

Appendix B.29

NR Band n77(3450-3550)



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

Ant2:

| Band | SCS | Band width | Modulation | Channel | RB Config | Power (dBm) | EIRP (dBm) | Limit | Verdict |
|---------------|-----|------------|-------------|---------|-----------------|-------------|------------|-------|---------|
| N77-3450-3550 | 30 | 10 | DFT-PI2BPSK | L | Inner_1RB_Left | 24.04 | 26.30 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-PI2BPSK | L | Inner_1RB_Right | 23.80 | 26.06 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-PI2BPSK | L | Outer_Full | 24.04 | 26.30 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-QPSK | L | Inner_1RB_Left | 24.04 | 26.30 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-QPSK | L | Inner_1RB_Right | 23.96 | 26.22 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-QPSK | L | Outer_Full | 24.03 | 26.29 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-16QAM | L | Inner_1RB_Left | 23.99 | 26.25 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-16QAM | L | Inner_1RB_Right | 24.06 | 26.32 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-16QAM | L | Outer_Full | 23.08 | 25.34 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-64QAM | L | Inner_1RB_Left | 22.50 | 24.76 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-64QAM | L | Inner_1RB_Right | 22.63 | 24.89 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-64QAM | L | Outer_Full | 22.42 | 24.68 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-256QAM | L | Inner_1RB_Left | 20.07 | 22.33 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-256QAM | L | Inner_1RB_Right | 20.09 | 22.35 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-256QAM | L | Outer_Full | 20.42 | 22.68 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-PI2BPSK | M | Inner_1RB_Left | 23.85 | 26.11 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-PI2BPSK | M | Inner_1RB_Right | 23.91 | 26.17 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-PI2BPSK | M | Outer_Full | 23.83 | 26.09 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-QPSK | M | Inner_1RB_Left | 23.86 | 26.12 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-QPSK | M | Inner_1RB_Right | 23.96 | 26.22 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-QPSK | M | Outer_Full | 23.83 | 26.09 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-16QAM | M | Inner_1RB_Left | 23.77 | 26.03 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-16QAM | M | Inner_1RB_Right | 23.70 | 25.96 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-16QAM | M | Outer_Full | 23.10 | 25.36 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-64QAM | M | Inner_1RB_Left | 22.47 | 24.73 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-64QAM | M | Inner_1RB_Right | 22.60 | 24.86 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-64QAM | M | Outer_Full | 22.41 | 24.67 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-256QAM | M | Inner_1RB_Left | 20.10 | 22.36 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-256QAM | M | Inner_1RB_Right | 20.18 | 22.44 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | DFT-256QAM | M | Outer_Full | 20.29 | 22.55 | 30 | PASS |



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Table with 10 columns: Test ID, Sample No., Lot No., Modulation, Coding Rate, Channel, SNR, BER, Error Count, Result. Rows include various modulation schemes like DFT-PI2BPSK, DFT-QPSK, DFT-16QAM, DFT-64QAM, DFT-256QAM.



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Table with 10 columns: Test ID, Sample No., Lot No., Modulation, Coding Rate, Channel, SNR, BER, Error Count, Result. Rows include various modulation schemes like DFT-16QAM, DFT-64QAM, DFT-256QAM, DFT-PI2BPSK, and DFT-QPSK.



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Table with 10 columns: Test ID, Sample No., Quantity, Modulation, Bandwidth, Test Method, SNR, BER, Pass/Fail, and Remarks. Contains 40 rows of test results for various modulation schemes like DFT-256QAM, DFT-PI2BPSK, and DFT-QPSK.



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Table with 10 columns: ID, Sample No., Test No., Modulation, Bandwidth, Test Method, Mean, Std Dev, Pass/Fail, and Result. Contains 40 rows of test data.



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Table with 10 columns: Test ID, Sample No., Test No., Modulation, Bandwidth, Test Method, Mean, Std Dev, Pass/Fail, and Result. Contains 40 rows of test data.



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Table with 10 columns: Test ID, Sample No., Test No., Modulation, Coding Rate, Test Method, SNR, BER, Error Count, Result. Rows include various modulation schemes like DFT-QPSK, DFT-16QAM, DFT-64QAM, DFT-256QAM, and DFT-PI2BPSK.



