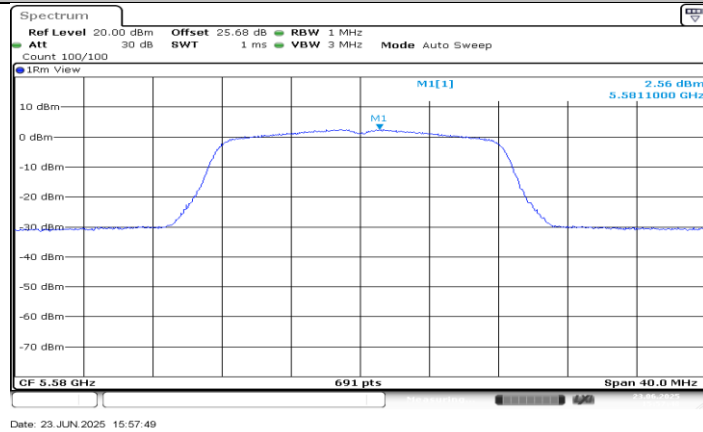
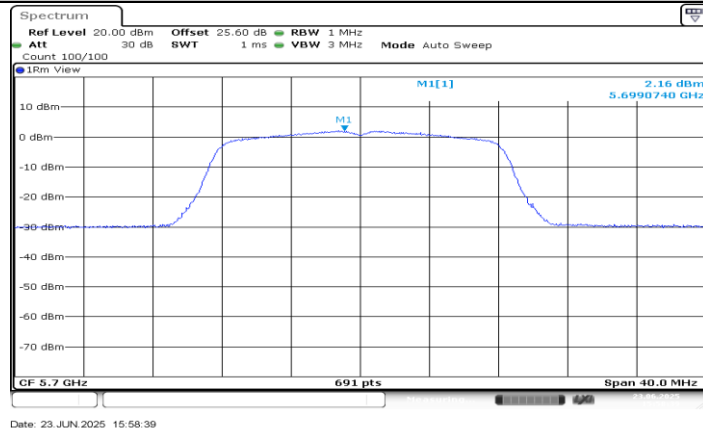


