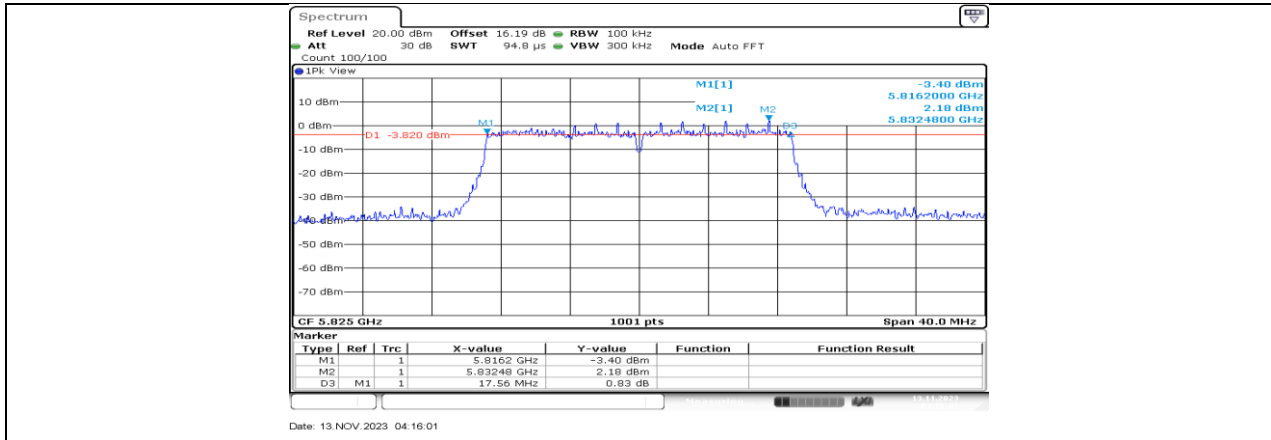
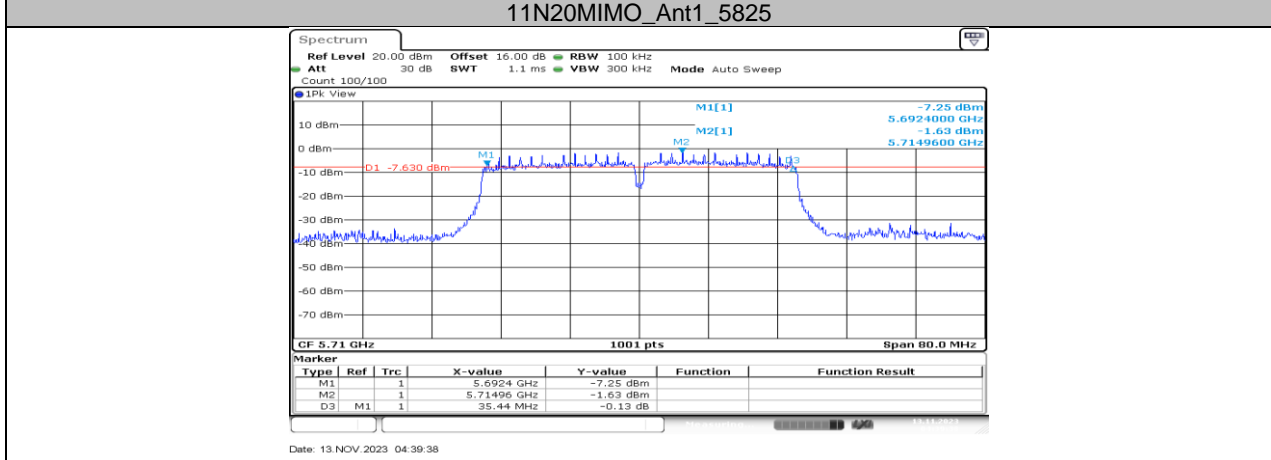


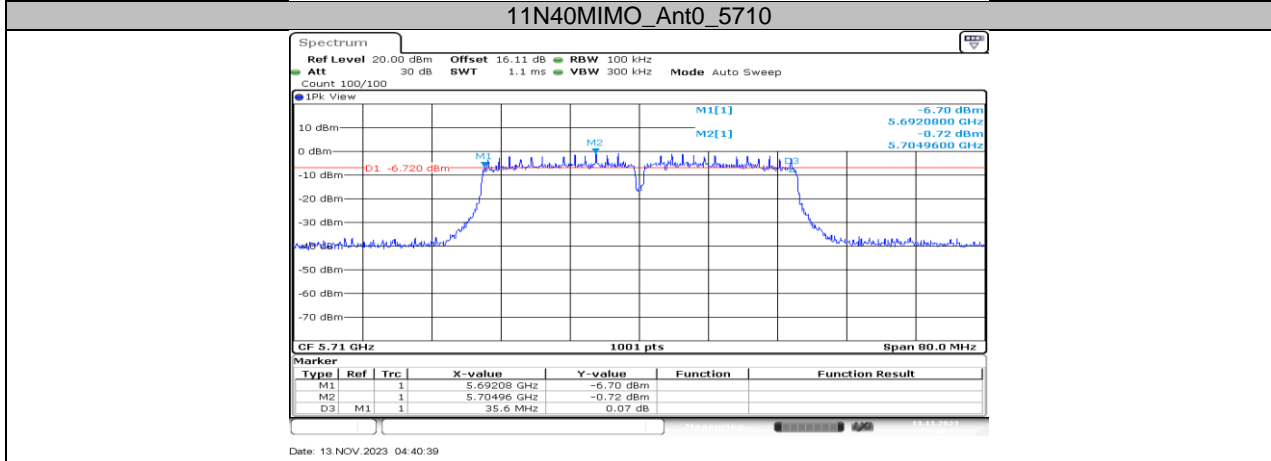
11N20MIMO_Ant0_5825



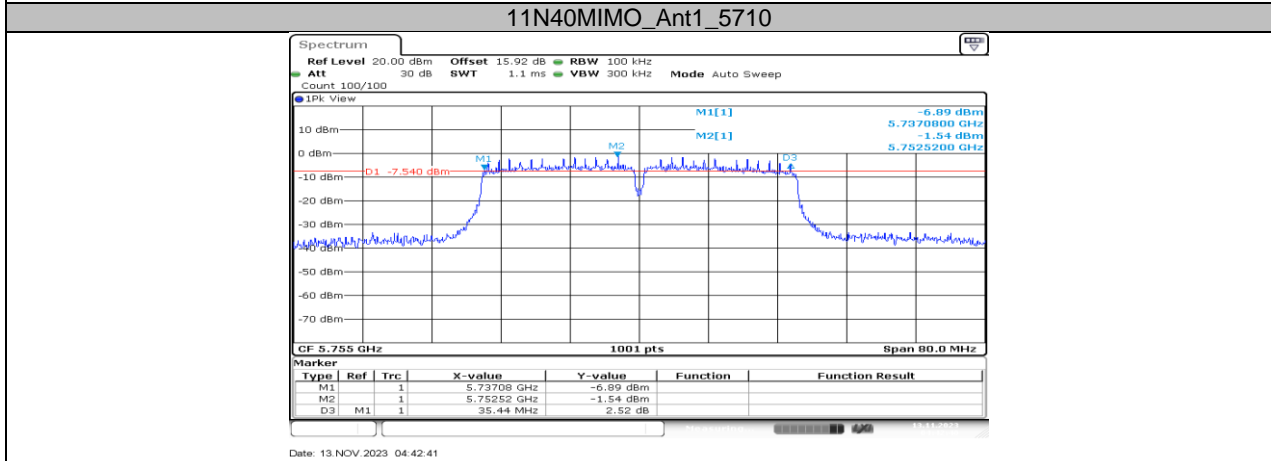
Date: 13.NOV.2023 04:16:01



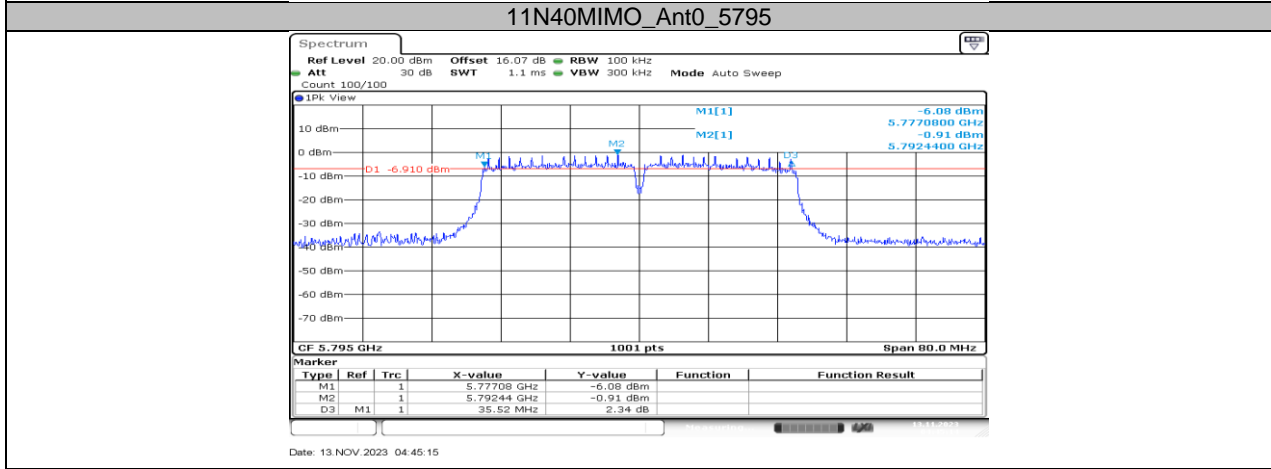
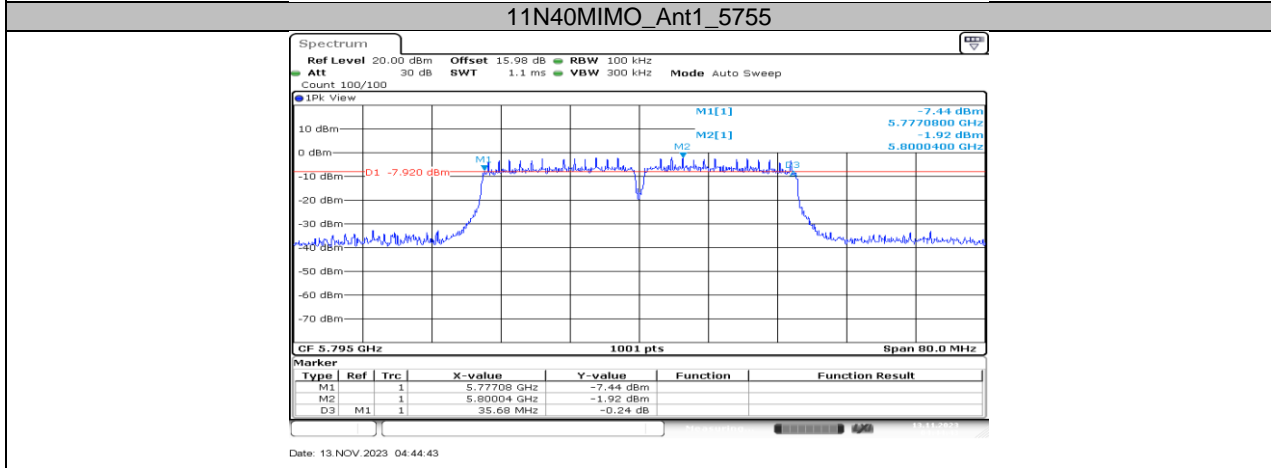
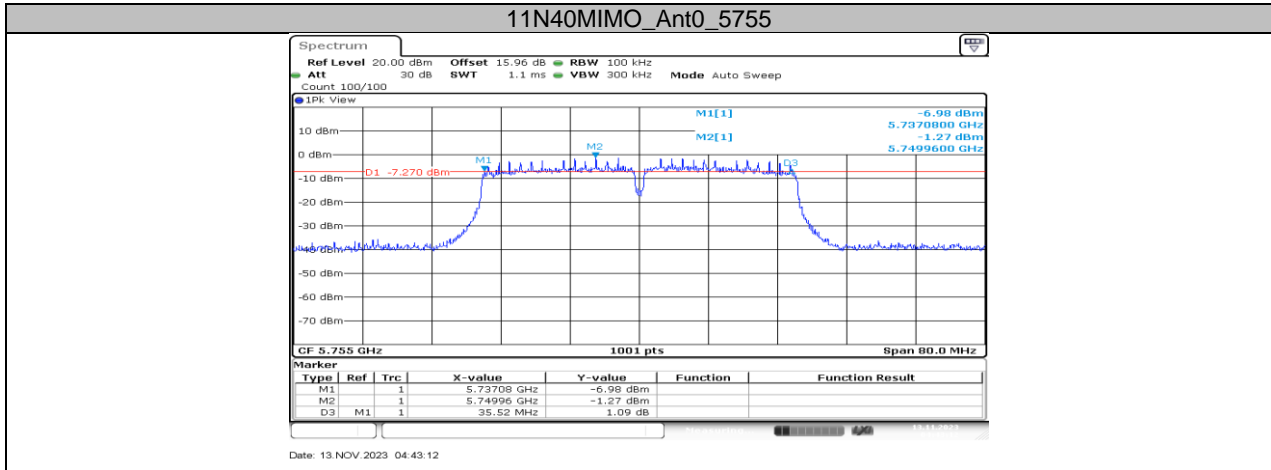
Date: 13.NOV.2023 04:39:38



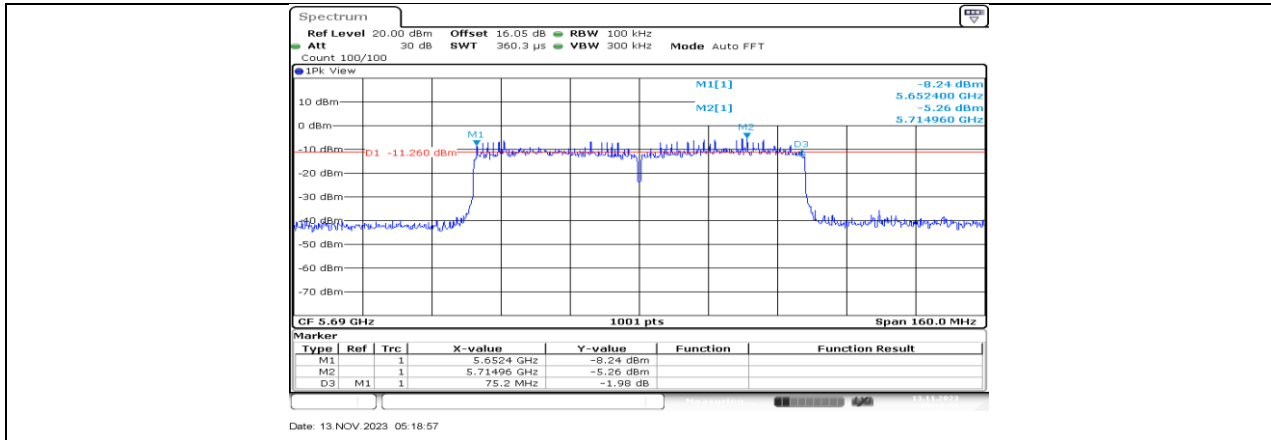
Date: 13.NOV.2023 04:40:39



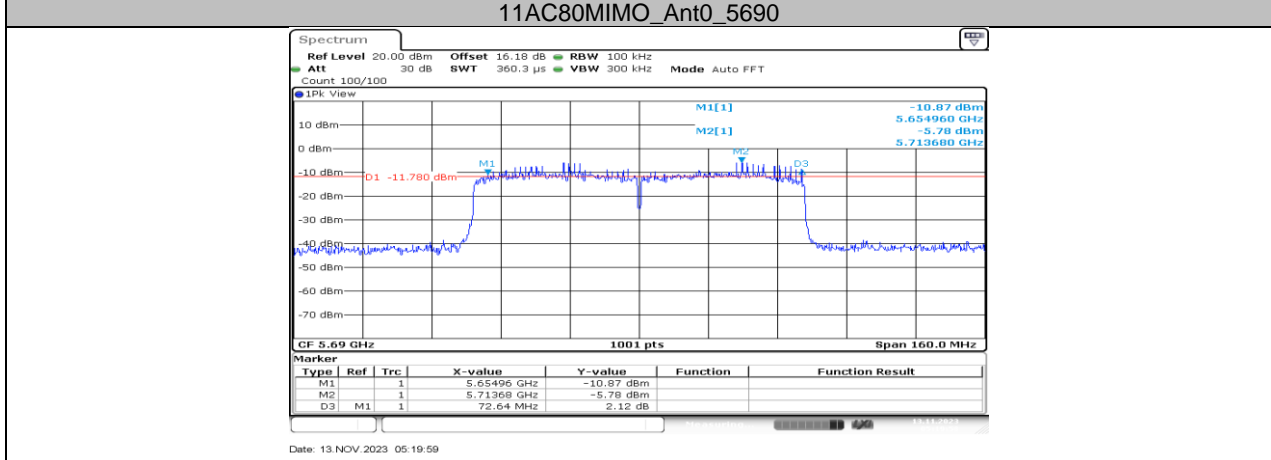
Date: 13.NOV.2023 04:42:41



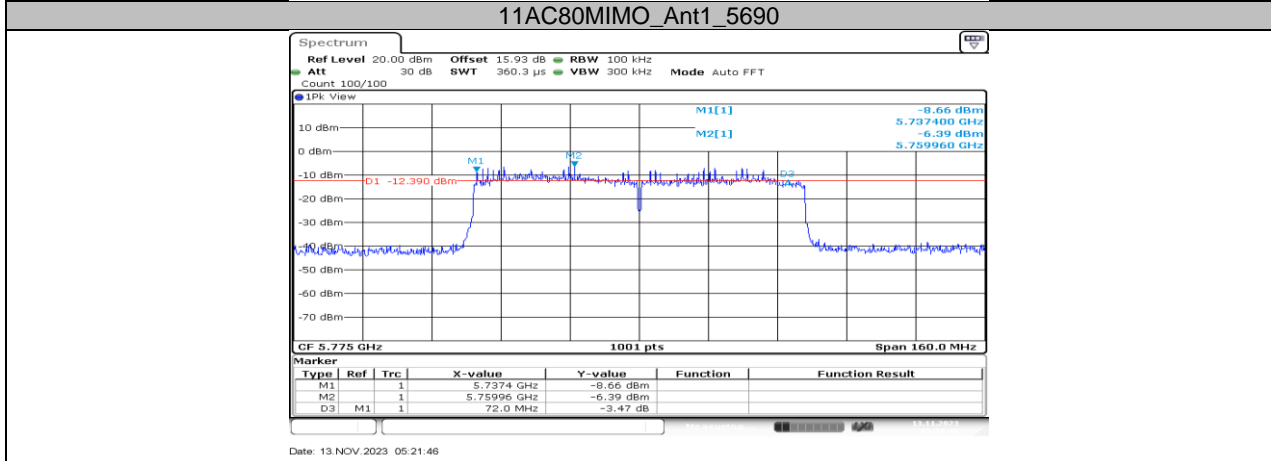
11N40MIMO_Ant1_5795



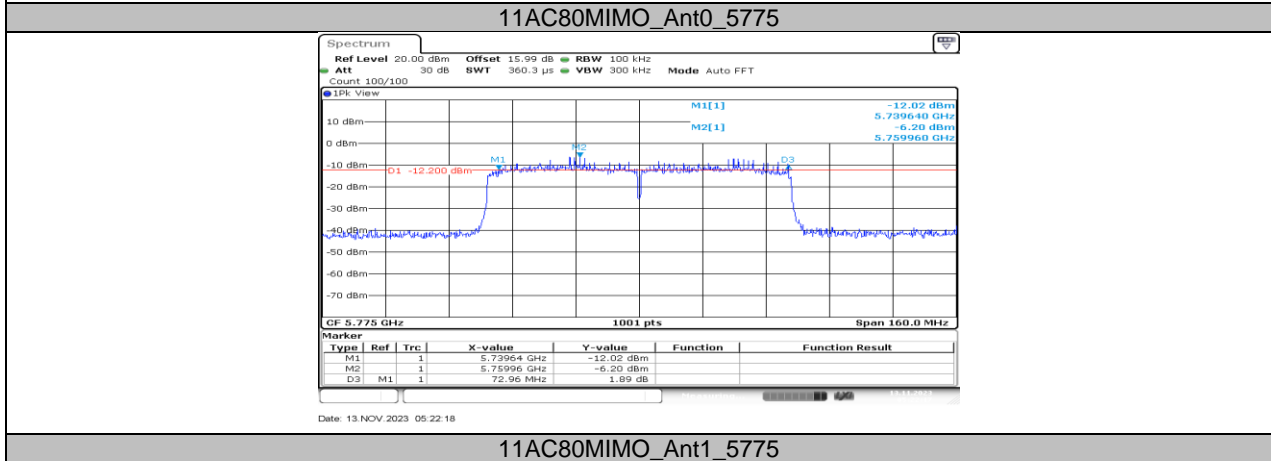
Date: 13.NOV.2023 05:18:57



Date: 13.NOV.2023 05:19:59



Date: 13.NOV.2023 05:21:48



Date: 13.NOV.2023 05:22:18

11.3.3. Appendix D: Maximum conducted output power

11.3.4. Test Result

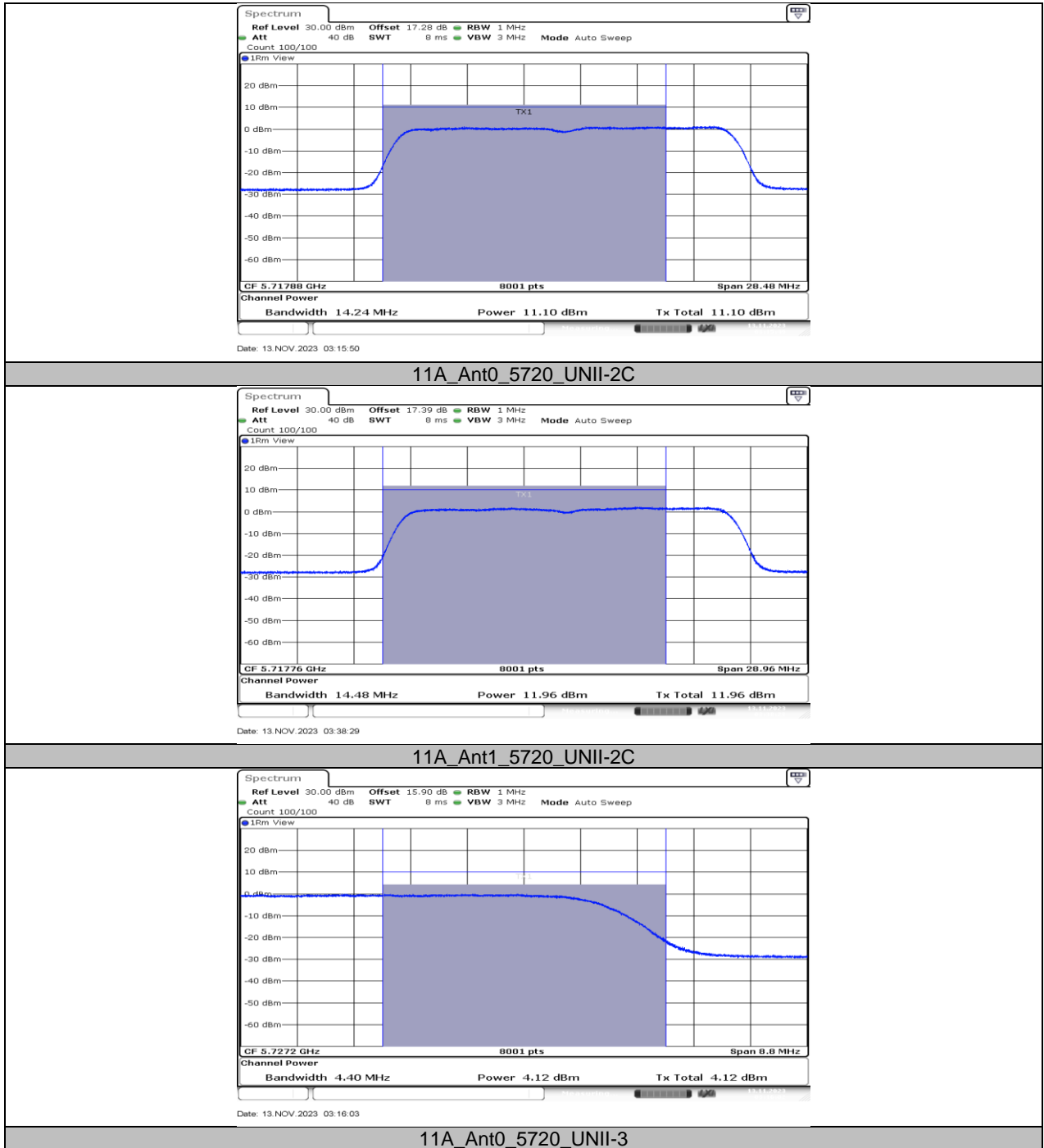
| Test Mode | Antenna | Frequency[MHz] | Power [dBm] | FCC Limit [dBm] | ISED Limit [dBm] | EIRP [dBm] | Limit [dBm] | Verdict | |
|-----------|-----------|----------------|-------------|-----------------|------------------|------------|-------------|---------|------|
| 11A | Ant0 | 5180 | 14.07 | ≤23.98 | --- | 15.57 | ≤20.72 | PASS | |
| | Ant1 | 5180 | 13.79 | ≤23.98 | --- | 17.32 | ≤18.70 | PASS | |
| | Ant0 | 5200 | 14.32 | ≤23.98 | --- | 15.82 | ≤20.73 | PASS | |
| | Ant1 | 5200 | 13.29 | ≤23.98 | --- | 16.82 | ≤18.70 | PASS | |
| | Ant0 | 5240 | 13.66 | ≤23.98 | --- | 15.16 | ≤20.72 | PASS | |
| | Ant1 | 5240 | 13.31 | ≤23.98 | --- | 16.84 | ≤18.70 | PASS | |
| | Ant0 | 5260 | 13.88 | ≤23.98 | ≤23.24 | 15.38 | ≤23.24 | PASS | |
| | Ant1 | 5260 | 14.21 | ≤23.98 | ≤23.22 | 17.74 | ≤23.22 | PASS | |
| | Ant0 | 5280 | 14.80 | ≤23.98 | ≤23.23 | 16.30 | ≤23.23 | PASS | |
| | Ant1 | 5280 | 13.46 | ≤23.98 | ≤23.22 | 16.99 | ≤23.22 | PASS | |
| | Ant0 | 5320 | 13.27 | ≤23.98 | ≤23.22 | 14.77 | ≤23.22 | PASS | |
| | Ant1 | 5320 | 13.64 | ≤23.98 | ≤23.23 | 17.17 | ≤23.23 | PASS | |
| | Ant0 | 5500 | 14.07 | ≤23.98 | ≤23.23 | 15.57 | ≤23.23 | PASS | |
| | Ant1 | 5500 | 14.50 | ≤23.98 | ≤23.23 | 18.03 | ≤23.23 | PASS | |
| | Ant0 | 5580 | 14.56 | ≤23.98 | ≤23.24 | 16.06 | ≤23.24 | PASS | |
| | Ant1 | 5580 | 13.53 | ≤23.98 | ≤23.24 | 17.06 | ≤23.24 | PASS | |
| | Ant0 | 5700 | 13.73 | ≤23.98 | ≤23.23 | 15.23 | ≤23.23 | PASS | |
| | Ant1 | 5700 | 14.88 | ≤23.98 | ≤23.23 | 18.41 | ≤23.23 | PASS | |
| | Ant0 | 5720_UNII-2C | 11.10 | ≤22.54 | ≤22.24 | 12.60 | ≤22.24 | PASS | |
| | Ant1 | 5720_UNII-2C | 11.96 | ≤22.61 | ≤22.24 | 15.49 | ≤22.24 | PASS | |
| | Ant0 | 5720_UNII-3 | 4.12 | ≤30.00 | ≤30.00 | 5.62 | --- | PASS | |
| | Ant1 | 5720_UNII-3 | 4.99 | ≤30.00 | ≤30.00 | 8.52 | --- | PASS | |
| | Ant0 | 5745 | 13.98 | ≤30.00 | ≤30.00 | 15.48 | --- | PASS | |
| | Ant1 | 5745 | 14.59 | ≤30.00 | ≤30.00 | 18.12 | --- | PASS | |
| | Ant0 | 5785 | 13.56 | ≤30.00 | ≤30.00 | 15.06 | --- | PASS | |
| | Ant1 | 5785 | 14.45 | ≤30.00 | ≤30.00 | 17.98 | --- | PASS | |
| | Ant0 | 5825 | 13.37 | ≤30.00 | ≤30.00 | 14.87 | --- | PASS | |
| | Ant1 | 5825 | 13.73 | ≤30.00 | ≤30.00 | 17.26 | --- | PASS | |
| | 11N20MIMO | Ant0 | 5180 | 12.50 | ≤23.98 | --- | 16.03 | ≤21.00 | PASS |
| | | Ant1 | 5180 | 13.50 | ≤23.98 | --- | 17.03 | ≤18.98 | PASS |
| total | | 5180 | 16.04 | ≤23.98 | --- | 19.57 | ≤18.97 | PASS | |
| Ant0 | | 5200 | 12.28 | ≤23.98 | --- | 15.81 | ≤21.01 | PASS | |
| Ant1 | | 5200 | 12.96 | ≤23.98 | --- | 16.49 | ≤18.97 | PASS | |
| total | | 5200 | 15.64 | ≤23.98 | --- | 19.17 | ≤18.97 | PASS | |
| Ant0 | | 5240 | 12.29 | ≤23.98 | --- | 15.82 | ≤21.00 | PASS | |
| Ant1 | | 5240 | 12.94 | ≤23.98 | --- | 16.47 | ≤18.97 | PASS | |
| total | | 5240 | 15.64 | ≤23.98 | --- | 19.17 | ≤18.97 | PASS | |
| Ant0 | | 5260 | 13.81 | ≤23.98 | ≤23.50 | 17.34 | ≤23.50 | PASS | |
| Ant1 | | 5260 | 14.47 | ≤23.98 | ≤23.46 | 18.00 | ≤23.46 | PASS | |
| total | | 5260 | 17.16 | ≤23.98 | ≤23.46 | 20.69 | ≤23.46 | PASS | |
| Ant0 | | 5280 | 14.47 | ≤23.98 | ≤23.51 | 18.00 | ≤23.51 | PASS | |
| Ant1 | | 5280 | 15.04 | ≤23.98 | ≤23.46 | 18.57 | ≤23.46 | PASS | |
| total | | 5280 | 17.77 | ≤23.98 | ≤23.46 | 21.30 | ≤23.46 | PASS | |
| Ant0 | | 5320 | 13.62 | ≤23.98 | ≤23.51 | 17.15 | ≤23.51 | PASS | |
| Ant1 | | 5320 | 13.26 | ≤23.98 | ≤23.46 | 16.79 | ≤23.46 | PASS | |
| total | | 5320 | 16.45 | ≤23.98 | ≤23.46 | 19.98 | ≤23.46 | PASS | |
| Ant0 | | 5500 | 14.26 | ≤23.98 | ≤23.51 | 17.79 | ≤23.51 | PASS | |
| Ant1 | | 5500 | 13.87 | ≤23.98 | ≤23.46 | 17.40 | ≤23.46 | PASS | |
| total | | 5500 | 17.08 | ≤23.98 | ≤23.46 | 20.61 | ≤23.46 | PASS | |
| Ant0 | | 5580 | 14.71 | ≤23.98 | ≤23.54 | 18.24 | ≤23.54 | PASS | |
| Ant1 | | 5580 | 13.94 | ≤23.98 | ≤23.46 | 17.47 | ≤23.46 | PASS | |
| total | | 5580 | 17.35 | ≤23.98 | ≤23.46 | 20.88 | ≤23.46 | PASS | |
| Ant0 | | 5700 | 14.33 | ≤23.98 | ≤23.52 | 17.86 | ≤23.52 | PASS | |
| Ant1 | | 5700 | 15.29 | ≤23.98 | ≤23.46 | 18.82 | ≤23.46 | PASS | |
| total | | 5700 | 17.85 | ≤23.98 | ≤23.46 | 21.38 | ≤23.46 | PASS | |
| Ant0 | | 5720_UNII-2C | 11.27 | ≤22.68 | ≤22.43 | 14.80 | ≤22.43 | PASS | |
| Ant1 | | 5720_UNII-2C | 12.11 | ≤22.70 | ≤22.43 | 15.64 | ≤22.43 | PASS | |

