



Appendix B.50

NR Band n48



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT2

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Result (dBm/10MHz) | EIRP (dBm/10MHz) | Limit (dBm/10MHz) | Verdict |
|------|-----|-----------|-------------|---------|----------------|-----------------------|---------------------|----------------------|---------|
| N48 | 30 | 10 | DFT-QPSK | L | Inner_1RB_Left | 21.04 | 22.04 | 23.00 | PASS |
| N48 | 30 | 10 | DFT-16QAM | L | Inner_1RB_Left | 20.12 | 21.12 | 23.00 | PASS |
| N48 | 30 | 10 | DFT-QPSK | M | Inner_1RB_Left | 21.28 | 22.28 | 23.00 | PASS |
| N48 | 30 | 10 | DFT-16QAM | M | Inner_1RB_Left | 20.37 | 21.37 | 23.00 | PASS |
| N48 | 30 | 10 | DFT-QPSK | H | Inner_1RB_Left | 21.11 | 22.11 | 23.00 | PASS |
| N48 | 30 | 10 | DFT-16QAM | H | Inner_1RB_Left | 20.2 | 21.2 | 23.00 | PASS |
| N48 | 30 | 20 | DFT-QPSK | L | Inner_1RB_Left | 21.35 | 22.35 | 23.00 | PASS |
| N48 | 30 | 20 | DFT-16QAM | L | Inner_1RB_Left | 20.38 | 21.38 | 23.00 | PASS |
| N48 | 30 | 20 | DFT-QPSK | M | Inner_1RB_Left | 21.4 | 22.4 | 23.00 | PASS |
| N48 | 30 | 20 | DFT-16QAM | M | Inner_1RB_Left | 20.45 | 21.45 | 23.00 | PASS |
| N48 | 30 | 20 | DFT-QPSK | H | Inner_1RB_Left | 21.28 | 22.28 | 23.00 | PASS |
| N48 | 30 | 20 | DFT-16QAM | H | Inner_1RB_Left | 20.33 | 21.33 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-QPSK | L | Inner_1RB_Left | 21.28 | 22.28 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-16QAM | L | Inner_1RB_Left | 20.37 | 21.37 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-QPSK | M | Inner_1RB_Left | 21.61 | 22.61 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-16QAM | M | Inner_1RB_Left | 20.63 | 21.63 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-QPSK | H | Inner_1RB_Left | 21.23 | 22.23 | 23.00 | PASS |
| N48 | 30 | 30 | DFT-16QAM | H | Inner_1RB_Left | 20.33 | 21.33 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | L | Inner_1RB_Left | 21.31 | 22.31 | 23.00 | PASS |



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| | | | | | | | | | |
|-----|----|----|-------------|---|-----------------|-------|-------|-------|------|
| N48 | 30 | 40 | DFT-PI2BPSK | L | Inner_1RB_Right | 21.49 | 22.49 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | L | Outer_Full | 20.88 | 21.88 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-QPSK | L | Inner_1RB_Left | 21.28 | 22.28 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-QPSK | L | Inner_1RB_Right | 21.39 | 22.39 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-QPSK | L | Outer_Full | 20.27 | 21.27 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-16QAM | L | Inner_1RB_Left | 20.2 | 21.2 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-16QAM | L | Inner_1RB_Right | 20.48 | 21.48 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-16QAM | L | Outer_Full | 19.74 | 20.74 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-64QAM | L | Inner_1RB_Left | 19.13 | 20.13 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-64QAM | L | Inner_1RB_Right | 19.21 | 20.21 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-64QAM | L | Outer_Full | 18.56 | 19.56 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-256QAM | L | Inner_1RB_Left | 16.7 | 17.7 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-256QAM | L | Inner_1RB_Right | 16.85 | 17.85 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-256QAM | L | Outer_Full | 16.73 | 17.73 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | M | Inner_1RB_Left | 21.67 | 22.67 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | M | Inner_1RB_Right | 21.36 | 22.36 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-PI2BPSK | M | Outer_Full | 20.86 | 21.86 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-QPSK | M | Inner_1RB_Left | 21.62 | 22.62 | 23.00 | PASS |



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Shenzhen Branch Wireless Laboratory

