11N20MIMO_Ant2_5180

11N20MIMO_Ant1_5200

11N20MIMO_Ant2_5200


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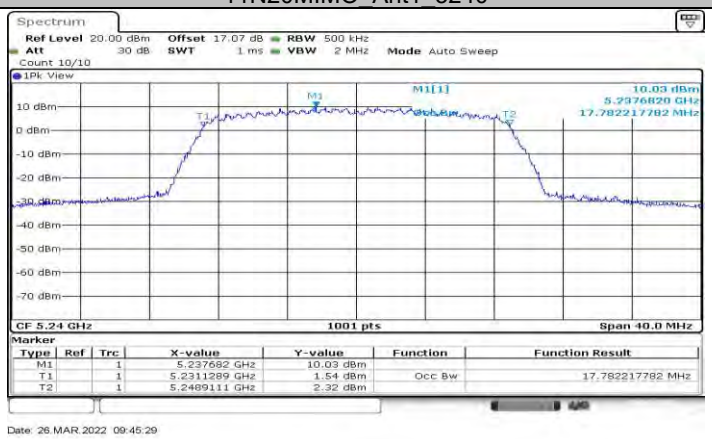
11N20MIMO_Ant1_5240




11N20MIMO_Ant2_5240

11N20MIMO_Ant1_5260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11N20MIMO_Ant2_5260

11N20MIMO_Ant1_5280

11N20MIMO_Ant2_5280


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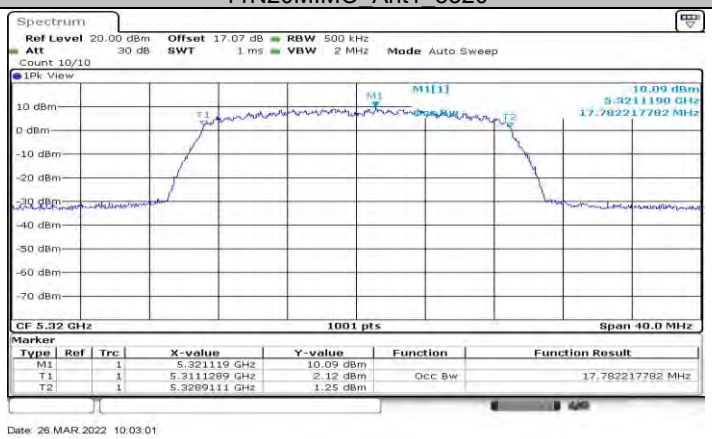
11N20MIMO_Ant1_5320




11N20MIMO_Ant2_5320

11N20MIMO_Ant1_5500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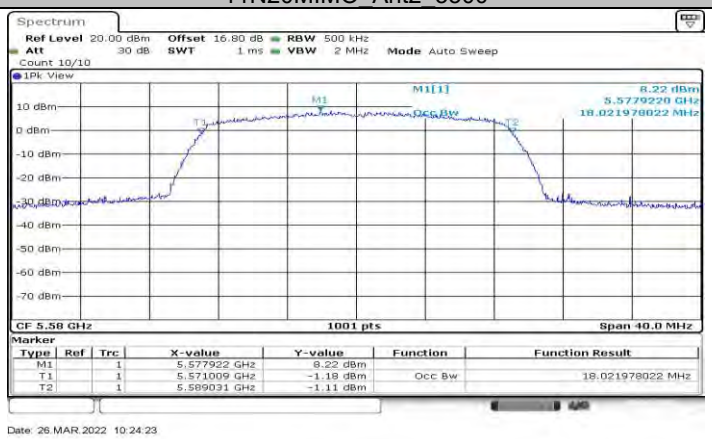
11N20MIMO_Ant2_5500




11N20MIMO_Ant1_5580

11N20MIMO_Ant2_5580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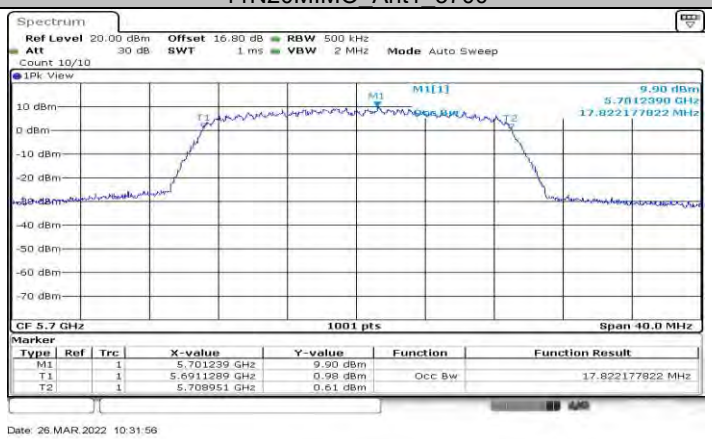
11N20MIMO_Ant1_5700




11N20MIMO_Ant2_5700

11N20MIMO_Ant1_5720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11N20MIMO_Ant2_5720

11N20MIMO_Ant1_5745

11N20MIMO_Ant2_5745


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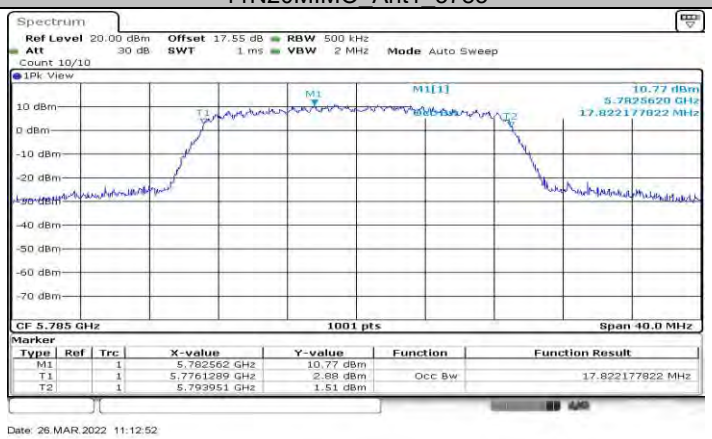
11N20MIMO_Ant1_5785




11N20MIMO_Ant2_5785

11N20MIMO_Ant1_5825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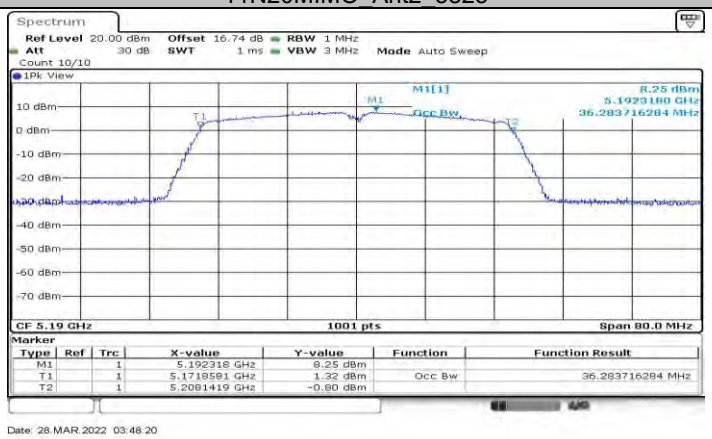
11N20MIMO_Ant2_5825




11N40MIMO_Ant1_5190

11N40MIMO_Ant2_5190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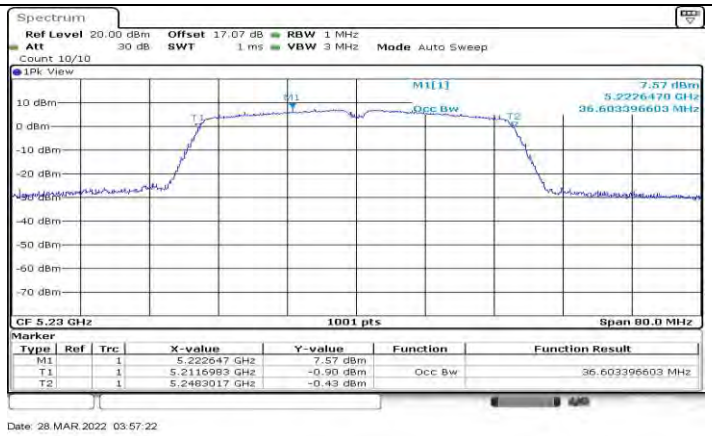
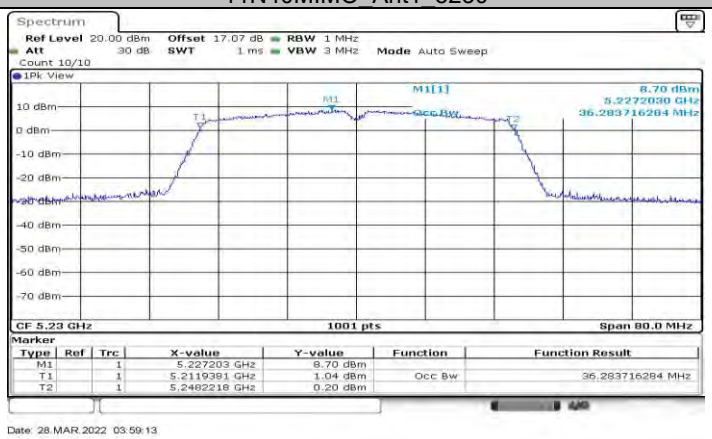



11N40MIMO_Ant1_5230




11N40MIMO_Ant2_5230

11N40MIMO_Ant1_5270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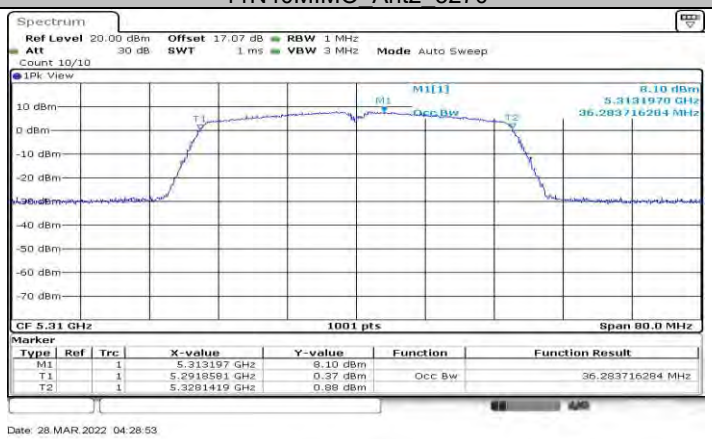
11N40MIMO_Ant2_5270




11N40MIMO_Ant1_5310

11N40MIMO_Ant2_5310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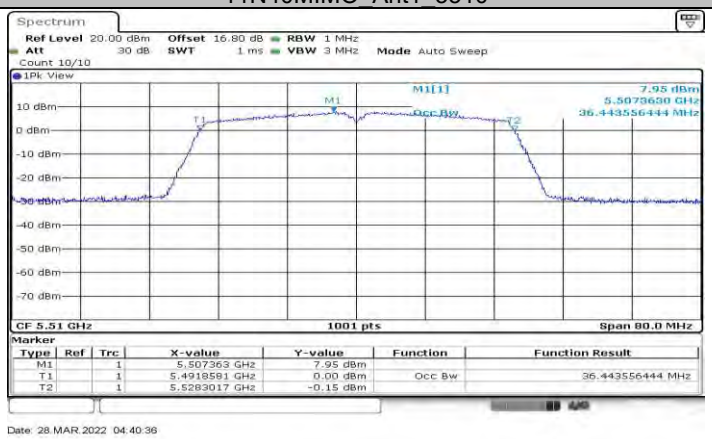
11N40MIMO_Ant1_5510




11N40MIMO_Ant2_5510

11N40MIMO_Ant1_5590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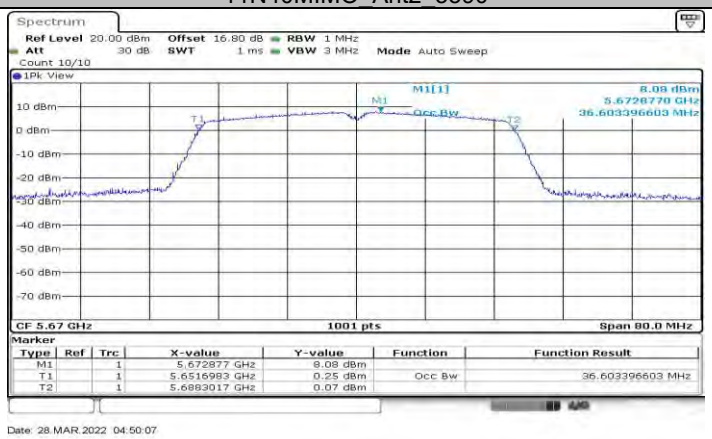
11N40MIMO_Ant2_5590




11N40MIMO_Ant1_5670

11N40MIMO_Ant2_5670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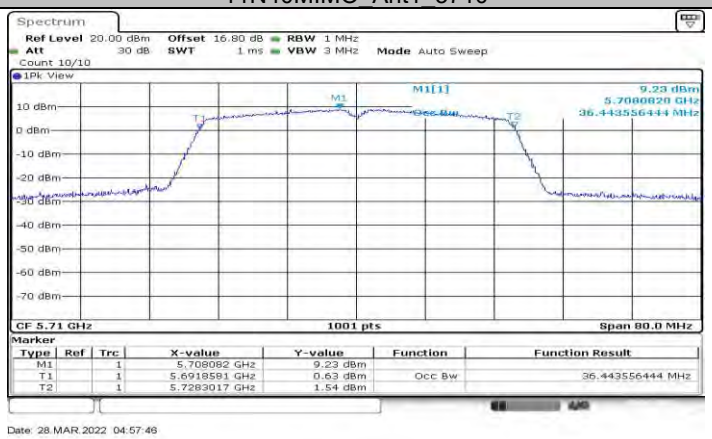
11N40MIMO_Ant1_5710




11N40MIMO_Ant2_5710

11N40MIMO_Ant1_5755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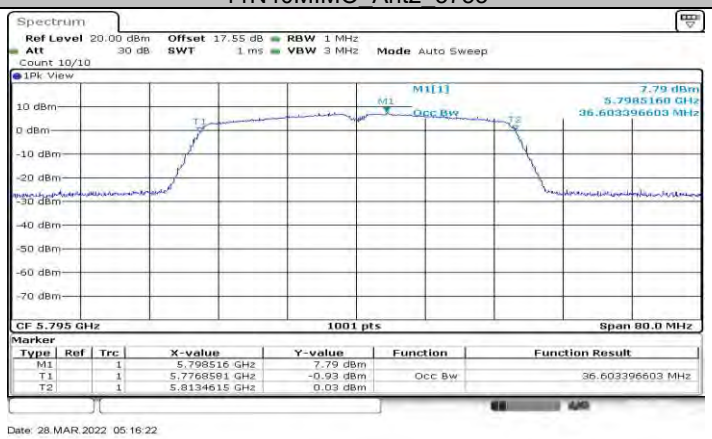
11N40MIMO_Ant2_5755




