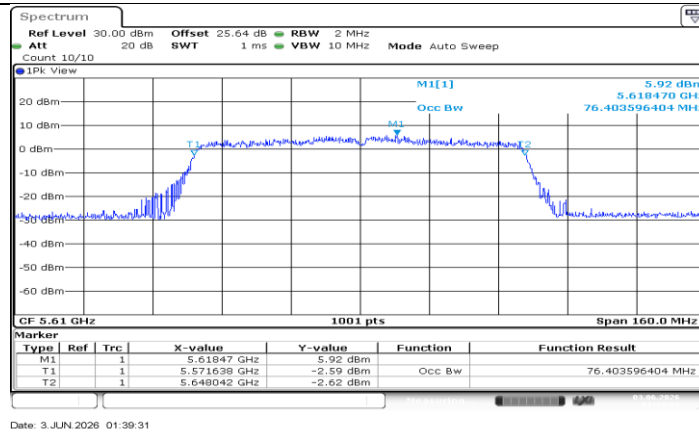
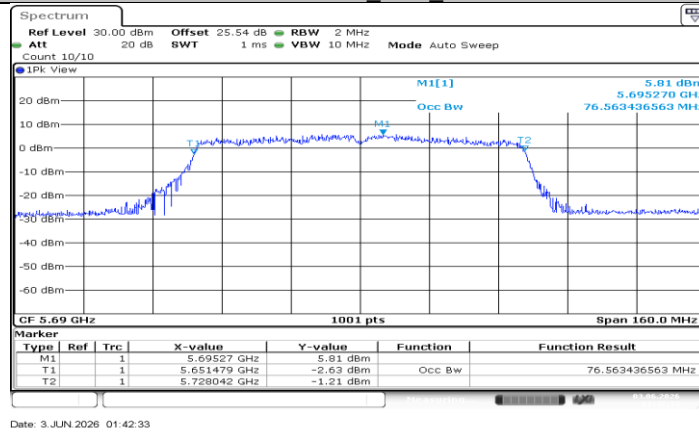
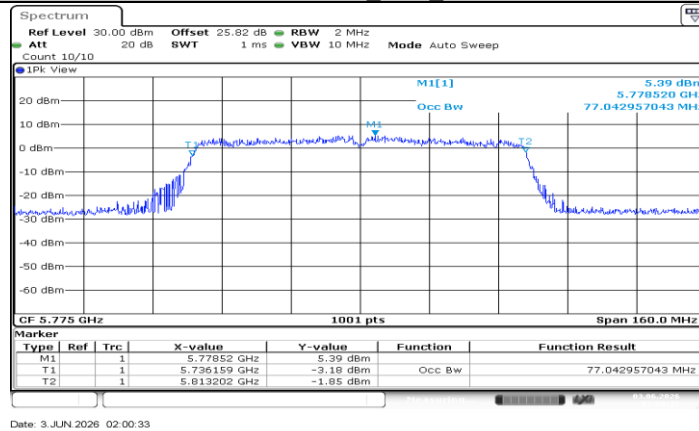