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| | | | | | | | | | |
|-----|----|----|-----------------|---|---------------------|-------|-------|-------|------|
| N48 | 30 | 40 | DFT-QPSK | M | Inner_1RB_Rig ht | 21.4 | 22.4 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-QPSK | M | Outer_Full | 20.37 | 21.37 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-16QAM | M | Inner_1RB_Left | 20.66 | 21.66 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-16QAM | M | Inner_1RB_Rig ht | 20.43 | 21.43 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-16QAM | M | Outer_Full | 19.31 | 20.31 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-64QAM | M | Inner_1RB_Left | 19.1 | 20.1 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-64QAM | M | Inner_1RB_Rig ht | 18.82 | 19.82 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-64QAM | M | Outer_Full | 18.87 | 19.87 | 23.00 | PASS |
| N48 | 30 | 40 | DFT- 256QAM | M | Inner_1RB_Left | 17 | 18 | 23.00 | PASS |
| N48 | 30 | 40 | DFT- 256QAM | M | Inner_1RB_Rig ht | 16.68 | 17.68 | 23.00 | PASS |
| N48 | 30 | 40 | DFT- 256QAM | M | Outer_Full | 16.85 | 17.85 | 23.00 | PASS |
| N48 | 30 | 40 | DFT- PI2BPSK | H | Inner_1RB_Left | 21.38 | 22.38 | 23.00 | PASS |
| N48 | 30 | 40 | DFT- PI2BPSK | H | Inner_1RB_Rig ht | 21.4 | 22.4 | 23.00 | PASS |
| N48 | 30 | 40 | DFT- PI2BPSK | H | Outer_Full | 20.79 | 21.79 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-QPSK | H | Inner_1RB_Left | 21.4 | 22.4 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-QPSK | H | Inner_1RB_Rig ht | 21.42 | 22.42 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-QPSK | H | Outer_Full | 20.32 | 21.32 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-16QAM | H | Inner_1RB_Left | 20.39 | 21.39 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-16QAM | H | Inner_1RB_Rig | 20.42 | 21.42 | 23.00 | PASS |



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| | | | | | | | | | |
|-----|----|----|----------------|---|---------------------|-------|-------|-------|------|
| | | | | | ht | | | | |
| N48 | 30 | 40 | DFT-16QAM | H | Outer_Full | 19.31 | 20.31 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-64QAM | H | Inner_1RB_Left | 18.89 | 19.89 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-64QAM | H | Inner_1RB_Rig ht | 18.99 | 19.99 | 23.00 | PASS |
| N48 | 30 | 40 | DFT-64QAM | H | Outer_Full | 18.85 | 19.85 | 23.00 | PASS |
| N48 | 30 | 40 | DFT- 256QAM | H | Inner_1RB_Left | 16.69 | 17.69 | 23.00 | PASS |
| N48 | 30 | 40 | DFT- 256QAM | H | Inner_1RB_Rig ht | 16.74 | 17.74 | 23.00 | PASS |
| N48 | 30 | 40 | DFT- 256QAM | H | Outer_Full | 16.8 | 17.8 | 23.00 | PASS |