11N40MIMO_Ant1_5795

11N40MIMO_Ant2_5795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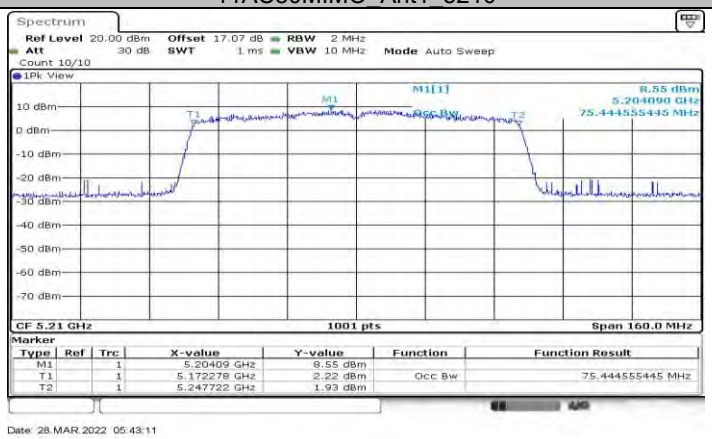
11AC80MIMO_Ant1_5210




11AC80MIMO_Ant2_5210

11AC80MIMO_Ant1_5290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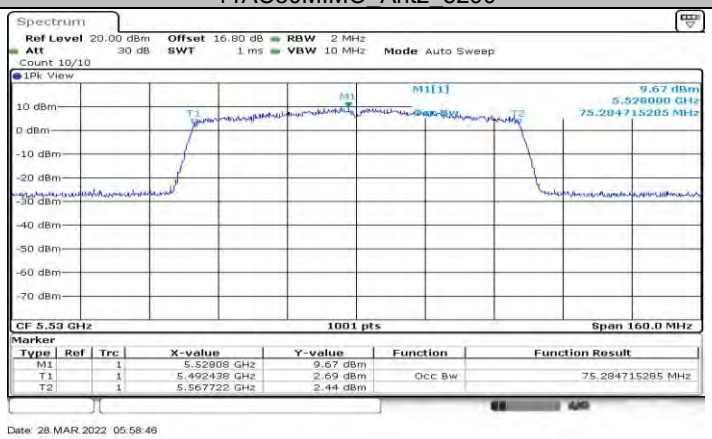
11AC80MIMO_Ant2_5290




11AC80MIMO_Ant1_5530

11AC80MIMO_Ant2_5530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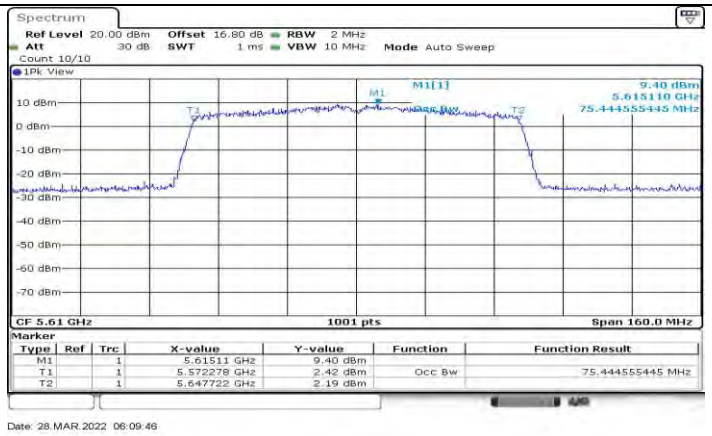
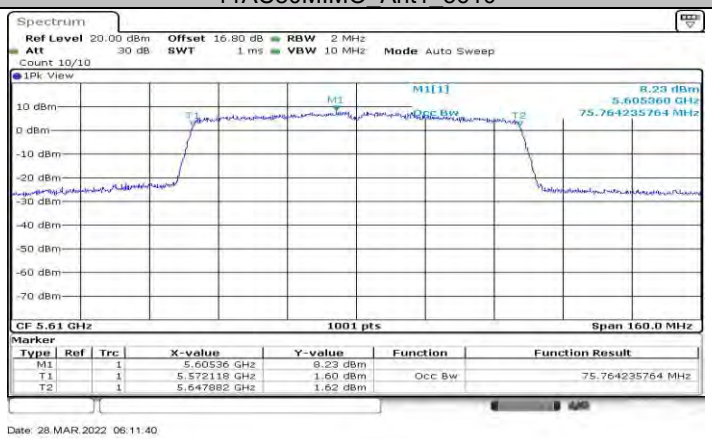



11AC80MIMO_Ant1_5610




11AC80MIMO_Ant2_5610

11AC80MIMO_Ant1_5690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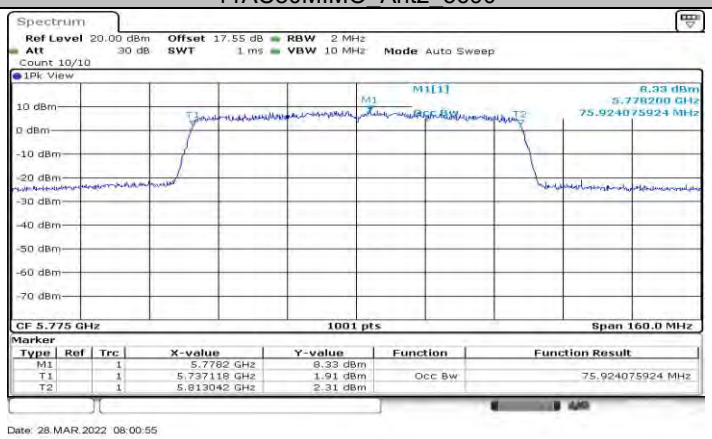
11AC80MIMO_Ant2_5690




11AC80MIMO_Ant1_5775

11AC80MIMO_Ant2_5775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## 12.3. Appendix A3: Min emission bandwidth

### 12.3.1. Test Result

| Test Mode | Antenna | Channel | 6db EBW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11A | Ant1 | 5720_UNII-3 | 2.84 | 5725 | 5727.84 | 0.5 | PASS |
| | Ant2 | 5720_UNII-3 | 2.48 | 5725 | 5727.48 | 0.5 | PASS |
| | Ant1 | 5745 | 15.36 | 5737.16 | 5752.52 | 0.5 | PASS |
| | Ant2 | 5745 | 16.32 | 5736.80 | 5753.12 | 0.5 | PASS |
| | Ant1 | 5785 | 15.08 | 5777.40 | 5792.48 | 0.5 | PASS |
| | Ant2 | 5785 | 15.12 | 5777.40 | 5792.52 | 0.5 | PASS |
| | Ant1 | 5825 | 15.64 | 5817.20 | 5832.84 | 0.5 | PASS |
| | Ant2 | 5825 | 15.84 | 5817.04 | 5832.88 | 0.5 | PASS |
| 11N20MIMO | Ant1 | 5720_UNII-3 | 2.56 | 5725 | 5727.56 | 0.5 | PASS |
| | Ant2 | 5720_UNII-3 | 2.56 | 5725 | 5727.56 | 0.5 | PASS |
| | Ant1 | 5745 | 15.44 | 5737.16 | 5752.60 | 0.5 | PASS |
| | Ant2 | 5745 | 15.12 | 5737.48 | 5752.60 | 0.5 | PASS |
| | Ant1 | 5785 | 15.48 | 5777.44 | 5792.92 | 0.5 | PASS |
| | Ant2 | 5785 | 16.32 | 5776.84 | 5793.16 | 0.5 | PASS |
| | Ant1 | 5825 | 15.12 | 5817.44 | 5832.56 | 0.5 | PASS |
| | Ant2 | 5825 | 16.32 | 5816.84 | 5833.16 | 0.5 | PASS |
| 11N40MIMO | Ant1 | 5710_UNII-3 | 2.6 | 5725 | 5727.60 | 0.5 | PASS |
| | Ant2 | 5710_UNII-3 | 2.6 | 5725 | 5727.60 | 0.5 | PASS |
| | Ant1 | 5755 | 35.04 | 5737.48 | 5772.52 | 0.5 | PASS |
| | Ant2 | 5755 | 35.12 | 5737.48 | 5772.60 | 0.5 | PASS |
| | Ant1 | 5795 | 35.12 | 5777.48 | 5812.60 | 0.5 | PASS |
| | Ant2 | 5795 | 35.12 | 5777.48 | 5812.60 | 0.5 | PASS |
| 11AC80MIMO | Ant1 | 5690_UNII-3 | 2.6 | 5725 | 5727.60 | 0.5 | PASS |
| | Ant2 | 5690_UNII-3 | 2.6 | 5725 | 5727.60 | 0.5 | PASS |
| | Ant1 | 5775 | 75.20 | 5737.40 | 5812.60 | 0.5 | PASS |
| | Ant2 | 5775 | 75.20 | 5737.40 | 5812.60 | 0.5 | PASS |


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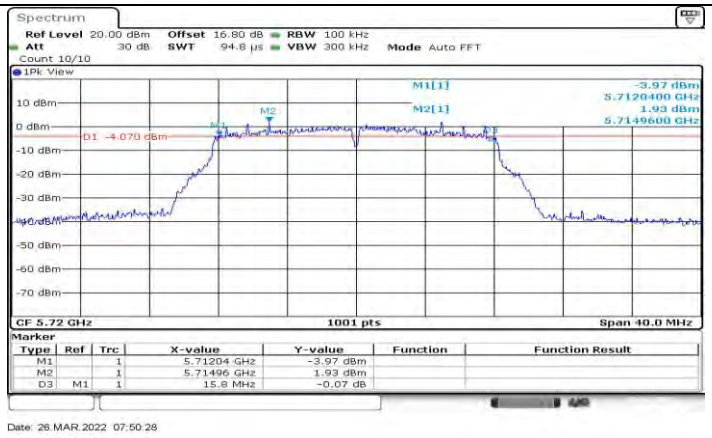
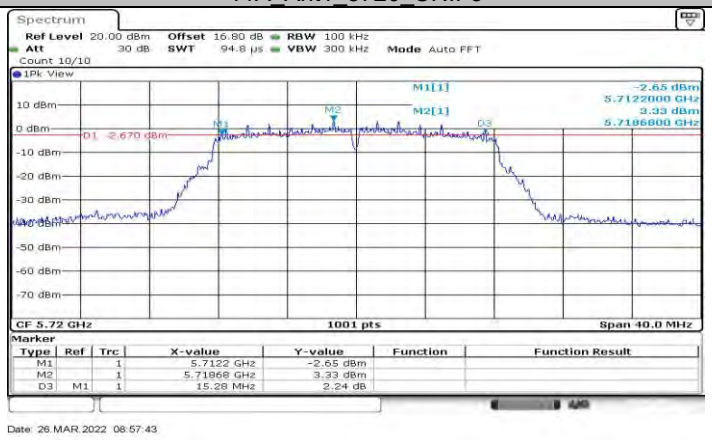
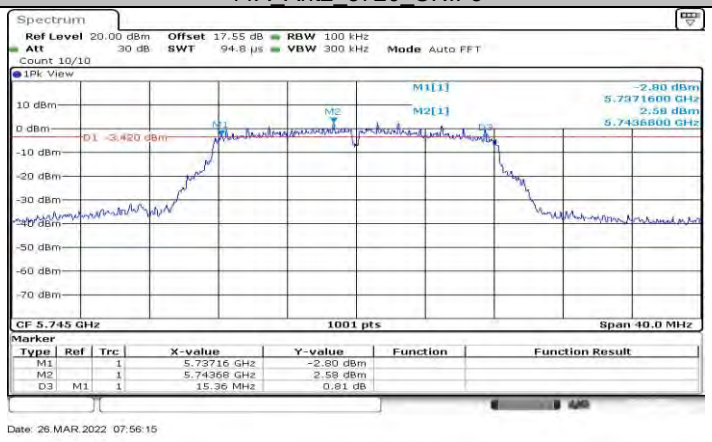
### 12.3.2. Test Graphs




11A_Ant1_5720_UNII-3




11A_Ant2_5720_UNII-3




11A_Ant1_5745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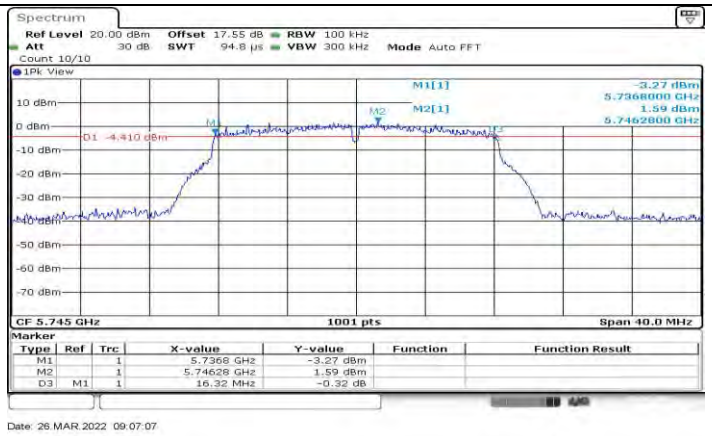
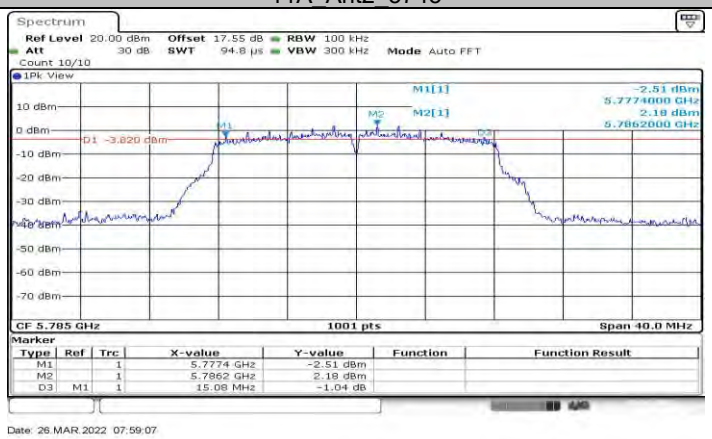
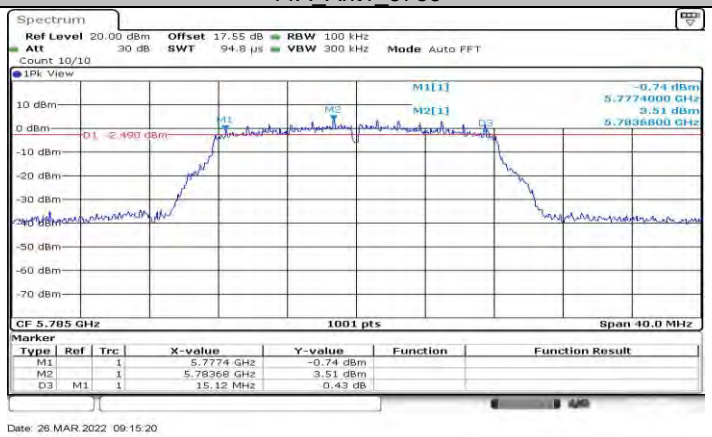