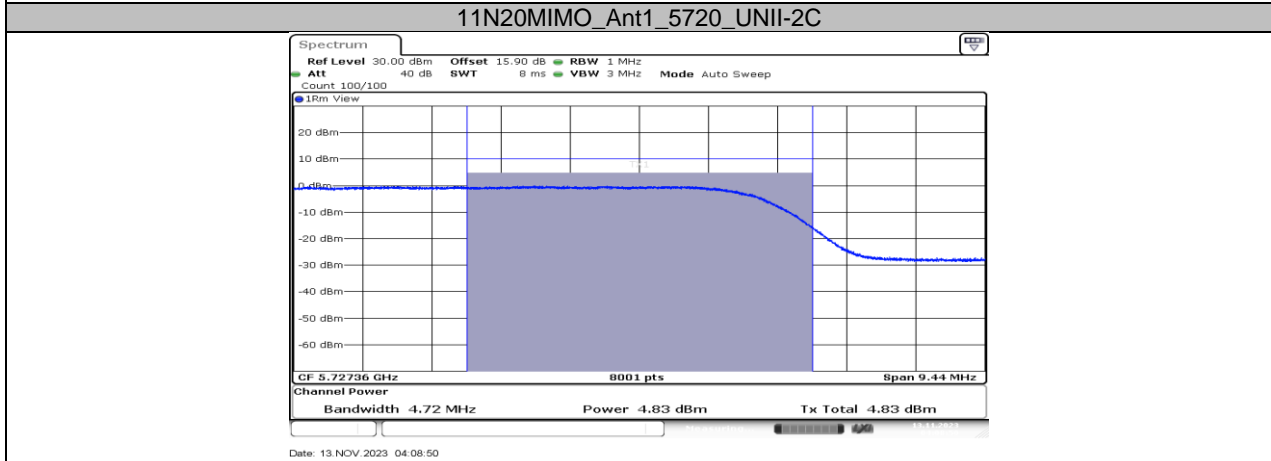
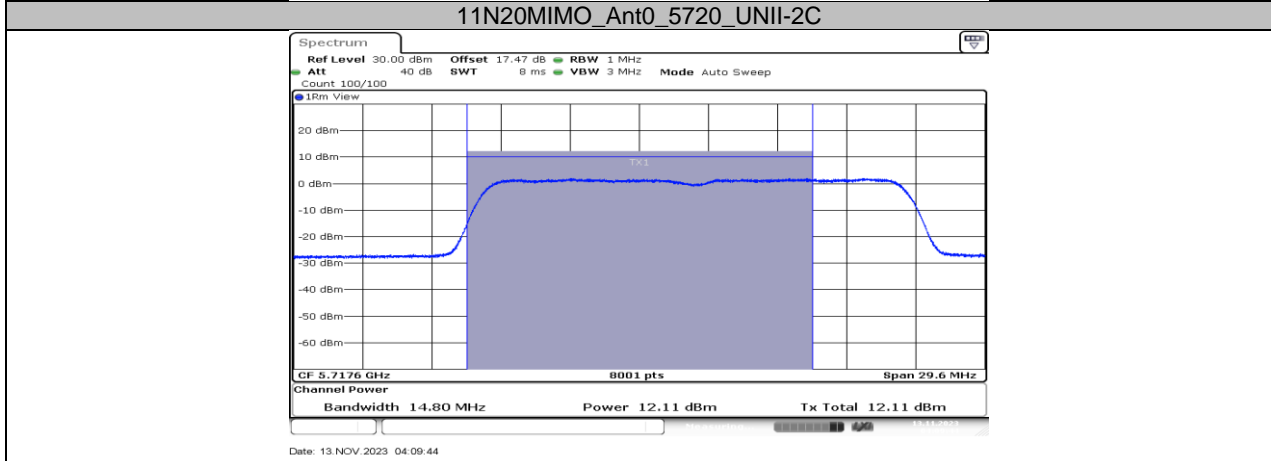
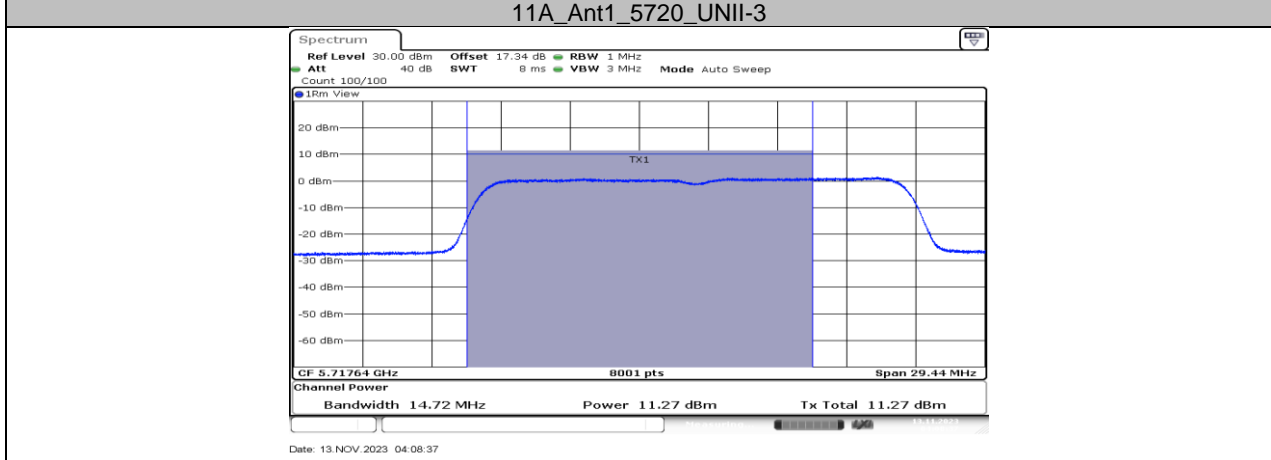
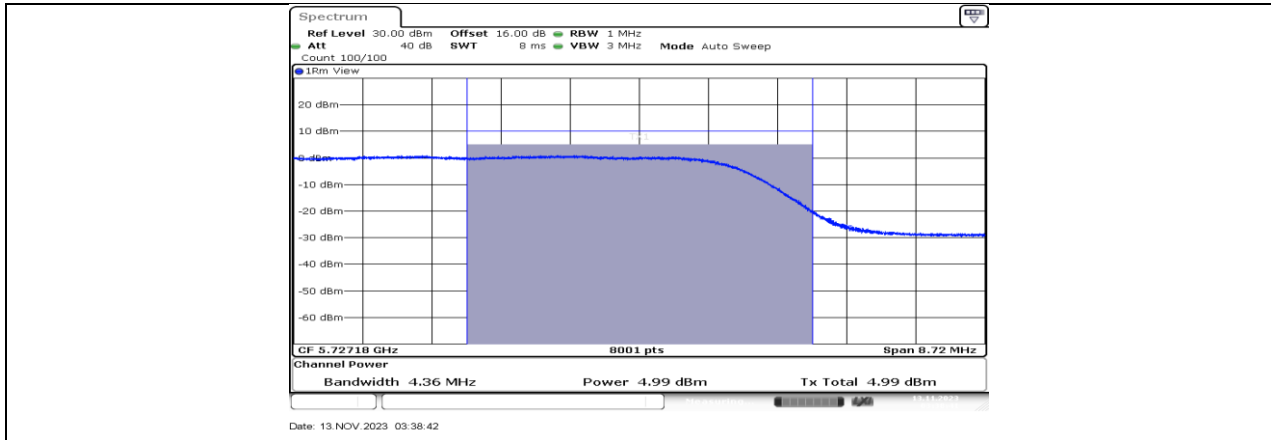
| | | | | | | | | |
|------------|-------------|--------------|--------|--------|--------|-------|--------|------|
| | total | 5720_UNII-2C | 14.72 | ≤23.98 | ≤22.43 | 18.25 | ≤22.43 | PASS |
| | Ant0 | 5720_UNII-3 | 4.83 | ≤30.00 | ≤30.00 | 8.36 | --- | PASS |
| | Ant1 | 5720_UNII-3 | 5.38 | ≤30.00 | ≤30.00 | 8.91 | --- | PASS |
| | total | 5720_UNII-3 | 8.12 | ≤30.00 | ≤30.00 | 11.65 | --- | PASS |
| | Ant0 | 5745 | 14.78 | ≤30.00 | ≤30.00 | 18.31 | --- | PASS |
| | Ant1 | 5745 | 14.49 | ≤30.00 | ≤30.00 | 18.02 | --- | PASS |
| | total | 5745 | 17.65 | ≤30.00 | ≤30.00 | 21.18 | --- | PASS |
| | Ant0 | 5785 | 14.06 | ≤30.00 | ≤30.00 | 17.59 | --- | PASS |
| | Ant1 | 5785 | 14.79 | ≤30.00 | ≤30.00 | 18.32 | --- | PASS |
| | total | 5785 | 17.45 | ≤30.00 | ≤30.00 | 20.98 | --- | PASS |
| | Ant0 | 5825 | 13.90 | ≤30.00 | ≤30.00 | 17.43 | --- | PASS |
| | Ant1 | 5825 | 14.42 | ≤30.00 | ≤30.00 | 17.95 | --- | PASS |
| | total | 5825 | 17.18 | ≤30.00 | ≤30.00 | 20.71 | --- | PASS |
| 11N40MIMO | Ant0 | 5190 | 14.30 | ≤23.98 | --- | 17.83 | ≤23.00 | PASS |
| | Ant1 | 5190 | 14.44 | ≤23.98 | --- | 17.97 | ≤23.00 | PASS |
| | total | 5190 | 17.38 | ≤23.98 | --- | 20.91 | ≤23.00 | PASS |
| | Ant0 | 5230 | 13.20 | ≤23.98 | --- | 16.73 | ≤23.00 | PASS |
| | Ant1 | 5230 | 13.31 | ≤23.98 | --- | 16.84 | ≤23.00 | PASS |
| | total | 5230 | 16.27 | ≤23.98 | --- | 19.80 | ≤23.00 | PASS |
| | Ant0 | 5270 | 11.86 | ≤23.98 | ≤23.98 | 15.39 | ≤30.00 | PASS |
| | Ant1 | 5270 | 12.28 | ≤23.98 | ≤23.98 | 15.81 | ≤30.00 | PASS |
| | total | 5270 | 15.09 | ≤23.98 | ≤23.98 | 18.62 | ≤30.00 | PASS |
| | Ant0 | 5310 | 12.24 | ≤23.98 | ≤23.98 | 15.77 | ≤30.00 | PASS |
| | Ant1 | 5310 | 11.67 | ≤23.98 | ≤23.98 | 15.20 | ≤30.00 | PASS |
| | total | 5310 | 14.97 | ≤23.98 | ≤23.98 | 18.50 | ≤30.00 | PASS |
| | Ant0 | 5510 | 11.26 | ≤23.98 | ≤23.98 | 14.79 | ≤30.00 | PASS |
| | Ant1 | 5510 | 12.16 | ≤23.98 | ≤23.98 | 15.69 | ≤30.00 | PASS |
| | total | 5510 | 14.74 | ≤23.98 | ≤23.98 | 18.27 | ≤30.00 | PASS |
| | Ant0 | 5550 | 12.13 | ≤23.98 | ≤23.98 | 15.66 | ≤30.00 | PASS |
| | Ant1 | 5550 | 12.84 | ≤23.98 | ≤23.98 | 16.37 | ≤30.00 | PASS |
| | total | 5550 | 15.51 | ≤23.98 | ≤23.98 | 19.04 | ≤30.00 | PASS |
| | Ant0 | 5670 | 12.13 | ≤23.98 | ≤23.98 | 15.66 | ≤30.00 | PASS |
| | Ant1 | 5670 | 13.23 | ≤23.98 | ≤23.98 | 16.76 | ≤30.00 | PASS |
| | total | 5670 | 15.73 | ≤23.98 | ≤23.98 | 19.26 | ≤30.00 | PASS |
| | Ant0 | 5710_UNII-2C | 9.77 | ≤23.98 | ≤23.98 | 13.30 | ≤30.00 | PASS |
| | Ant1 | 5710_UNII-2C | 11.73 | ≤23.98 | ≤23.98 | 15.26 | ≤30.00 | PASS |
| | total | 5710_UNII-2C | 13.87 | ≤23.98 | ≤23.98 | 17.40 | ≤30.00 | PASS |
| | Ant0 | 5710_UNII-3 | -3.44 | ≤30.00 | ≤30.00 | 0.09 | --- | PASS |
| | Ant1 | 5710_UNII-3 | -2.13 | ≤30.00 | ≤30.00 | 1.40 | --- | PASS |
| | total | 5710_UNII-3 | 0.27 | ≤30.00 | ≤30.00 | 3.80 | --- | PASS |
| | Ant0 | 5755 | 14.53 | ≤30.00 | ≤30.00 | 18.06 | --- | PASS |
| | Ant1 | 5755 | 14.73 | ≤30.00 | ≤30.00 | 18.26 | --- | PASS |
| | total | 5755 | 17.64 | ≤30.00 | ≤30.00 | 21.17 | --- | PASS |
| | Ant0 | 5795 | 13.71 | ≤30.00 | ≤30.00 | 17.24 | --- | PASS |
| | Ant1 | 5795 | 14.86 | ≤30.00 | ≤30.00 | 18.39 | --- | PASS |
| total | 5795 | 17.33 | ≤30.00 | ≤30.00 | 20.86 | --- | PASS | |
| 11AC80MIMO | Ant0 | 5210 | 13.35 | ≤23.98 | --- | 16.88 | ≤23.00 | PASS |
| | Ant1 | 5210 | 13.84 | ≤23.98 | --- | 17.37 | ≤23.00 | PASS |
| | total | 5210 | 16.61 | ≤23.98 | --- | 20.14 | ≤23.00 | PASS |
| | Ant0 | 5290 | 12.85 | ≤23.98 | ≤23.98 | 16.38 | ≤30.00 | PASS |
| | Ant1 | 5290 | 13.45 | ≤23.98 | ≤23.98 | 16.98 | ≤30.00 | PASS |
| | total | 5290 | 16.17 | ≤23.98 | ≤23.98 | 19.70 | ≤30.00 | PASS |
| | Ant0 | 5530 | 10.09 | ≤23.98 | ≤23.98 | 13.62 | ≤30.00 | PASS |
| | Ant1 | 5530 | 9.38 | ≤23.98 | ≤23.98 | 12.91 | ≤30.00 | PASS |
| | total | 5530 | 12.76 | ≤23.98 | ≤23.98 | 16.29 | ≤30.00 | PASS |
| | Ant0 | 5610 | 10.46 | ≤23.98 | ≤23.98 | 13.99 | ≤30.00 | PASS |
| | Ant1 | 5610 | 11.02 | ≤23.98 | ≤23.98 | 14.55 | ≤30.00 | PASS |
| | total | 5610 | 13.76 | ≤23.98 | ≤23.98 | 17.29 | ≤30.00 | PASS |
| | Ant0 | 5690_UNII-2C | 9.29 | ≤23.98 | ≤23.98 | 12.82 | ≤30.00 | PASS |
| | Ant1 | 5690_UNII-2C | 9.22 | ≤23.98 | ≤23.98 | 12.75 | ≤30.00 | PASS |
| | total | 5690_UNII-2C | 12.27 | ≤23.98 | ≤23.98 | 15.80 | ≤30.00 | PASS |
| | Ant0 | 5690_UNII-3 | -9.57 | ≤30.00 | ≤30.00 | -6.04 | --- | PASS |
| | Ant1 | 5690_UNII-3 | -9.87 | ≤30.00 | ≤30.00 | -6.34 | --- | PASS |
| total | 5690_UNII-3 | -6.71 | ≤30.00 | ≤30.00 | -3.18 | --- | PASS | |

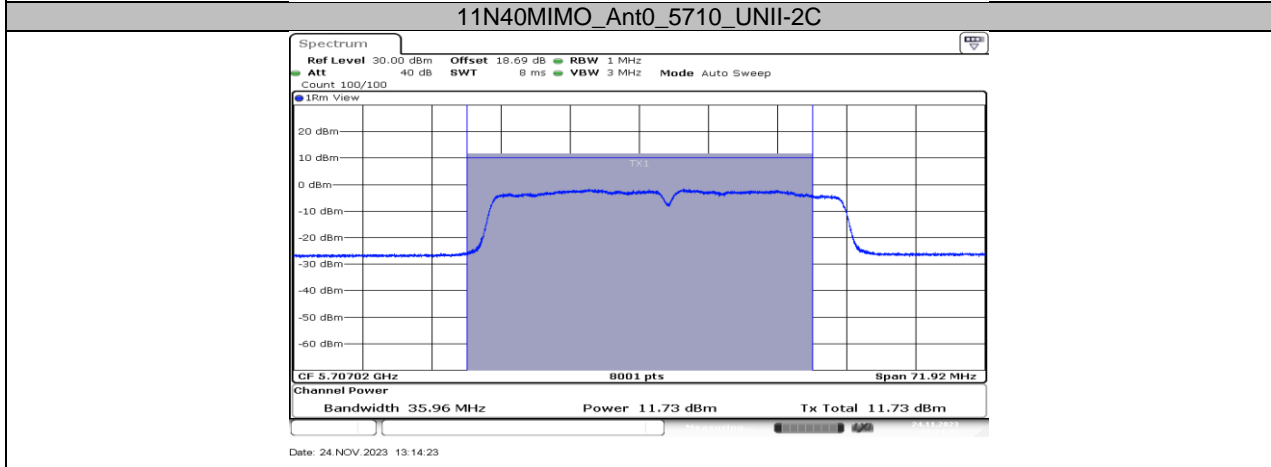
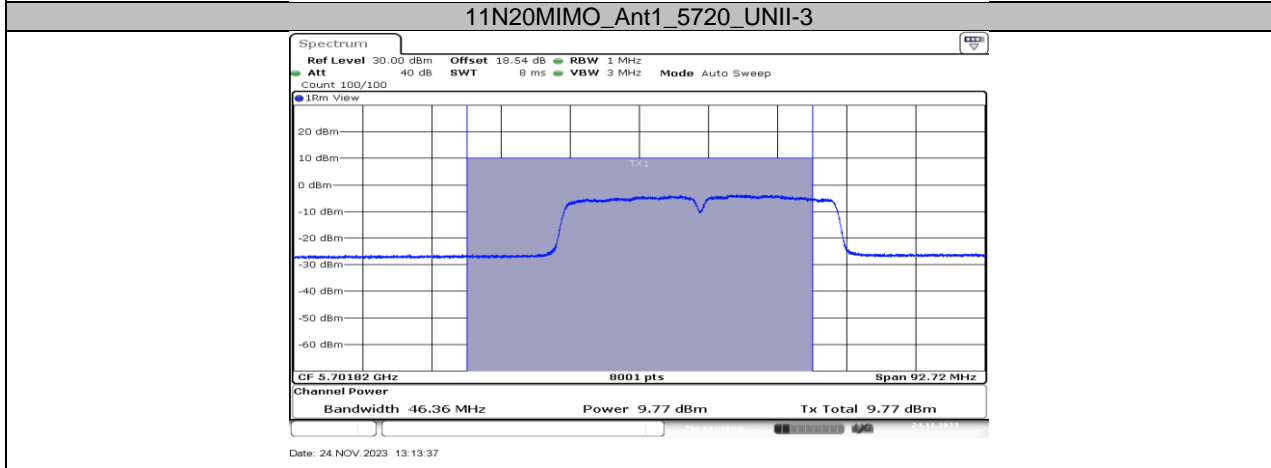
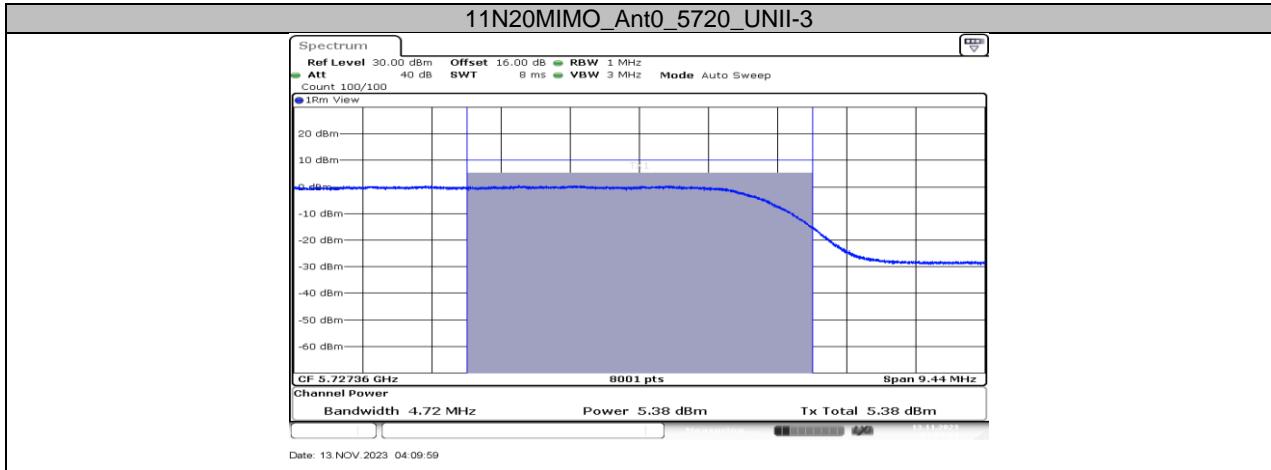
| | | | | | | | | |
|--|-------|------|-------|--------|--------|-------|-----|------|
| | Ant0 | 5775 | 12.88 | ≤30.00 | ≤30.00 | 16.41 | --- | PASS |
| | Ant1 | 5775 | 12.82 | ≤30.00 | ≤30.00 | 16.35 | --- | PASS |
| | total | 5775 | 15.86 | ≤30.00 | ≤30.00 | 19.39 | --- | PASS |

Note: The Duty Cycle Factor is compensated in the graph.

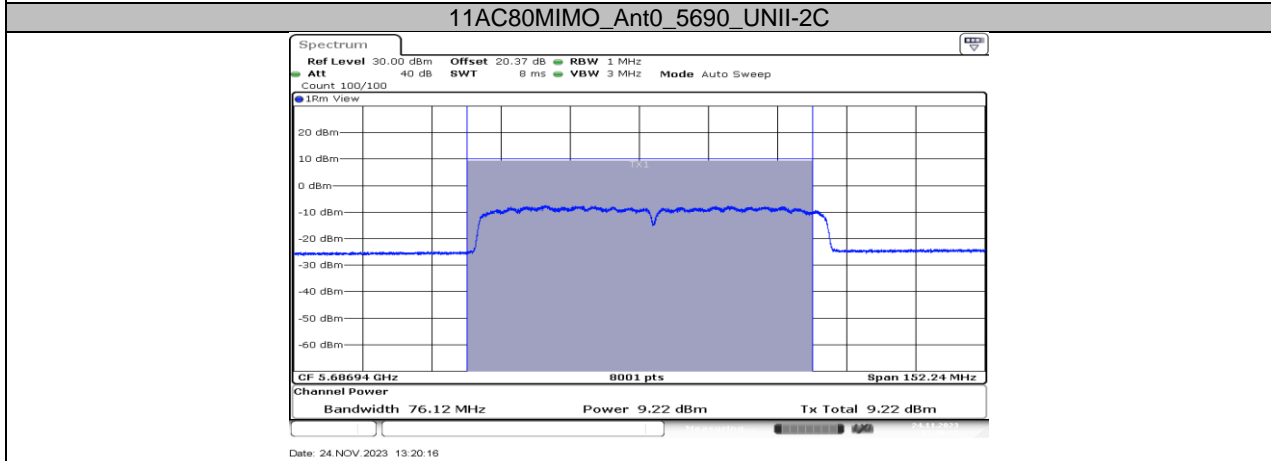
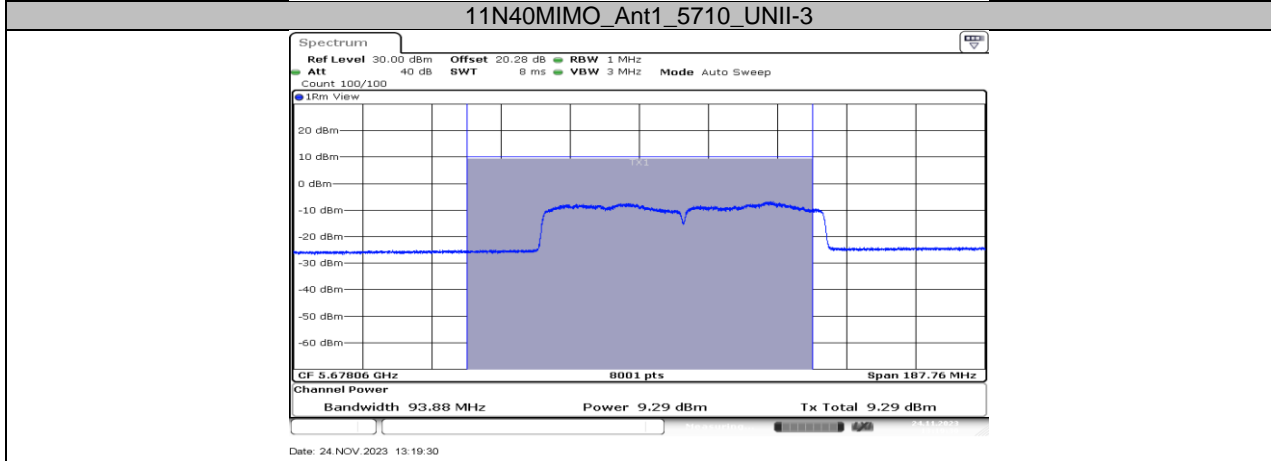
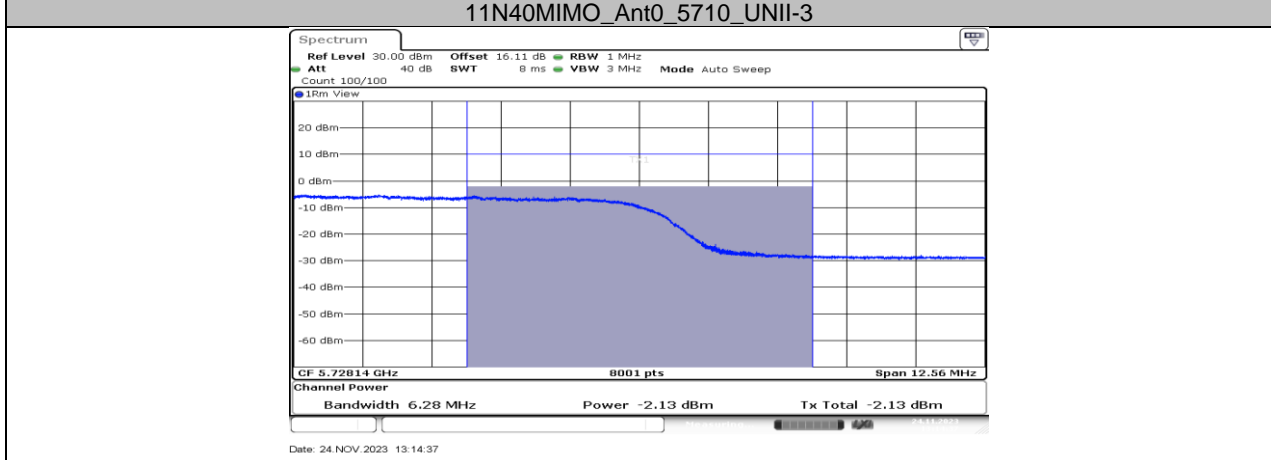
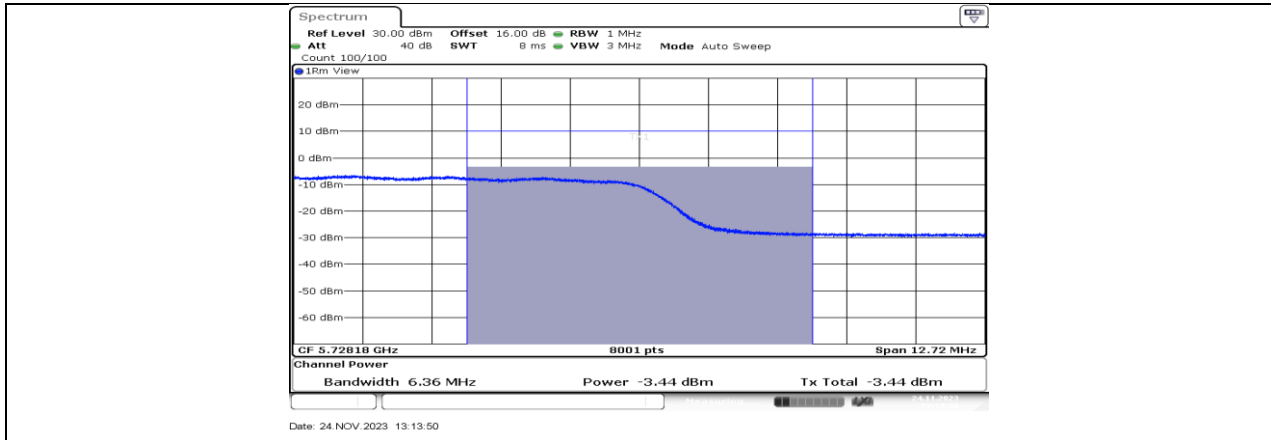
11.3.5. Test Graphs

