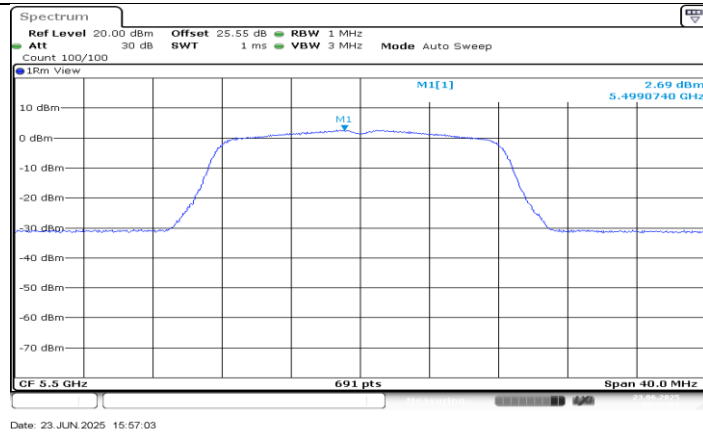
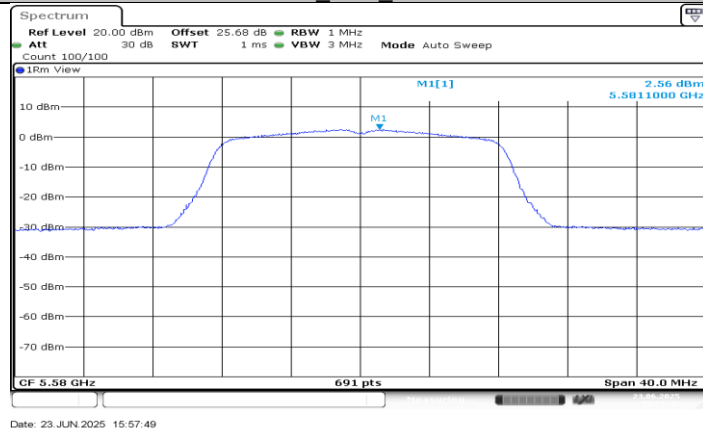
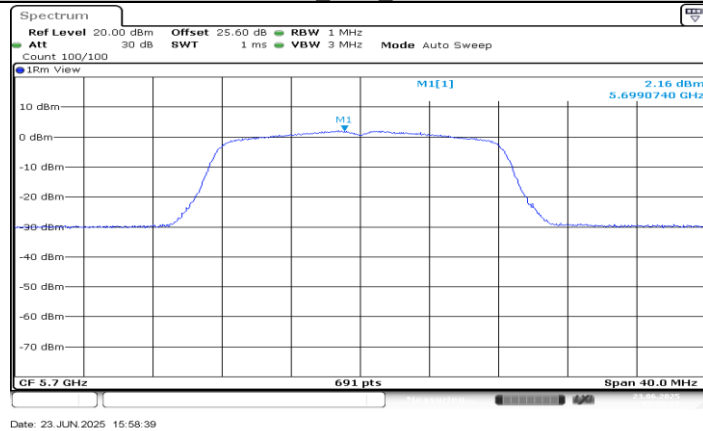




