 | 2490.2700 | 43.04 | -47.29 | 27.74 | -71.77 | -13.00 | 58.77 | 188 | 198 | Horizontal |
| 3 | 3320.3600 | 43.42 | -46.65 | 29.53 | -68.96 | -13.00 | 55.96 | 146 | 93 | Horizontal |
| 4 | 4150.4500 | 41.12 | -45.93 | 31.03 | -69.04 | -13.00 | 56.04 | 192 | 80 | Horizontal |
| 5 | 4980.5400 | 41.27 | -45.77 | 32.83 | -66.93 | -13.00 | 53.93 | 173 | 39 | Horizontal |
| 6 | 5810.6300 | 39.51 | -44.69 | 33.77 | -66.67 | -13.00 | 53.67 | 215 | 304 | Horizontal |

| Data List | | | | | | | | | | |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1660.1800 | 43.98 | -48.21 | 25.37 | -74.11 | -13.00 | 61.11 | 244 | 1 | Vertical |
| 2 | 2490.2700 | 43.14 | -47.29 | 27.74 | -71.67 | -13.00 | 58.67 | 175 | 43 | Vertical |
| 3 | 3320.3600 | 43.36 | -46.65 | 29.53 | -69.02 | -13.00 | 56.02 | 142 | 335 | Vertical |
| 4 | 4150.4500 | 41.41 | -45.93 | 31.03 | -68.75 | -13.00 | 55.75 | 163 | 357 | Vertical |
| 5 | 4980.5400 | 40.78 | -45.77 | 32.83 | -67.42 | -13.00 | 54.42 | 259 | 0 | Vertical |
| 6 | 5810.6300 | 40.16 | -44.69 | 33.77 | -66.02 | -13.00 | 53.02 | 192 | 5 | Vertical |



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Test Band = NSA 7A-n5A_ TM1

Test Channel = Low

| Data List | | | | | | | | | | |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1650.1800 | 44.03 | -48.22 | 25.37 | -74.08 | -13.00 | 61.08 | 154 | 251 | Horizontal |
| 2 | 2475.2700 | 42.67 | -47.31 | 27.69 | -72.22 | -13.00 | 59.22 | 185 | 225 | Horizontal |
| 3 | 3300.3600 | 42.50 | -46.68 | 29.55 | -69.88 | -13.00 | 56.88 | 142 | 4 | Horizontal |
| 4 | 4125.4500 | 40.76 | -45.92 | 30.99 | -69.43 | -13.00 | 56.43 | 166 | 172 | Horizontal |
| 5 | 4950.5400 | 41.33 | -45.70 | 32.74 | -66.88 | -13.00 | 53.88 | 129 | 184 | Horizontal |
| 6 | 5775.6300 | 39.72 | -44.64 | 33.66 | -66.52 | -13.00 | 53.52 | 180 | 25 | Horizontal |

| Data List | | | | | | | | | | |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1650.1800 | 44.56 | -48.22 | 25.37 | -73.55 | -13.00 | 60.55 | 247 | 188 | Vertical |
| 2 | 2475.2700 | 42.29 | -47.31 | 27.69 | -72.60 | -13.00 | 59.60 | 126 | 228 | Vertical |
| 3 | 3300.3600 | 43.71 | -46.68 | 29.55 | -68.67 | -13.00 | 55.67 | 198 | 9 | Vertical |
| 4 | 4125.4500 | 40.59 | -45.92 | 30.99 | -69.60 | -13.00 | 56.60 | 145 | 357 | Vertical |
| 5 | 4950.5400 | 41.81 | -45.70 | 32.74 | -66.40 | -13.00 | 53.40 | 288 | 82 | Vertical |
| 6 | 5775.6300 | 39.87 | -44.64 | 33.66 | -66.37 | -13.00 | 53.37 | 190 | 294 | Vertical |