11A_Ant2_5745




11A_Ant1_5785




11A_Ant2_5785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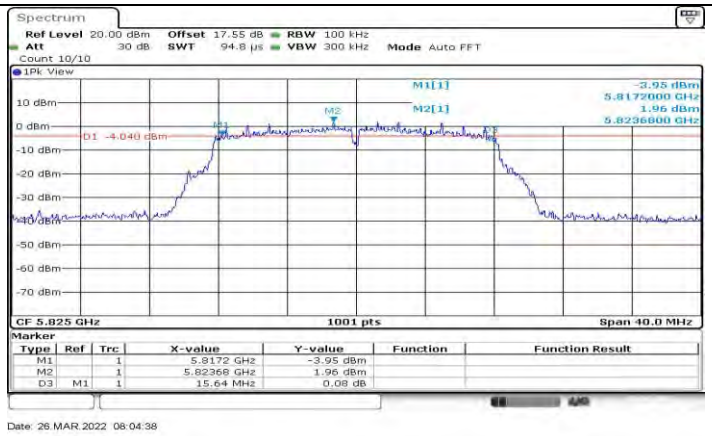
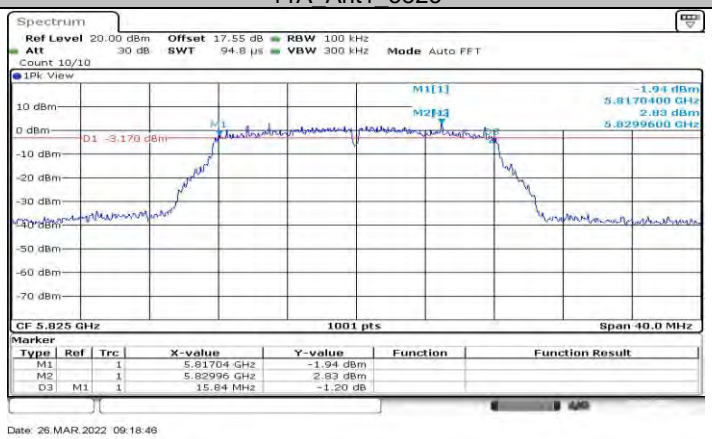
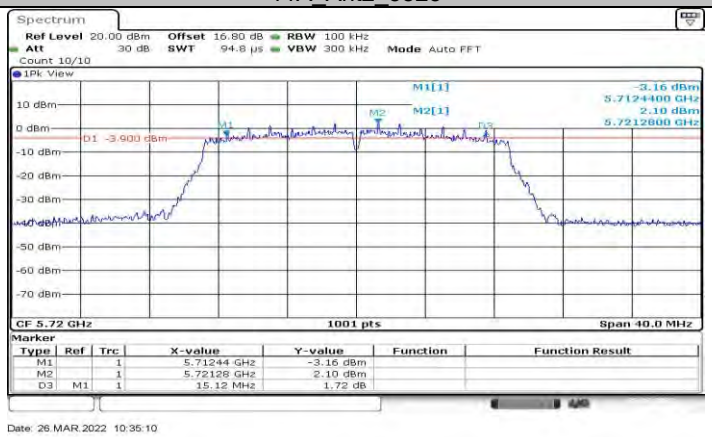



11A_Ant1_5825




11A_Ant2_5825




11N20MIMO_Ant1_5720_UNII-3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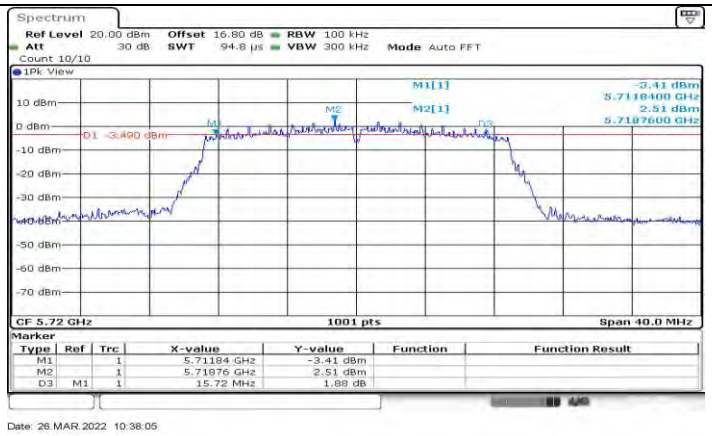
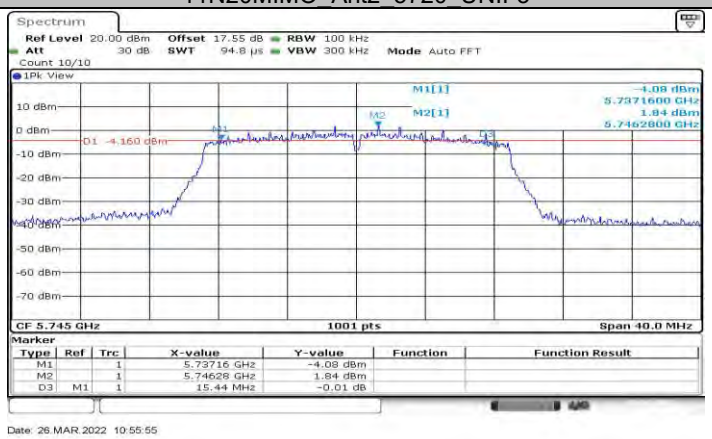



11N20MIMO_Ant2_5720_UNII-3




11N20MIMO_Ant1_5745

11N20MIMO_Ant2_5745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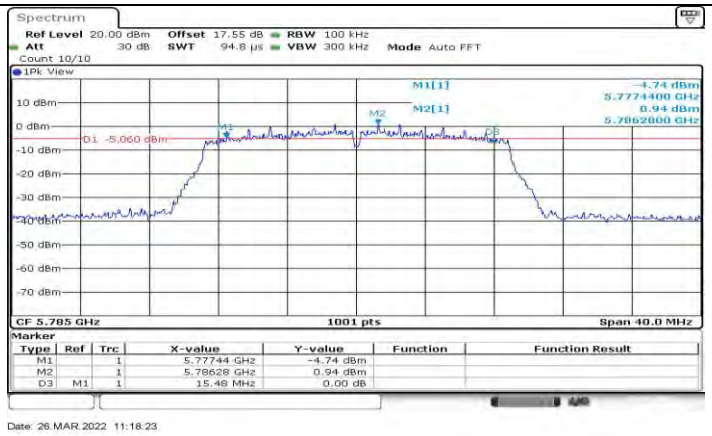
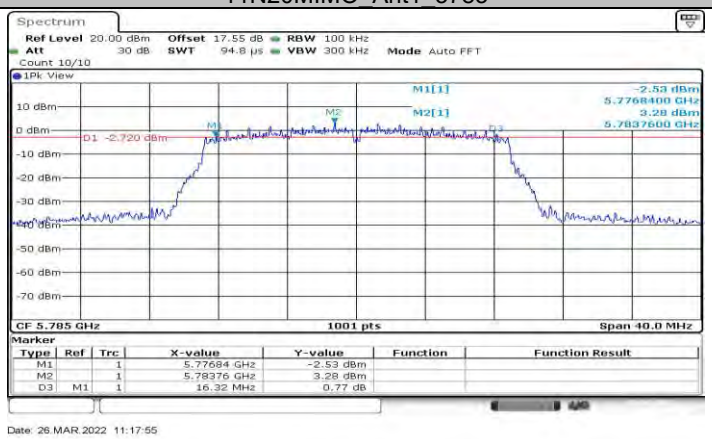
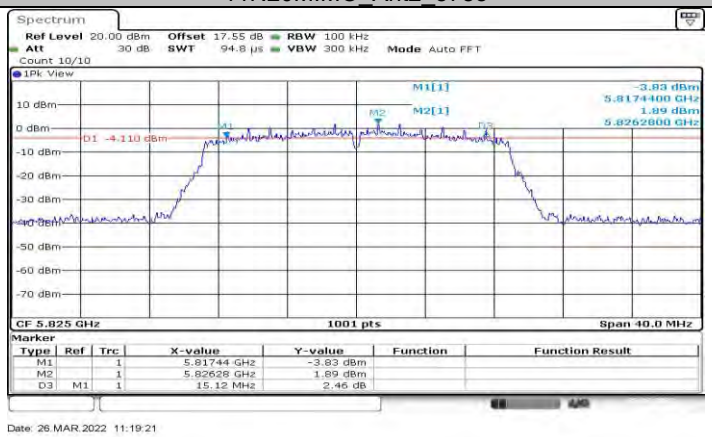



11N20MIMO_Ant1_5785




11N20MIMO_Ant2_5785




11N20MIMO_Ant1_5825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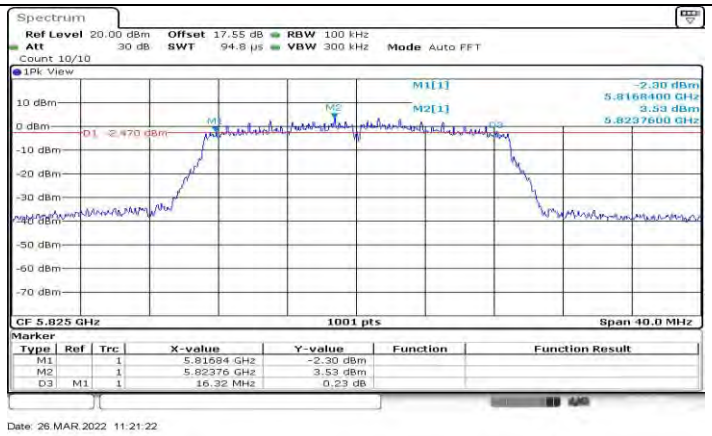
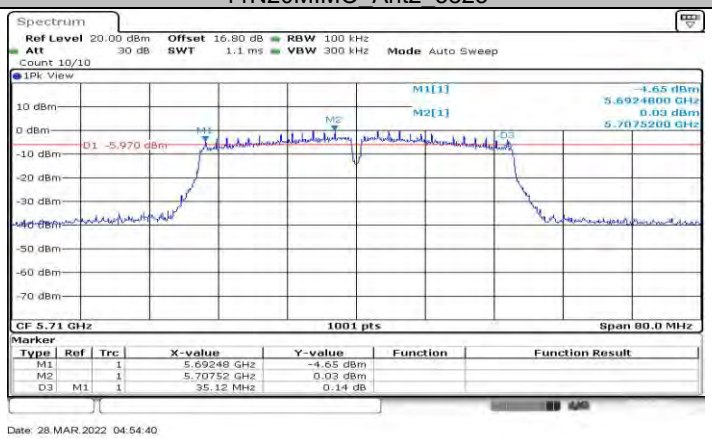



11N20MIMO_Ant2_5825




11N40MIMO_Ant1_5710_UNII-3

11N40MIMO_Ant2_5710_UNII-3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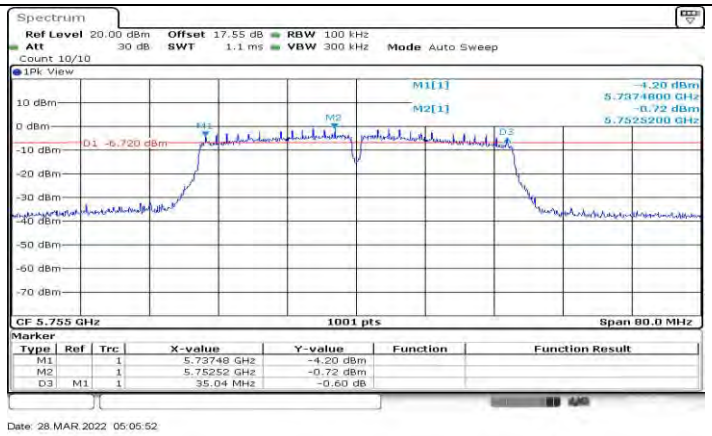
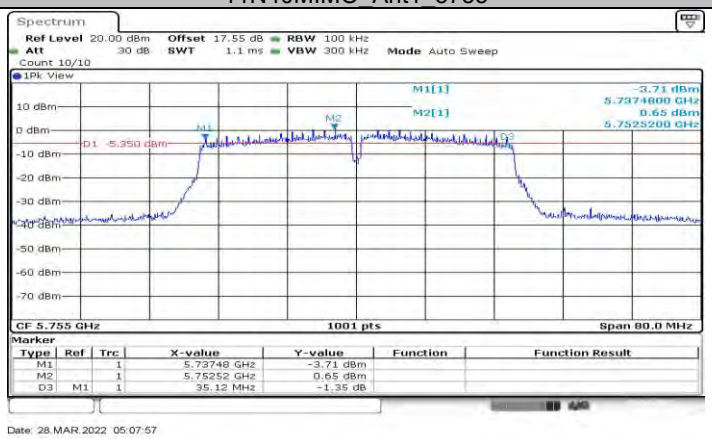



11N40MIMO_Ant1_5755

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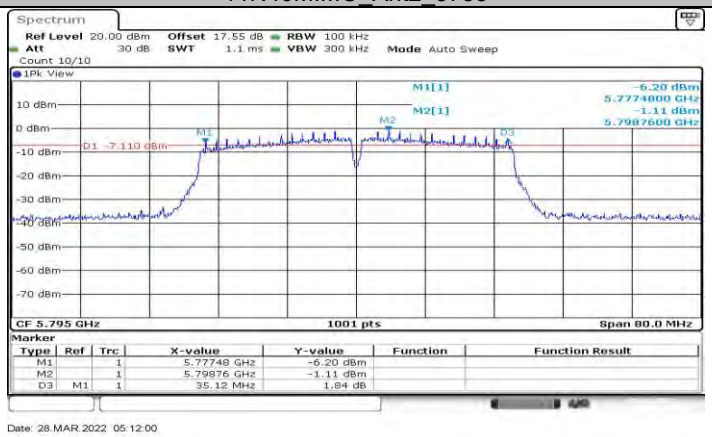