11AC80SISO Ant1_5610



11AC80SISO Ant1_5690



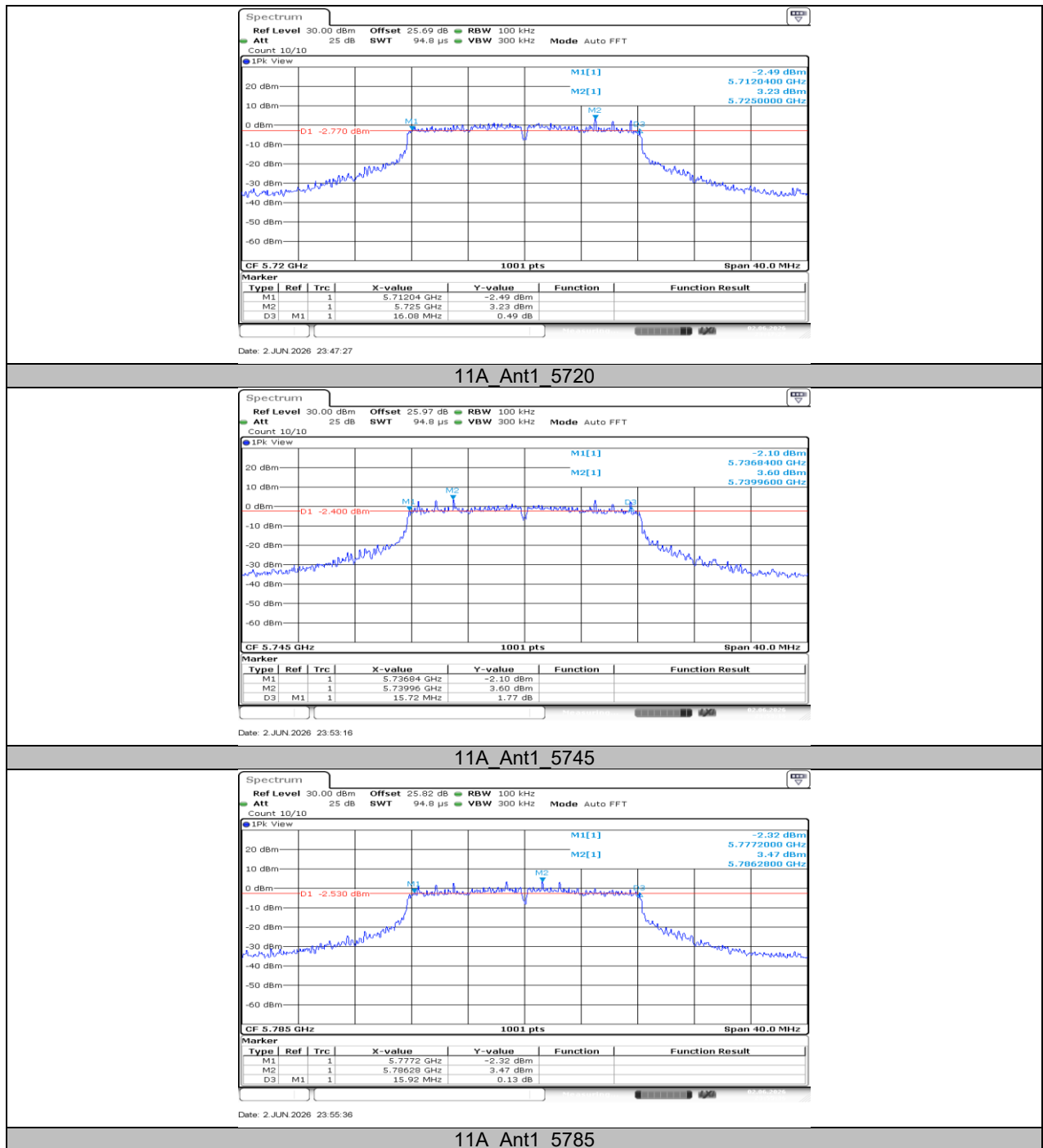
11AC80SISO Ant1_5775

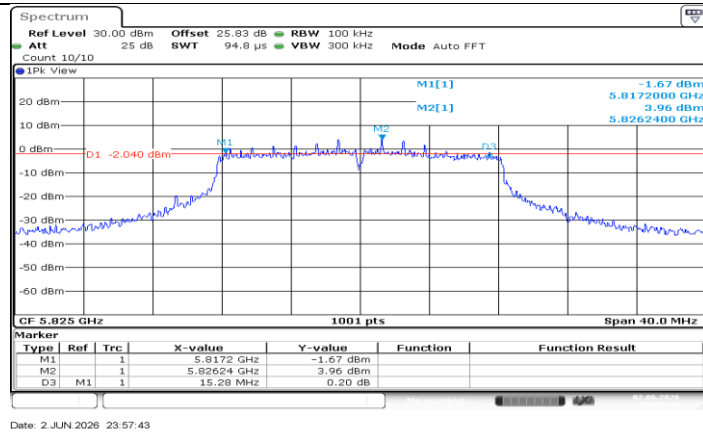
11.3. APPENDIX C: MIN EMISSION BANDWIDTH

11.3.1. Test Result

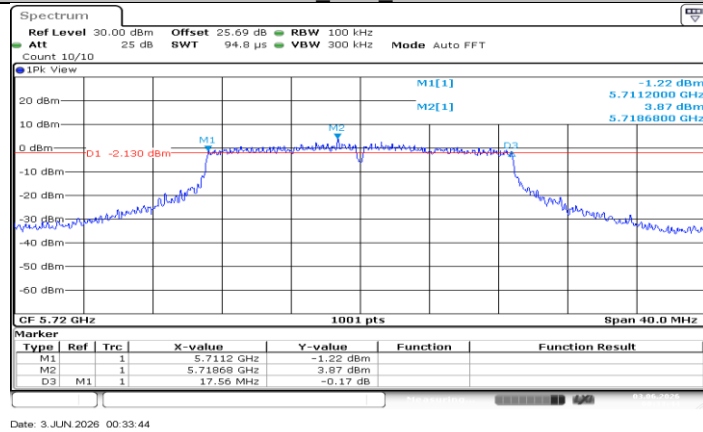
Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5720	16.08	5712.04	5728.12	---	---
		5720 UNII-2C	12.96	5712.04	5725	---	---
		5720 UNII-3	3.12	5725	5728.12	≥0.5	PASS
		5745	15.72	5736.84	5752.56	≥0.5	PASS
		5785	15.92	5777.20	5793.12	≥0.5	PASS
		5825	15.28	5817.20	5832.48	≥0.5	PASS
11N20SISO	Ant1	5720	17.56	5711.20	5728.76	---	---
		5720 UNII-2C	13.8	5711.20	5725	---	---
		5720 UNII-3	3.76	5725	5728.76	≥0.5	PASS
		5745	17.60	5736.16	5753.76	≥0.5	PASS
		5785	16.76	5776.60	5793.36	≥0.5	PASS
		5825	15.72	5816.84	5832.56	≥0.5	PASS
11N40SISO	Ant1	5710	35.36	5692.24	5727.60	---	---
		5710 UNII-2C	32.76	5692.24	5725	---	---
		5710 UNII-3	2.6	5725	5727.60	≥0.5	PASS
		5755	35.76	5736.84	5772.60	≥0.5	PASS
		5795	35.44	5777.48	5812.92	≥0.5	PASS
		5690	75.04	5652.40	5727.44	---	---
11AC80SISO	Ant1	5690 UNII-2C	72.6	5652.40	5725	---	---
		5690 UNII-3	2.44	5725	5727.44	≥0.5	PASS
		5775	75.20	5737.40	5812.60	≥0.5	PASS