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Test Band = NSA 7A-n5A_ TM1

Test Channel = Mid

| Data List | | | | | | | | | | |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1655.1800 | 43.25 | -48.21 | 25.37 | -74.85 | -13.00 | 61.85 | 241 | 13 | Horizontal |
| 2 | 2482.7700 | 42.71 | -47.30 | 27.71 | -72.14 | -13.00 | 59.14 | 126 | 331 | Horizontal |
| 3 | 3310.3600 | 42.82 | -46.66 | 29.54 | -69.56 | -13.00 | 56.56 | 289 | 264 | Horizontal |
| 4 | 4137.9500 | 41.01 | -45.92 | 31.01 | -69.17 | -13.00 | 56.17 | 191 | 79 | Horizontal |
| 5 | 4965.5400 | 41.44 | -45.73 | 32.78 | -66.77 | -13.00 | 53.77 | 170 | 351 | Horizontal |
| 6 | 5793.1300 | 39.32 | -44.65 | 33.72 | -66.87 | -13.00 | 53.87 | 152 | 360 | Horizontal |

| Data List | | | | | | | | | | |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1655.1800 | 43.80 | -48.21 | 25.37 | -74.30 | -13.00 | 61.30 | 244 | 0 | Vertical |
| 2 | 2482.7700 | 42.75 | -47.30 | 27.71 | -72.10 | -13.00 | 59.10 | 147 | 294 | Vertical |
| 3 | 3310.3600 | 42.51 | -46.66 | 29.54 | -69.87 | -13.00 | 56.87 | 172 | 17 | Vertical |
| 4 | 4137.9500 | 40.58 | -45.92 | 31.01 | -69.60 | -13.00 | 56.60 | 129 | 189 | Vertical |
| 5 | 4965.5400 | 40.79 | -45.73 | 32.78 | -67.42 | -13.00 | 54.42 | 191 | 68 | Vertical |
| 6 | 5793.1300 | 39.93 | -44.65 | 33.72 | -66.26 | -13.00 | 53.26 | 186 | 242 | Vertical |



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Test Band = NSA 7A-n5A_ TM1

Test Channel = High

| Data List | | | | | | | | | | |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1660.1800 | 43.19 | -48.21 | 25.37 | -74.90 | -13.00 | 61.90 | 244 | 4 | Horizontal |
| 2 | 2490.2700 | 42.34 | -47.29 | 27.74 | -72.47 | -13.00 | 59.47 | 156 | 26 | Horizontal |
| 3 | 3320.3600 | 42.67 | -46.65 | 29.53 | -69.71 | -13.00 | 56.71 | 132 | 318 | Horizontal |
| 4 | 4150.4500 | 41.23 | -45.93 | 31.03 | -68.93 | -13.00 | 55.93 | 180 | 93 | Horizontal |
| 5 | 4980.5400 | 41.60 | -45.77 | 32.83 | -66.60 | -13.00 | 53.60 | 171 | 225 | Horizontal |
| 6 | 5810.6300 | 39.49 | -44.69 | 33.77 | -66.69 | -13.00 | 53.69 | 192 | 331 | Horizontal |

| Data List | | | | | | | | | | |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 1660.1800 | 43.39 | -48.21 | 25.37 | -74.70 | -13.00 | 61.70 | 274 | 188 | Vertical |
| 2 | 2490.2700 | 42.36 | -47.29 | 27.74 | -72.45 | -13.00 | 59.45 | 184 | 4 | Vertical |
| 3 | 3320.3600 | 43.67 | -46.65 | 29.53 | -68.71 | -13.00 | 55.71 | 176 | 281 | Vertical |
| 4 | 4150.4500 | 41.55 | -45.93 | 31.03 | -68.61 | -13.00 | 55.61 | 192 | 335 | Vertical |
| 5 | 4980.5400 | 40.70 | -45.77 | 32.83 | -67.50 | -13.00 | 54.50 | 158 | 214 | Vertical |
| 6 | 5810.6300 | 39.82 | -44.69 | 33.77 | -66.36 | -13.00 | 53.36 | 173 | 162 | Vertical |

