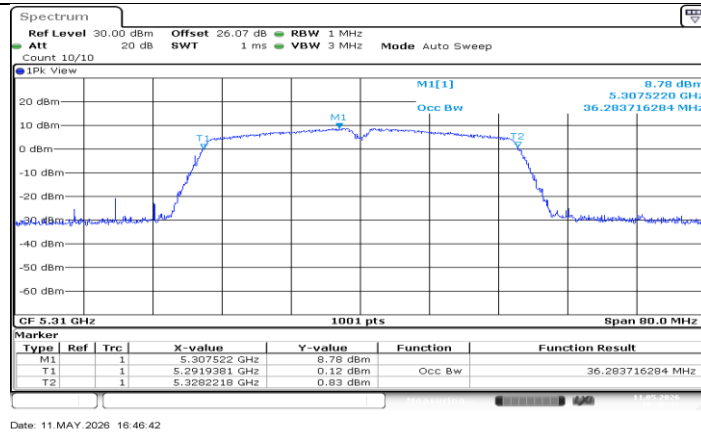
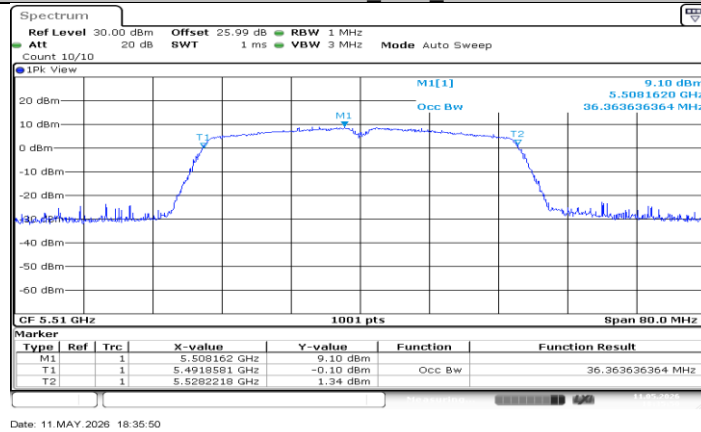
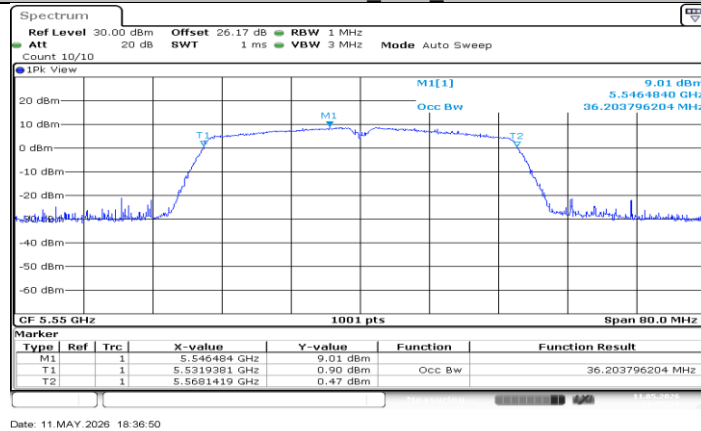




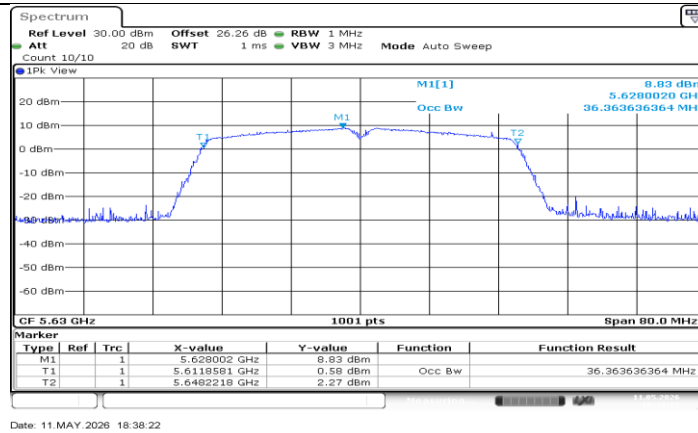
11AC40SISO_Ant1_5310



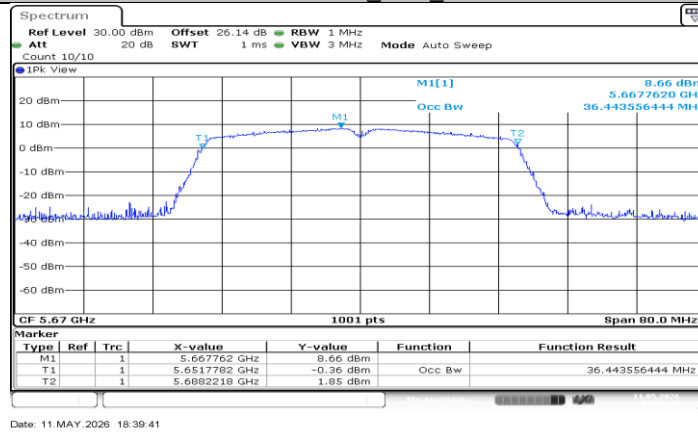
11AC40SISO_Ant1_5510



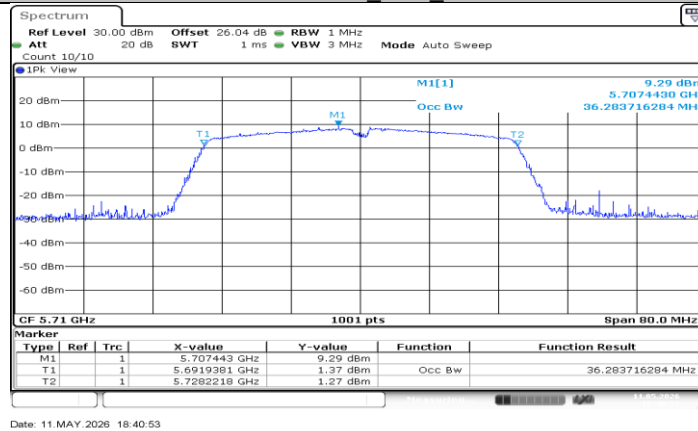
11AC40SISO_Ant1_5550



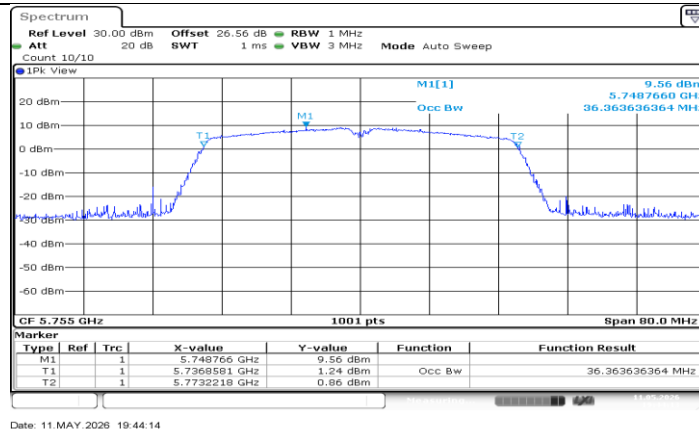
11AC40SISO_Ant1_5630



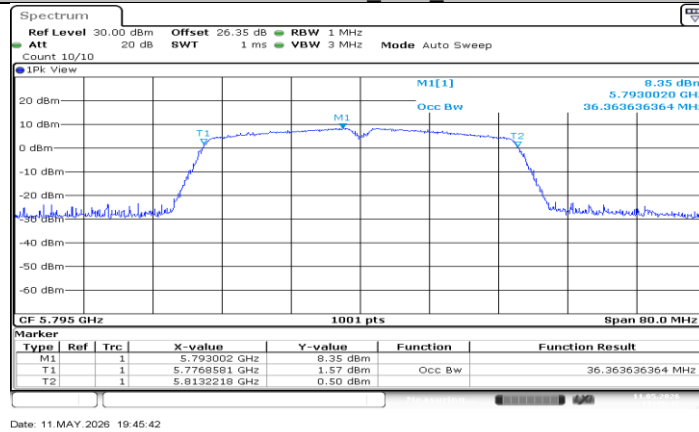
11AC40SISO_Ant1_5670



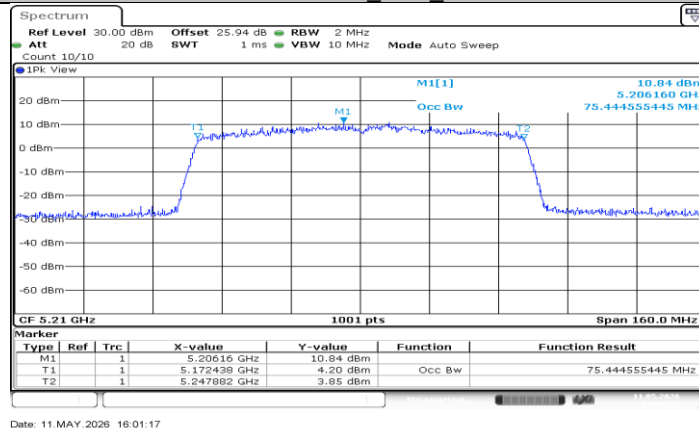
11AC40SISO_Ant1_5710



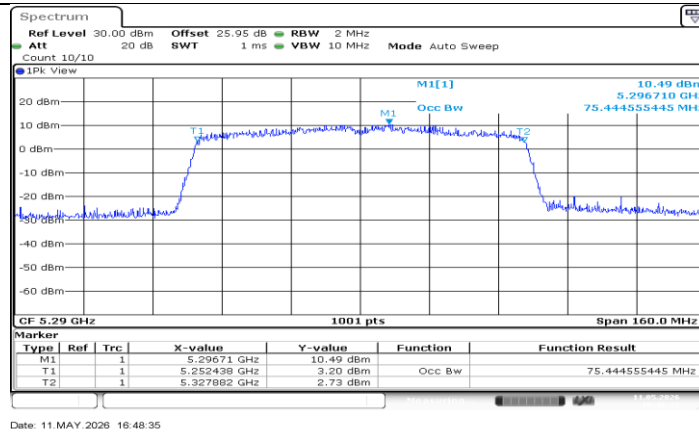
11AC40SISO_Ant1_5755



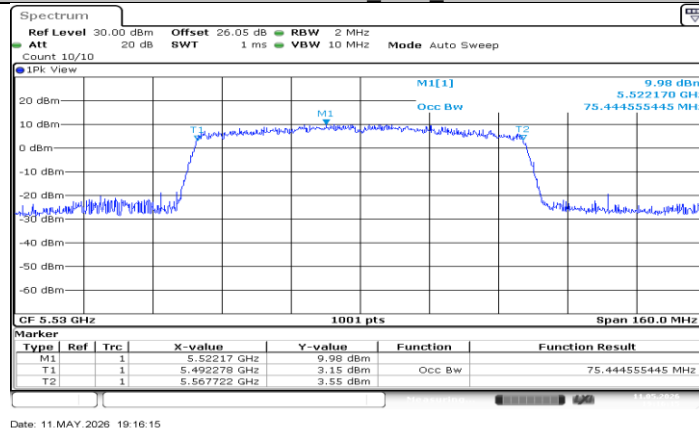
11AC40SISO_Ant1_5795



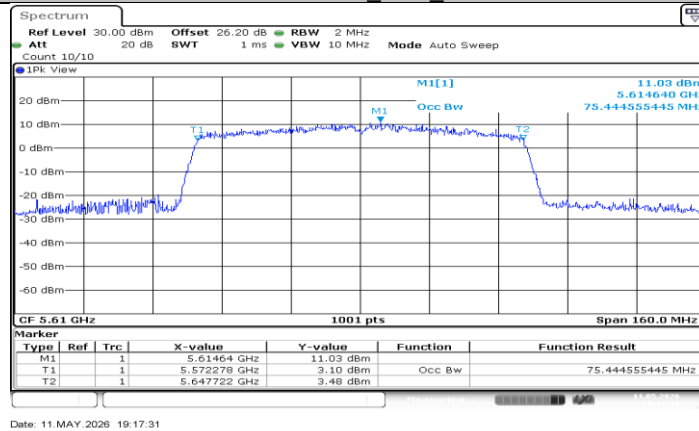
11AC80SISO_Ant1_5210



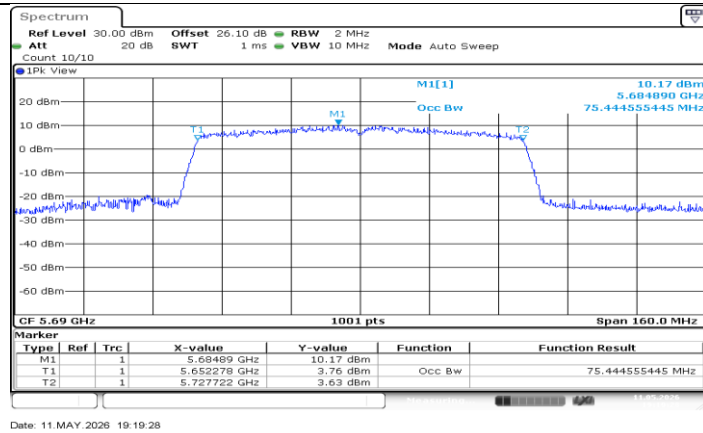
11AC80SISO_Ant1_5290



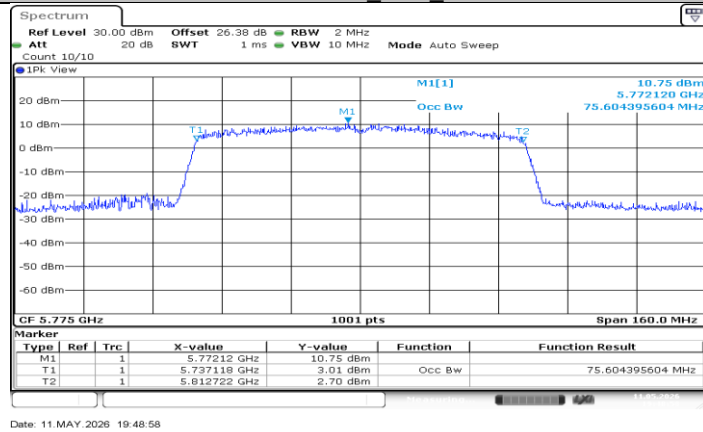
11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610