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Test Result for MIMO

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Power Ant2 | Power Ant0 | Total Power (dBm/10MHz) | EIRP (dBm/10MHz) | Verdict |
|------|-----|-----------|------------|---------|----------------|---------------|---------------|-------------------------------|---------------------|---------|
| N48 | 30 | 10 | CP-QPSK | L | Inner_1RB_Left | 16.7 | 15.34 | 19.08 | 20.08 | PASS |
| N48 | 30 | 10 | CP-16QAM | L | Inner_1RB_Left | 16.45 | 14.84 | 18.73 | 19.73 | PASS |
| N48 | 30 | 10 | CP-QPSK | M | Inner_1RB_Left | 16.83 | 15.89 | 19.4 | 20.4 | PASS |
| N48 | 30 | 10 | CP-16QAM | M | Inner_1RB_Left | 16.45 | 15.23 | 18.89 | 19.89 | PASS |
| N48 | 30 | 10 | CP-QPSK | H | Inner_1RB_Left | 16.67 | 15.18 | 19 | 20 | PASS |
| N48 | 30 | 10 | CP-16QAM | H | Inner_1RB_Left | 16.44 | 14.74 | 18.68 | 19.68 | PASS |
| N48 | 30 | 20 | CP-QPSK | L | Inner_1RB_Left | 16.9 | 15.51 | 19.27 | 20.27 | PASS |
| N48 | 30 | 20 | CP-16QAM | L | Inner_1RB_Left | 16.62 | 14.99 | 18.89 | 19.89 | PASS |
| N48 | 30 | 20 | CP-QPSK | M | Inner_1RB_Left | 17.01 | 15.67 | 19.4 | 20.4 | PASS |
| N48 | 30 | 20 | CP-16QAM | M | Inner_1RB_Left | 16.69 | 15.17 | 19.01 | 20.01 | PASS |
| N48 | 30 | 20 | CP-QPSK | H | Inner_1RB_Left | 16.88 | 15.81 | 19.39 | 20.39 | PASS |
| N48 | 30 | 20 | CP-16QAM | H | Inner_1RB_Left | 16.31 | 15.29 | 18.84 | 19.84 | PASS |
| N48 | 30 | 30 | CP-QPSK | L | Inner_1RB_Left | 16.87 | 15.58 | 19.28 | 20.28 | PASS |
| N48 | 30 | 30 | CP-16QAM | L | Inner_1RB_Left | 16.63 | 15.11 | 18.95 | 19.95 | PASS |
| N48 | 30 | 30 | CP-QPSK | M | Inner_1RB_Left | 17.13 | 15.55 | 19.42 | 20.42 | PASS |
| N48 | 30 | 30 | CP-16QAM | M | Inner_1RB_Left | 16.82 | 15.05 | 19.03 | 20.03 | PASS |
| N48 | 30 | 30 | CP-QPSK | H | Inner_1RB_Left | 16.87 | 15.95 | 19.44 | 20.44 | PASS |
| N48 | 30 | 30 | CP-16QAM | H | Inner_1RB_Left | 16.58 | 15.46 | 19.07 | 20.07 | PASS |
| N48 | 30 | 40 | CP-QPSK | L | Inner_1RB_Left | 16.89 | 15.5 | 19.26 | 20.26 | PASS |



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|-----|----|----|---------------|---|---------------------|-------|-------|-------|-------|------|
| N48 | 30 | 40 | CP-QPSK | L | Inner_1RB_Rig ht | 17.18 | 15.98 | 19.63 | 20.63 | PASS |
| N48 | 30 | 40 | CP-QPSK | L | Outer_Full | 13.99 | 12.73 | 16.42 | 17.42 | PASS |
| N48 | 30 | 40 | CP-16QAM | L | Inner_1RB_Left | 16.67 | 14.91 | 18.89 | 19.89 | PASS |
| N48 | 30 | 40 | CP-16QAM | L | Inner_1RB_Rig ht | 16.72 | 15.42 | 19.13 | 20.13 | PASS |
| N48 | 30 | 40 | CP-16QAM | L | Outer_Full | 14.03 | 12.75 | 16.45 | 17.45 | PASS |
| N48 | 30 | 40 | CP-64QAM | L | Inner_1RB_Left | 15.14 | 13.36 | 17.35 | 18.35 | PASS |
| N48 | 30 | 40 | CP-64QAM | L | Inner_1RB_Rig ht | 15.17 | 13.92 | 17.6 | 18.6 | PASS |
| N48 | 30 | 40 | CP-64QAM | L | Outer_Full | 13.01 | 11.78 | 15.45 | 16.45 | PASS |
| N48 | 30 | 40 | CP- 256QAM | L | Inner_1RB_Left | 13.21 | 11.54 | 15.47 | 16.47 | PASS |
| N48 | 30 | 40 | CP- 256QAM | L | Inner_1RB_Rig ht | 13.37 | 12.04 | 15.77 | 16.77 | PASS |
| N48 | 30 | 40 | CP- 256QAM | L | Outer_Full | 13.04 | 11.82 | 15.48 | 16.48 | PASS |
| N48 | 30 | 40 | CP-QPSK | M | Inner_1RB_Left | 17.23 | 15.54 | 19.48 | 20.48 | PASS |
| N48 | 30 | 40 | CP-QPSK | M | Inner_1RB_Rig ht | 16.99 | 15.59 | 19.36 | 20.36 | PASS |
| N48 | 30 | 40 | CP-QPSK | M | Outer_Full | 14 | 12.53 | 16.34 | 17.34 | PASS |
| N48 | 30 | 40 | CP-16QAM | M | Inner_1RB_Left | 16.81 | 14.97 | 19 | 20 | PASS |
| N48 | 30 | 40 | CP-16QAM | M | Inner_1RB_Rig ht | 16.39 | 14.97 | 18.75 | 19.75 | PASS |
| N48 | 30 | 40 | CP-16QAM | M | Outer_Full | 13.98 | 12.49 | 16.31 | 17.31 | PASS |
| N48 | 30 | 40 | CP-64QAM | M | Inner_1RB_Left | 15.24 | 13.45 | 17.45 | 18.45 | PASS |
| N48 | 30 | 40 | CP-64QAM | M | Inner_1RB_Rig | 14.99 | 13.5 | 17.32 | 18.32 | PASS |