11.3.2. Test Graphs

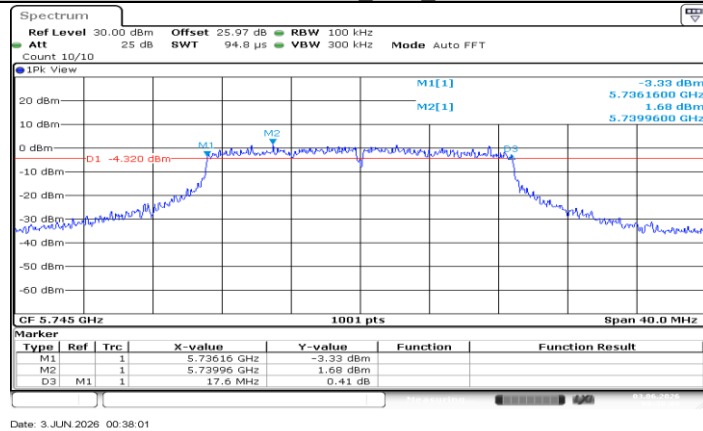




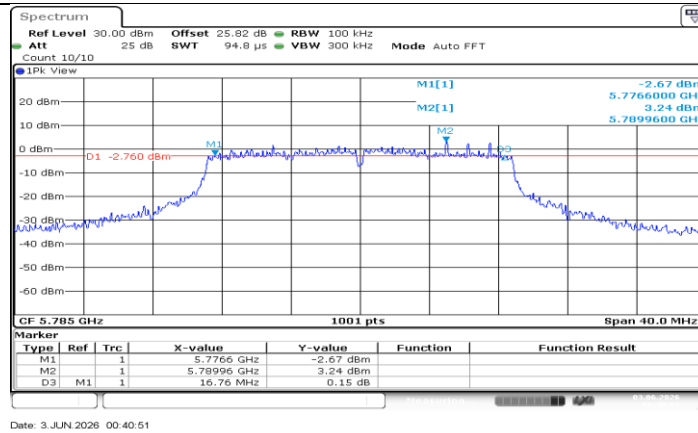
11A_Ant1_5825



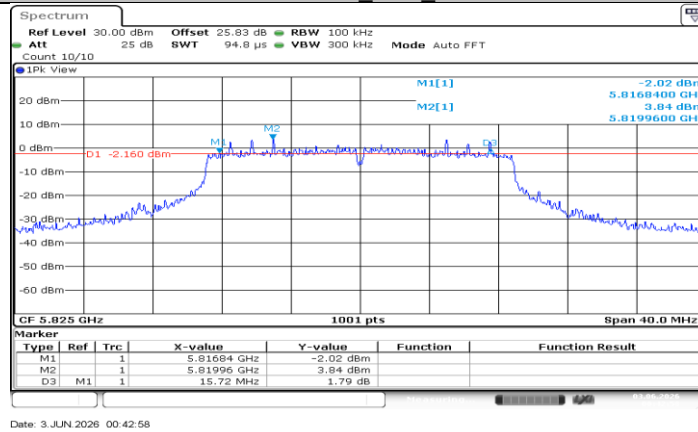
11N20SISO_Ant1_5720



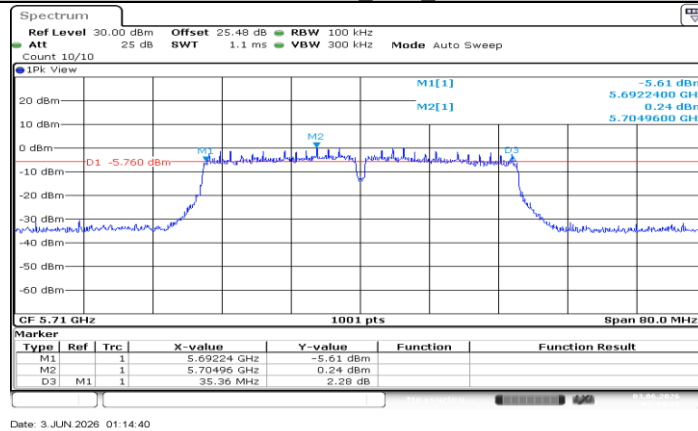
11N20SISO_Ant1_5745



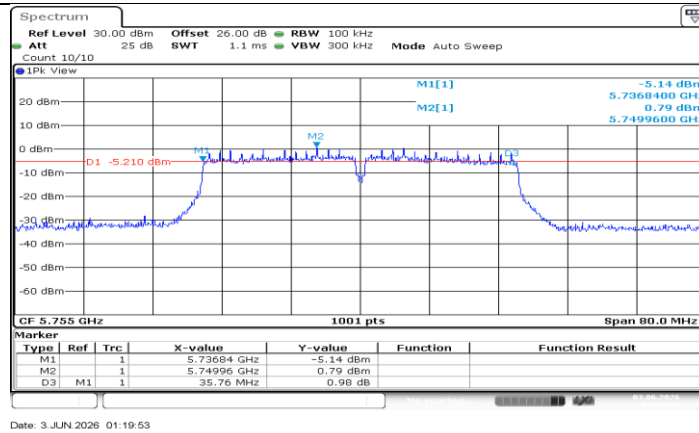