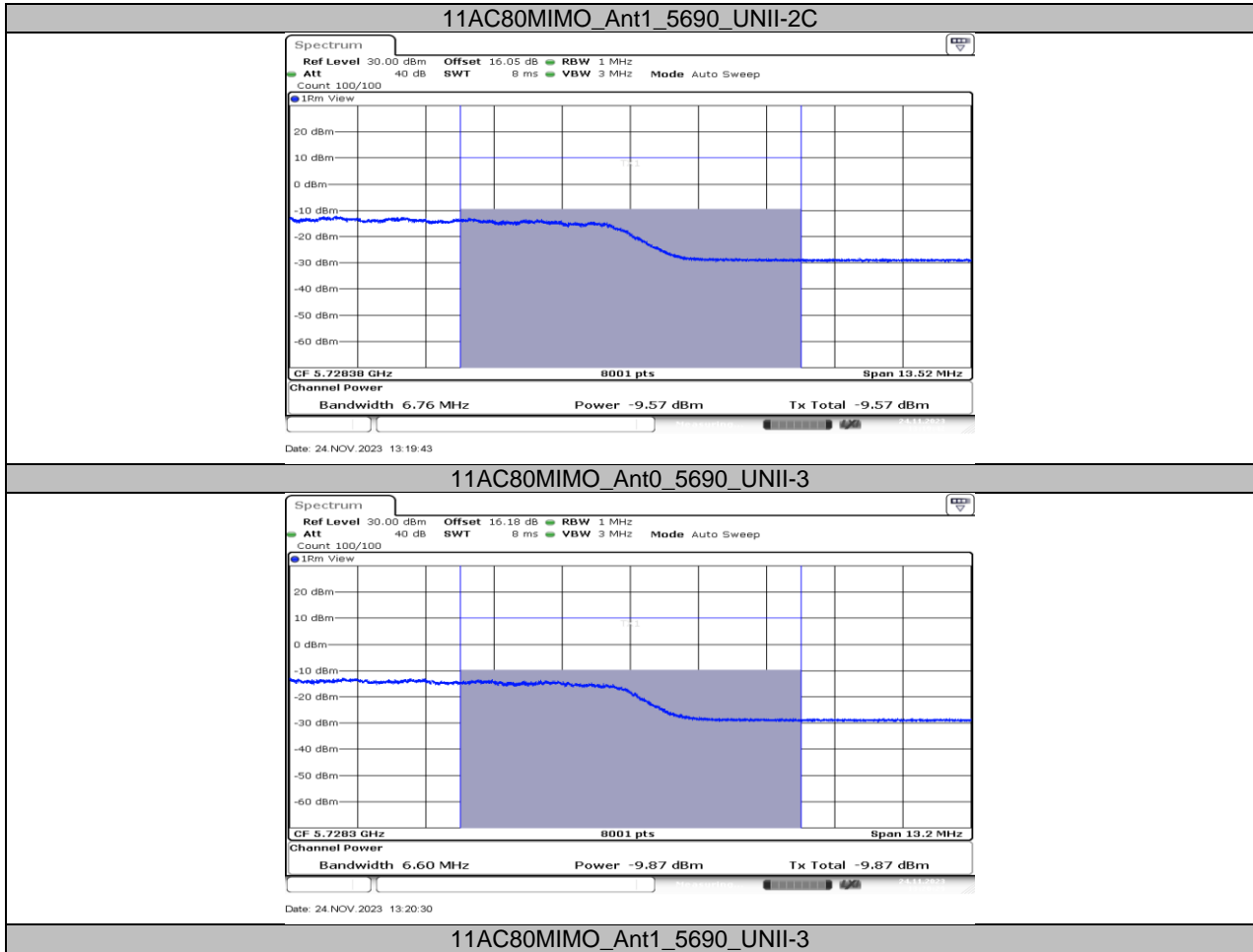






11N40MIMO_Ant1_5710_UNII-2C





11.4. APPENDIX E: MAXIMUM POWER SPECTRAL DENSITY

11.4.1. Test Result

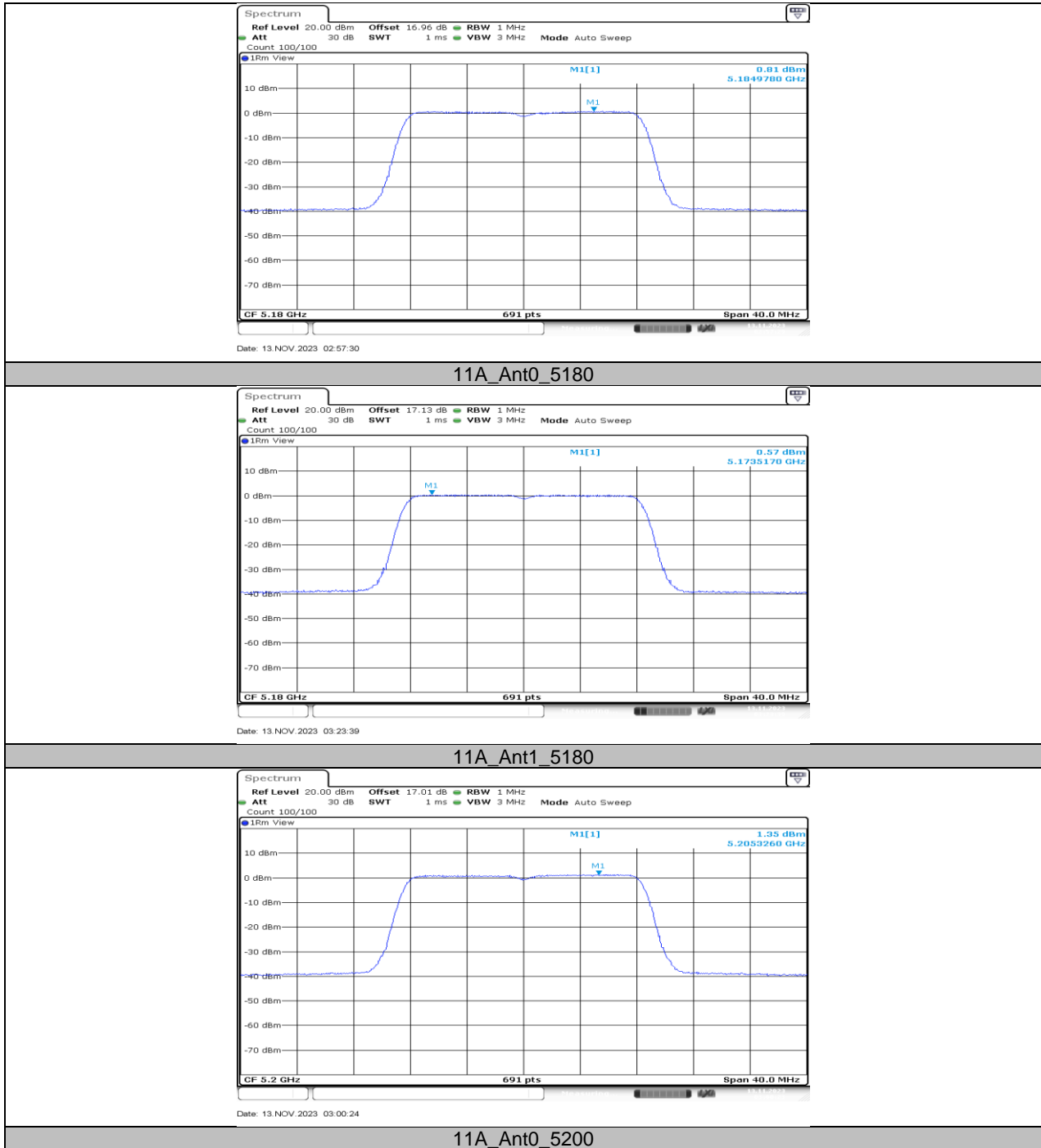
| Test Mode | Antenna | Frequency[MHz] | Power [dBm/MHz] | Limit [dBm/MHz] | EIRP [dBm/MHz] | Limit [dBm/MHz] | Verdict |
|-----------|---------|----------------|-----------------|-----------------|----------------|-----------------|---------|
| 11A | Ant0 | 5180 | 0.81 | ≤11.00 | 2.31 | ≤10.00 | PASS |
| | Ant1 | 5180 | 0.57 | ≤11.00 | 4.10 | ≤10.00 | PASS |
| | Ant0 | 5200 | 1.35 | ≤11.00 | 2.85 | ≤10.00 | PASS |
| | Ant1 | 5200 | 0.42 | ≤11.00 | 3.95 | ≤10.00 | PASS |
| | Ant0 | 5240 | 0.81 | ≤11.00 | 2.31 | ≤10.00 | PASS |
| | Ant1 | 5240 | -0.40 | ≤11.00 | 3.13 | ≤10.00 | PASS |
| | Ant0 | 5260 | 0.63 | ≤11.00 | 2.13 | --- | PASS |
| | Ant1 | 5260 | 1.43 | ≤11.00 | 4.96 | --- | PASS |
| | Ant0 | 5280 | 1.65 | ≤11.00 | 3.15 | --- | PASS |
| | Ant1 | 5280 | 0.50 | ≤11.00 | 4.03 | --- | PASS |
| | Ant0 | 5320 | 0.54 | ≤11.00 | 2.04 | --- | PASS |
| | Ant1 | 5320 | 0.55 | ≤11.00 | 4.08 | --- | PASS |
| | Ant0 | 5500 | 1.23 | ≤11.00 | 2.73 | --- | PASS |
| | Ant1 | 5500 | 1.54 | ≤11.00 | 5.07 | --- | PASS |
| | Ant0 | 5580 | 1.36 | ≤11.00 | 2.86 | --- | PASS |
| | Ant1 | 5580 | 0.27 | ≤11.00 | 3.80 | --- | PASS |
| | Ant0 | 5700 | 0.95 | ≤11.00 | 2.45 | --- | PASS |
| | Ant1 | 5700 | 1.57 | ≤11.00 | 5.10 | --- | PASS |
| | Ant0 | 5720_UNII-2C | 0.88 | ≤11.00 | 2.38 | --- | PASS |
| | Ant1 | 5720_UNII-2C | 1.64 | ≤11.00 | 5.17 | --- | PASS |
| | Ant0 | 5720_UNII-3 | -1.82 | ≤30.00 | -0.32 | --- | PASS |
| | Ant1 | 5720_UNII-3 | -0.97 | ≤30.00 | 2.56 | --- | PASS |
| | Ant0 | 5745 | -2.48 | ≤30.00 | -0.98 | --- | PASS |
| | Ant1 | 5745 | -2.00 | ≤30.00 | 1.53 | --- | PASS |
| | Ant0 | 5785 | -2.46 | ≤30.00 | -0.96 | --- | PASS |
| | Ant1 | 5785 | -1.63 | ≤30.00 | 1.90 | --- | PASS |
| | Ant0 | 5825 | -2.47 | ≤30.00 | -0.97 | --- | PASS |
| | Ant1 | 5825 | -1.87 | ≤30.00 | 1.66 | --- | PASS |
| 11N20MIMO | Ant0 | 5180 | -0.91 | ≤11.00 | 2.62 | ≤10.00 | PASS |
| | Ant1 | 5180 | 0.10 | ≤11.00 | 3.63 | ≤10.00 | PASS |
| | total | 5180 | 2.63 | ≤11.00 | 9.17 | ≤10.00 | PASS |
| | Ant0 | 5200 | -0.86 | ≤11.00 | 2.67 | ≤10.00 | PASS |
| | Ant1 | 5200 | -0.66 | ≤11.00 | 2.87 | ≤10.00 | PASS |
| | total | 5200 | 2.25 | ≤11.00 | 8.79 | ≤10.00 | PASS |
| | Ant0 | 5240 | -1.00 | ≤11.00 | 2.53 | ≤10.00 | PASS |
| | Ant1 | 5240 | -0.75 | ≤11.00 | 2.78 | ≤10.00 | PASS |
| | total | 5240 | 2.14 | ≤11.00 | 8.68 | ≤10.00 | PASS |
| | Ant0 | 5260 | 0.51 | ≤11.00 | 4.04 | --- | PASS |
| | Ant1 | 5260 | 1.27 | ≤11.00 | 4.80 | --- | PASS |
| | total | 5260 | 3.92 | ≤11.00 | 10.46 | --- | PASS |
| | Ant0 | 5280 | 1.27 | ≤11.00 | 4.80 | --- | PASS |
| | Ant1 | 5280 | 1.87 | ≤11.00 | 5.40 | --- | PASS |
| | total | 5280 | 4.59 | ≤11.00 | 11.13 | --- | PASS |
| | Ant0 | 5320 | 0.20 | ≤11.00 | 3.73 | --- | PASS |
| | Ant1 | 5320 | 0.31 | ≤11.00 | 3.84 | --- | PASS |
| | total | 5320 | 3.27 | ≤11.00 | 9.81 | --- | PASS |
| | Ant0 | 5500 | 1.09 | ≤11.00 | 4.62 | --- | PASS |
| | Ant1 | 5500 | 0.50 | ≤11.00 | 4.03 | --- | PASS |
| | total | 5500 | 3.82 | ≤11.00 | 10.36 | --- | PASS |
| | Ant0 | 5580 | 0.97 | ≤11.00 | 4.50 | --- | PASS |
| | Ant1 | 5580 | 0.27 | ≤11.00 | 3.80 | --- | PASS |
| | total | 5580 | 3.64 | ≤11.00 | 10.18 | --- | PASS |
| | Ant0 | 5700 | 1.17 | ≤11.00 | 4.70 | --- | PASS |
| | Ant1 | 5700 | 1.76 | ≤11.00 | 5.29 | --- | PASS |
| | total | 5700 | 4.49 | ≤11.00 | 11.03 | --- | PASS |
| | Ant0 | 5720_UNII-2C | 0.77 | ≤11.00 | 4.30 | --- | PASS |
| | Ant1 | 5720_UNII-2C | 1.50 | ≤11.00 | 5.03 | --- | PASS |
| | total | 5720_UNII-2C | 4.16 | ≤11.00 | 10.70 | --- | PASS |

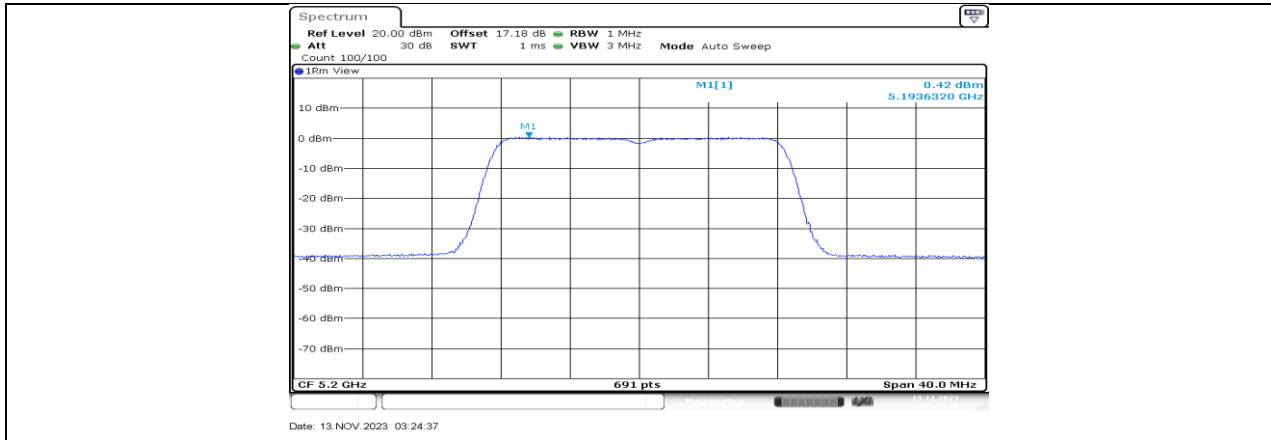
| | | | | | | | |
|------------|-------|--------------|--------|--------|-------|--------|------|
| | Ant0 | 5720_UNII-3 | -1.83 | ≤30.00 | 1.70 | --- | PASS |
| | Ant1 | 5720_UNII-3 | -1.27 | ≤30.00 | 2.26 | --- | PASS |
| | total | 5720_UNII-3 | 1.47 | ≤30.00 | 8.01 | --- | PASS |
| | Ant0 | 5745 | -2.20 | ≤30.00 | 1.33 | --- | PASS |
| | Ant1 | 5745 | -1.96 | ≤30.00 | 1.57 | --- | PASS |
| | total | 5745 | 0.93 | ≤30.00 | 7.47 | --- | PASS |
| | Ant0 | 5785 | -2.22 | ≤30.00 | 1.31 | --- | PASS |
| | Ant1 | 5785 | -1.60 | ≤30.00 | 1.93 | --- | PASS |
| | total | 5785 | 1.11 | ≤30.00 | 7.65 | --- | PASS |
| | Ant0 | 5825 | -2.34 | ≤30.00 | 1.19 | --- | PASS |
| | Ant1 | 5825 | -2.48 | ≤30.00 | 1.05 | --- | PASS |
| | total | 5825 | 0.60 | ≤30.00 | 7.14 | --- | PASS |
| 11N40MIMO | Ant0 | 5190 | -1.93 | ≤11.00 | 1.60 | ≤10.00 | PASS |
| | Ant1 | 5190 | -1.15 | ≤11.00 | 2.38 | ≤10.00 | PASS |
| | total | 5190 | 1.49 | ≤11.00 | 8.03 | ≤10.00 | PASS |
| | Ant0 | 5230 | -1.96 | ≤11.00 | 1.57 | ≤10.00 | PASS |
| | Ant1 | 5230 | -2.84 | ≤11.00 | 0.69 | ≤10.00 | PASS |
| | total | 5230 | 0.63 | ≤11.00 | 7.17 | ≤10.00 | PASS |
| | Ant0 | 5270 | -3.78 | ≤11.00 | -0.25 | --- | PASS |
| | Ant1 | 5270 | -2.89 | ≤11.00 | 0.64 | --- | PASS |
| | total | 5270 | -0.30 | ≤11.00 | 6.24 | --- | PASS |
| | Ant0 | 5310 | -3.08 | ≤11.00 | 0.45 | --- | PASS |
| | Ant1 | 5310 | -3.44 | ≤11.00 | 0.09 | --- | PASS |
| | total | 5310 | -0.25 | ≤11.00 | 6.29 | --- | PASS |
| | Ant0 | 5510 | -4.51 | ≤11.00 | -0.98 | --- | PASS |
| | Ant1 | 5510 | -3.62 | ≤11.00 | -0.09 | --- | PASS |
| | total | 5510 | -1.03 | ≤11.00 | 5.51 | --- | PASS |
| | Ant0 | 5550 | -3.37 | ≤11.00 | 0.16 | --- | PASS |
| | Ant1 | 5550 | -2.77 | ≤11.00 | 0.76 | --- | PASS |
| | total | 5550 | -0.05 | ≤11.00 | 6.49 | --- | PASS |
| | Ant0 | 5670 | -4.00 | ≤11.00 | -0.47 | --- | PASS |
| | Ant1 | 5670 | -2.31 | ≤11.00 | 1.22 | --- | PASS |
| | total | 5670 | -0.06 | ≤11.00 | 6.48 | --- | PASS |
| | Ant0 | 5710_UNII-2C | -4.01 | ≤11.00 | -0.48 | --- | PASS |
| | Ant1 | 5710_UNII-2C | -2.25 | ≤11.00 | 1.28 | --- | PASS |
| | total | 5710_UNII-2C | -0.03 | ≤11.00 | 6.51 | --- | PASS |
| | Ant0 | 5710_UNII-3 | -8.11 | ≤30.00 | -4.58 | --- | PASS |
| | Ant1 | 5710_UNII-3 | -6.91 | ≤30.00 | -3.38 | --- | PASS |
| | total | 5710_UNII-3 | -4.46 | ≤30.00 | 2.08 | --- | PASS |
| | Ant0 | 5755 | -4.74 | ≤30.00 | -1.21 | --- | PASS |
| | Ant1 | 5755 | -4.36 | ≤30.00 | -0.83 | --- | PASS |
| | total | 5755 | -1.54 | ≤30.00 | 5.00 | --- | PASS |
| | Ant0 | 5795 | -5.24 | ≤30.00 | -1.71 | --- | PASS |
| | Ant1 | 5795 | -3.96 | ≤30.00 | -0.43 | --- | PASS |
| total | 5795 | -1.54 | ≤30.00 | 5.00 | --- | PASS | |
| 11AC80MIMO | Ant0 | 5210 | -5.18 | ≤11.00 | -1.65 | ≤10.00 | PASS |
| | Ant1 | 5210 | -5.16 | ≤11.00 | -1.63 | ≤10.00 | PASS |
| | total | 5210 | -2.16 | ≤11.00 | 4.38 | ≤10.00 | PASS |
| | Ant0 | 5290 | -5.74 | ≤11.00 | -2.21 | --- | PASS |
| | Ant1 | 5290 | -5.23 | ≤11.00 | -1.70 | --- | PASS |
| | total | 5290 | -2.47 | ≤11.00 | 4.07 | --- | PASS |
| | Ant0 | 5530 | -8.30 | ≤11.00 | -4.77 | --- | PASS |
| | Ant1 | 5530 | -8.97 | ≤11.00 | -5.44 | --- | PASS |
| | total | 5530 | -5.61 | ≤11.00 | 0.93 | --- | PASS |
| | Ant0 | 5610 | -6.87 | ≤11.00 | -3.34 | --- | PASS |
| | Ant1 | 5610 | -7.01 | ≤11.00 | -3.48 | --- | PASS |
| | total | 5610 | -3.93 | ≤11.00 | 2.61 | --- | PASS |
| | Ant0 | 5690_UNII-2C | -7.76 | ≤11.00 | -4.23 | --- | PASS |
| | Ant1 | 5690_UNII-2C | -8.09 | ≤11.00 | -4.56 | --- | PASS |
| | total | 5690_UNII-2C | -4.91 | ≤11.00 | 1.63 | --- | PASS |
| | Ant0 | 5690_UNII-3 | -12.79 | ≤30.00 | -9.26 | --- | PASS |
| | Ant1 | 5690_UNII-3 | -12.53 | ≤30.00 | -9.00 | --- | PASS |
| | total | 5690_UNII-3 | -9.65 | ≤30.00 | -3.11 | --- | PASS |
| Ant0 | 5775 | -8.74 | ≤30.00 | -5.21 | --- | PASS | |

| | | | | | | | |
|--|-------|------|-------|--------|-------|-----|------|
| | Ant1 | 5775 | -9.12 | ≤30.00 | -5.59 | --- | PASS |
| | total | 5775 | -5.92 | ≤30.00 | 0.62 | --- | PASS |

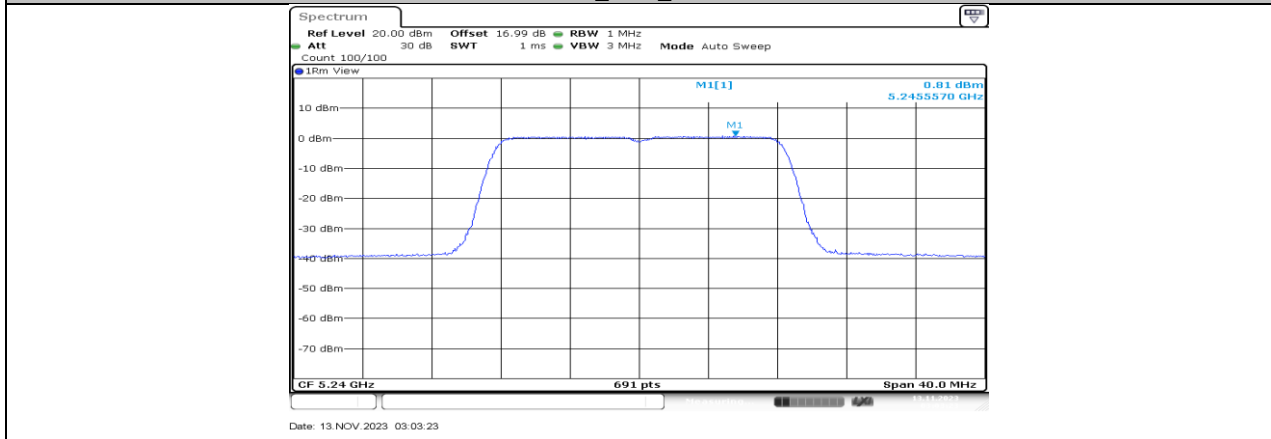
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