11AC80SISO_Ant1_5690



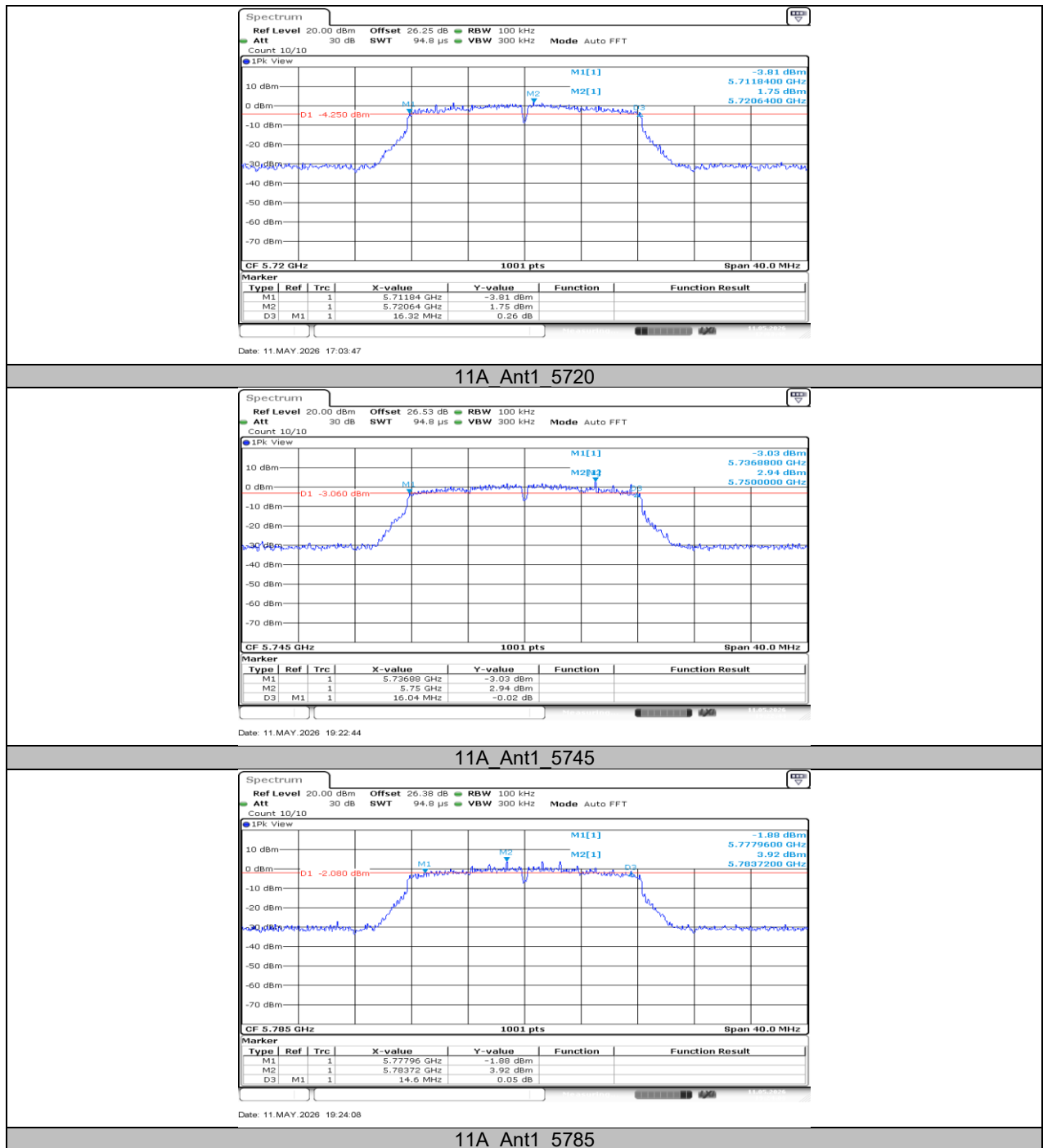
11AC80SISO_Ant1_5775

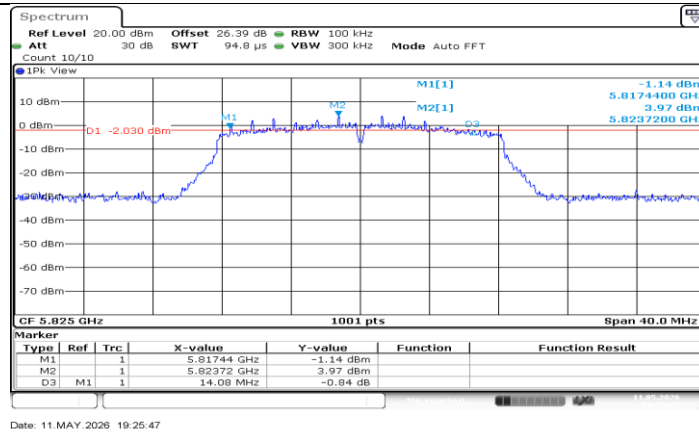
11.3. APPENDIX C: MIN EMISSION BANDWIDTH

11.3.1. Test Result

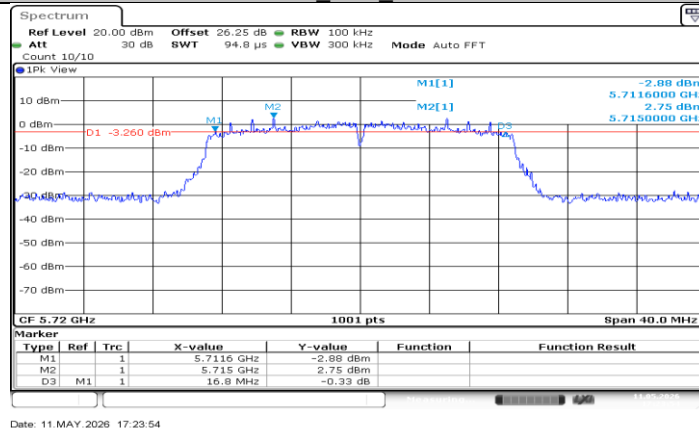
Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5720	16.32	5711.84	5728.16	---	---
		5720_UNII-2C	13.16	5711.84	5725	---	---
		5720_UNII-3	3.16	5725	5728.16	≥ 0.5	PASS
		5745	16.04	5736.88	5752.92	≥ 0.5	PASS
		5785	14.60	5777.96	5792.56	≥ 0.5	PASS
		5825	14.08	5817.44	5831.52	≥ 0.5	PASS
11N20SISO	Ant1	5720	16.80	5711.60	5728.40	---	---
		5720_UNII-2C	13.4	5711.60	5725	---	---
		5720_UNII-3	3.4	5725	5728.40	≥ 0.5	PASS
		5745	11.88	5739.40	5751.28	≥ 0.5	PASS
		5785	14.04	5778.48	5792.52	≥ 0.5	PASS
		5825	17.52	5816.24	5833.76	≥ 0.5	PASS
11N40SISO	Ant1	5710	35.12	5692.48	5727.60	---	---
		5710_UNII-2C	32.52	5692.48	5725	---	---
		5710_UNII-3	2.6	5725	5727.60	≥ 0.5	PASS
		5755	35.04	5737.48	5772.52	≥ 0.5	PASS
		5795	35.12	5777.48	5812.60	≥ 0.5	PASS
11AC20SISO	Ant1	5720	14.16	5712.48	5726.64	---	---
		5720_UNII-2C	12.52	5712.48	5725	---	---
		5720_UNII-3	1.64	5725	5726.64	≥ 0.5	PASS
		5745	15.12	5737.44	5752.56	≥ 0.5	PASS
		5785	15.36	5777.20	5792.56	≥ 0.5	PASS
		5825	13.44	5817.44	5830.88	≥ 0.5	PASS
11AC40SISO	Ant1	5710	35.12	5692.48	5727.60	---	---
		5710_UNII-2C	32.52	5692.48	5725	---	---
		5710_UNII-3	2.6	5725	5727.60	≥ 0.5	PASS
		5755	35.04	5737.48	5772.52	≥ 0.5	PASS
		5795	35.12	5777.48	5812.60	≥ 0.5	PASS
11AC80SISO	Ant1	5690	67.84	5659.76	5727.60	---	---
		5690_UNII-2C	65.24	5659.76	5725	---	---
		5690_UNII-3	2.6	5725	5727.60	≥ 0.5	PASS
		5775	66.40	5737.40	5803.80	≥ 0.5	PASS