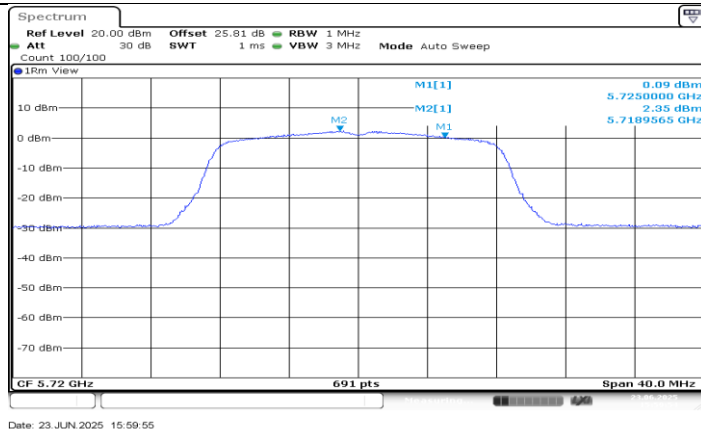
11A Ant0 5500



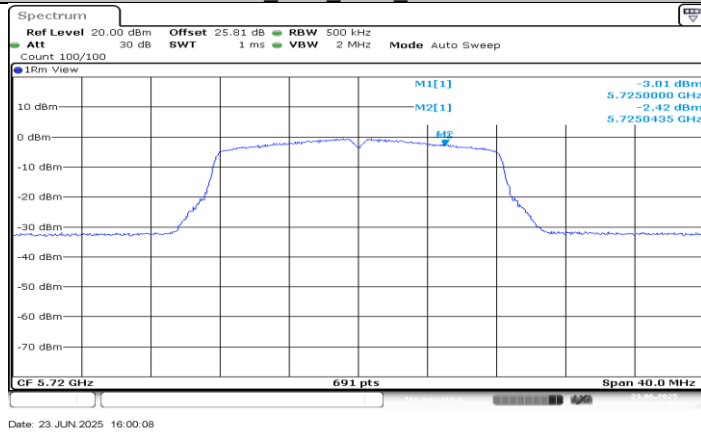
11A Ant0 5580



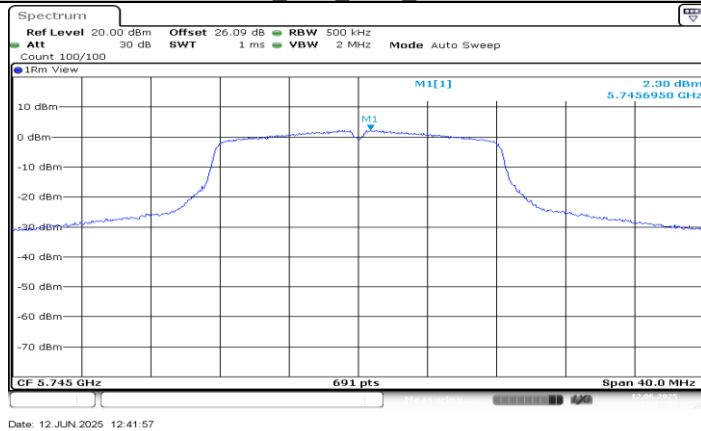
11A Ant0 5700



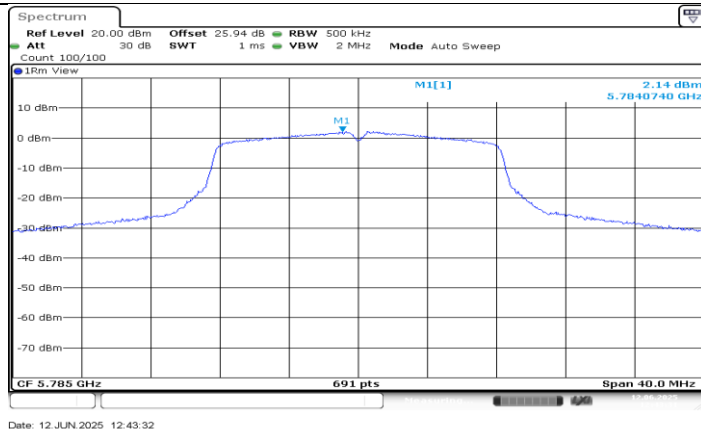
11A Ant0 5720 UNII-2C



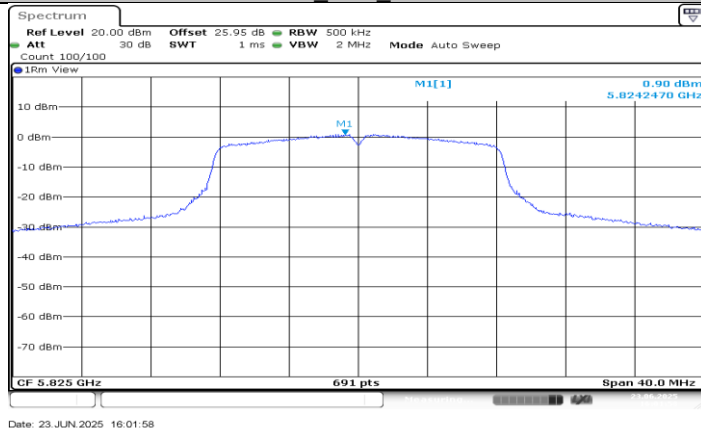
11A Ant0 5720 UNII-3



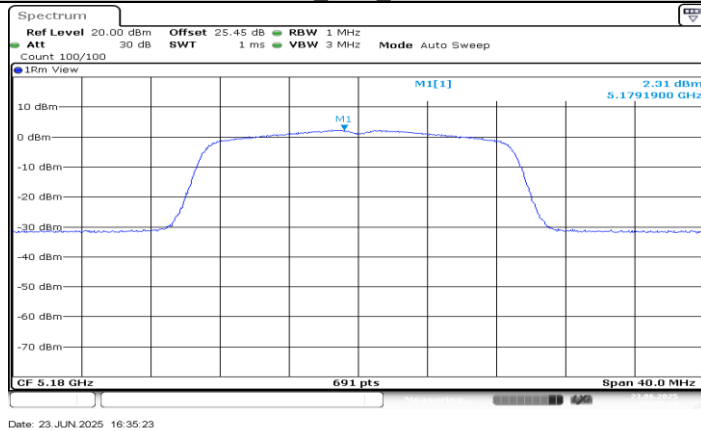
11A Ant0 5745



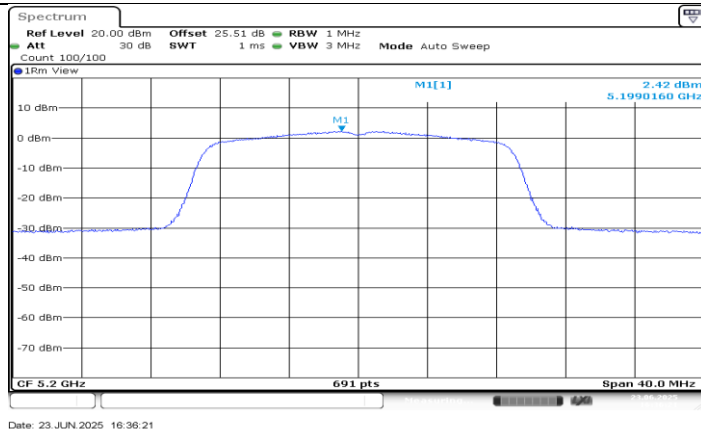
11A Ant0 5785



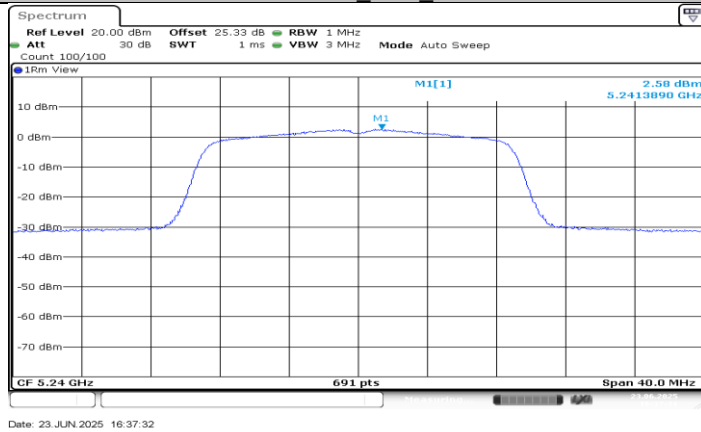
11A Ant0 5825



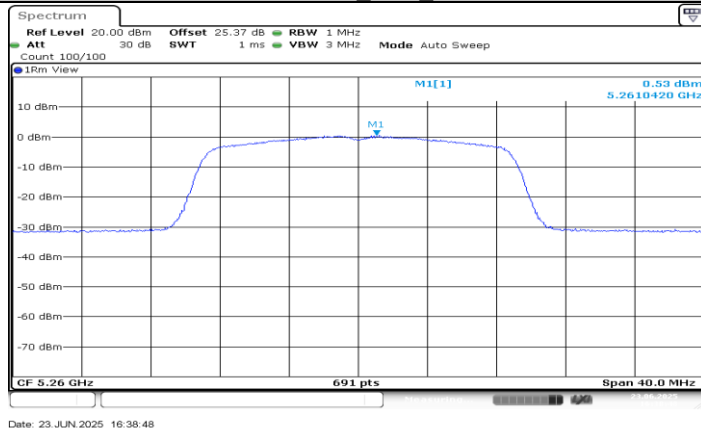
11N20SISO Ant0 5180



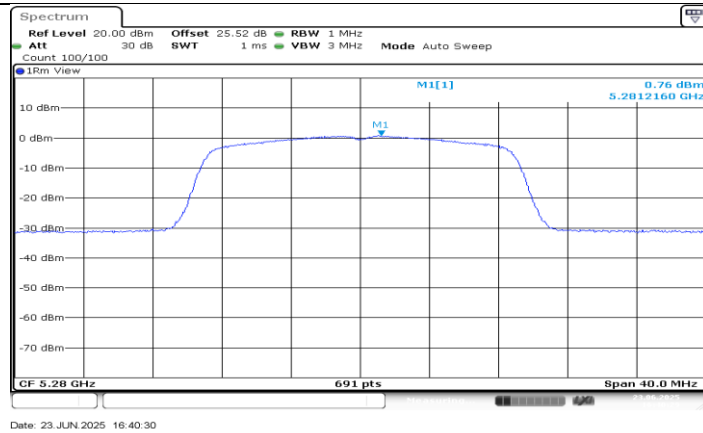
11N20SISO_Ant0_5200



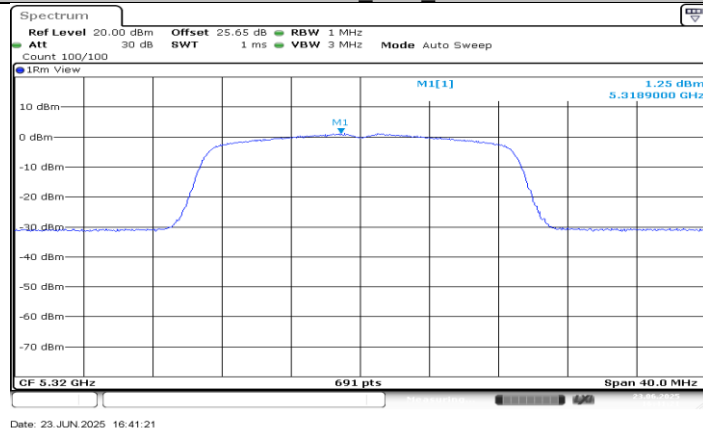
11N20SISO_Ant0_5240



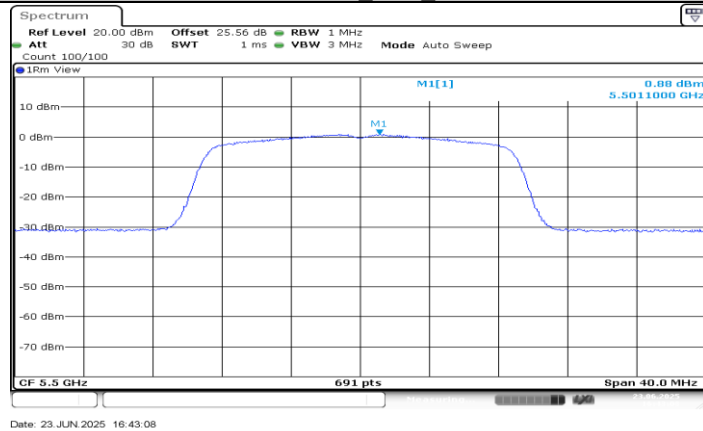
11N20SISO_Ant0_5260



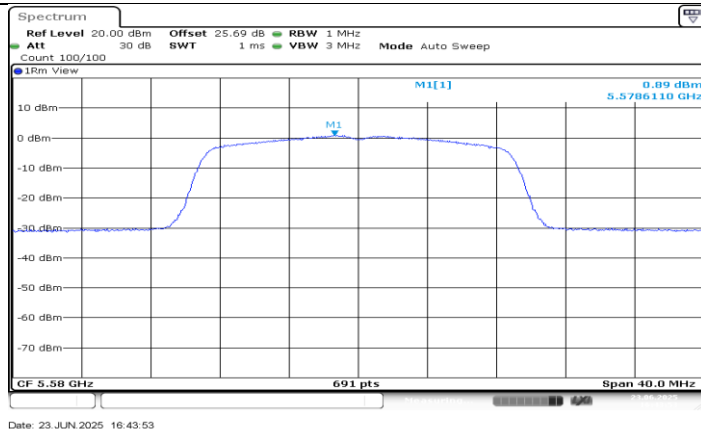
11N20SISO_Ant0_5280



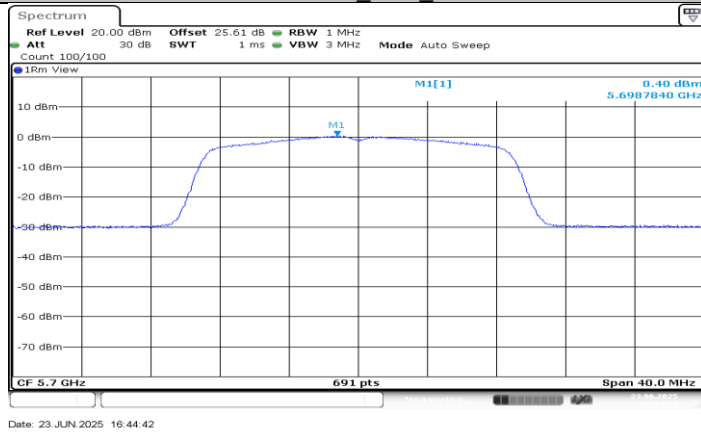
11N20SISO_Ant0_5320



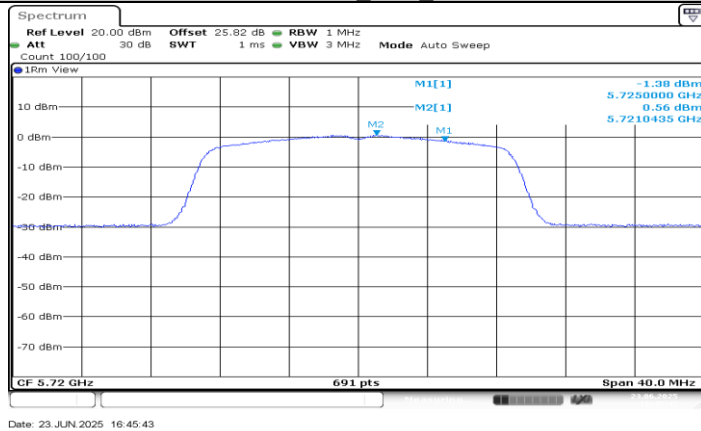
11N20SISO_Ant0_5500



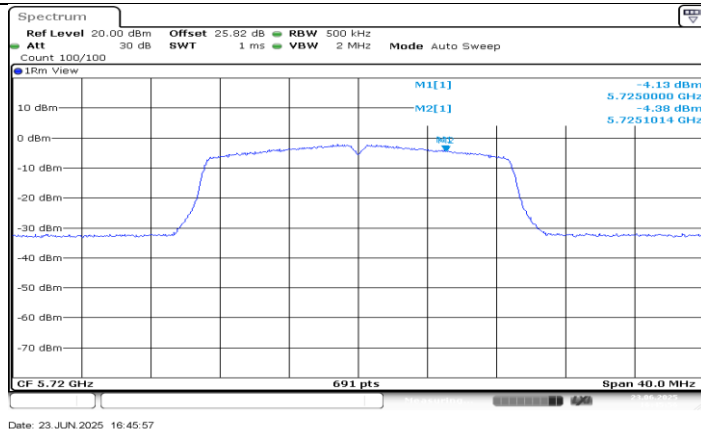
11N20SISO_Ant0_5580



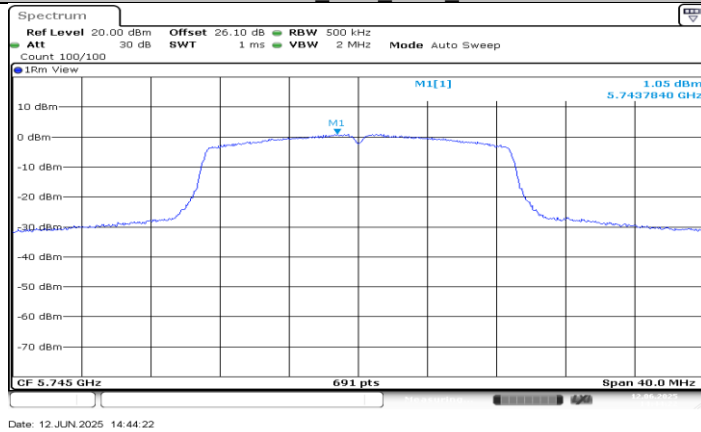
11N20SISO_Ant0_5700



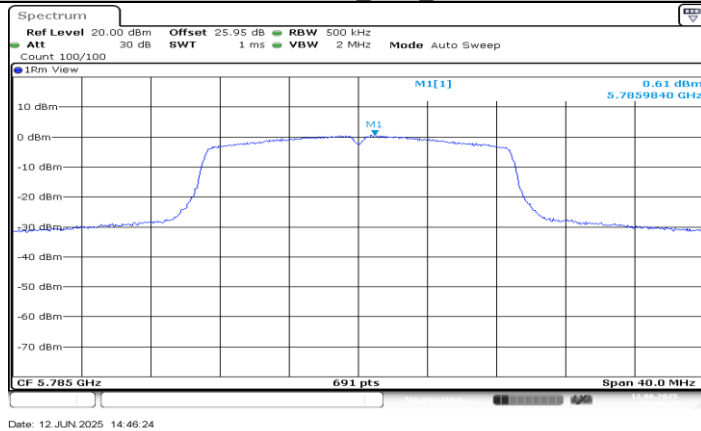
11N20SISO_Ant0_5720_UNII-2C



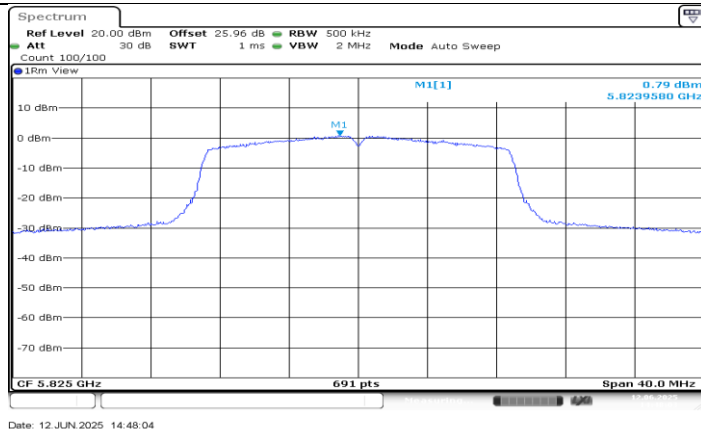
11N20SISO_Ant0_5720_UNII-3



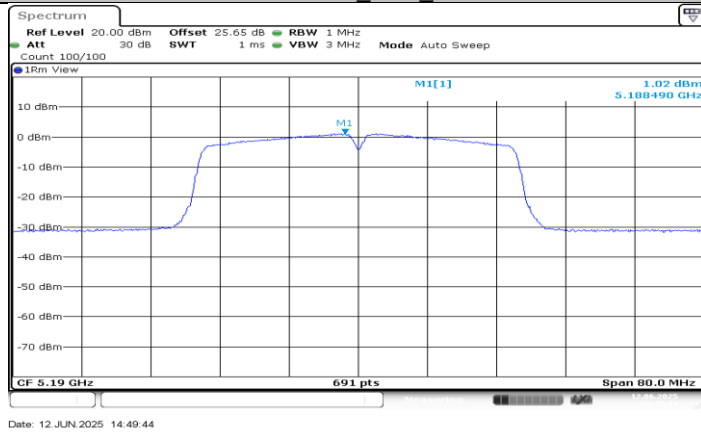
11N20SISO_Ant0_5745



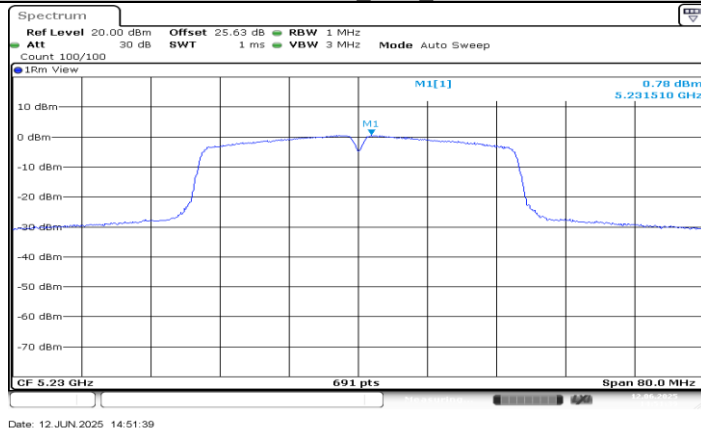
11N20SISO_Ant0_5785



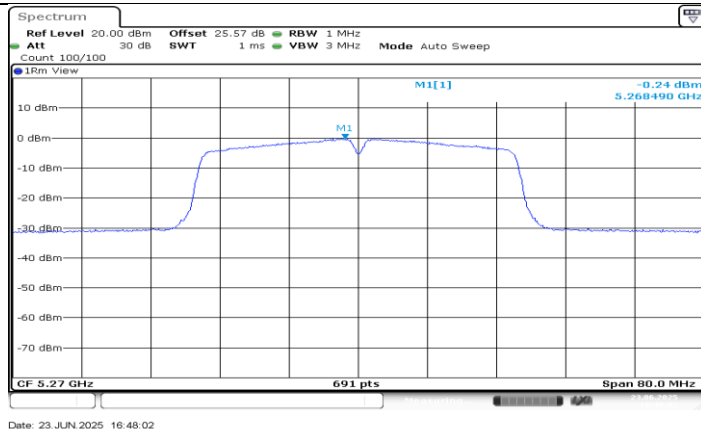
11N20SISO_Ant0_5825



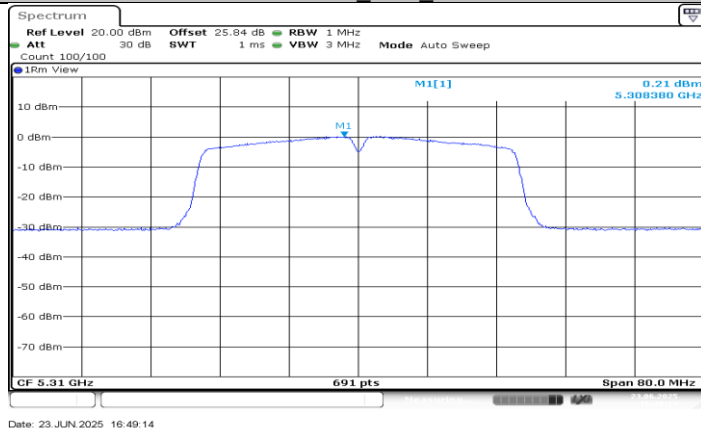