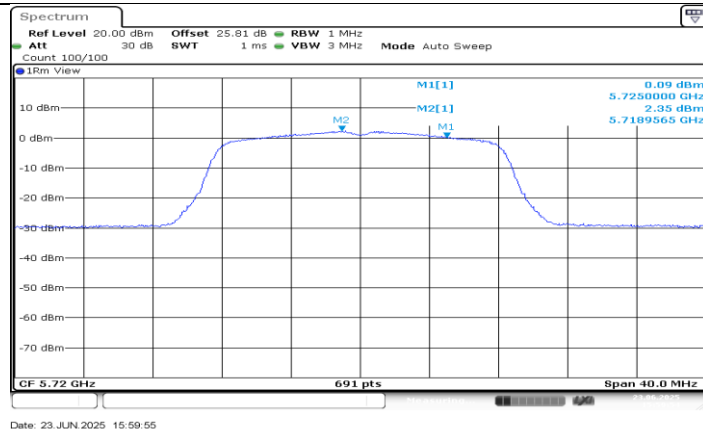
11A_Ant0_5500



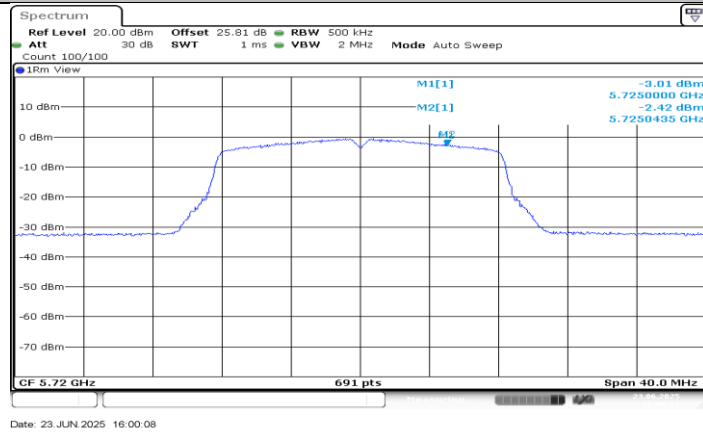
11A_Ant0_5580



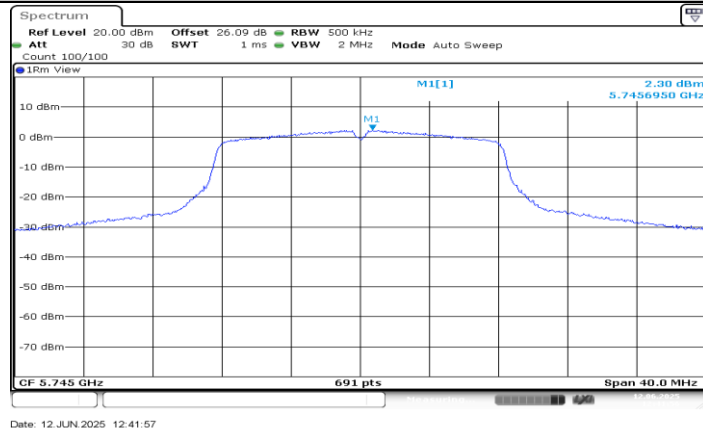
11A_Ant0_5700



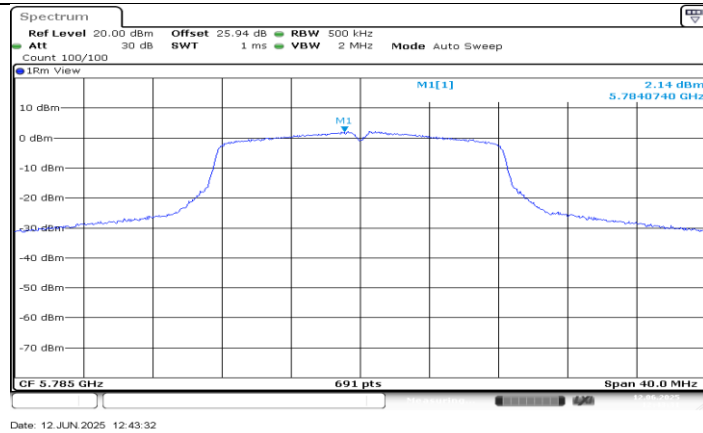
11A_Ant0_5720_UNII-2C



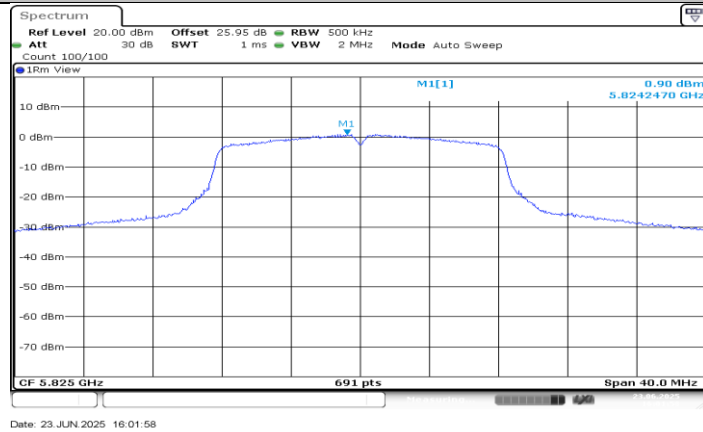
11A_Ant0_5720_UNII-3



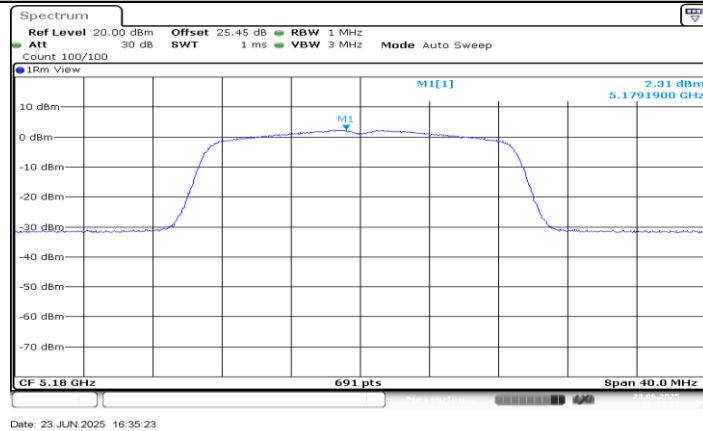
11A_Ant0_5745



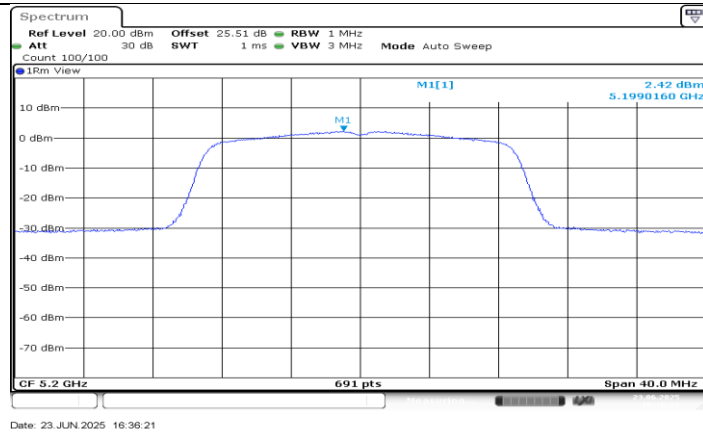
11A_Ant0_5785



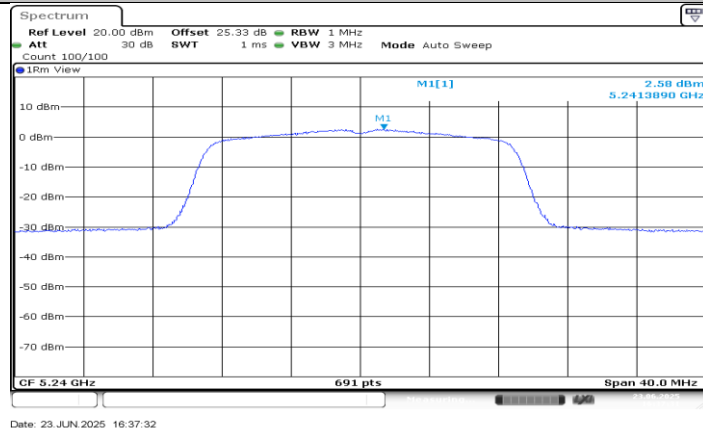
11A_Ant0_5825



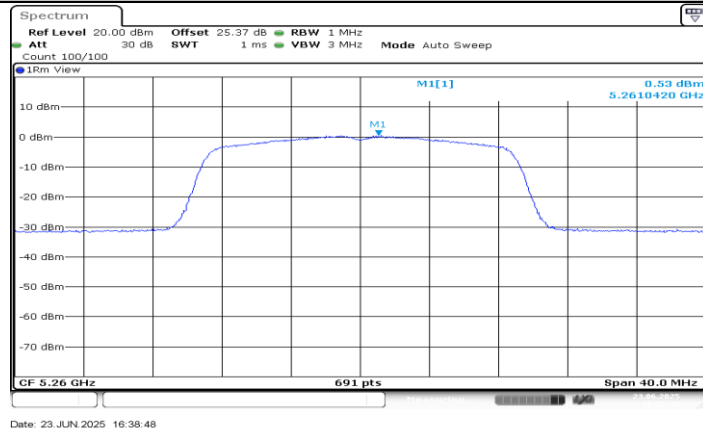
11N20SISO_Ant0_5180



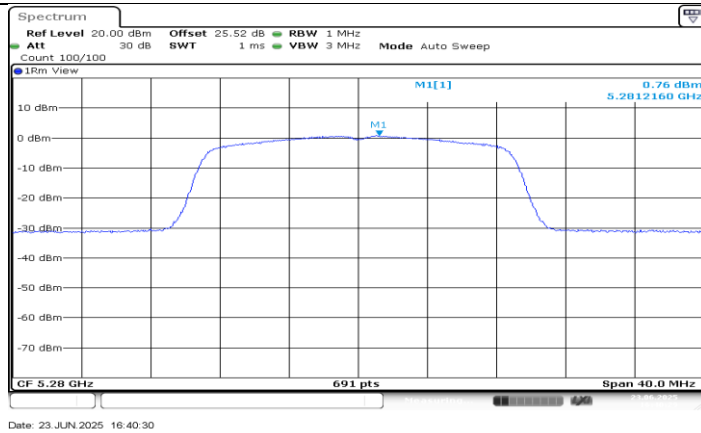
11N20SISO_Ant0_5200



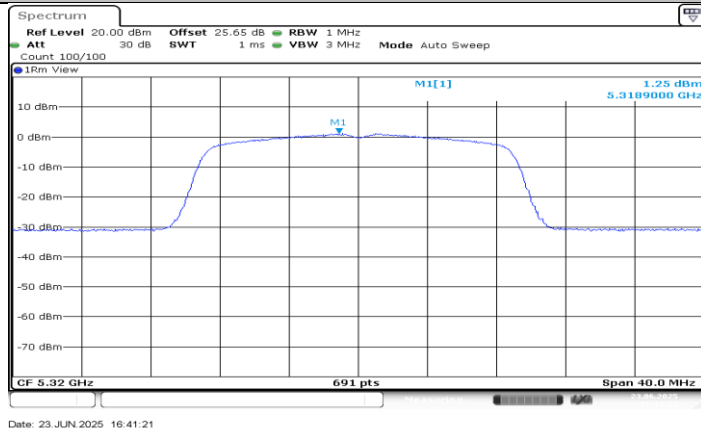
11N20SISO_Ant0_5240



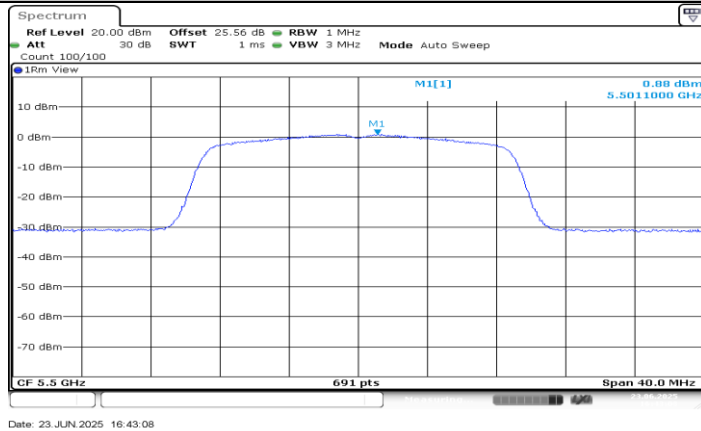
11N20SISO_Ant0_5260



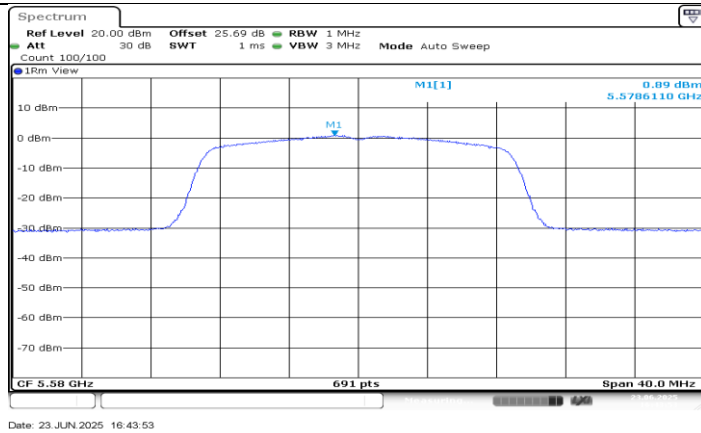
11N20SISO_Ant0_5280



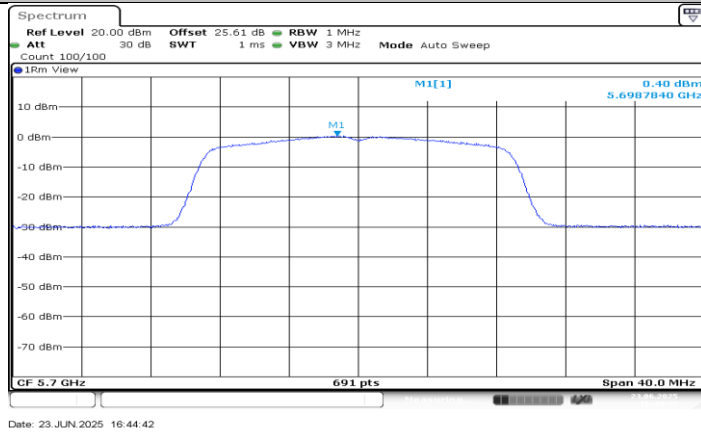
11N20SISO_Ant0_5320



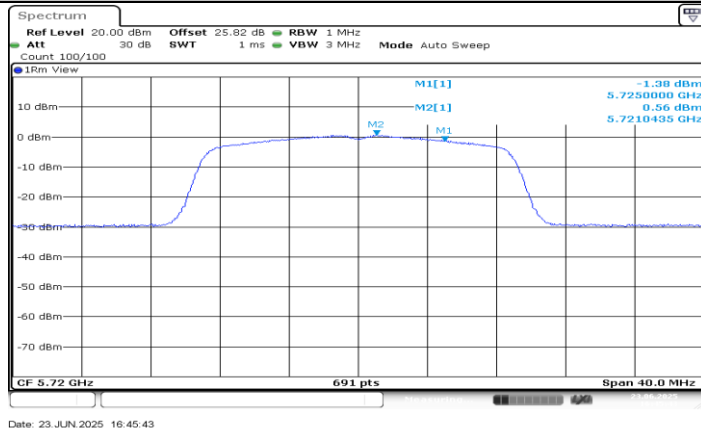
11N20SISO_Ant0_5500



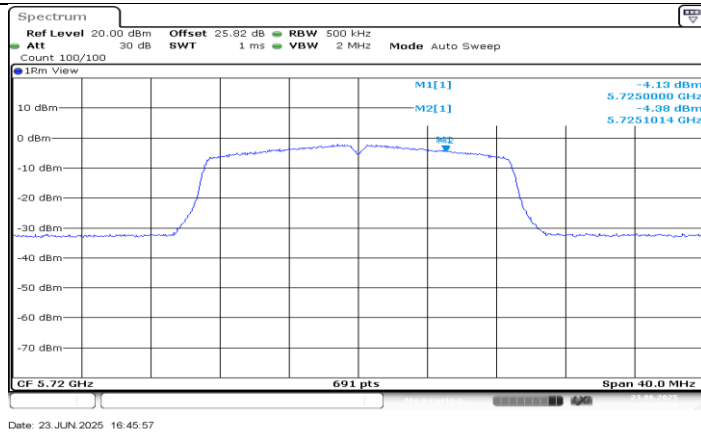
11N20SISO_Ant0_5580



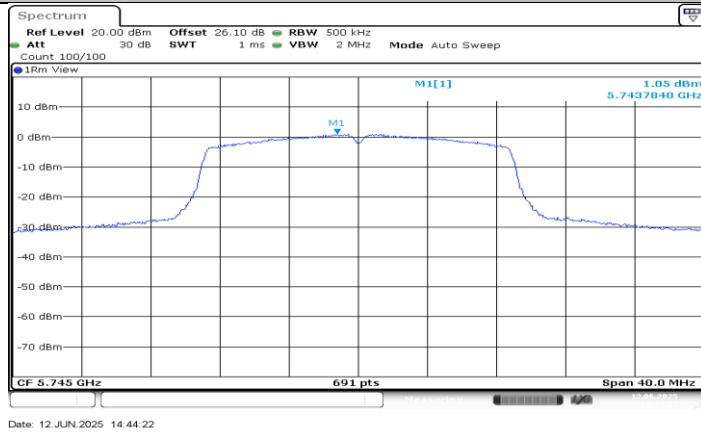
11N20SISO_Ant0_5700



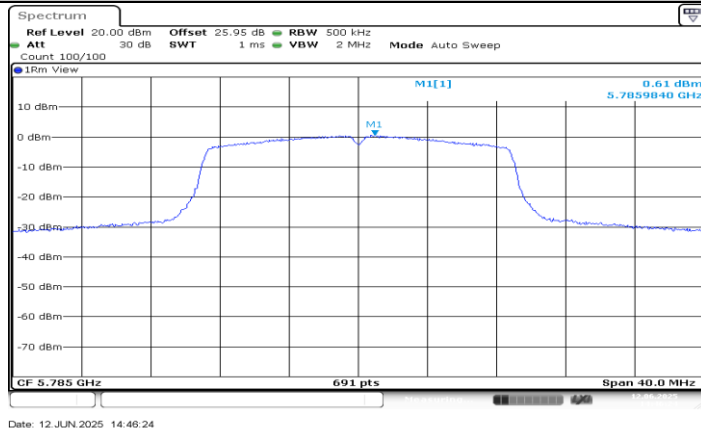
11N20SISO_Ant0_5720_UNII-2C



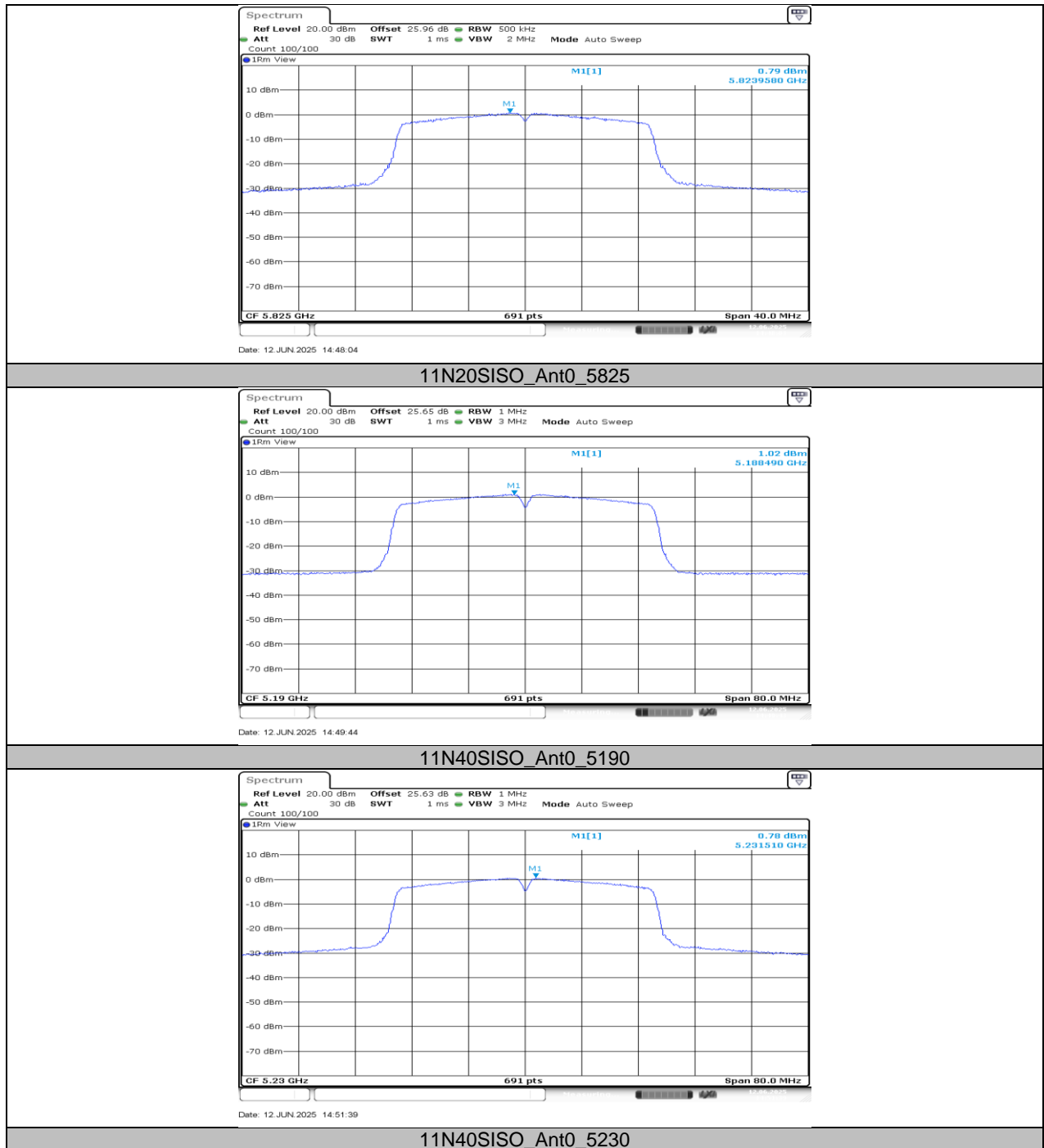
11N20SISO_Ant0_5720_UNII-3

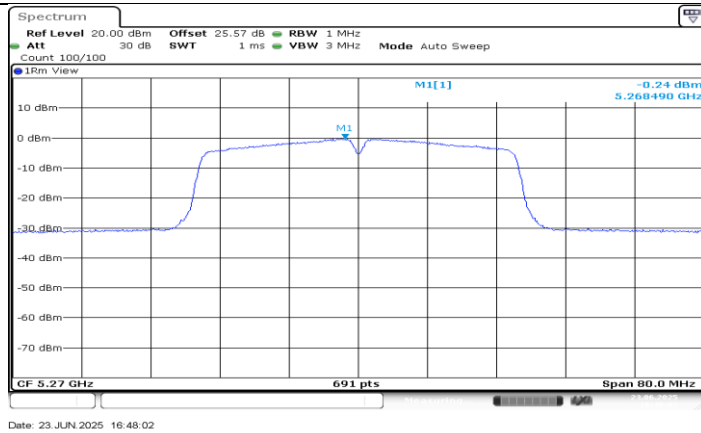


11N20SISO_Ant0_5745

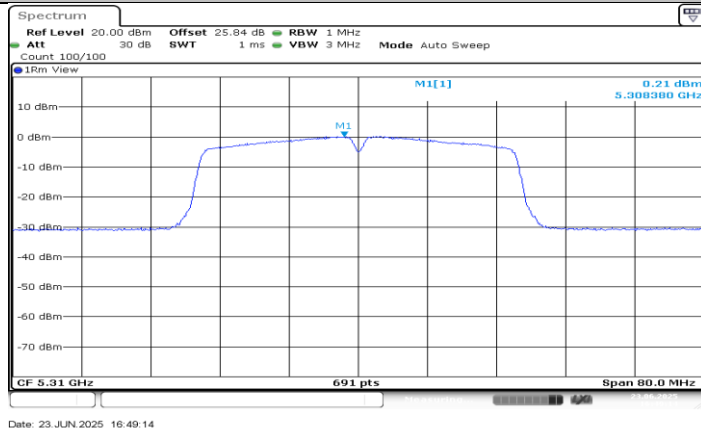


11N20SISO_Ant0_5785

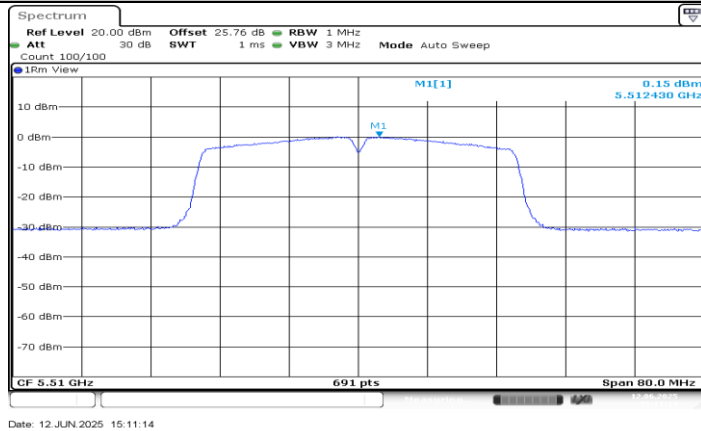




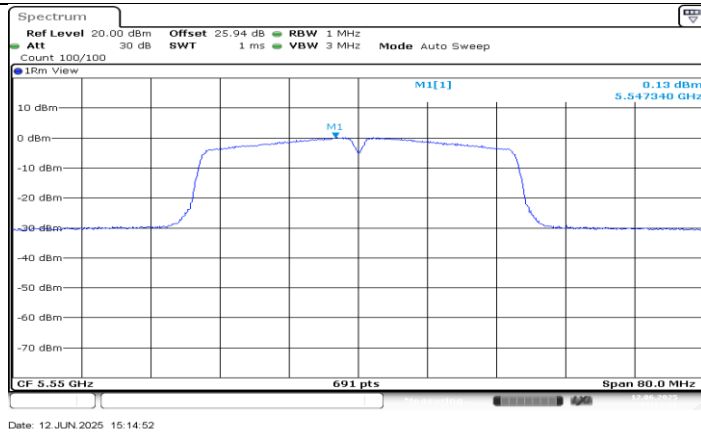
11N40SISO_Ant0_5270



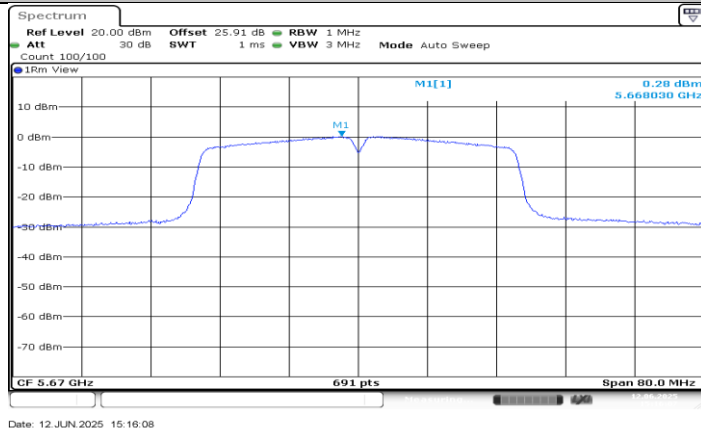
11N40SISO_Ant0_5310



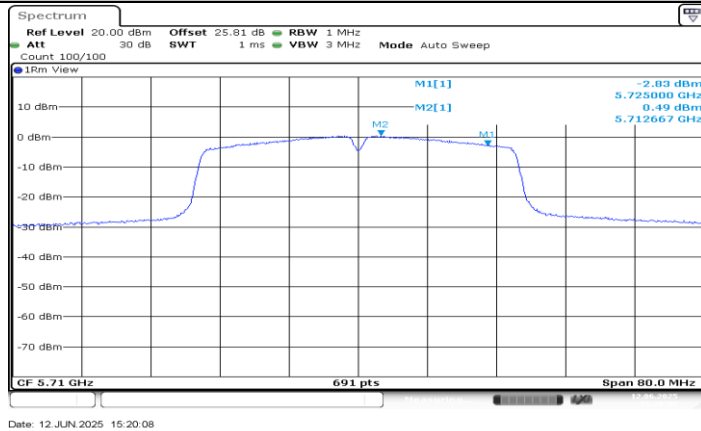
11N40SISO_Ant0_5510



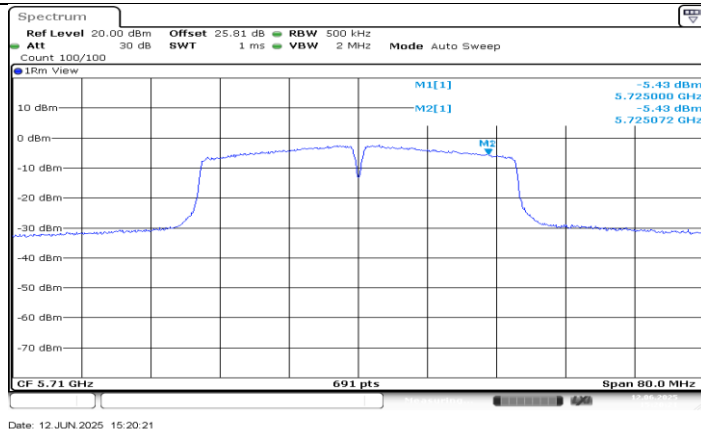
11N40SISO_Ant0_5550



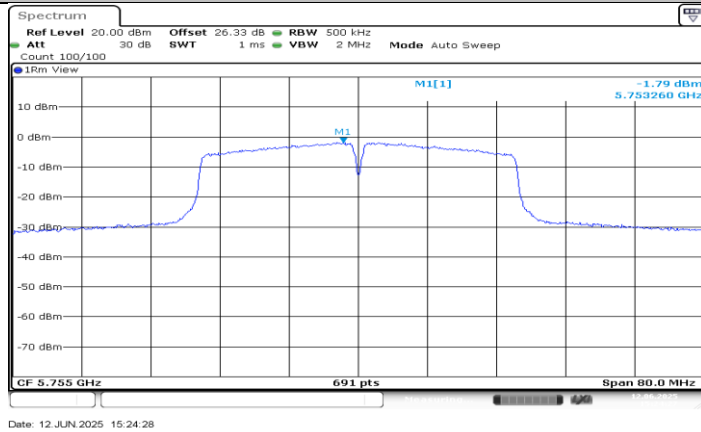
11N40SISO_Ant0_5670



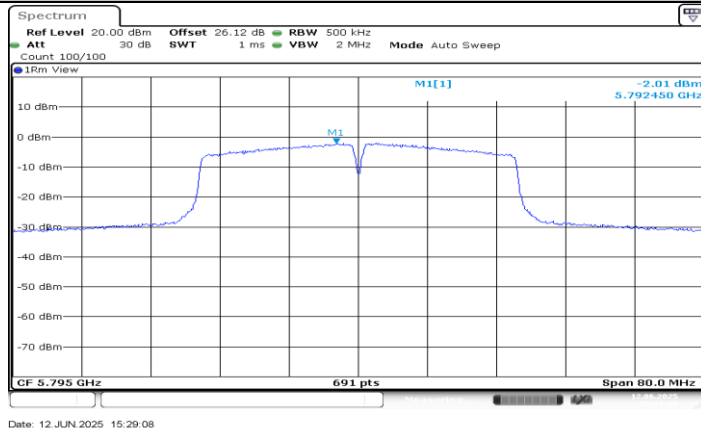
11N40SISO_Ant0_5710_UNII-2C



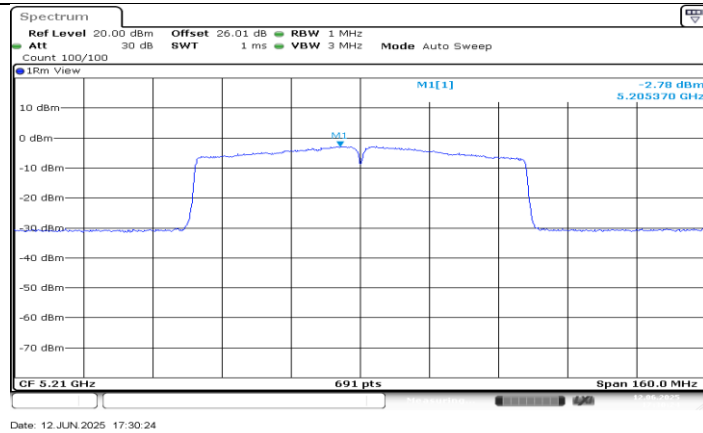
11N40SISO_Ant0_5710_UNII-3



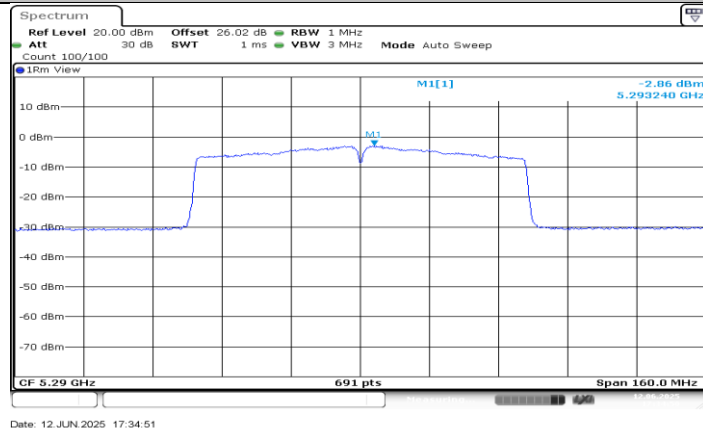