11.3.2. Test Graphs

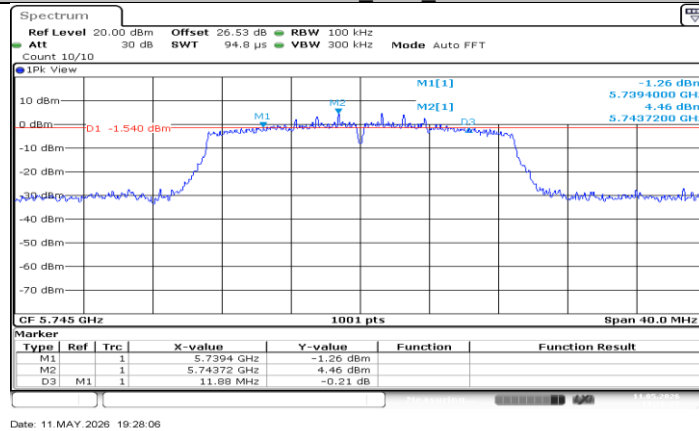




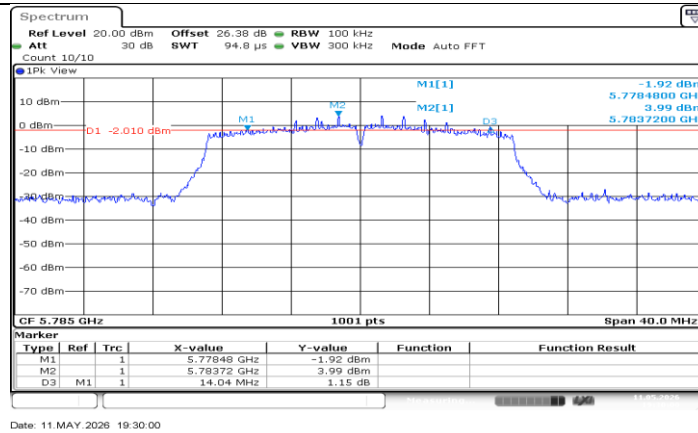
11A_Ant1_5825



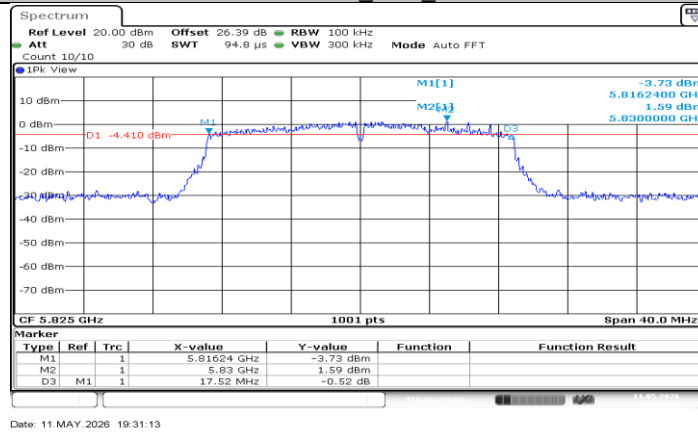
11N20SISO_Ant1_5720



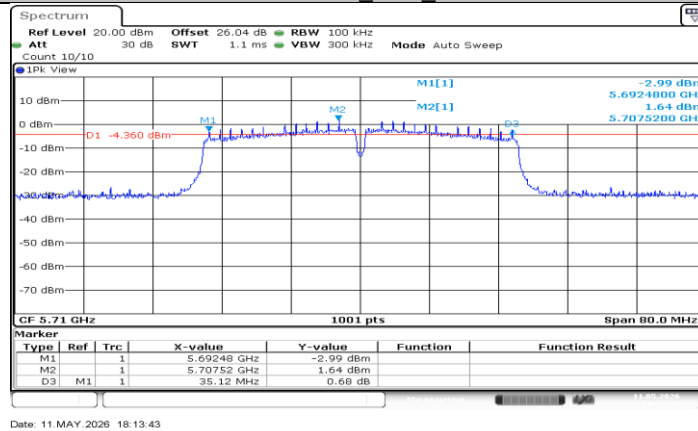
11N20SISO_Ant1_5745



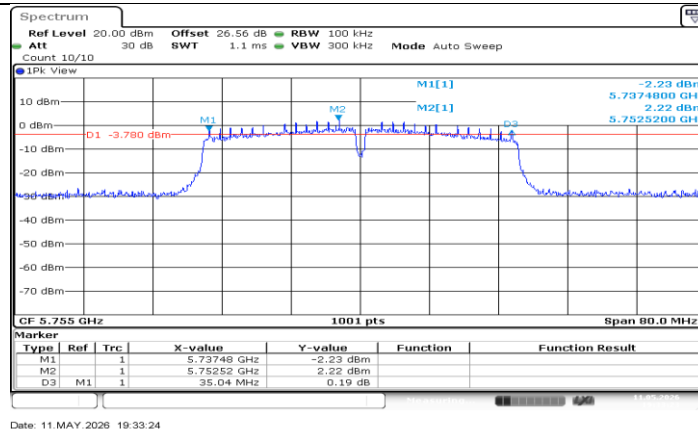
11N20SISO_Ant1_5785



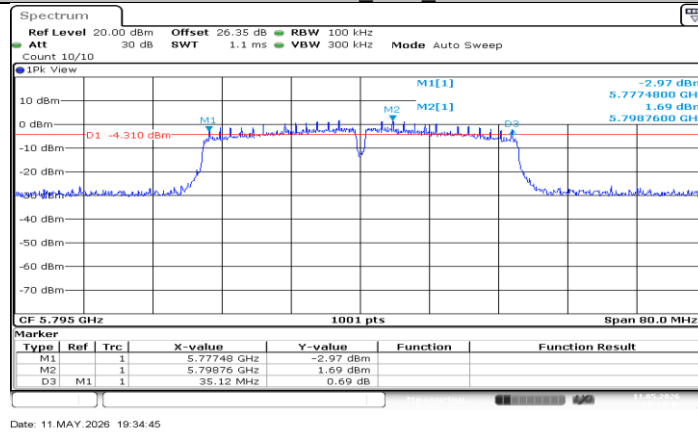
11N20SISO_Ant1_5825



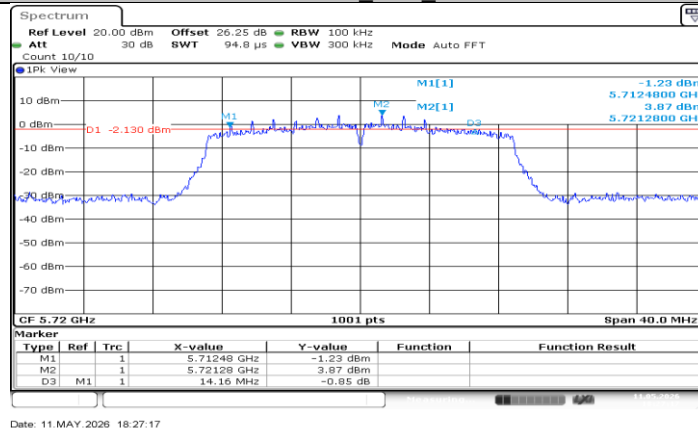
11N40SISO_Ant1_5710



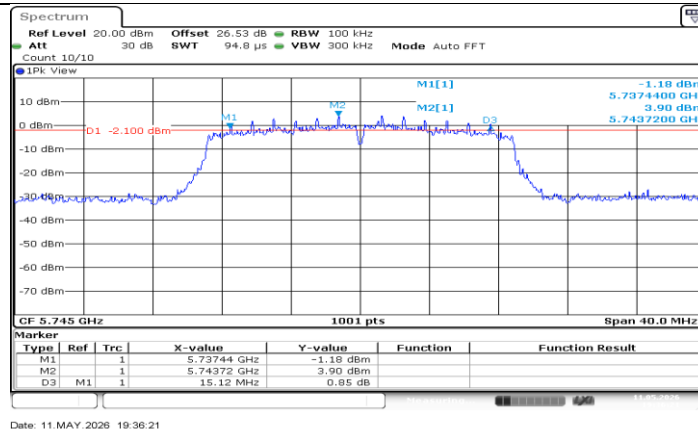
11N40SISO_Ant1_5755



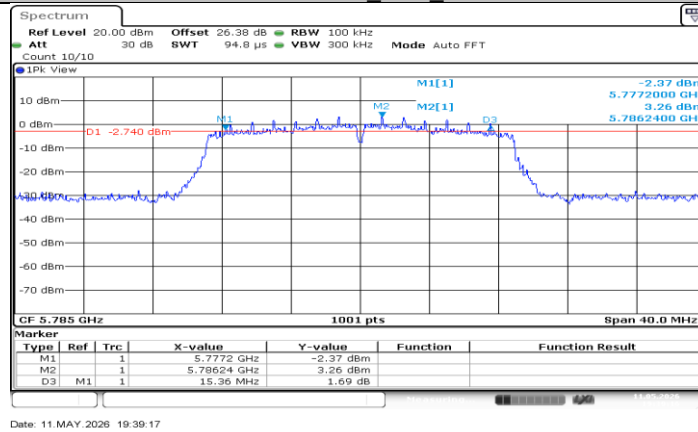
11N40SISO_Ant1_5795



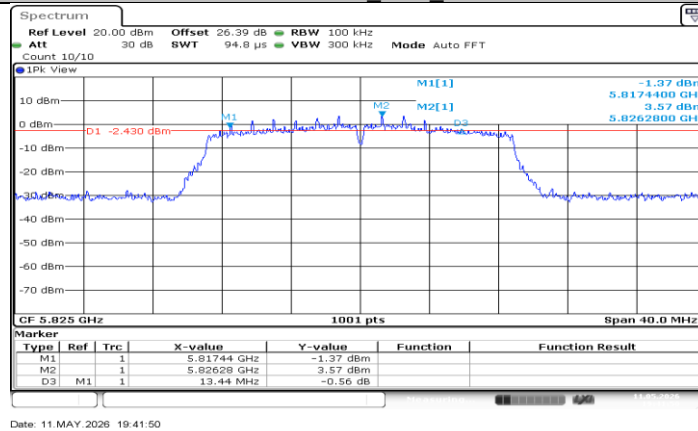
11AC20SISO_Ant1_5720



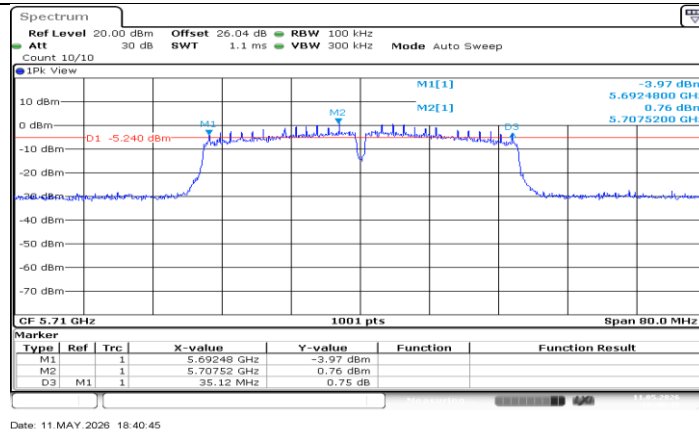
11AC20SISO_Ant1_5745



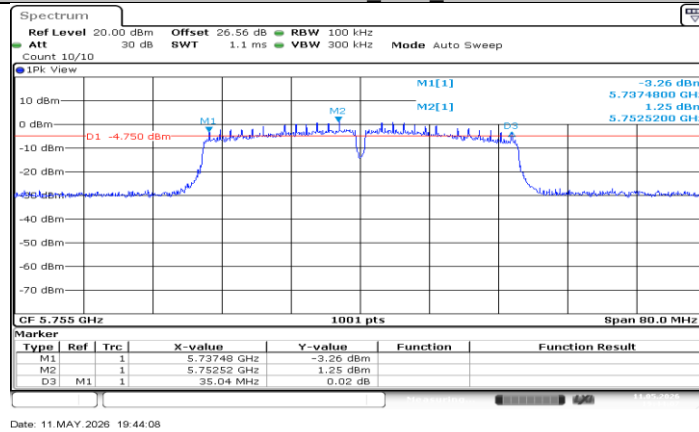
11AC20SISO_Ant1_5785



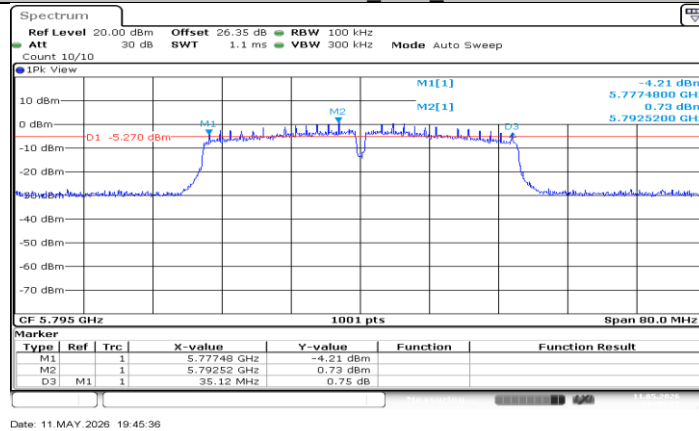
11AC20SISO_Ant1_5825



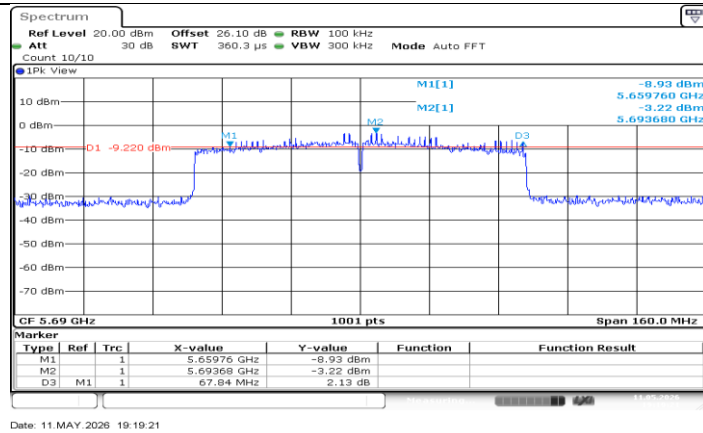
11AC40SISO_Ant1_5710



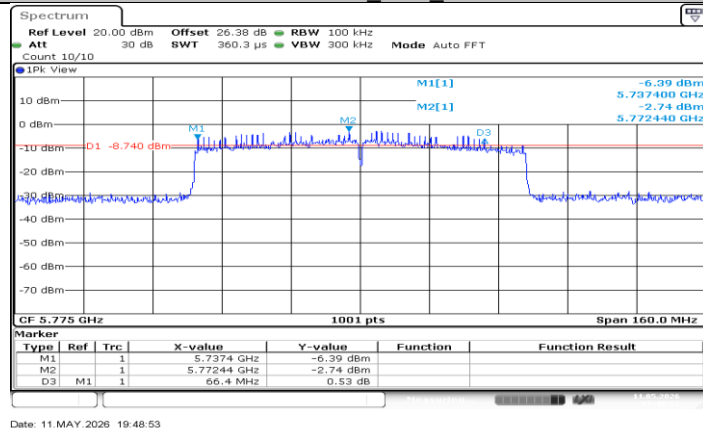
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5690



11AC80SISO_Ant1_5775

11.3.3. Appendix D: Maximum conducted output power

11.3.4. Test Result

Test Mode	Antenna	Frequency[MHz]	Power [dBm]	FCC Limit [dBm]	Verdict
11A	Ant1	5180	15.20	≤23.98	PASS
		5200	15.05	≤23.98	PASS
		5220	15.10	≤23.98	PASS
		5240	15.07	≤23.98	PASS
		5260	15.01	≤23.98	PASS
		5280	15.08	≤23.98	PASS
		5300	15.30	≤23.96	PASS
		5320	15.14	≤23.98	PASS
		5500	14.99	≤23.98	PASS
		5580	14.92	≤23.95	PASS
		5620	15.01	≤23.98	PASS
		5660	14.68	≤23.98	PASS
		5700	14.46	≤23.98	PASS
		5720	14.88	≤23.98	PASS
		5745	15.07	≤30.00	PASS
		5785	14.69	≤30.00	PASS
		5825	14.64	≤30.00	PASS
11N20SISO	Ant1	5180	15.04	≤23.98	PASS
		5200	15.12	≤23.98	PASS
		5220	14.93	≤23.98	PASS
		5240	14.91	≤23.98	PASS
		5260	14.85	≤23.98	PASS
		5280	14.92	≤23.98	PASS
		5300	15.15	≤23.98	PASS
		5320	14.99	≤23.98	PASS
		5500	13.30	≤23.98	PASS
		5580	14.69	≤23.98	PASS
		5620	15.06	≤23.98	PASS
		5660	14.50	≤23.98	PASS
		5700	13.80	≤23.98	PASS
		5720	14.52	≤23.98	PASS
		5745	15.12	≤30.00	PASS
		5785	14.52	≤30.00	PASS
		5825	14.47	≤30.00	PASS
11N40SISO	Ant1	5190	15.13	≤23.98	PASS
		5230	15.19	≤23.98	PASS
		5270	14.96	≤23.98	PASS
		5310	14.84	≤23.98	PASS
		5510	12.24	≤23.98	PASS
		5550	15.16	≤23.98	PASS
		5630	15.11	≤23.98	PASS
		5670	15.12	≤23.98	PASS
		5710	14.61	≤23.98	PASS
		5755	15.17	≤30.00	PASS
11AC20SISO	Ant1	5795	14.85	≤30.00	PASS
		5180	14.58	≤23.98	PASS
		5200	14.55	≤23.98	PASS
		5220	14.50	≤23.98	PASS
		5240	14.27	≤23.98	PASS
		5260	14.41	≤23.98	PASS
		5280	14.49	≤23.98	PASS
		5300	14.66	≤23.98	PASS
	Ant1	5320	14.48	≤23.98	PASS
		5500	14.37	≤23.98	PASS

		5580	14.30	≤ 23.98	PASS
		5620	14.51	≤ 23.98	PASS
		5660	14.10	≤ 23.98	PASS
		5700	13.76	≤ 23.98	PASS
		5720	14.24	≤ 23.98	PASS
		5745	14.40	≤ 30.00	PASS
		5785	14.14	≤ 30.00	PASS
		5825	14.08	≤ 30.00	PASS
11AC40SISO	Ant1	5190	14.16	≤ 23.98	PASS
		5230	14.24	≤ 23.98	PASS
		5270	13.91	≤ 23.98	PASS
		5310	14.13	≤ 23.98	PASS
		5510	13.91	≤ 23.98	PASS
		5550	14.00	≤ 23.98	PASS
		5630	14.14	≤ 23.98	PASS
		5670	13.68	≤ 23.98	PASS
		5710	13.70	≤ 23.98	PASS
		5755	14.20	≤ 30.00	PASS
11AC80SISO	Ant1	5795	13.73	≤ 30.00	PASS
		5210	13.94	≤ 23.98	PASS
		5290	13.72	≤ 23.98	PASS
		5530	13.15	≤ 23.98	PASS