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Table with 10 columns: Test ID, Sample No., Lot No., Modulation, Coding Rate, Channel, SNR, BER, Error Count, Result. Rows include various modulation schemes like DFT-QPSK, DFT-16QAM, DFT-64QAM, DFT-256QAM, and DFT-PI2BPSK.



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Table with 10 columns: Test ID, Sample No., Lot No., Modulation, Bandwidth, Modulation, SNR, BER, Error Rate, Result. Rows include various modulation schemes like DFT-QPSK, DFT-16QAM, DFT-64QAM, DFT-256QAM, and DFT-PI2BPSK.



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| | | | | | | | | | |
|---------------|----|-----|-------------|---|-----------------|-------|-------|----|------|
| N77-3450-3550 | 30 | 90 | DFT-PI2BPSK | H | Outer_Full | 23.86 | 26.12 | 30 | PASS |
| N77-3450-3550 | 30 | 90 | DFT-QPSK | H | Inner_1RB_Left | 24.08 | 26.34 | 30 | PASS |
| N77-3450-3550 | 30 | 90 | DFT-QPSK | H | Inner_1RB_Right | 23.62 | 25.88 | 30 | PASS |
| N77-3450-3550 | 30 | 90 | DFT-QPSK | H | Outer_Full | 24.08 | 26.34 | 30 | PASS |
| N77-3450-3550 | 30 | 90 | DFT-16QAM | H | Inner_1RB_Left | 23.82 | 26.08 | 30 | PASS |
| N77-3450-3550 | 30 | 90 | DFT-16QAM | H | Inner_1RB_Right | 23.68 | 25.94 | 30 | PASS |
| N77-3450-3550 | 30 | 90 | DFT-16QAM | H | Outer_Full | 22.85 | 25.11 | 30 | PASS |
| N77-3450-3550 | 30 | 90 | DFT-64QAM | H | Inner_1RB_Left | 22.51 | 24.77 | 30 | PASS |
| N77-3450-3550 | 30 | 90 | DFT-64QAM | H | Inner_1RB_Right | 22.35 | 24.61 | 30 | PASS |
| N77-3450-3550 | 30 | 90 | DFT-64QAM | H | Outer_Full | 22.34 | 24.60 | 30 | PASS |
| N77-3450-3550 | 30 | 90 | DFT-256QAM | H | Inner_1RB_Left | 19.66 | 21.92 | 30 | PASS |
| N77-3450-3550 | 30 | 90 | DFT-256QAM | H | Inner_1RB_Right | 19.30 | 21.56 | 30 | PASS |
| N77-3450-3550 | 30 | 90 | DFT-256QAM | H | Outer_Full | 20.62 | 22.88 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-PI2BPSK | L | Inner_1RB_Left | 24.24 | 26.50 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-PI2BPSK | L | Inner_1RB_Right | 23.63 | 25.89 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-PI2BPSK | L | Outer_Full | 24.03 | 26.29 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-QPSK | L | Inner_1RB_Left | 24.34 | 26.60 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-QPSK | L | Inner_1RB_Right | 23.66 | 25.92 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-QPSK | L | Outer_Full | 24.07 | 26.33 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-16QAM | L | Inner_1RB_Left | 24.31 | 26.57 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-16QAM | L | Inner_1RB_Right | 23.61 | 25.87 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-16QAM | L | Outer_Full | 22.91 | 25.17 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-64QAM | L | Inner_1RB_Left | 22.77 | 25.03 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-64QAM | L | Inner_1RB_Right | 22.22 | 24.48 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-64QAM | L | Outer_Full | 22.37 | 24.63 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-256QAM | L | Inner_1RB_Left | 19.76 | 22.02 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-256QAM | L | Inner_1RB_Right | 19.40 | 21.66 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-256QAM | L | Outer_Full | 20.32 | 22.58 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-PI2BPSK | M | Inner_1RB_Left | 24.31 | 26.57 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-PI2BPSK | M | Inner_1RB_Right | 23.72 | 25.98 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-PI2BPSK | M | Outer_Full | 23.81 | 26.07 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-QPSK | M | Inner_1RB_Left | 24.15 | 26.41 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-QPSK | M | Inner_1RB_Right | 23.95 | 26.21 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-QPSK | M | Outer_Full | 23.82 | 26.08 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-16QAM | M | Inner_1RB_Left | 24.06 | 26.32 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-16QAM | M | Inner_1RB_Right | 23.66 | 25.92 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-16QAM | M | Outer_Full | 22.91 | 25.17 | 30 | PASS |