11N40SISO_Ant0_5190



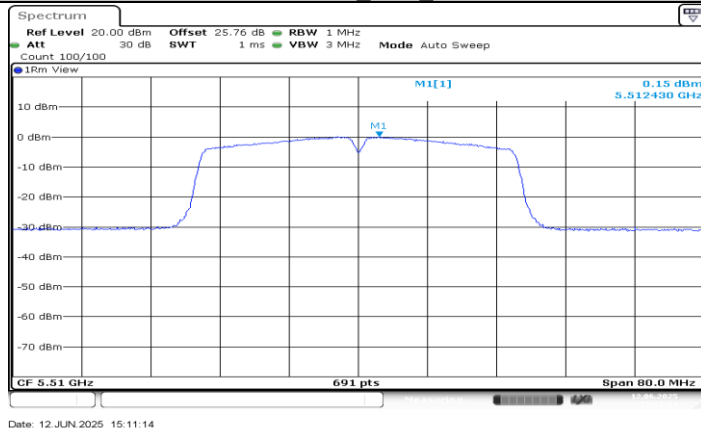
11N40SISO_Ant0_5230



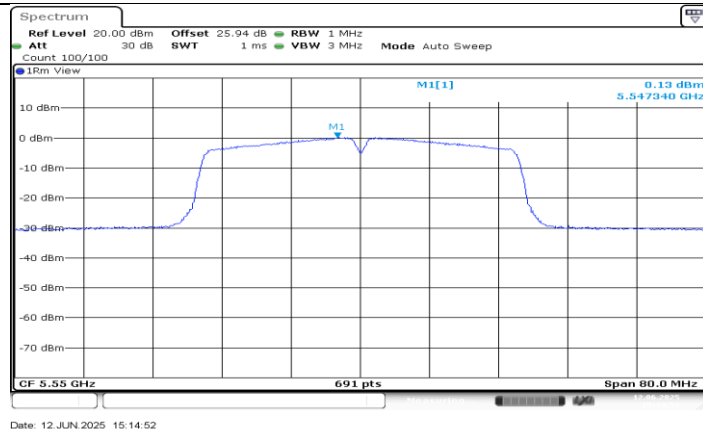
11N40SISO_Ant0_5270



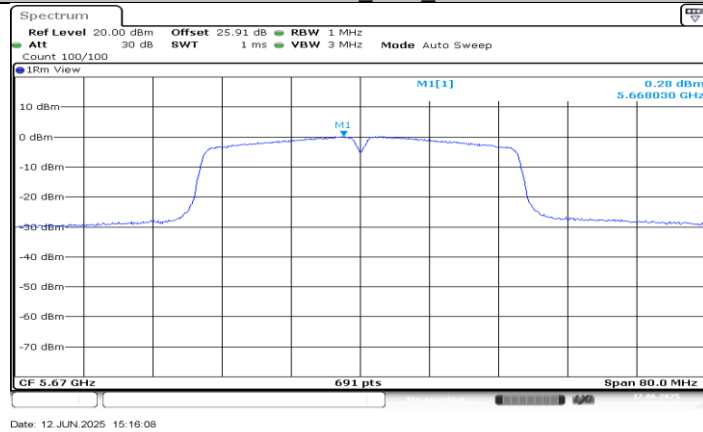
11N40SISO_Ant0_5310



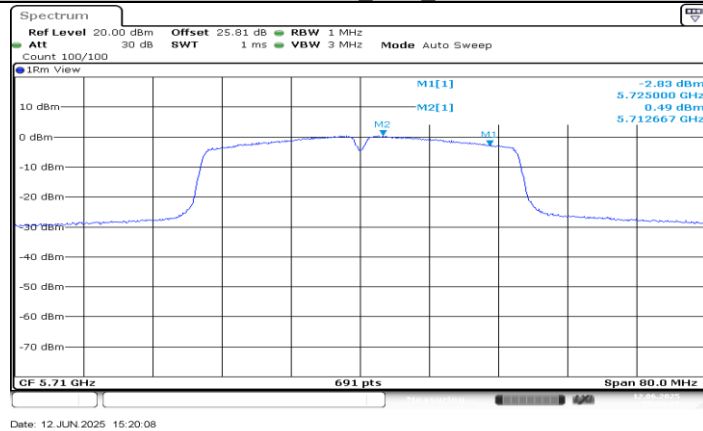
11N40SISO_Ant0_5510



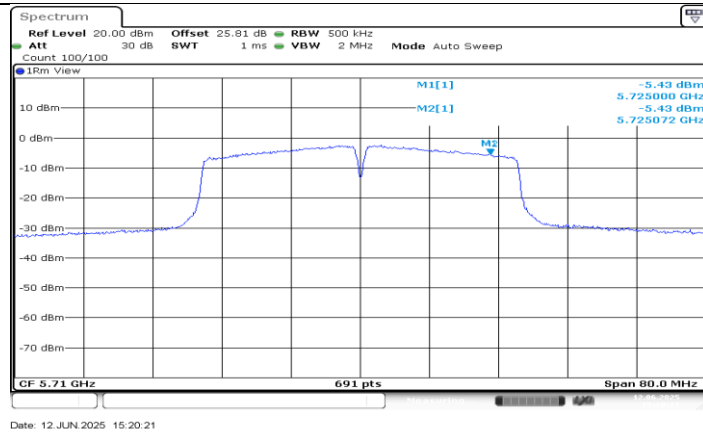
11N40SISO_Ant0_5550



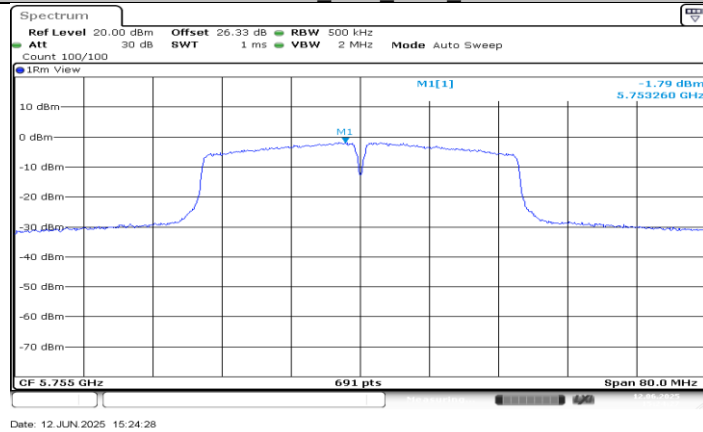
11N40SISO_Ant0_5670



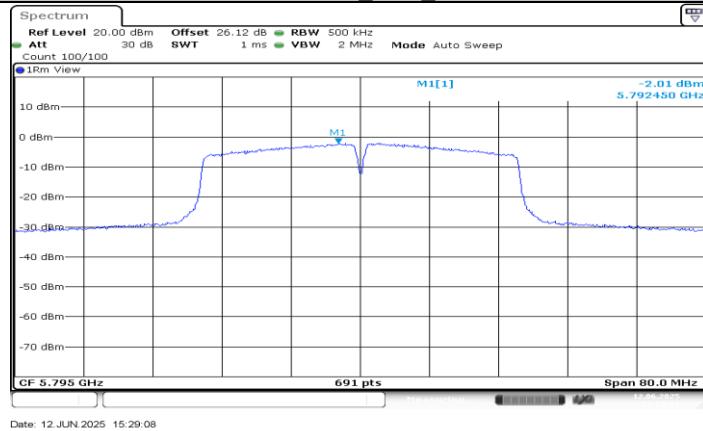
11N40SISO_Ant0_5710_UNII-2C



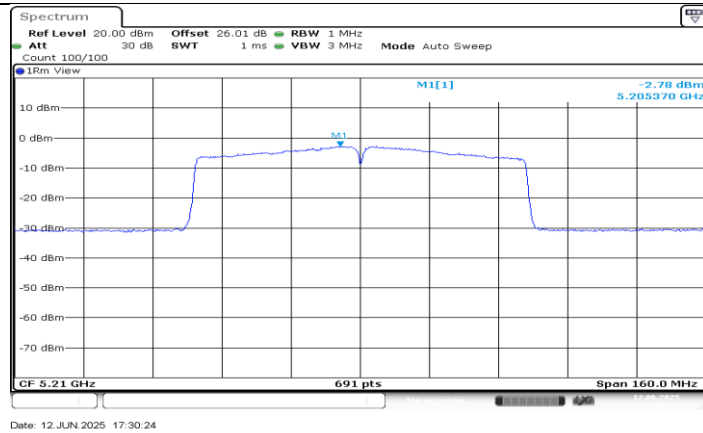
11N40SISO_Ant0_5710_UNII-3



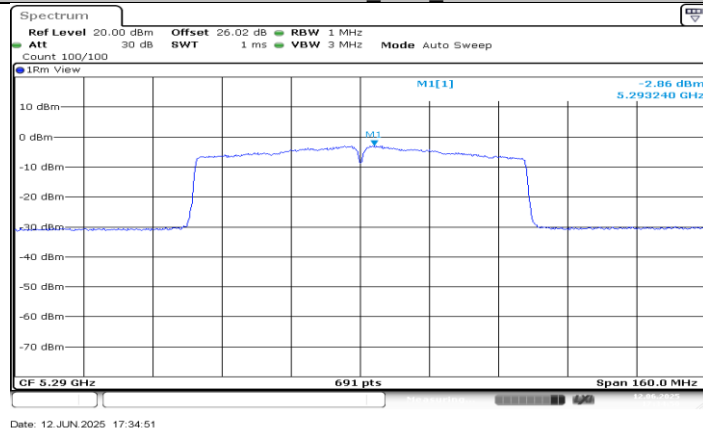
11N40SISO_Ant0_5755



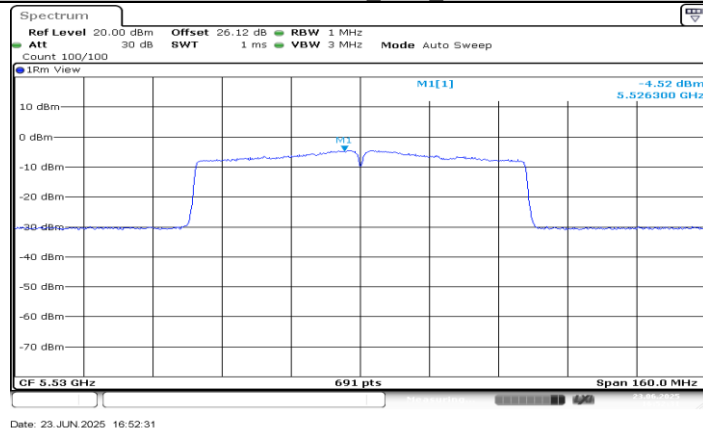
11N40SISO_Ant0_5795



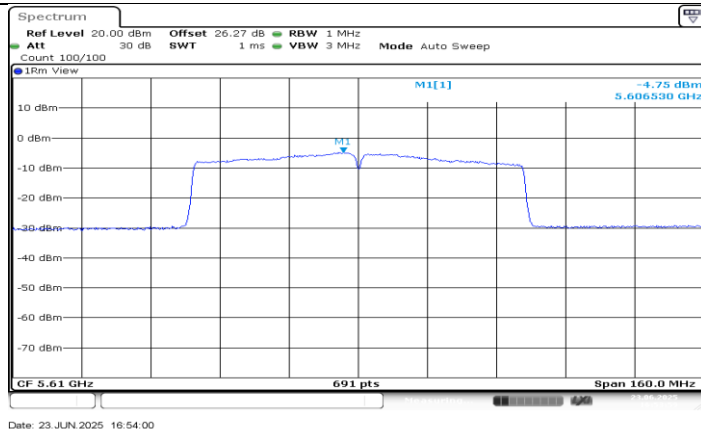
11AC80SISO_Ant0_5210



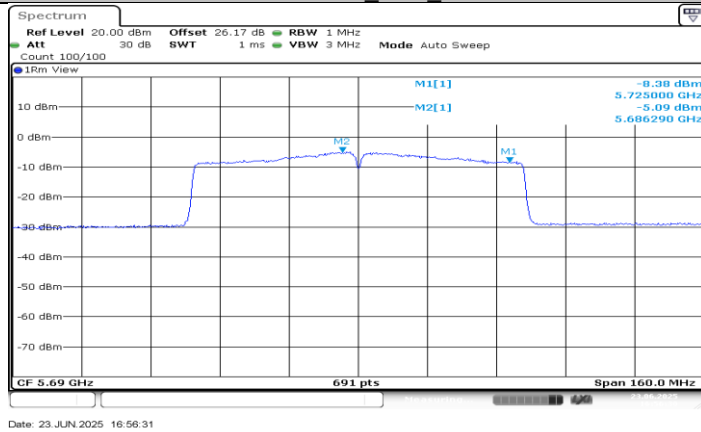
11AC80SISO_Ant0_5290



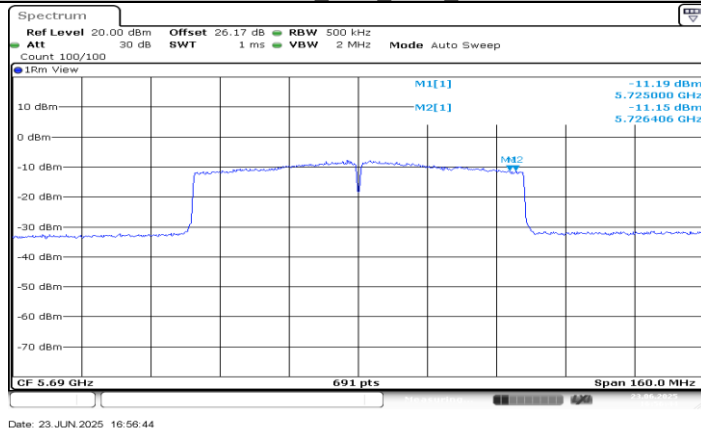
11AC80SISO_Ant0_5530



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:

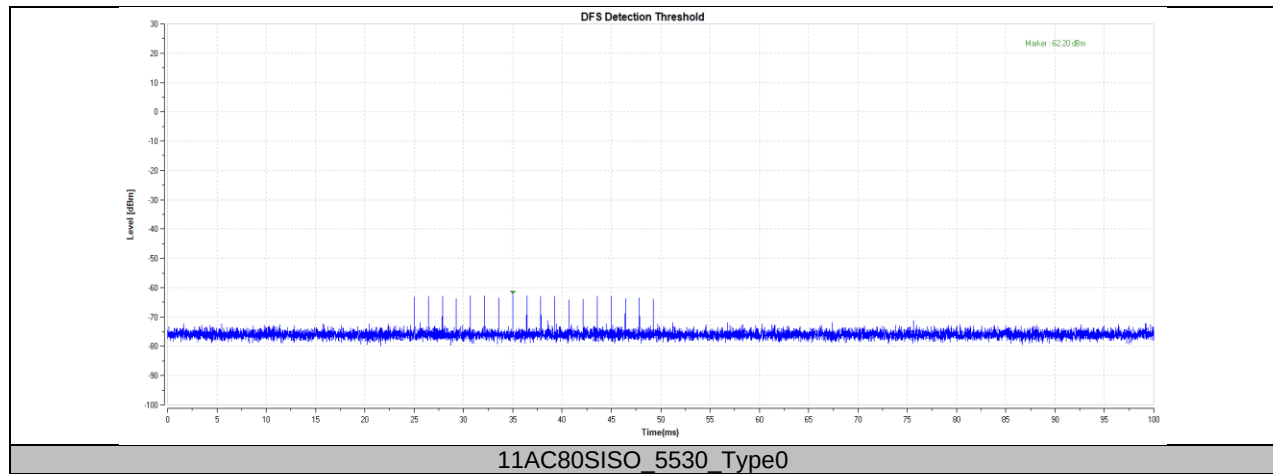
1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

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

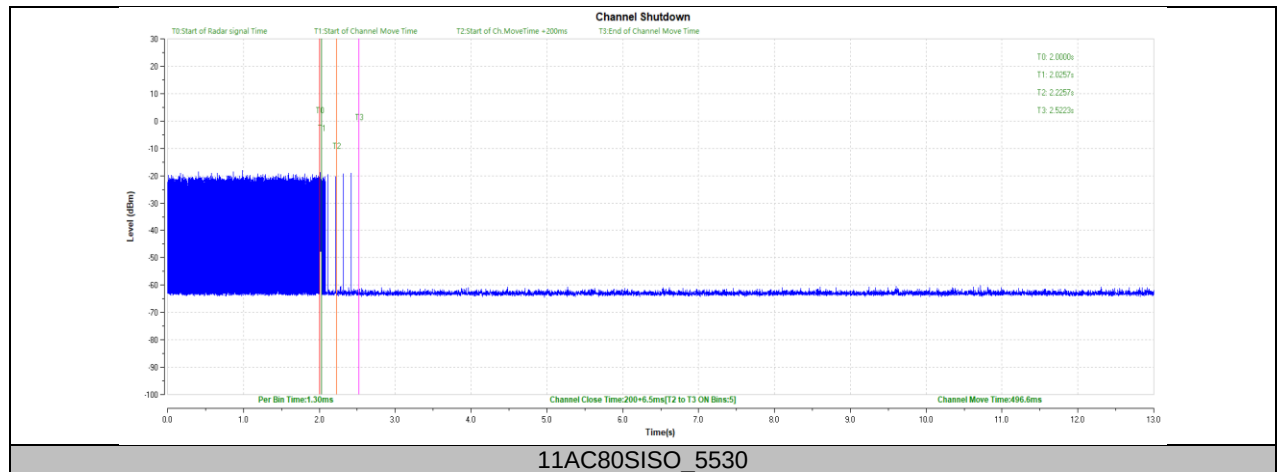


11.8. APPENDIX H1: CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

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

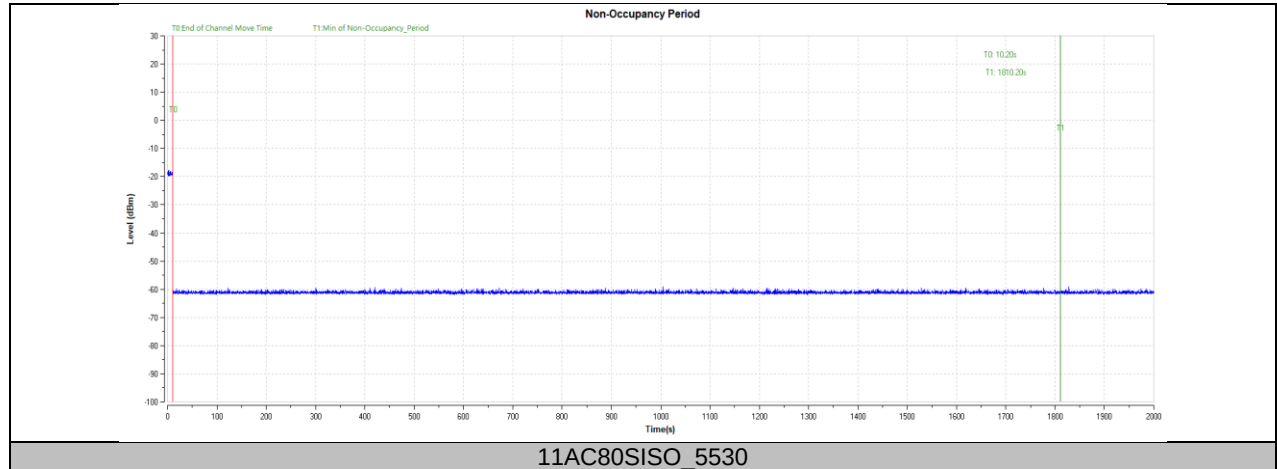


11.9. APPENDIX I1: NON-OCCUPANCY PERIOD

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= $10\log(1/x)$.