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| | | | | | | | | | | |
|-----|----|----|-----------|---|---------------------|-------|-------|-------|-------|------|
| | | | | | ht | | | | | |
| N48 | 30 | 40 | CP-64QAM | M | Outer_Full | 12.99 | 11.63 | 15.37 | 16.37 | PASS |
| N48 | 30 | 40 | CP-256QAM | M | Inner_1RB_Left | 13.36 | 11.63 | 15.59 | 16.59 | PASS |
| N48 | 30 | 40 | CP-256QAM | M | Inner_1RB_Rig ht | 13.06 | 11.52 | 15.37 | 16.37 | PASS |
| N48 | 30 | 40 | CP-256QAM | M | Outer_Full | 13.02 | 11.68 | 15.41 | 16.41 | PASS |
| N48 | 30 | 40 | CP-QPSK | H | Inner_1RB_Left | 16.87 | 15.75 | 19.36 | 20.36 | PASS |
| N48 | 30 | 40 | CP-QPSK | H | Inner_1RB_Rig ht | 17.11 | 15.82 | 19.52 | 20.52 | PASS |
| N48 | 30 | 40 | CP-QPSK | H | Outer_Full | 13.93 | 12.86 | 16.44 | 17.44 | PASS |
| N48 | 30 | 40 | CP-16QAM | H | Inner_1RB_Left | 16.67 | 15.16 | 18.99 | 19.99 | PASS |
| N48 | 30 | 40 | CP-16QAM | H | Inner_1RB_Rig ht | 16.6 | 15.14 | 18.94 | 19.94 | PASS |
| N48 | 30 | 40 | CP-16QAM | H | Outer_Full | 13.86 | 12.81 | 16.38 | 17.38 | PASS |
| N48 | 30 | 40 | CP-64QAM | H | Inner_1RB_Left | 15.06 | 13.63 | 17.41 | 18.41 | PASS |
| N48 | 30 | 40 | CP-64QAM | H | Inner_1RB_Rig ht | 15.2 | 13.75 | 17.55 | 18.55 | PASS |
| N48 | 30 | 40 | CP-64QAM | H | Outer_Full | 12.89 | 11.85 | 15.41 | 16.41 | PASS |
| N48 | 30 | 40 | CP-256QAM | H | Inner_1RB_Left | 13.11 | 11.86 | 15.54 | 16.54 | PASS |
| N48 | 30 | 40 | CP-256QAM | H | Inner_1RB_Rig ht | 13.23 | 11.83 | 15.6 | 16.6 | PASS |
| N48 | 30 | 40 | CP-256QAM | H | Outer_Full | 12.96 | 11.89 | 15.47 | 16.47 | PASS |



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Peak-to-Average Ratio for SA

Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Result | Limit | Verdict |
|------|-----|-----------|------------|---------|------------|--------|-------|---------|
| N48 | 30 | 30 | DFT-256QAM | L | Outer_Full | 9.52 | ≤13 | PASS |
| N48 | 30 | 30 | CP-256QAM | L | Outer_Full | 9.64 | ≤13 | PASS |
| N48 | 30 | 30 | DFT-256QAM | M | Outer_Full | 9.80 | ≤13 | PASS |
| N48 | 30 | 30 | CP-256QAM | M | Outer_Full | 9.94 | ≤13 | PASS |
| N48 | 30 | 30 | DFT-256QAM | H | Outer_Full | 9.26 | ≤13 | PASS |
| N48 | 30 | 30 | CP-256QAM | H | Outer_Full | 9.90 | ≤13 | PASS |