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| | | | | | | | | | |
|---------------|----|-----|-------------|---|-----------------|-------|-------|----|------|
| N77-3450-3550 | 30 | 100 | DFT-64QAM | M | Inner_1RB_Left | 22.68 | 24.94 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-64QAM | M | Inner_1RB_Right | 22.32 | 24.58 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-64QAM | M | Outer_Full | 22.38 | 24.64 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-256QAM | M | Inner_1RB_Left | 20.10 | 22.36 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-256QAM | M | Inner_1RB_Right | 19.31 | 21.57 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-256QAM | M | Outer_Full | 20.51 | 22.77 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-PI2BPSK | H | Inner_1RB_Left | 24.15 | 26.41 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-PI2BPSK | H | Inner_1RB_Right | 23.83 | 26.09 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-PI2BPSK | H | Outer_Full | 23.83 | 26.09 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-QPSK | H | Inner_1RB_Left | 24.16 | 26.42 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-QPSK | H | Inner_1RB_Right | 23.65 | 25.91 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-QPSK | H | Outer_Full | 23.91 | 26.17 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-16QAM | H | Inner_1RB_Left | 24.11 | 26.37 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-16QAM | H | Inner_1RB_Right | 23.65 | 25.91 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-16QAM | H | Outer_Full | 22.88 | 25.14 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-64QAM | H | Inner_1RB_Left | 22.76 | 25.02 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-64QAM | H | Inner_1RB_Right | 22.19 | 24.45 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-64QAM | H | Outer_Full | 22.35 | 24.61 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-256QAM | H | Inner_1RB_Left | 20.06 | 22.32 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-256QAM | H | Inner_1RB_Right | 19.39 | 21.65 | 30 | PASS |
| N77-3450-3550 | 30 | 100 | DFT-256QAM | H | Outer_Full | 20.70 | 22.96 | 30 | PASS |



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Effective (Isotropic) Radiated Power Output Data for MIMO

Test Result

| Band | SCS | Band width | Modulation | Channel | RB Config | Power Ant2 | Power Ant4 | Total Power | ERIP | Limit | Verdict |
|---------------|-----|------------|------------|---------|-----------------|------------|------------|-------------|-------|-------|---------|
| N77-3450-3550 | 30 | 10 | CP-QPSK | L | Inner_1RB_Left | 24.01 | 23.57 | 26.81 | 29.06 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-QPSK | L | Inner_1RB_Right | 23.72 | 23.83 | 26.79 | 29.04 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-QPSK | L | Outer_Full | 22.34 | 22.15 | 25.26 | 27.51 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-16QAM | L | Edge_1RB_Left | 21.92 | 21.54 | 24.74 | 26.99 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-16QAM | L | Edge_1RB_Right | 21.85 | 21.44 | 24.66 | 26.91 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-16QAM | L | Outer_Full | 22.41 | 22.22 | 25.33 | 27.58 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-64QAM | L | Edge_1RB_Left | 21.95 | 21.55 | 24.76 | 27.01 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-64QAM | L | Edge_1RB_Right | 21.85 | 21.59 | 24.73 | 26.98 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-64QAM | L | Outer_Full | 21.82 | 21.74 | 24.79 | 27.04 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-256QAM | L | Edge_1RB_Left | 19.07 | 18.58 | 21.84 | 24.09 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-256QAM | L | Edge_1RB_Right | 18.91 | 18.56 | 21.75 | 24 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-256QAM | L | Outer_Full | 18.86 | 18.59 | 21.74 | 23.99 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-QPSK | M | Inner_1RB_Left | 23.75 | 23.79 | 26.78 | 29.03 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-QPSK | M | Inner_1RB_Right | 23.93 | 24 | 26.98 | 29.23 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-QPSK | M | Outer_Full | 22.29 | 22.35 | 25.33 | 27.58 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-16QAM | M | Edge_1RB_Left | 21.86 | 21.78 | 24.83 | 27.08 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-16QAM | M | Edge_1RB_Right | 21.79 | 21.64 | 24.73 | 26.98 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-16QAM | M | Outer_Full | 22.33 | 22.35 | 25.35 | 27.6 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-64QAM | M | Edge_1RB_Left | 21.91 | 21.8 | 24.87 | 27.12 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-64QAM | M | Edge_1RB_Right | 21.84 | 21.71 | 24.79 | 27.04 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-64QAM | M | Outer_Full | 21.76 | 21.92 | 24.85 | 27.1 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-256QAM | M | Edge_1RB_Left | 19 | 18.77 | 21.90 | 24.15 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-256QAM | M | Edge_1RB_Right | 18.9 | 18.66 | 21.79 | 24.04 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-256QAM | M | Outer_Full | 18.76 | 18.8 | 21.79 | 24.04 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-QPSK | H | Inner_1RB_Left | 23.65 | 23.7 | 26.69 | 28.94 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-QPSK | H | Inner_1RB_Right | 23.85 | 23.98 | 26.93 | 29.18 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-QPSK | H | Outer_Full | 22.24 | 22.31 | 25.29 | 27.54 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-16QAM | H | Edge_1RB_Left | 21.77 | 21.73 | 24.76 | 27.01 | 30 | PASS |
| N77-3450-3550 | 30 | 10 | CP-16QAM | H | Edge_1RB_Right | 21.69 | 21.56 | 24.64 | 26.89 | 30 | PASS |