		5610	13.82	≤ 23.98	PASS
		5690	13.40	≤ 23.98	PASS
		5775	13.70	≤ 30.00	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor

2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

11.4. APPENDIX E: MAXIMUM POWER SPECTRAL DENSITY

11.4.1. Test Result

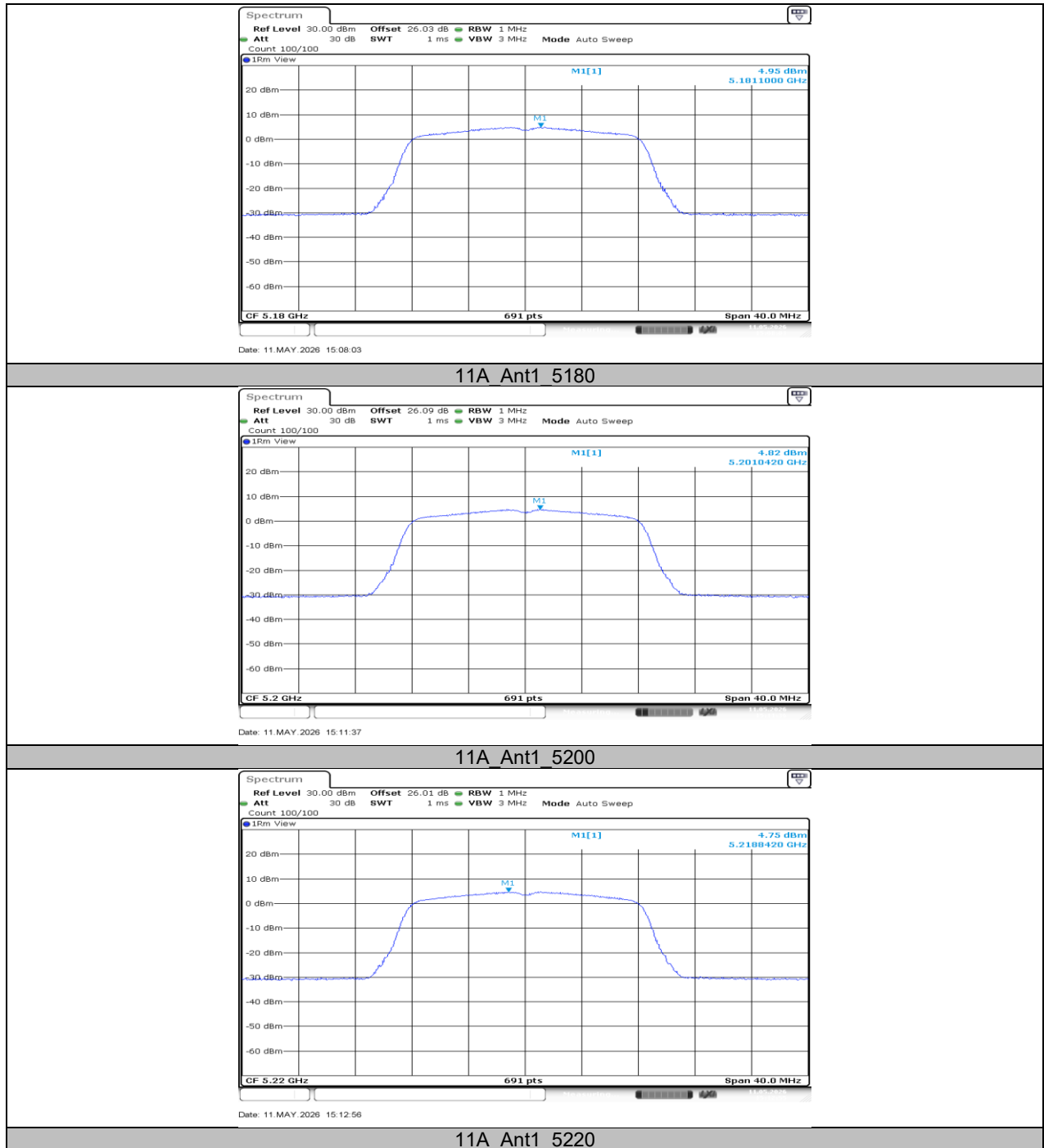
Test Mode	Antenna	Frequency[MHz]	Power [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	4.95	≤11.00	6.25	≤10.00	PASS
		5200	4.82	≤11.00	6.12	≤10.00	PASS
		5220	4.75	≤11.00	6.05	≤10.00	PASS
		5240	4.94	≤11.00	6.24	≤10.00	PASS
		5260	4.74	≤11.00	5.94	---	PASS
		5280	4.75	≤11.00	5.95	---	PASS
		5300	5.00	≤11.00	6.20	---	PASS
		5320	4.87	≤11.00	6.07	---	PASS
		5500	4.84	≤11.00	5.94	---	PASS
		5580	4.64	≤11.00	5.74	---	PASS
		5620	4.71	≤11.00	5.81	---	PASS
		5660	4.43	≤11.00	5.53	---	PASS
		5700	4.18	≤11.00	5.28	---	PASS
		5720	4.45	≤11.00	5.55	---	PASS
		5745	2.01	≤30.00	3.41	---	PASS
		5785	1.44	≤30.00	2.84	---	PASS
11N20SISO	Ant1	5180	4.59	≤11.00	5.89	≤10.00	PASS
		5200	4.64	≤11.00	5.94	≤10.00	PASS
		5220	4.45	≤11.00	5.75	≤10.00	PASS
		5240	4.43	≤11.00	5.73	≤10.00	PASS
		5260	4.42	≤11.00	5.62	---	PASS
		5280	4.50	≤11.00	5.70	---	PASS
		5300	4.84	≤11.00	6.04	---	PASS
		5320	4.50	≤11.00	5.70	---	PASS
		5500	2.40	≤11.00	3.50	---	PASS
		5580	4.32	≤11.00	5.42	---	PASS
		5620	4.52	≤11.00	5.62	---	PASS
		5660	3.93	≤11.00	5.03	---	PASS
		5700	2.80	≤11.00	3.90	---	PASS
		5720	4.02	≤11.00	5.12	---	PASS
		5745	1.78	≤30.00	3.18	---	PASS
		5785	1.33	≤30.00	2.73	---	PASS
11N40SISO	Ant1	5190	1.72	≤11.00	3.02	≤10.00	PASS
		5230	1.89	≤11.00	3.19	≤10.00	PASS
		5270	1.62	≤11.00	2.82	---	PASS
		5310	0.41	≤11.00	1.61	---	PASS
		5510	-2.22	≤11.00	-1.12	---	PASS
		5550	1.85	≤11.00	2.95	---	PASS
		5630	1.71	≤11.00	2.81	---	PASS
		5670	1.32	≤11.00	2.42	---	PASS
		5710	1.28	≤11.00	2.38	---	PASS
		5755	-0.96	≤30.00	0.44	---	PASS
11AC20SISO	Ant1	5795	-1.20	≤30.00	0.20	---	PASS
		5180	4.12	≤11.00	5.42	≤10.00	PASS
		5200	4.21	≤11.00	5.51	≤10.00	PASS
		5220	4.09	≤11.00	5.39	≤10.00	PASS
		5240	3.75	≤11.00	5.05	≤10.00	PASS
		5260	3.89	≤11.00	5.09	---	PASS
		5280	4.05	≤11.00	5.25	---	PASS
		5300	4.18	≤11.00	5.38	---	PASS
		5320	4.04	≤11.00	5.24	---	PASS
	Ant1	5500	3.97	≤11.00	5.07	---	PASS
		5580	3.89	≤11.00	4.99	---	PASS

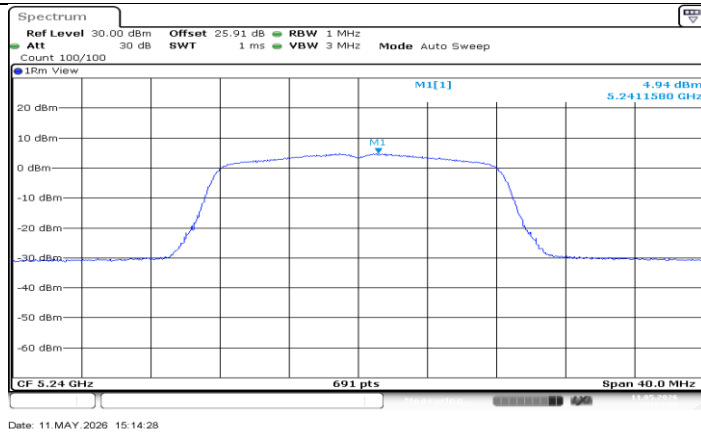
		5620	4.05	≤ 11.00	5.15	---	PASS
		5660	3.67	≤ 11.00	4.77	---	PASS
		5700	3.25	≤ 11.00	4.35	---	PASS
		5720	3.85	≤ 11.00	4.95	---	PASS
		5745	1.26	≤ 30.00	2.66	---	PASS
		5785	0.64	≤ 30.00	2.04	---	PASS
		5825	0.82	≤ 30.00	2.22	---	PASS
11AC40SISO	Ant1	5190	0.88	≤ 11.00	2.18	≤ 10.00	PASS
		5230	0.88	≤ 11.00	2.18	≤ 10.00	PASS
		5270	0.44	≤ 11.00	1.64	---	PASS
		5310	0.64	≤ 11.00	1.84	---	PASS
		5510	0.48	≤ 11.00	1.58	---	PASS
		5550	0.66	≤ 11.00	1.76	---	PASS
		5630	0.78	≤ 11.00	1.88	---	PASS
		5670	0.28	≤ 11.00	1.38	---	PASS
		5710	0.24	≤ 11.00	1.34	---	PASS
		5755	-1.97	≤ 30.00	-0.57	---	PASS
11AC80SISO	Ant1	5795	-2.68	≤ 30.00	-1.28	---	PASS
		5210	-2.68	≤ 11.00	-1.38	≤ 10.00	PASS
		5290	-3.32	≤ 11.00	-2.12	---	PASS
		5530	-4.75	≤ 11.00	-3.65	---	PASS
		5610	-2.59	≤ 11.00	-1.49	---	PASS
		5690	-3.13	≤ 11.00	-2.03	---	PASS
		5775	-5.45	≤ 30.00	-4.05	---	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