11N40MIMO_Ant1_5795


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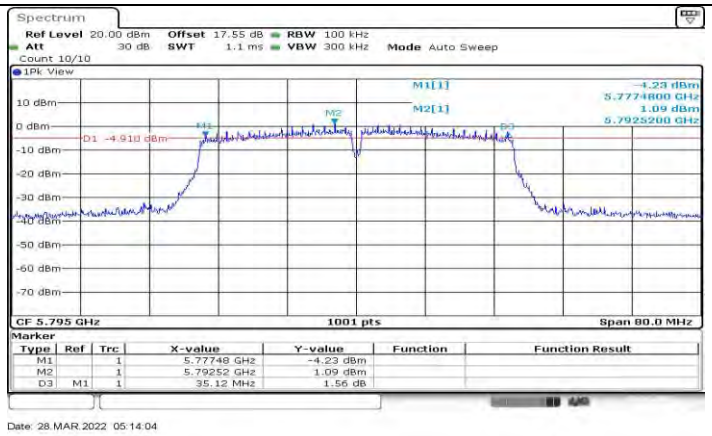
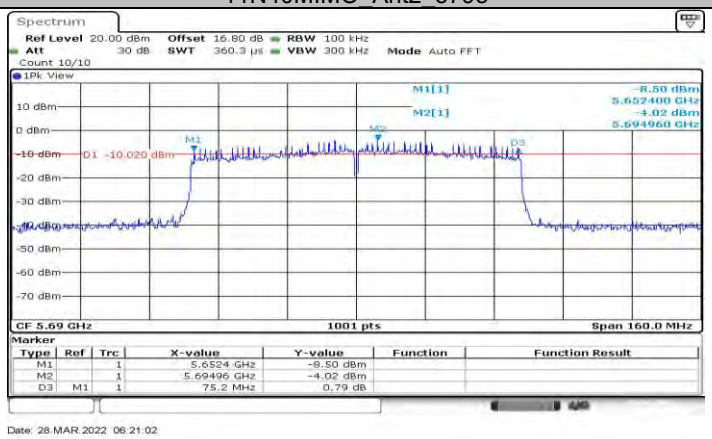
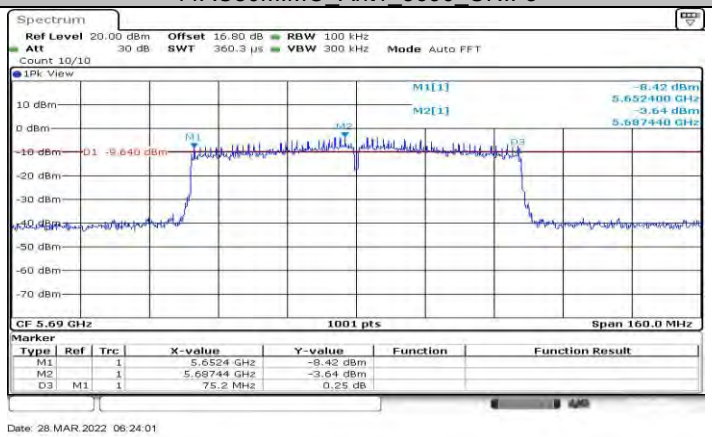



11N40MIMO_Ant2_5795




11AC80MIMO_Ant1_5690_UNII-3




11AC80MIMO_Ant2_5690_UNII-3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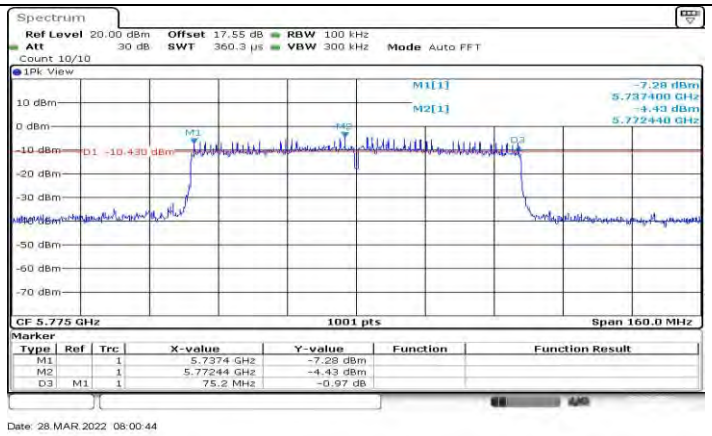
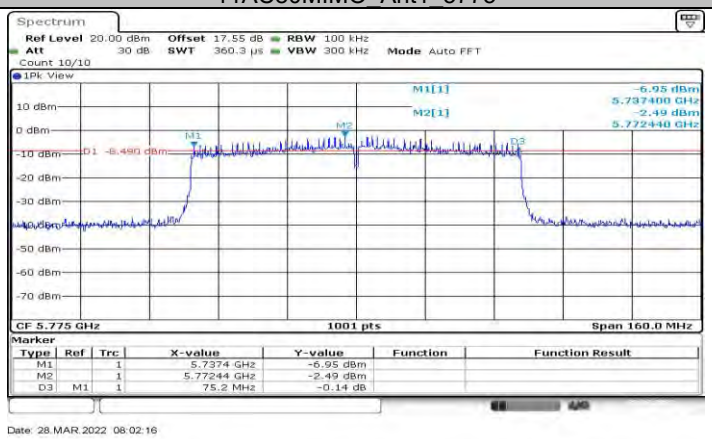



11AC80MIMO_Ant1_5775




11AC80MIMO_Ant2_5775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## 12.4. Appendix B: Maximum conducted output power

### 12.4.1. Test Result

| Test Mode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | 13.72 | ≤23.98 | PASS |
| | Ant2 | 5180 | 13.93 | ≤23.98 | PASS |
| | Ant1 | 5200 | 13.16 | ≤23.98 | PASS |
| | Ant2 | 5200 | 13.62 | ≤23.98 | PASS |
| | Ant1 | 5240 | 13.35 | ≤23.98 | PASS |
| | Ant2 | 5240 | 14.00 | ≤23.98 | PASS |
| | Ant1 | 5260 | 13.68 | ≤23.98 | PASS |
| | Ant2 | 5260 | 14.14 | ≤23.98 | PASS |
| | Ant1 | 5280 | 13.65 | ≤23.98 | PASS |
| | Ant2 | 5280 | 14.24 | ≤23.98 | PASS |
| | Ant1 | 5320 | 13.68 | ≤23.98 | PASS |
| | Ant2 | 5320 | 14.33 | ≤23.98 | PASS |
| | Ant1 | 5500 | 13.33 | ≤23.98 | PASS |
| | Ant2 | 5500 | 13.71 | ≤23.98 | PASS |
| | Ant1 | 5580 | 13.88 | ≤23.98 | PASS |
| | Ant2 | 5580 | 13.73 | ≤23.98 | PASS |
| | Ant1 | 5700 | 13.72 | ≤23.98 | PASS |
| | Ant2 | 5700 | 14.07 | ≤23.98 | PASS |
| | Ant1 | 5720_UNII-2C | 13.03 | ≤22.78 | PASS |
| | Ant2 | 5720_UNII-2C | 13.18 | ≤22.76 | PASS |
| | Ant1 | 5720_UNII-3 | 5.14 | ≤30.00 | PASS |
| | Ant2 | 5720_UNII-3 | 5.21 | ≤30.00 | PASS |
| | Ant1 | 5745 | 13.43 | ≤30.00 | PASS |
| | Ant2 | 5745 | 14.42 | ≤30.00 | PASS |
| | Ant1 | 5785 | 13.53 | ≤30.00 | PASS |
| | Ant2 | 5785 | 14.70 | ≤30.00 | PASS |
| | Ant1 | 5825 | 13.27 | ≤30.00 | PASS |
| | Ant2 | 5825 | 14.95 | ≤30.00 | PASS |
| 11N20MIMO | Ant1 | 5180 | 13.31 | ≤23.98 | PASS |
| | Ant2 | 5180 | 12.99 | ≤23.98 | PASS |
| | total | 5180 | 16.16 | ≤23.98 | PASS |
| | Ant1 | 5200 | 12.81 | ≤23.98 | PASS |
| | Ant2 | 5200 | 12.87 | ≤23.98 | PASS |
| | total | 5200 | 15.85 | ≤23.98 | PASS |
| | Ant1 | 5240 | 12.84 | ≤23.98 | PASS |
| | Ant2 | 5240 | 13.72 | ≤23.98 | PASS |
| | total | 5240 | 16.31 | ≤23.98 | PASS |
| | Ant1 | 5260 | 12.43 | ≤23.98 | PASS |
| | Ant2 | 5260 | 13.10 | ≤23.98 | PASS |
| | total | 5260 | 15.79 | ≤23.98 | PASS |
| | Ant1 | 5280 | 12.83 | ≤23.98 | PASS |
| | Ant2 | 5280 | 13.04 | ≤23.98 | PASS |
| | total | 5280 | 15.95 | ≤23.98 | PASS |
| | Ant1 | 5320 | 12.77 | ≤23.98 | PASS |
| | Ant2 | 5320 | 13.21 | ≤23.98 | PASS |
| | total | 5320 | 16.01 | ≤23.98 | PASS |
| | Ant1 | 5500 | 13.42 | ≤23.98 | PASS |
| | Ant2 | 5500 | 12.66 | ≤23.98 | PASS |
| | total | 5500 | 16.07 | ≤23.98 | PASS |
| | Ant1 | 5580 | 13.39 | ≤23.98 | PASS |
| | Ant2 | 5580 | 13.07 | ≤23.98 | PASS |
| | total | 5580 | 16.24 | ≤23.98 | PASS |
| | Ant1 | 5700 | 13.14 | ≤23.98 | PASS |


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| | | | | | |
|---|---|---|---|---|---|
| | Ant2 | 5700 | 13.31 | ≤23.98 | PASS |
| | total | 5700 | 16.24 | ≤23.98 | PASS |
| | Ant1 | 5720_UNII-2C | 12.37 | ≤22.78 | PASS |
| | Ant2 | 5720_UNII-2C | 12.37 | ≤22.80 | PASS |
| | total | 5720_UNII-2C | 15.38 | ≤23.98 | PASS |
| | Ant1 | 5720_UNII-3 | 4.73 | ≤30.00 | PASS |
| | Ant2 | 5720_UNII-3 | 4.93 | ≤30.00 | PASS |
| | total | 5720_UNII-3 | 7.84 | ≤30.00 | PASS |
| | Ant1 | 5745 | 12.78 | ≤30.00 | PASS |
| | Ant2 | 5745 | 13.65 | ≤30.00 | PASS |
| | total | 5745 | 16.25 | ≤30.00 | PASS |
| | Ant1 | 5785 | 12.33 | ≤30.00 | PASS |
| | Ant2 | 5785 | 14.58 | ≤30.00 | PASS |
| | total | 5785 | 16.61 | ≤30.00 | PASS |
| | Ant1 | 5825 | 12.57 | ≤30.00 | PASS |
| | Ant2 | 5825 | 14.34 | ≤30.00 | PASS |
| | total | 5825 | 16.55 | ≤30.00 | PASS |
| 11N40MIMO | Ant1 | 5190 | 12.99 | ≤23.98 | PASS |
| | Ant2 | 5190 | 12.82 | ≤23.98 | PASS |
| | total | 5190 | 15.92 | ≤23.98 | PASS |
| | Ant1 | 5230 | 12.29 | ≤23.98 | PASS |
| | Ant2 | 5230 | 13.02 | ≤23.98 | PASS |
| | total | 5230 | 15.68 | ≤23.98 | PASS |
| | Ant1 | 5270 | 12.68 | ≤23.98 | PASS |
| | Ant2 | 5270 | 13.07 | ≤23.98 | PASS |
| | total | 5270 | 15.89 | ≤23.98 | PASS |
| | Ant1 | 5310 | 12.93 | ≤23.98 | PASS |
| | Ant2 | 5310 | 13.27 | ≤23.98 | PASS |
| | total | 5310 | 16.11 | ≤23.98 | PASS |
| | Ant1 | 5510 | 13.37 | ≤23.98 | PASS |
| | Ant2 | 5510 | 12.23 | ≤23.98 | PASS |
| | total | 5510 | 15.85 | ≤23.98 | PASS |
| | Ant1 | 5590 | 13.53 | ≤23.98 | PASS |
| | Ant2 | 5590 | 12.96 | ≤23.98 | PASS |
| | total | 5590 | 16.26 | ≤23.98 | PASS |
| | Ant1 | 5670 | 13.05 | ≤23.98 | PASS |
| | Ant2 | 5670 | 13.20 | ≤23.98 | PASS |
| | total | 5670 | 16.14 | ≤23.98 | PASS |
| | Ant1 | 5710_UNII-2C | 13.02 | ≤23.98 | PASS |
| | Ant2 | 5710_UNII-2C | 13.14 | ≤23.98 | PASS |
| | total | 5710_UNII-2C | 16.09 | ≤23.98 | PASS |
| | Ant1 | 5710_UNII-3 | 0.37 | ≤30.00 | PASS |
| | Ant2 | 5710_UNII-3 | 0.61 | ≤30.00 | PASS |
| | total | 5710_UNII-3 | 3.50 | ≤30.00 | PASS |
| | Ant1 | 5755 | 12.76 | ≤30.00 | PASS |
| | Ant2 | 5755 | 13.93 | ≤30.00 | PASS |
| | total | 5755 | 16.39 | ≤30.00 | PASS |
| | Ant1 | 5795 | 12.36 | ≤30.00 | PASS |
| | Ant2 | 5795 | 14.40 | ≤30.00 | PASS |
| | total | 5795 | 16.51 | ≤30.00 | PASS |
| 11AC80MIMO | Ant1 | 5210 | 11.77 | ≤23.98 | PASS |
| | Ant2 | 5210 | 11.84 | ≤23.98 | PASS |
| | total | 5210 | 14.82 | ≤23.98 | PASS |
| | Ant1 | 5290 | 11.61 | ≤23.98 | PASS |
| | Ant2 | 5290 | 12.10 | ≤23.98 | PASS |
| | total | 5290 | 14.87 | ≤23.98 | PASS |
| | Ant1 | 5530 | 12.53 | ≤23.98 | PASS |
| | Ant2 | 5530 | 11.65 | ≤23.98 | PASS |
| | total | 5530 | 15.12 | ≤23.98 | PASS |
| | Ant1 | 5610 | 12.38 | ≤23.98 | PASS |


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| | | | | | |
|---|---|---|---|---|---|
| | Ant2 | 5610 | 11.50 | ≤23.98 | PASS |
| | total | 5610 | 14.97 | ≤23.98 | PASS |
| | Ant1 | 5690_UNII-2C | 11.80 | ≤23.98 | PASS |
| | Ant2 | 5690_UNII-2C | 12.23 | ≤23.98 | PASS |
| | total | 5690_UNII-2C | 15.03 | ≤23.98 | PASS |
| | Ant1 | 5690_UNII-3 | -3.99 | ≤30.00 | PASS |
| | Ant2 | 5690_UNII-3 | -4.02 | ≤30.00 | PASS |
| | total | 5690_UNII-3 | -0.99 | ≤30.00 | PASS |
| | Ant1 | 5775 | 12.21 | ≤30.00 | PASS |
| | Ant2 | 5775 | 13.53 | ≤30.00 | PASS |
| | total | 5775 | 15.93 | ≤30.00 | PASS |

Note: 1. Conducted Power=Meas. Level+ Correction Factor
2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.