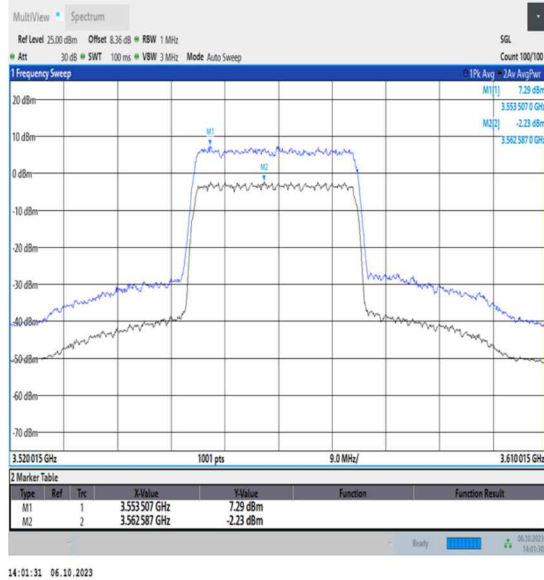


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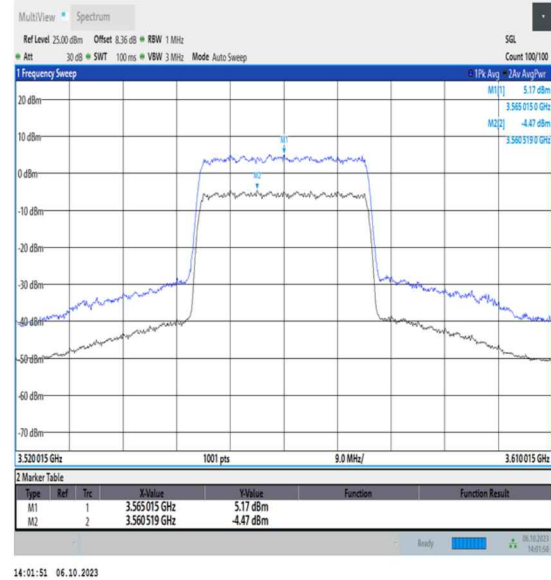
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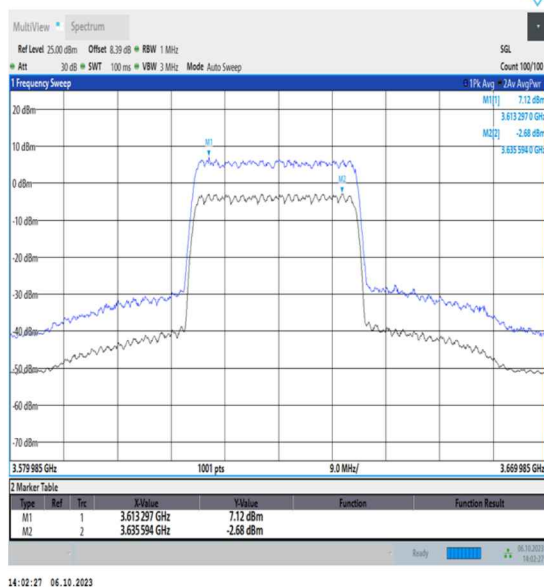
Test Graphs