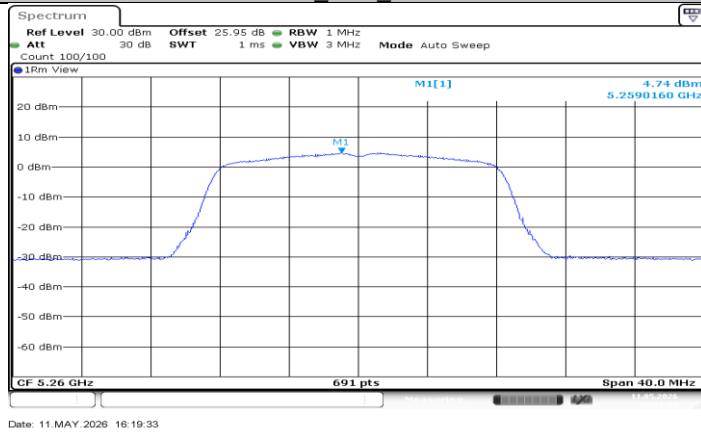
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

11.4.2. Test Graphs

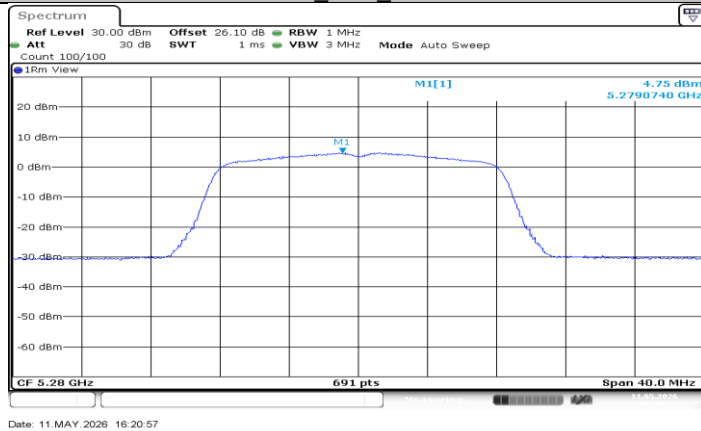




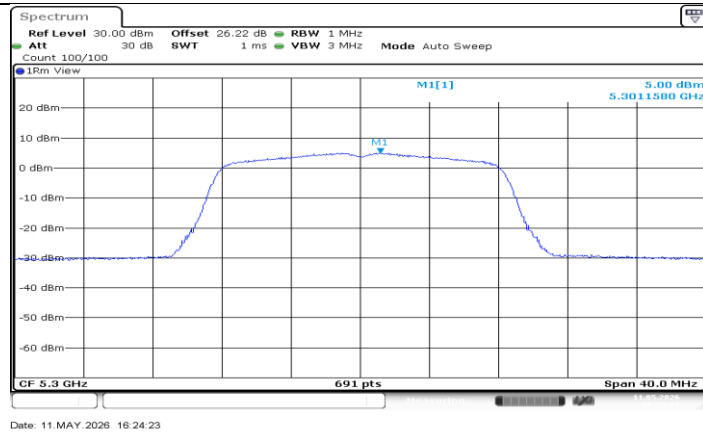
11A_Ant1_5240



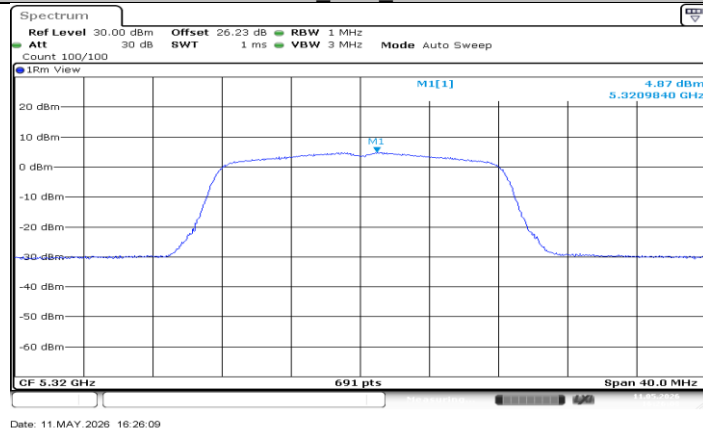
11A_Ant1_5260



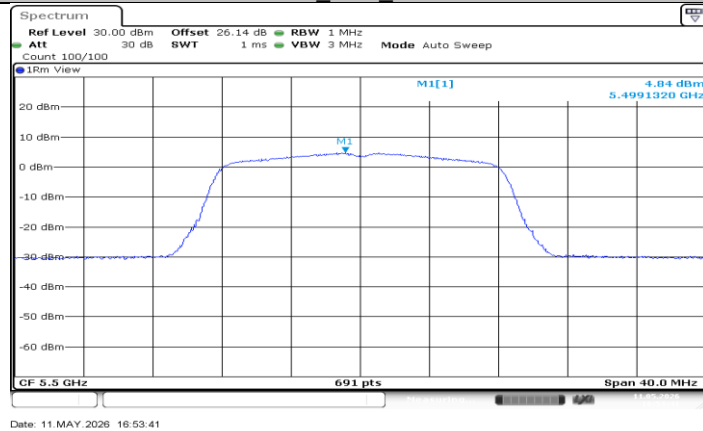
11A_Ant1_5280



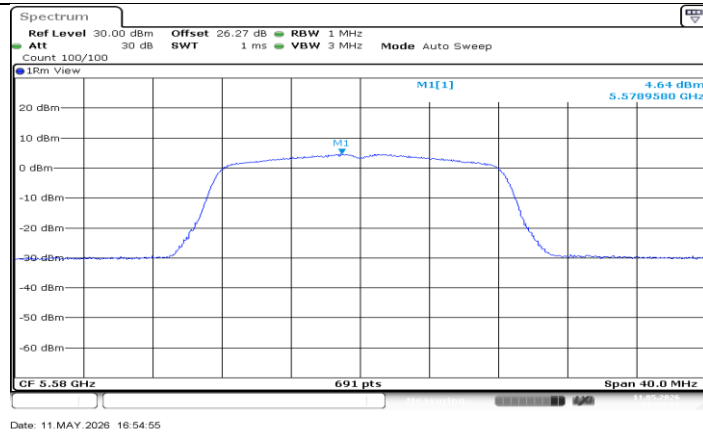
11A_Ant1_5300



11A_Ant1_5320



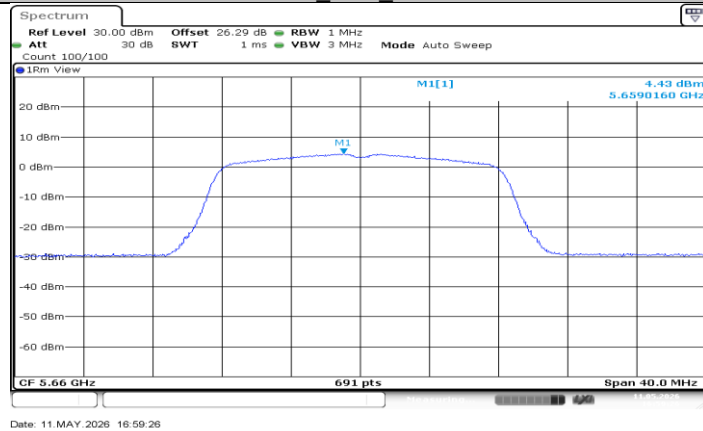
11A_Ant1_5500



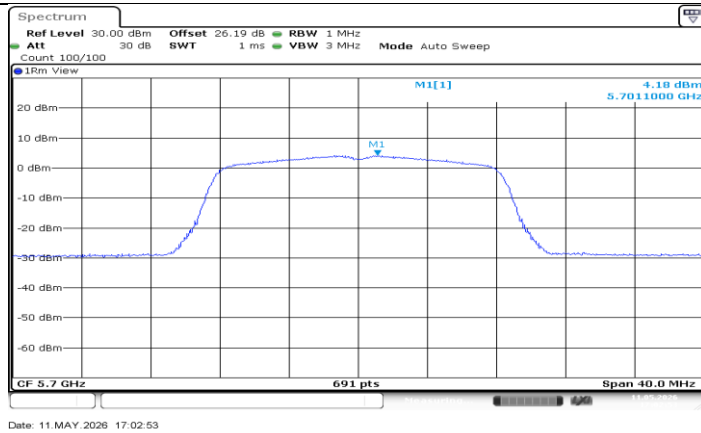
11A_Ant1_5580



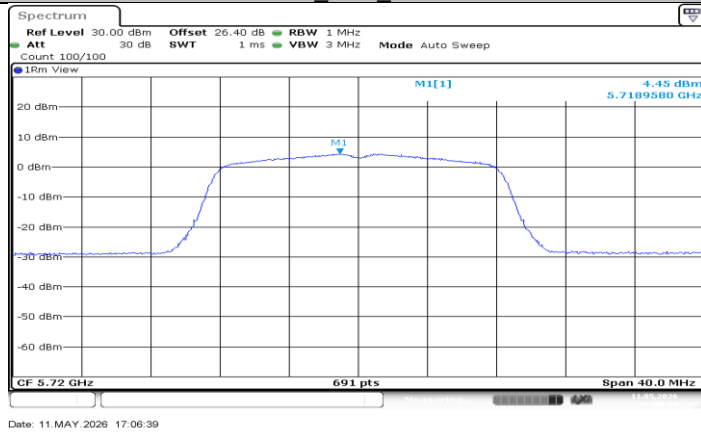
11A_Ant1_5620



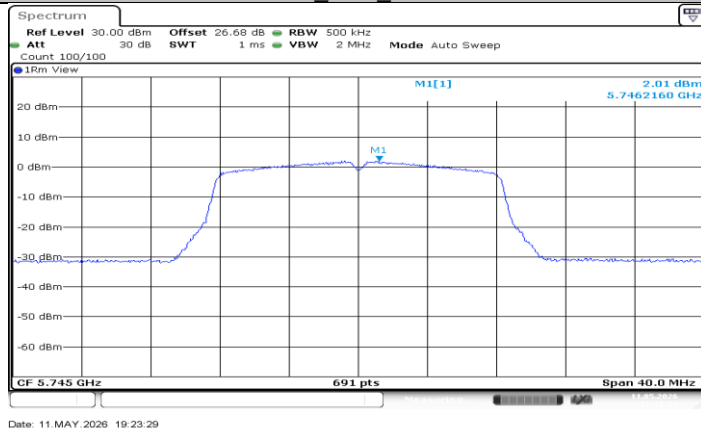
11A_Ant1_5660



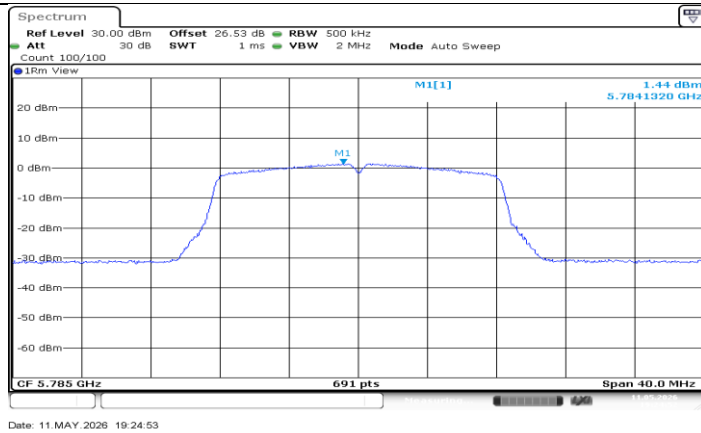
11A_Ant1_5700



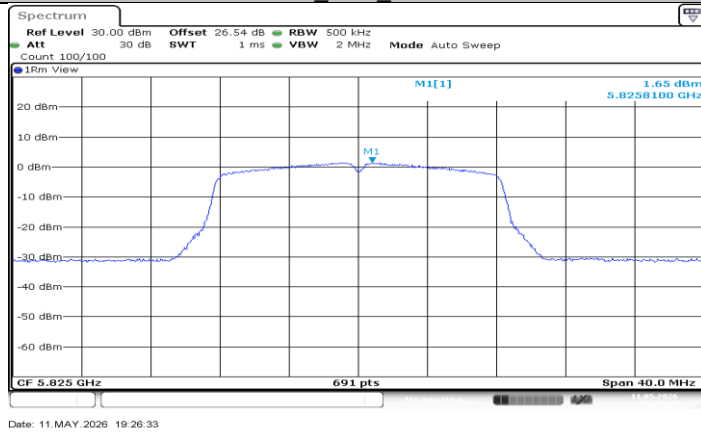
11A_Ant1_5720



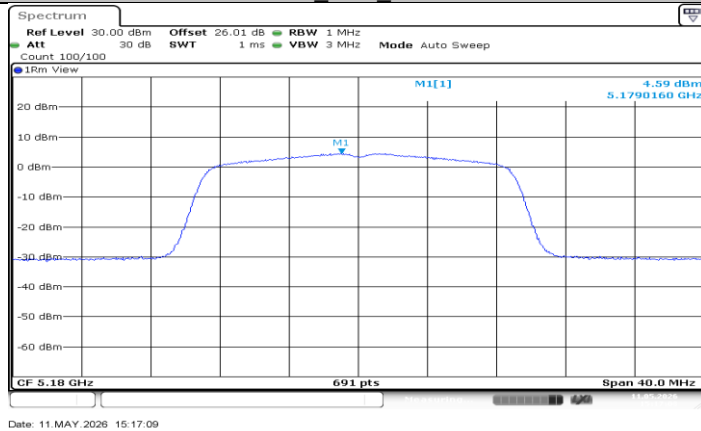
11A_Ant1_5745



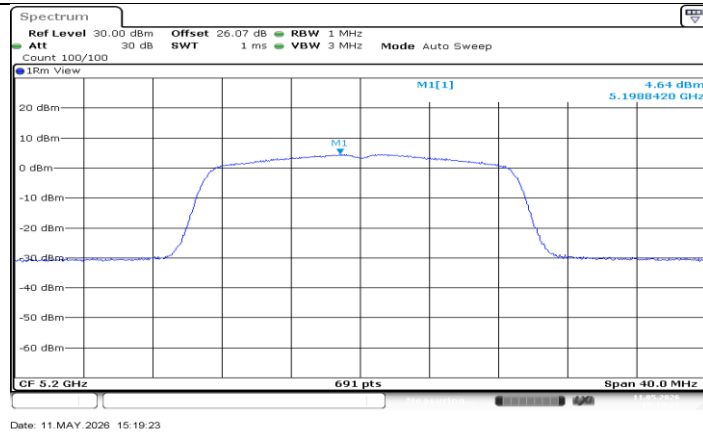
11A_Ant1_5785



11A_Ant1_5825



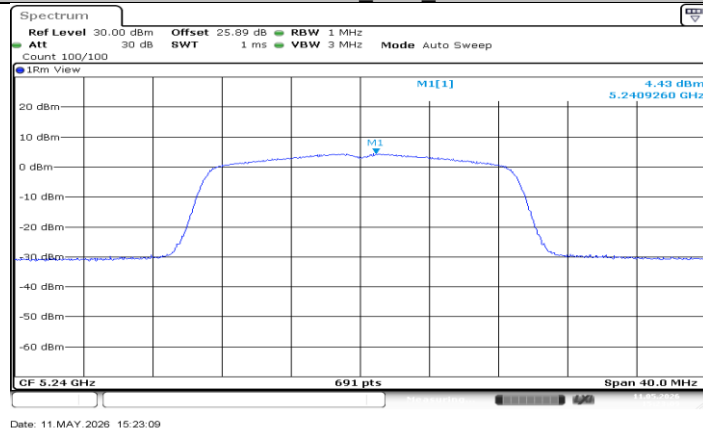
11N20SISO_Ant1_5180



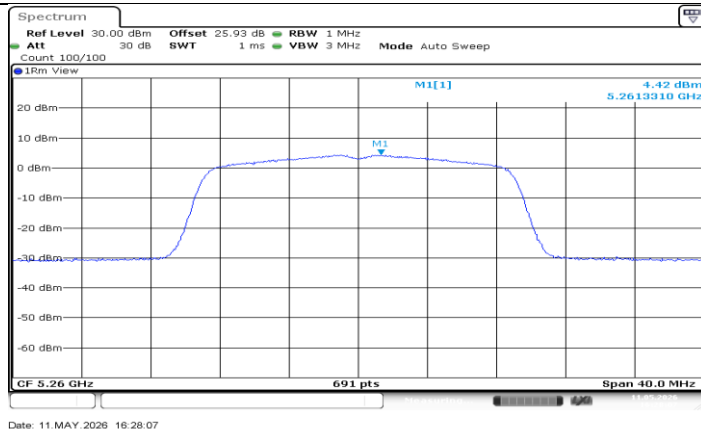
11N20SISO_Ant1_5200



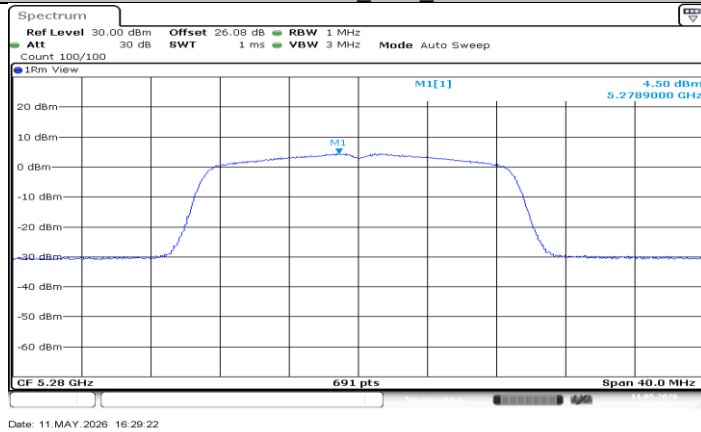
11N20SISO_Ant1_5220



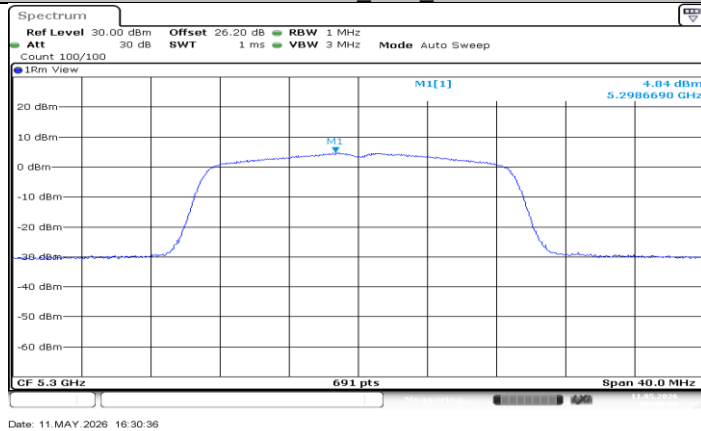
11N20SISO_Ant1_5240



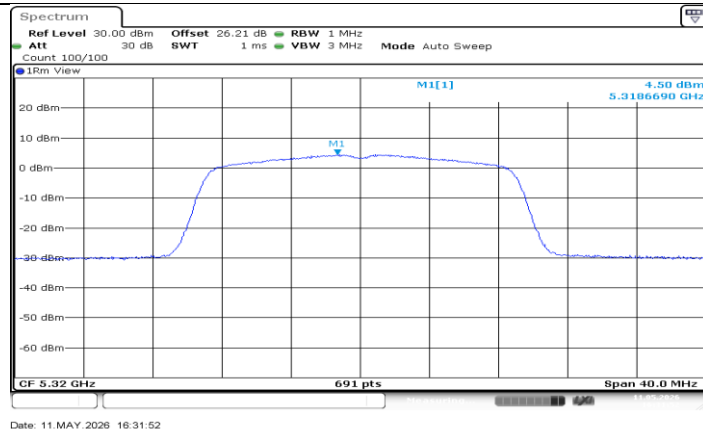
11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