11N40SISO_Ant0_5755



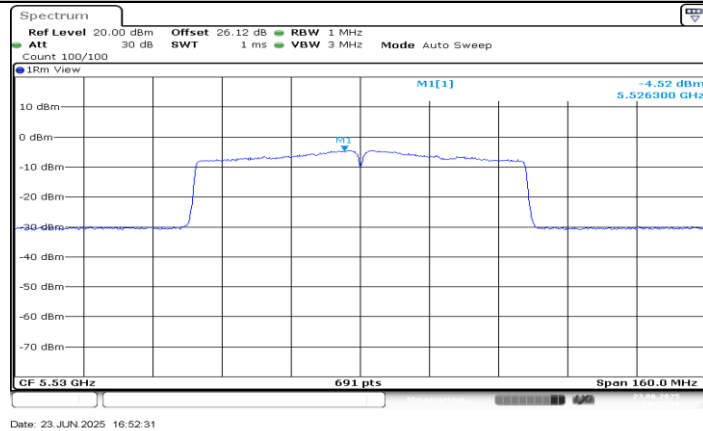
11N40SISO_Ant0_5795



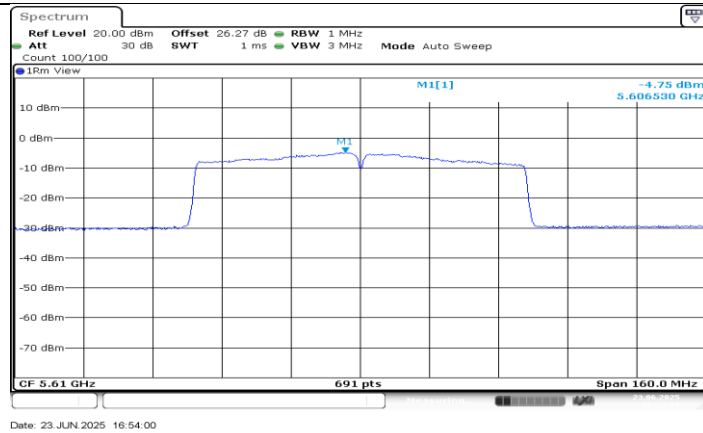
11AC80SISO_Ant0_5210



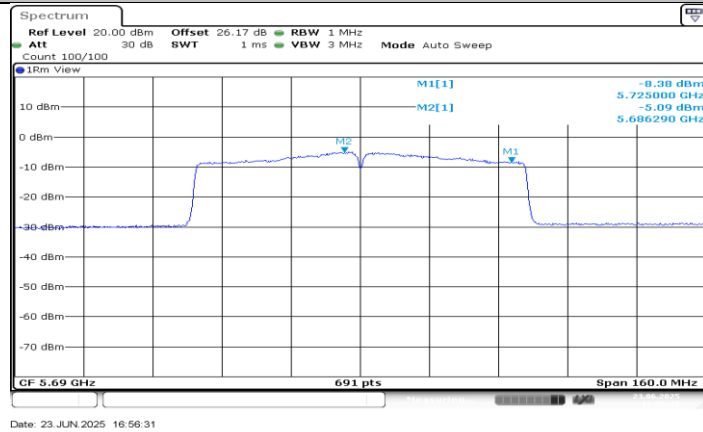
11AC80SISO_Ant0_5290



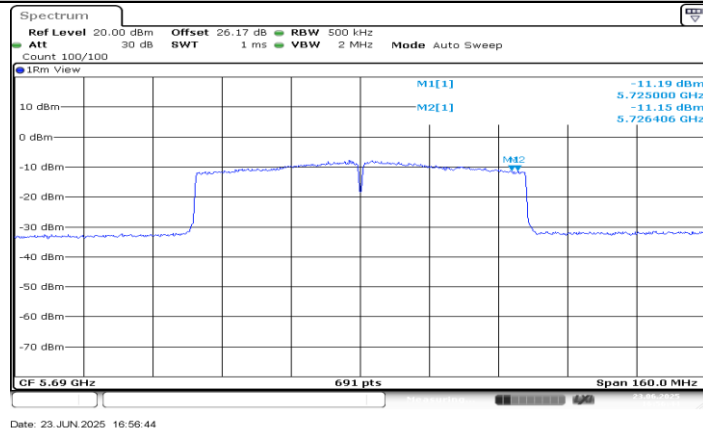
11AC80SISO_Ant0_5530



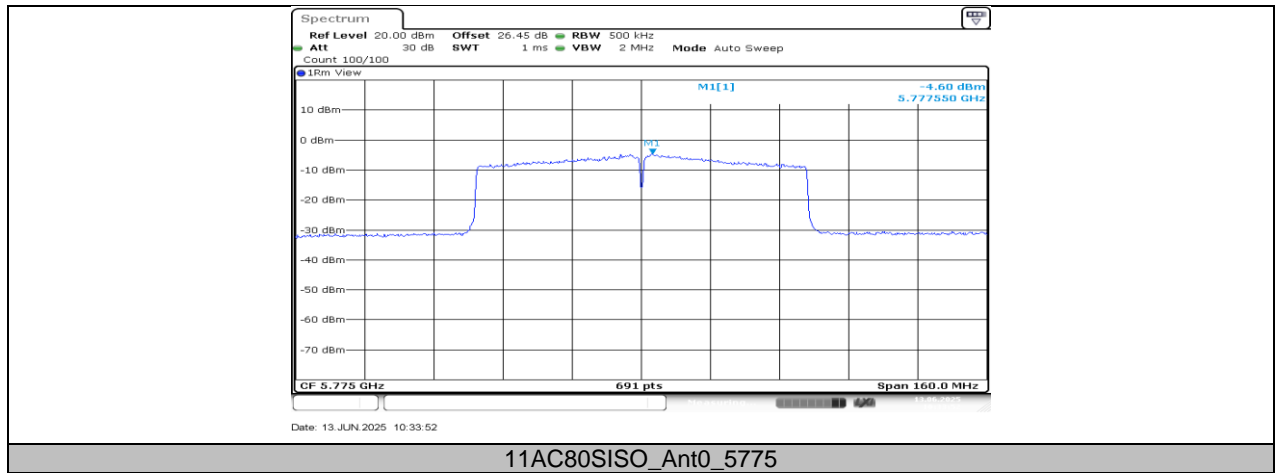
11AC80SISO_Ant0_5610



11AC80SISO_Ant0_5690_UNII-2C



11AC80SISO_Ant0_5690_UNII-3



11.6. APPENDIX F1: FREQUENCY STABILITY

11.6.1. Test Result

| Frequency Error vs. Voltage | | | | | | | | | |
|---------------------------------|-------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 802.11a:5180MHz | | | | | | | | | |
| 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 | 5180.0191 | 3.69 | 5179.9928 | -1.38 | 5180.0091 | 1.75 | 5179.9892 | -2.08 |
| TN | VN | 5180.0123 | 2.37 | 5179.9895 | -2.02 | 5180.0000 | 0.01 | 5179.9973 | -0.52 |
| TN | VH | 5180.0059 | 1.15 | 5180.0001 | 0.01 | 5179.9838 | -3.12 | 5180.0061 | 1.18 |
| Frequency Error vs. Temperature | | | | | | | | | |
| 802.11a:5180MHz | | | | | | | | | |
| 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 | 5180.0239 | 4.62 | 5180.0214 | 4.12 | 5180.0055 | 1.06 | 5180.0159 | 3.07 |
| 60 | VN | 5180.0015 | 0.29 | 5180.0091 | 1.76 | 5179.9780 | -4.25 | 5180.0145 | 2.80 |
| 50 | VN | 5179.9927 | -1.42 | 5180.0177 | 3.42 | 5179.9930 | -1.35 | 5180.0028 | 0.55 |
| 40 | VN | 5180.0222 | 4.29 | 5179.9998 | -0.04 | 5180.0036 | 0.70 | 5180.0222 | 4.29 |
| 30 | VN | 5179.9791 | -4.04 | 5180.0084 | 1.63 | 5179.9832 | -3.24 | 5179.9928 | -1.40 |
| 20 | VN | 5179.9938 | -1.20 | 5180.0002 | 0.04 | 5179.9881 | -2.30 | 5179.9994 | -0.12 |
| 10 | VN | 5179.9983 | -0.34 | 5180.0128 | 2.48 | 5180.0231 | 4.46 | 5179.9797 | -3.92 |
| 0 | VN | 5180.0236 | 4.55 | 5179.9937 | -1.21 | 5180.0129 | 2.49 | 5180.0206 | 3.97 |