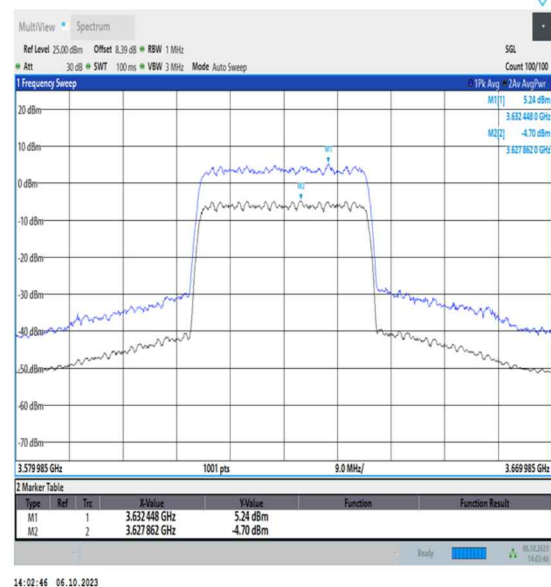
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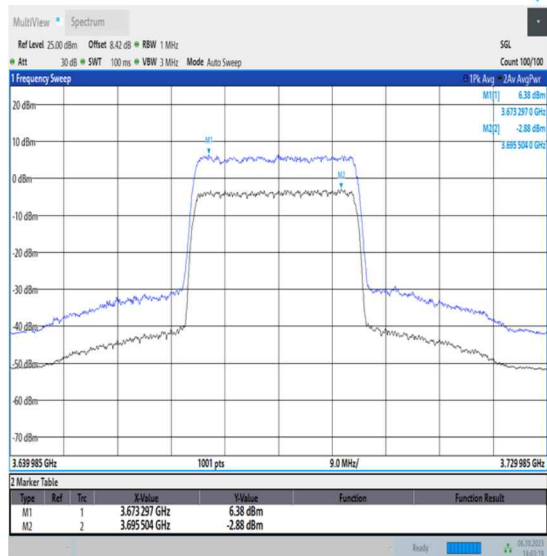


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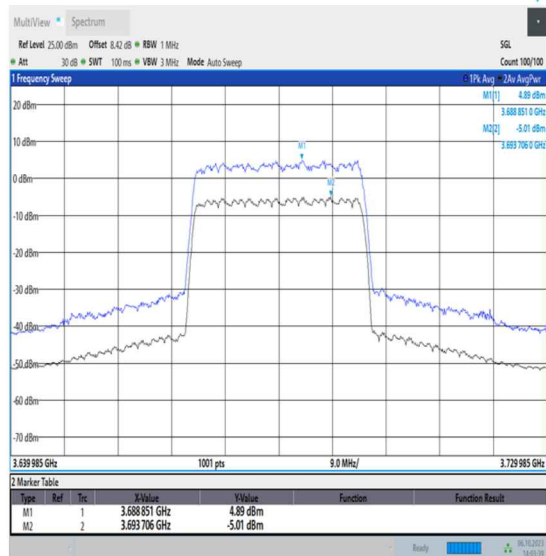
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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config | Result (99%) | Result (26dB) | Verdict |
|------|-----|-----------|-------------|---------|------------|-----------------|------------------|---------|
| N48 | 30 | 30 | DFT-QPSK | M | Outer_Full | 26.716 | 28.200 | PASS |
| N48 | 30 | 30 | DFT-PI2BPSK | M | Outer_Full | 26.754 | 28.200 | PASS |
| N48 | 30 | 30 | DFT-16QAM | M | Outer_Full | 26.775 | 27.960 | PASS |
| N48 | 30 | 30 | DFT-64QAM | M | Outer_Full | 26.765 | 27.900 | PASS |
| N48 | 30 | 30 | DFT-256QAM | M | Outer_Full | 26.926 | 28.020 | PASS |
| N48 | 30 | 30 | CP-QPSK | M | Outer_Full | 27.864 | 29.160 | PASS |
| N48 | 30 | 30 | CP-16QAM | M | Outer_Full | 27.773 | 29.400 | PASS |
| N48 | 30 | 30 | CP-64QAM | M | Outer_Full | 27.75 | 29.460 | PASS |
| N48 | 30 | 30 | CP-256QAM | M | Outer_Full | 27.883 | 29.340 | PASS |