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Table with 12 columns: Item ID, Sample No., Test No., Standard, Method, Parameter, and 5 numerical results, and Pass/Fail status. Contains 40 rows of test data.



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Table with 12 columns: Test ID, Modulation, Bandwidth, Modulation, Constellation, Frequency, SNR, SNR, SNR, SNR, Pass/Fail, Pass/Fail. Contains 40 rows of test results.



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Table with 12 columns: Test ID, Sample No., Lot No., Standard, Method, Parameter, Value 1, Value 2, Value 3, Value 4, Sample No., Result. Contains 40 rows of test data.



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Table with 12 columns: ID, S1, S2, Modem, Modulation, Direction, TX Power, RX Power, TX Error, RX Error, S1, Result. Contains 40 rows of test data.



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Table with 13 columns: Test ID, Frequency, Bandwidth, Modulation, Coding Rate, Channel, SNR, BER, Error Rate, etc. Rows contain test results for various configurations like CP-256QAM, CP-QPSK, CP-16QAM, CP-64QAM.



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Table with 12 columns: Test ID, Sample No., Lot No., Standard, Modulation, Direction, Value 1, Value 2, Value 3, Value 4, Sample No., Result. Contains 40 rows of test data.



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Table with 12 columns: Test ID, Modulation, Bandwidth, Modulation, Constellation, Carrier, SNR, SNR, SNR, SNR, SNR, Result. Rows include various modulation schemes like CP-QPSK, CP-16QAM, CP-64QAM, CP-256QAM, and CP-64QAM with different carrier and SNR values.



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Table with 13 columns: Test ID, Modulation, Bandwidth, Modulation, Constellation, Modulation, SNR, SNR, SNR, SNR, SNR, SNR, Result. Rows include various modulation schemes like CP-QPSK, CP-16QAM, CP-64QAM, CP-256QAM across different SNR levels and modulation types (L, M, H).



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Table with 12 columns: Test ID, Sample No., Quantity, Modulation, Bandwidth, Test Method, Mean, Min, Max, Std Dev, Pass/Fail, Remarks. Contains 40 rows of test data for various modulation schemes like CP-QPSK, CP-16QAM, and CP-64QAM.



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Field Strength of Spurious Radiation(Worse)

Test Band = SA Band77_ TM1_ 100MHz
 Test Channel = Mid

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 8252.025 | 39.84 | -42.00 | 36.67 | -60.75 | -13.00 | 47.75 | 166 | 356 | Horizontal |
| 2 | 9601.55 | 36.62 | -39.20 | 37.44 | -60.40 | -13.00 | 47.40 | 251 | 356 | Horizontal |
| 3 | 10109.275 | 35.64 | -38.75 | 38.25 | -60.12 | -13.00 | 47.12 | 145 | 150 | Horizontal |
| 4 | 11217.875 | 33.61 | -36.71 | 38.72 | -59.64 | -13.00 | 46.64 | 188 | 315 | Horizontal |
| 5 | 12083.825 | 32.86 | -37.19 | 38.83 | -60.76 | -13.00 | 47.76 | 136 | 356 | Horizontal |
| 6 | 13128.025 | 32.38 | -36.60 | 39.33 | -60.15 | -13.00 | 47.15 | 216 | 0 | Horizontal |