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.

| 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 | 5825.0217 | 3.72 | 5825.0156 | 2.68 | 5825.0125 | 2.14 | 5825.0062 | 1.07 |
| TN | VN | 5825.0074 | 1.28 | 5825.0120 | 2.05 | 5824.9932 | -1.17 | 5825.0122 | 2.10 |
| TN | VH | 5824.9917 | -1.43 | 5825.0138 | 2.37 | 5825.0153 | 2.62 | 5824.9939 | -1.05 |
| 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 | 5825.0184 | 3.15 | 5824.9818 | -3.13 | 5825.0148 | 2.54 | 5824.9833 | -2.87 |
| 60 | VN | 5824.9798 | -3.46 | 5825.0207 | 3.55 | 5824.9927 | -1.25 | 5824.9783 | -3.72 |
| 50 | VN | 5825.0128 | 2.20 | 5824.9778 | -3.82 | 5824.9948 | -0.89 | 5825.0237 | 4.06 |
| 40 | VN | 5824.9817 | -3.14 | 5825.0247 | 4.24 | 5825.0066 | 1.13 | 5824.9791 | -3.59 |
| 30 | VN | 5824.9961 | -0.67 | 5825.0108 | 1.86 | 5824.9832 | -2.88 | 5825.0230 | 3.96 |
| 20 | VN | 5825.0200 | 3.44 | 5824.9937 | -1.08 | 5824.9928 | -1.23 | 5824.9871 | -2.21 |
| 10 | VN | 5825.0066 | 1.13 | 5824.9938 | -1.07 | 5824.9960 | -0.69 | 5824.9783 | -3.72 |
| 0 | VN | 5825.0184 | 3.15 | 5824.9818 | -3.13 | 5825.0148 | 2.54 | 5824.9833 | -2.87 |

Note:

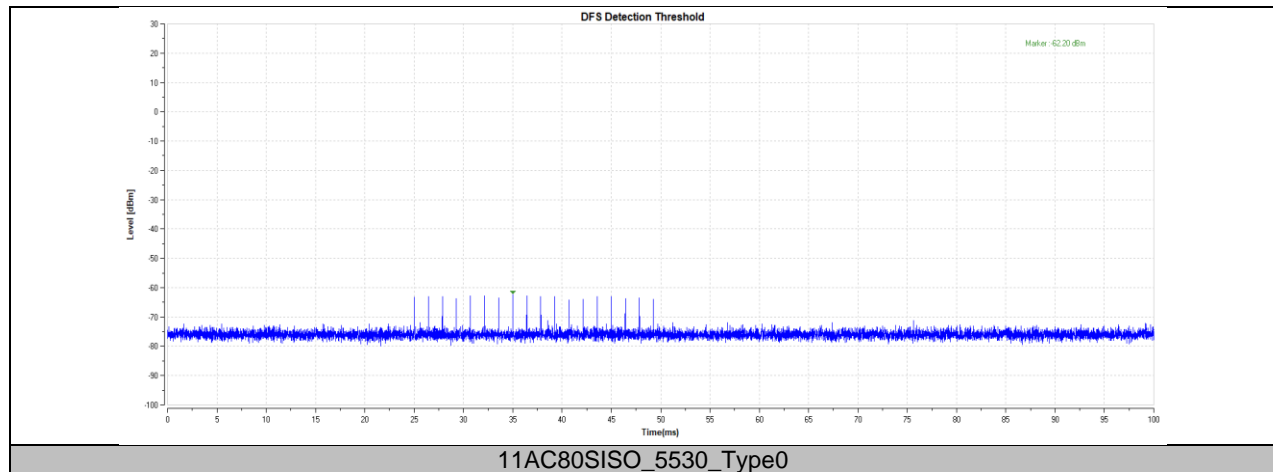
1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

11.7. APPENDIX G1: DFS DETECTION THRESHOLDS

11.7.1. Test Result

| Test Mode | Frequency[MHz] | Radar Type | Result | Verdict |
|------------|----------------|------------|--------|---------|
| 11AC80SISO | 5530 | Type0 | -62.20 | PASS |

11.7.2. Test Graphs

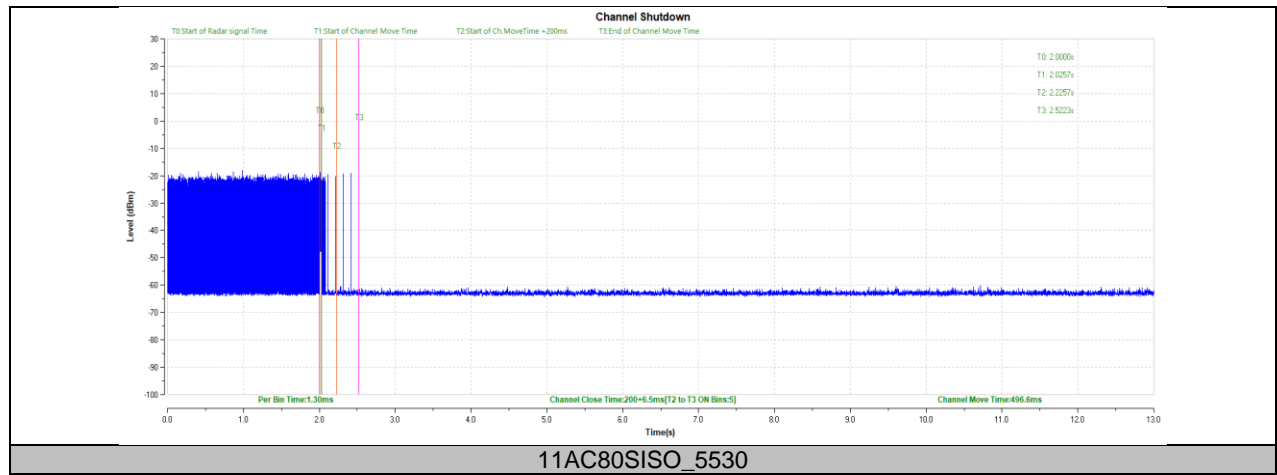


11.8. APPENDIX H1: CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

11.8.1. Test Result

| Test Mode | Frequency[MHz] | CCT[ms] | Limit[ms] | CMT[ms] | Limit[ms] | Verdict |
|------------|----------------|---------|-----------|---------|-----------|---------|
| 11AC80SISO | 5530 | 200+6.5 | 200+60 | 496.6 | 10000 | PASS |