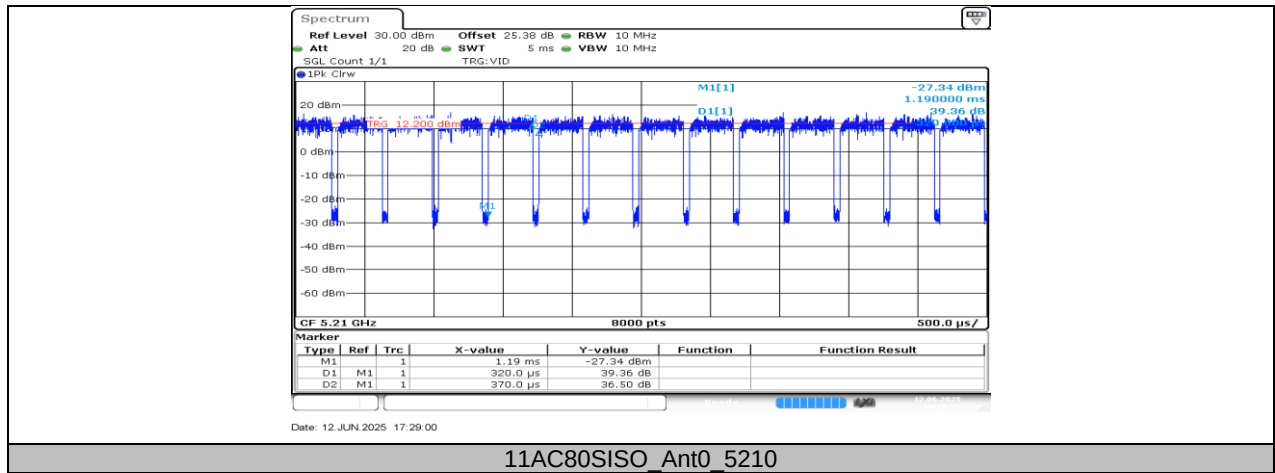
Where: x is Duty Cycle (Linear)

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





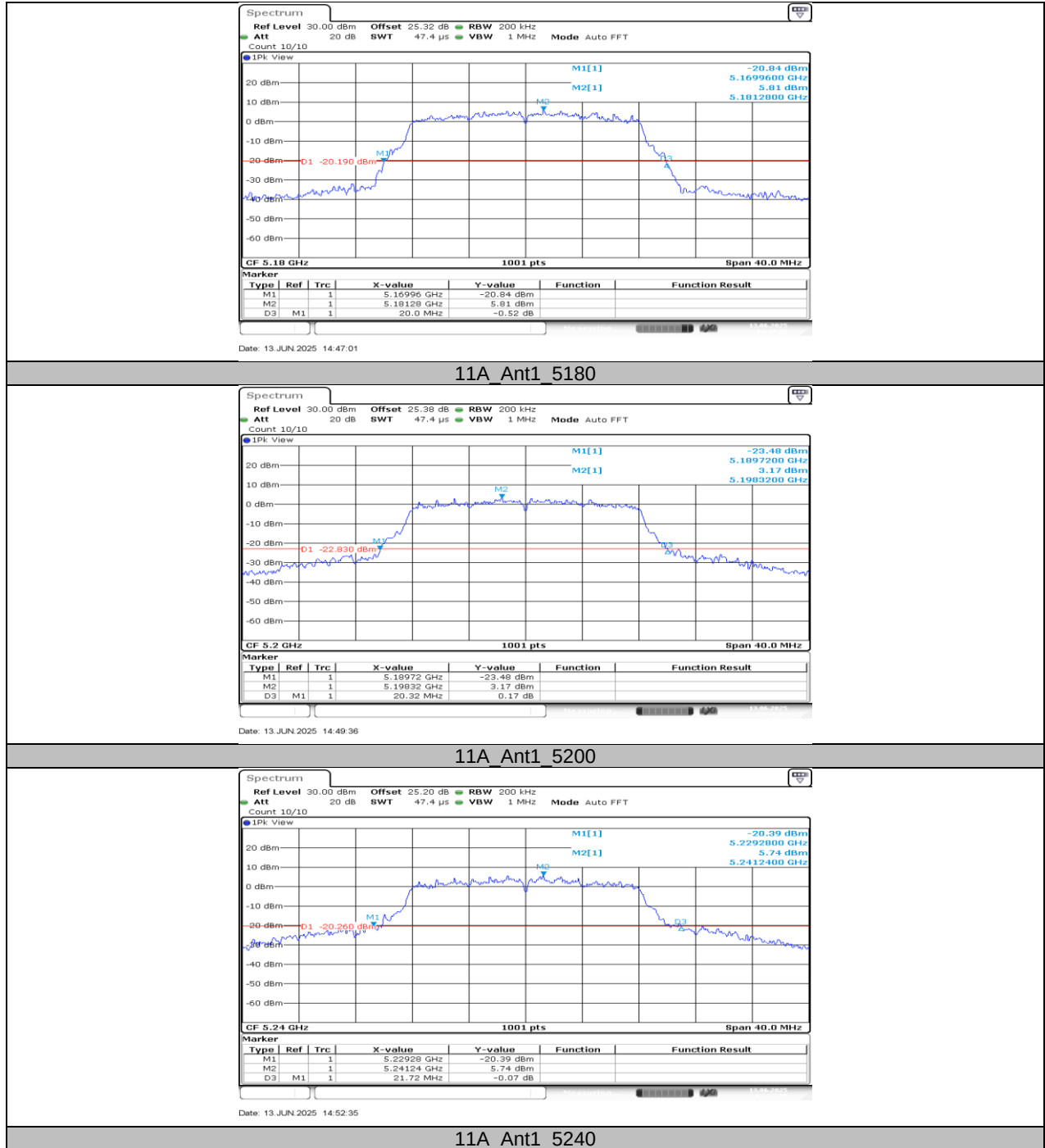
12. TEST DATA for ANT1

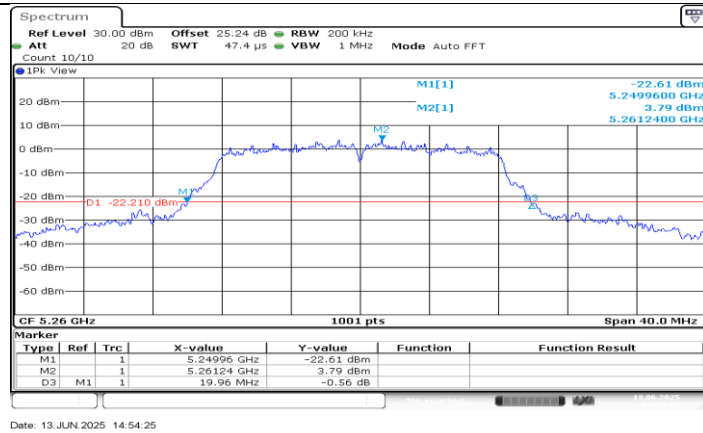
12.1. APPENDIX A2: EMISSION BANDWIDTH

12.1.1. Test Result

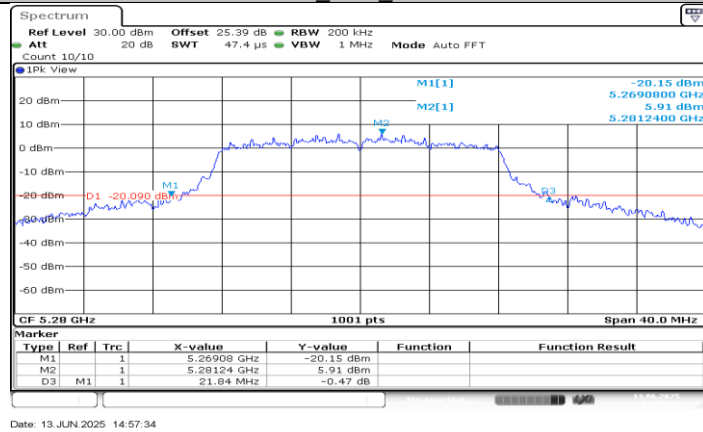
Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant1	5180	20.00	5169.96	5189.96	PASS
		5200	20.32	5189.72	5210.04	PASS
		5240	21.72	5229.28	5251.00	PASS
		5260	19.96	5249.96	5269.92	PASS
		5280	21.84	5269.08	5290.92	PASS
		5320	20.00	5310.00	5330.00	PASS
		5500	20.24	5490.08	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