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## 12.5. Appendix C: Maximum power spectral density

### 12.5.1. Test Result

| Test Mode | Antenna | Channel | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | 3.39 | ≤11.00 | PASS |
| | Ant2 | 5180 | 3.3 | ≤11.00 | PASS |
| | Ant1 | 5200 | 2.97 | ≤11.00 | PASS |
| | Ant2 | 5200 | 3.16 | ≤11.00 | PASS |
| | Ant1 | 5240 | 3.08 | ≤11.00 | PASS |
| | Ant2 | 5240 | 3.79 | ≤11.00 | PASS |
| | Ant1 | 5260 | 3.45 | ≤11.00 | PASS |
| | Ant2 | 5260 | 3.83 | ≤11.00 | PASS |
| | Ant1 | 5280 | 3.51 | ≤11.00 | PASS |
| | Ant2 | 5280 | 3.87 | ≤11.00 | PASS |
| | Ant1 | 5320 | 3.33 | ≤11.00 | PASS |
| | Ant2 | 5320 | 4.05 | ≤11.00 | PASS |
| | Ant1 | 5500 | 2.99 | ≤11.00 | PASS |
| | Ant2 | 5500 | 3.45 | ≤11.00 | PASS |
| | Ant1 | 5580 | 3.57 | ≤11.00 | PASS |
| | Ant2 | 5580 | 3.4 | ≤11.00 | PASS |
| | Ant1 | 5700 | 3.65 | ≤11.00 | PASS |
| | Ant2 | 5700 | 3.97 | ≤11.00 | PASS |
| | Ant1 | 5720_UNII-2C | 3.21 | ≤11.00 | PASS |
| | Ant2 | 5720_UNII-2C | 3.56 | ≤11.00 | PASS |
| | Ant1 | 5720_UNII-3 | -1.61 | ≤30.00 | PASS |
| | Ant2 | 5720_UNII-3 | -1.38 | ≤30.00 | PASS |
| | Ant1 | 5745 | 0.28 | ≤30.00 | PASS |
| | Ant2 | 5745 | 1.27 | ≤30.00 | PASS |
| | Ant1 | 5785 | 0.37 | ≤30.00 | PASS |
| | Ant2 | 5785 | 1.57 | ≤30.00 | PASS |
| | Ant1 | 5825 | 0.21 | ≤30.00 | PASS |
| | Ant2 | 5825 | 1.72 | ≤30.00 | PASS |
| 11N20MIMO | Ant1 | 5180 | 2.76 | ≤11.00 | PASS |
| | Ant2 | 5180 | 2.53 | ≤11.00 | PASS |
| | total | 5180 | 5.66 | ≤11.00 | PASS |
| | Ant1 | 5200 | 2.07 | ≤11.00 | PASS |
| | Ant2 | 5200 | 2.29 | ≤11.00 | PASS |
| | total | 5200 | 5.19 | ≤11.00 | PASS |
| | Ant1 | 5240 | 2.09 | ≤11.00 | PASS |
| | Ant2 | 5240 | 3.32 | ≤11.00 | PASS |
| | total | 5240 | 5.76 | ≤11.00 | PASS |
| | Ant1 | 5260 | 1.74 | ≤11.00 | PASS |
| | Ant2 | 5260 | 2.7 | ≤11.00 | PASS |
| | total | 5260 | 5.26 | ≤11.00 | PASS |
| | Ant1 | 5280 | 2.34 | ≤11.00 | PASS |
| | Ant2 | 5280 | 2.65 | ≤11.00 | PASS |
| | total | 5280 | 5.51 | ≤11.00 | PASS |
| | Ant1 | 5320 | 2.15 | ≤11.00 | PASS |
| | Ant2 | 5320 | 2.76 | ≤11.00 | PASS |
| | total | 5320 | 5.48 | ≤11.00 | PASS |
| | Ant1 | 5500 | 2.96 | ≤11.00 | PASS |
| | Ant2 | 5500 | 2.14 | ≤11.00 | PASS |
| | total | 5500 | 5.58 | ≤11.00 | PASS |
| | Ant1 | 5580 | 2.81 | ≤11.00 | PASS |
| | Ant2 | 5580 | 2.6 | ≤11.00 | PASS |
| | total | 5580 | 5.72 | ≤11.00 | PASS |
| | Ant1 | 5700 | 2.7 | ≤11.00 | PASS |


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| | | | | | |
|---|---|---|---|---|---|
| | Ant2 | 5700 | 2.99 | ≤11.00 | PASS |
| | total | 5700 | 5.86 | ≤11.00 | PASS |
| | Ant1 | 5720_UNII-2C | 2.4 | ≤11.00 | PASS |
| | Ant2 | 5720_UNII-2C | 2.67 | ≤11.00 | PASS |
| | total | 5720_UNII-2C | 5.55 | ≤11.00 | PASS |
| | Ant1 | 5720_UNII-3 | -2.57 | ≤30.00 | PASS |
| | Ant2 | 5720_UNII-3 | -2.3 | ≤30.00 | PASS |
| | total | 5720_UNII-3 | 0.58 | ≤30.00 | PASS |
| | Ant1 | 5745 | -0.56 | ≤30.00 | PASS |
| | Ant2 | 5745 | 0.29 | ≤30.00 | PASS |
| | total | 5745 | 2.90 | ≤30.00 | PASS |
| | Ant1 | 5785 | -0.89 | ≤30.00 | PASS |
| | Ant2 | 5785 | 1.15 | ≤30.00 | PASS |
| | total | 5785 | 3.26 | ≤30.00 | PASS |
| | Ant1 | 5825 | -0.53 | ≤30.00 | PASS |
| | Ant2 | 5825 | 1.07 | ≤30.00 | PASS |
| | total | 5825 | 3.35 | ≤30.00 | PASS |
| 11N40MIMO | Ant1 | 5190 | -0.53 | ≤11.00 | PASS |
| | Ant2 | 5190 | -0.83 | ≤11.00 | PASS |
| | total | 5190 | 2.33 | ≤11.00 | PASS |
| | Ant1 | 5230 | -1.11 | ≤11.00 | PASS |
| | Ant2 | 5230 | -0.42 | ≤11.00 | PASS |
| | total | 5230 | 2.26 | ≤11.00 | PASS |
| | Ant1 | 5270 | -0.84 | ≤11.00 | PASS |
| | Ant2 | 5270 | -0.2 | ≤11.00 | PASS |
| | total | 5270 | 2.50 | ≤11.00 | PASS |
| | Ant1 | 5310 | -0.45 | ≤11.00 | PASS |
| | Ant2 | 5310 | -0.04 | ≤11.00 | PASS |
| | total | 5310 | 2.77 | ≤11.00 | PASS |
| | Ant1 | 5510 | -0.12 | ≤11.00 | PASS |
| | Ant2 | 5510 | -1.18 | ≤11.00 | PASS |
| | total | 5510 | 2.39 | ≤11.00 | PASS |
| | Ant1 | 5590 | -0.12 | ≤11.00 | PASS |
| | Ant2 | 5590 | -0.3 | ≤11.00 | PASS |
| | total | 5590 | 2.80 | ≤11.00 | PASS |
| | Ant1 | 5670 | -0.68 | ≤11.00 | PASS |
| | Ant2 | 5670 | -0.24 | ≤11.00 | PASS |
| | total | 5670 | 2.56 | ≤11.00 | PASS |
| | Ant1 | 5710_UNII-2C | 0.12 | ≤11.00 | PASS |
| | Ant2 | 5710_UNII-2C | -0.05 | ≤11.00 | PASS |
| | total | 5710_UNII-2C | 3.05 | ≤11.00 | PASS |
| | Ant1 | 5710_UNII-3 | -6.68 | ≤30.00 | PASS |
| | Ant2 | 5710_UNII-3 | -6.49 | ≤30.00 | PASS |
| | total | 5710_UNII-3 | -3.57 | ≤30.00 | PASS |
| | Ant1 | 5755 | -3.73 | ≤30.00 | PASS |
| | Ant2 | 5755 | -2.14 | ≤30.00 | PASS |
| | total | 5755 | 0.15 | ≤30.00 | PASS |
| | Ant1 | 5795 | -3.77 | ≤30.00 | PASS |
| | Ant2 | 5795 | -1.9 | ≤30.00 | PASS |
| | total | 5795 | 0.28 | ≤30.00 | PASS |
| 11AC80MIMO | Ant1 | 5210 | -4.55 | ≤11.00 | PASS |
| | Ant2 | 5210 | -4.81 | ≤11.00 | PASS |
| | total | 5210 | -1.67 | ≤11.00 | PASS |
| | Ant1 | 5290 | -4.57 | ≤11.00 | PASS |
| | Ant2 | 5290 | -4.23 | ≤11.00 | PASS |
| | total | 5290 | -1.39 | ≤11.00 | PASS |
| | Ant1 | 5530 | -3.58 | ≤11.00 | PASS |
| | Ant2 | 5530 | -4.85 | ≤11.00 | PASS |
| | total | 5530 | -1.16 | ≤11.00 | PASS |
| | Ant1 | 5610 | -3.82 | ≤11.00 | PASS |


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| | | | | | |
|---|---|---|---|---|---|
| | Ant2 | 5610 | -4.79 | ≤11.00 | PASS |
| | total | 5610 | -1.27 | ≤11.00 | PASS |
| | Ant1 | 5690_UNII-2C | -4.53 | ≤11.00 | PASS |
| | Ant2 | 5690_UNII-2C | -3.83 | ≤11.00 | PASS |
| | total | 5690_UNII-2C | -1.16 | ≤11.00 | PASS |
| | Ant1 | 5690_UNII-3 | -10.24 | ≤30.00 | PASS |
| | Ant2 | 5690_UNII-3 | -10.1 | ≤30.00 | PASS |
| | total | 5690_UNII-3 | -7.16 | ≤30.00 | PASS |
| | Ant1 | 5775 | -7.53 | ≤30.00 | PASS |
| | Ant2 | 5775 | -5.51 | ≤30.00 | PASS |
| | total | 5775 | -3.39 | ≤30.00 | PASS |

Note：1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.


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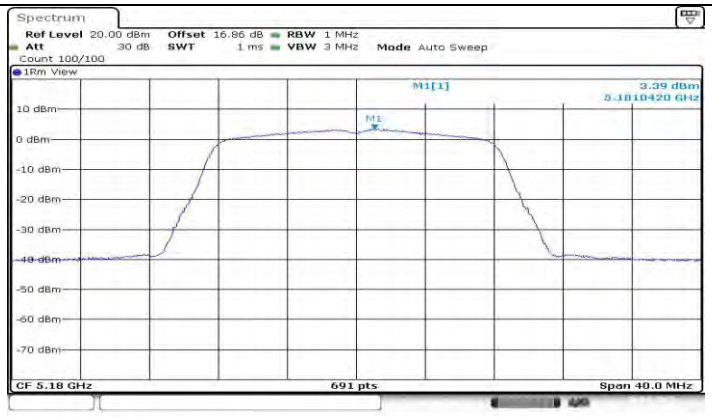
### 12.5.2. Test Graphs




11A_Ant1_5180

11A_Ant2_5180

11A_Ant1_5200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11A_Ant2_5200

11A_Ant1_5240

11A_Ant2_5240


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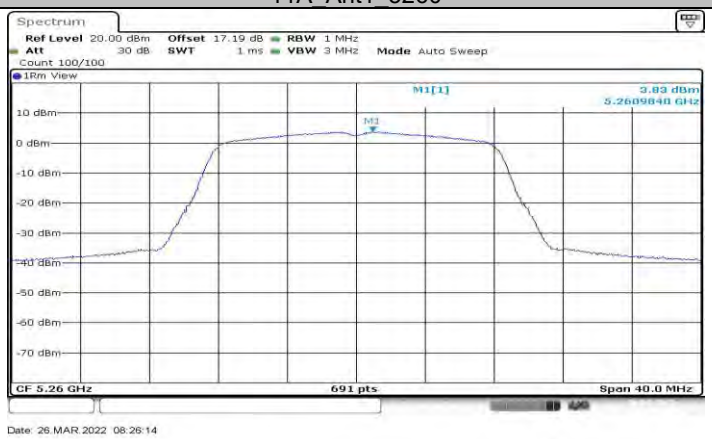
11A_Ant1_5260




11A_Ant2_5260

11A_Ant1_5280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11A_Ant2_5280

11A_Ant1_5320

11A_Ant2_5320


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11A_Ant1_5500

11A_Ant2_5500

11A_Ant1_5580


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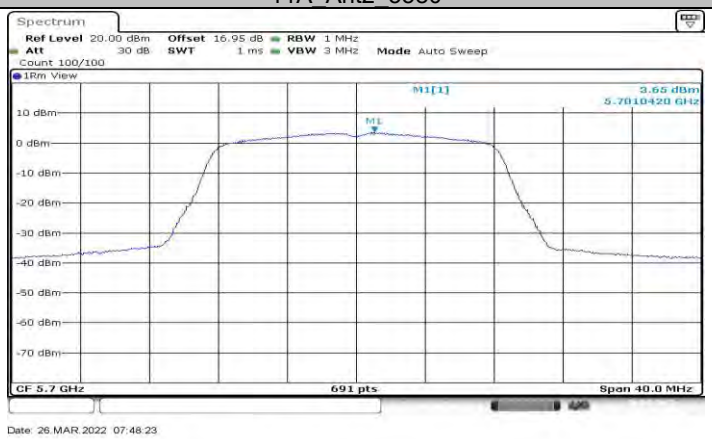
11A_Ant2_5580




11A_Ant1_5700

11A_Ant2_5700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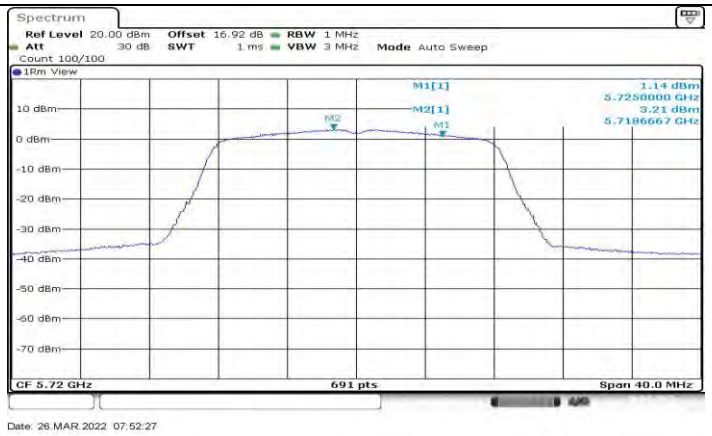


11A_Ant1_5720_UNII-2C

11A_Ant2_5720_UNII-2C

11A_Ant1_5720_UNII-3


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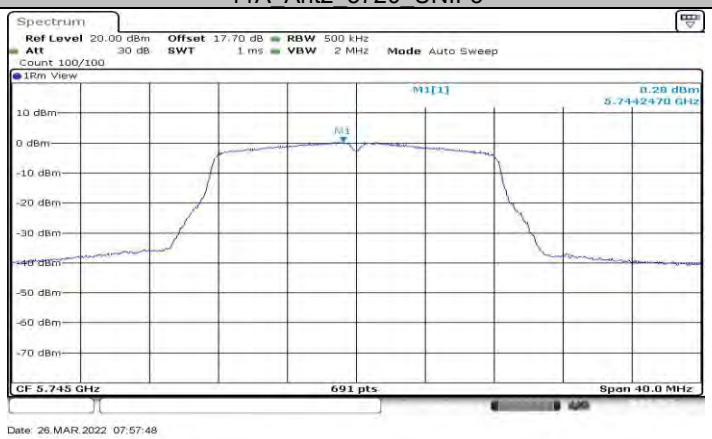
11A_Ant2_5720_UNII-3