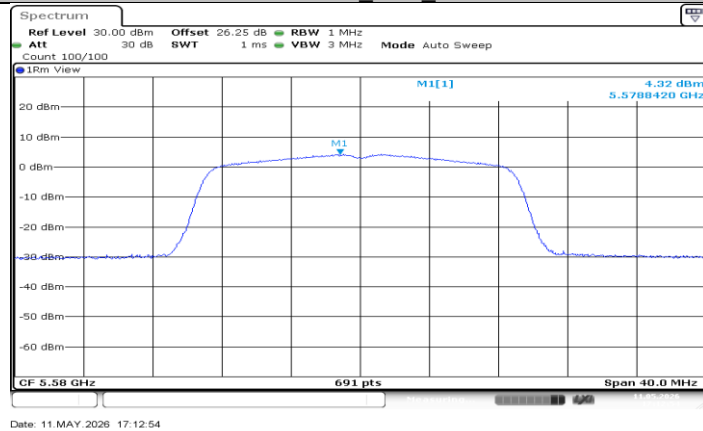
11N20SISO_Ant1_5300



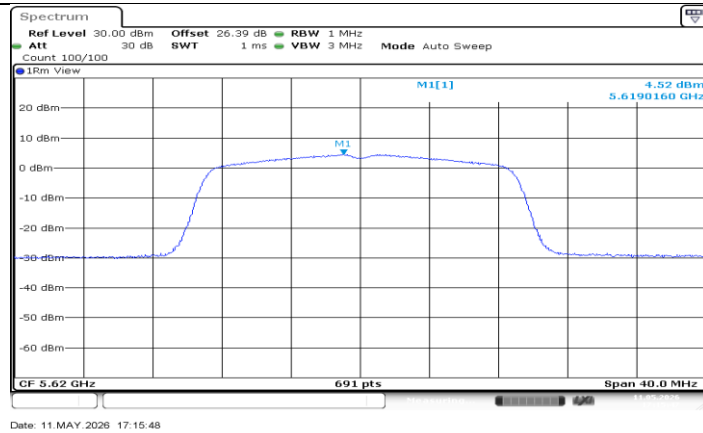
11N20SISO_Ant1_5320



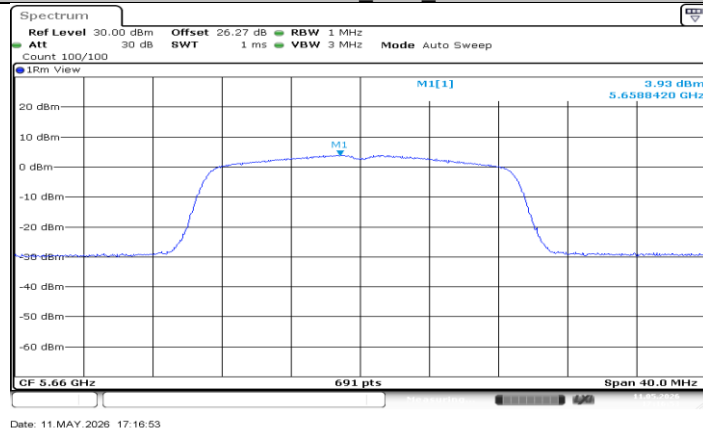
11N20SISO_Ant1_5500



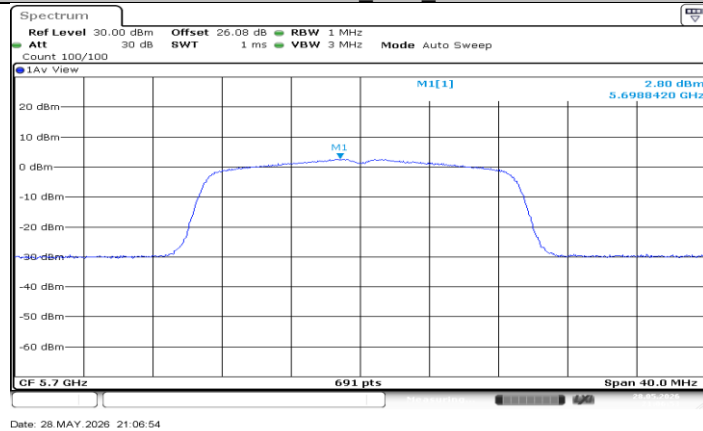
11N20SISO_Ant1_5580



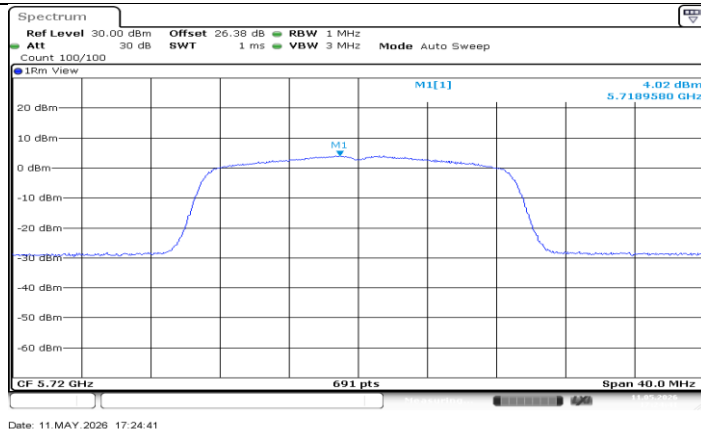
11N20SISO_Ant1_5620



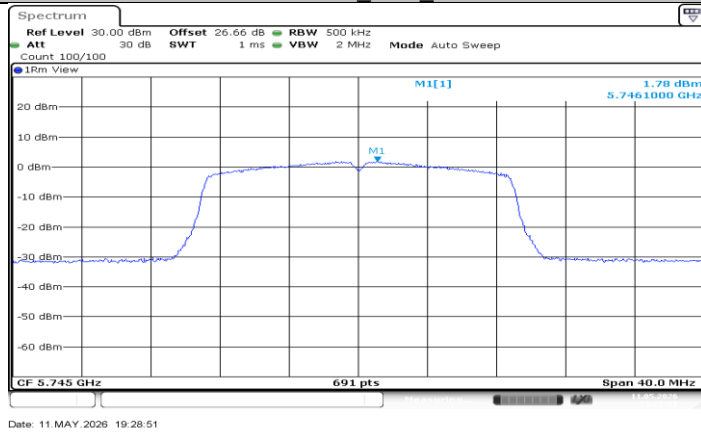
11N20SISO_Ant1_5660



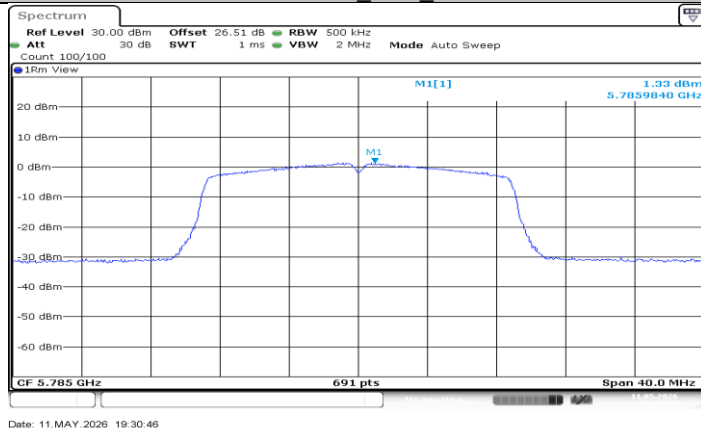
11N20SISO_Ant1_5700



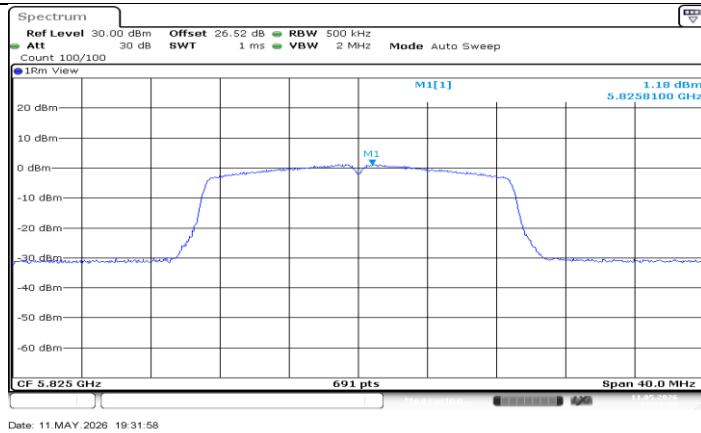
11N20SISO_Ant1_5720



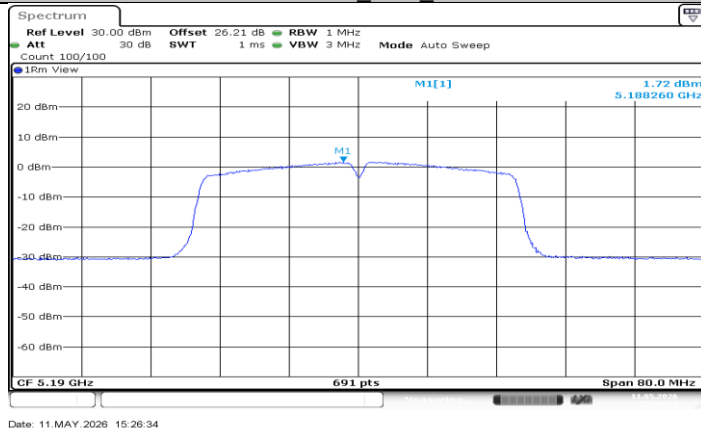
11N20SISO_Ant1_5745



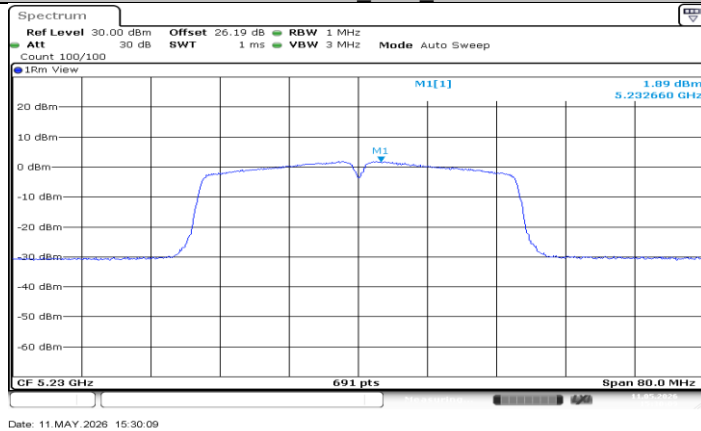
11N20SISO_Ant1_5785



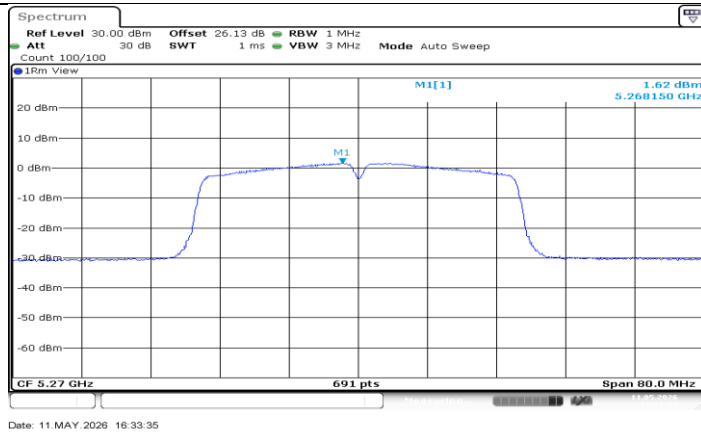
11N20SISO_Ant1_5825



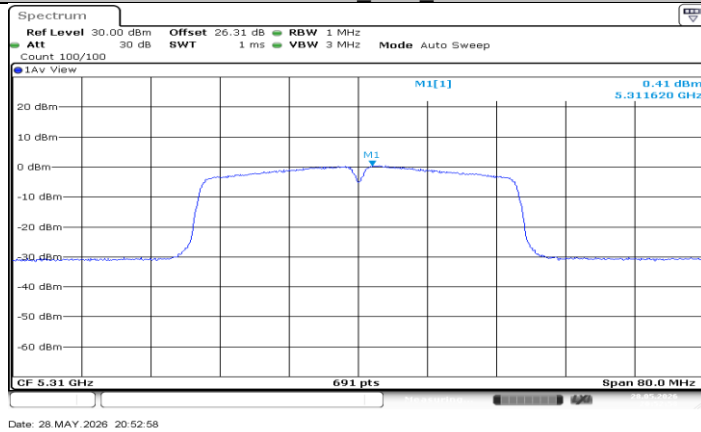
11N40SISO_Ant1_5190



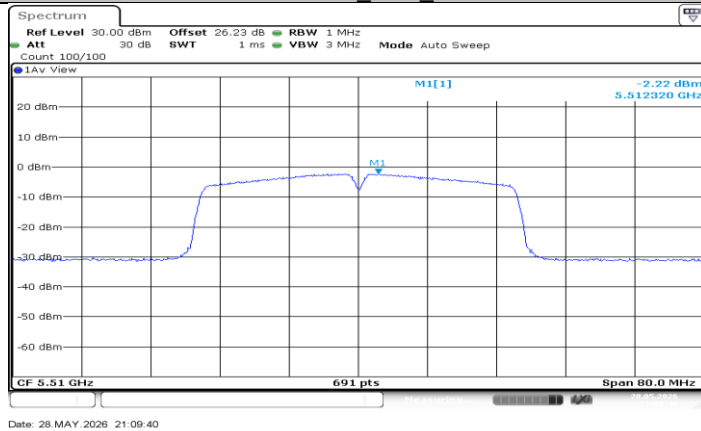
11N40SISO_Ant1_5230



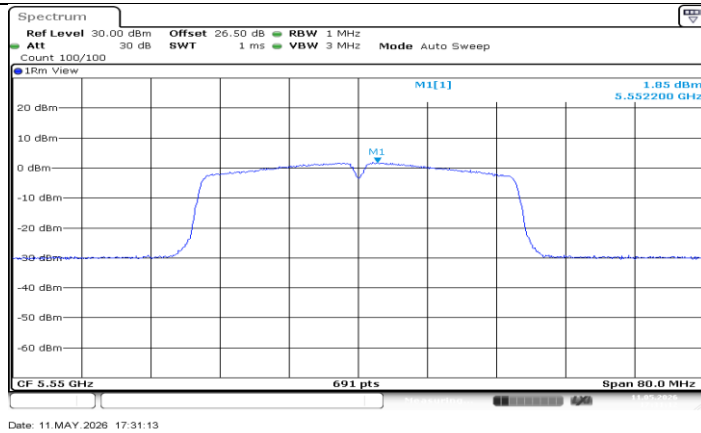
11N40SISO_Ant1_5270



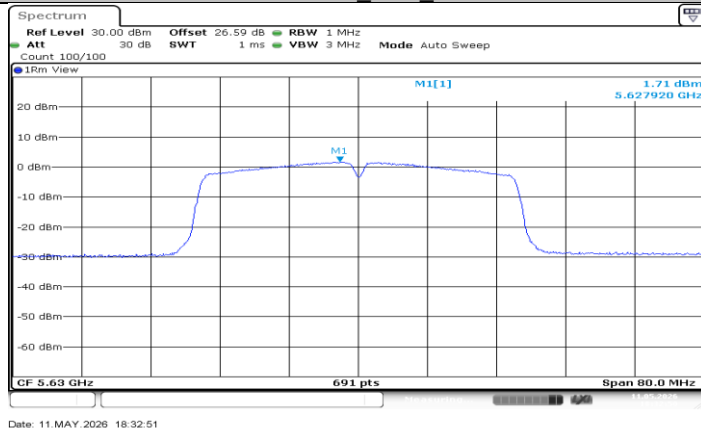
11N40SISO_Ant1_5310



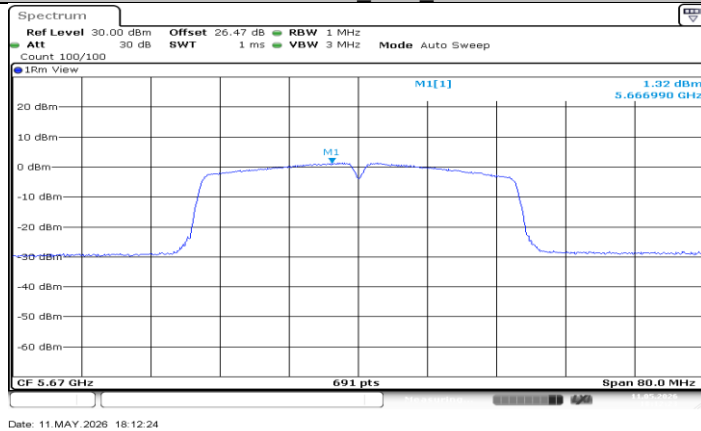
11N40SISO_Ant1_5510



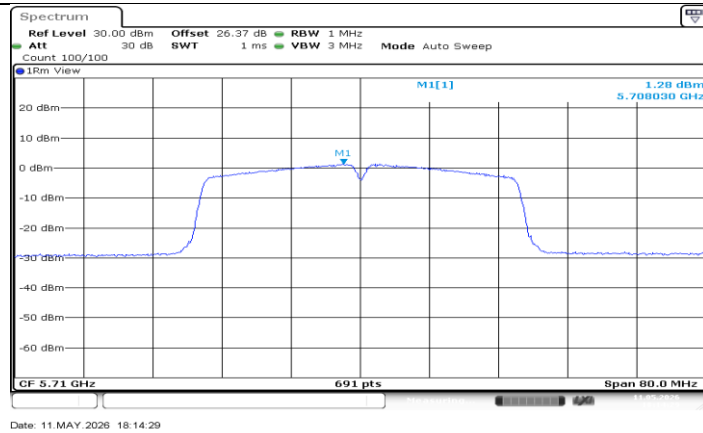
11N40SISO_Ant1_5550



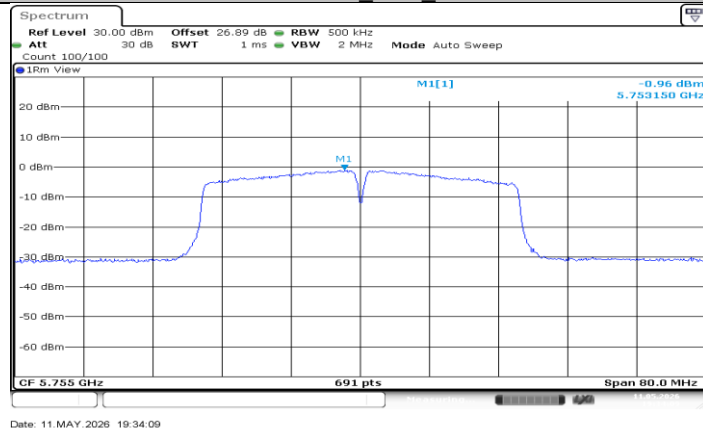
11N40SISO_Ant1_5630



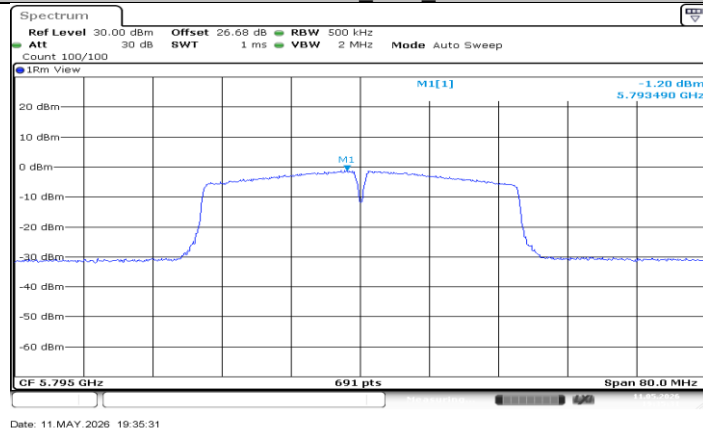
11N40SISO_Ant1_5670



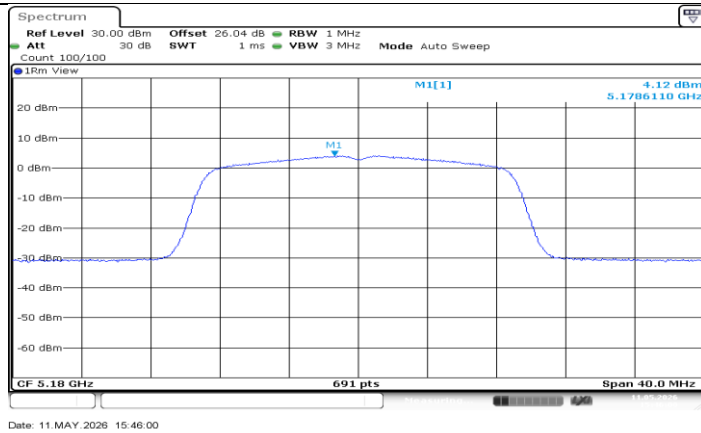