11N20SISO_Ant1_5785



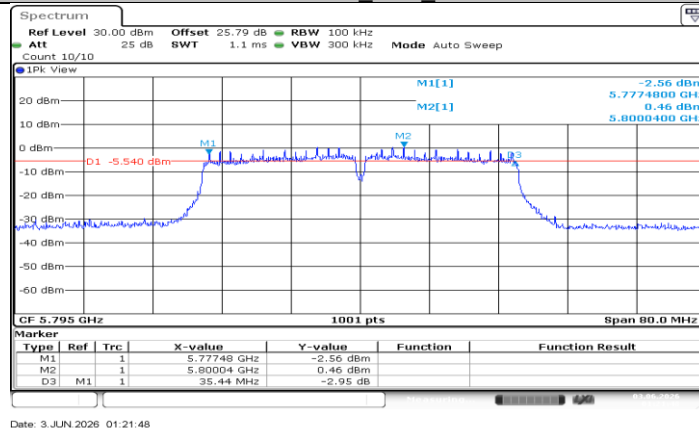
11N20SISO_Ant1_5825



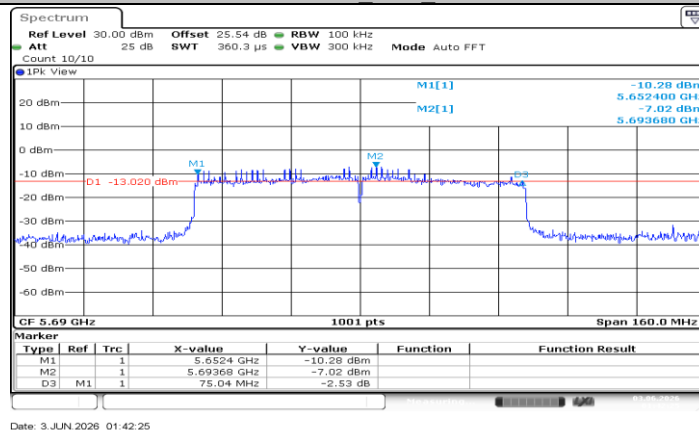
11N40SISO_Ant1_5710



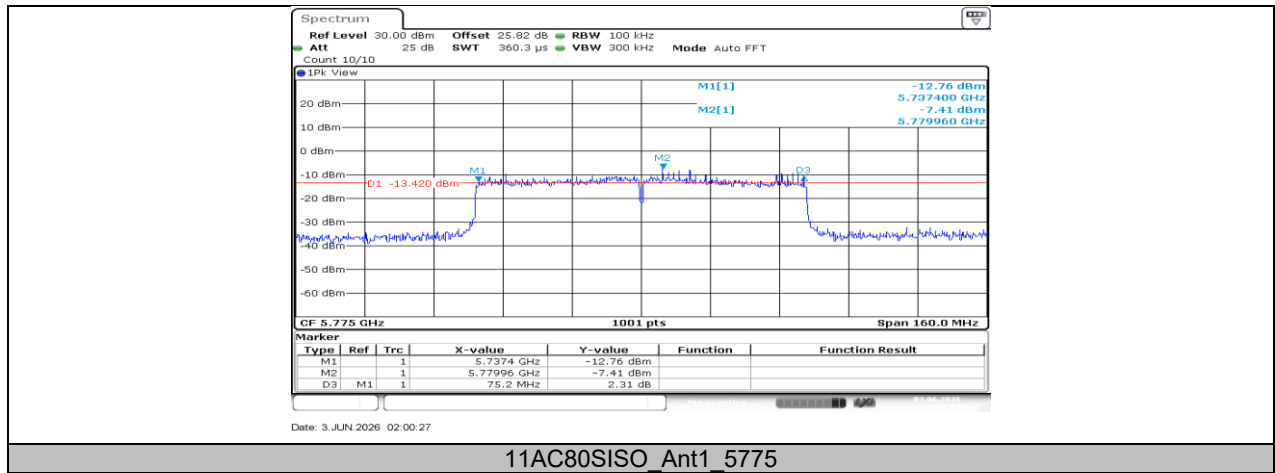
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC80SISO_Ant1_5690