11.8.2. Test Graphs

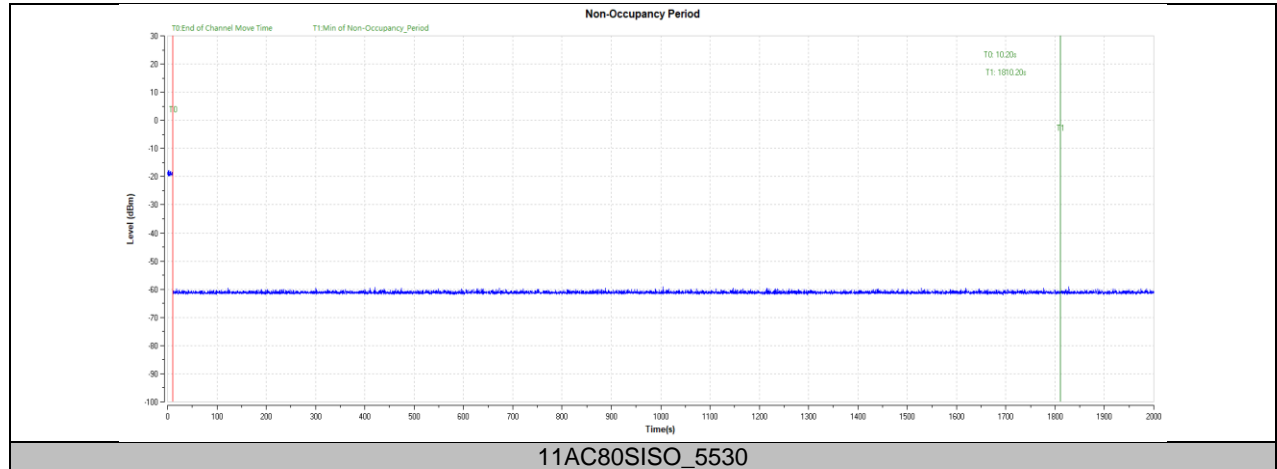


11.9. APPENDIX I1: NON-OCCUPANCY PERIOD

Test Result

| Test Mode | Channel | Result | Limit[s] | Verdict |
|------------|---------|----------------|-------------|---------|
| 11AC80SISO | 5530 | see test graph | ≥ 1800 | PASS |

11.9.1. Test Graphs



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

11.10. APPENDIX J1: DUTY CYCLE

11.10.1. 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 |
| 11N20SISO | 1.29 | 1.33 | 0.9699 | 96.99 | 0.13 | 0.78 | 1 |
| 11N40SISO | 0.64 | 0.69 | 0.9275 | 92.75 | 0.33 | 1.56 | 2 |
| 11AC80SISO | 0.32 | 0.37 | 0.8649 | 86.49 | 0.63 | 3.13 | 4 |

Note:

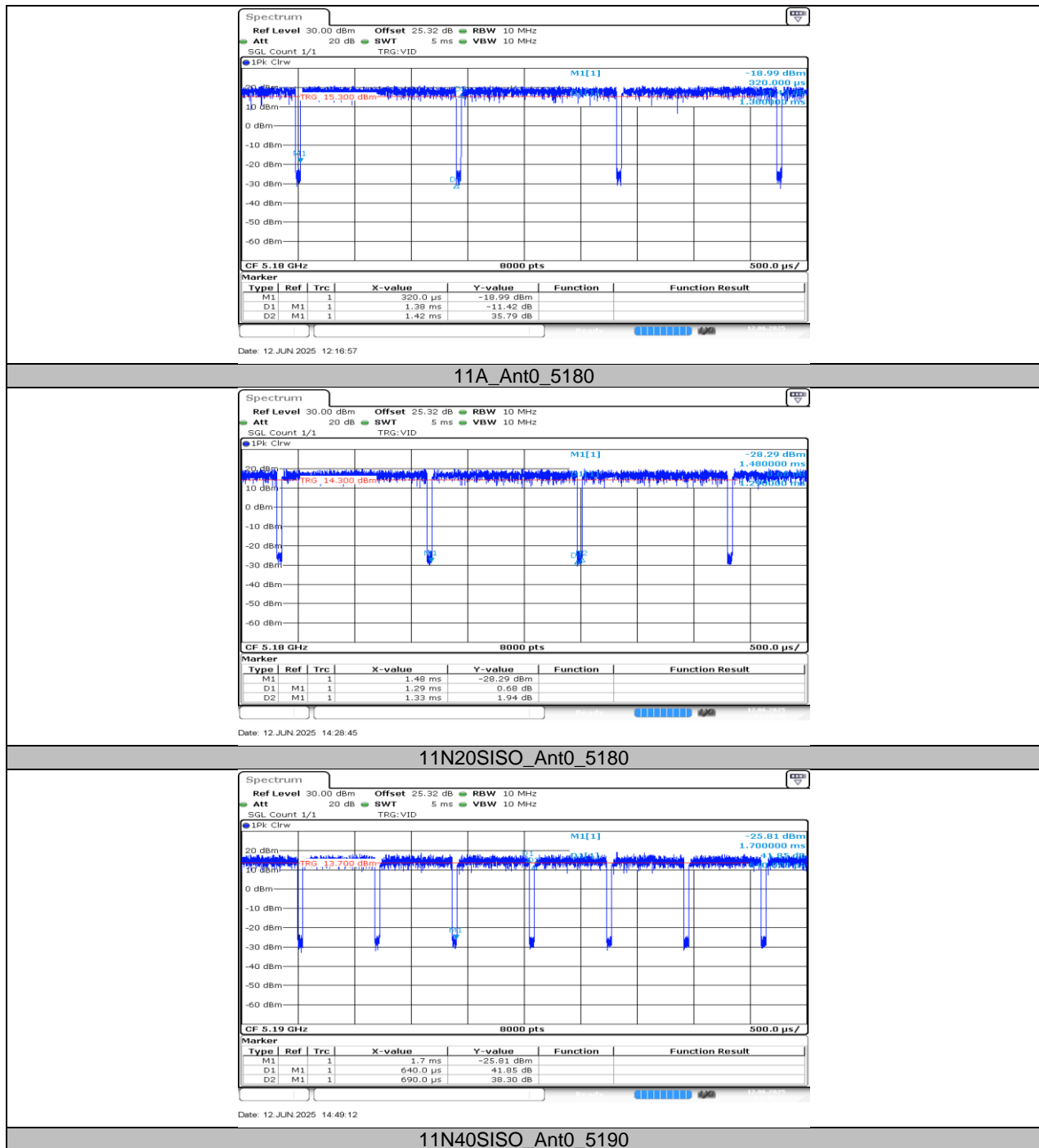
Duty Cycle Correction Factor= $10\log(1/x)$.

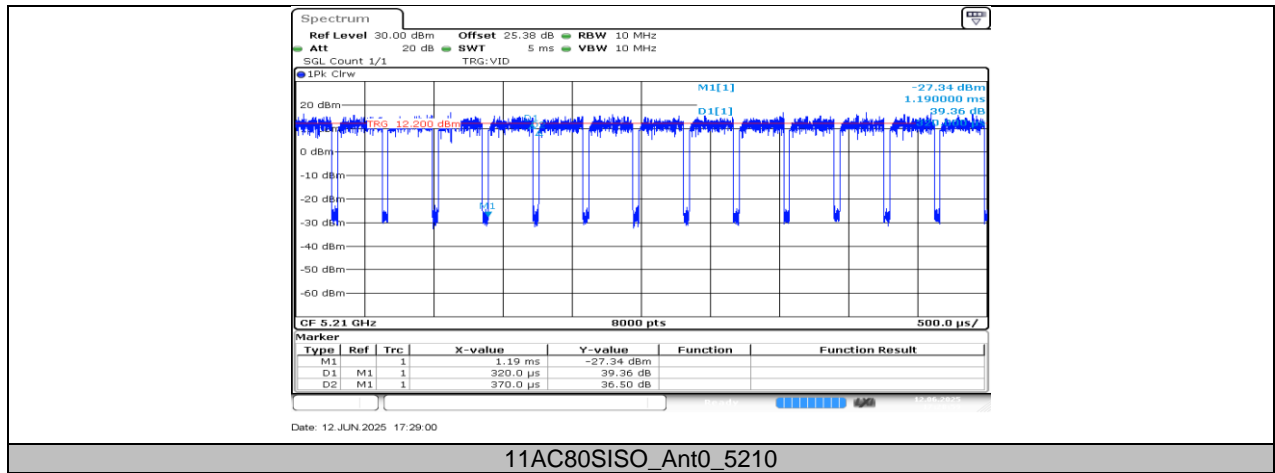
Where: x is Duty Cycle (Linear)

Where: T is On Time

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

11.10.2. Test Graphs





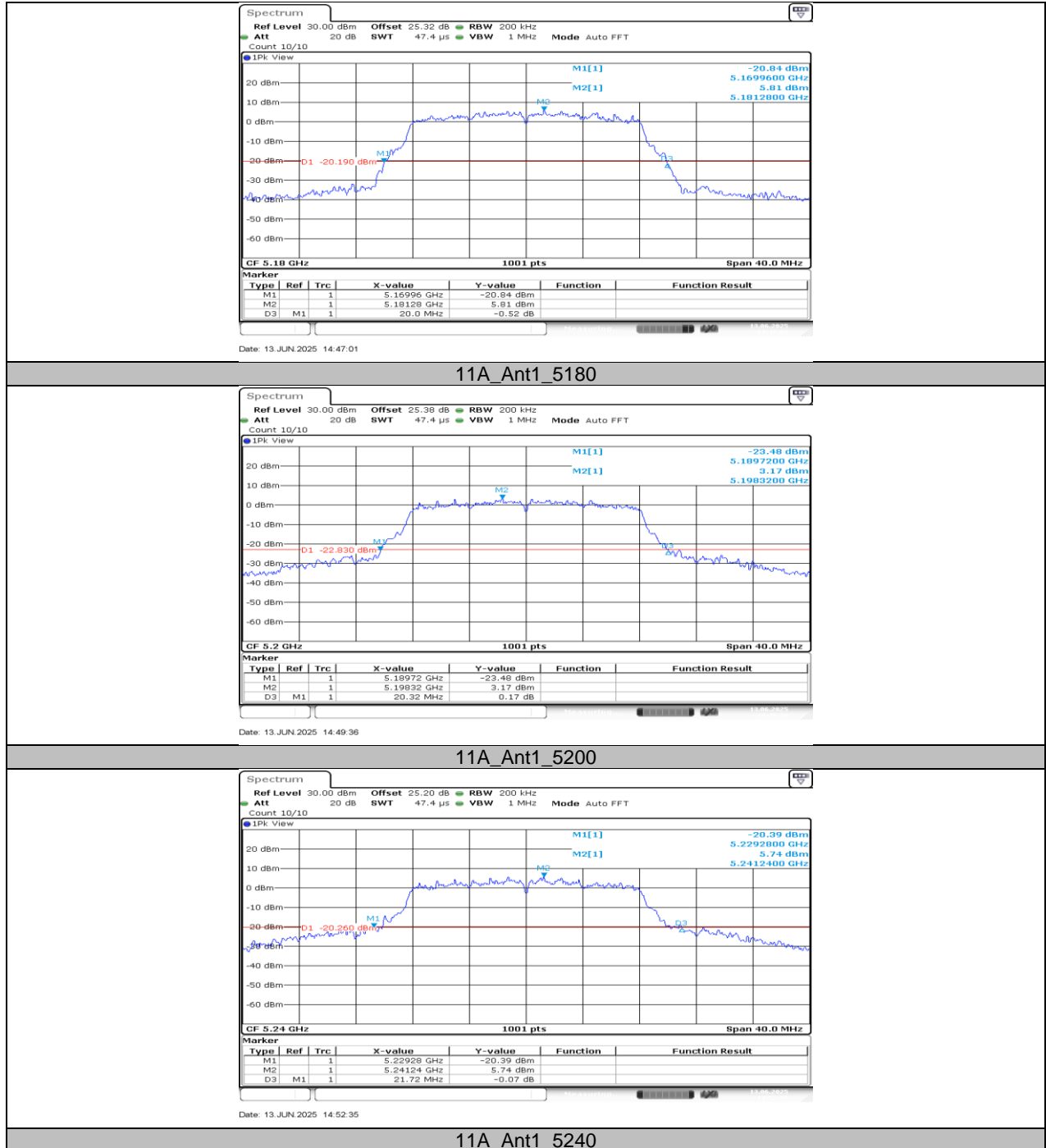
12. TEST DATA for ANT1

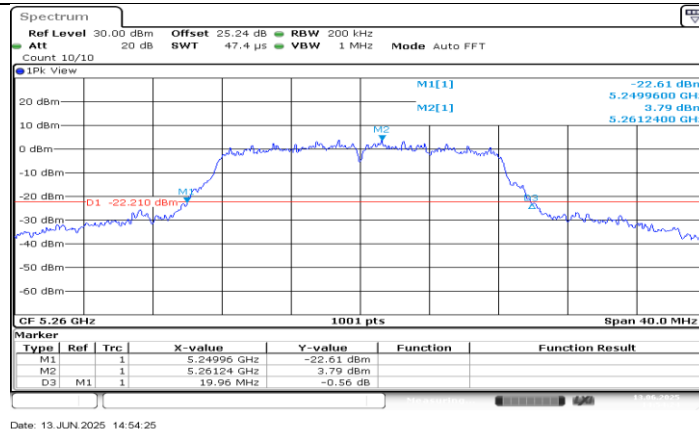
12.1. APPENDIX A2: EMISSION BANDWIDTH

12.1.1. Test Result

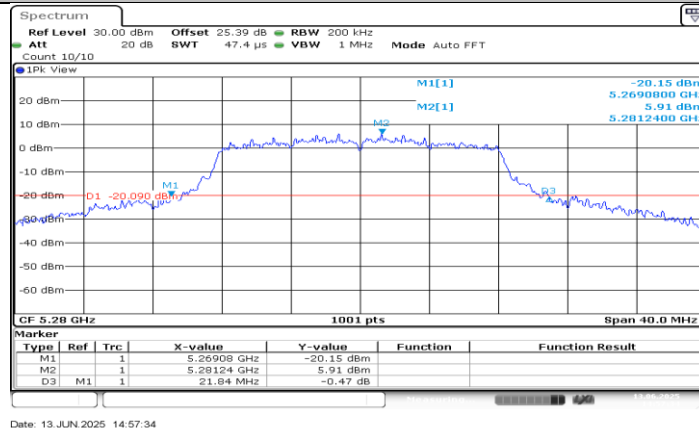
| Test Mode | Antenna | Frequency[MHz] | 26db EBW [MHz] | FL[MHz] | FH[MHz] | Verdict |
|------------|---------|----------------|----------------|---------|---------|---------|
| 11A | Ant1 | 5180 | 20.00 | 5169.96 | 5189.96 | PASS |
| | | 5200 | 20.32 | 5189.72 | 5210.04 | PASS |
| | | 5240 | 21.72 | 5229.28 | 5251.00 | PASS |
| | | 5260 | 19.96 | 5249.96 | 5269.92 | PASS |
| | | 5280 | 21.84 | 5269.08 | 5290.92 | PASS |
| | | 5320 | 20.00 | 5310.00 | 5330.00 | PASS |
| | | 5500 | 20.24 | 5490.08 | 5510.32 | PASS |
| | | 5580 | 20.00 | 5569.96 | 5589.96 | PASS |
| | | 5700 | 20.04 | 5690.00 | 5710.04 | PASS |
| | | 5720 | 20.08 | 5709.96 | 5730.04 | PASS |
| | | 5720_UNII-2C | 15.04 | 5709.96 | 5725 | PASS |
| | | 5720_UNII-3 | 5.04 | 5725 | 5730.04 | PASS |
| | | 5745 | 20.24 | 5734.84 | 5755.08 | PASS |
| | | 5785 | 19.88 | 5775.08 | 5794.96 | PASS |
| 11N20SISO | Ant1 | 5825 | 20.40 | 5814.88 | 5835.28 | PASS |
| | | 5180 | 20.12 | 5170.08 | 5190.20 | PASS |
| | | 5200 | 20.24 | 5189.80 | 5210.04 | PASS |
| | | 5240 | 20.56 | 5229.84 | 5250.40 | PASS |
| | | 5260 | 20.56 | 5249.76 | 5270.32 | PASS |
| | | 5280 | 21.04 | 5269.52 | 5290.56 | PASS |
| | | 5320 | 19.72 | 5310.24 | 5329.96 | PASS |
| | | 5500 | 19.80 | 5490.00 | 5509.80 | PASS |
| | | 5580 | 19.96 | 5569.96 | 5589.92 | PASS |
| | | 5700 | 20.16 | 5689.92 | 5710.08 | PASS |
| | | 5720 | 19.68 | 5710.16 | 5729.84 | PASS |
| | | 5720_UNII-2C | 14.84 | 5710.16 | 5725 | PASS |
| | | 5720_UNII-3 | 4.84 | 5725 | 5729.84 | PASS |
| | | 5745 | 19.88 | 5735.24 | 5755.12 | PASS |
| 11N40SISO | Ant1 | 5785 | 19.88 | 5775.04 | 5794.92 | PASS |
| | | 5825 | 20.20 | 5815.00 | 5835.20 | PASS |
| | | 5190 | 40.80 | 5169.60 | 5210.40 | PASS |
| | | 5230 | 41.76 | 5209.12 | 5250.88 | PASS |
| | | 5270 | 41.76 | 5249.44 | 5291.20 | PASS |
| | | 5310 | 40.88 | 5289.52 | 5330.40 | PASS |
| | | 5510 | 41.20 | 5489.52 | 5530.72 | PASS |
| | | 5550 | 41.20 | 5529.28 | 5570.48 | PASS |
| | | 5670 | 41.04 | 5649.52 | 5690.56 | PASS |
| | | 5710 | 41.44 | 5689.44 | 5730.88 | PASS |
| | | 5710_UNII-2C | 35.56 | 5689.44 | 5725 | PASS |
| 11AC80SISO | Ant1 | 5710_UNII-3 | 5.88 | 5725 | 5730.88 | PASS |
| | | 5755 | 41.36 | 5734.28 | 5775.64 | PASS |
| | | 5795 | 41.68 | 5774.12 | 5815.80 | PASS |
| | | 5210 | 81.76 | 5169.20 | 5250.96 | PASS |
| | | 5290 | 81.12 | 5249.52 | 5330.64 | PASS |
| | | 5530 | 81.76 | 5489.20 | 5570.96 | PASS |
| | | 5610 | 81.28 | 5569.36 | 5650.64 | PASS |
| | | 5690 | 81.92 | 5649.20 | 5731.12 | PASS |
| | | 5690_UNII-2C | 75.8 | 5649.20 | 5725 | PASS |
| | | 5690_UNII-3 | 6.12 | 5725 | 5731.12 | PASS |
| | | 5775 | 81.44 | 5734.20 | 5815.64 | PASS |
| | | | | | | |