11.4.2. Test Graphs

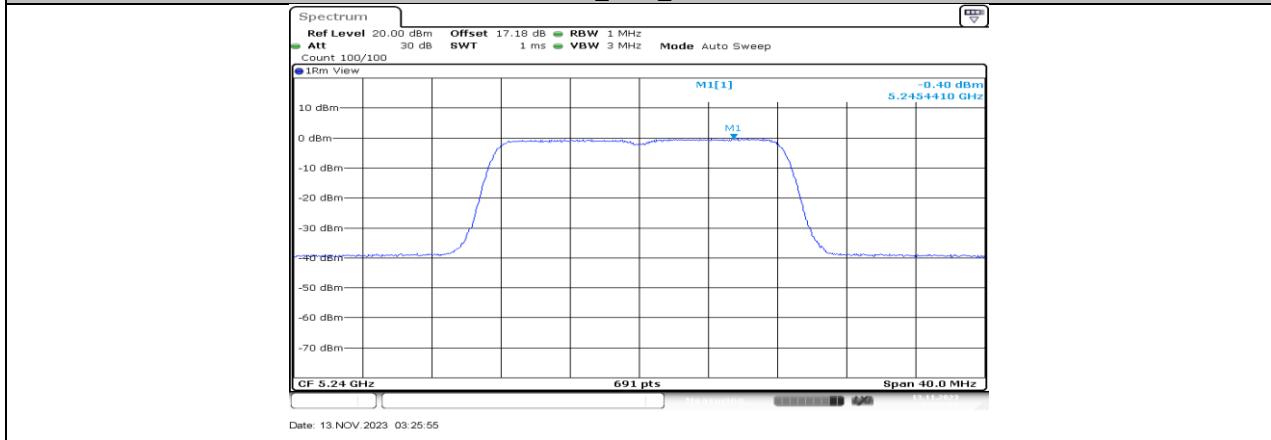




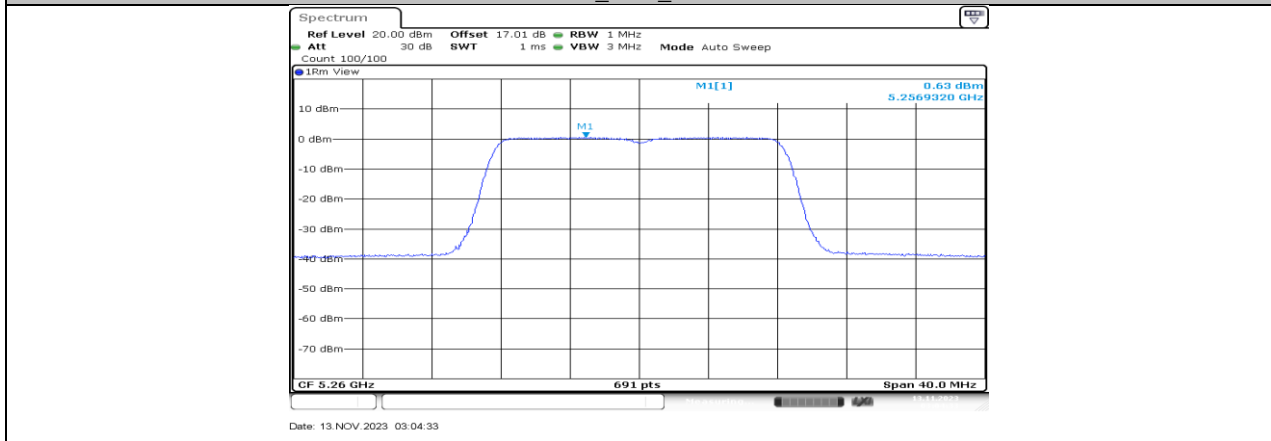
11A_Ant1_5200

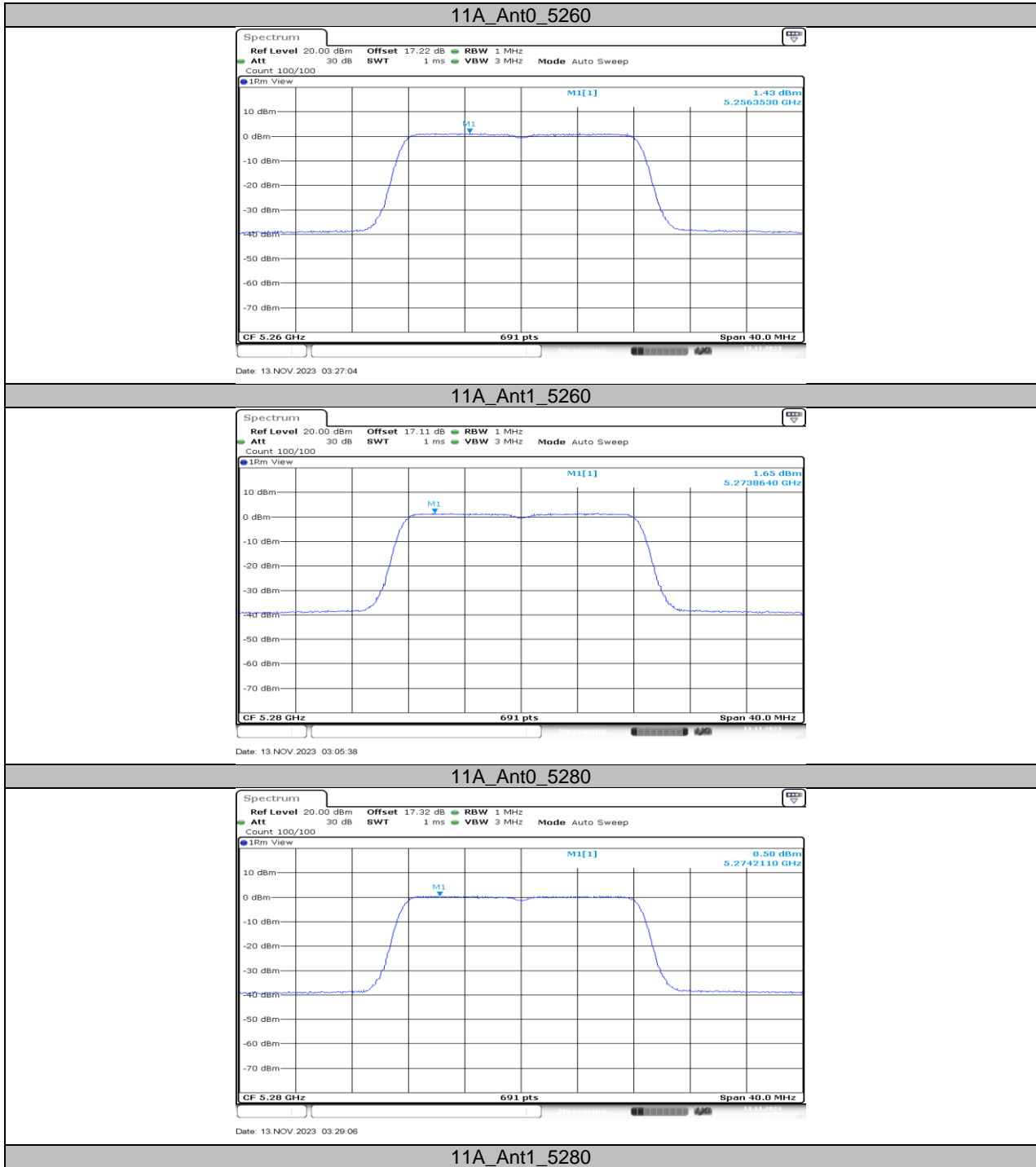


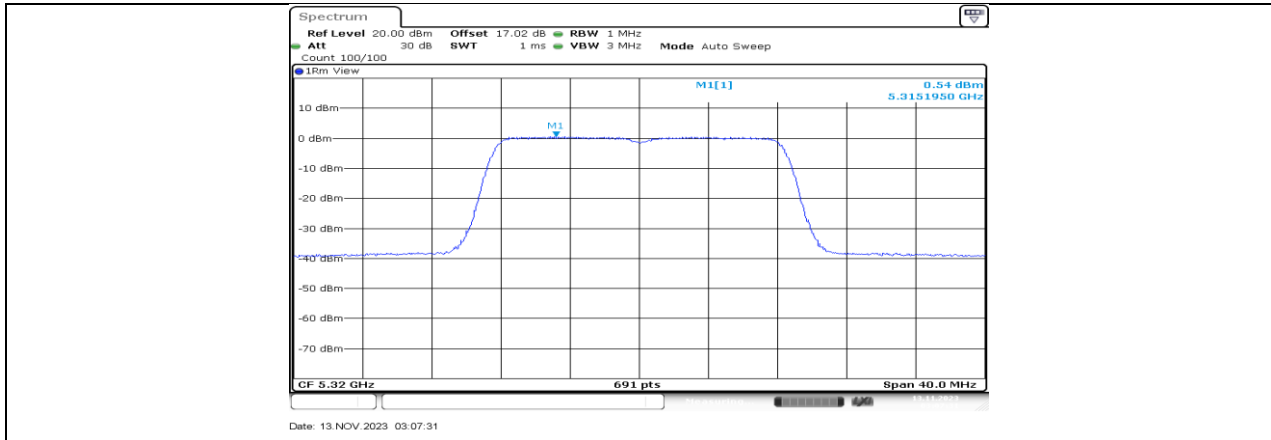
11A_Ant0_5240



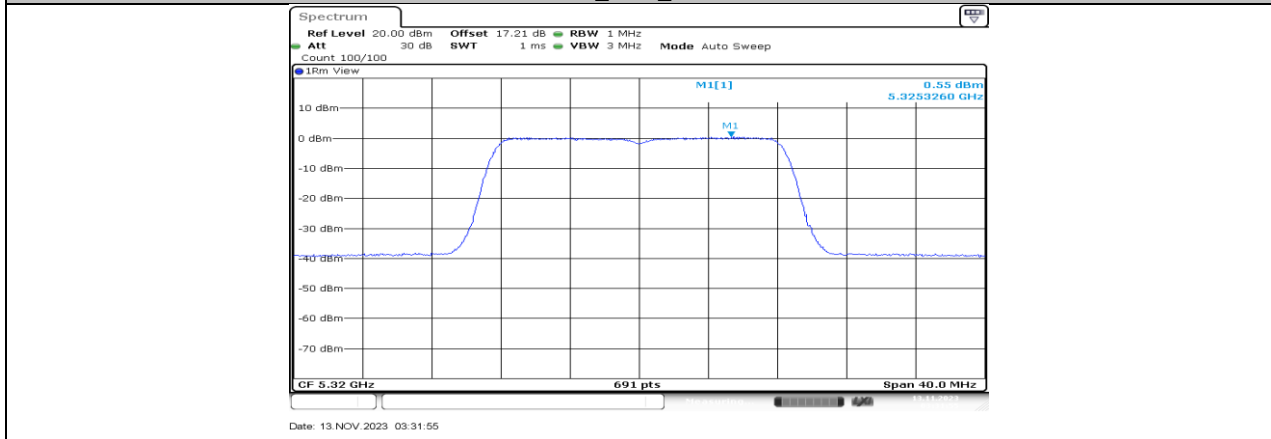
11A_Ant1_5240



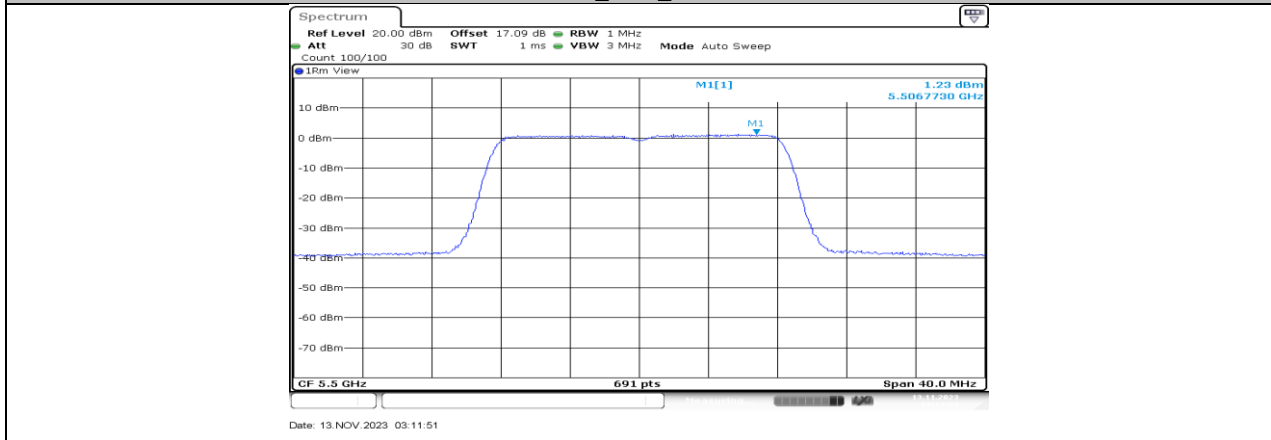




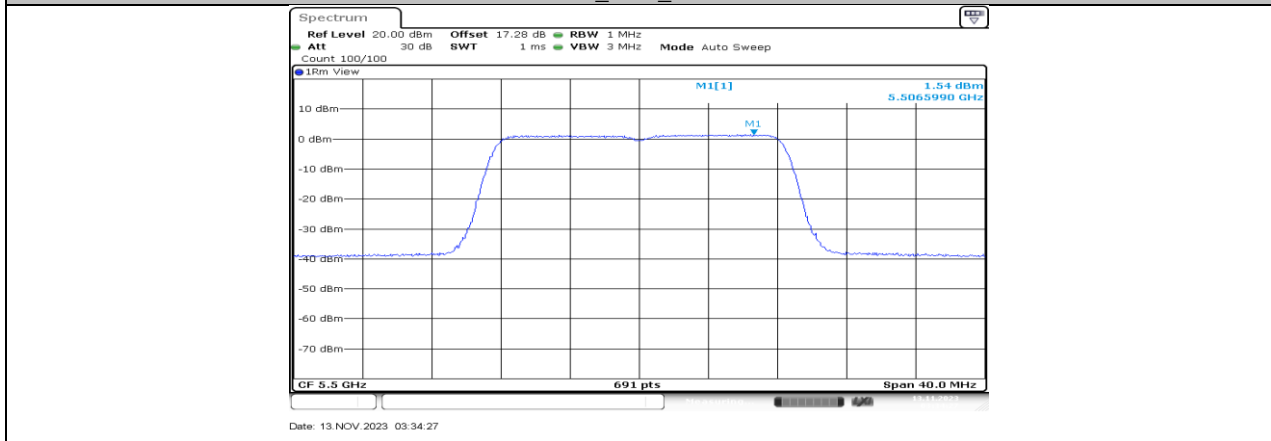
11A_Ant0_5320

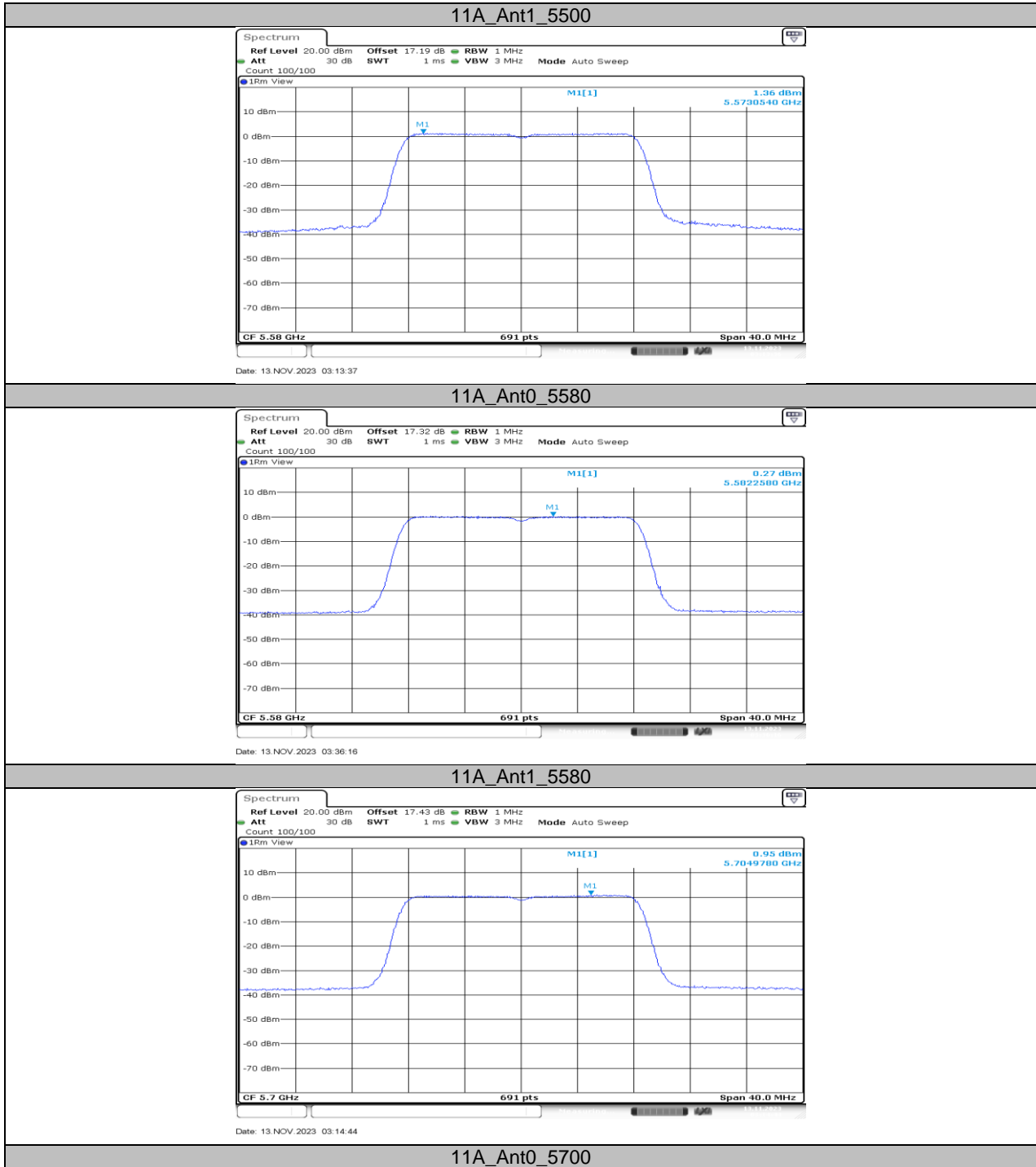


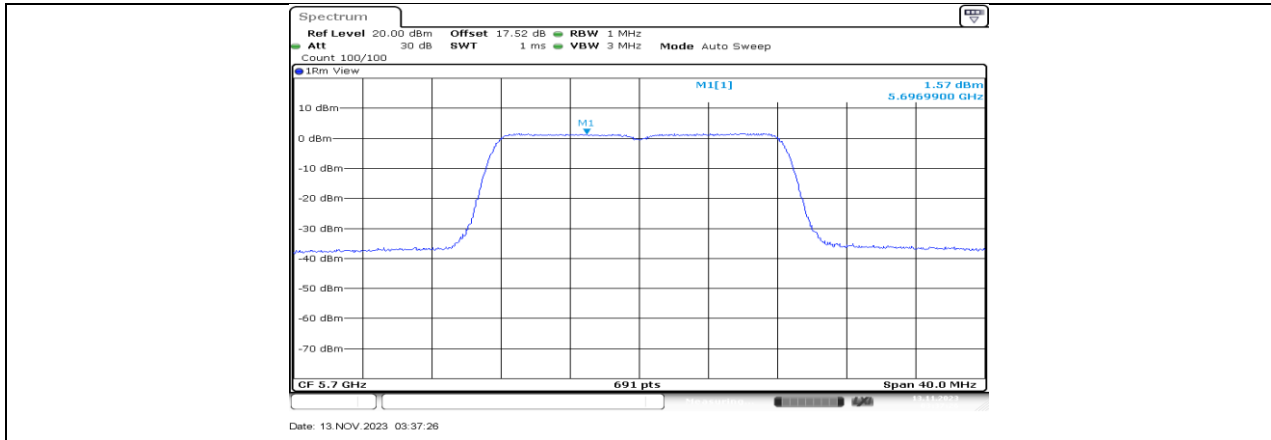
11A_Ant1_5320



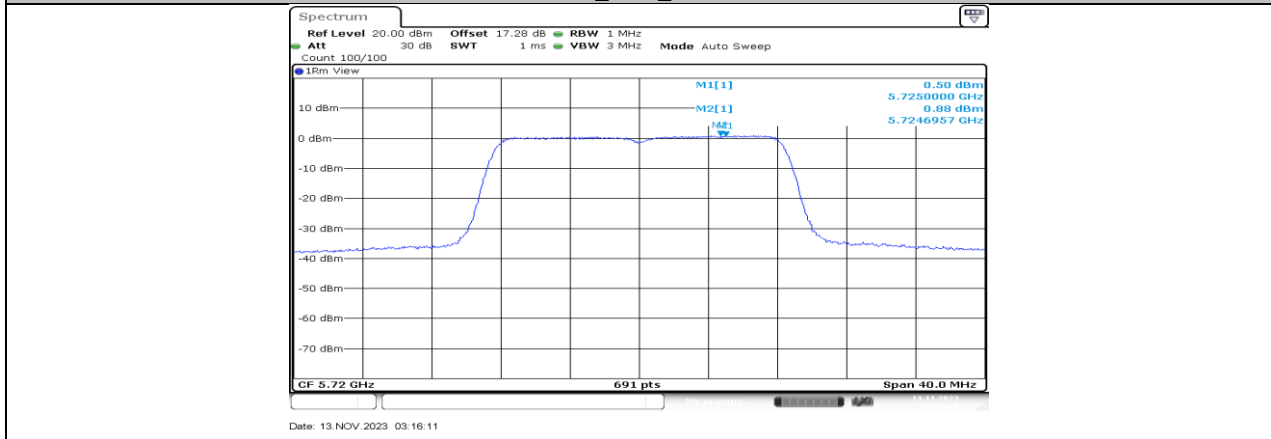
11A_Ant0_5500



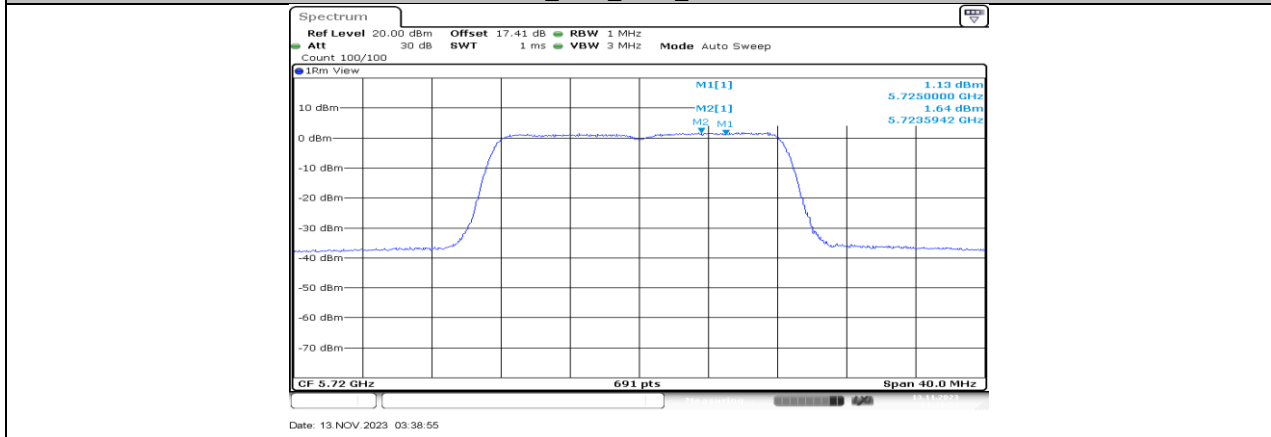




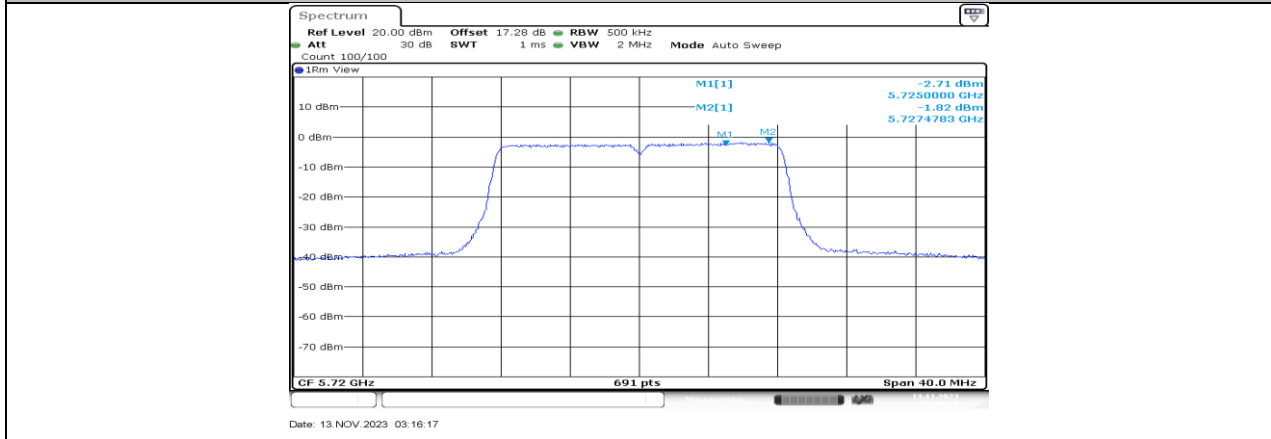
11A_Ant1_5700

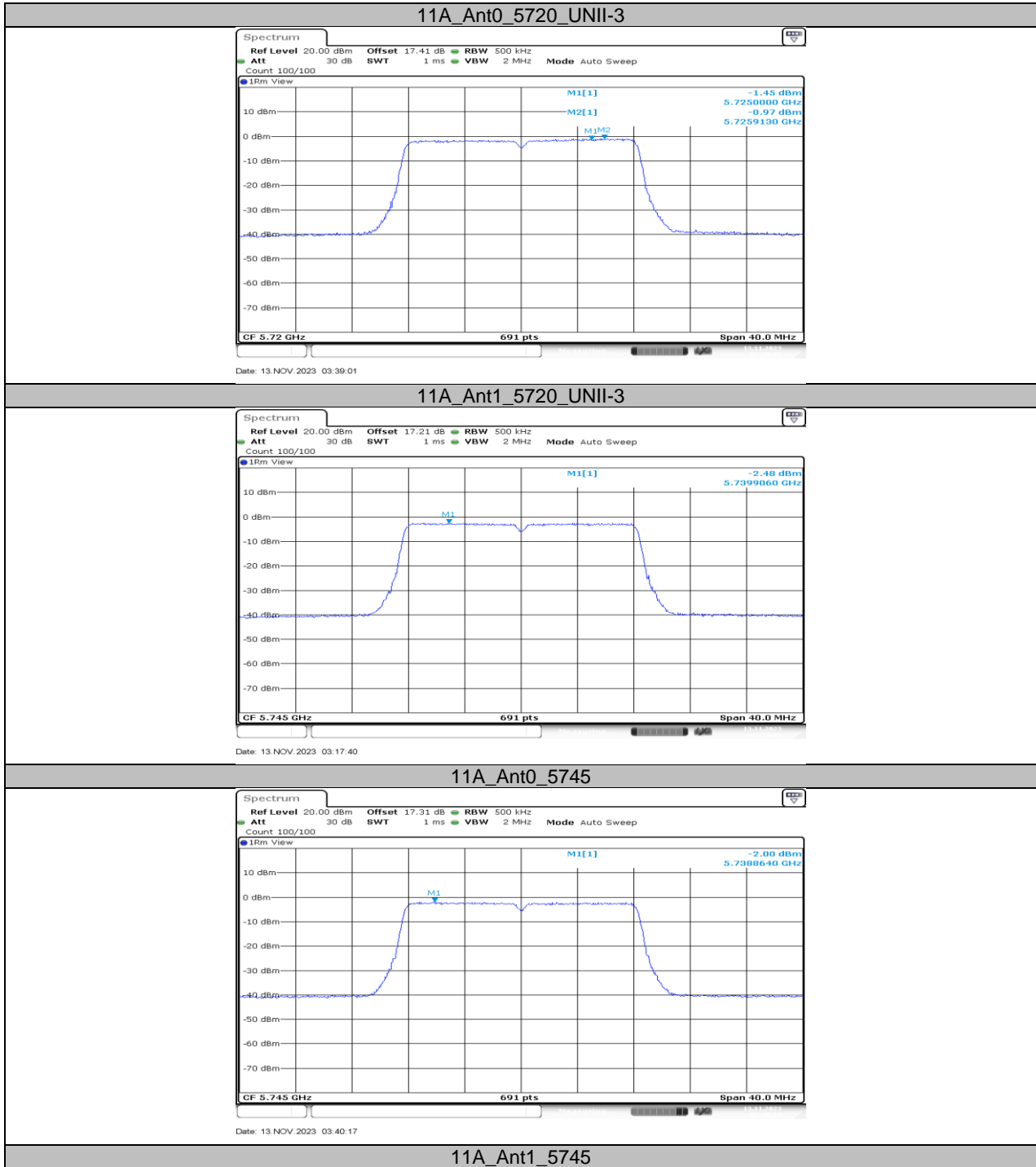


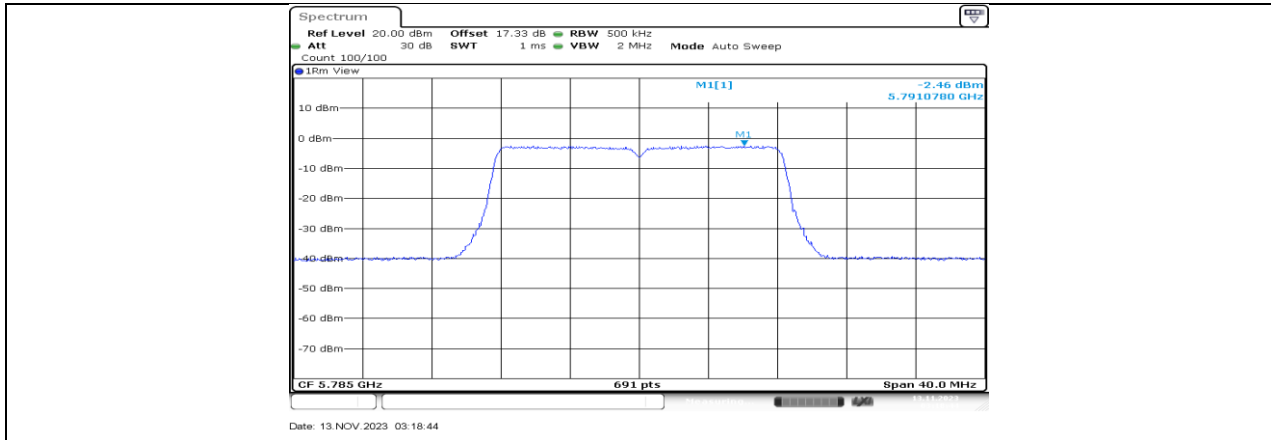
11A_Ant0_5720_UNII-2C



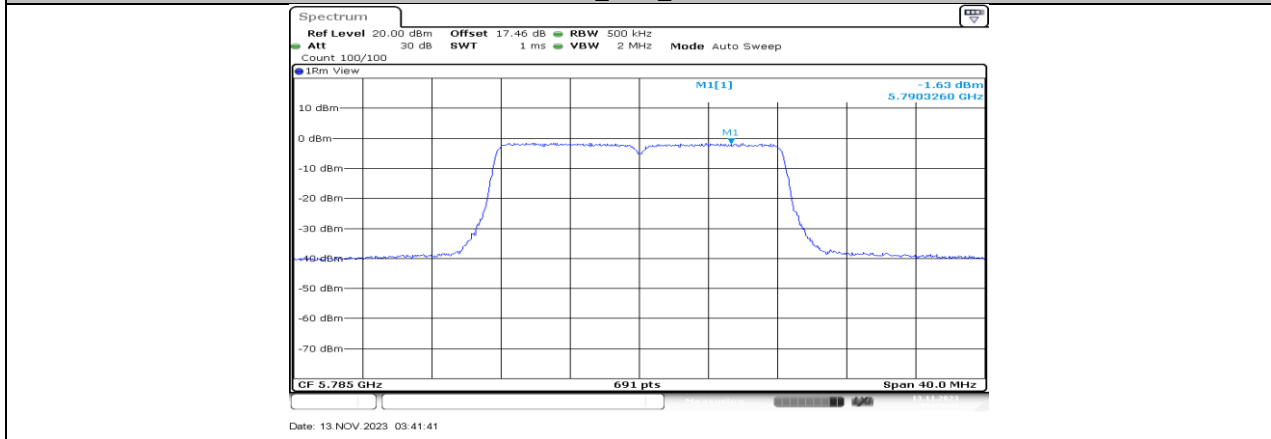
11A_Ant1_5720_UNII-2C