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 7737.975 | 40.23 | -42.81 | 36.70 | -61.14 | -13.00 | 48.14 | 154 | 358 | Vertical |
| 2 | 8431.425 | 38.88 | -41.51 | 36.58 | -61.30 | -13.00 | 48.30 | 177 | 360 | Vertical |
| 3 | 9182.375 | 37.75 | -40.03 | 36.65 | -60.89 | -13.00 | 47.89 | 166 | 360 | Vertical |
| 4 | 10093.175 | 35.38 | -38.75 | 38.25 | -60.38 | -13.00 | 47.38 | 251 | 301 | Vertical |
| 5 | 10712.45 | 34.02 | -37.61 | 38.56 | -60.30 | -13.00 | 47.30 | 186 | 352 | Vertical |
| 6 | 12655.375 | 33.12 | -37.00 | 39.00 | -60.14 | -13.00 | 47.14 | 159 | 44 | Vertical |



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Test Band = SA Band77 ULMIMO_ TM1_100MHz
Test Channel = Mid 3450-3550

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 8758.025 | 38.54 | -41.22 | 36.42 | -61.52 | -13.00 | 48.52 | 158 | 330 | Horizontal |
| 2 | 9609.025 | 36.86 | -39.23 | 37.46 | -60.17 | -13.00 | 47.17 | 174 | 254 | Horizontal |
| 3 | 10464.05 | 35.45 | -38.75 | 38.43 | -60.12 | -13.00 | 47.12 | 158 | 134 | Horizontal |
| 4 | 11270.2 | 33.35 | -37.04 | 38.73 | -60.23 | -13.00 | 47.23 | 196 | 269 | Horizontal |
| 5 | 12489.2 | 32.83 | -36.95 | 38.95 | -60.44 | -13.00 | 47.44 | 256 | 3 | Horizontal |
| 6 | 13965.225 | 31.80 | -35.05 | 40.84 | -57.68 | -13.00 | 44.68 | 136 | 299 | Horizontal |

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 8368.175 | 40.02 | -41.53 | 36.62 | -60.15 | -13.00 | 47.15 | 187 | 182 | Vertical |
| 2 | 9997.15 | 35.98 | -39.37 | 38.19 | -60.46 | -13.00 | 47.46 | 145 | 30 | Vertical |
| 3 | 10717.05 | 34.46 | -37.66 | 38.56 | -59.90 | -13.00 | 46.90 | 163 | 360 | Vertical |
| 4 | 11603.125 | 32.87 | -36.95 | 38.76 | -60.58 | -13.00 | 47.58 | 256 | 225 | Vertical |
| 5 | 13343.65 | 32.61 | -36.61 | 39.72 | -59.54 | -13.00 | 46.54 | 155 | 302 | Vertical |
| 6 | 14895 | 32.38 | -35.12 | 41.26 | -56.75 | -13.00 | 43.75 | 192 | 151 | Vertical |



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Test Band = NSA 2A-N77A_ TM1
Test Channel = Mid 3450-3550

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 7863.9 | 40.09 | -42.68 | 36.75 | -61.11 | -13.00 | 48.11 | 165 | 76 | Horizontal |
| 2 | 8399.225 | 39.73 | -41.37 | 36.60 | -60.30 | -13.00 | 47.30 | 182 | 256 | Horizontal |
| 3 | 9607.875 | 36.72 | -39.22 | 37.45 | -60.31 | -13.00 | 47.31 | 145 | 46 | Horizontal |
| 4 | 10713.6 | 34.19 | -37.62 | 38.56 | -60.14 | -13.00 | 47.14 | 199 | 46 | Horizontal |
| 5 | 11702.025 | 32.15 | -36.11 | 38.77 | -60.45 | -13.00 | 47.45 | 215 | 212 | Horizontal |
| 6 | 13712.225 | 33.49 | -36.02 | 40.38 | -57.41 | -13.00 | 44.41 | 186 | 104 | Horizontal |

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 8413.6 | 40.07 | -41.43 | 36.59 | -60.03 | -13.00 | 47.03 | 155 | 256 | Vertical |
| 2 | 9330.15 | 37.31 | -40.02 | 36.93 | -61.05 | -13.00 | 48.05 | 142 | 344 | Vertical |
| 3 | 10243.825 | 35.66 | -39.14 | 38.32 | -60.42 | -13.00 | 47.42 | 175 | 13 | Vertical |
| 4 | 10960.275 | 33.45 | -37.68 | 38.68 | -60.81 | -13.00 | 47.81 | 186 | 120 | Vertical |
| 5 | 12048.75 | 32.87 | -37.18 | 38.81 | -60.76 | -13.00 | 47.76 | 223 | 359 | Vertical |
| 6 | 13719.7 | 33.26 | -36.04 | 40.40 | -57.65 | -13.00 | 44.65 | 162 | 44 | Vertical |