11A_Ant1_5745

11A_Ant2_5745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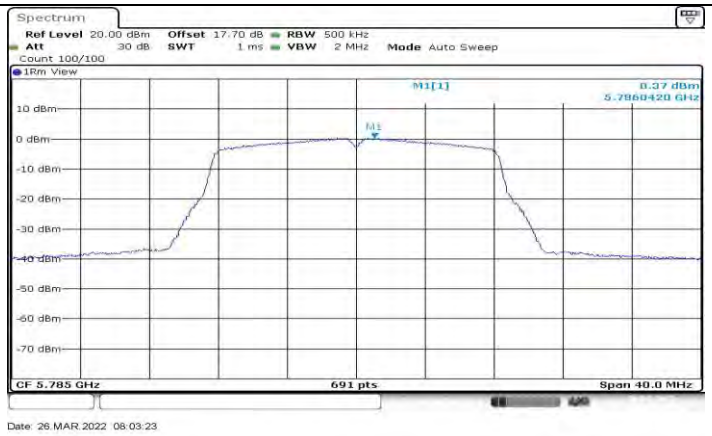


11A_Ant1_5785

11A_Ant2_5785

11A_Ant1_5825


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11A_Ant2_5825

11N20MIMO_Ant1_5180

11N20MIMO_Ant2_5180


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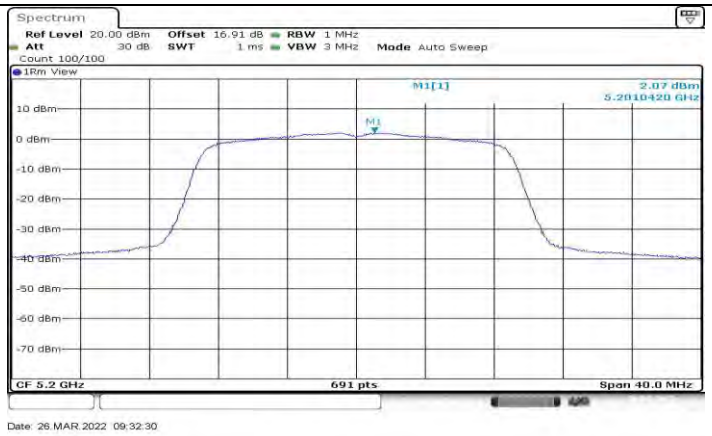
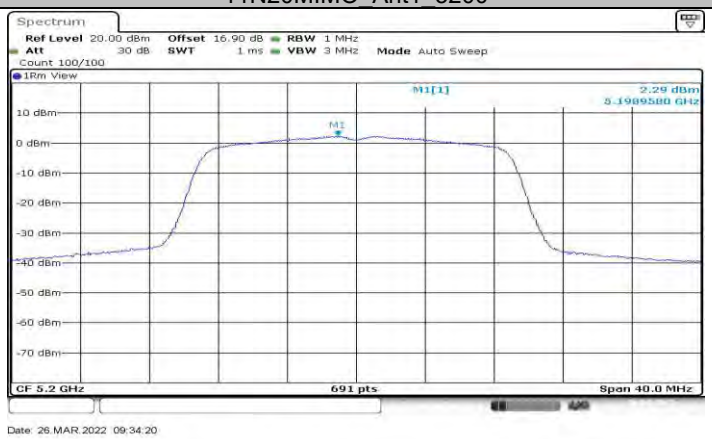



11N20MIMO_Ant1_5200




11N20MIMO_Ant2_5200

11N20MIMO_Ant1_5240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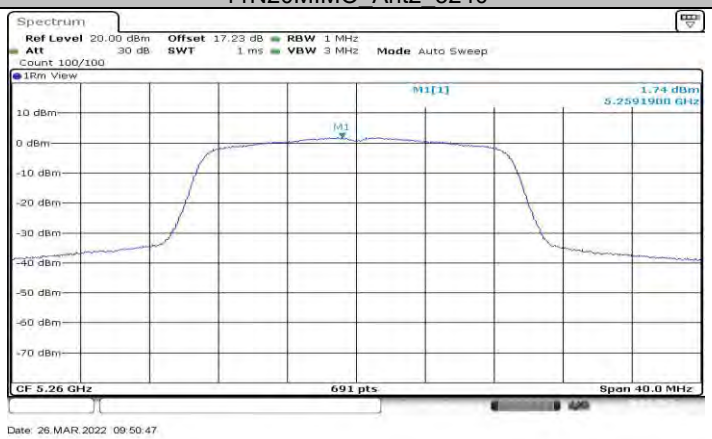
11N20MIMO_Ant2_5240




11N20MIMO_Ant1_5260

11N20MIMO_Ant2_5260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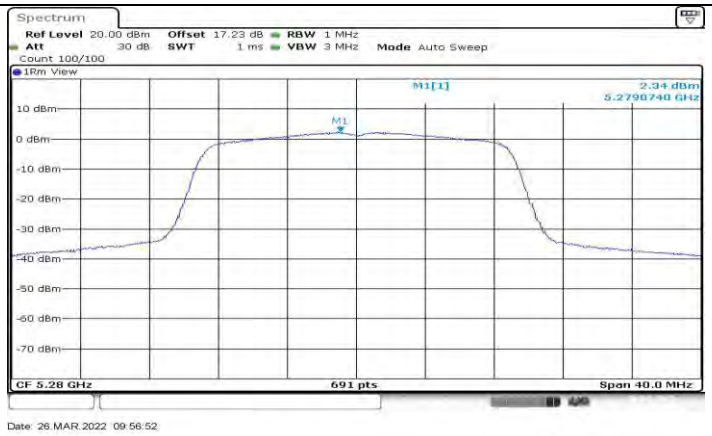
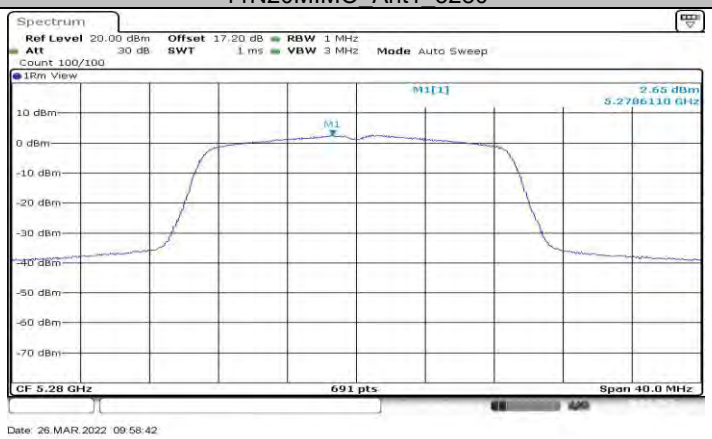



11N20MIMO_Ant1_5280




11N20MIMO_Ant2_5280

11N20MIMO_Ant1_5320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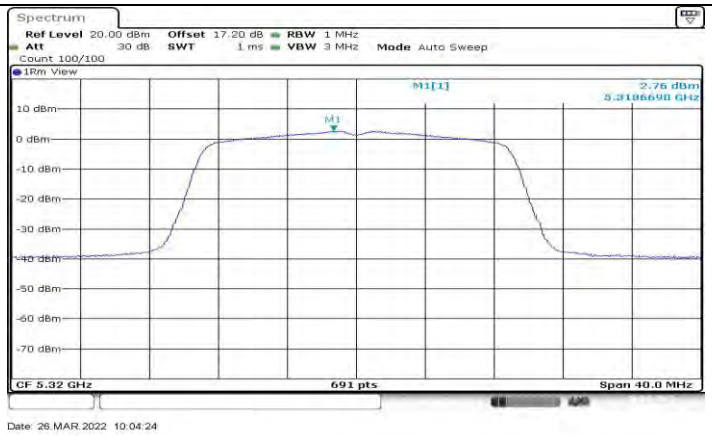


11N20MIMO_Ant2_5320

11N20MIMO_Ant1_5500

11N20MIMO_Ant2_5500


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11N20MIMO_Ant1_5580

11N20MIMO_Ant2_5580

11N20MIMO_Ant1_5700


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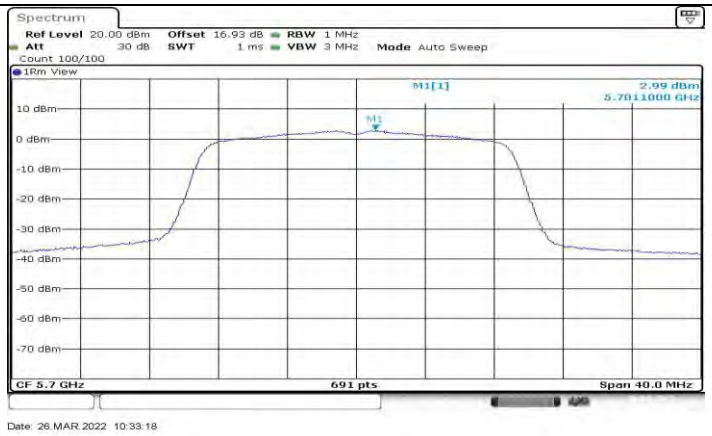
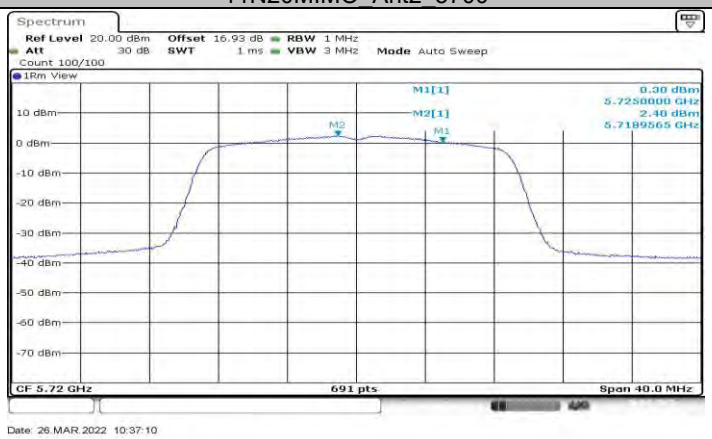
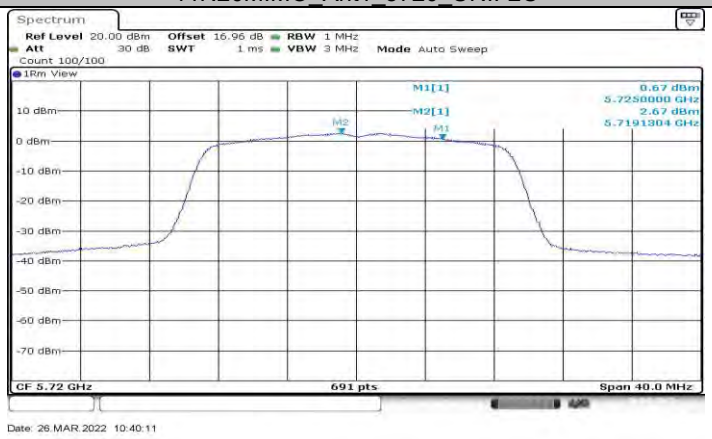



11N20MIMO_Ant2_5700




11N20MIMO_Ant1_5720_UNII-2C




11N20MIMO_Ant2_5720_UNII-2C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11N20MIMO_Ant1_5720_UNII-3

11N20MIMO_Ant2_5720_UNII-3

11N20MIMO_Ant1_5745


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11N20MIMO_Ant2_5745

11N20MIMO_Ant1_5785

11N20MIMO_Ant2_5785


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11N20MIMO_Ant1_5825

11N20MIMO_Ant2_5825

11N40MIMO_Ant1_5190


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11N40MIMO_Ant2_5190

11N40MIMO_Ant1_5230

11N40MIMO_Ant2_5230


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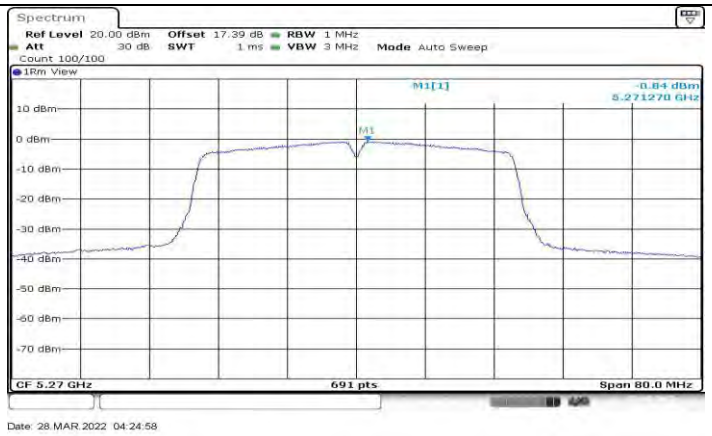


11N40MIMO_Ant1_5270

11N40MIMO_Ant2_5270

11N40MIMO_Ant1_5310


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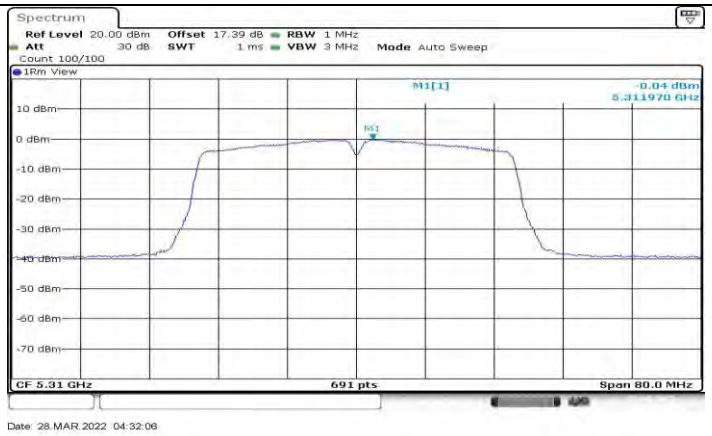
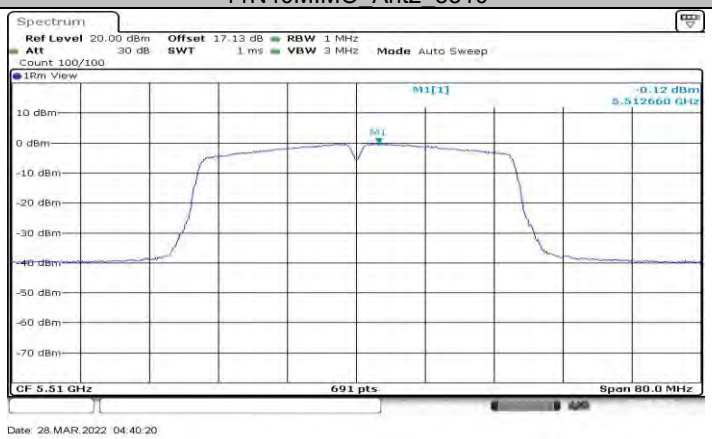