12.1.2. Test Graphs

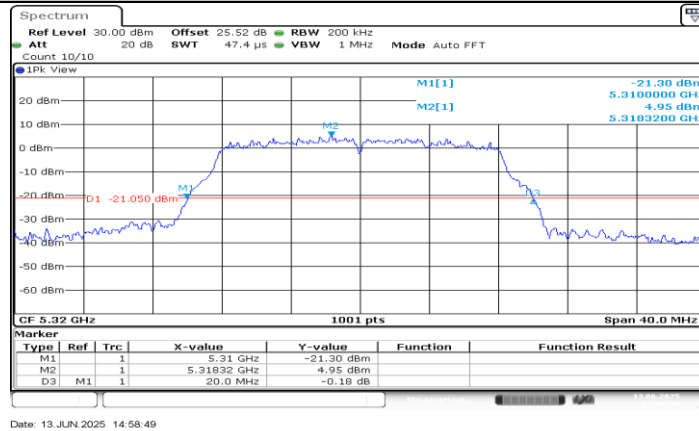




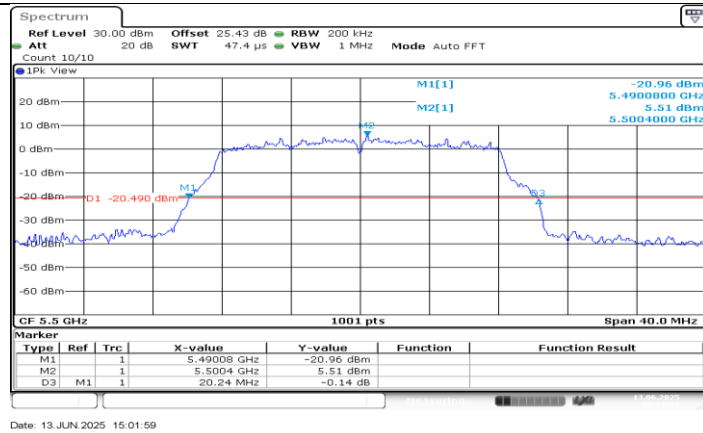
11A_Ant1_5260



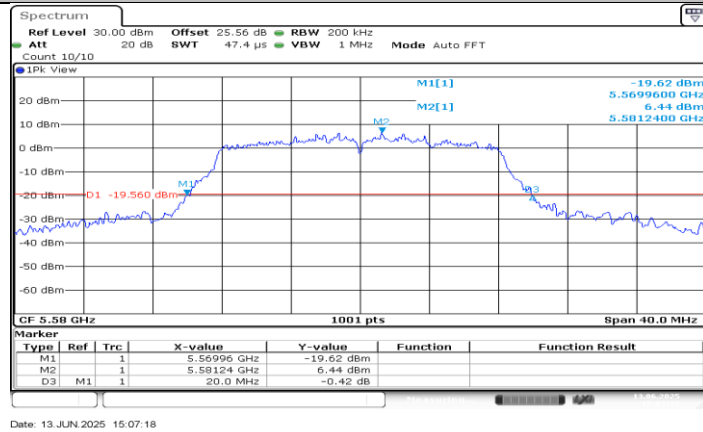
11A_Ant1_5280



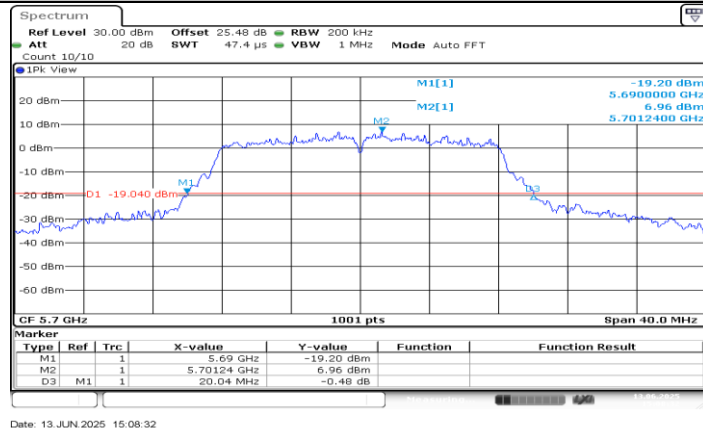
11A_Ant1_5320



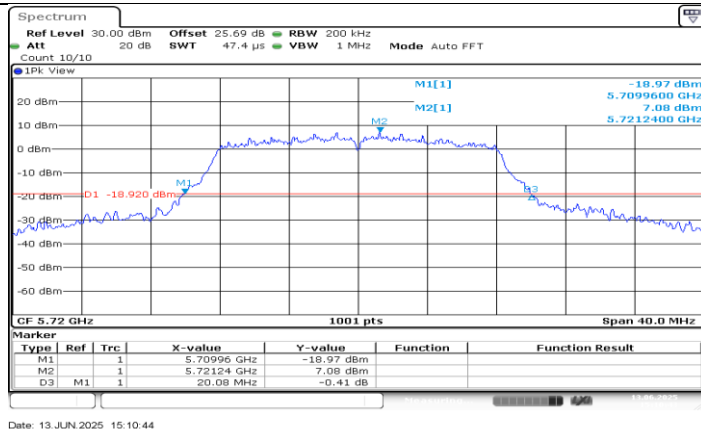
11A_Ant1_5500



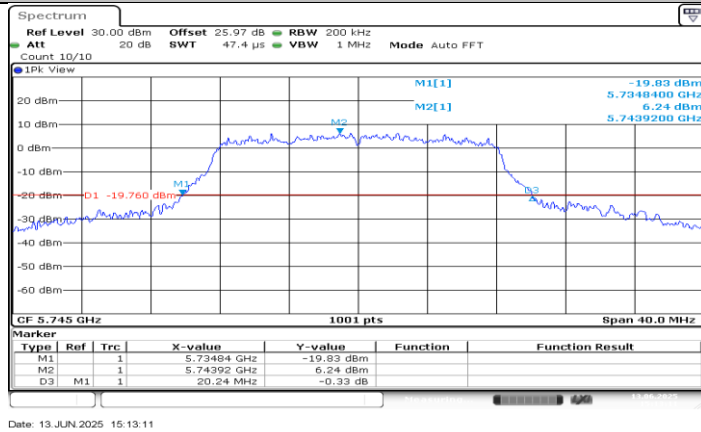
11A_Ant1_5580



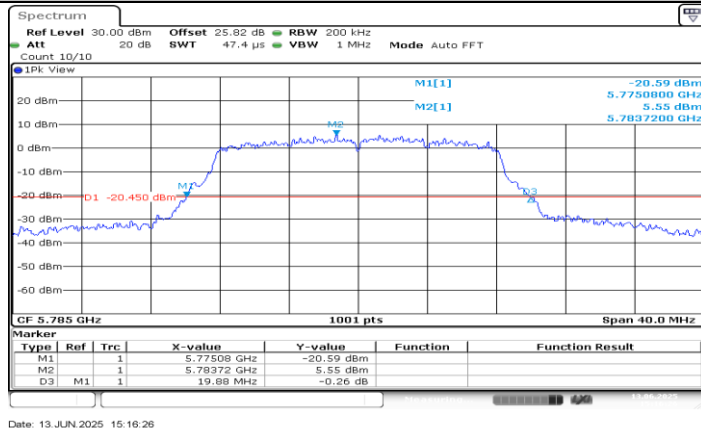
11A_Ant1_5700



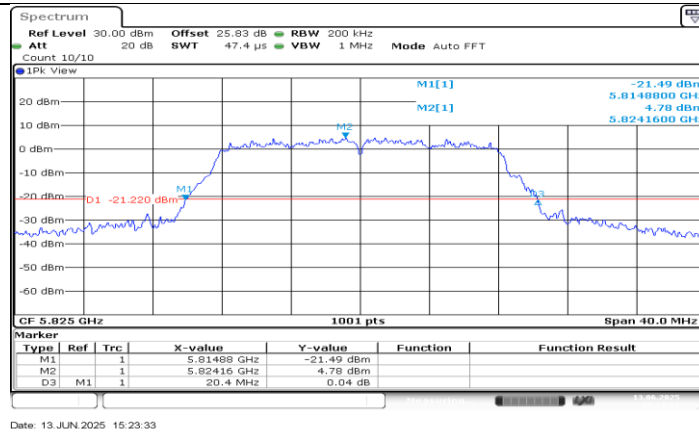
11A_Ant1_5720



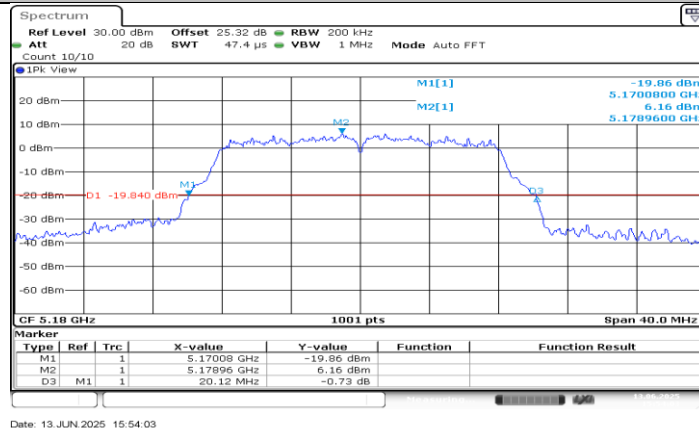
11A_Ant1_5745



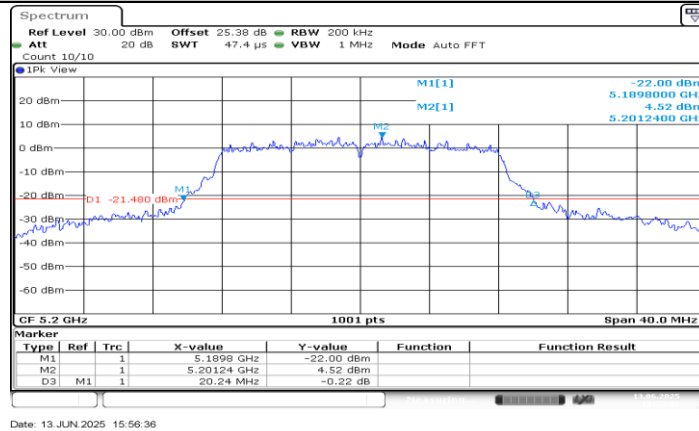
11A_Ant1_5785



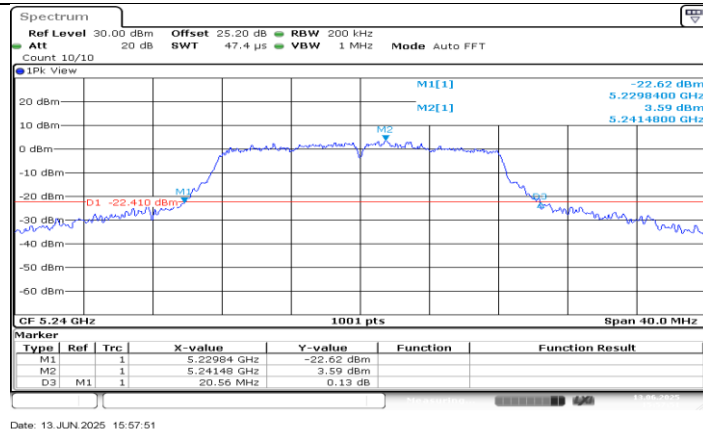
11A_Ant1_5825



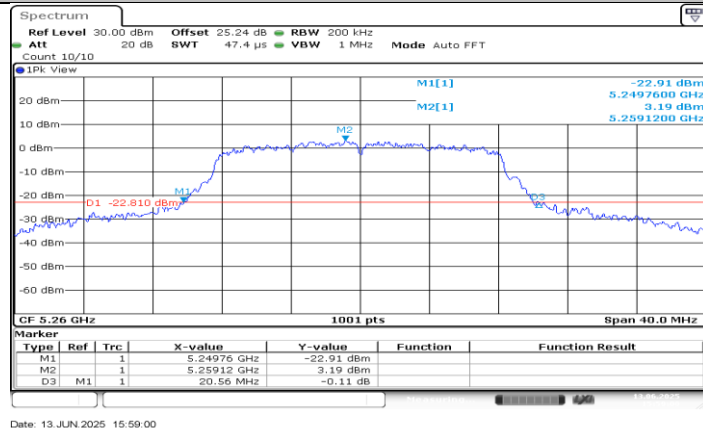
11N20SISO_Ant1_5180



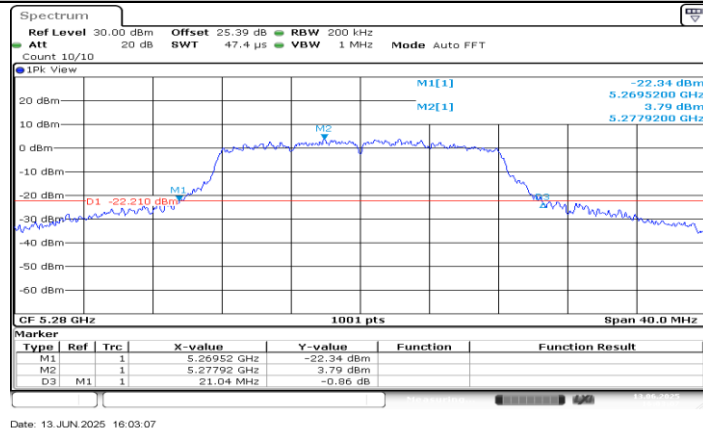
11N20SISO_Ant1_5200



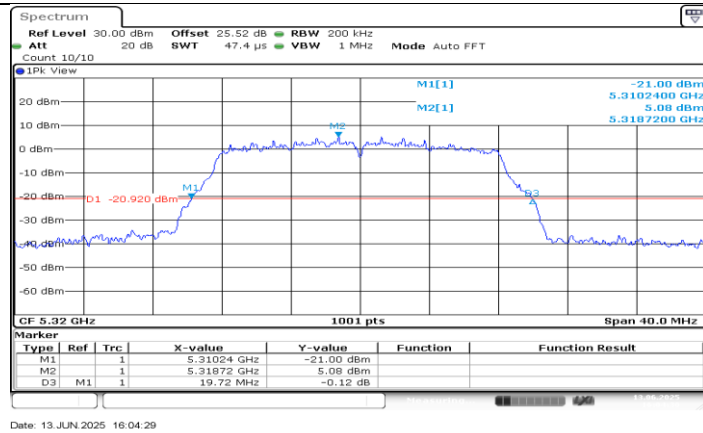
11N20SISO_Ant1_5240



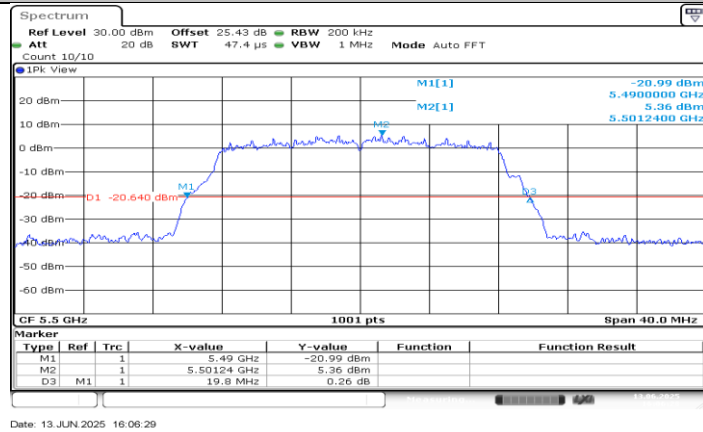
11N20SISO_Ant1_5260



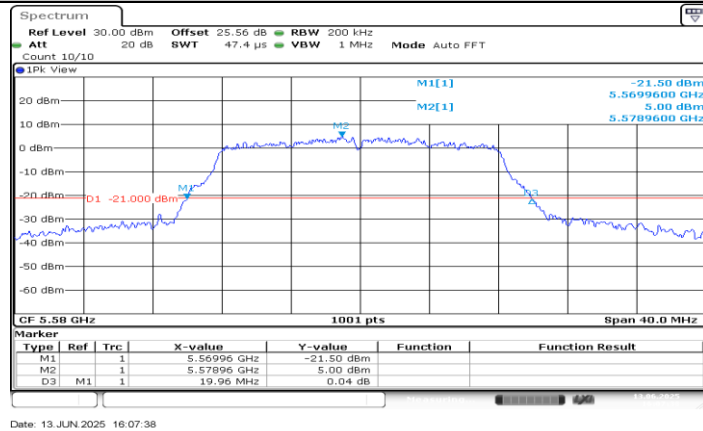
11N20SISO_Ant1_5280



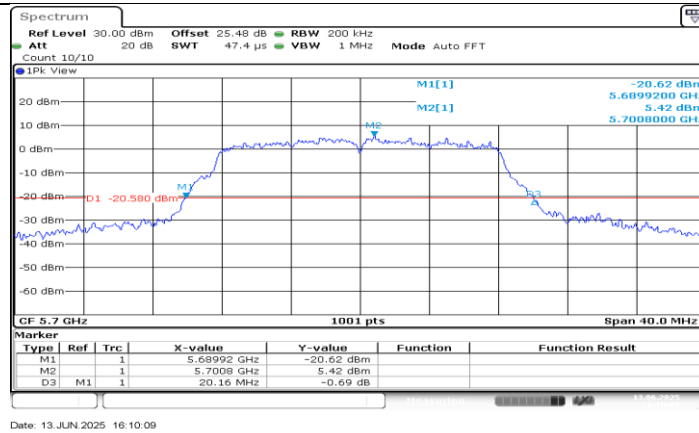
11N20SISO_Ant1_5320



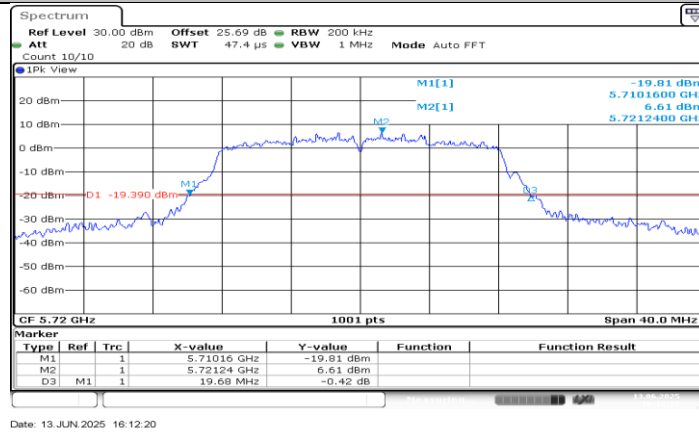
11N20SISO_Ant1_5500



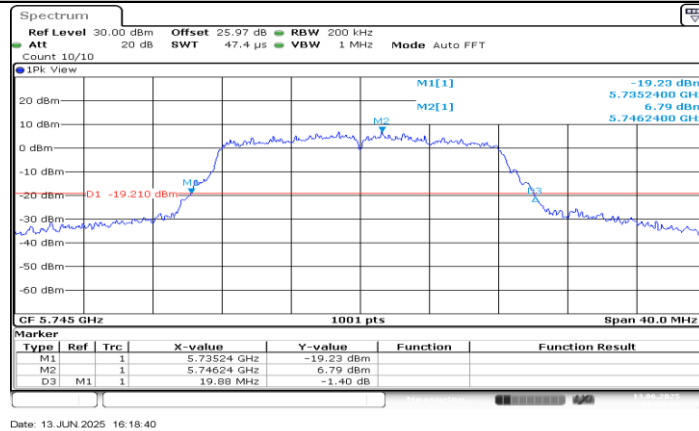
11N20SISO_Ant1_5580



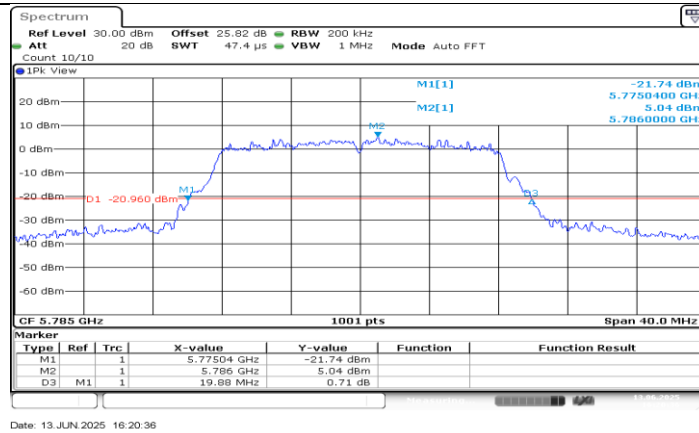
11N20SISO_Ant1_5700



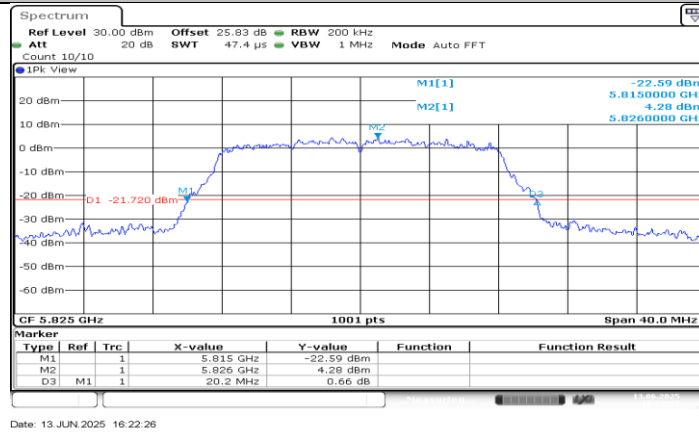
11N20SISO_Ant1_5720



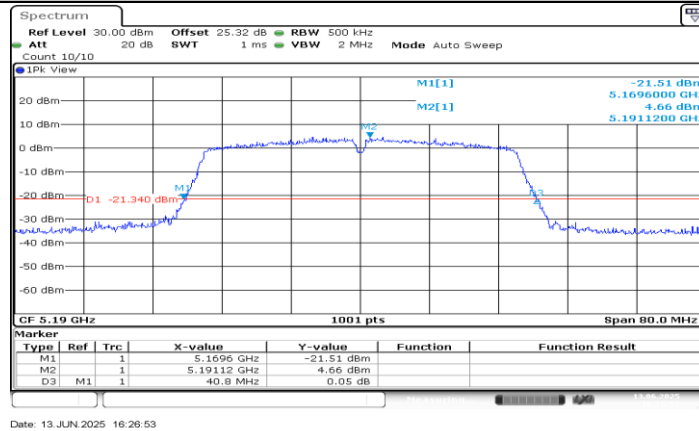
11N20SISO_Ant1_5745



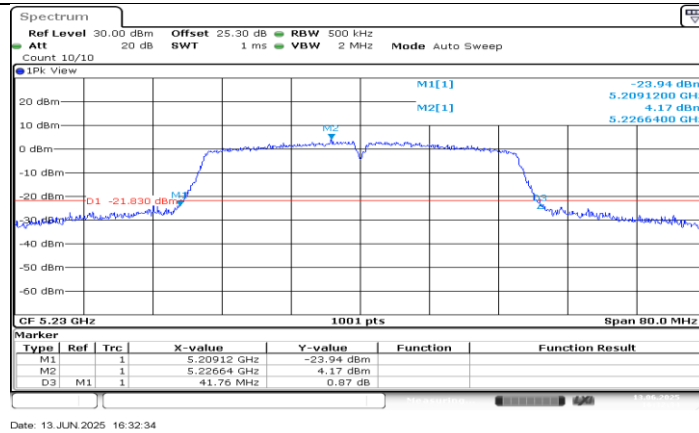
11N20SISO_Ant1_5785



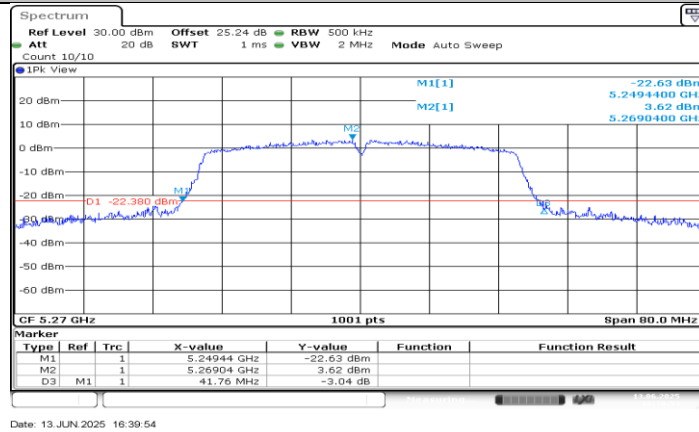
11N20SISO_Ant1_5825



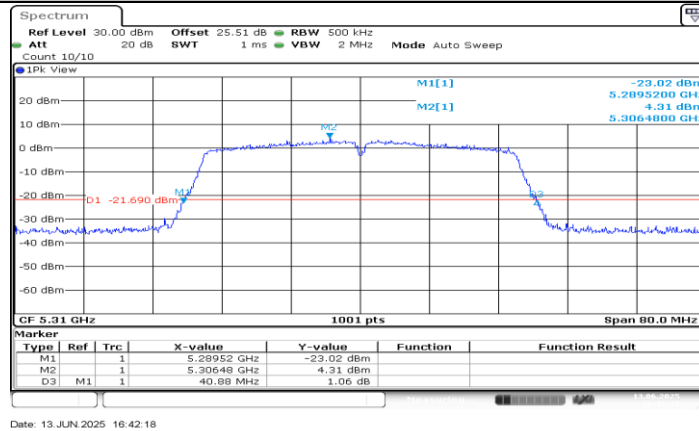
11N40SISO_Ant1_5190



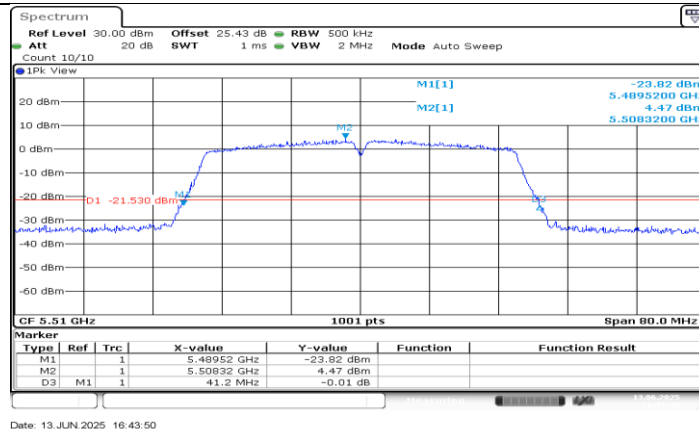
11N40SISO_Ant1_5230



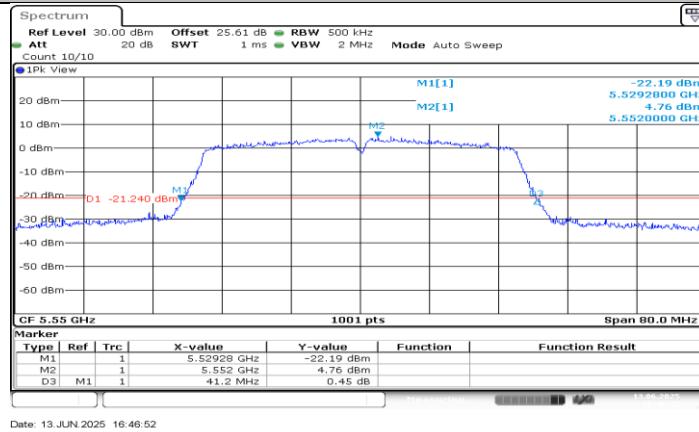
11N40SISO_Ant1_5270



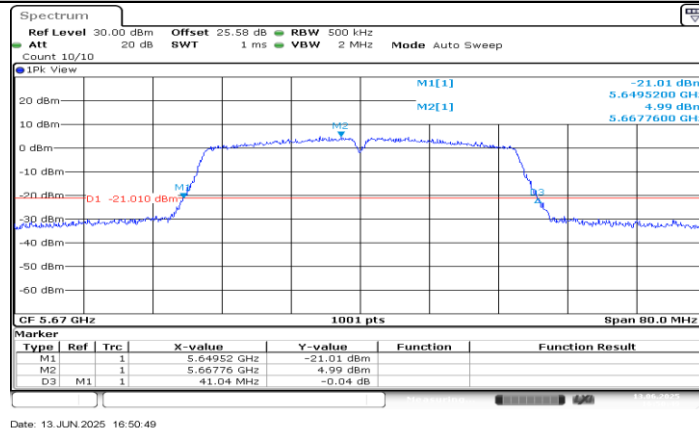
11N40SISO_Ant1_5310



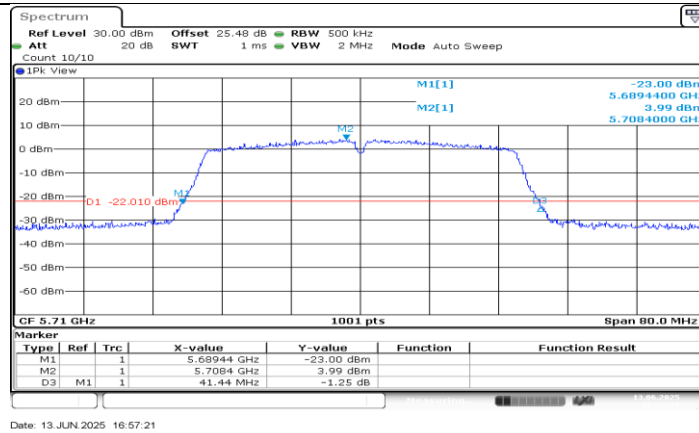
11N40SISO_Ant1_5510



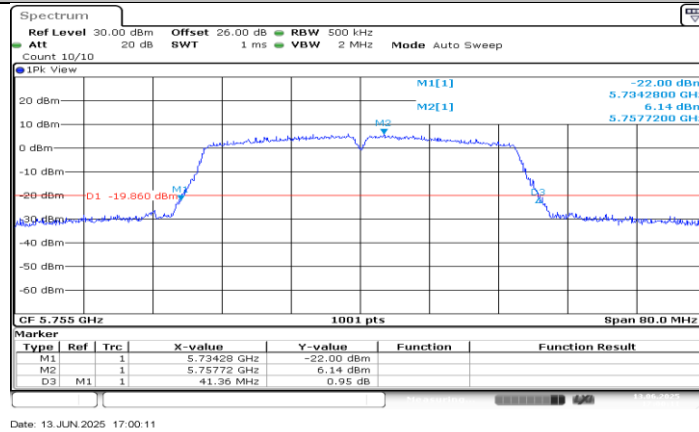
11N40SISO_Ant1_5550



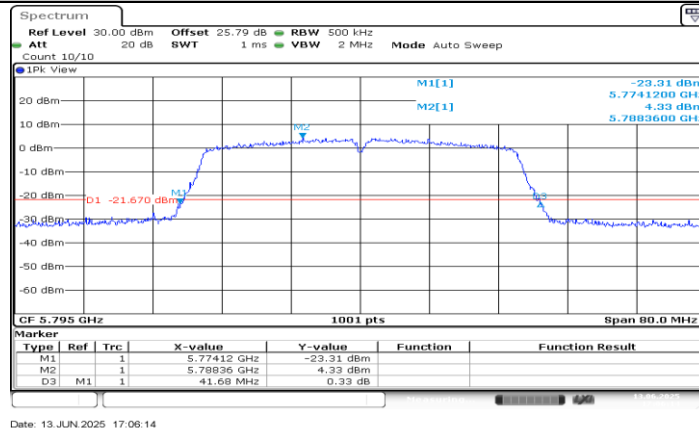
11N40SISO_Ant1_5670



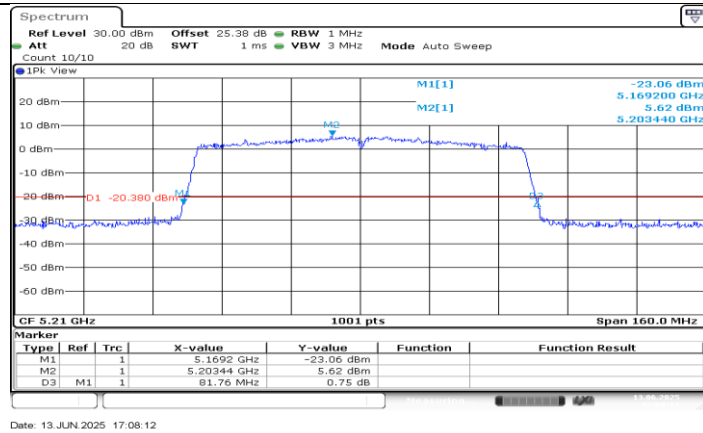
11N40SISO_Ant1_5710



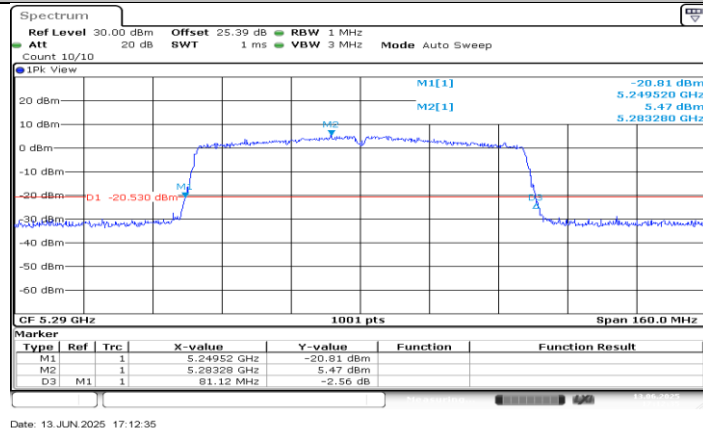
11N40SISO_Ant1_5755



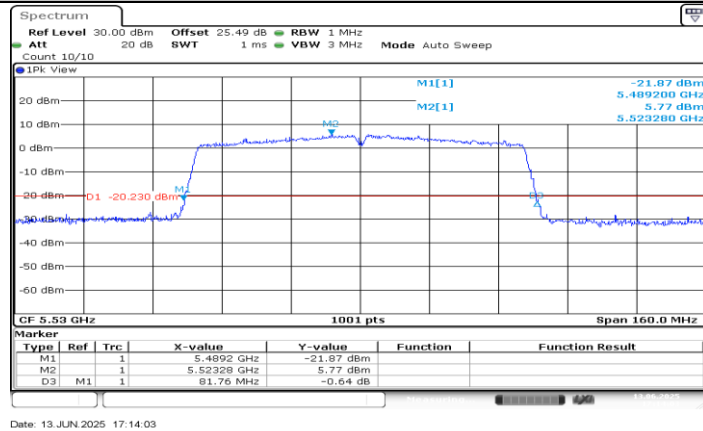
11N40SISO_Ant1_5795



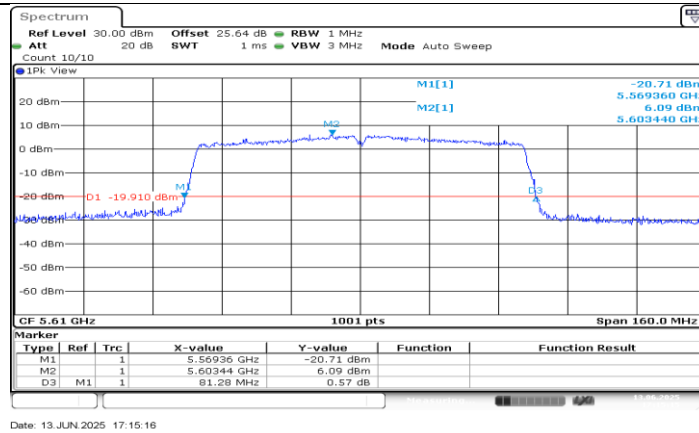
11AC80SISO_Ant1_5210



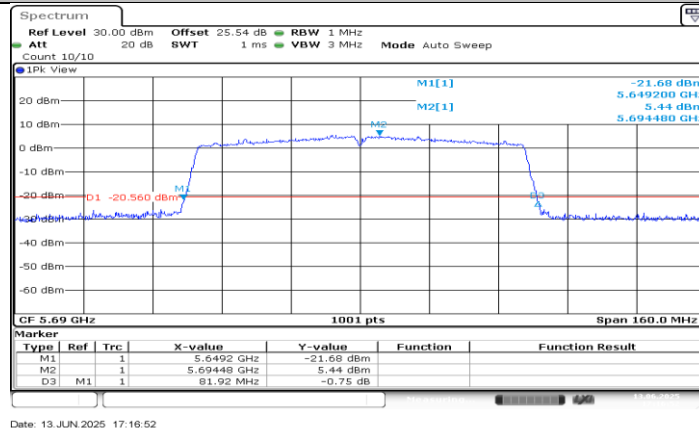
11AC80SISO_Ant1_5290



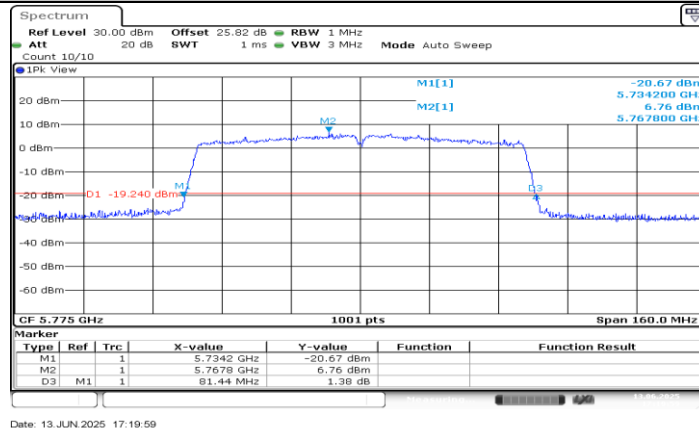
11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610



11AC80SISO_Ant1_5690



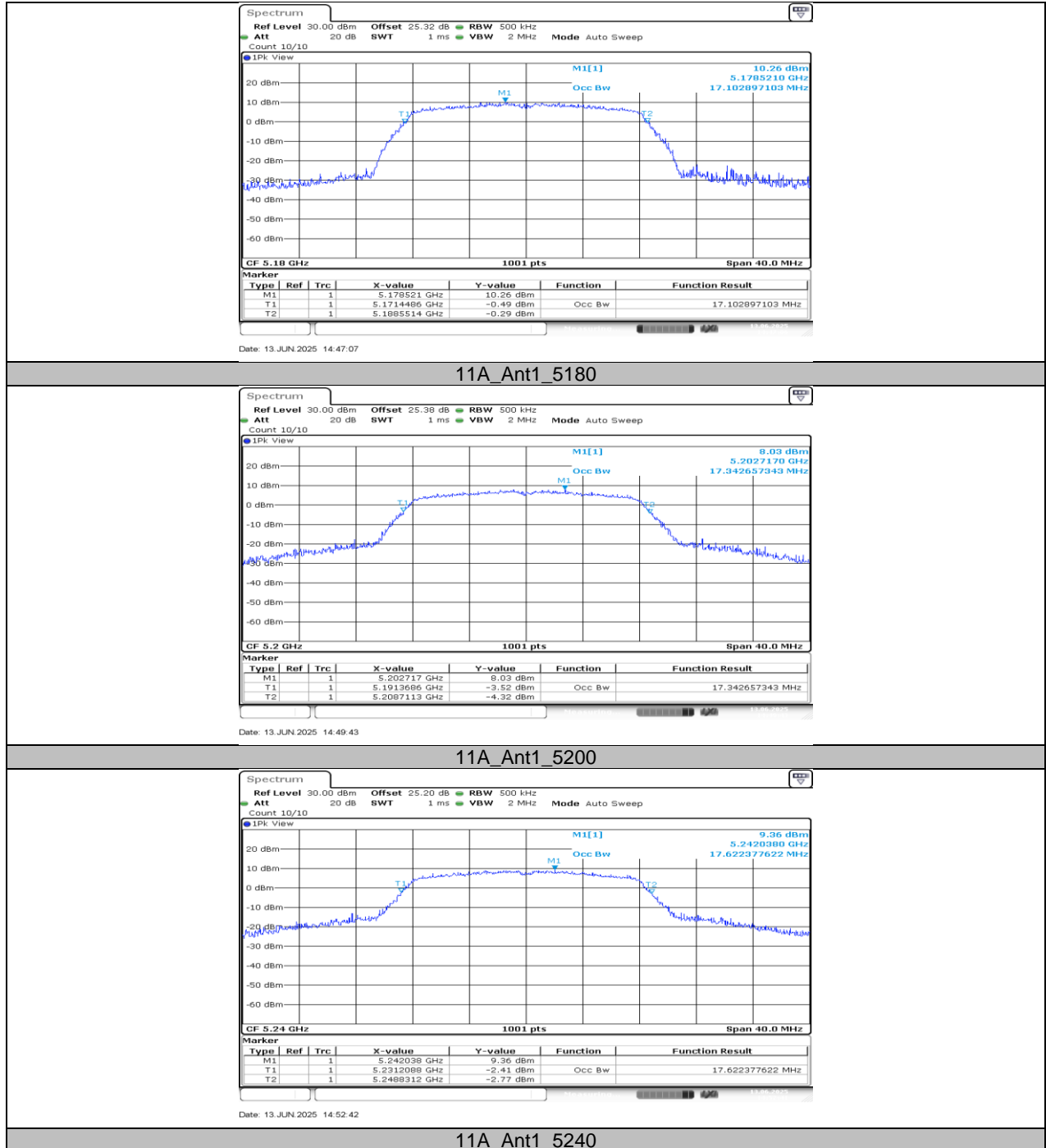
11AC80SISO_Ant1_5775

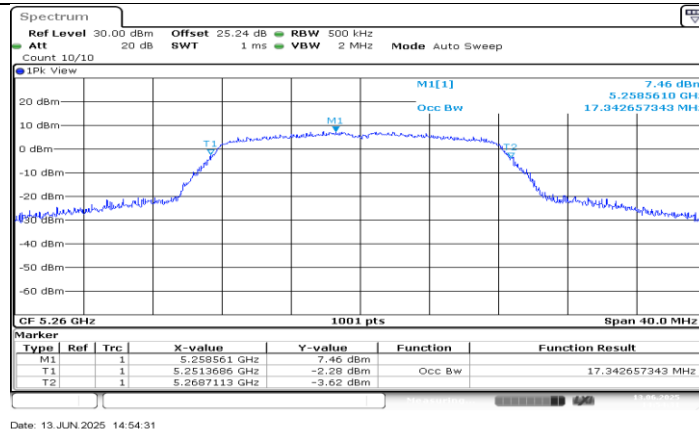
12.2. APPENDIX B2: OCCUPIED CHANNEL BANDWIDTH

12.2.1. Test Result

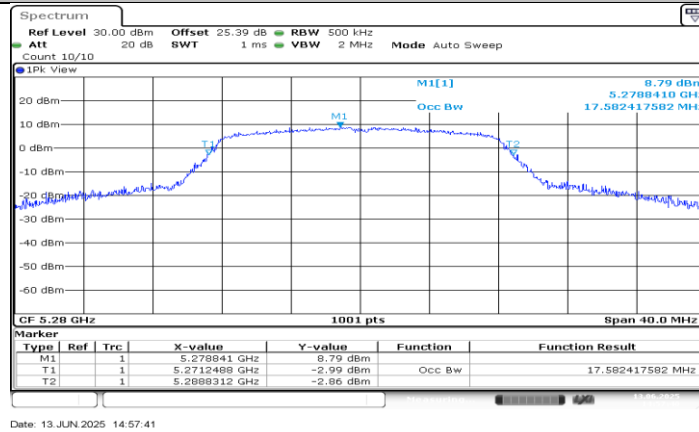
| Test Mode | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Verdict |
|------------|---------|----------------|-----------|-----------|-----------|---------|