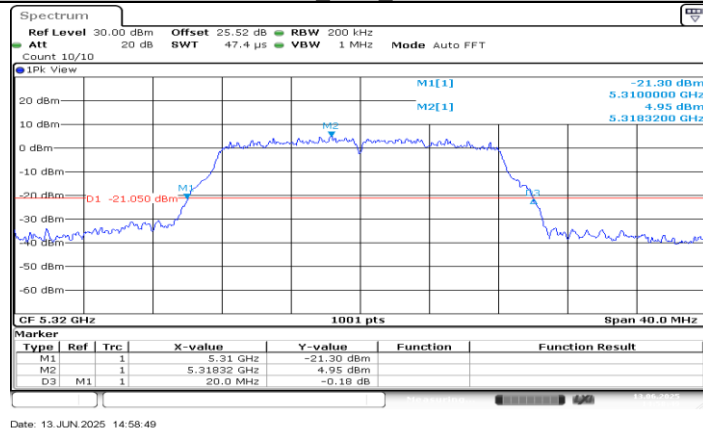




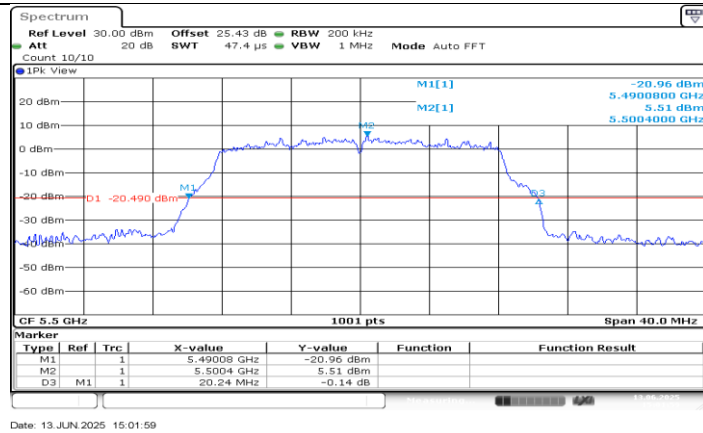
11A_Ant1_5260



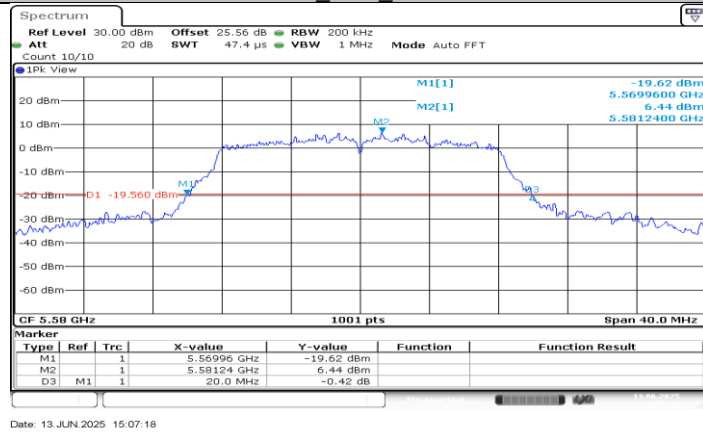
11A_Ant1_5280



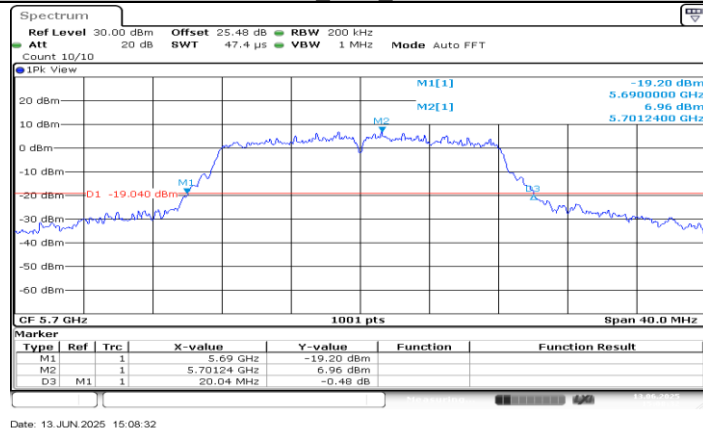
11A_Ant1_5320



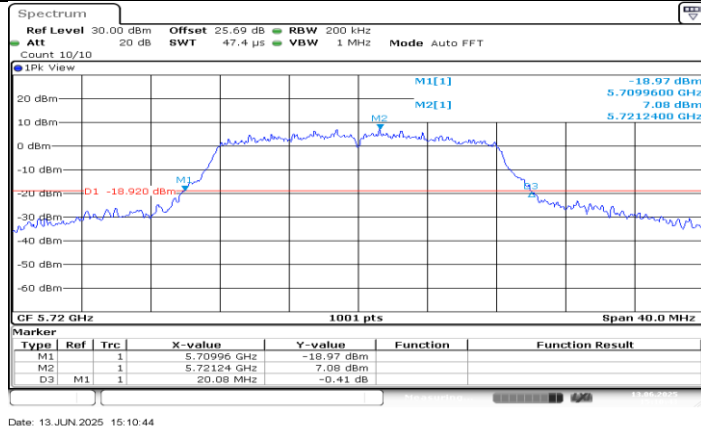
11A_Ant1_5500



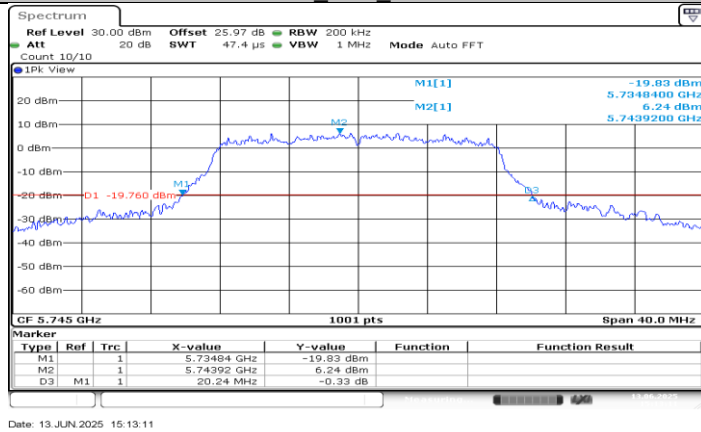
11A_Ant1_5580



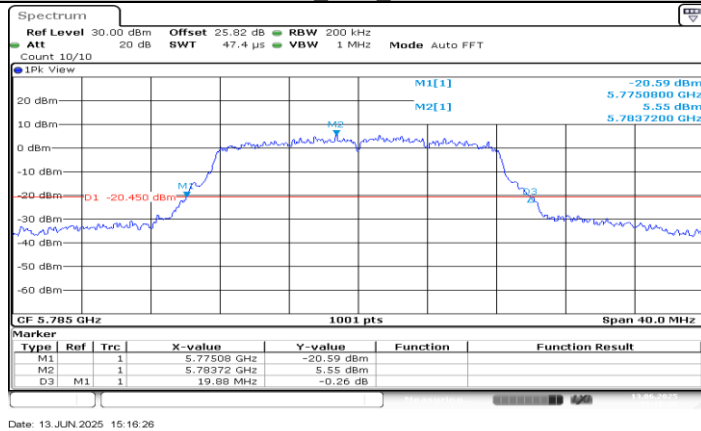
11A_Ant1_5700



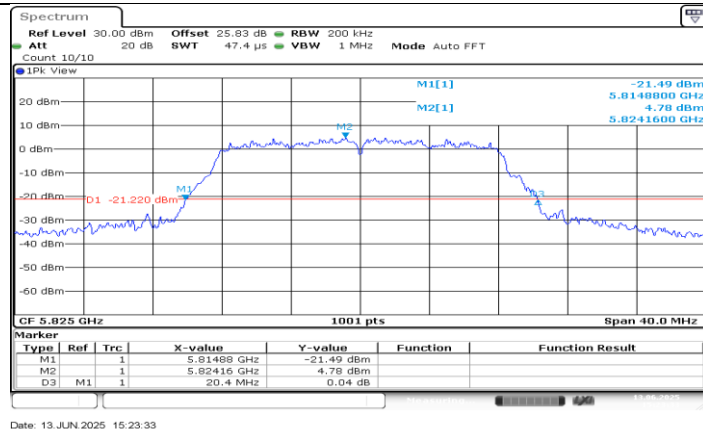
11A_Ant1_5720



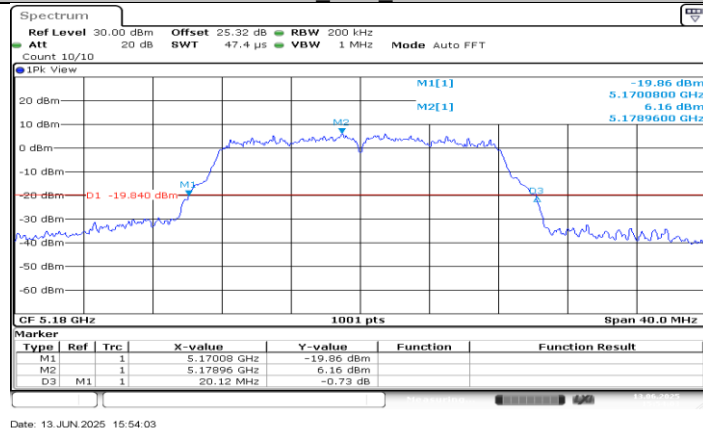
11A_Ant1_5745



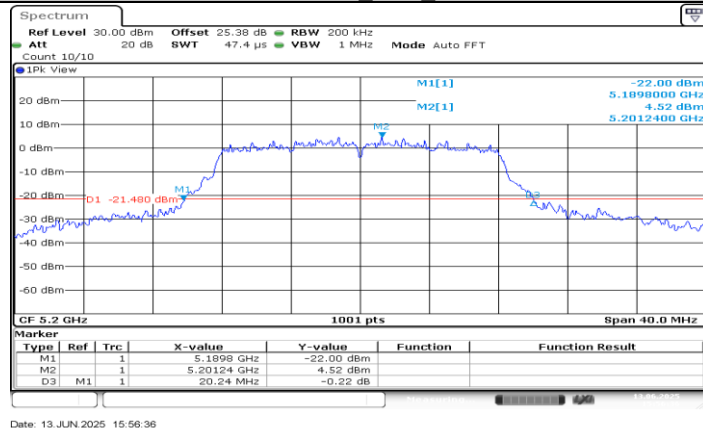
11A_Ant1_5785



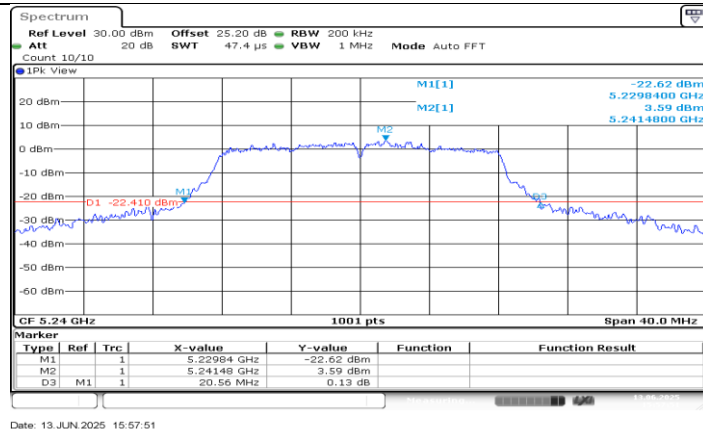
11A_Ant1_5825



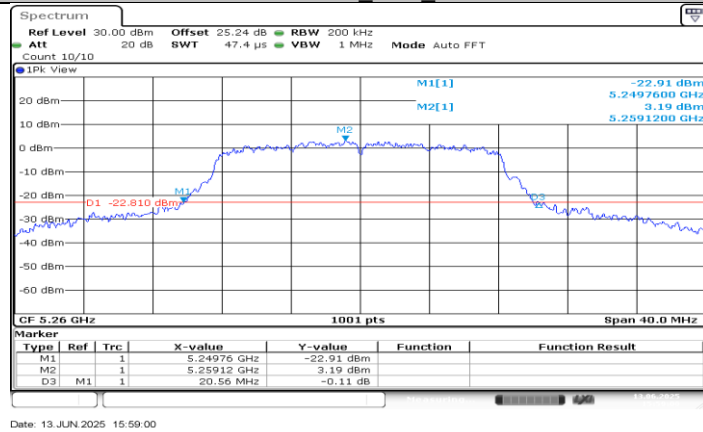
11N20SISO_Ant1_5180



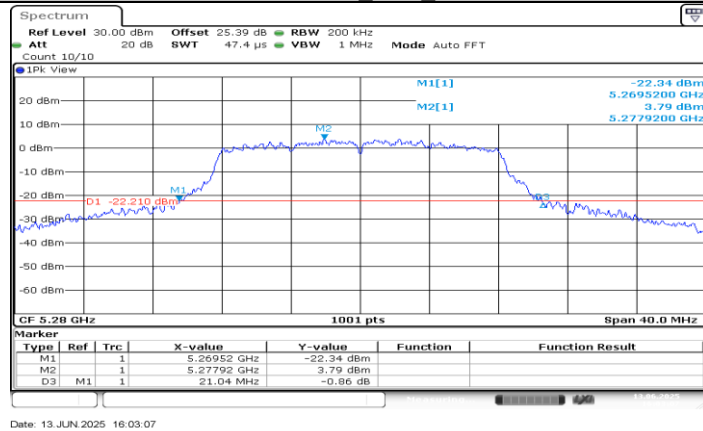
11N20SISO_Ant1_5200



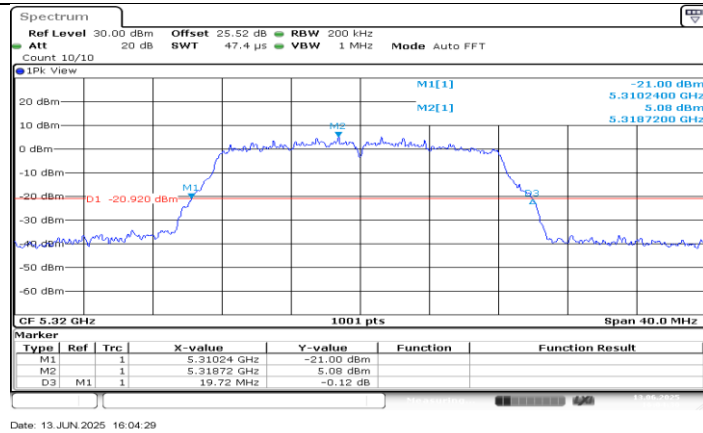
11N20SISO_Ant1_5240



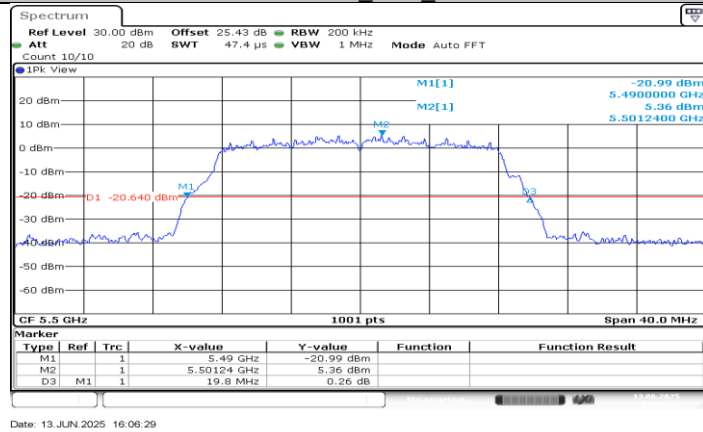
11N20SISO_Ant1_5260



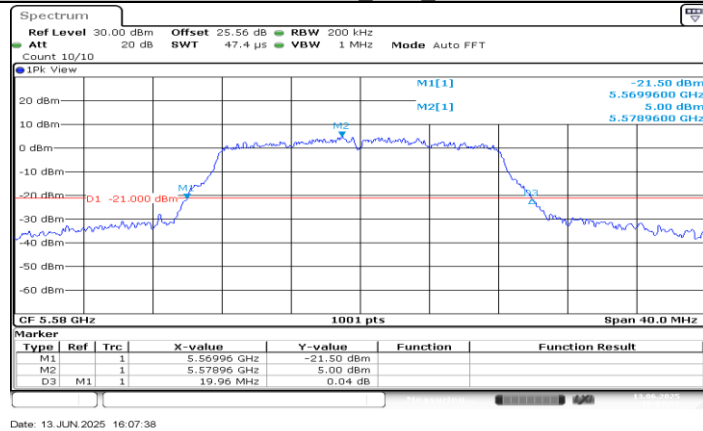
11N20SISO_Ant1_5280



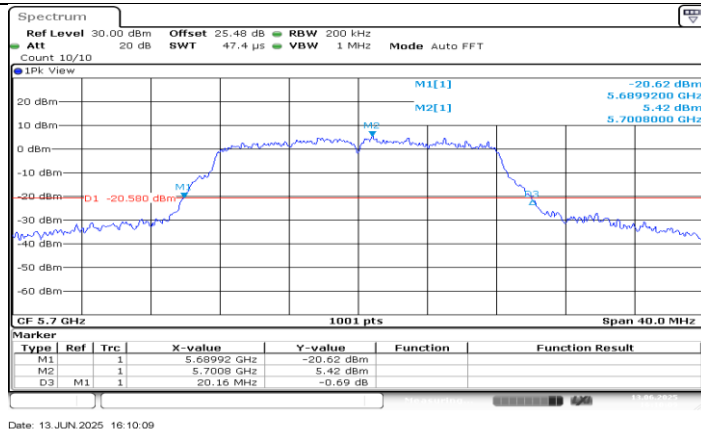