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

| Voltage | | | | | | | | | | | |
|---------|-----|-----------|-----------------|---------|------------|---------|-------------|----------------|-----------------|-------|---------|
| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Voltage | Temperature | Deviation (Hz) | Deviation (ppm) | Limit | Verdict |
| N5 | 15 | 20 | DFT -PI2BPSK | M | Outer_Full | VH | NT | 0.500000 | 0.000598 | ±2.5 | PASS |
| N5 | 15 | 20 | DFT -PI2BPSK | M | Outer_Full | VN | NT | 2.200000 | 0.002630 | ±2.5 | PASS |
| N5 | 15 | 20 | DFT -PI2BPSK | M | Outer_Full | VL | NT | 3.600000 | 0.004304 | ±2.5 | PASS |
| N5 | 15 | 20 | CP -QPSK | M | Outer_Full | VH | NT | -1.600000 | -0.001913 | ±2.5 | PASS |
| N5 | 15 | 20 | CP -QPSK | M | Outer_Full | VN | NT | -0.400000 | -0.000478 | ±2.5 | PASS |
| N5 | 15 | 20 | CP -QPSK | M | Outer_Full | VL | NT | -3.600000 | -0.004304 | ±2.5 | PASS |



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Frequency Error VS. Temperature

| Temperature | | | | | | | | | | | |
|-------------|-----|-----------|-----------------|---------|------------|---------|-------------|----------------|-----------------|-------|---------|
| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Voltage | Temperature | Deviation (Hz) | Deviation (ppm) | Limit | Verdict |
| N5 | 15 | 20 | DFT -PI2BPSK | M | Outer_Full | NV | -30 | -0.100000 | -0.000120 | ±2.5 | PASS |
| N5 | 15 | 20 | DFT -PI2BPSK | M | Outer_Full | NV | -20 | 2.100000 | 0.002510 | ±2.5 | PASS |
| N5 | 15 | 20 | DFT -PI2BPSK | M | Outer_Full | NV | -10 | 0.100000 | 0.000120 | ±2.5 | PASS |
| N5 | 15 | 20 | DFT -PI2BPSK | M | Outer_Full | NV | 0 | 3.400000 | 0.004065 | ±2.5 | PASS |
| N5 | 15 | 20 | DFT -PI2BPSK | M | Outer_Full | NV | 10 | 0.500000 | 0.000598 | ±2.5 | PASS |
| N5 | 15 | 20 | DFT -PI2BPSK | M | Outer_Full | NV | 20 | 3.000000 | 0.003586 | ±2.5 | PASS |
| N5 | 15 | 20 | DFT -PI2BPSK | M | Outer_Full | NV | 30 | 5.200000 | 0.006216 | ±2.5 | PASS |
| N5 | 15 | 20 | DFT -PI2BPSK | M | Outer_Full | NV | 40 | 2.600000 | 0.003108 | ±2.5 | PASS |
| N5 | 15 | 20 | DFT -PI2BPSK | M | Outer_Full | NV | 50 | -0.100000 | -0.000120 | ±2.5 | PASS |
| N5 | 15 | 20 | CP -QPSK | M | Outer_Full | NV | -30 | -1.700000 | -0.002032 | ±2.5 | PASS |
| N5 | 15 | 20 | CP -QPSK | M | Outer_Full | NV | -20 | -3.700000 | -0.004423 | ±2.5 | PASS |
| N5 | 15 | 20 | CP -QPSK | M | Outer_Full | NV | -10 | -3.000000 | -0.003586 | ±2.5 | PASS |
| N5 | 15 | 20 | CP -QPSK | M | Outer_Full | NV | 0 | -3.700000 | -0.004423 | ±2.5 | PASS |
| N5 | 15 | 20 | CP -QPSK | M | Outer_Full | NV | 10 | -2.700000 | -0.003228 | ±2.5 | PASS |
| N5 | 15 | 20 | CP -QPSK | M | Outer_Full | NV | 20 | -2.600000 | -0.003108 | ±2.5 | PASS |



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| | | | | | | | | | | | |
|----|----|----|-------------|---|------------|----|----|-----------|-----------|------|------|
| N5 | 15 | 20 | CP -QPSK | M | Outer_Full | NV | 30 | -1.100000 | -0.001315 | ±2.5 | PASS |
| N5 | 15 | 20 | CP -QPSK | M | Outer_Full | NV | 40 | -3.700000 | -0.004423 | ±2.5 | PASS |
| N5 | 15 | 20 | CP -QPSK | M | Outer_Full | NV | 50 | -2.500000 | -0.002989 | ±2.5 | PASS |

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