| 11A | Ant1 | 5180 | 17.103 | 5171.4486 | 5188.5514 | PASS |
| | | 5200 | 17.343 | 5191.3686 | 5208.7113 | PASS |
| | | 5240 | 17.622 | 5231.2088 | 5248.8312 | PASS |
| | | 5260 | 17.343 | 5251.3686 | 5268.7113 | PASS |
| | | 5280 | 17.582 | 5271.2488 | 5288.8312 | PASS |
| | | 5320 | 17.183 | 5311.4086 | 5328.5914 | PASS |
| | | 5500 | 17.143 | 5491.4086 | 5508.5514 | PASS |
| | | 5580 | 17.263 | 5571.3686 | 5588.6314 | PASS |
| | | 5700 | 17.343 | 5691.3287 | 5708.6713 | PASS |
| | | 5720 | 17.303 | 5711.3686 | 5728.6713 | PASS |
| | | 5720_UNII-2C | 13.631 | 5711.3686 | 5725 | PASS |
| | | 5720_UNII-3 | 3.671 | 5725 | 5728.6713 | PASS |
| | | 5745 | 17.303 | 5736.3686 | 5753.6713 | PASS |
| | | 5785 | 17.223 | 5776.4086 | 5793.6314 | PASS |
| | | 5825 | 17.223 | 5816.4086 | 5833.6314 | PASS |
| 11N20SISO | Ant1 | 5180 | 17.103 | 5171.4486 | 5188.5514 | PASS |
| | | 5200 | 17.303 | 5191.3686 | 5208.6713 | PASS |
| | | 5240 | 17.463 | 5231.2887 | 5248.7512 | PASS |
| | | 5260 | 17.423 | 5251.2887 | 5268.7113 | PASS |
| | | 5280 | 17.383 | 5271.2887 | 5288.6713 | PASS |
| | | 5320 | 17.143 | 5311.4086 | 5328.5514 | PASS |
| | | 5500 | 17.103 | 5491.4486 | 5508.5514 | PASS |
| | | 5580 | 17.223 | 5571.3686 | 5588.5914 | PASS |
| | | 5700 | 17.223 | 5691.4086 | 5708.6314 | PASS |
| | | 5720 | 17.223 | 5711.4086 | 5728.6314 | PASS |
| | | 5720_UNII-2C | 13.591 | 5711.4086 | 5725 | PASS |
| | | 5720_UNII-3 | 3.631 | 5725 | 5728.6314 | PASS |
| | | 5745 | 17.183 | 5736.4086 | 5753.5914 | PASS |
| | | 5785 | 17.143 | 5776.4486 | 5793.5914 | PASS |
| | | 5825 | 17.143 | 5816.4086 | 5833.5514 | PASS |
| 11N40SISO | Ant1 | 5190 | 36.204 | 5171.9381 | 5208.1419 | PASS |
| | | 5230 | 36.364 | 5211.8581 | 5248.2218 | PASS |
| | | 5270 | 36.364 | 5251.8581 | 5288.2218 | PASS |
| | | 5310 | 36.284 | 5291.8581 | 5328.1419 | PASS |
| | | 5510 | 36.444 | 5491.8581 | 5528.3017 | PASS |
| | | 5550 | 36.444 | 5531.7782 | 5568.2218 | PASS |
| | | 5670 | 36.364 | 5651.8581 | 5688.2218 | PASS |
| | | 5710 | 36.364 | 5691.8581 | 5728.2218 | PASS |
| | | 5710_UNII-2C | 33.142 | 5691.8581 | 5725 | PASS |
| | | 5710_UNII-3 | 3.222 | 5725 | 5728.2218 | PASS |
| | | 5755 | 36.444 | 5736.8581 | 5773.3017 | PASS |
| | | 5795 | 36.444 | 5776.7782 | 5813.2218 | PASS |
| 11AC80SISO | Ant1 | 5210 | 75.445 | 5172.2777 | 5247.7223 | PASS |
| | | 5290 | 75.445 | 5252.2777 | 5327.7223 | PASS |
| | | 5530 | 75.604 | 5492.2777 | 5567.8821 | PASS |
| | | 5610 | 75.604 | 5572.2777 | 5647.8821 | PASS |
| | | 5690 | 75.604 | 5652.2777 | 5727.8821 | PASS |
| | | 5690_UNII-2C | 72.722 | 5652.2777 | 5725 | PASS |
| | | 5690_UNII-3 | 2.882 | 5725 | 5727.8821 | PASS |
| | | 5775 | 75.604 | 5737.2777 | 5812.8821 | PASS |