11.4. APPENDIX D: MAXIMUM CONDUCTED OUTPUT POWER

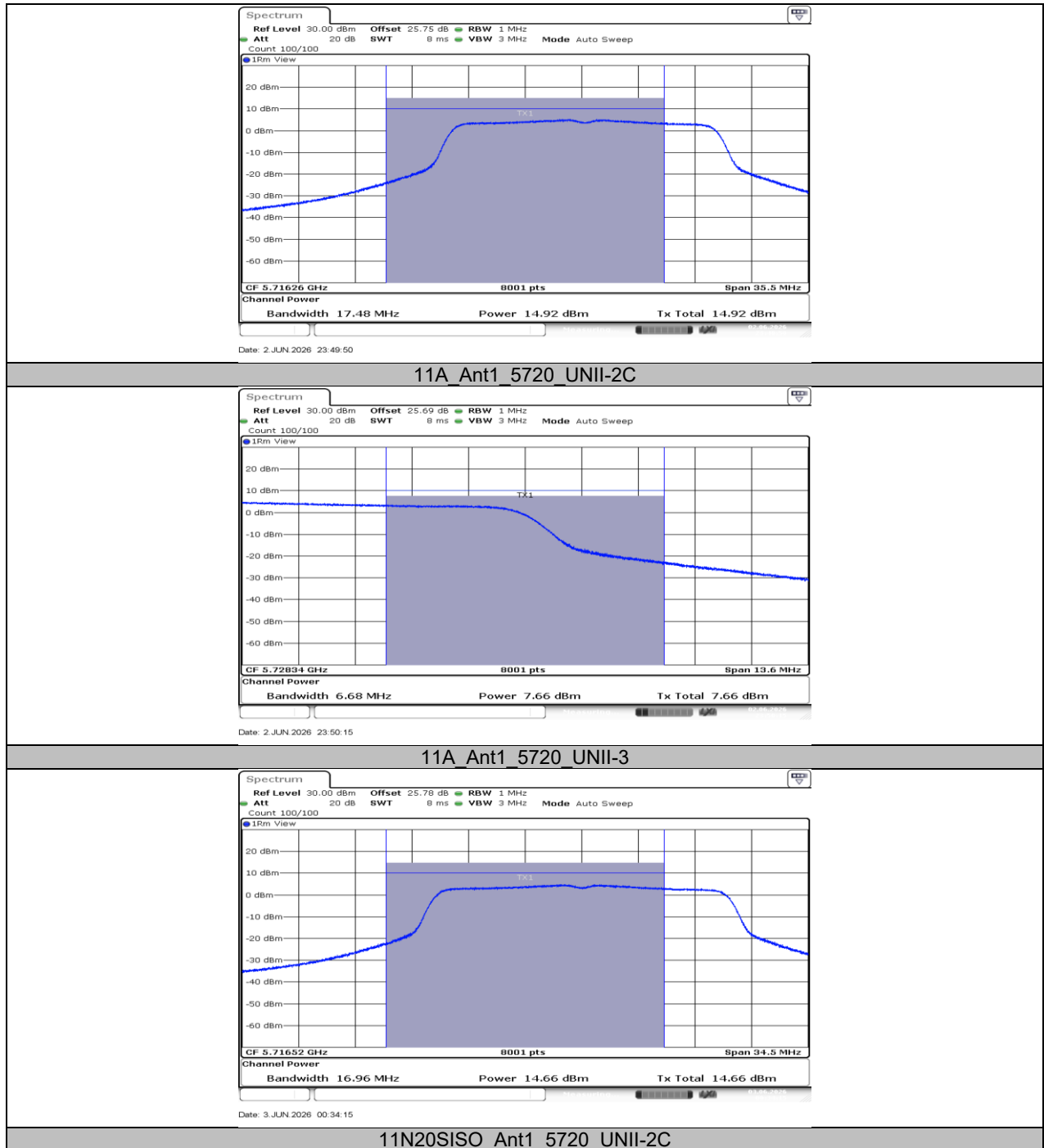
11.4.1. Test Result

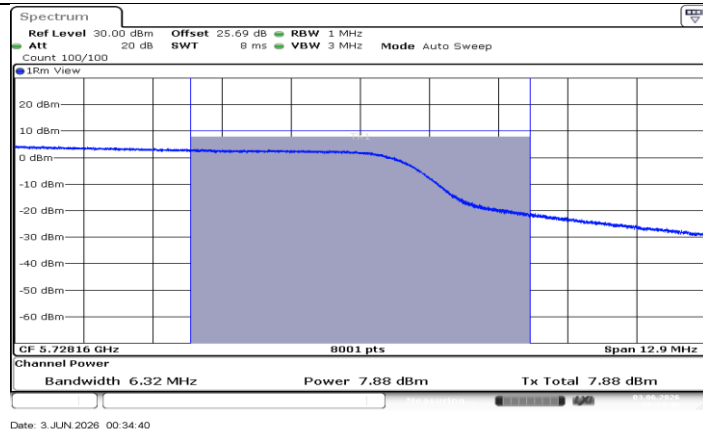
Test Mode	Antenna	Frequency[MHz]	Power [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	14.63	≤23.98	---	15.23	≤22.36	PASS
		5200	14.56	≤23.98	---	15.16	≤22.37	PASS
		5240	14.65	≤23.98	---	15.25	≤22.37	PASS
		5260	14.41	≤23.98	≤23.36	15.01	≤29.36	PASS
		5280	14.03	≤23.98	≤23.37	14.63	≤29.37	PASS
		5320	14.24	≤23.98	≤23.36	14.84	≤29.36	PASS
		5500	14.59	≤23.98	≤23.38	15.19	≤29.38	PASS
		5580	14.27	≤23.98	≤23.37	14.87	≤29.37	PASS
		5700	14.13	≤23.98	≤23.38	14.73	≤29.38	PASS
		5720 UNII-2C	14.92	≤23.43	≤22.36	15.52	≤28.36	PASS
		5720 UNII-3	7.66	≤30.00	≤30.00	8.26	---	PASS
		5745	14.24	≤30.00	≤30.00	14.84	---	PASS