11N40MIMO_Ant2_5310




11N40MIMO_Ant1_5510

11N40MIMO_Ant2_5510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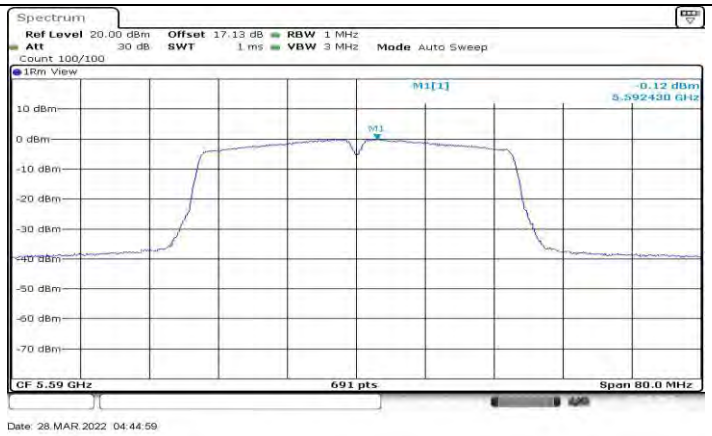


11N40MIMO_Ant1_5590

11N40MIMO_Ant2_5590

11N40MIMO_Ant1_5670


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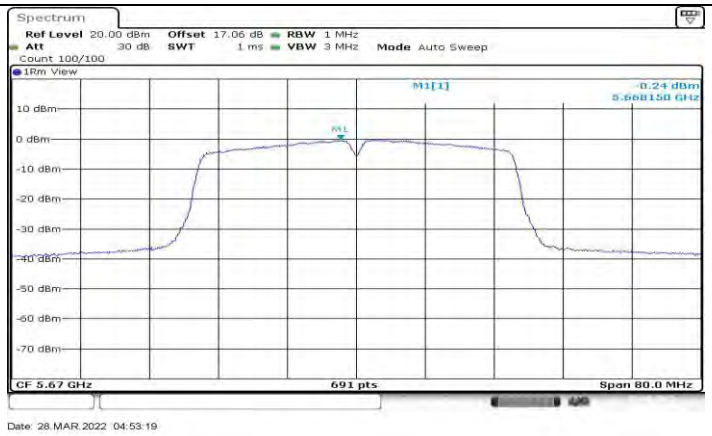


11N40MIMO_Ant2_5670

11N40MIMO_Ant1_5710_UNII-2C

11N40MIMO_Ant2_5710_UNII-2C


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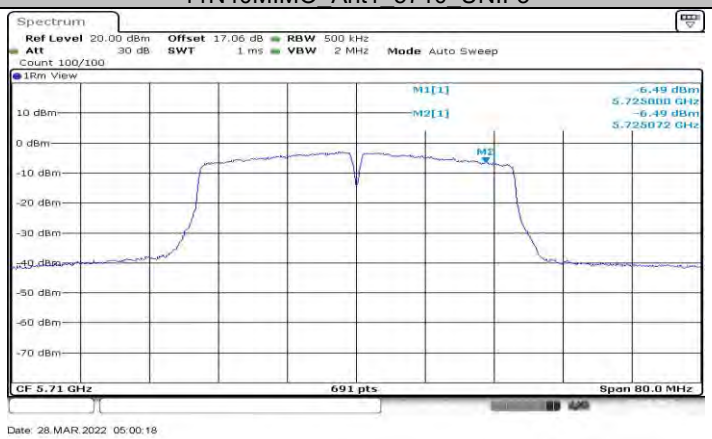
11N40MIMO_Ant1_5710_UNII-3




11N40MIMO_Ant2_5710_UNII-3

11N40MIMO_Ant1_5755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11N40MIMO_Ant2_5755

11N40MIMO_Ant1_5795

11N40MIMO_Ant2_5795


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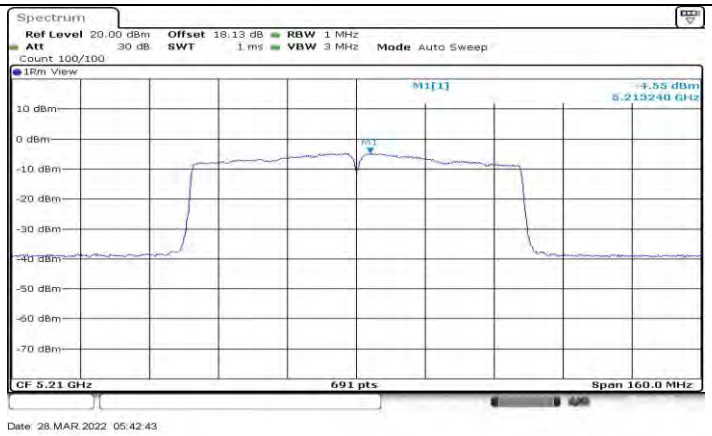
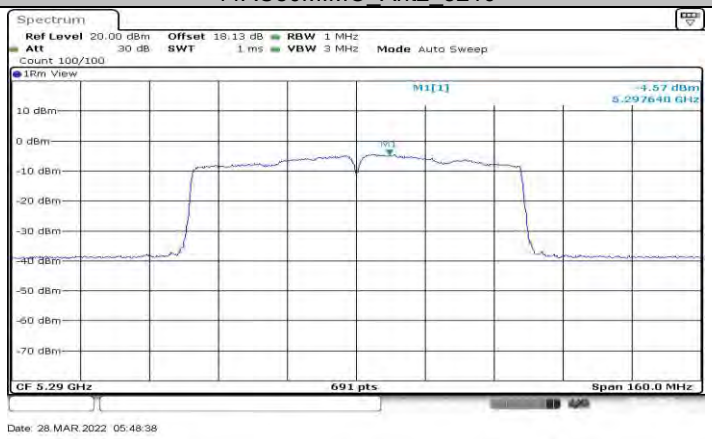



11AC80MIMO_Ant1_5210

11AC80MIMO_Ant2_5210




11AC80MIMO_Ant1_5290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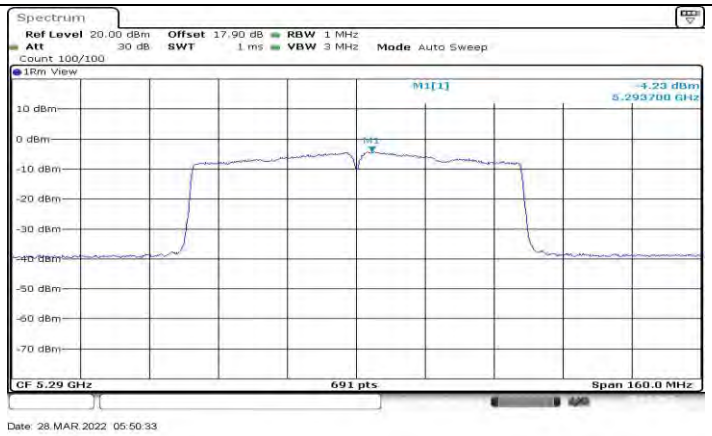
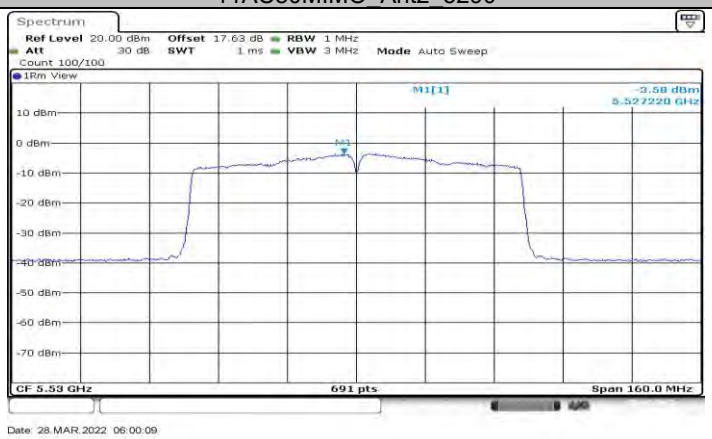
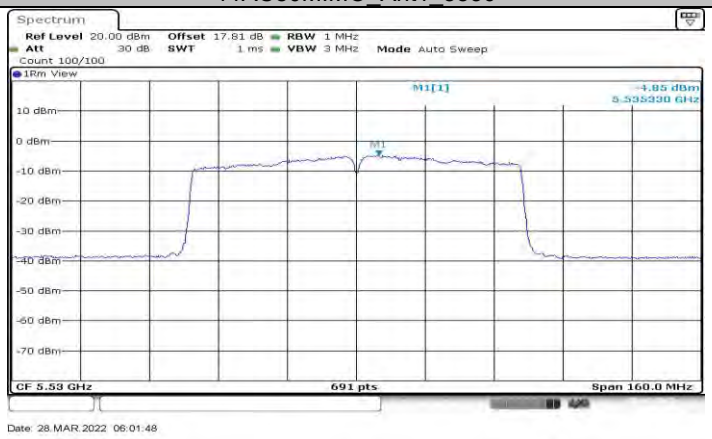



11AC80MIMO_Ant2_5290




11AC80MIMO_Ant1_5530




11AC80MIMO_Ant2_5530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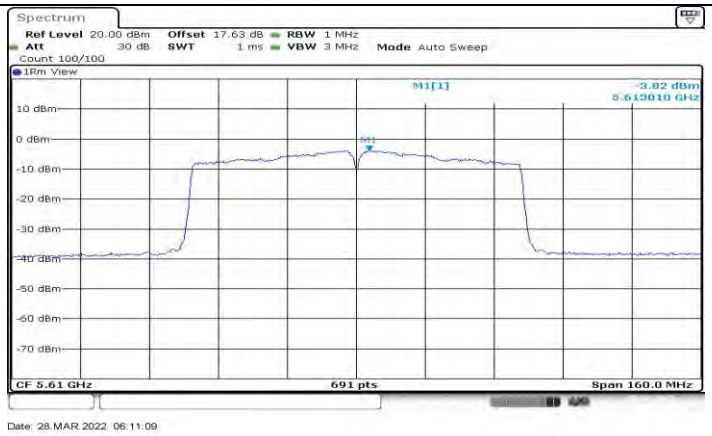
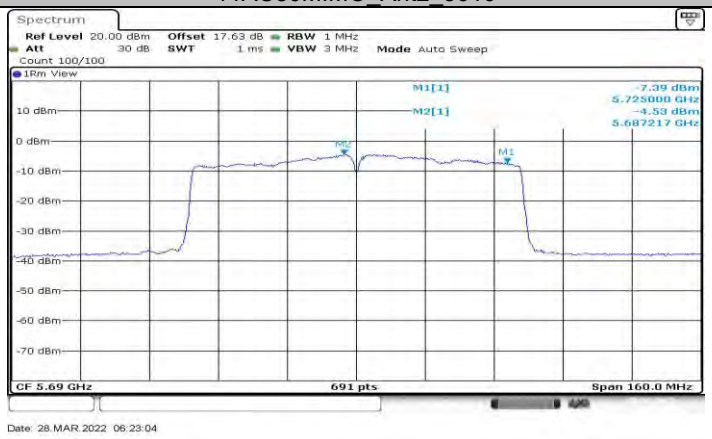



11AC80MIMO_Ant1_5610

11AC80MIMO_Ant2_5610




11AC80MIMO_Ant1_5690_UNII-2C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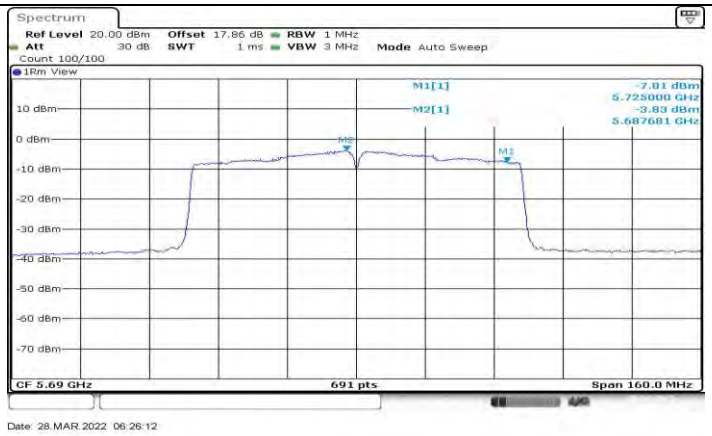


11AC80MIMO_Ant2_5690_UNII-2C

11AC80MIMO_Ant1_5690_UNII-3

11AC80MIMO_Ant2_5690_UNII-3


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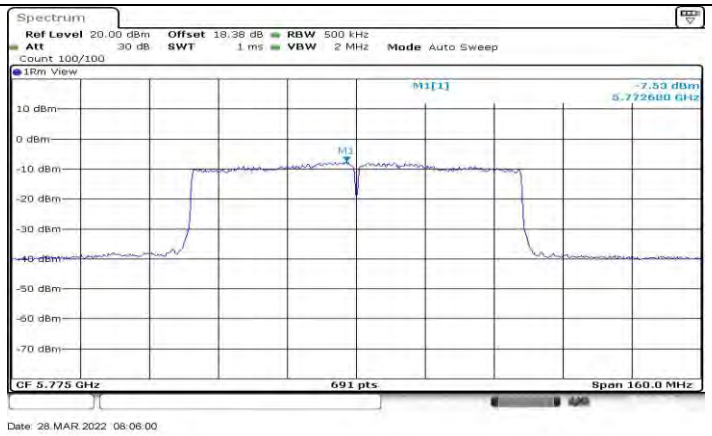
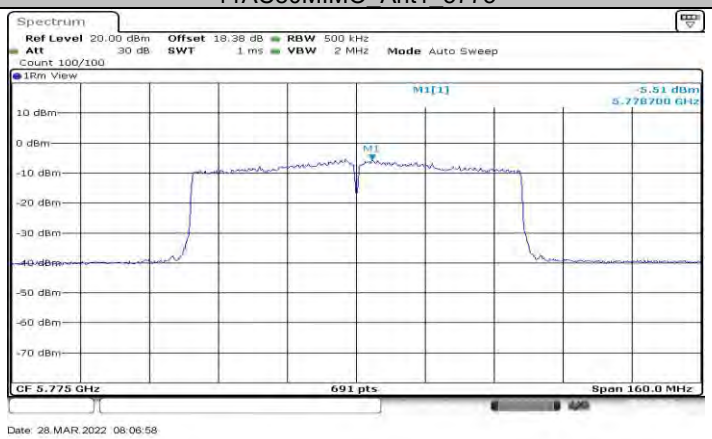



11AC80MIMO_Ant1_5775




11AC80MIMO_Ant2_5775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## 12.6. Appendix D: Duty Cycle

### 12.6.1. Test Result

| Test Mode | On Time (msec) | Period (msec) | Duty Cycle x (Linear) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | 1/T Minimum VBW (kHz) | Final setting For VBW (kHz) |
|---|---|---|---|---|---|---|---|
| 11A | 1.38 | 1.42 | 0.9718 | 97.18 | 0.12 | 0.72 | 1 |
| 11N20MIMO | 1.28 | 1.32 | 0.9697 | 96.97 | 0.13 | 0.78 | 1 |
| 11N40MIMO | 0.64 | 0.68 | 0.9412 | 94.12 | 0.26 | 1.56 | 2 |
| 11AC80MIMO | 0.18 | 0.23 | 0.7826 | 78.26 | 1.06 | 5.56 | 6 |

Note:
Duty Cycle Correction Factor=10log (1/x).
Where: x is Duty Cycle (Linear)
Where: T is On Time
If that calculated VBW is not available on the analyzer then the next higher value should be used.