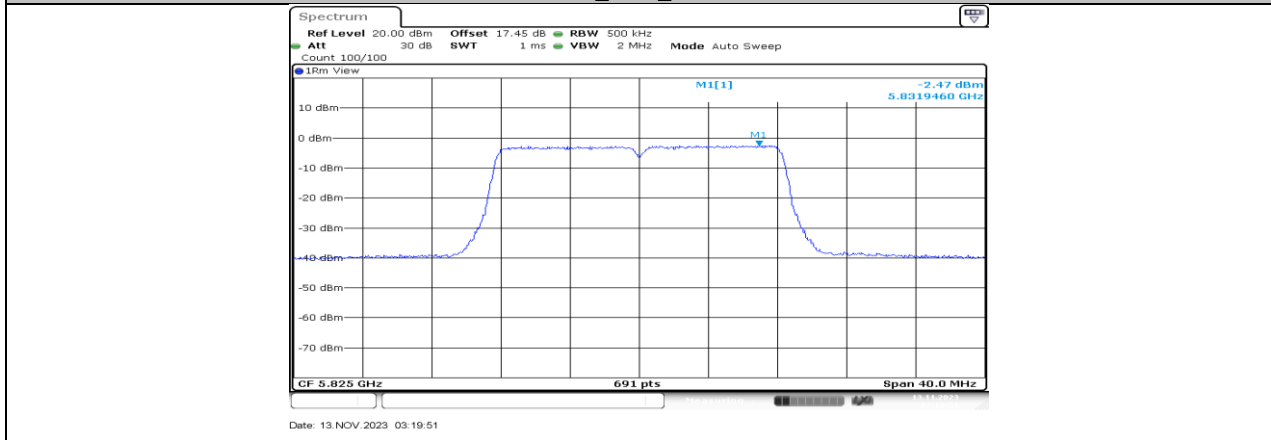




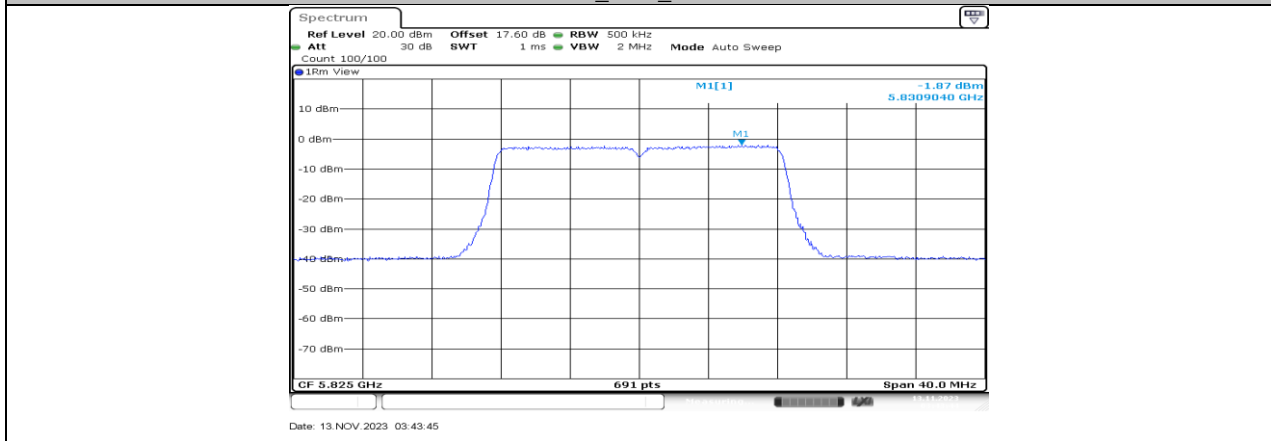
11A_Ant0_5785



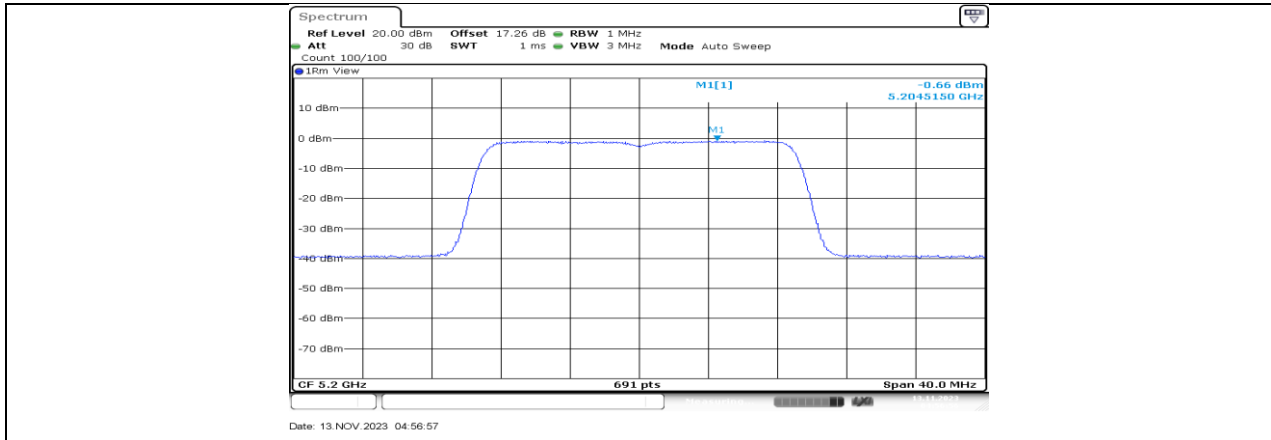
11A_Ant1_5785



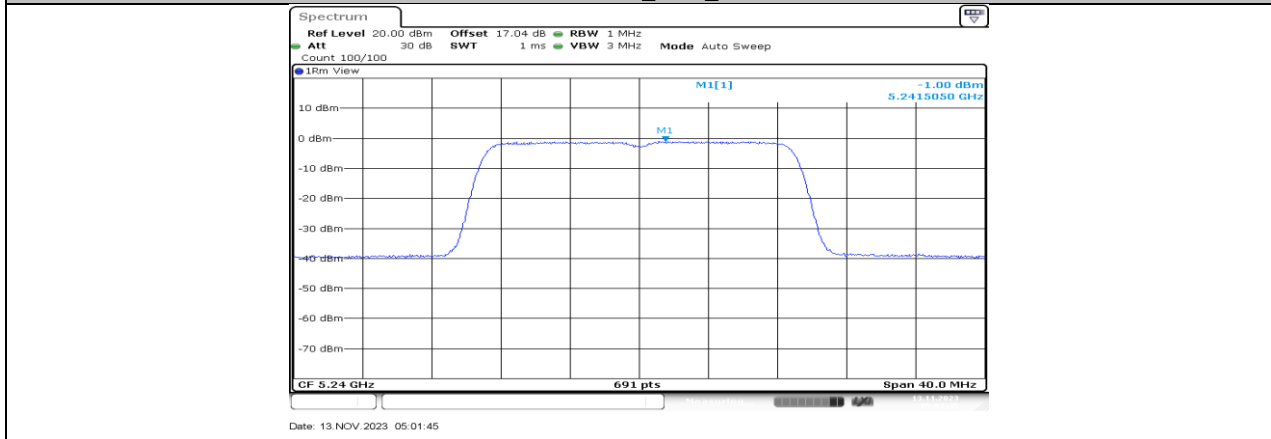
11A_Ant0_5825



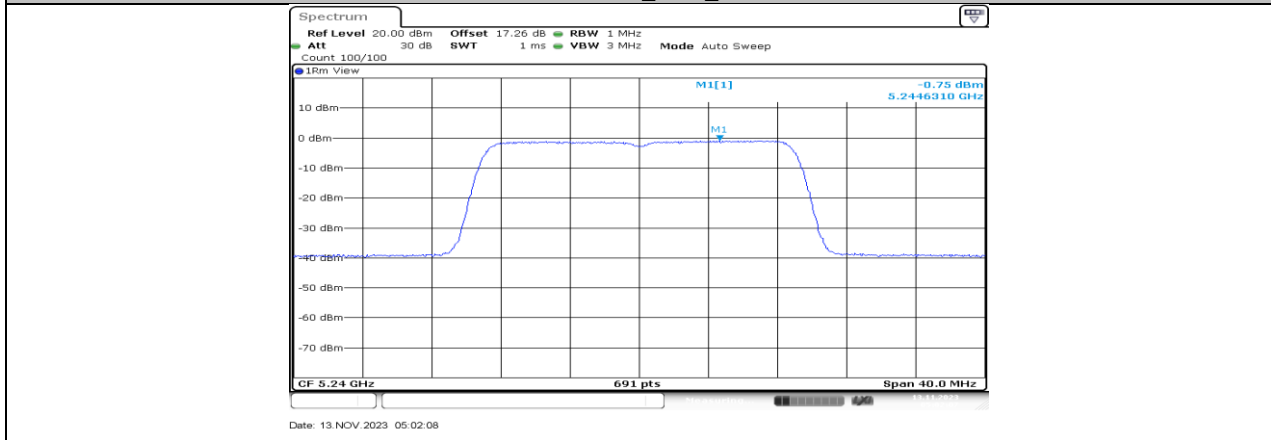




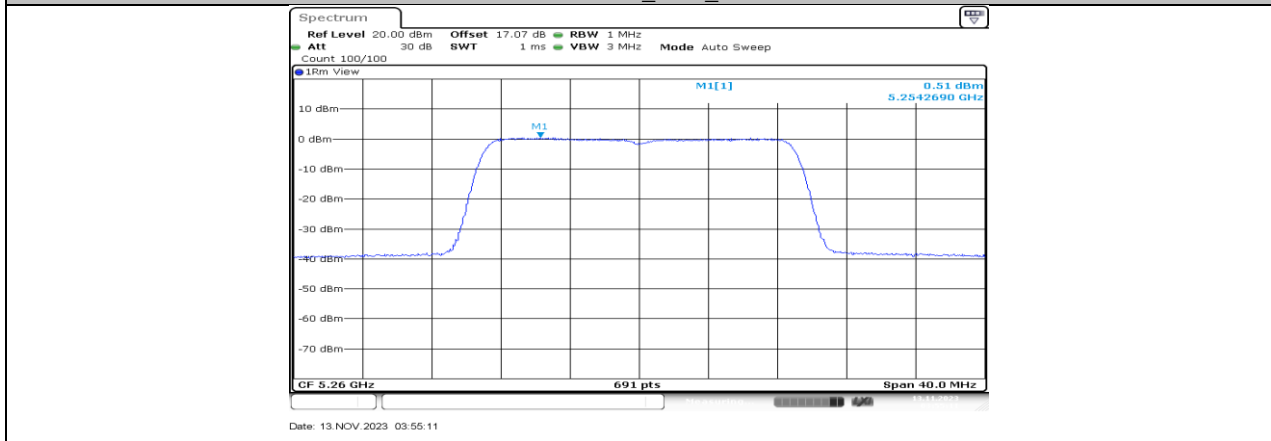
11N20MIMO_Ant1_5200

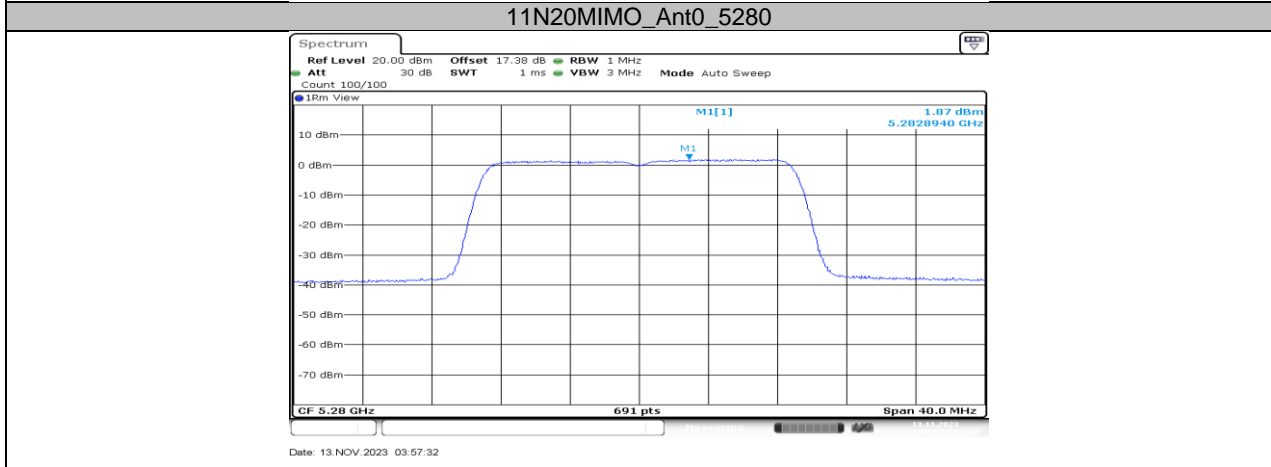
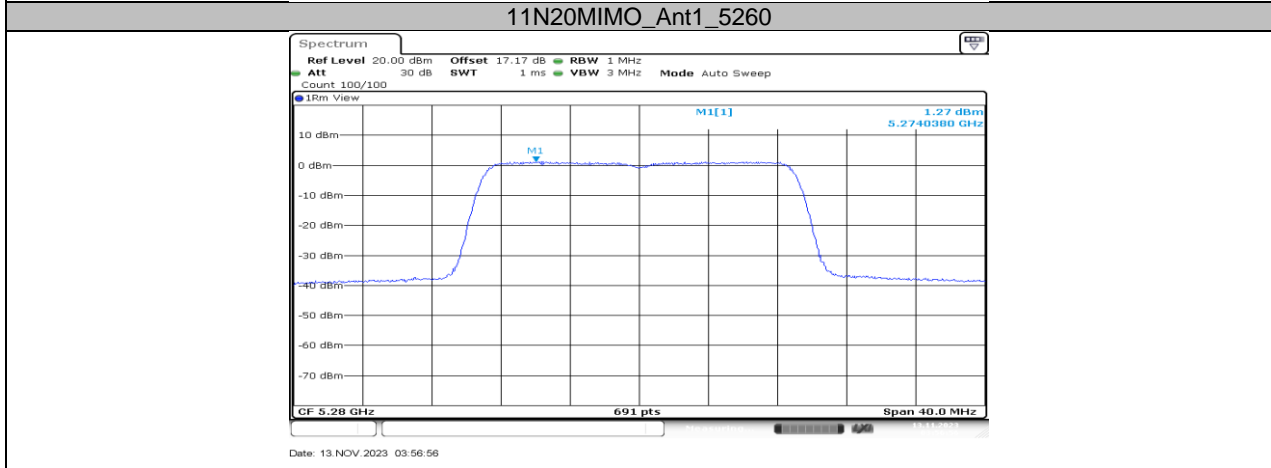
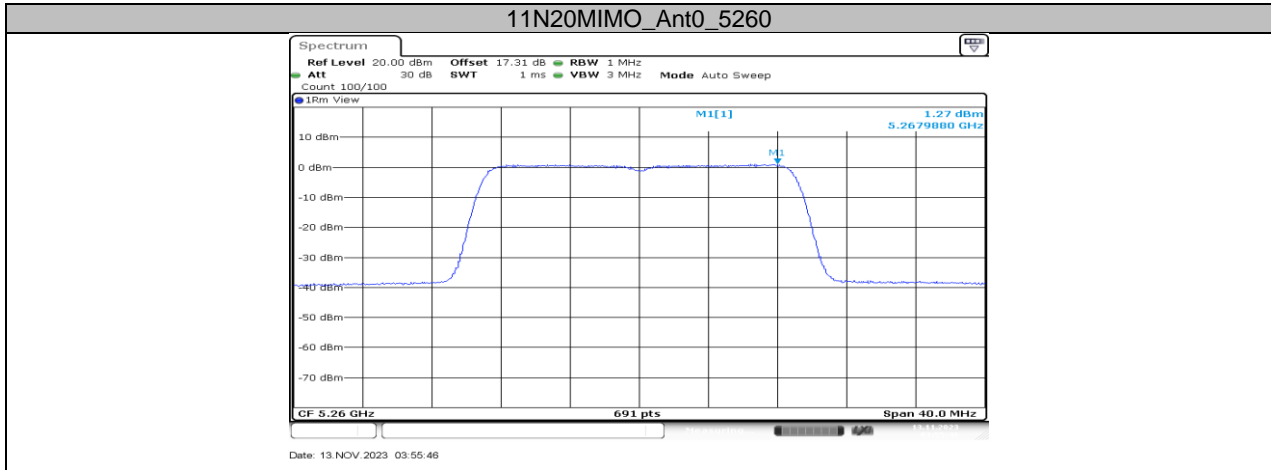


11N20MIMO_Ant0_5240

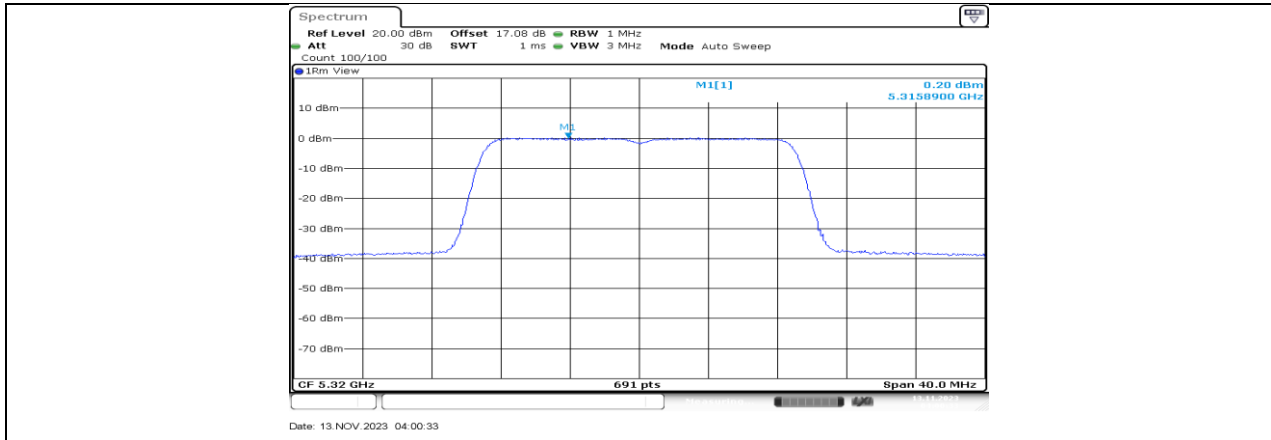


11N20MIMO_Ant1_5240

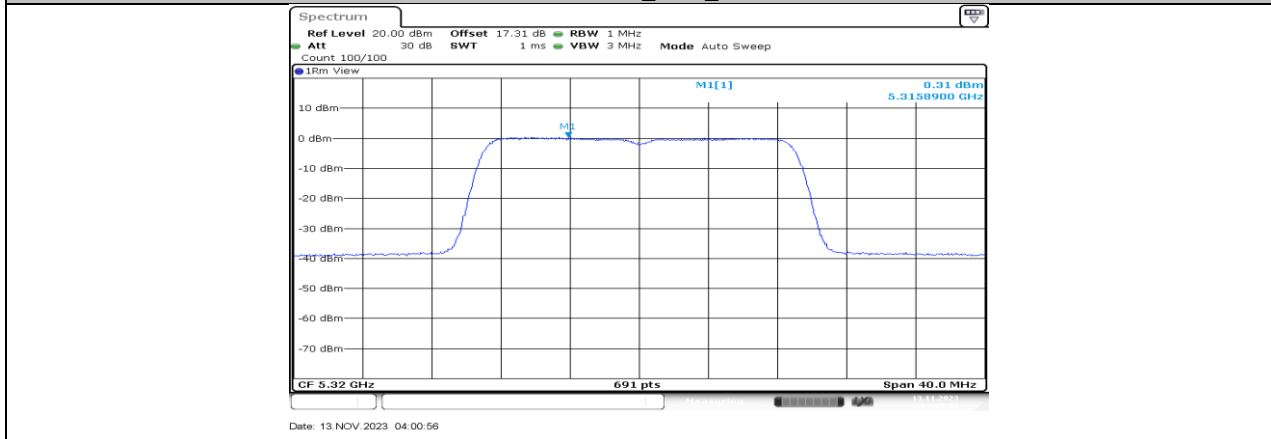




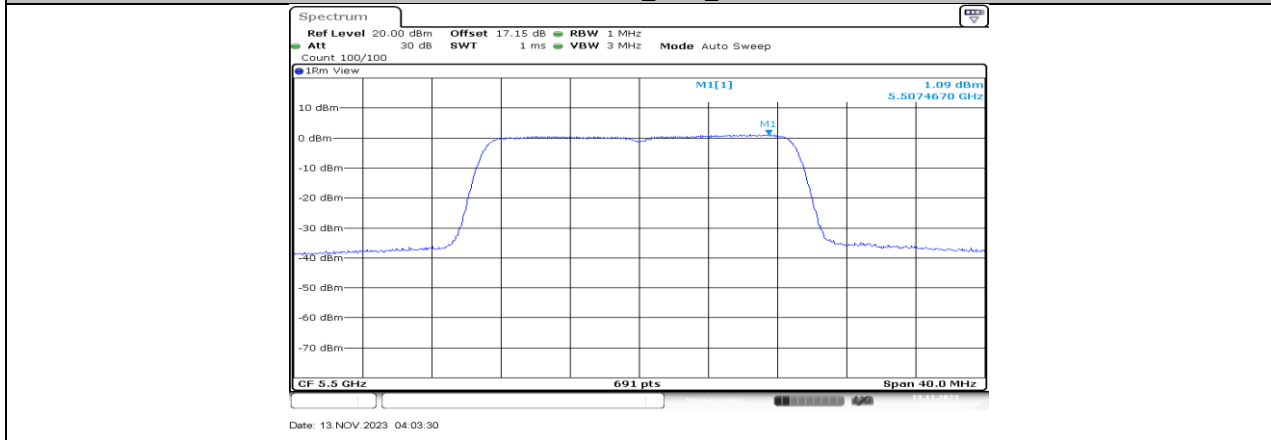
11N20MIMO_Ant1_5280



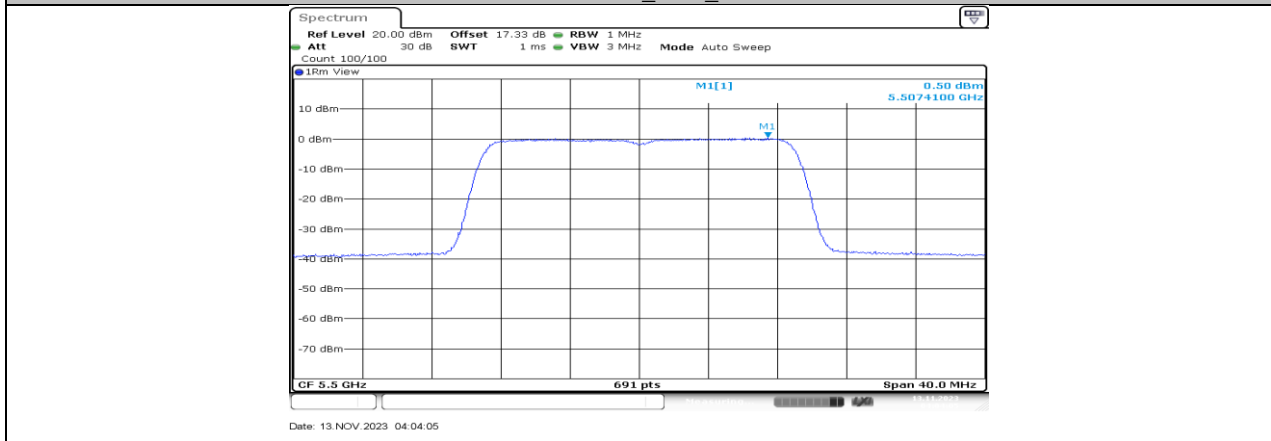
11N20MIMO_Ant0_5320

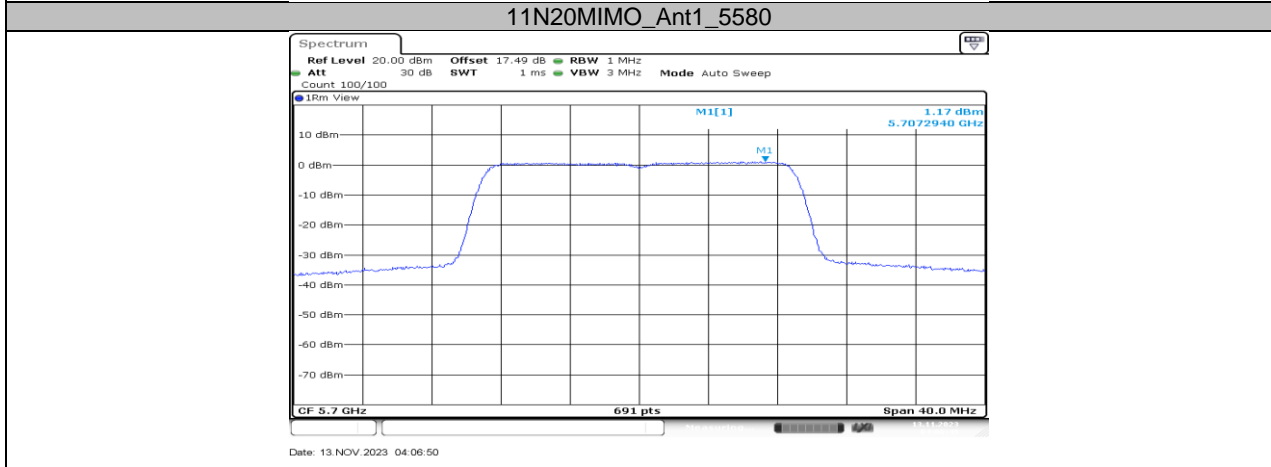
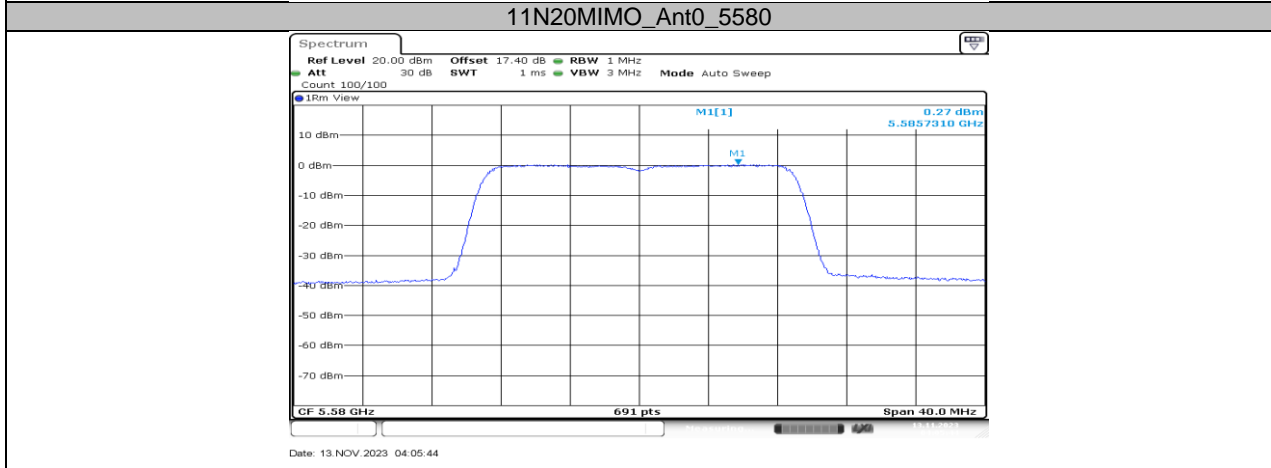
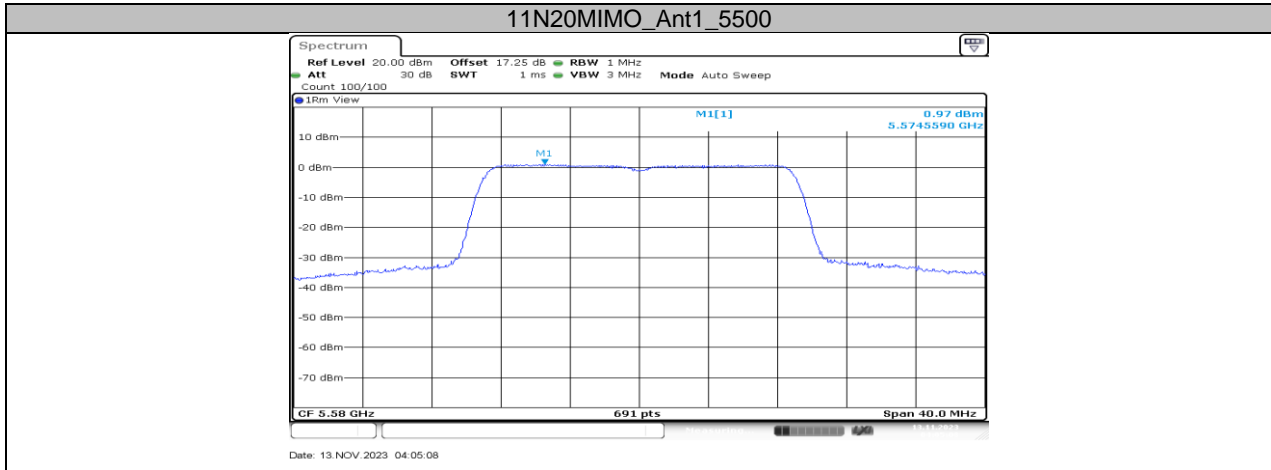