11N20SISO_Ant1_5320



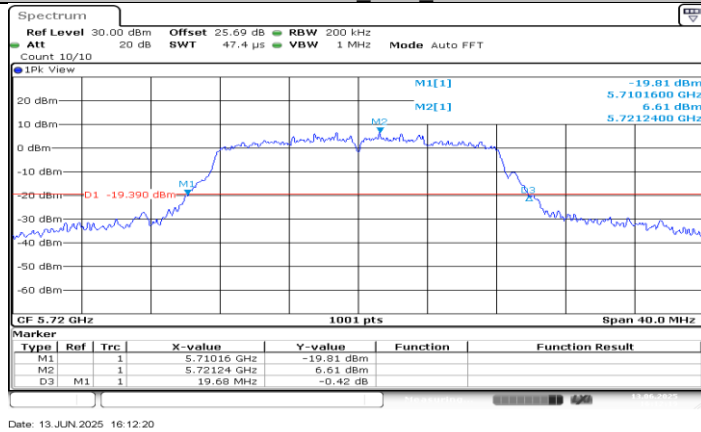
11N20SISO_Ant1_5500



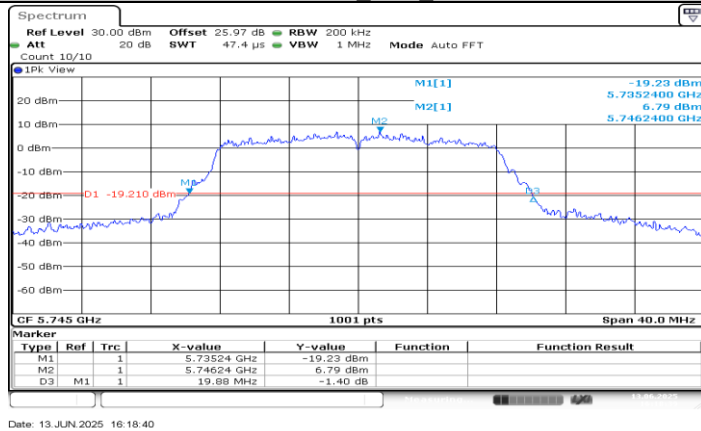
11N20SISO_Ant1_5580



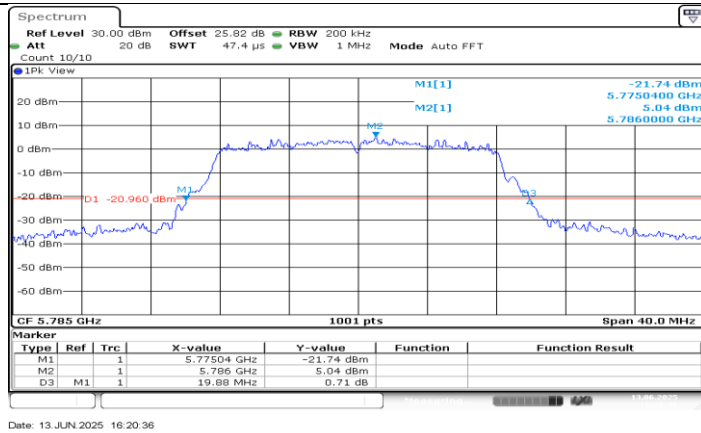
11N20SISO_Ant1_5700



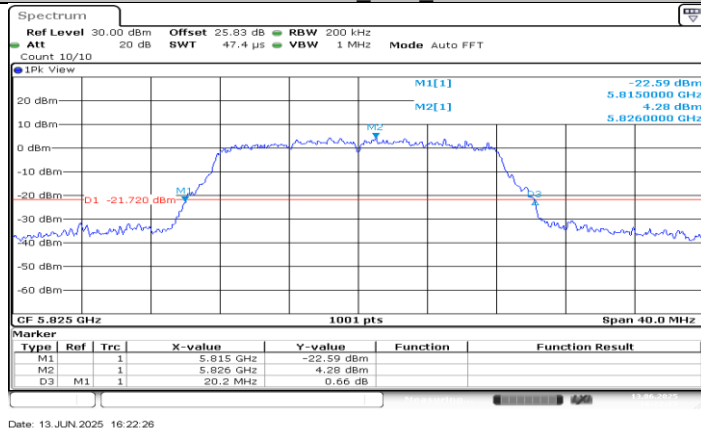
11N20SISO_Ant1_5720



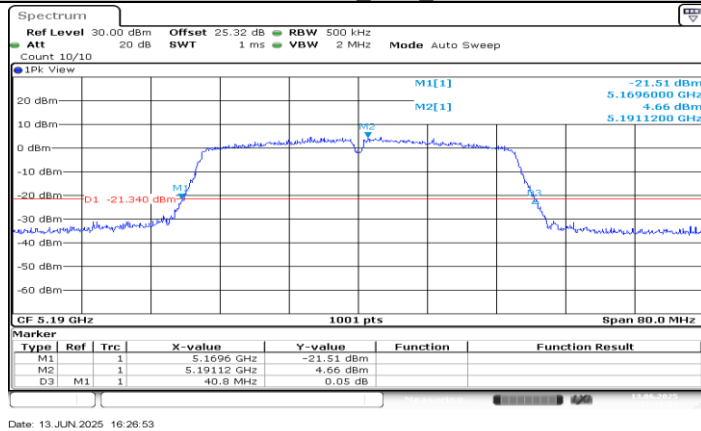
11N20SISO_Ant1_5745



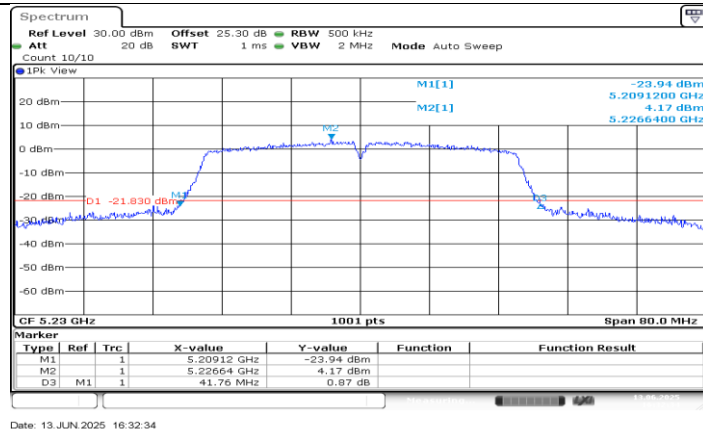
11N20SISO Ant1 5785



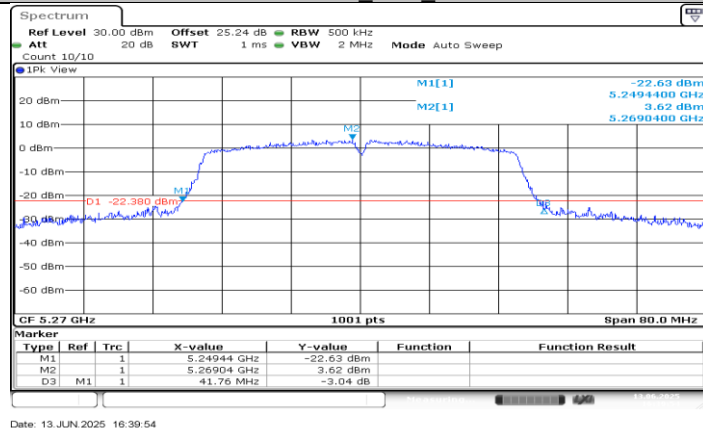
11N20SISO Ant1 5825



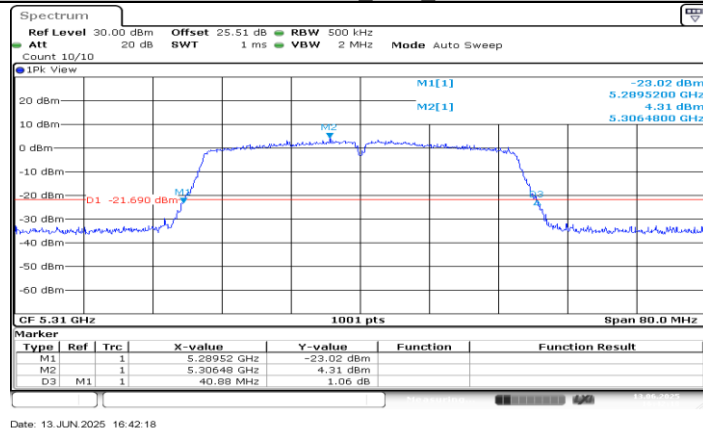
11N40SISO Ant1 5190



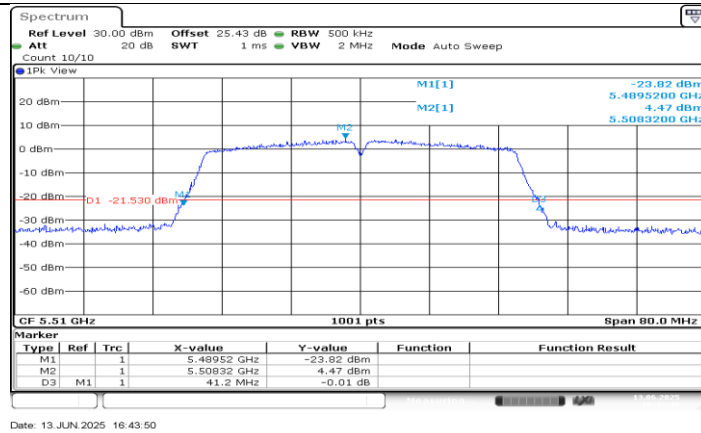
11N40SISO_Ant1_5230



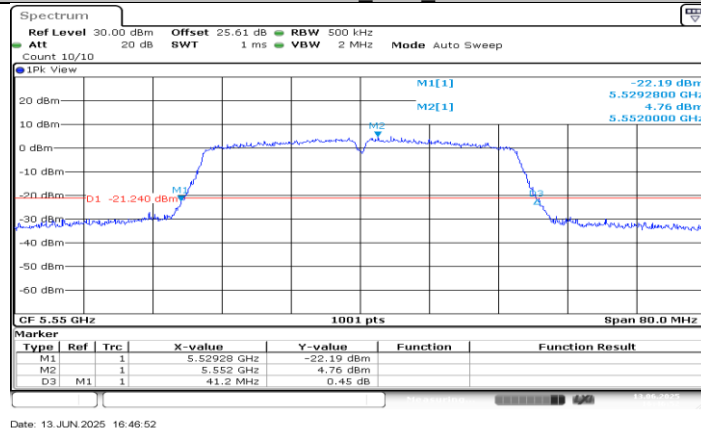
11N40SISO_Ant1_5270



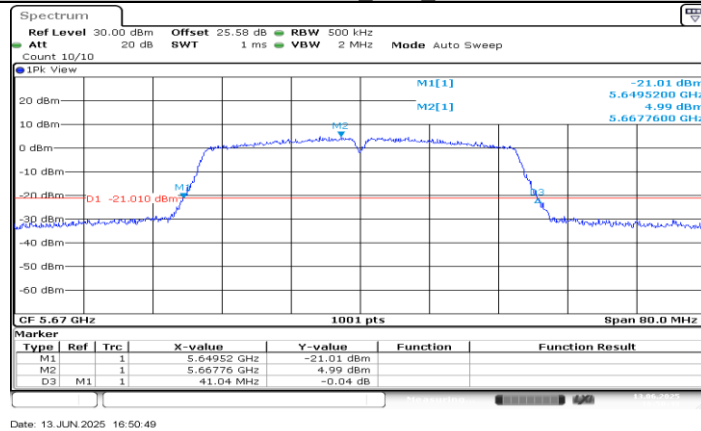
11N40SISO_Ant1_5310



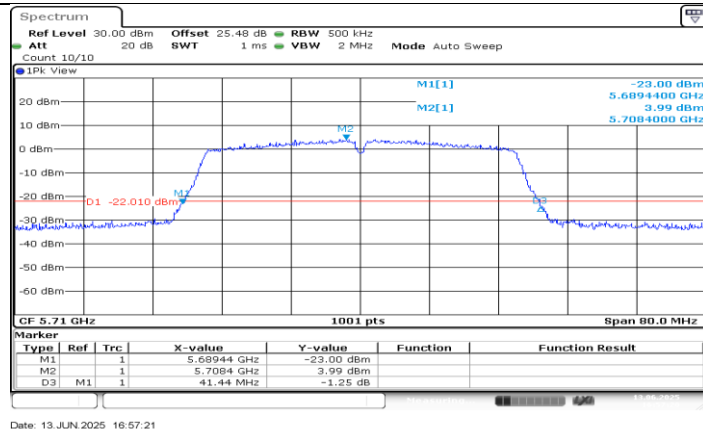
11N40SISO_Ant1_5510



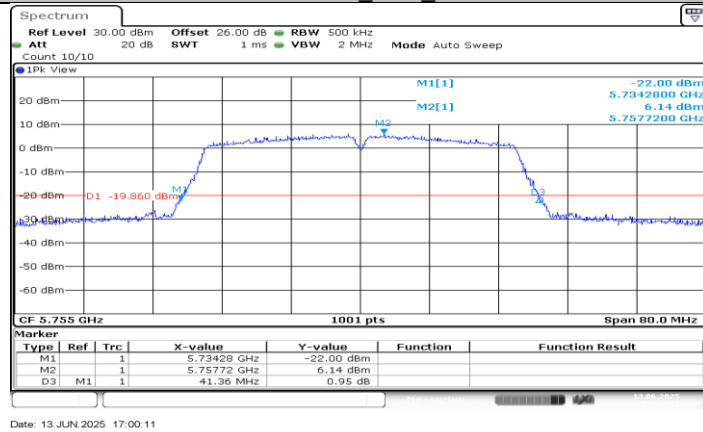
11N40SISO_Ant1_5550



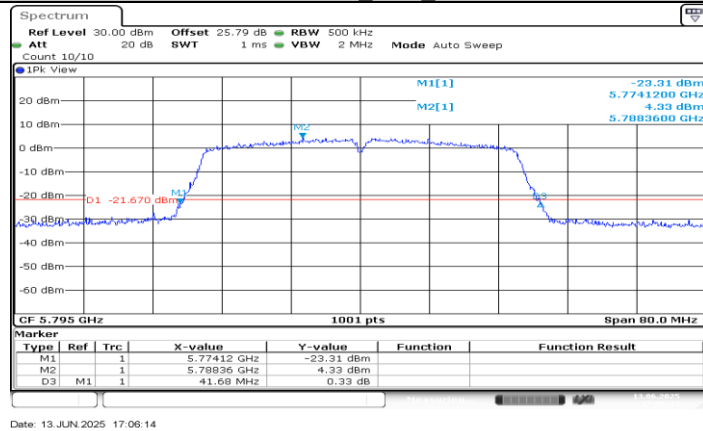
11N40SISO_Ant1_5670



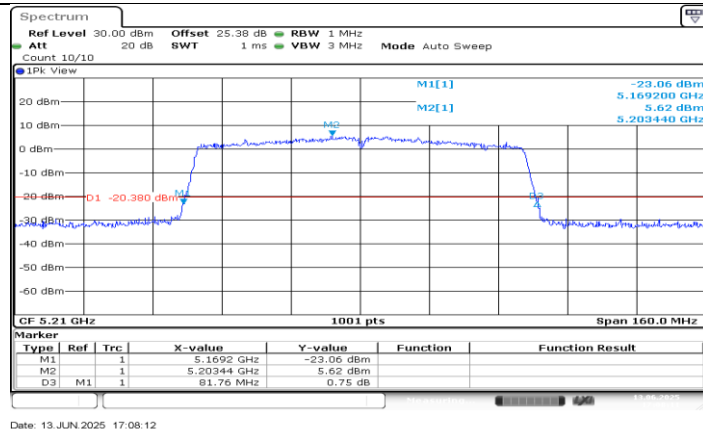