12.2.2. Test Graphs

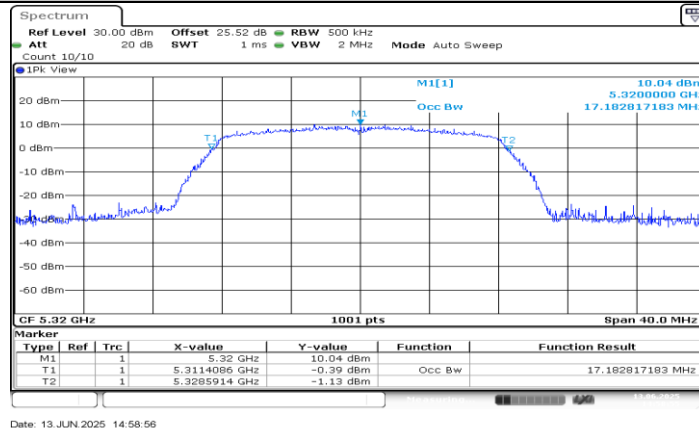




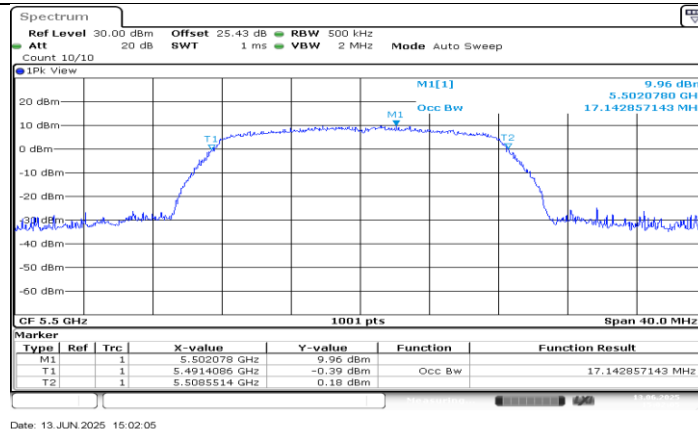
11A_Ant1_5260



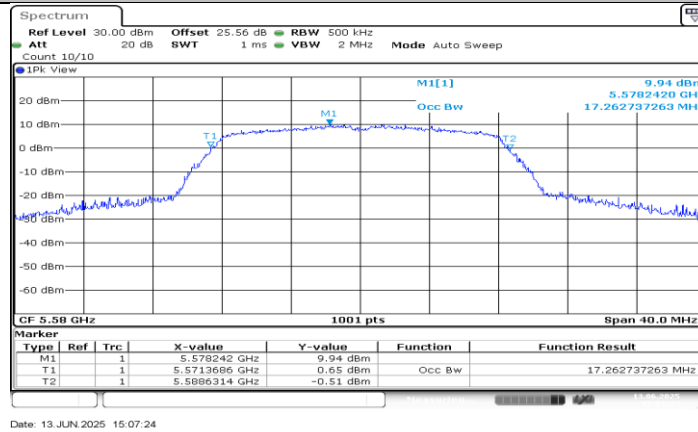
11A_Ant1_5280



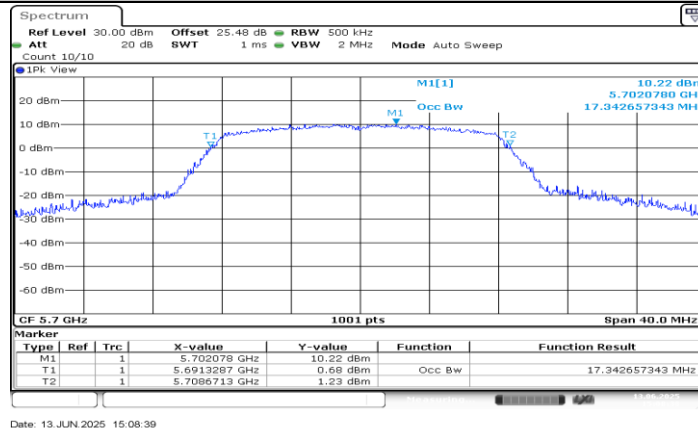
11A_Ant1_5320



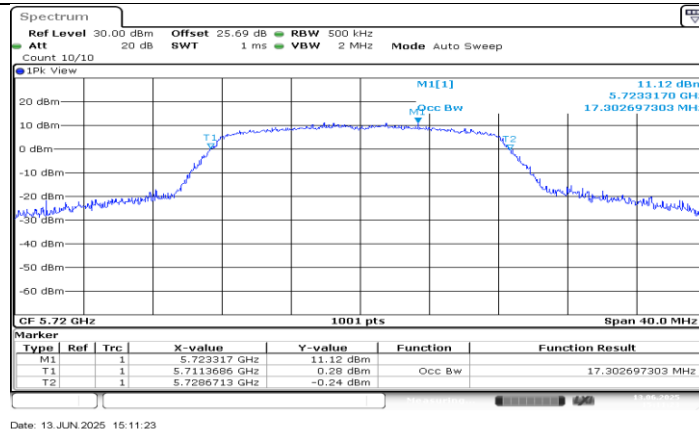
11A_Ant1_5500



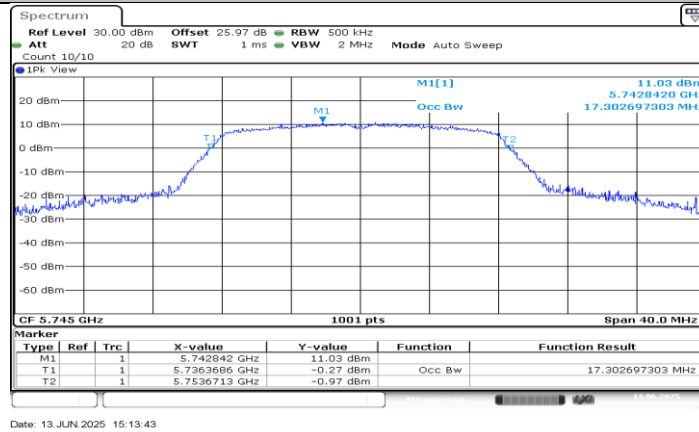
11A_Ant1_5580



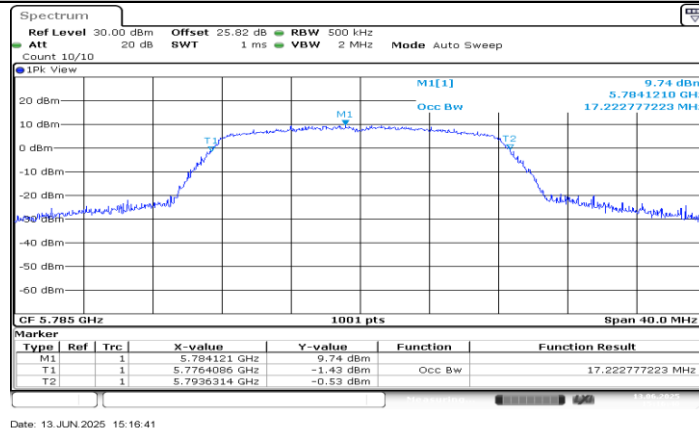
11A_Ant1_5700



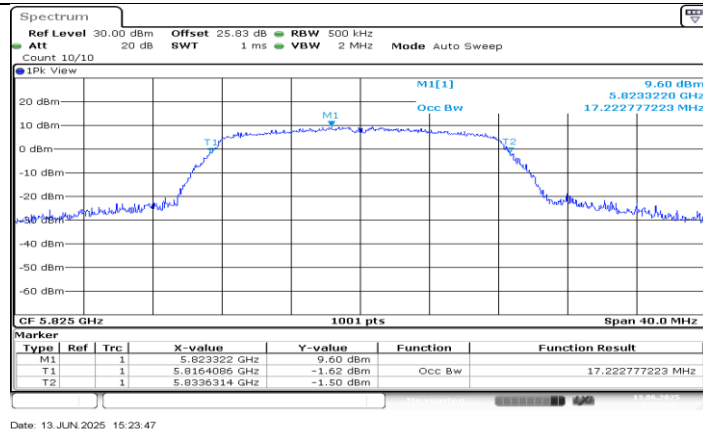
11A_Ant1_5720



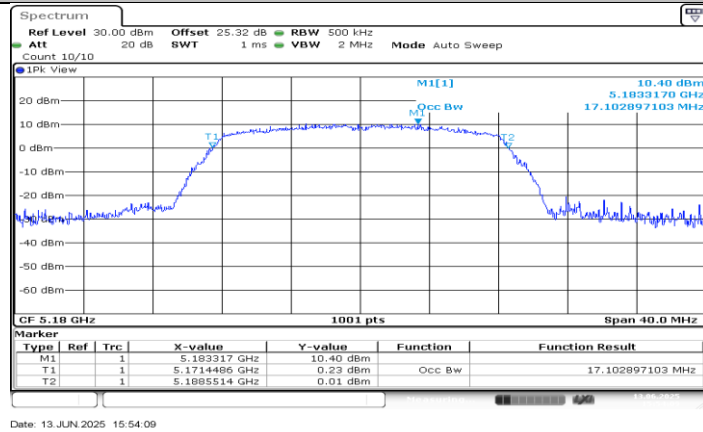
11A_Ant1_5745



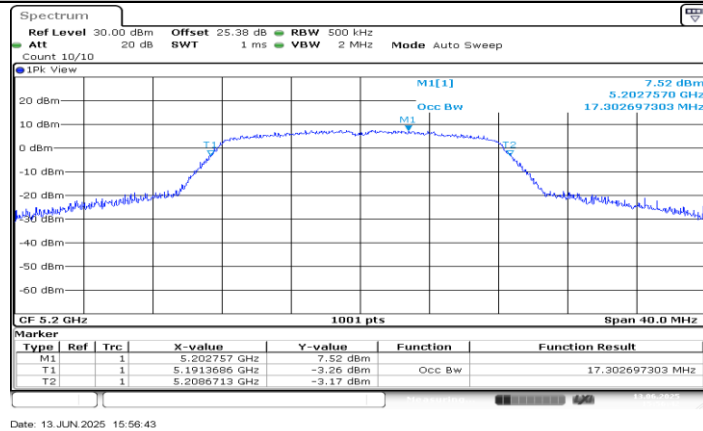
11A_Ant1_5785



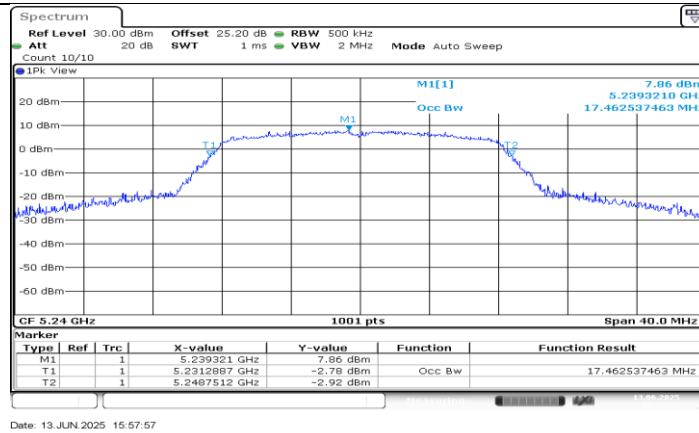
11A_Ant1_5825



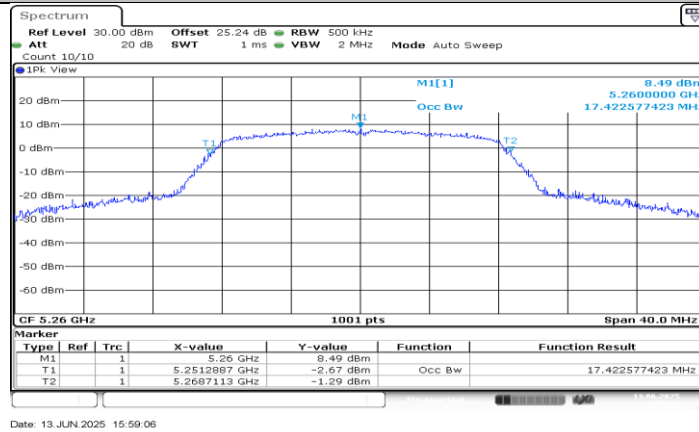
11N20SISO_Ant1_5180



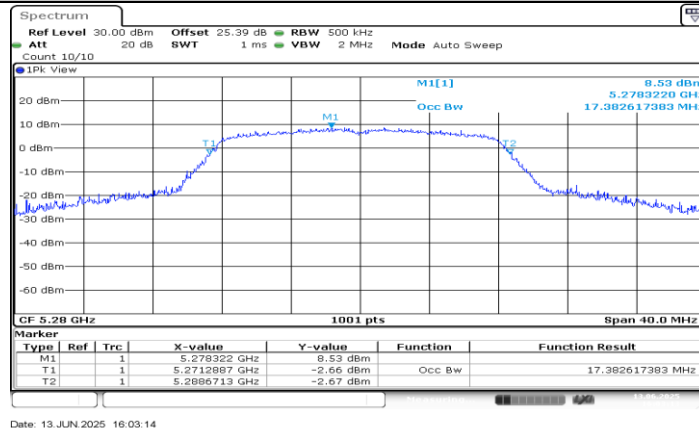
11N20SISO_Ant1_5200



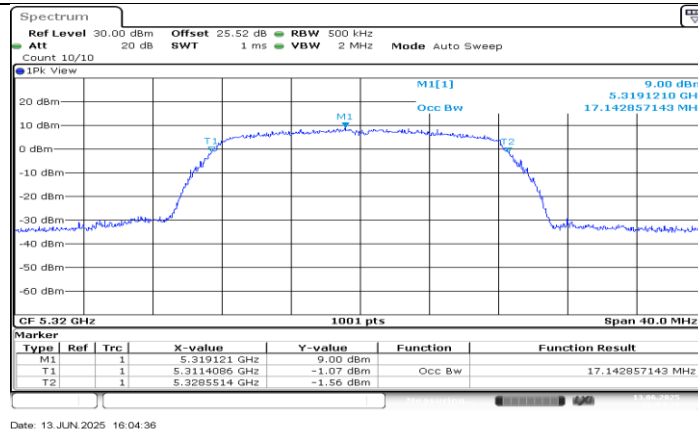
11N20SISO_Ant1_5240



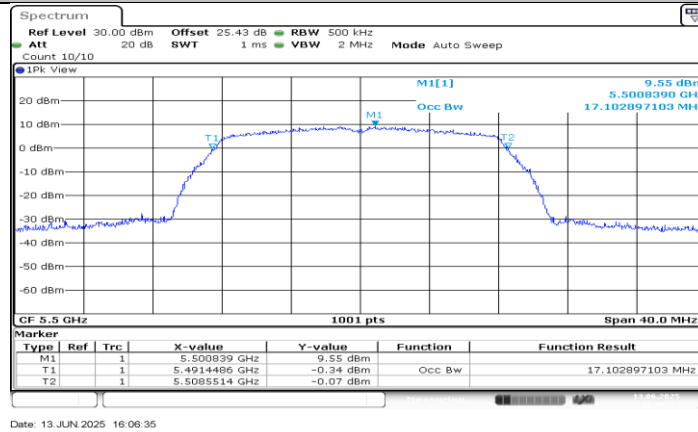
11N20SISO_Ant1_5260



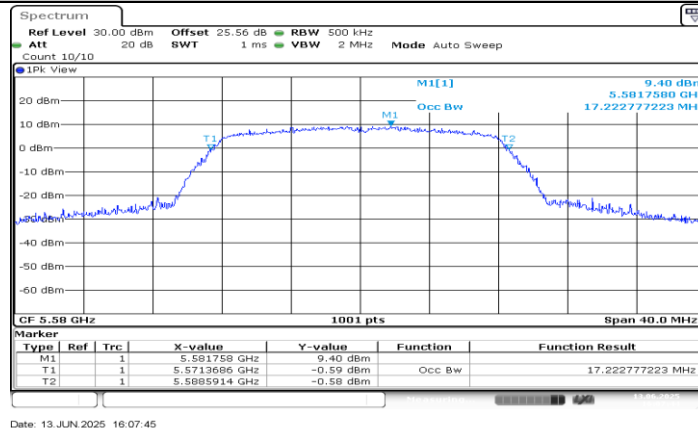
11N20SISO_Ant1_5280



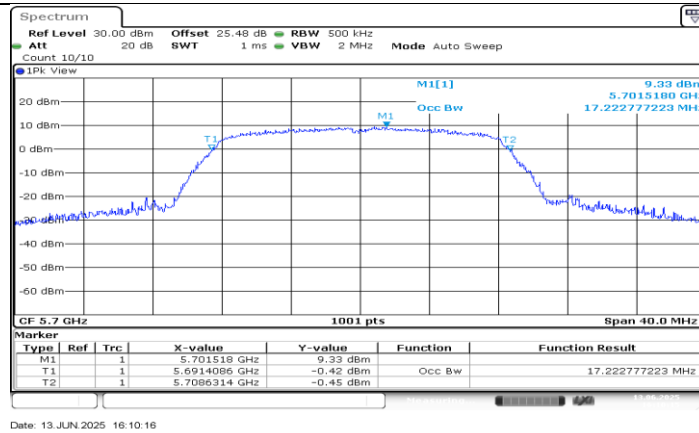
11N20SISO_Ant1_5320



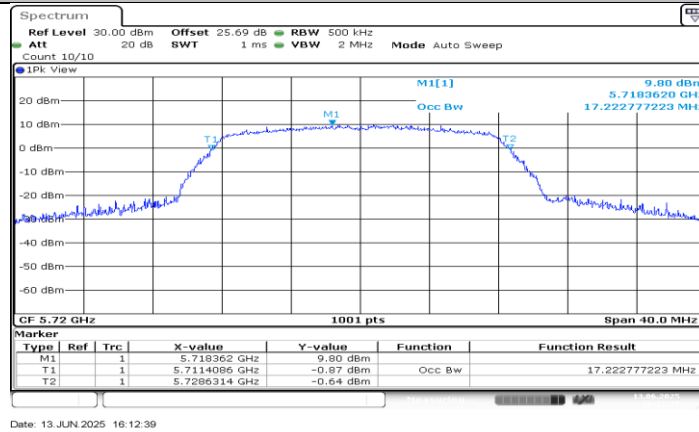
11N20SISO_Ant1_5500



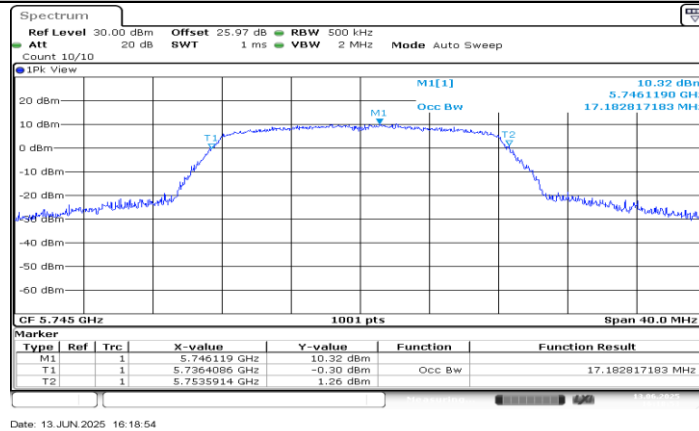
11N20SISO_Ant1_5580



11N20SISO_Ant1_5700



11N20SISO_Ant1_5720



11N20SISO_Ant1_5745