11N20MIMO_Ant1_5320

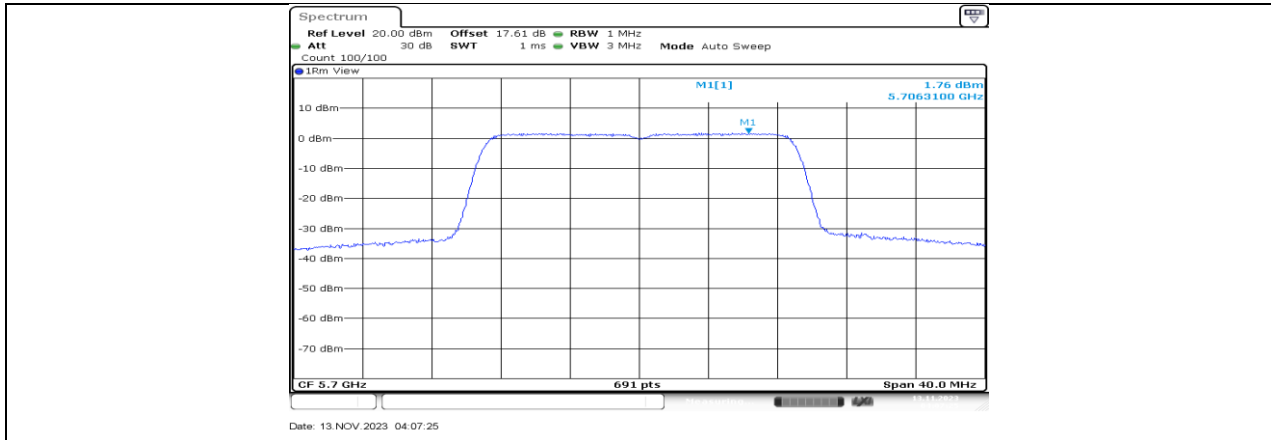


11N20MIMO_Ant0_5500

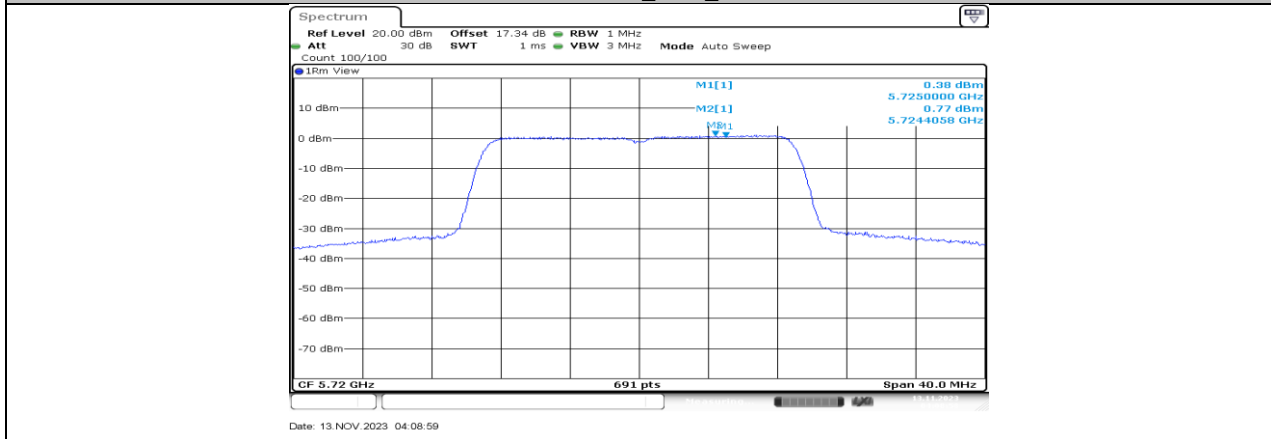




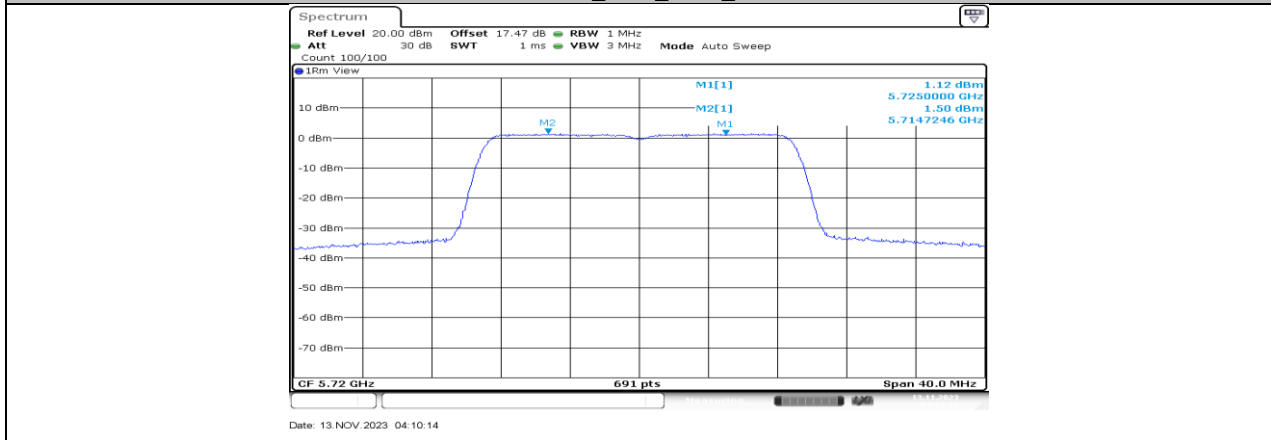
11N20MIMO_Ant0_5700



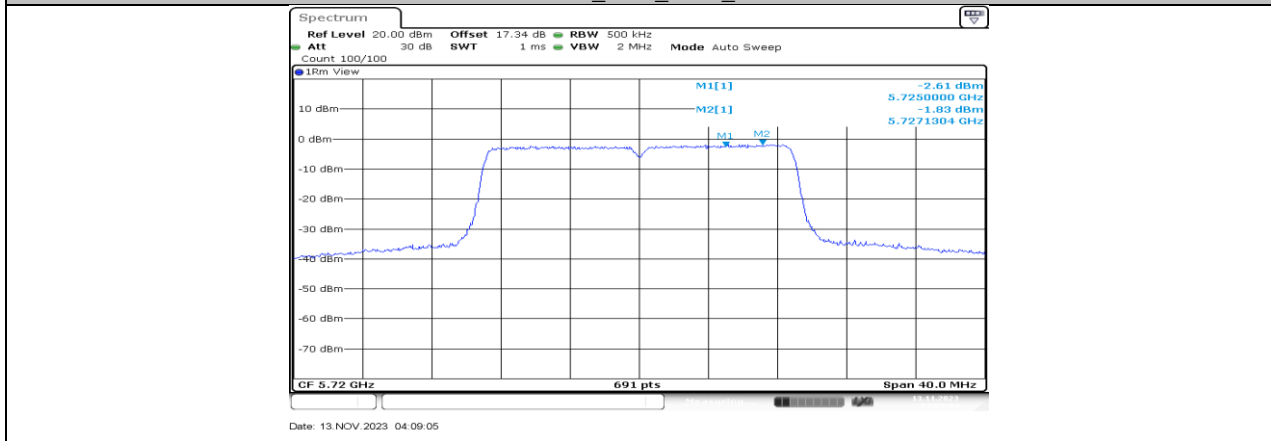
11N20MIMO_Ant1_5700

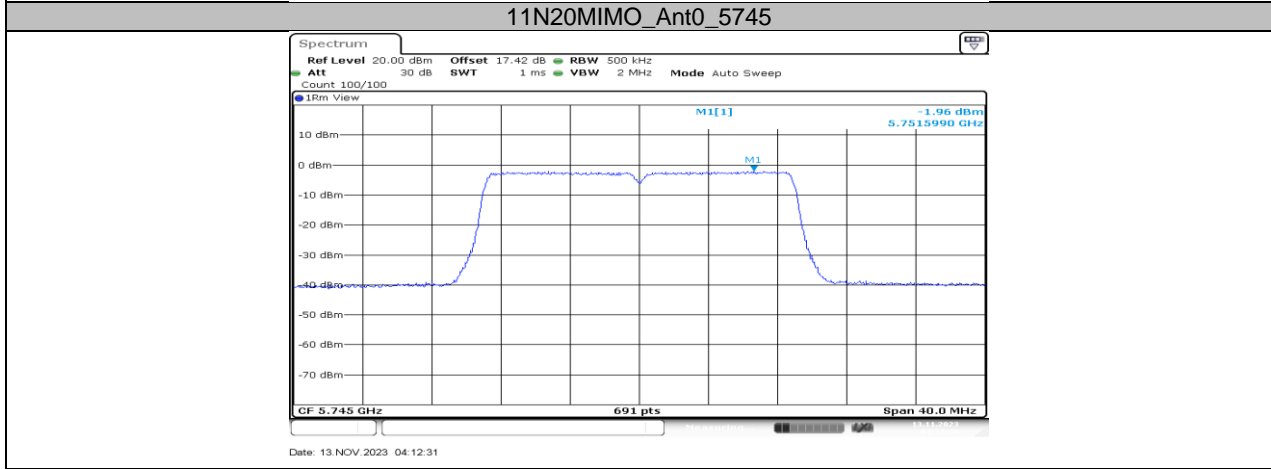
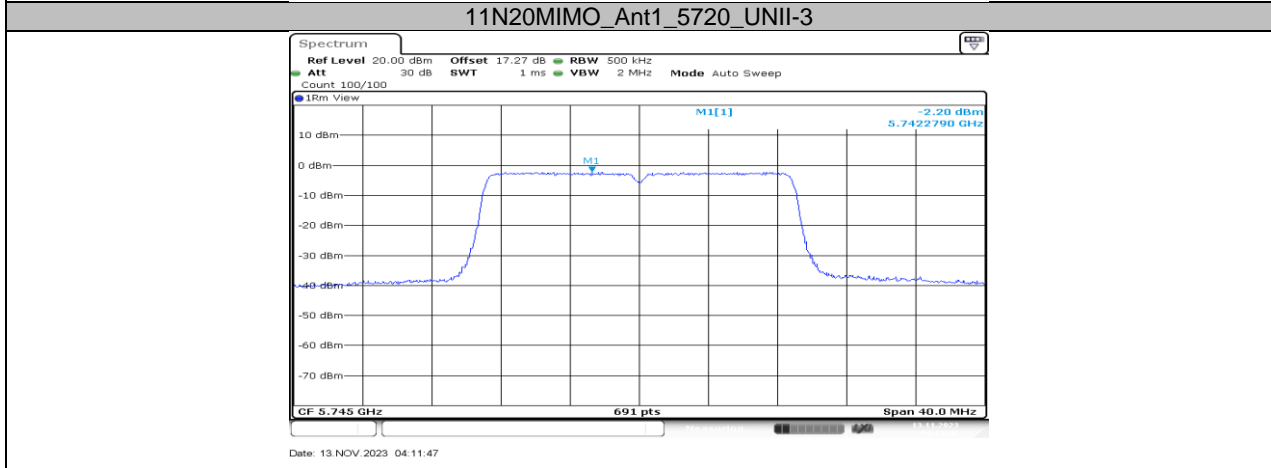
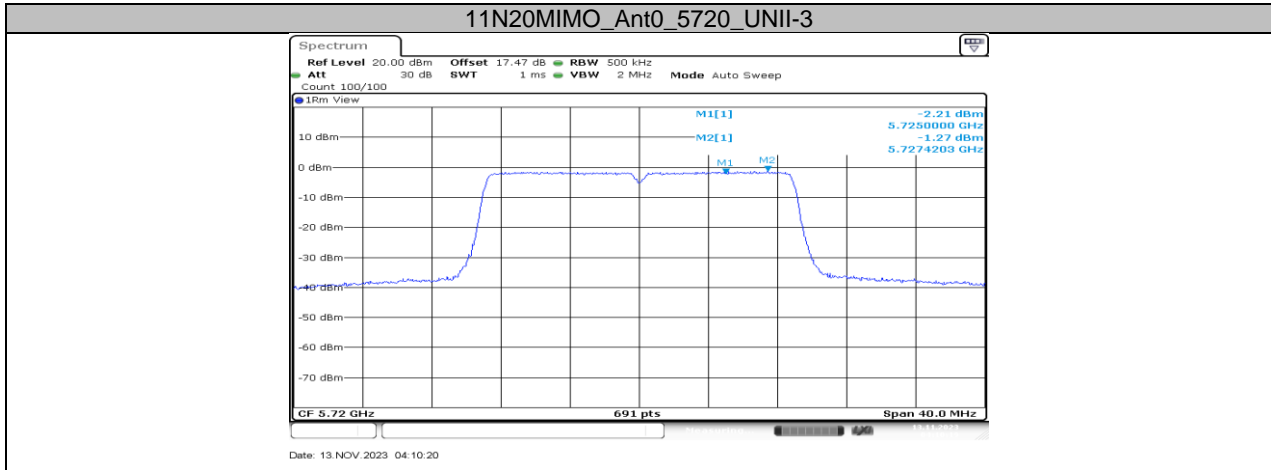