11N40SISO_Ant1_5710



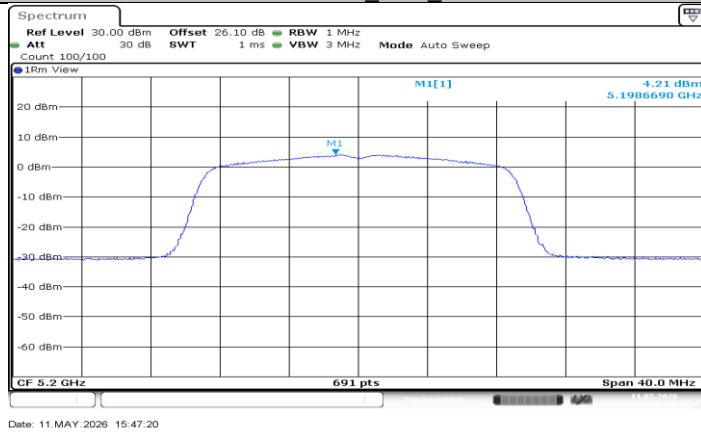
11N40SISO_Ant1_5755



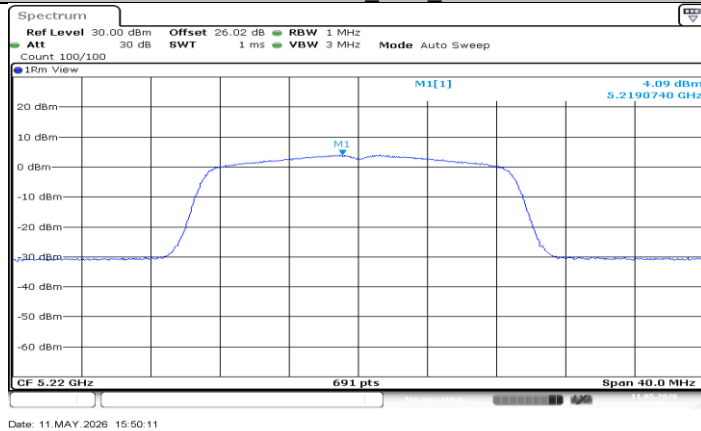
11N40SISO_Ant1_5795



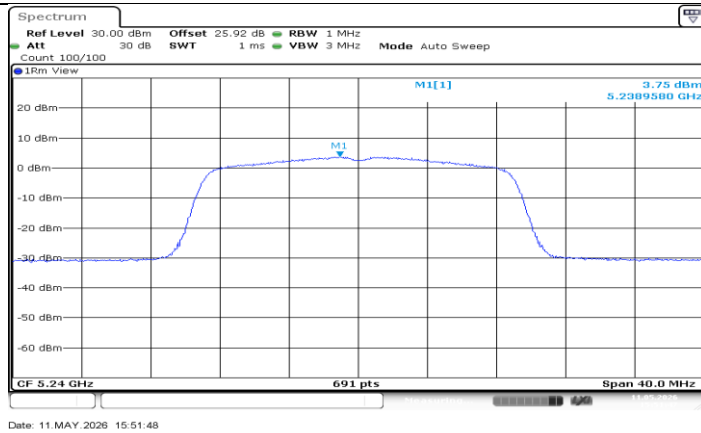
11AC20SISO_Ant1_5180



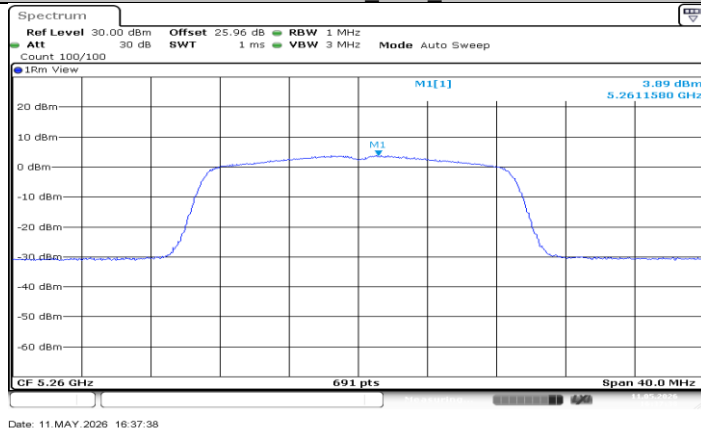
11AC20SISO_Ant1_5200



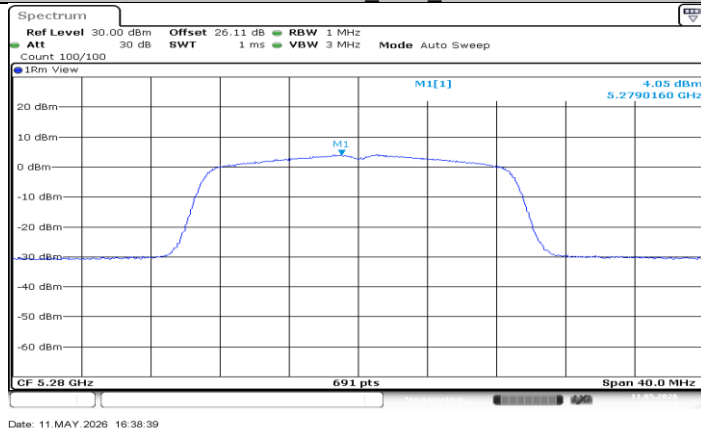
11AC20SISO_Ant1_5220



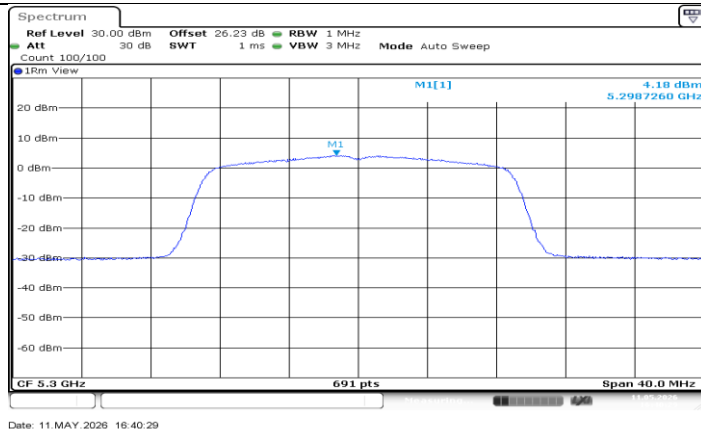
11AC20SISO_Ant1_5240



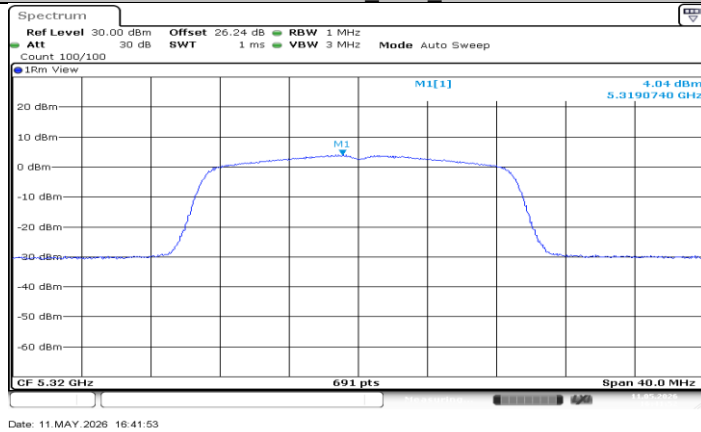
11AC20SISO_Ant1_5260



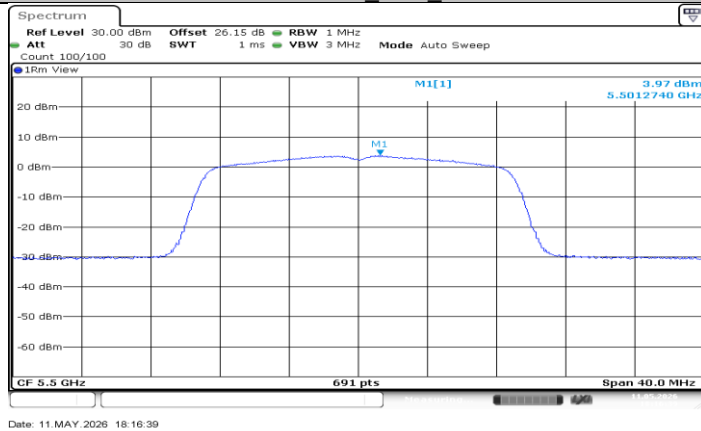
11AC20SISO_Ant1_5280



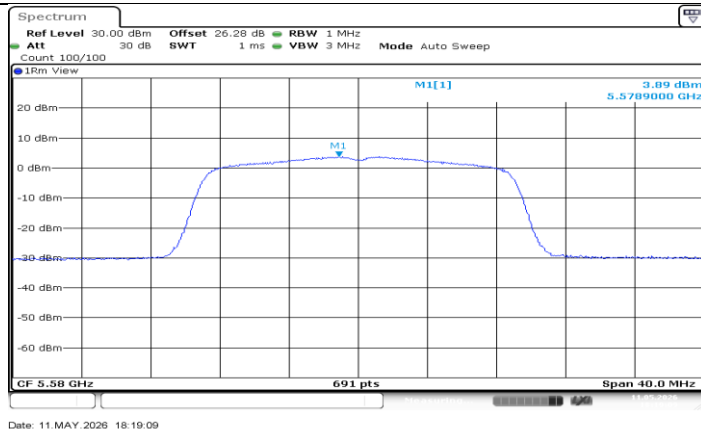
11AC20SISO_Ant1_5300



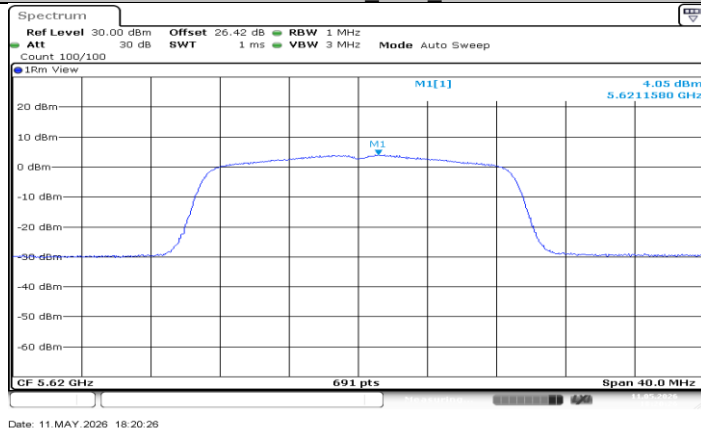
11AC20SISO_Ant1_5320



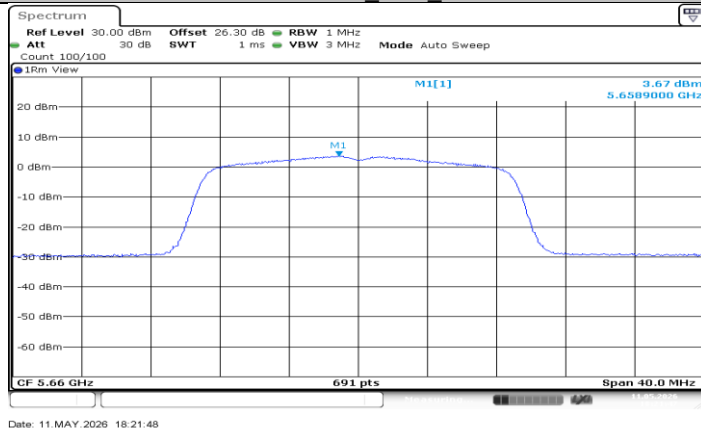
11AC20SISO_Ant1_5500



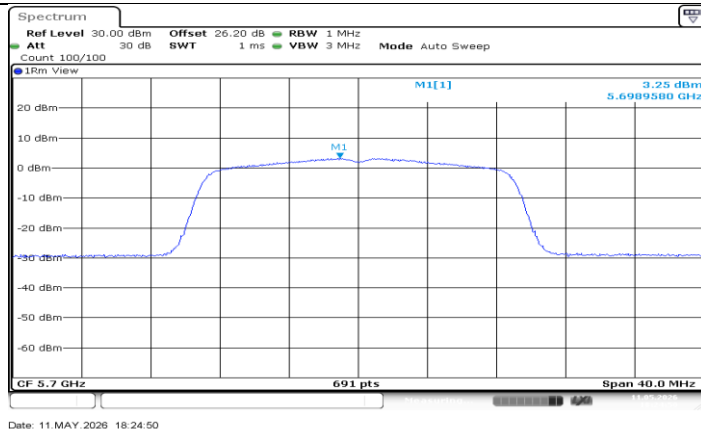
11AC20SISO_Ant1_5580



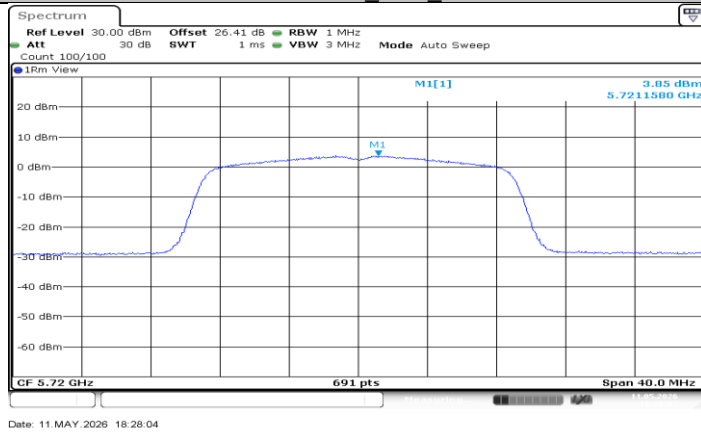
11AC20SISO_Ant1_5620



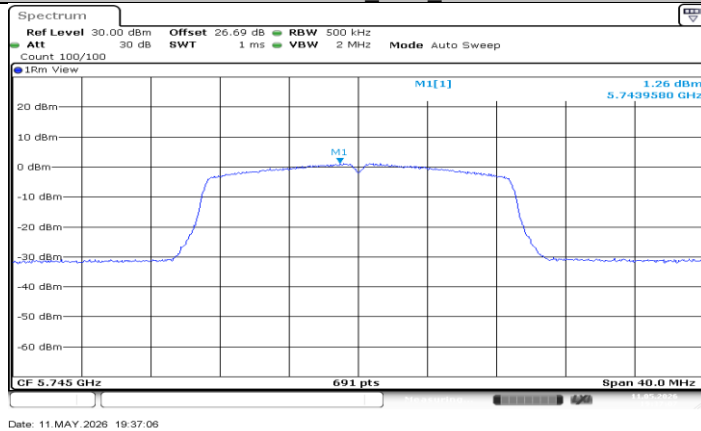
11AC20SISO_Ant1_5660



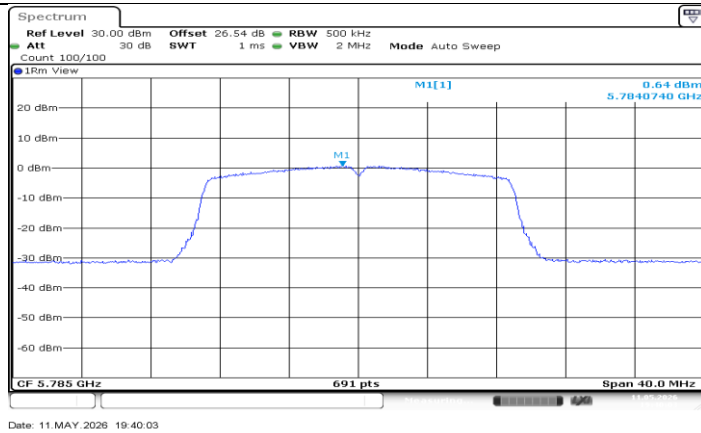
11AC20SISO_Ant1_5700



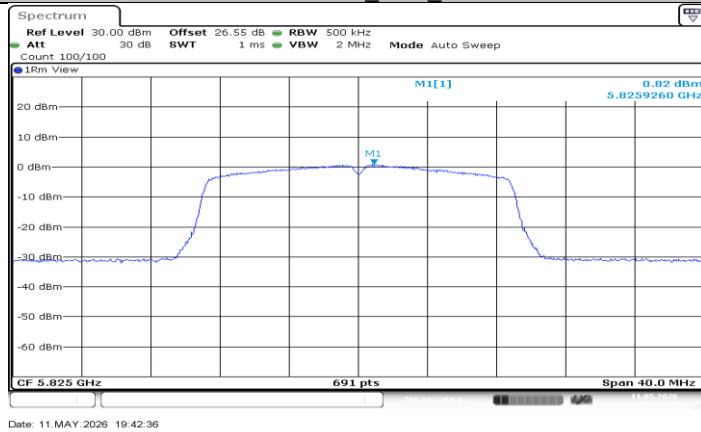
11AC20SISO_Ant1_5720



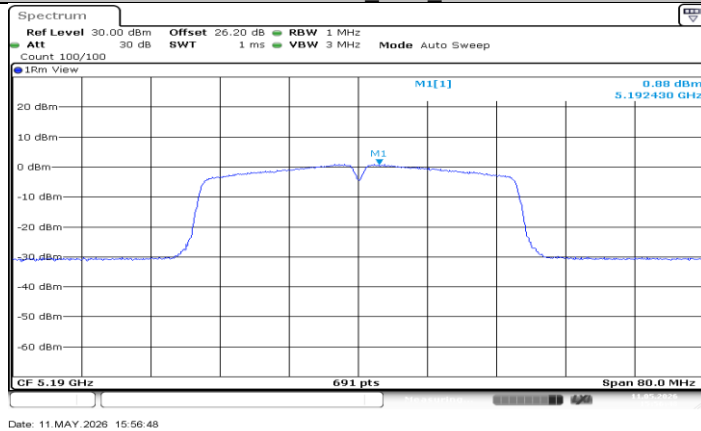
11AC20SISO_Ant1_5745



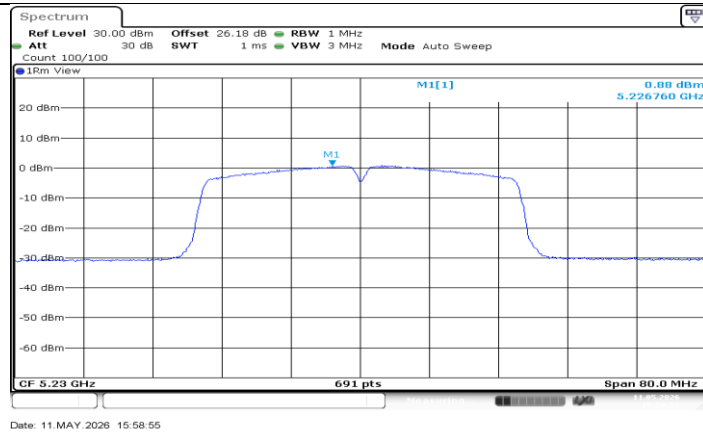
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