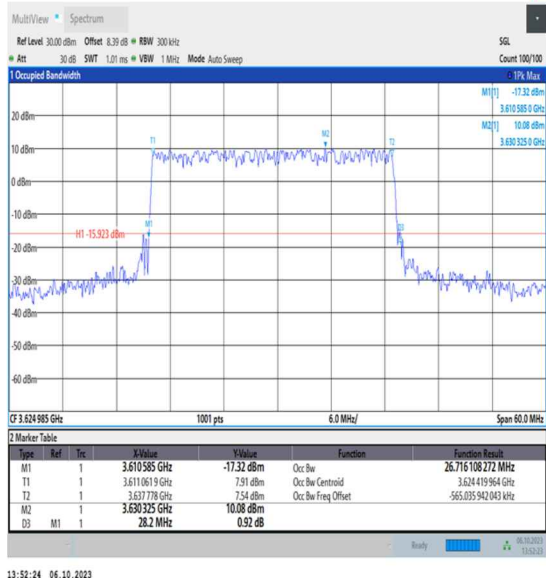
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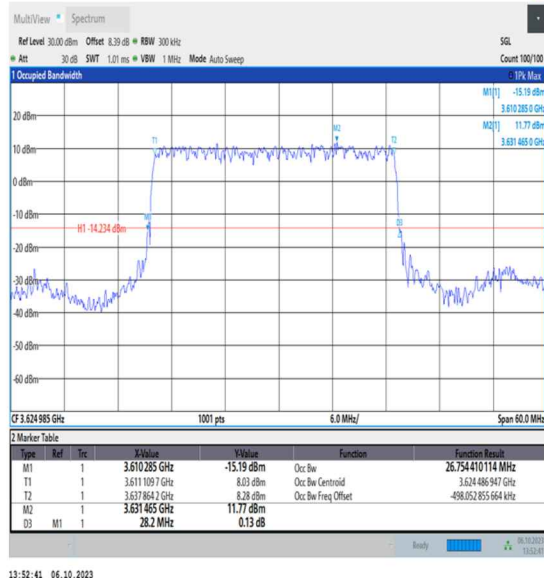
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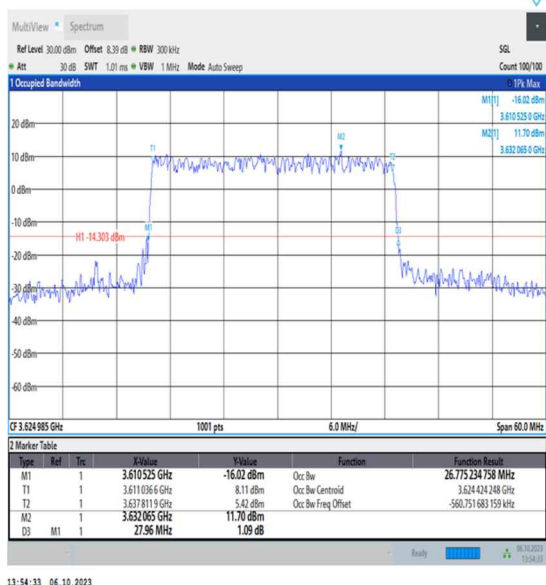
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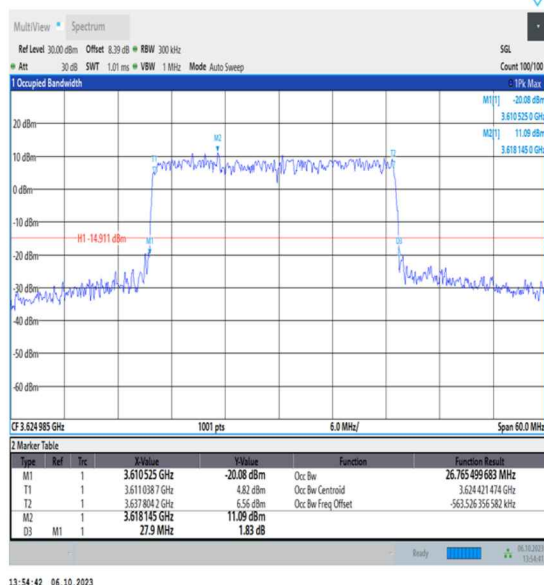
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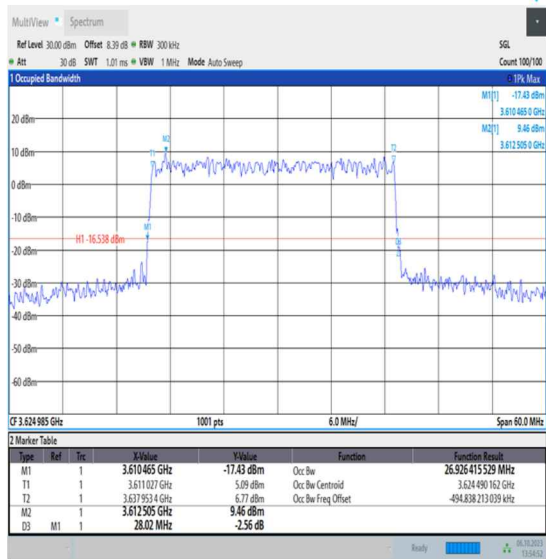
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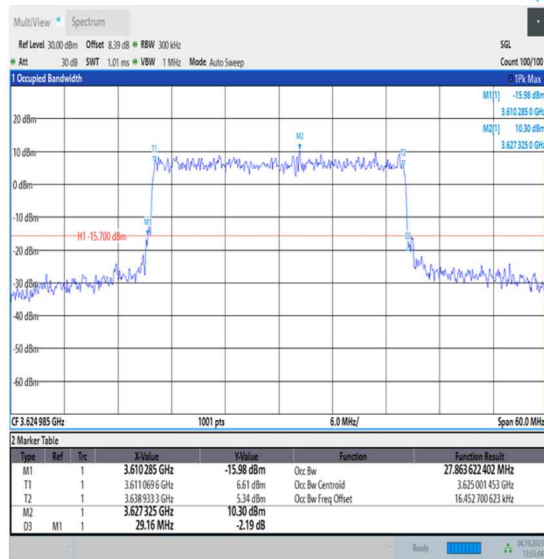