11N20MIMO_Ant0_5720_UNII-2C

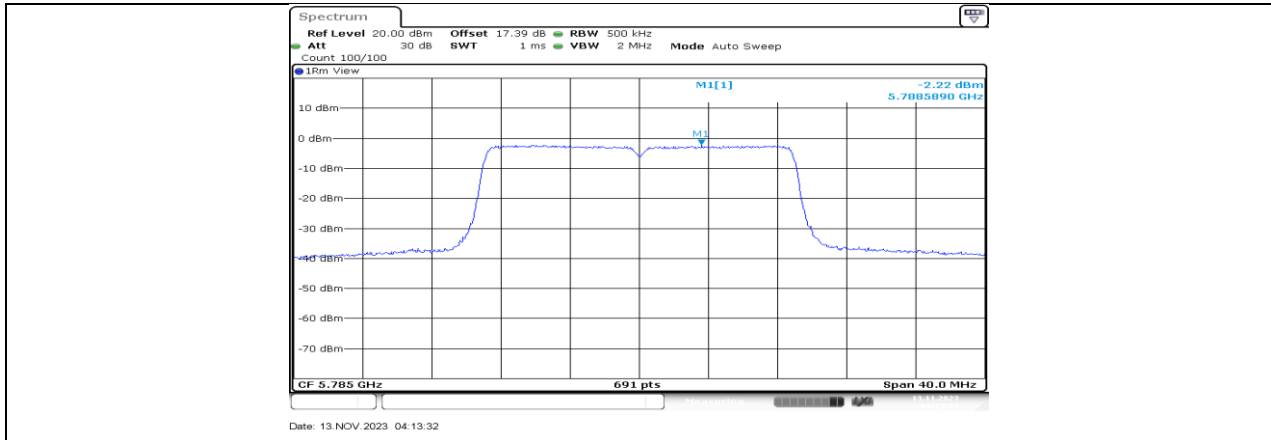


11N20MIMO_Ant1_5720_UNII-2C

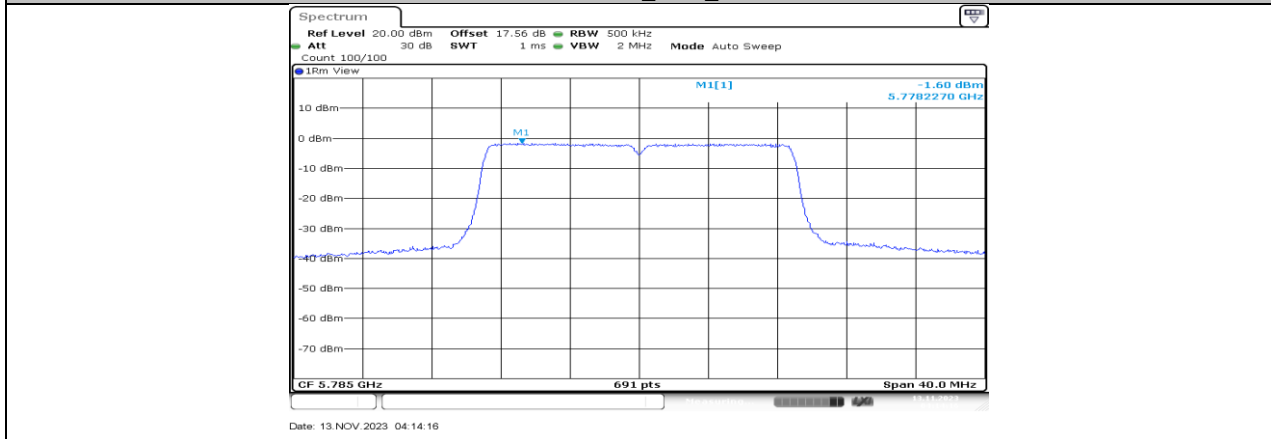




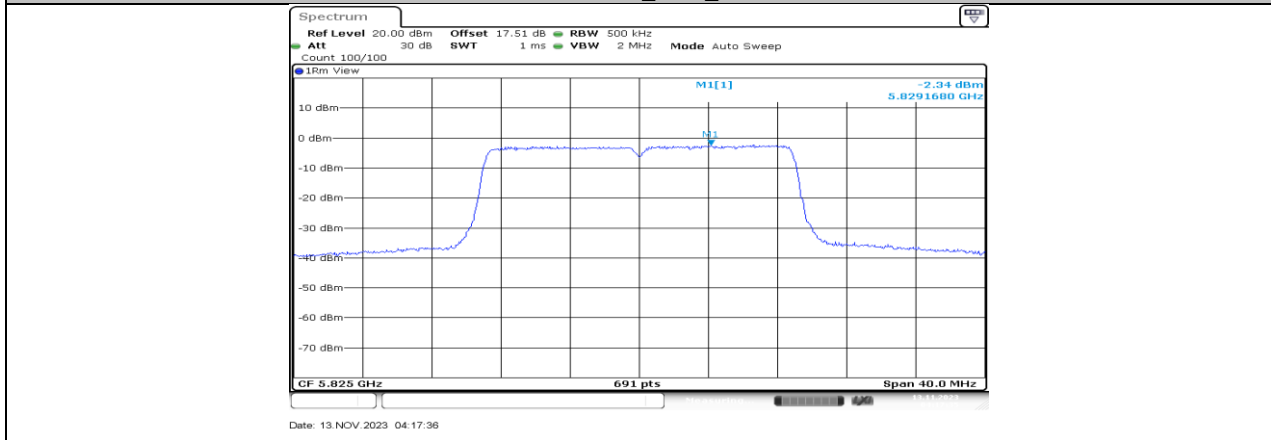
11N20MIMO_Ant1_5745



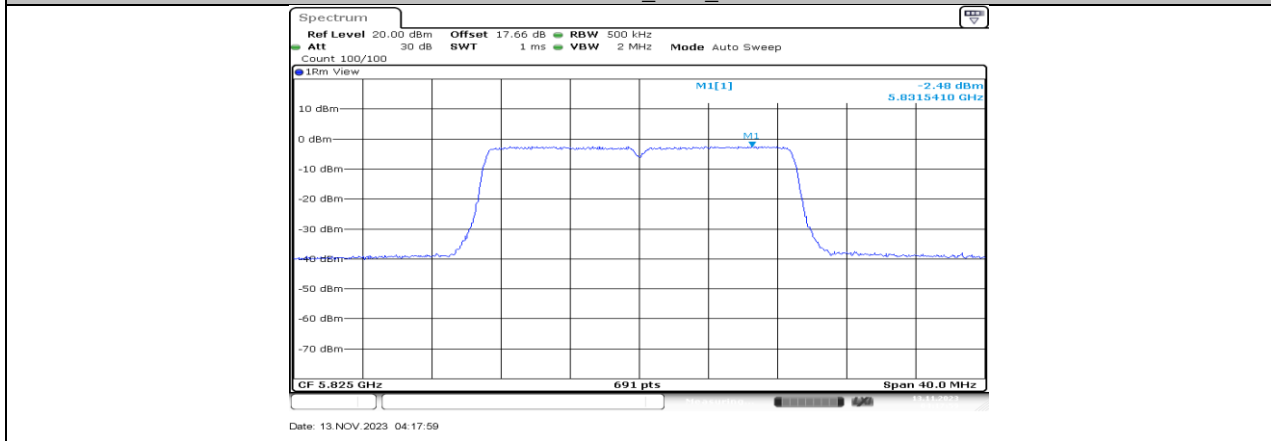
11N20MIMO_Ant0_5785

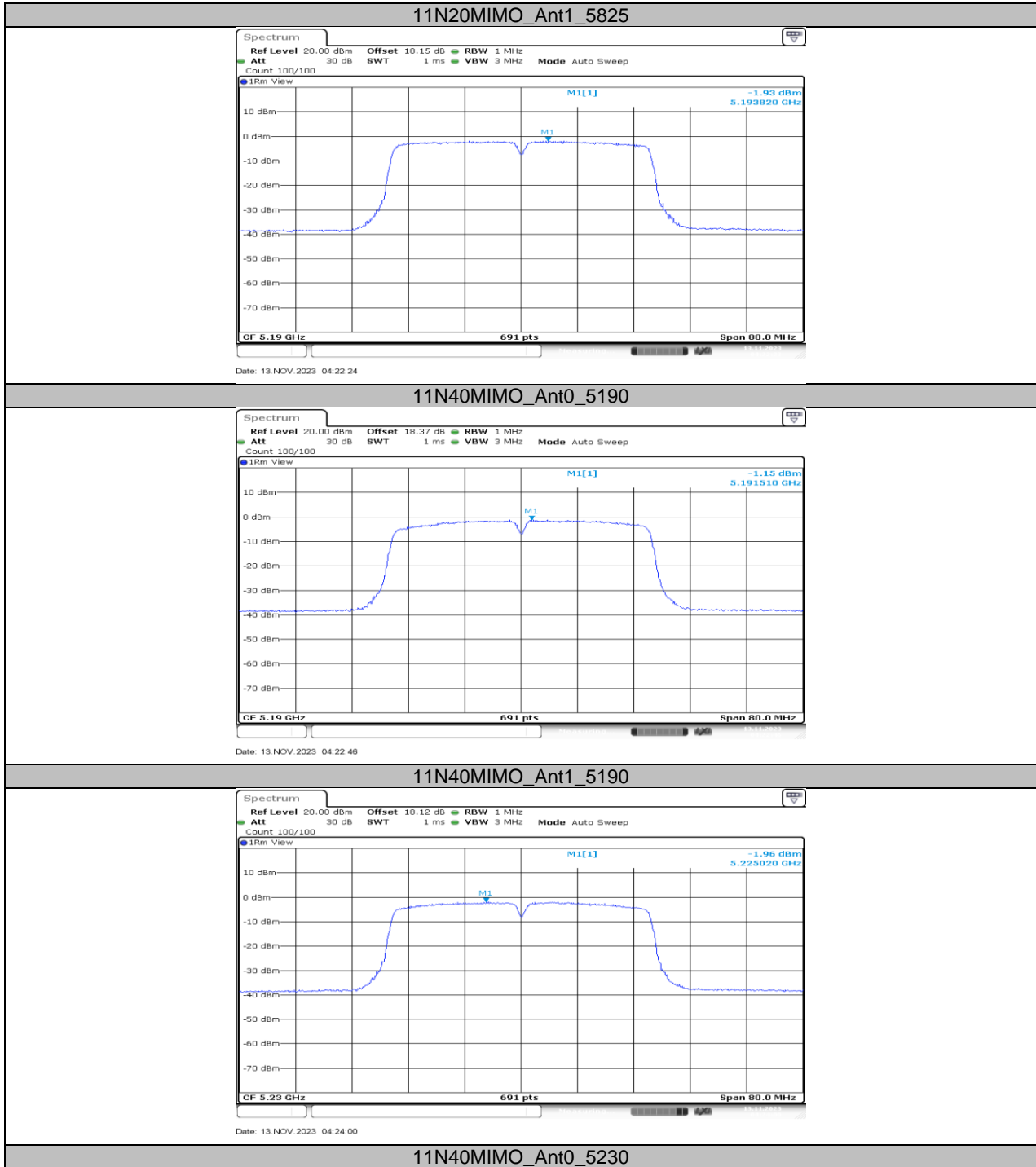


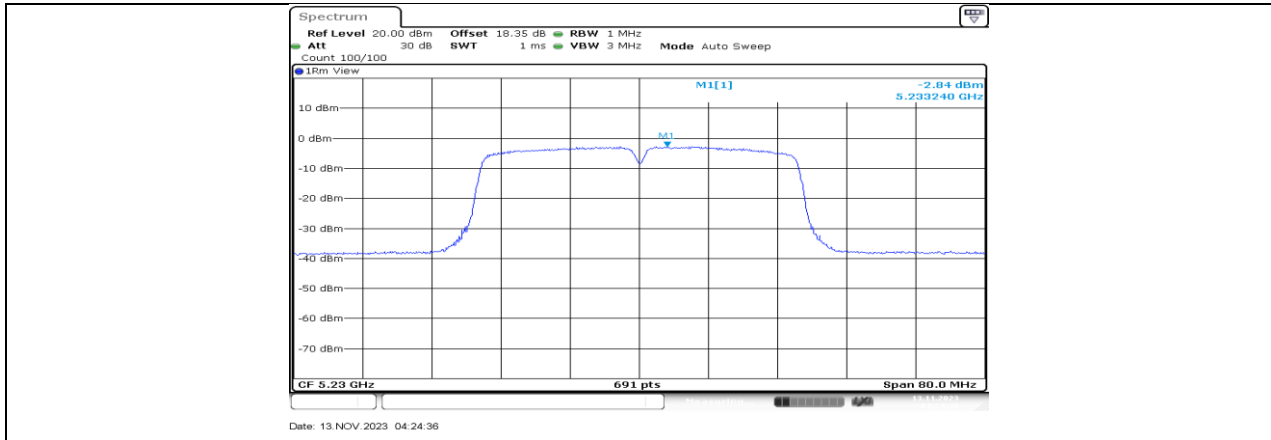
11N20MIMO_Ant1_5785



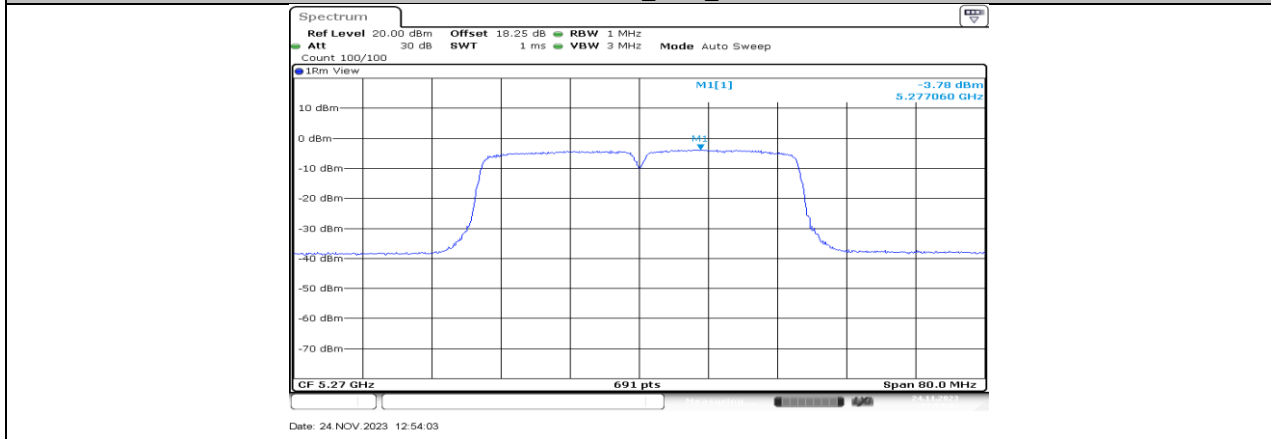
11N20MIMO_Ant0_5825



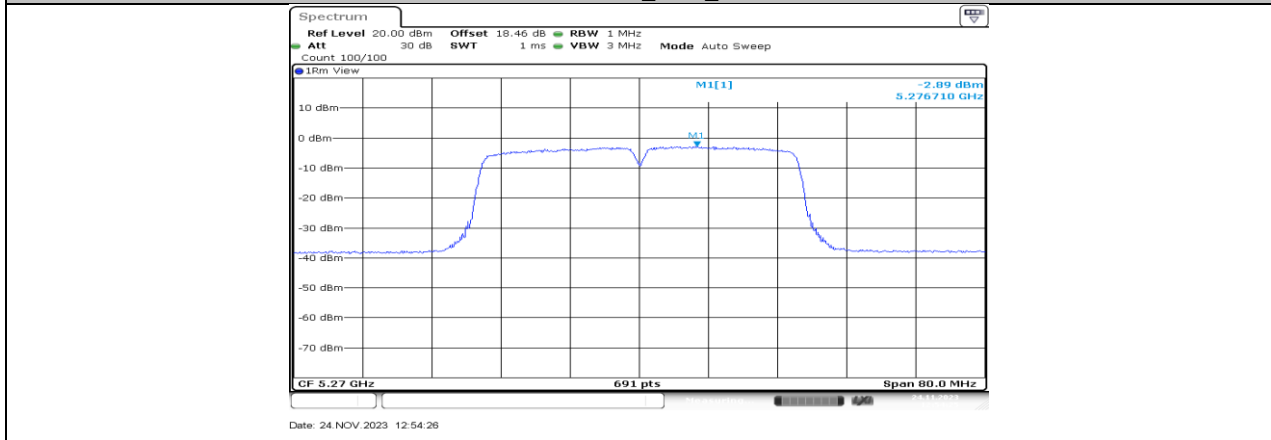




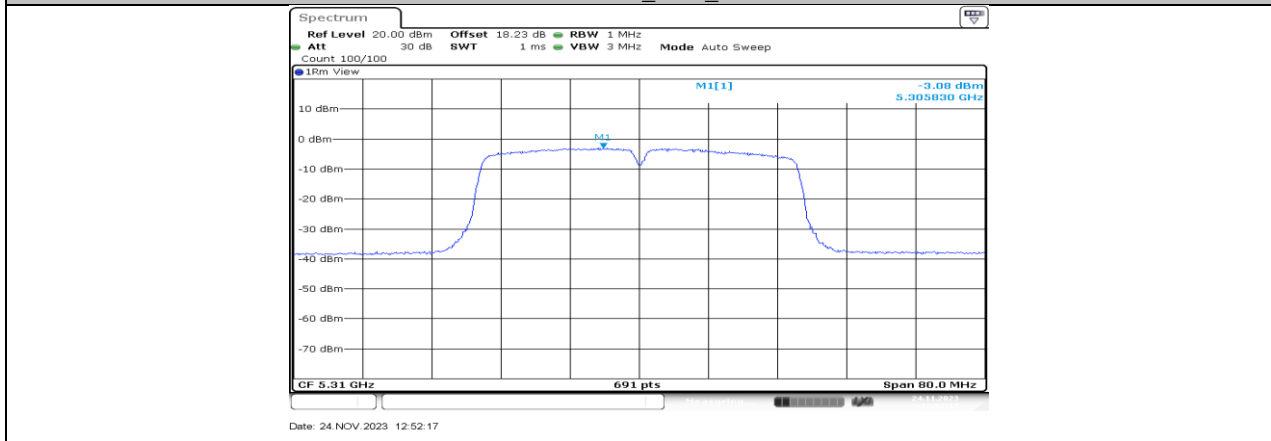
11N40MIMO_Ant1_5230

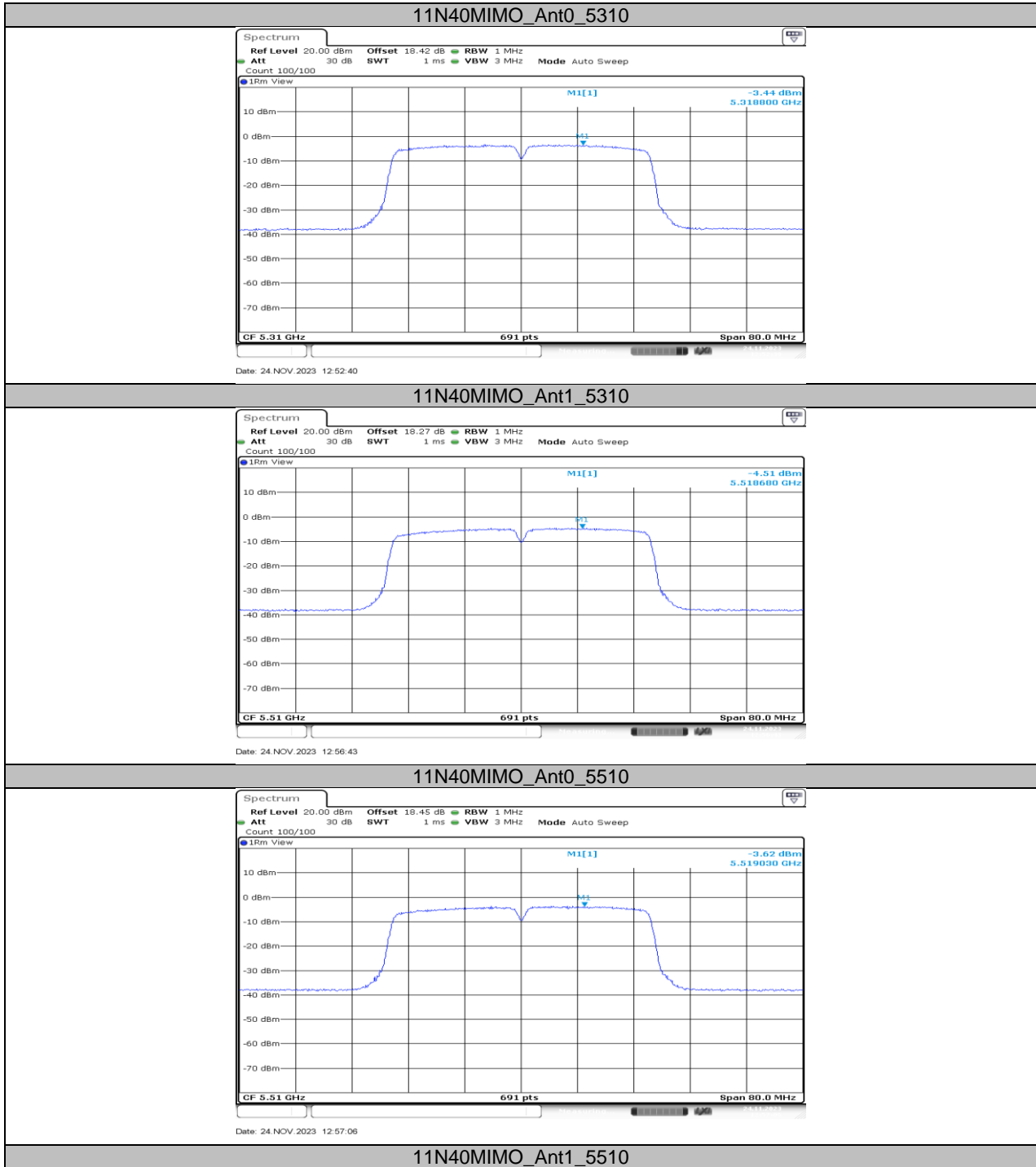


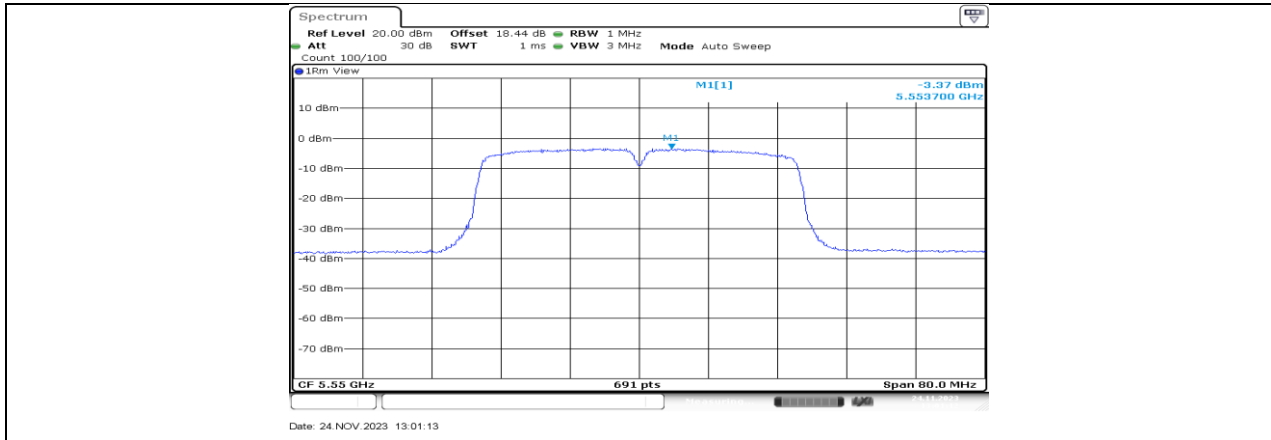
11N40MIMO_Ant0_5270



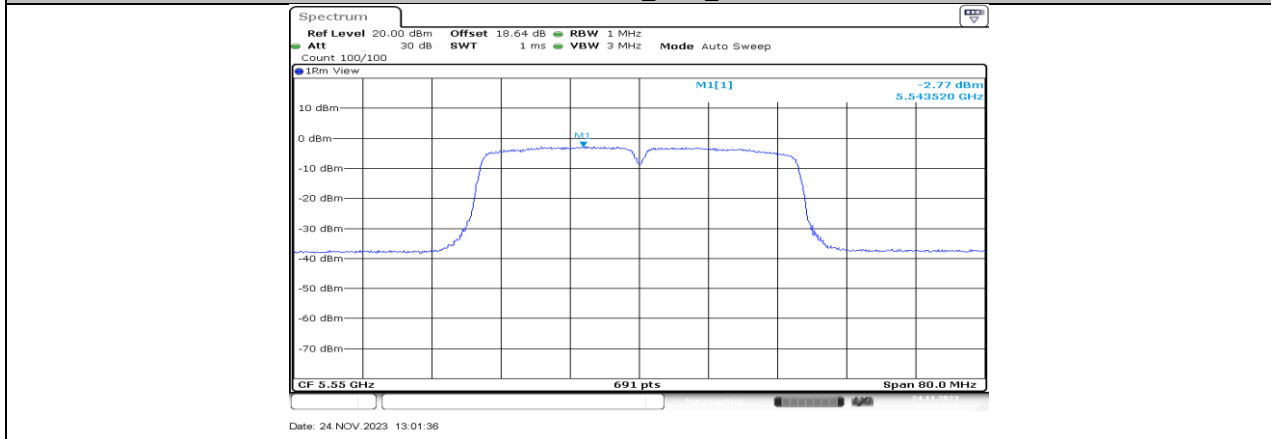
11N40MIMO_Ant1_5270



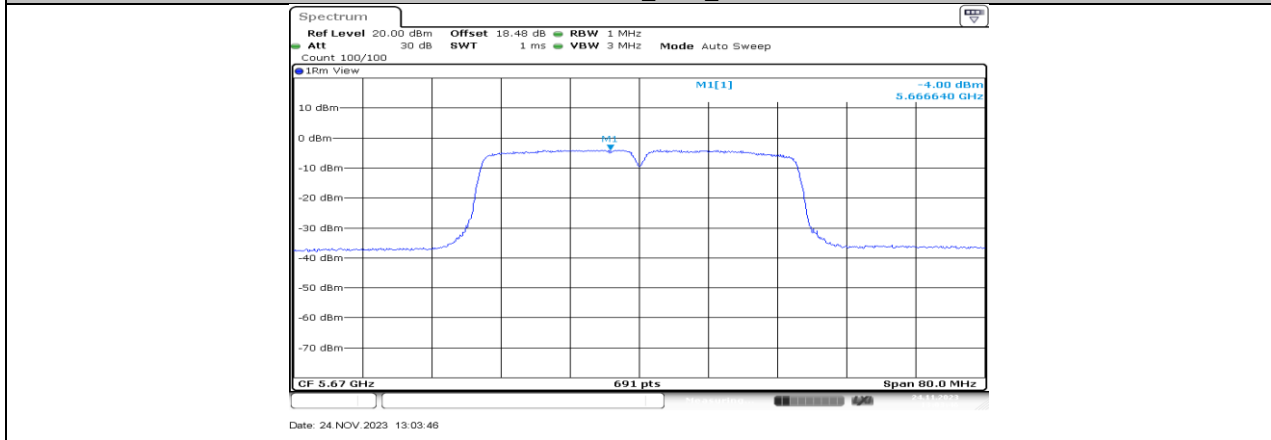




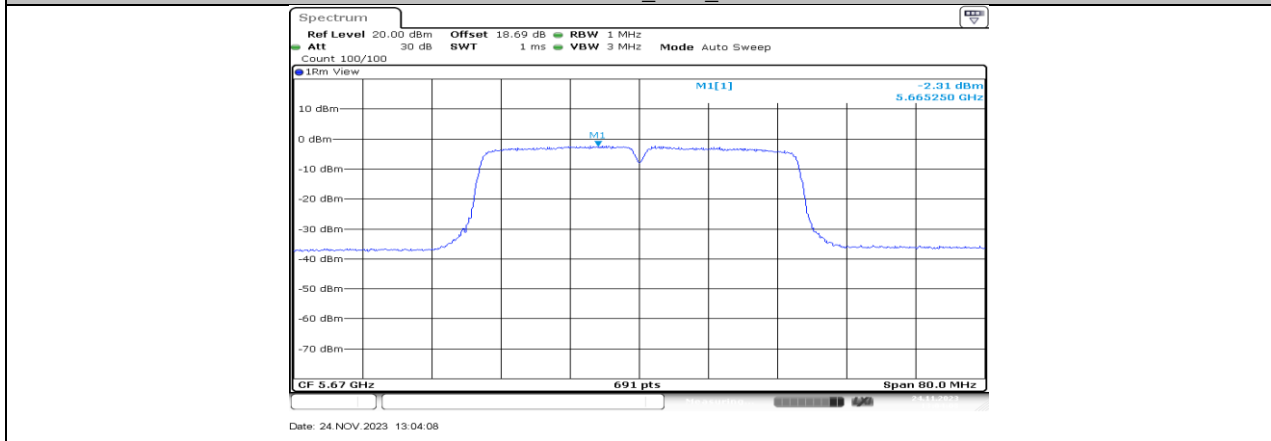
11N40MIMO_Ant0_5550

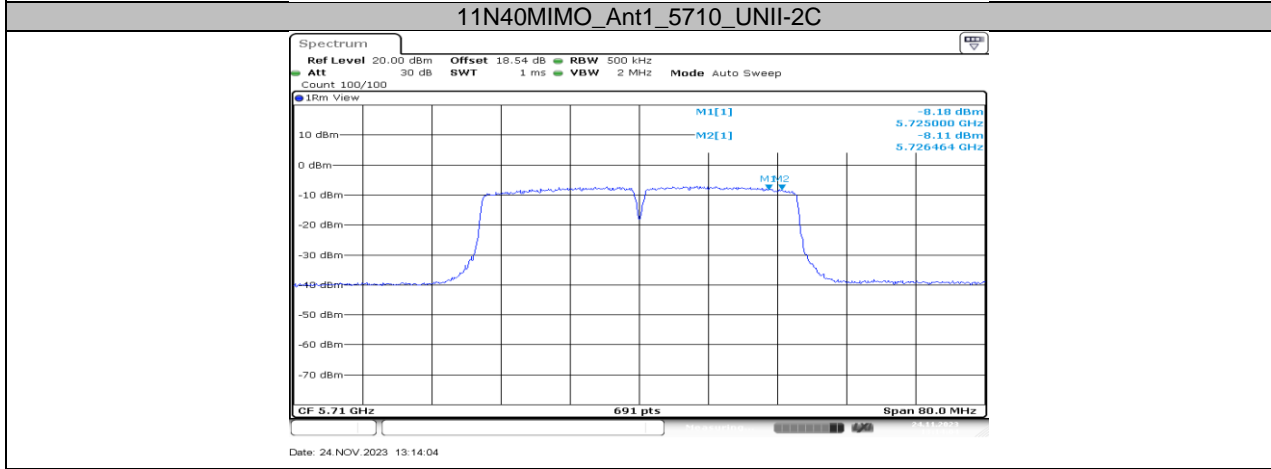
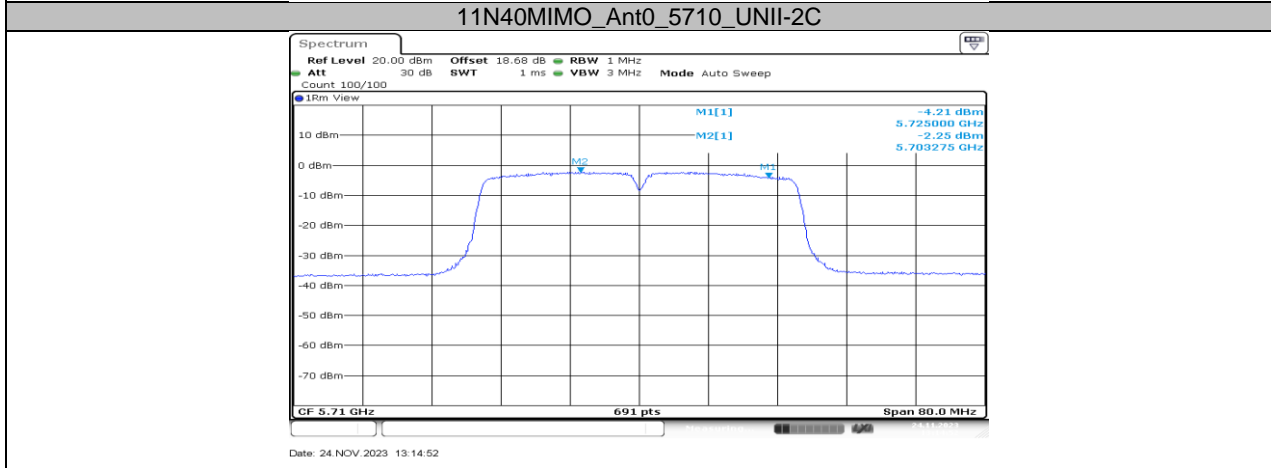
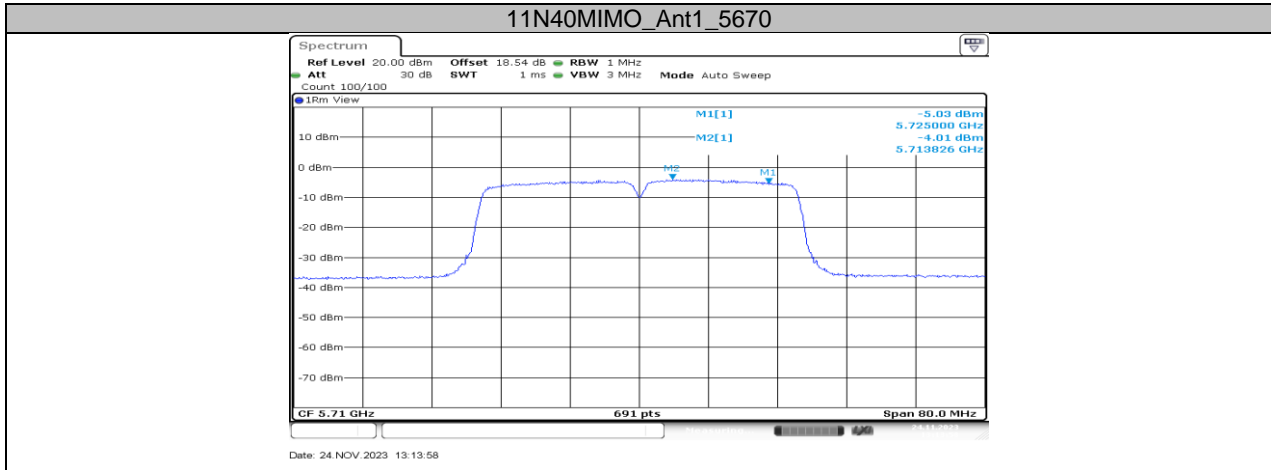


11N40MIMO_Ant1_5550

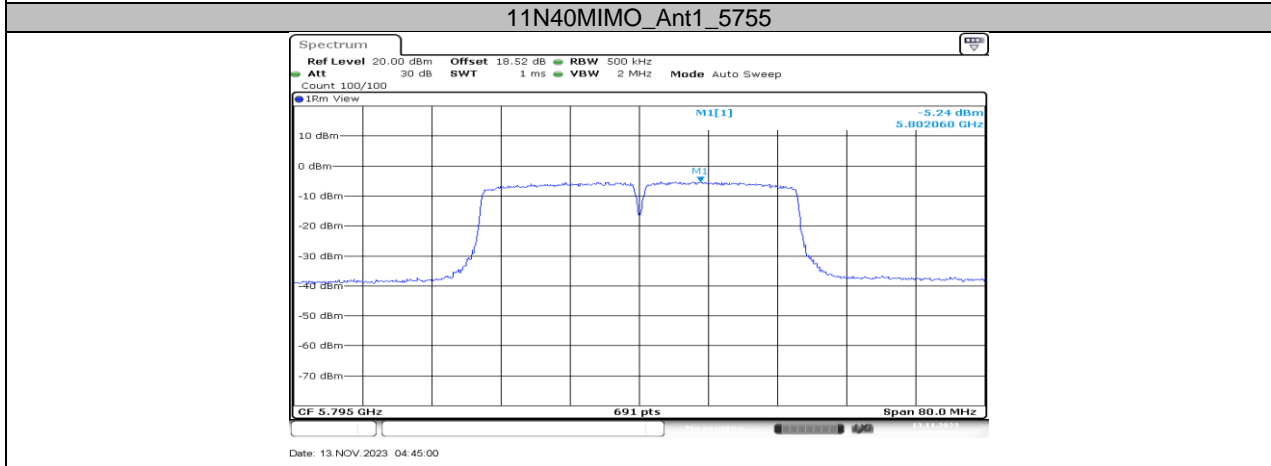
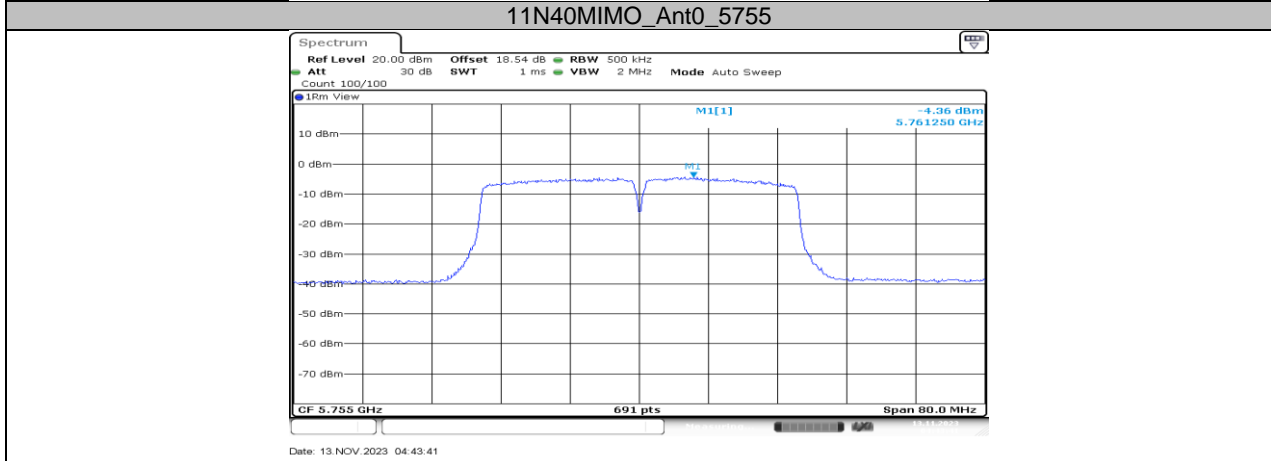
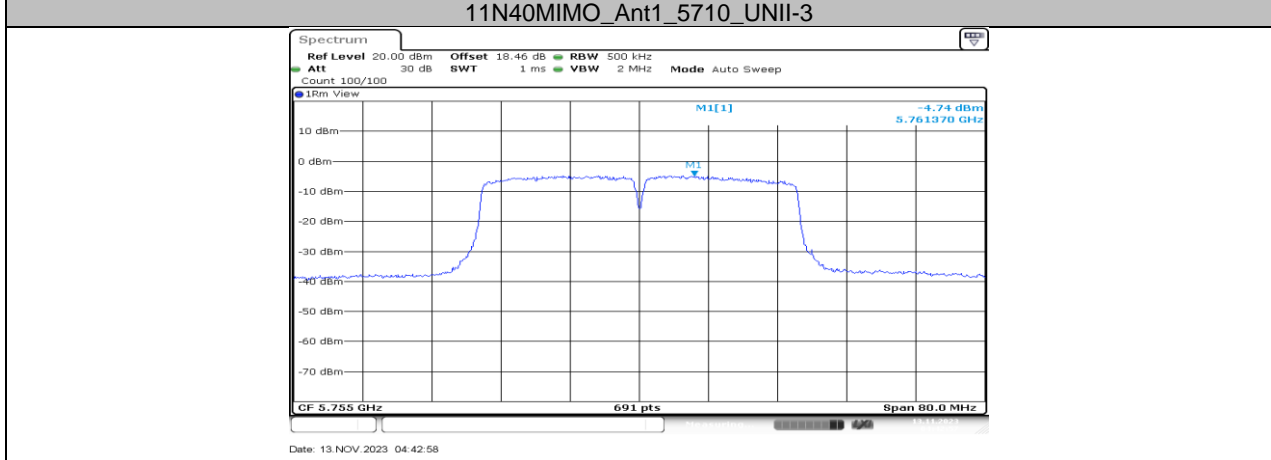
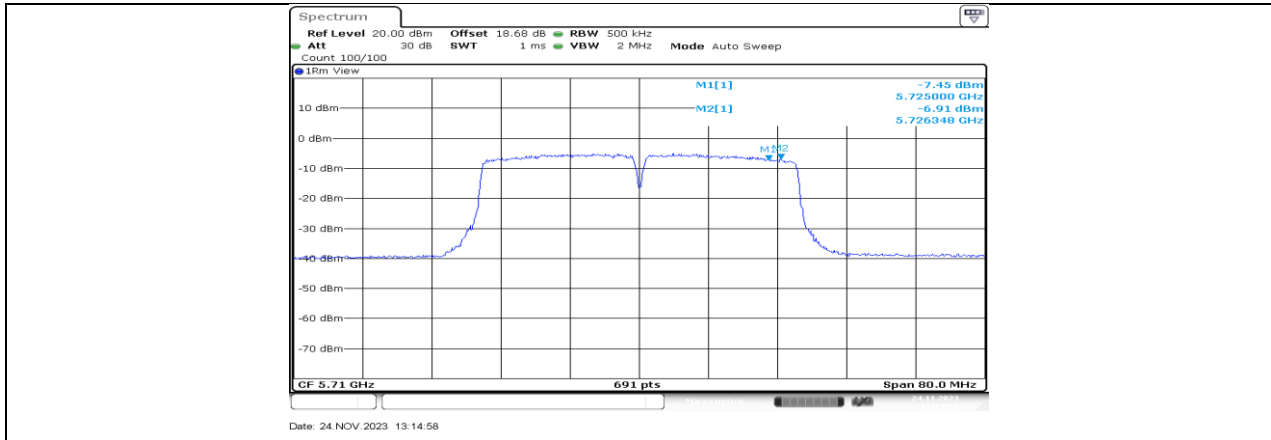