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Test Band = NSA 5A-N77A_ TM1

Test Channel = Mid 3450-3550

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 8000.175 | 42.08 | -42.13 | 36.80 | -58.51 | -13.00 | 45.51 | 244 | 240 | Horizontal |
| 2 | 10312.825 | 44.77 | -38.94 | 38.36 | -51.07 | -13.00 | 38.07 | 172 | 105 | Horizontal |
| 3 | 11186.25 | 33.84 | -36.76 | 38.72 | -59.46 | -13.00 | 46.46 | 100 | 148 | Horizontal |
| 4 | 12396.05 | 33.36 | -36.98 | 38.92 | -59.96 | -13.00 | 46.96 | 162 | 194 | Horizontal |
| 5 | 14334.375 | 32.76 | -35.59 | 41.03 | -57.06 | -13.00 | 44.06 | 133 | 300 | Horizontal |
| 6 | 15787.975 | 31.40 | -33.08 | 39.65 | -57.30 | -13.00 | 44.30 | 258 | 359 | Horizontal |

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 8538.375 | 38.88 | -41.45 | 36.53 | -61.30 | -13.00 | 48.30 | 214 | 148 | Vertical |
| 2 | 10312.825 | 44.37 | -38.94 | 38.36 | -51.47 | -13.00 | 38.47 | 156 | 240 | Vertical |
| 3 | 11228.225 | 34.00 | -36.78 | 38.72 | -59.31 | -13.00 | 46.31 | 153 | 89 | Vertical |
| 4 | 12325.325 | 33.31 | -36.73 | 38.90 | -59.78 | -13.00 | 46.78 | 258 | 103 | Vertical |
| 5 | 13708.2 | 33.04 | -36.01 | 40.37 | -57.86 | -13.00 | 44.86 | 196 | 0 | Vertical |
| 6 | 14844.4 | 32.75 | -35.06 | 41.24 | -56.33 | -13.00 | 43.33 | 185 | 43 | Vertical |



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Test Band = NSA 7A-N77A_ TM1
Test Channel = Mid 3450-3550

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 8000.175 | 42.80 | -42.13 | 36.80 | -57.79 | -13.00 | 44.79 | 211 | 269 | Horizontal |
| 2 | 8882.225 | 38.28 | -40.95 | 36.36 | -61.57 | -13.00 | 48.57 | 142 | 13 | Horizontal |
| 3 | 11017.775 | 33.76 | -37.62 | 38.70 | -60.42 | -13.00 | 47.42 | 156 | 29 | Horizontal |
| 4 | 12073.475 | 33.07 | -37.19 | 38.82 | -60.56 | -13.00 | 47.56 | 136 | 300 | Horizontal |
| 5 | 13164.825 | 32.13 | -36.58 | 39.40 | -60.32 | -13.00 | 47.32 | 259 | 13 | Horizontal |
| 6 | 14501.125 | 31.44 | -34.24 | 41.10 | -56.96 | -13.00 | 43.96 | 185 | 134 | Horizontal |

| Final Data List | | | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1 | 8619.45 | 38.45 | -40.98 | 36.49 | -61.30 | -13.00 | 48.30 | 231 | 151 | Vertical |
| 2 | 9406.05 | 36.96 | -39.92 | 37.07 | -61.15 | -13.00 | 48.15 | 142 | 136 | Vertical |
| 3 | 12194.8 | 32.79 | -37.11 | 38.86 | -60.73 | -13.00 | 47.73 | 169 | 0 | Vertical |
| 4 | 13443.125 | 32.36 | -36.32 | 39.90 | -59.32 | -13.00 | 46.32 | 185 | 120 | Vertical |
| 5 | 14444.2 | 31.93 | -34.70 | 41.08 | -56.96 | -13.00 | 43.96 | 142 | 357 | Vertical |
| 6 | 15858.125 | 31.70 | -33.68 | 39.50 | -57.74 | -13.00 | 44.74 | 199 | 300 | 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

---End of Attachment---