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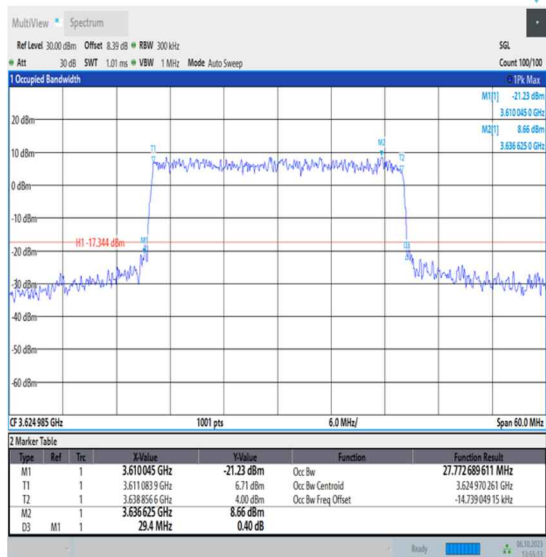
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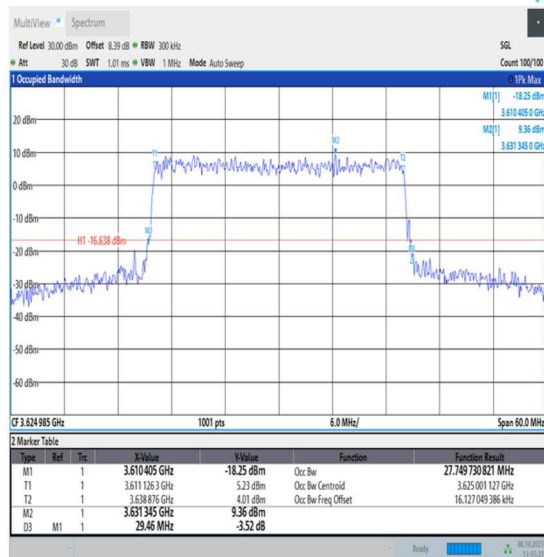
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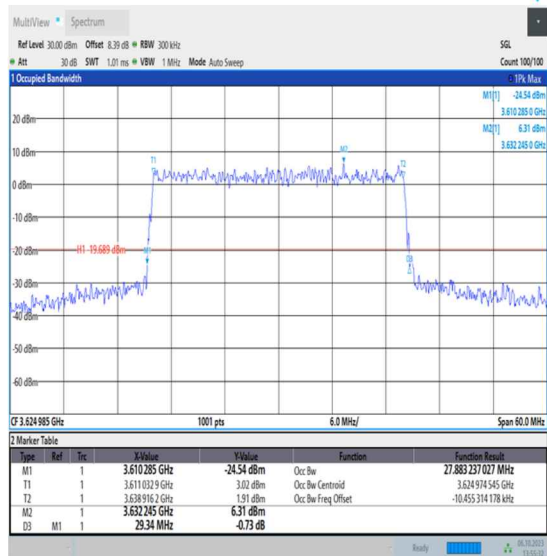
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