11N40SISO_Ant1_5710



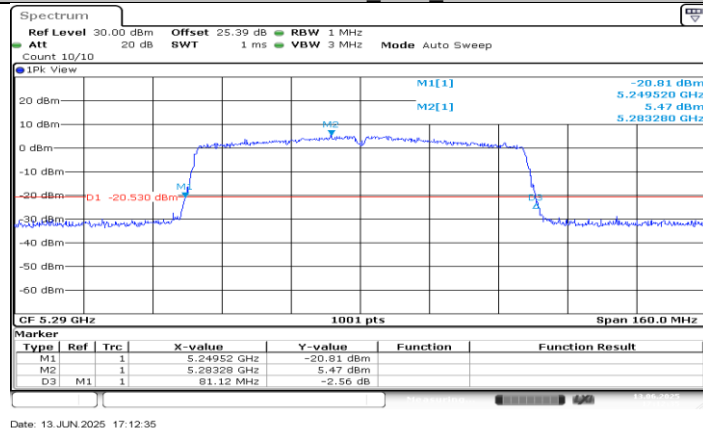
11N40SISO_Ant1_5755



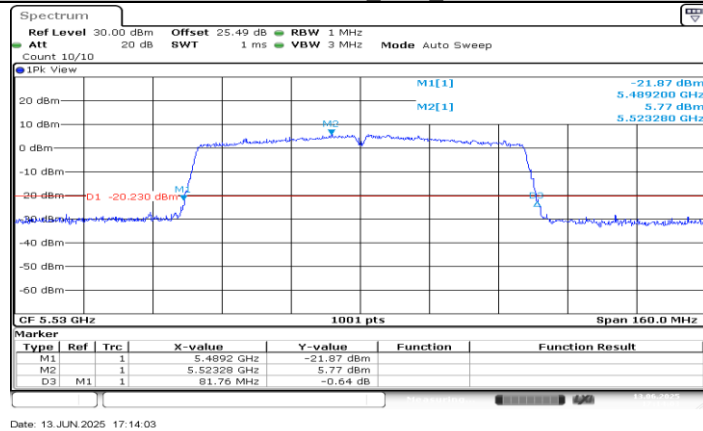
11N40SISO_Ant1_5795



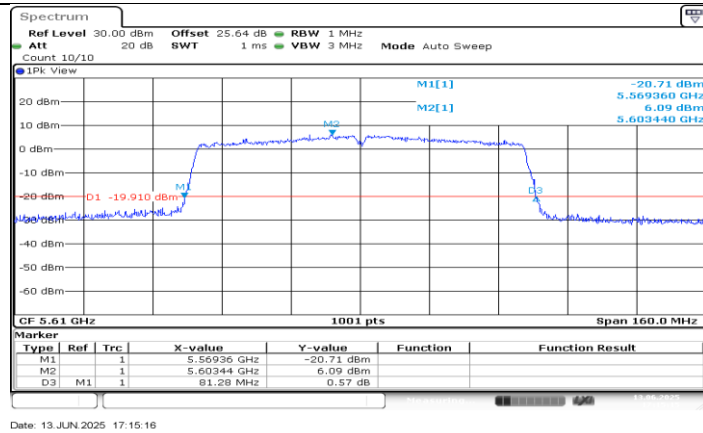
11AC80SISO_Ant1_5210



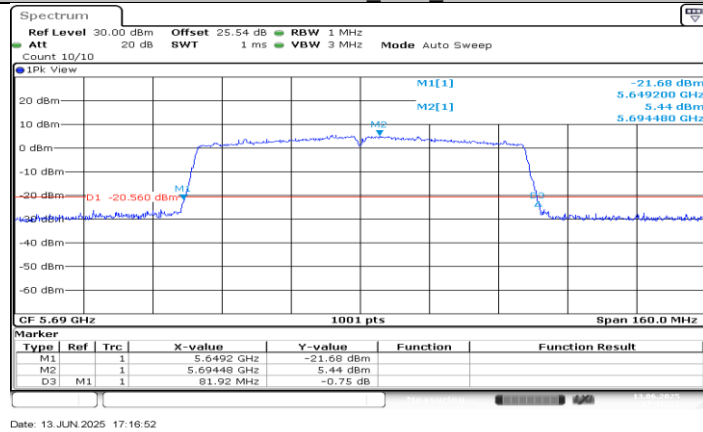
11AC80SISO_Ant1_5290



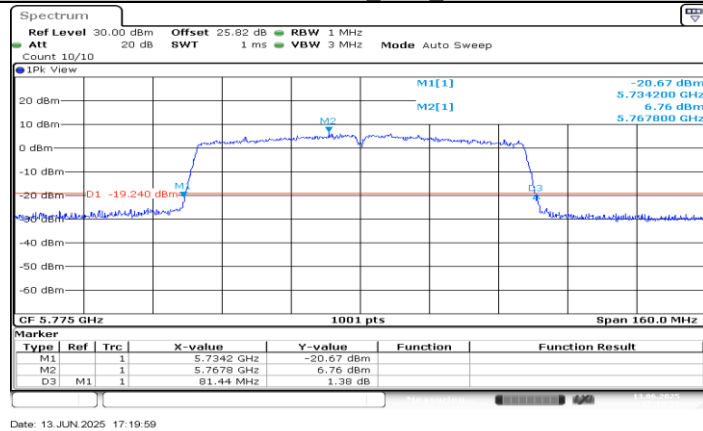
11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610



11AC80SISO_Ant1_5690



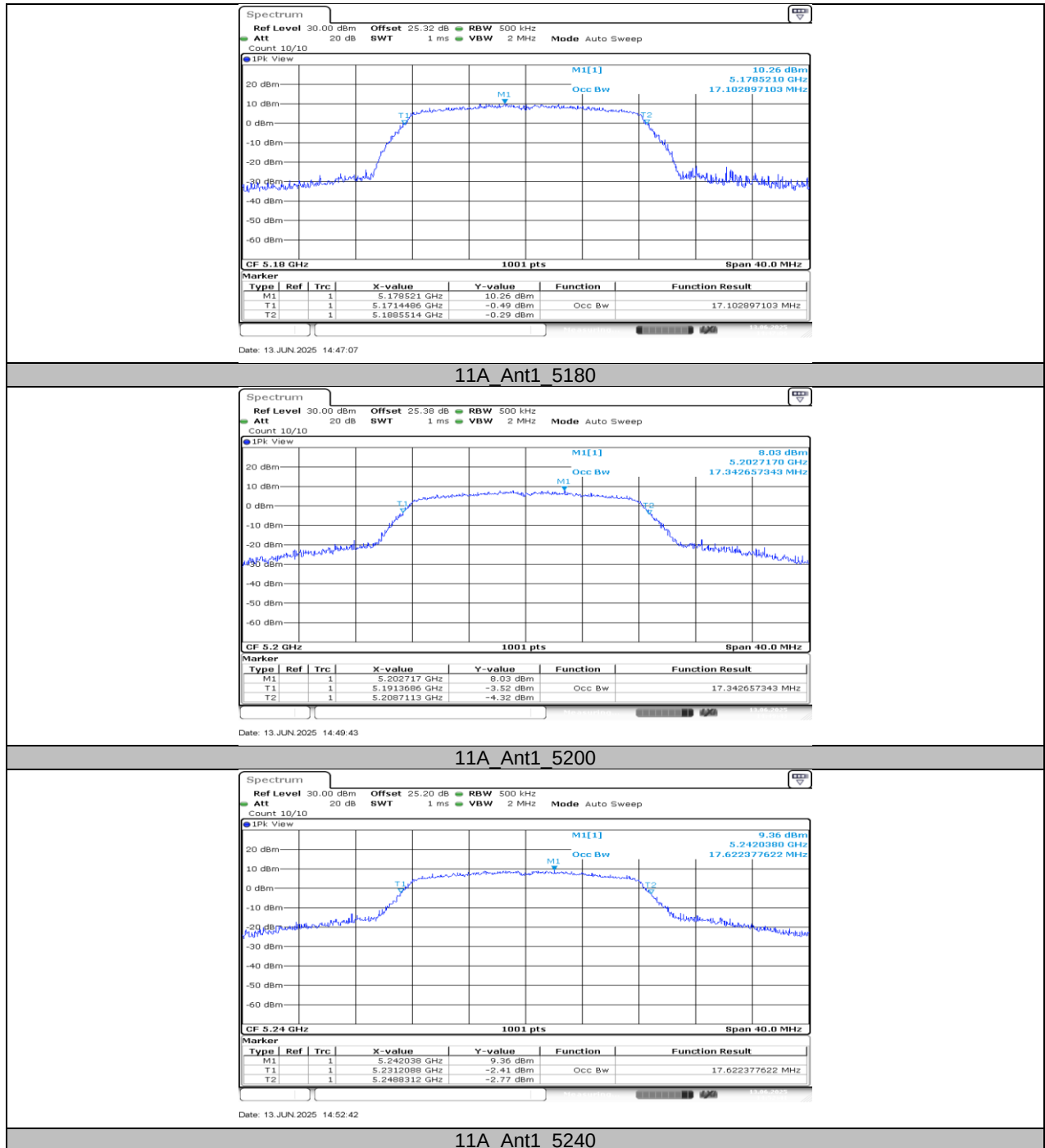
11AC80SISO_Ant1_5775

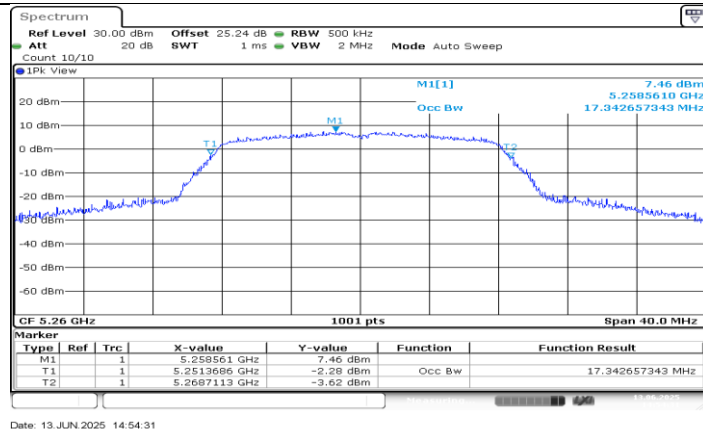
12.2. APPENDIX B2: OCCUPIED CHANNEL BANDWIDTH

12.2.1. Test Result

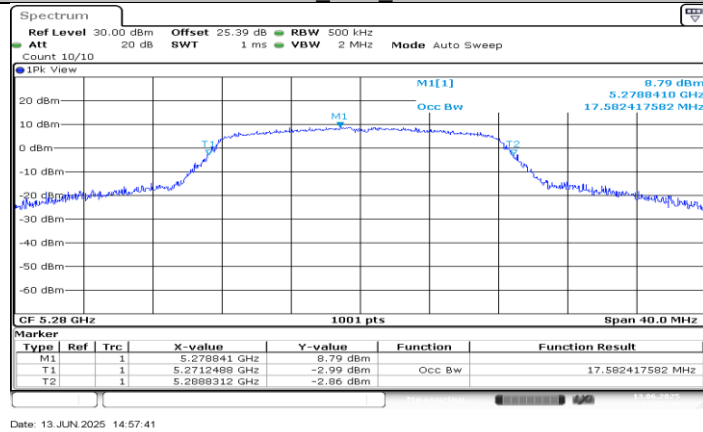
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant1	5180	17.103	5171.4486	5188.5514	PASS
		5200	17.343	5191.3686	5208.7113	PASS
		5240	17.622	5231.2088	5248.8312	PASS
		5260	17.343	5251.3686	5268.7113	PASS
		5280	17.582	5271.2488	5288.8312	PASS
		5320	17.183	5311.4086	5328.5914	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