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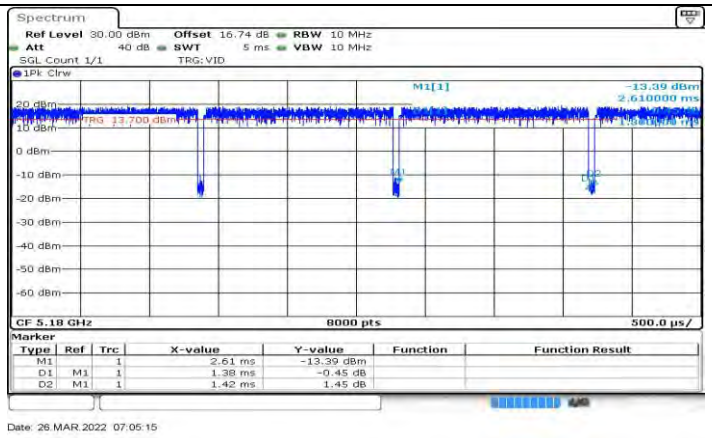
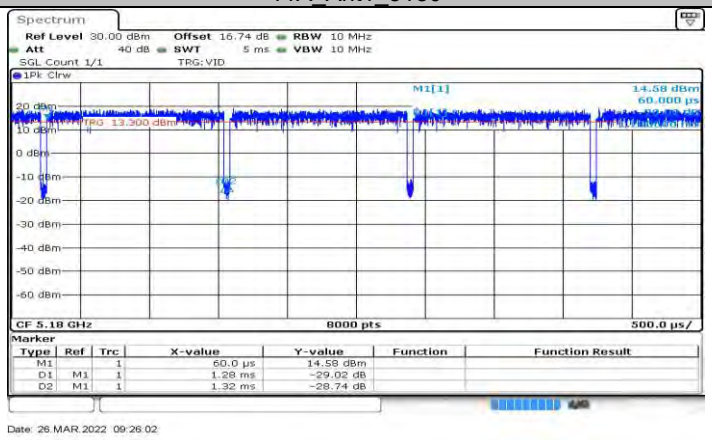
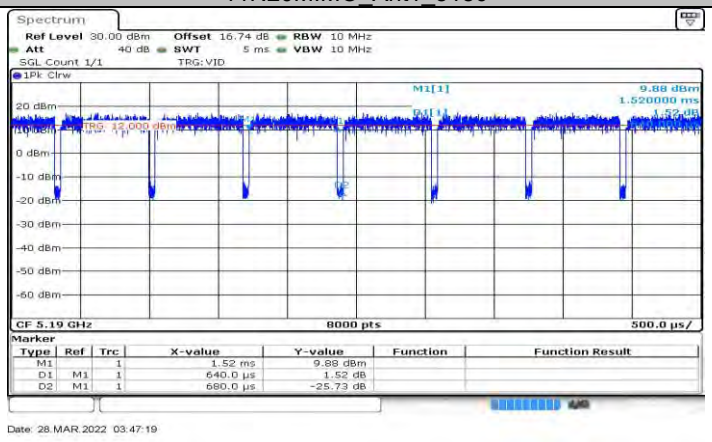
### 12.6.2. Test Graphs




11A_Ant1_5180




11N20MIMO_Ant1_5180




11N40MIMO_Ant1_5190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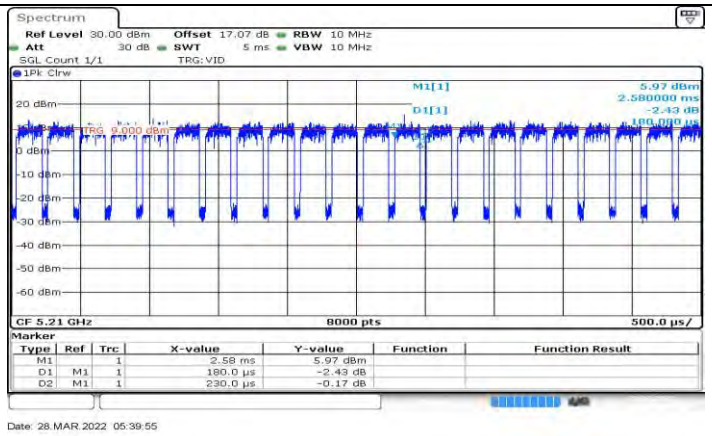


11AC80MIMO_Ant1_5210


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## 12.7. Appendix E: DFS Detection Thresholds

### 12.7.1. Test Result

| Test Mode | Channel | Radar Type | Result | Limit[dbm] | Verdict |
|---|---|---|---|---|---|
| 11AC80MIMO | 5530 | Type0 | -62.49 | -58.00 | PASS |


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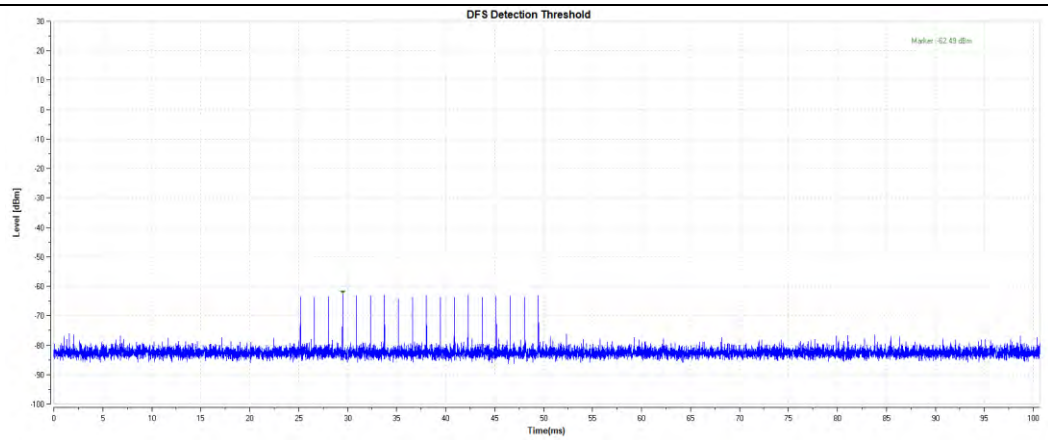
### 12.7.2. Test Graphs




11AC80MIMO_5530_Type0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## 12.8. Appendix F: Channel Move Time and Channel Closing Transmission Time

### 12.8.1. Test Result

| Test Mode | Channel | CCT[ms] | Limit[ms] | CMT[ms] | Limit[ms] | Verdict |
|---|---|---|---|---|---|---|
| 11AC80MIMO | 5530 | 200+3.9 | 200+60 | 501.5 | 10000 | PASS |


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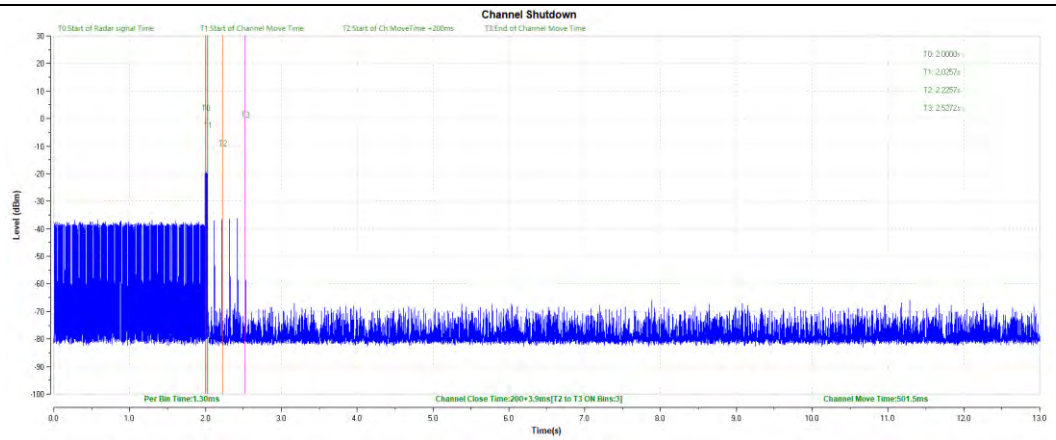
### 12.8.2. Test Graphs




11AC80MIMO_5530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## 12.9. Appendix G: Non-Occupancy Period

Test Result

| Test Mode | Channel | Result | Limit[s] | Verdict |
|---|---|---|---|---|
| 11AC80MIMO | 5530 | see test graph | ≥1800 | PASS |


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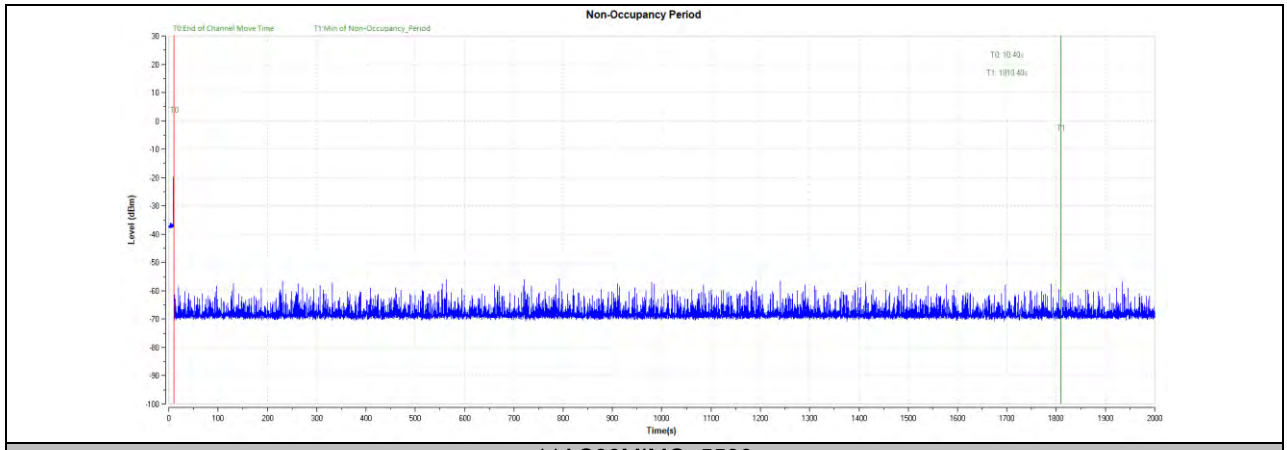
### 12.9.1. Test Graphs




11AC80MIMO_5530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## 12.10. Appendix H: Frequency Stability

### 12.10.1. Test Result

| Frequency Error vs. Voltage | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 802.11a20:5200MHz | | | | | | | | | |
| Temp. | Volt. | 0 Minute | | 2 Minute | | 5 Minute | | 10 Minute | |
| | | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| TN | VL | 5200.0095 | 1.83 | 5200.0063 | 1.21 | 5200.0201 | 3.86 | 5200.0184 | 3.54 |
| TN | VN | 5200.0213 | 4.10 | 5200.0127 | 2.44 | 5200.0094 | 1.80 | 5200.0190 | 3.65 |
| TN | VH | 5199.9872 | -2.47 | 5200.0250 | 4.80 | 5199.9964 | -0.70 | 5200.0100 | 1.93 |

| Frequency Error vs. Temperature | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 802.11a:5200MHz | | | | | | | | | |
| Temp. | Volt. | 0 Minute | | 2 Minute | | 5 Minute | | 10 Minute | |
| | | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| 70 | VN | 5199.9832 | -3.23 | 5199.9752 | -4.77 | 5199.9880 | -2.30 | 5200.0156 | 3.00 |
| 60 | VN | 5200.0169 | 3.25 | 5200.0115 | 2.21 | 5200.0117 | 2.25 | 5200.0206 | 3.97 |
| 50 | VN | 5200.0040 | 0.76 | 5200.0002 | 0.04 | 5199.9785 | -4.13 | 5199.9766 | -4.49 |
| 40 | VN | 5199.9890 | -2.11 | 5200.0070 | 1.35 | 5200.0215 | 4.13 | 5199.9801 | -3.83 |
| 30 | VN | 5200.0242 | 4.66 | 5200.0040 | 0.77 | 5199.9865 | -2.59 | 5200.0164 | 3.14 |
| 20 | VN | 5200.0033 | 0.63 | 5199.9794 | -3.95 | 5199.9781 | -4.20 | 5200.0203 | 3.90 |
| 10 | VN | 5199.9853 | -2.82 | 5200.0015 | 0.29 | 5199.9784 | -4.15 | 5199.9980 | -0.38 |
| 0 | VN | 5199.9983 | -0.32 | 5199.9970 | -0.57 | 5200.0163 | 3.13 | 5199.9915 | -1.63 |
| -10 | VN | 5200.0240 | 4.62 | 5199.9862 | -2.66 | 5200.0124 | 2.39 | 5199.9796 | -3.92 |

Note:
1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 10 TEST ENVIRONMENT.


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| Frequency Error vs. Voltage | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 802.11a:5825MHz | | | | | | | | | |
| Temp. | Volt. | 0 Minute | | 2 Minute | | 5 Minute | | 10 Minute | |
| | | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| TN | VL | 5824.9853 | -2.52 | 5824.9946 | -0.93 | 5824.9931 | -1.19 | 5825.0080 | 1.38 |
| TN | VN | 5824.9963 | -0.63 | 5825.0015 | 0.26 | 5824.9878 | -2.10 | 5825.0104 | 1.78 |
| TN | VH | 5824.9832 | -2.88 | 5825.0051 | 0.87 | 5824.9863 | -2.35 | 5824.9881 | -2.04 |

| Frequency Error vs. Temperature | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 802.11a:5825MHz | | | | | | | | | |
| Temp. | Volt. | 0 Minute | | 2 Minute | | 5 Minute | | 10 Minute | |
| | | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| 70 | VN | 5825.0103 | 1.77 | 5825.0102 | 1.75 | 5824.9844 | -2.68 | 5825.0234 | 4.02 |
| 60 | VN | 5824.9879 | -2.08 | 5825.0038 | 0.65 | 5824.9929 | -1.21 | 5825.0092 | 1.58 |
| 50 | VN | 5825.0000 | 0.00 | 5824.9798 | -3.46 | 5825.0136 | 2.34 | 5824.9880 | -2.06 |
| 40 | VN | 5825.0245 | 4.21 | 5825.0003 | 0.05 | 5824.9777 | -3.83 | 5824.9798 | -3.47 |
| 30 | VN | 5824.9831 | -2.91 | 5824.9862 | -2.38 | 5824.9762 | -4.08 | 5824.9921 | -1.36 |
| 20 | VN | 5825.0132 | 2.26 | 5825.0170 | 2.92 | 5824.9750 | -4.28 | 5824.9871 | -2.22 |
| 10 | VN | 5824.9995 | -0.09 | 5825.0086 | 1.48 | 5825.0091 | 1.56 | 5824.9809 | -3.28 |
| 0 | VN | 5824.9898 | -1.75 | 5824.9938 | -1.06 | 5825.0135 | 2.31 | 5825.0127 | 2.17 |
| -10 | VN | 5824.9960 | -0.68 | 5824.9943 | -0.98 | 5825.0055 | 0.95 | 5825.0147 | 2.53 |

Note:
1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 10 TEST ENVIRONMENT.

## END OF REPORT


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