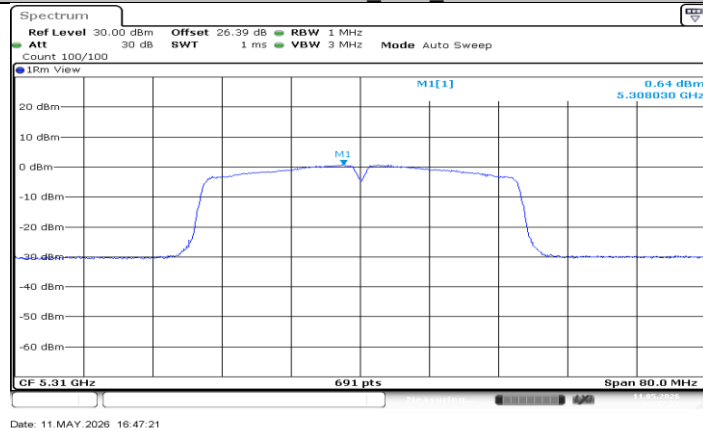
11AC40SISO_Ant1_5190



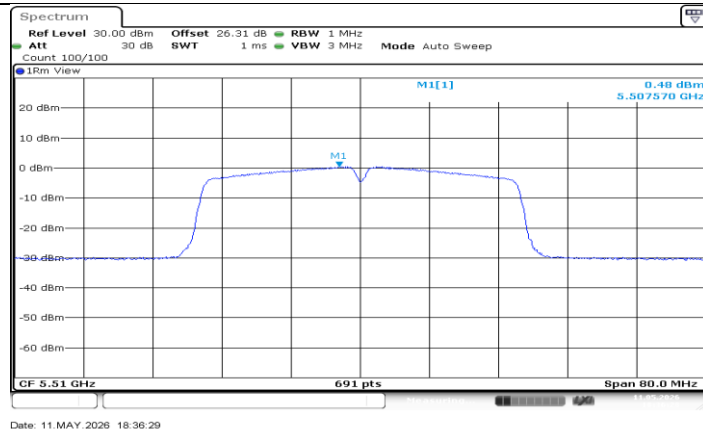
11AC40SISO_Ant1_5230



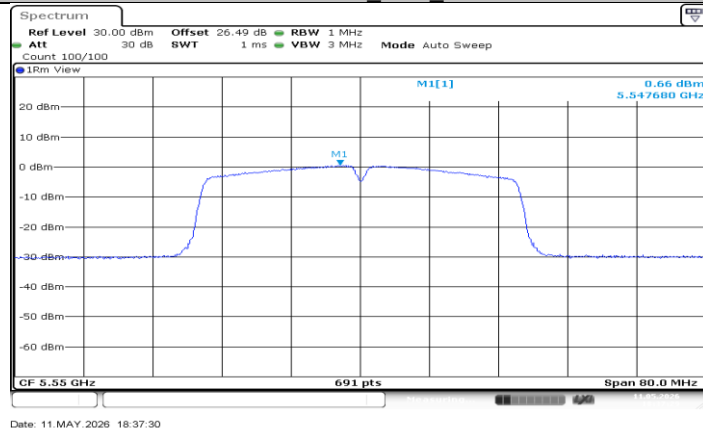
11AC40SISO_Ant1_5270



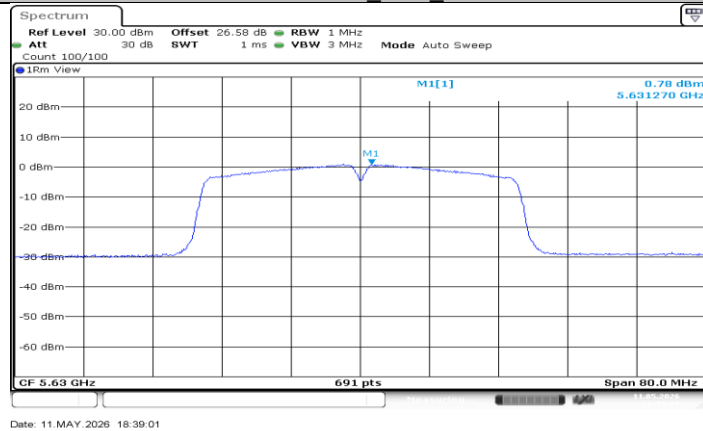
11AC40SISO_Ant1_5310



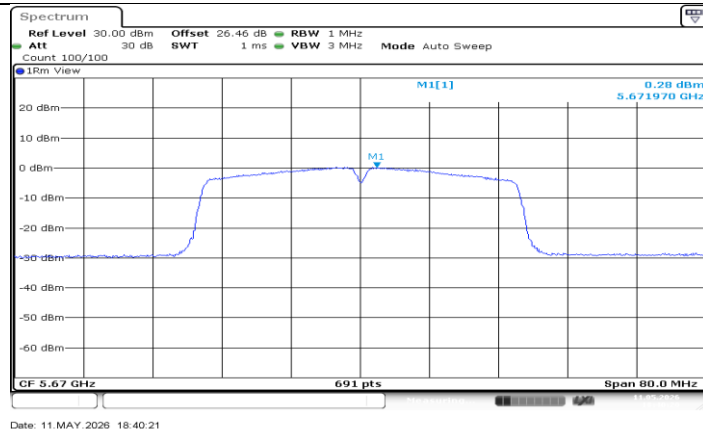
11AC40SISO_Ant1_5510



11AC40SISO_Ant1_5550



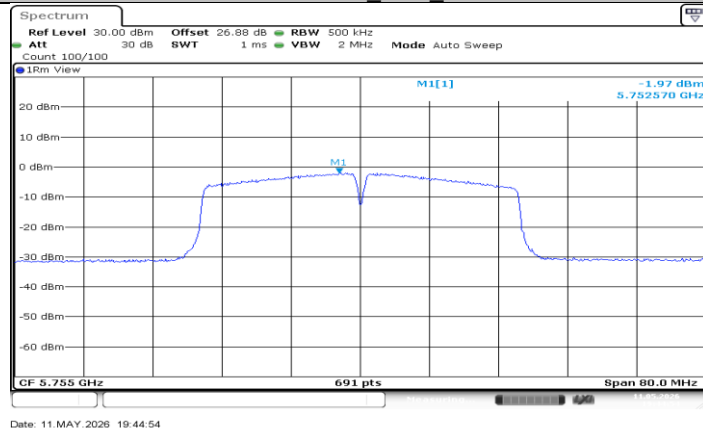
11AC40SISO_Ant1_5630



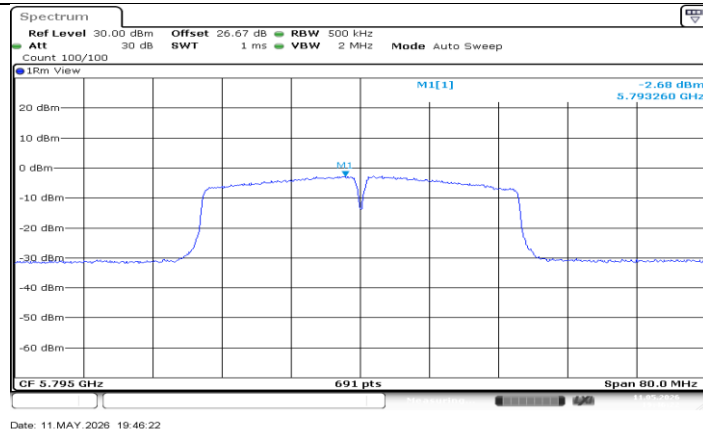
11AC40SISO_Ant1_5670



11AC40SISO_Ant1_5710



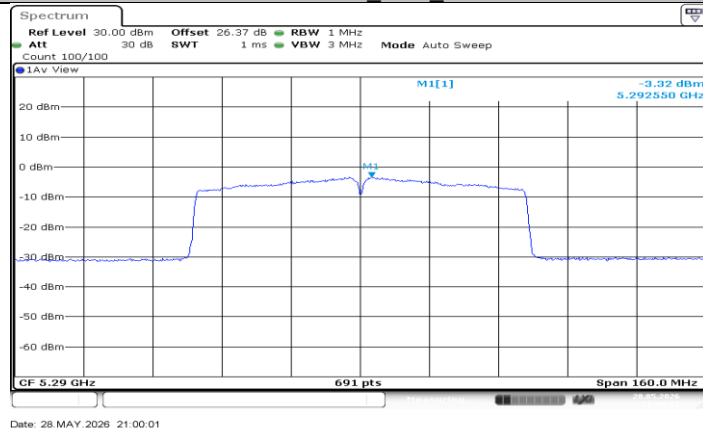
11AC40SISO_Ant1_5755



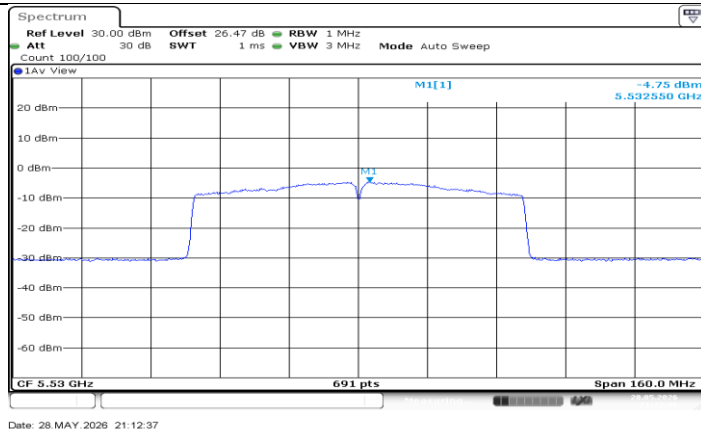
11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



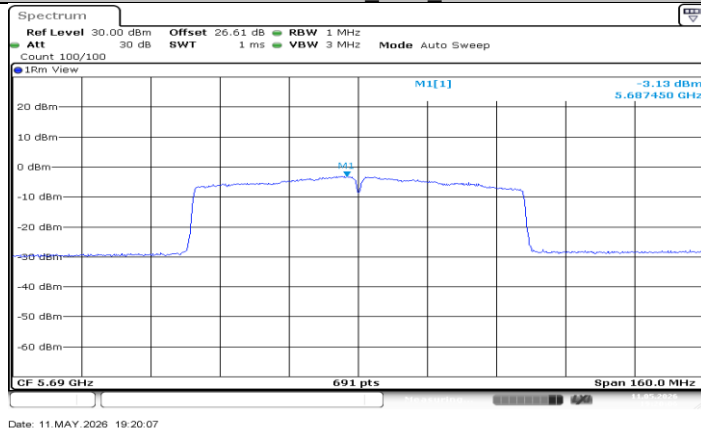
11AC80SISO_Ant1_5290



11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610



11AC80SISO_Ant1_5690



11.5. APPENDIX I: 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	5200.0065	1.25	5200.0186	3.58	5199.9821	-3.44	5200.0168	3.23
TN	VN	5200.0018	0.34	5199.9941	-1.13	5199.9978	-0.42	5199.9951	-0.94
TN	VH	5200.0108	2.08	5200.0083	1.59	5200.0043	0.84	5200.0060	1.16
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	5200.0016	0.31	5200.0175	3.36	5200.0070	1.35	5200.0173	3.32
60	VN	5199.9761	-4.59	5199.9811	-3.64	5200.0214	4.12	5199.9779	-4.24
50	VN	5199.9840	-3.08	5200.0220	4.22	5199.9763	-4.55	5199.9886	-2.19
40	VN	5199.9814	-3.57	5199.9805	-3.76	5199.9828	-3.31	5200.0191	3.67
30	VN	5200.0024	0.46	5200.0087	1.66	5199.9841	-3.06	5200.0070	1.34
20	VN	5200.0065	1.25	5200.0141	2.72	5199.9819	-3.48	5199.9765	-4.52
10	VN	5199.9767	-4.49	5200.0210	4.04	5200.0204	3.93	5199.9863	-2.63
0	VN	5199.9925	-1.45	5199.9871	-2.48	5199.9847	-2.95	5199.9907	-1.78
-10	VN	5200.0112	2.15	5199.9888	-2.16	5200.0043	0.82	5199.9837	-3.14

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 J: 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	1.38	1.43	0.9650	96.50	0.15	0.72	1
11N20SISO	1.30	1.34	0.9701	97.01	0.13	0.77	1
11N40SISO	0.64	0.69	0.9275	92.75	0.33	1.56	2
11AC20SISO	1.30	1.35	0.9630	96.30	0.16	0.77	1
11AC40SISO	0.65	0.70	0.9286	92.86	0.32	1.54	2
11AC80SISO	0.32	0.36	0.8889	88.89	0.51	3.13	4

Note:

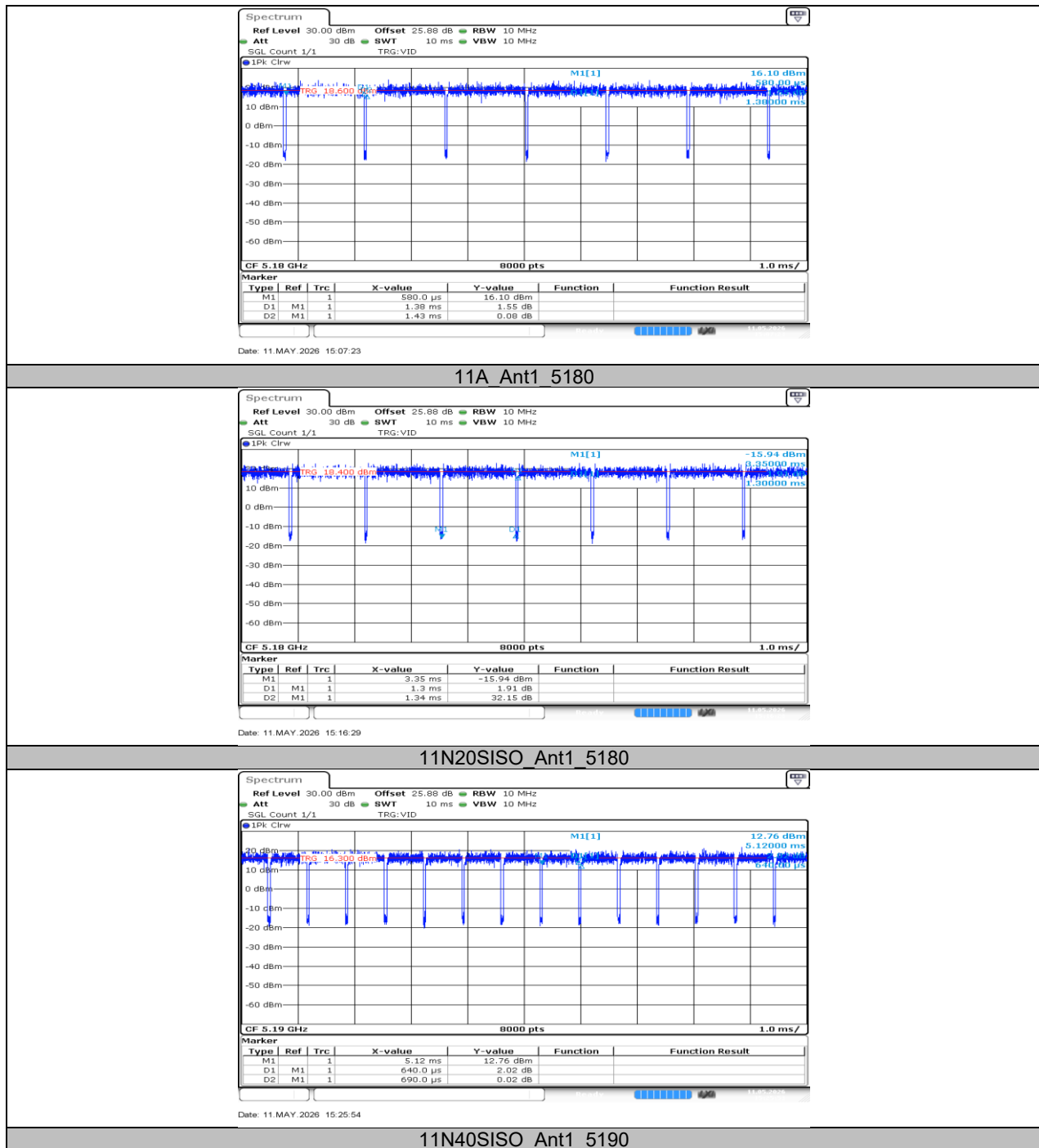
Duty Cycle Correction Factor=10log (1/x).

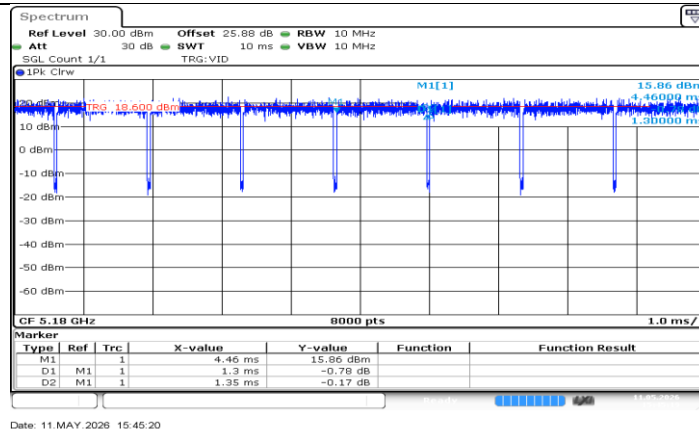
Where: x is Duty Cycle (Linear)

Where: T is On Time

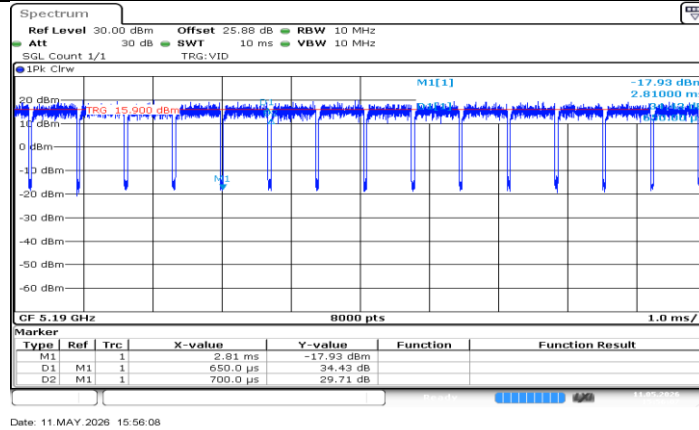
If that calculated VBW is not available on the analyzer then the next higher value should be used.

11.6.2. Test Graphs

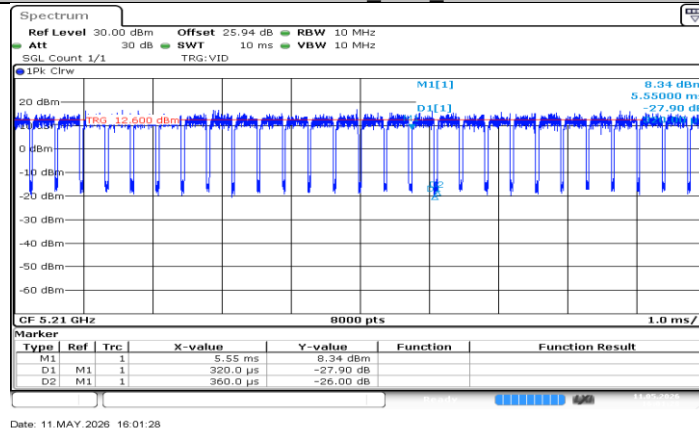




11AC20SISO_Ant1_5180



11AC40SISO_Ant1_5190

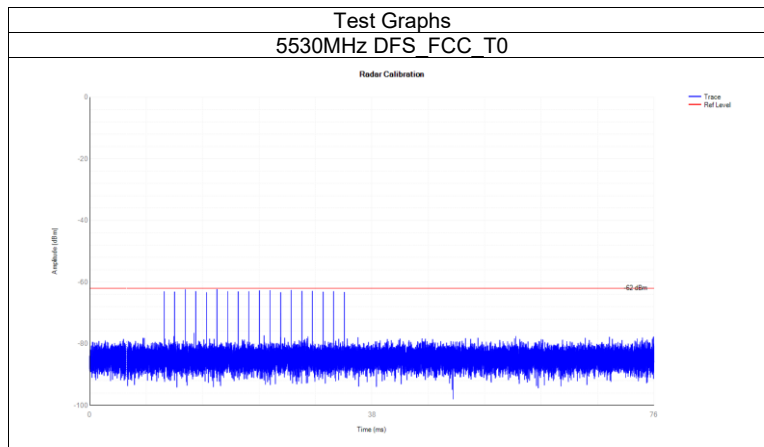


11AC80SISO_Ant1_5210

11.7. APPENDIX H: DFS

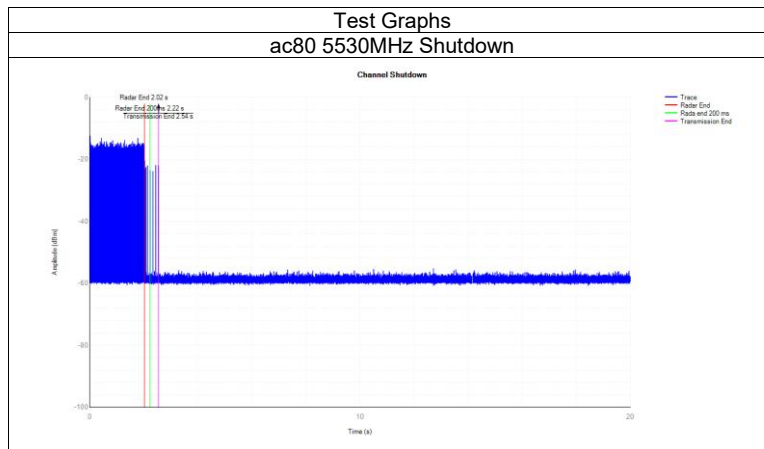
11.7.1. Calibration

Mode	Frequency (MHz)	Type	Result	Verdict
ac80	5530	DFS_FCC_T0	See test Graph	Pass



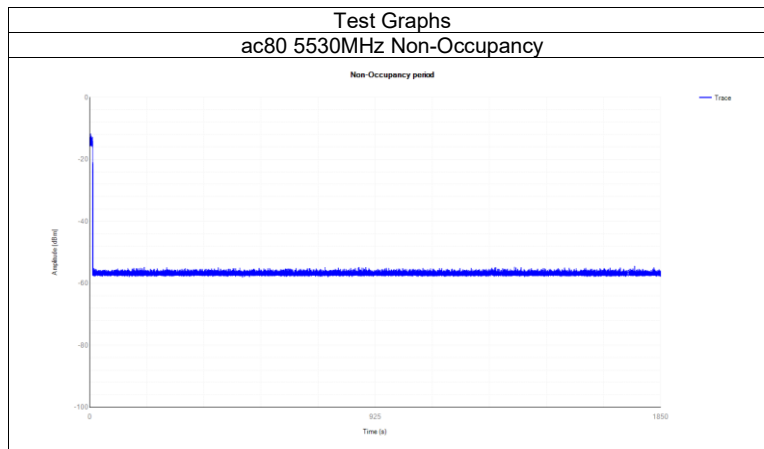
11.7.2. Shutdown Time

Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
ac80	5530	0.52	10	0.019	0.26	0.005	0.06	Pass



11.7.3. Non-Occupancy

Mode	Frequency (MHz)	Result	Verdict
ac80	5530	See test Graph	Pass



END OF REPORT