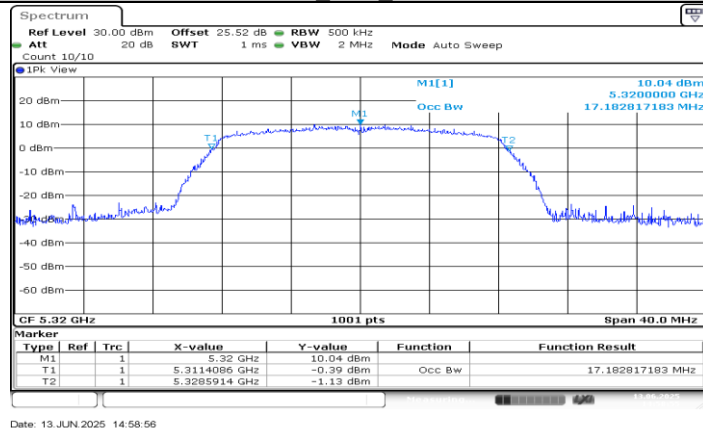




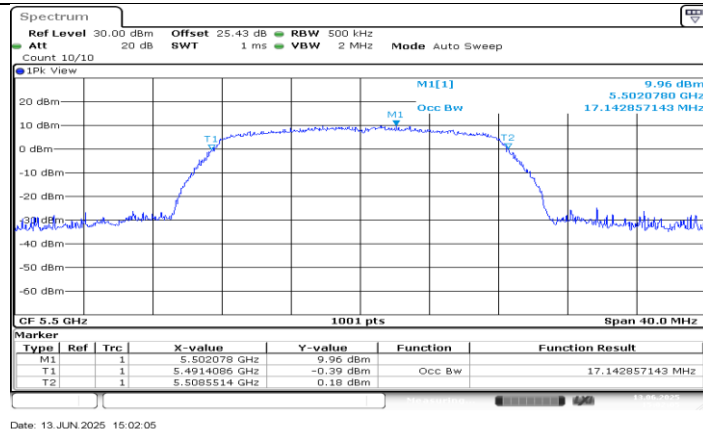
11A_Ant1_5260



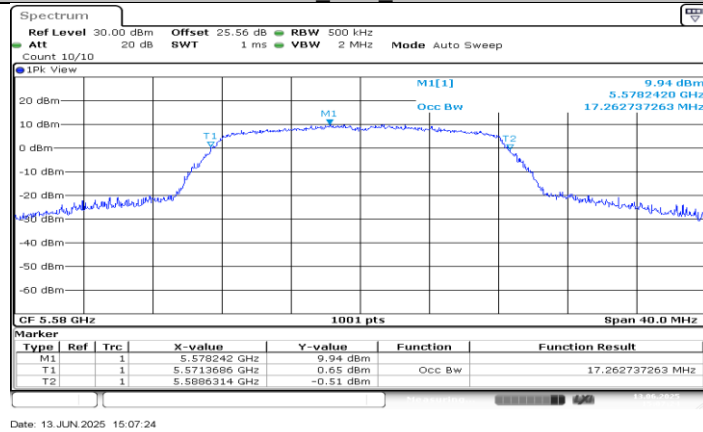
11A_Ant1_5280



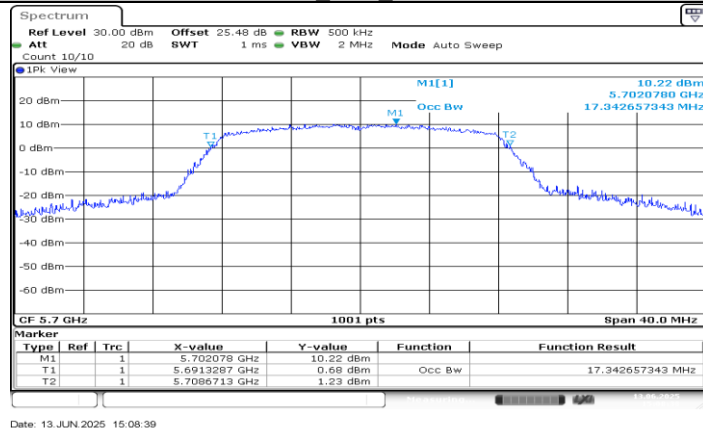
11A_Ant1_5320



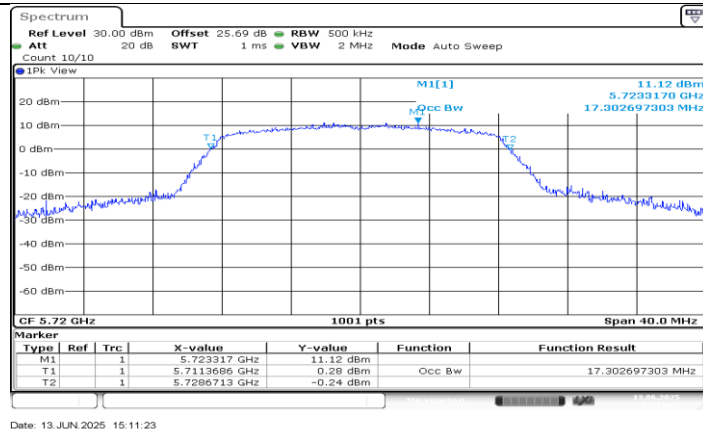
11A Ant1 5500



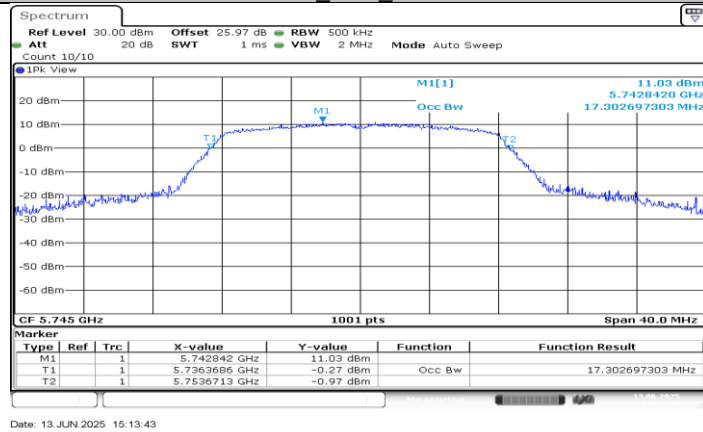
11A Ant1 5580



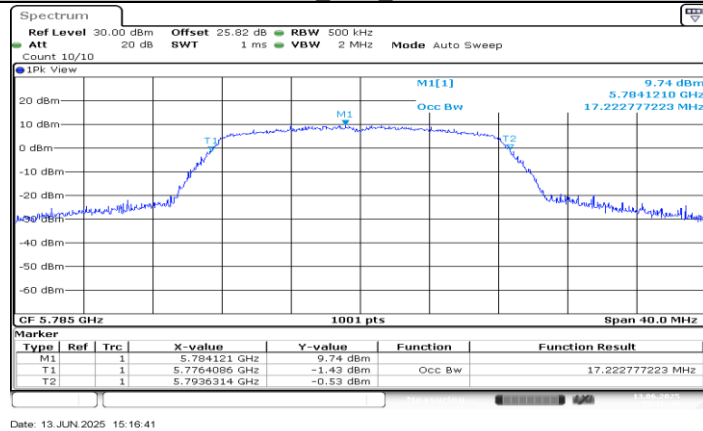
11A Ant1 5700



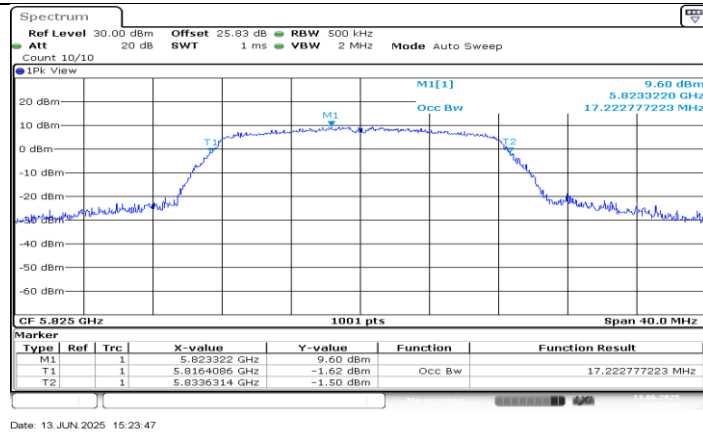
11A_Ant1_5720



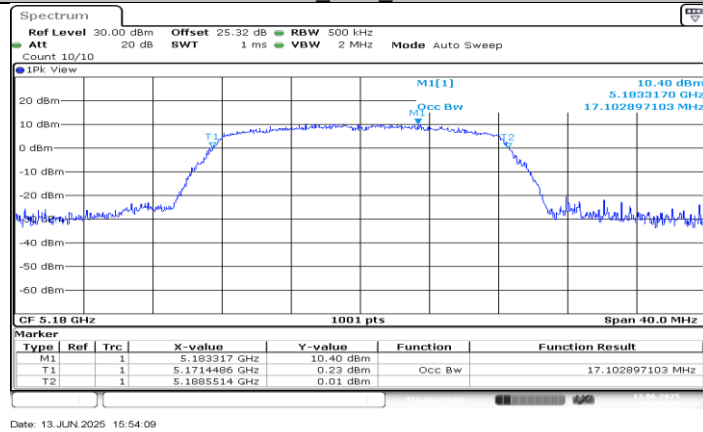
11A_Ant1_5745



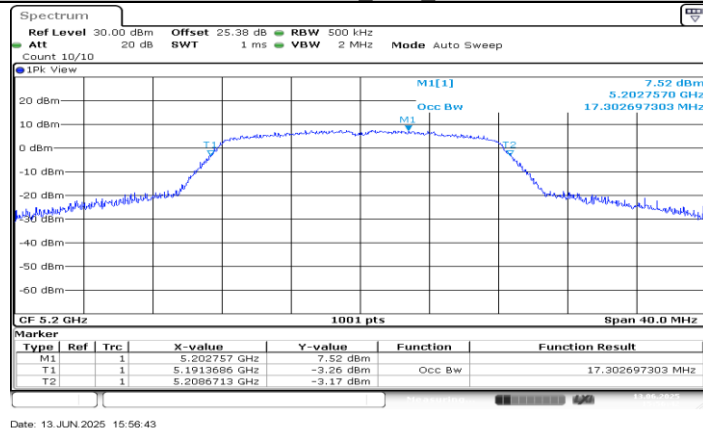
11A_Ant1_5785



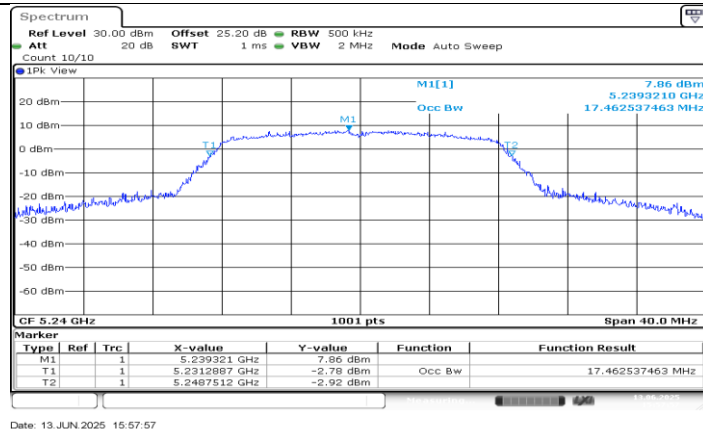
11A_Ant1_5825



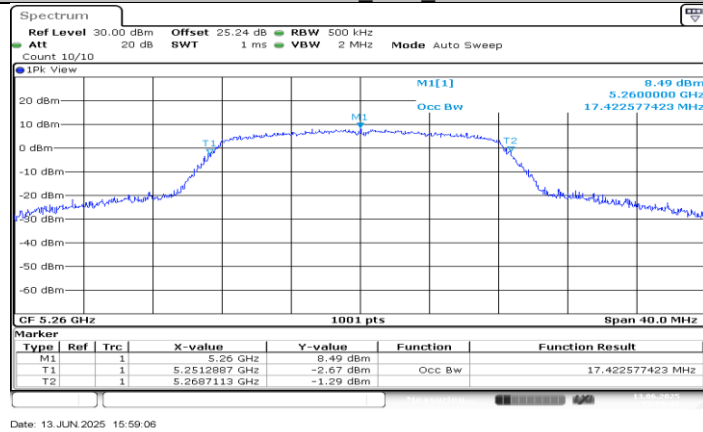
11N20SISO_Ant1_5180



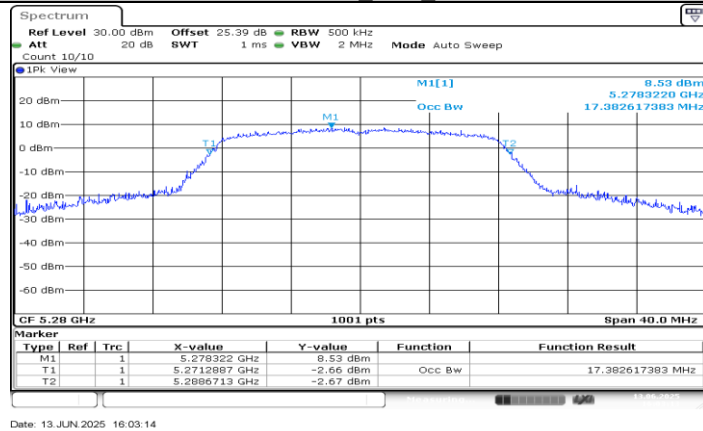
11N20SISO_Ant1_5200



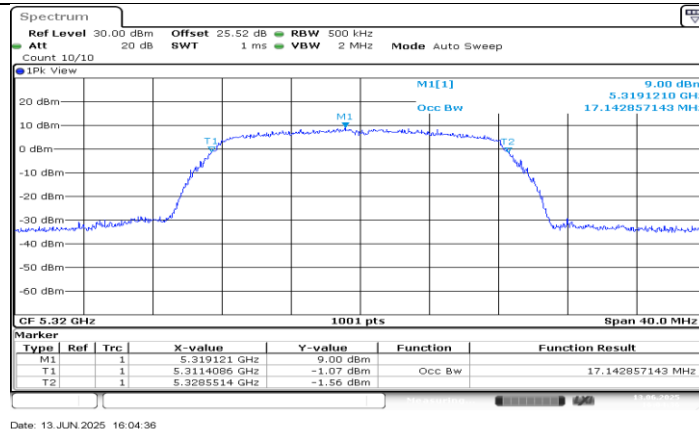
11N20SISO_Ant1_5240



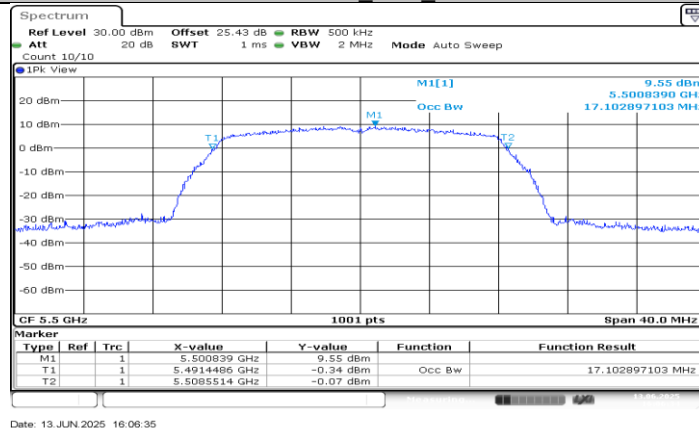
11N20SISO_Ant1_5260



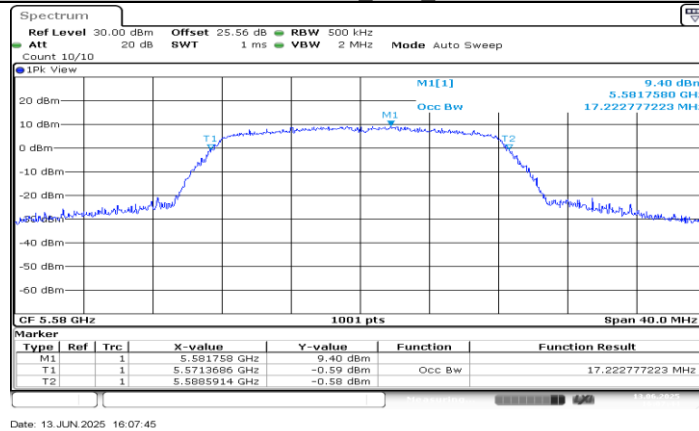
11N20SISO_Ant1_5280



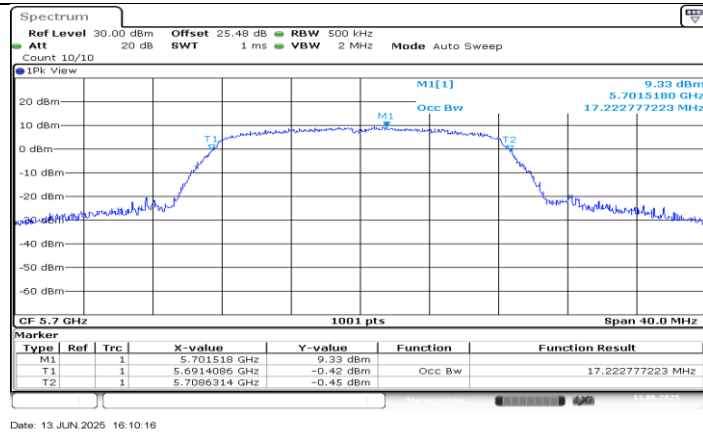
11N20SISO_Ant1_5320



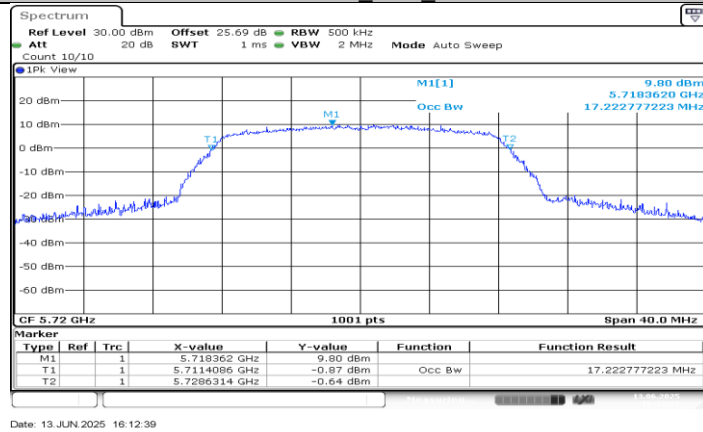
11N20SISO_Ant1_5500



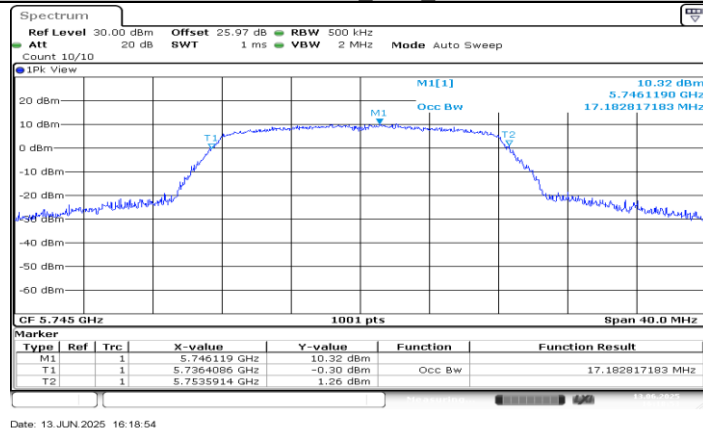
11N20SISO_Ant1_5580



11N20SISO_Ant1_5700



11N20SISO_Ant1_5720



11N20SISO_Ant1_5745