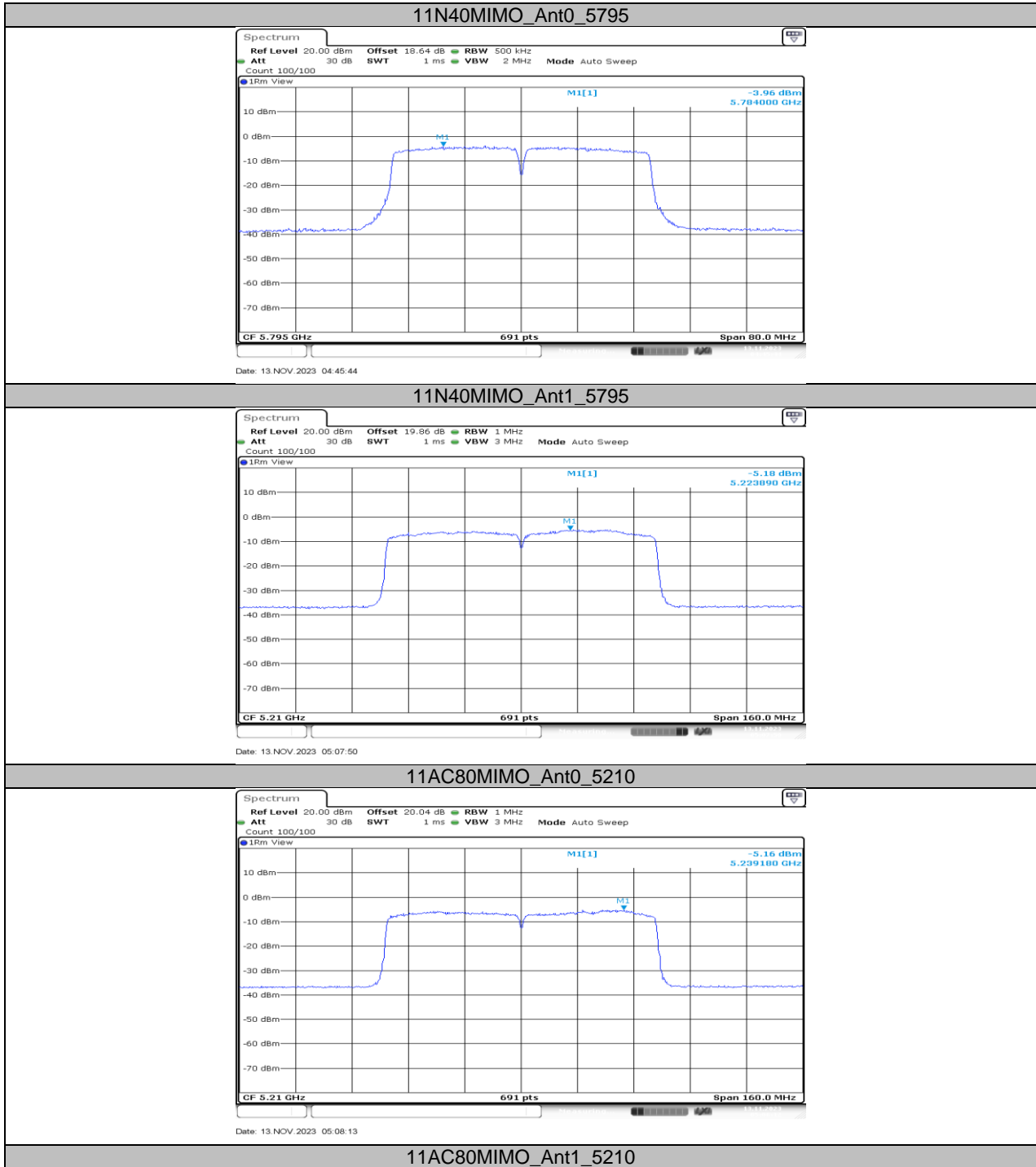
11N40MIMO_Ant0_5670

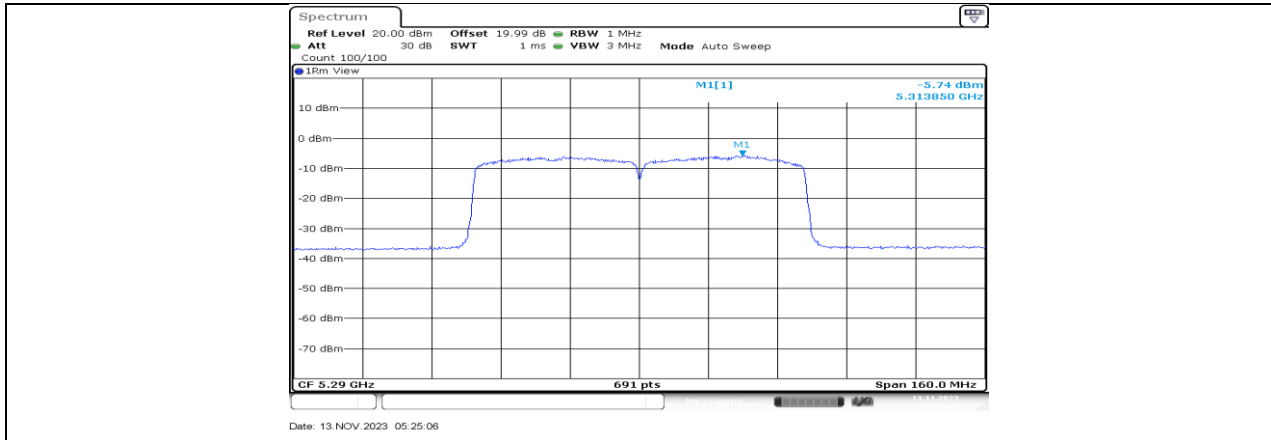




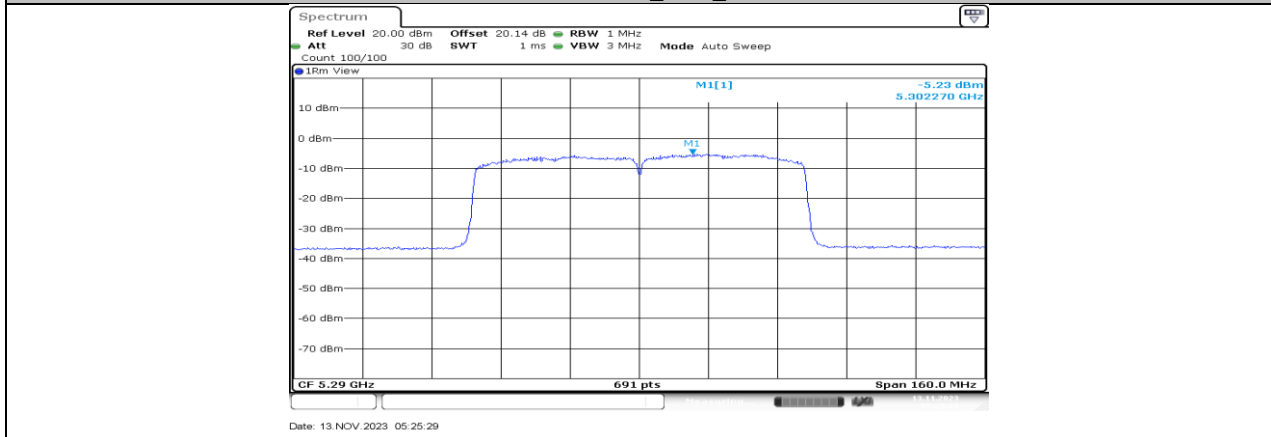
11N40MIMO_Ant0_5710_UNII-3



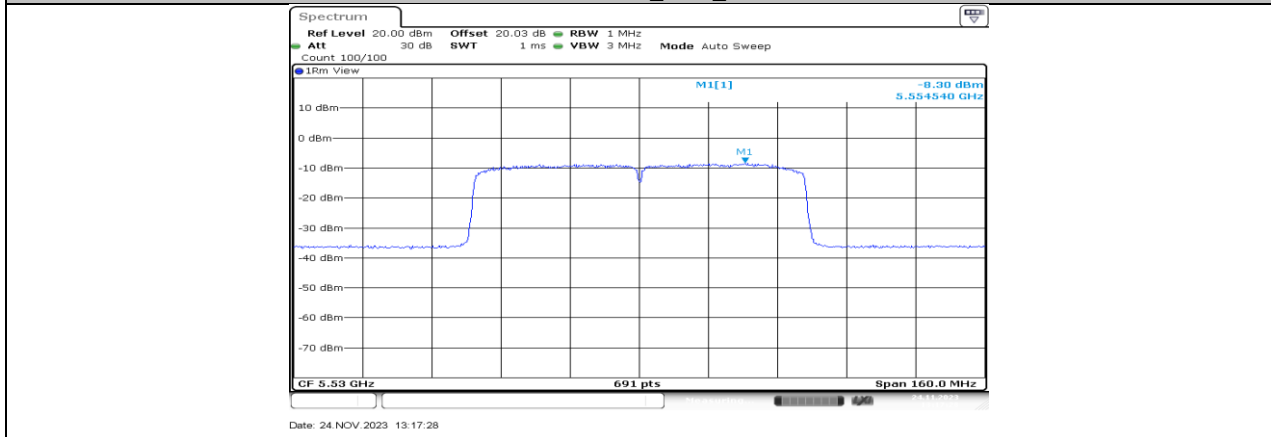




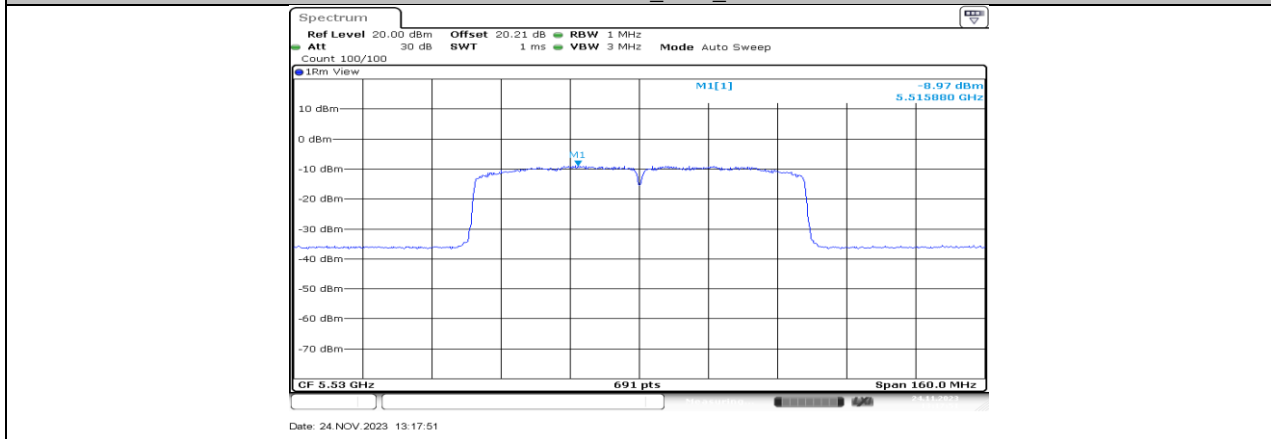
11AC80MIMO_Ant0_5290

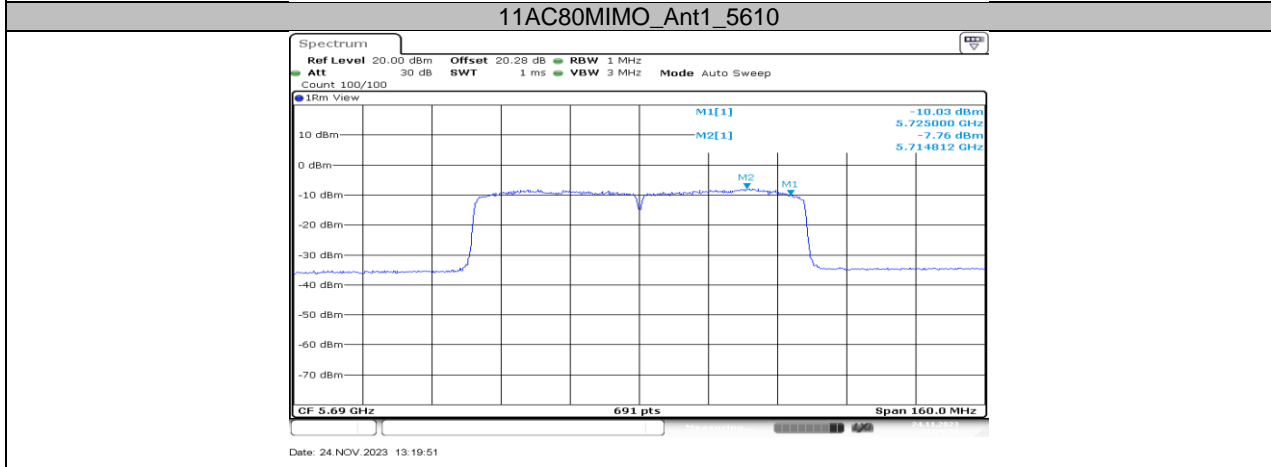
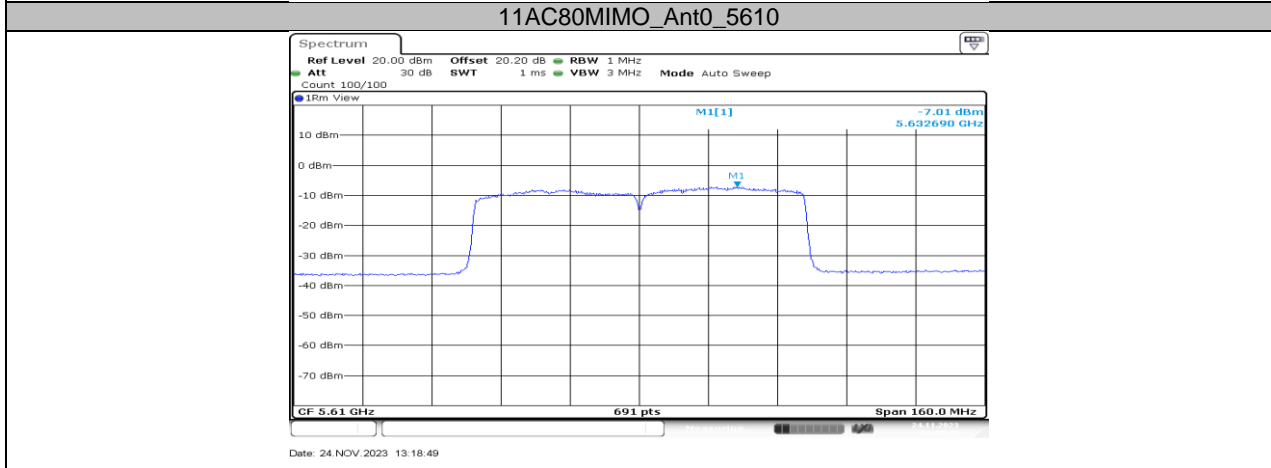
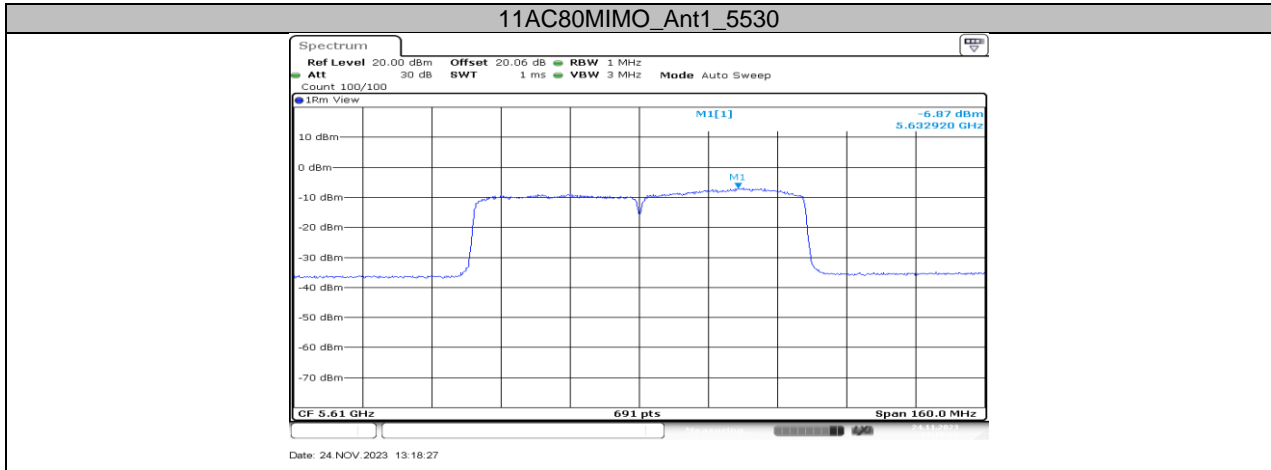


11AC80MIMO_Ant1_5290

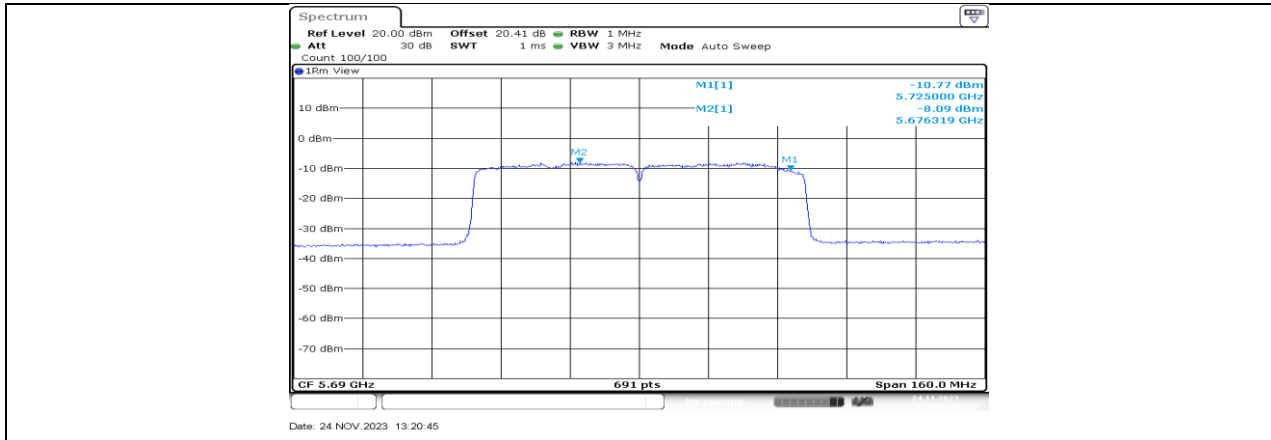


11AC80MIMO_Ant0_5530

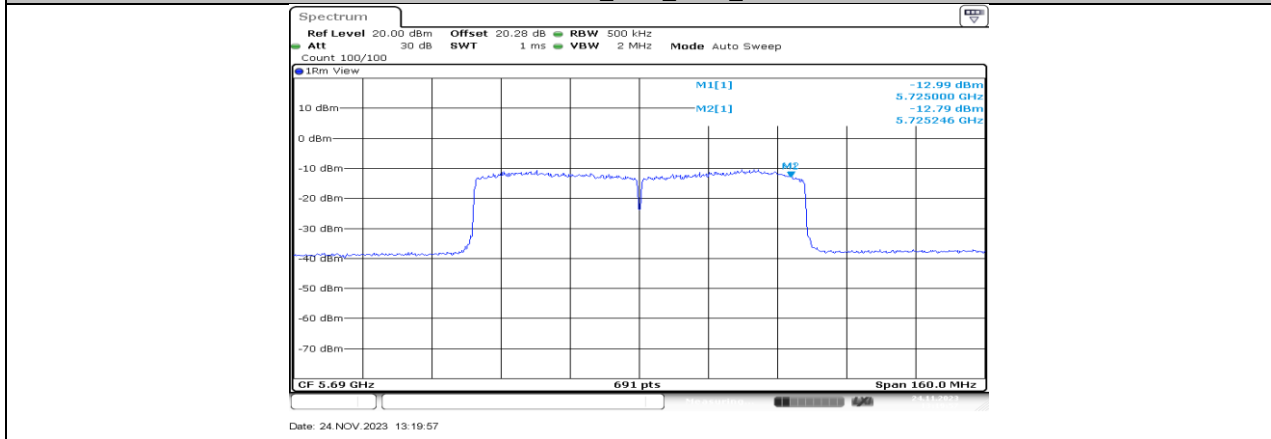




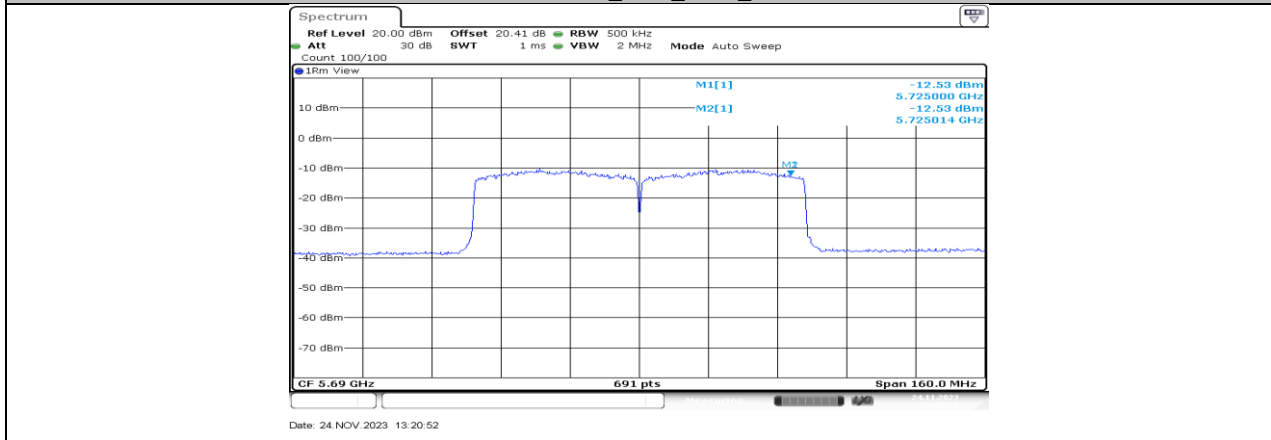
11AC80MIMO_Ant0_5690_UNII-2C



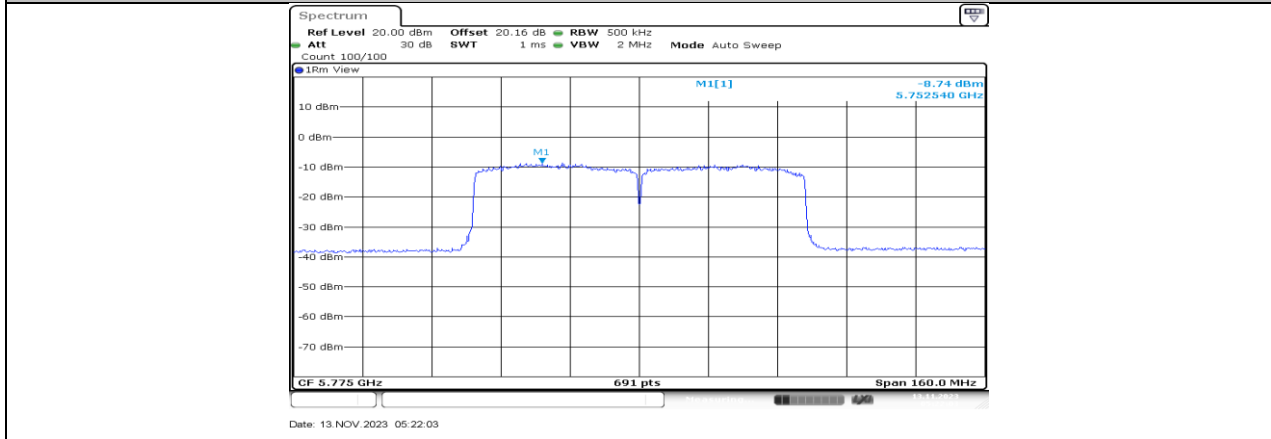
11AC80MIMO_Ant1_5690_UNII-2C

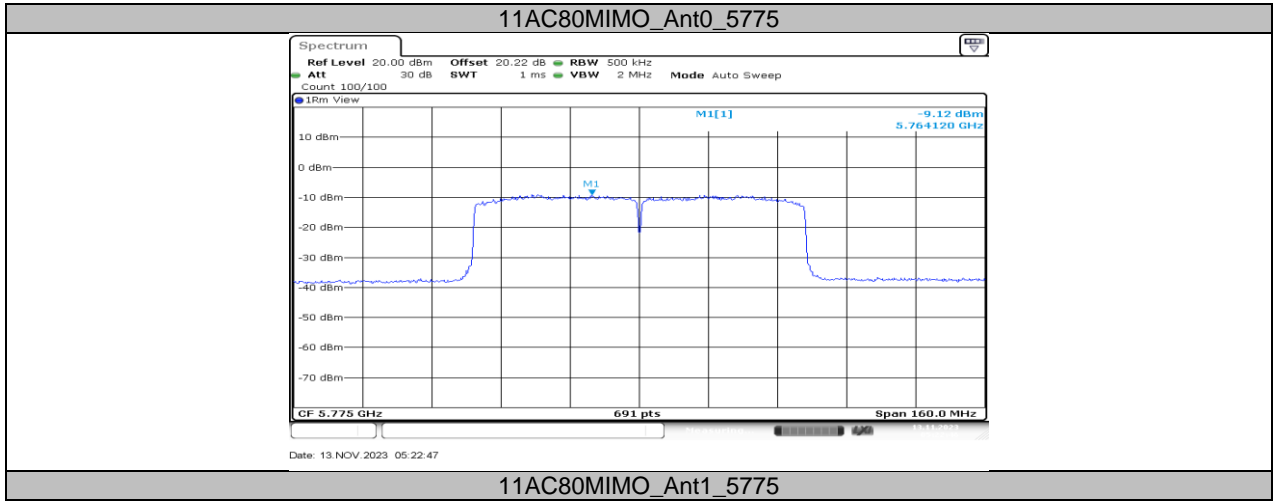


11AC80MIMO_Ant0_5690_UNII-3



11AC80MIMO_Ant1_5690_UNII-3





11.5. APPENDIX F: FREQUENCY STABILITY

11.5.1. Test Result

| Frequency Error vs. Voltage | | | | | | | | | |
|-----------------------------|-------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 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) |
| TN | VL | 5200.0058 | 1.11 | 5200.0026 | 0.49 | 5200.0055 | 1.06 | 5200.0139 | 2.68 |
| TN | VN | 5199.9903 | -1.87 | 5199.9832 | -3.23 | 5200.0002 | 0.03 | 5200.0244 | 4.68 |
| TN | VH | 5199.9777 | -4.28 | 5200.0117 | 2.24 | 5199.9768 | -4.47 | 5200.0047 | 0.90 |

| 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 | 5199.9958 | -0.81 | 5200.0205 | 3.94 | 5199.9852 | -2.84 | 5200.0243 | 4.67 |
| 60 | VN | 5199.9969 | -0.59 | 5200.0143 | 2.74 | 5200.0060 | 1.16 | 5200.0221 | 4.24 |
| 50 | VN | 5200.0058 | 1.12 | 5199.9791 | -4.02 | 5199.9808 | -3.69 | 5200.0085 | 1.63 |
| 40 | VN | 5199.9825 | -3.36 | 5199.9830 | -3.27 | 5200.0207 | 3.97 | 5200.0020 | 0.38 |
| 30 | VN | 5199.9976 | -0.46 | 5199.9895 | -2.01 | 5200.0150 | 2.88 | 5200.0003 | 0.05 |
| 20 | VN | 5199.9996 | -0.08 | 5200.0231 | 4.45 | 5199.9858 | -2.73 | 5200.0081 | 1.55 |
| 10 | VN | 5199.9942 | -1.11 | 5199.9895 | -2.01 | 5200.0185 | 3.57 | 5199.9812 | -3.62 |
| 0 | VN | 5200.0155 | 2.98 | 5200.0064 | 1.22 | 5200.0114 | 2.18 | 5200.0222 | 4.27 |

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 7.5 TEST ENVIRONMENT.

11.6. APPENDIX G: DUTY CYCLE

11.6.1. 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 | 1.36 | 1.87 | 0.7273 | 72.73 | 1.38 | 0.74 | 1 |
| 11N20MIMO | 1.28 | 1.78 | 0.7191 | 71.91 | 1.43 | 0.78 | 1 |
| 11N40MIMO | 0.63 | 1.13 | 0.5575 | 55.75 | 2.54 | 1.59 | 2 |
| 11AC80MIMO | 0.31 | 0.82 | 0.3780 | 37.80 | 4.22 | 3.23 | 4 |

Note:

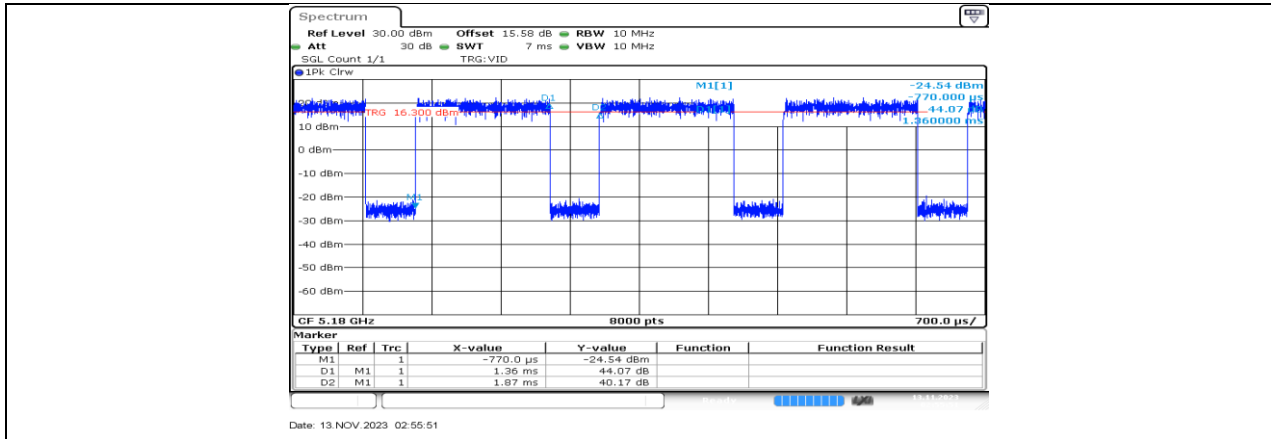
Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

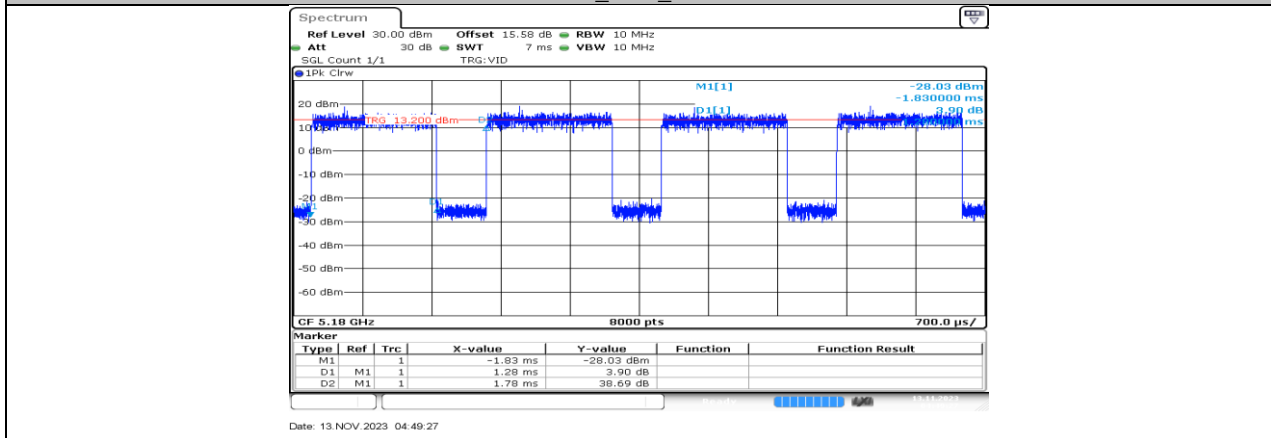
Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

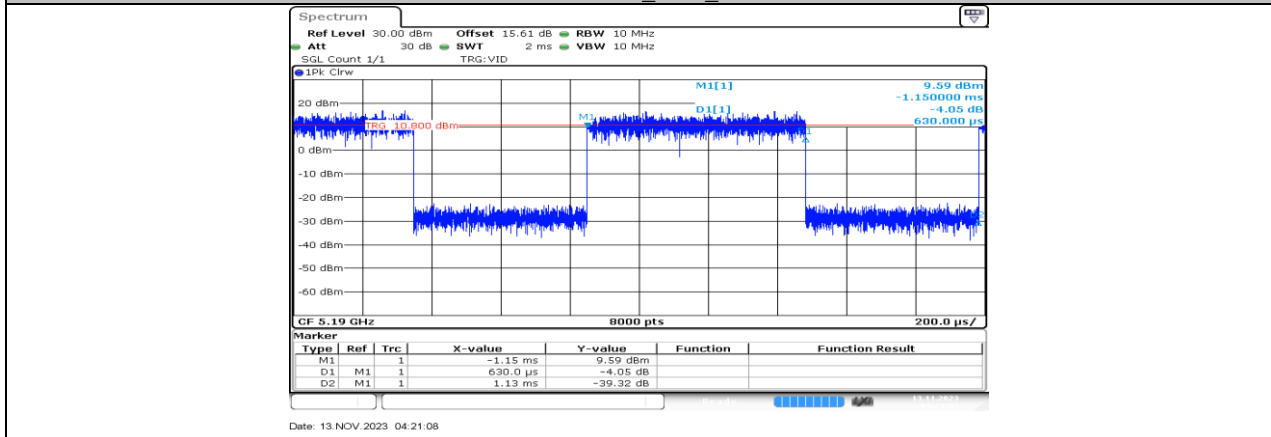
11.6.2. Test Graphs



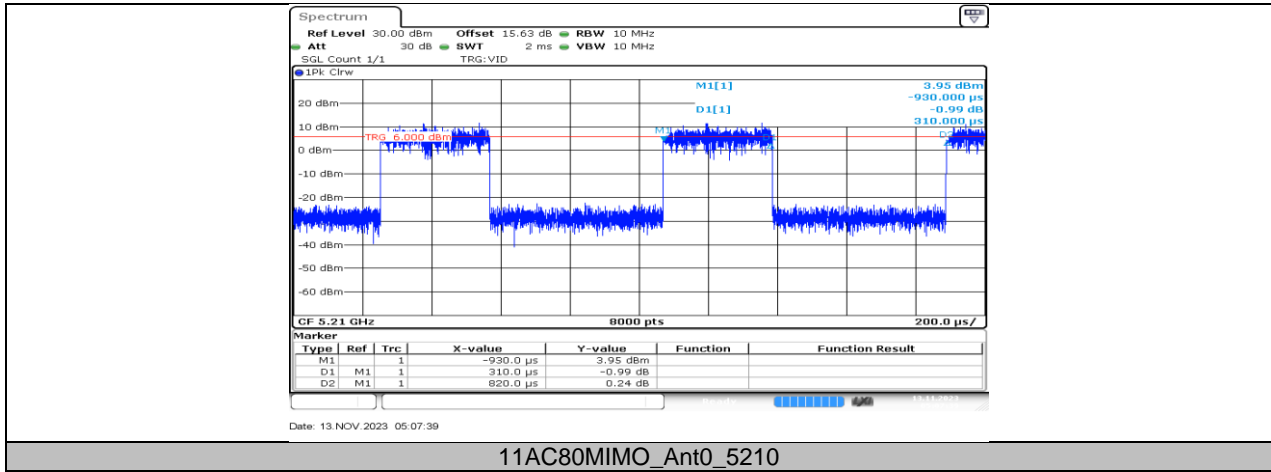
11A_Ant0_5180



11N20MIMO_Ant0_5180



11N40MIMO_Ant0_5190

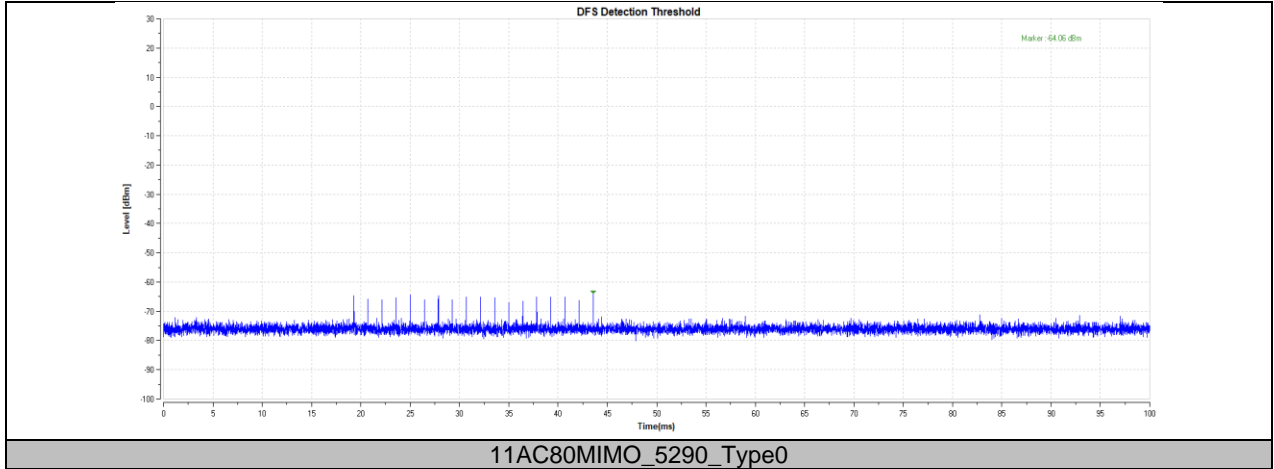


11.7. APPENDIX H: DFS DETECTION THRESHOLDS

11.7.1. Test Result

| Test Mode | Frequency[MHz] | Radar Type | Result | Verdict |
|------------|----------------|------------|--------|---------|
| 11AC80MIMO | 5290 | Type0 | -64.06 | PASS |

11.7.1. Test Graphs



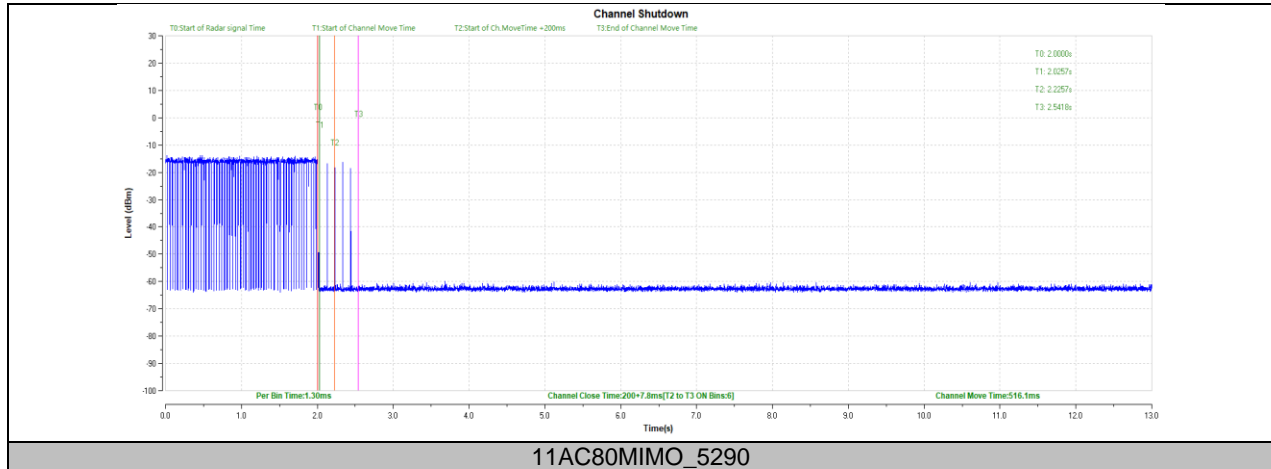
11.8. APPENDIX I: CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

11.8.1. Test Result

| Test Mode | Frequency[MHz] | CCT[ms] | Limit[ms] | CMT[ms] | Limit[ms] | Verdict |
|------------|----------------|---------|-----------|---------|-----------|---------|
| 11AC80MIMO | 5290 | 200+7.8 | 200+60 | 516.1 | 10000 | PASS |

Note: All modes have been tested, only the worst data recorded in the report.

11.8.1. Test Graphs



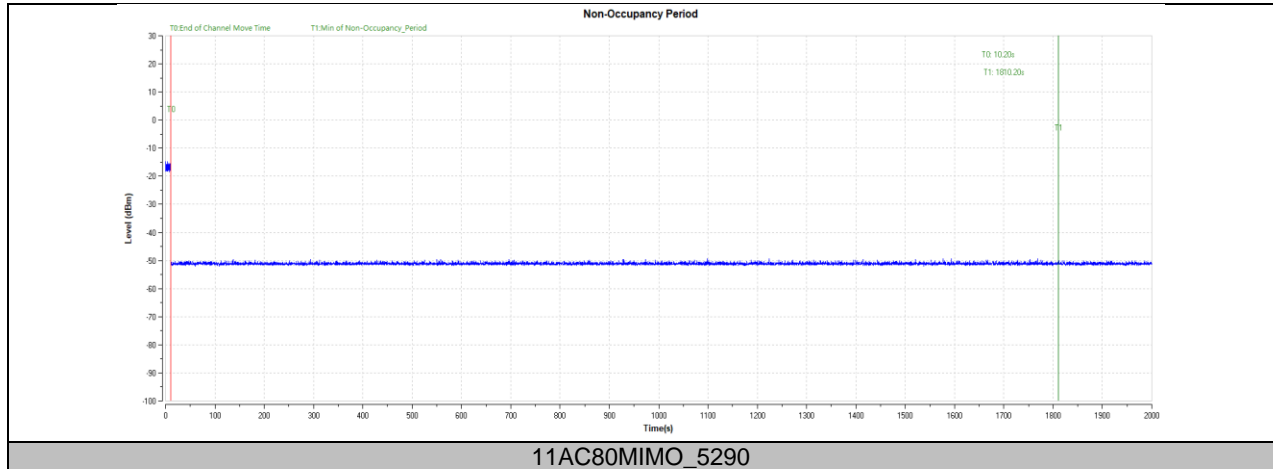
11.9. APPENDIX J: NON-OCCUPANCY PERIOD

Test Result

| Test Mode | Channel | Result | Limit[s] | Verdict |
|------------|---------|----------------|-------------|---------|
| 11AC80MIMO | 5290 | see test graph | ≥ 1800 | PASS |

Note: All modes have been tested, only the worst data recorded in the report.

11.9.1. Test Graphs



END OF REPORT