		5785	14.09	≤30.00	≤30.00	14.69	---	PASS
		5825	14.20	≤30.00	≤30.00	14.80	---	PASS
11N20SISO	Ant1	5180	14.53	≤23.98	---	15.13	≤22.62	PASS
		5200	14.47	≤23.98	---	15.07	≤22.64	PASS
		5240	14.54	≤23.98	---	15.14	≤22.65	PASS
		5260	14.34	≤23.98	≤23.63	14.94	≤29.63	PASS
		5280	14.33	≤23.98	≤23.64	14.93	≤29.64	PASS
		5320	14.08	≤23.98	≤23.64	14.68	≤29.64	PASS
		5500	14.46	≤23.98	≤23.64	15.06	≤29.64	PASS
		5580	14.13	≤23.98	≤23.65	14.73	≤29.65	PASS
		5700	14.31	≤23.98	≤23.64	14.91	≤29.64	PASS
		5720 UNII-2C	14.66	≤23.29	≤22.53	15.26	≤28.53	PASS
		5720 UNII-3	7.88	≤30.00	≤30.00	8.48	---	PASS
		5745	14.52	≤30.00	≤30.00	15.12	---	PASS
		5785	14.29	≤30.00	≤30.00	14.89	---	PASS
		5825	14.20	≤30.00	≤30.00	14.80	---	PASS
11N40SISO	Ant1	5190	13.84	≤23.98	---	14.44	≤23.00	PASS
		5230	13.89	≤23.98	---	14.49	≤23.00	PASS
		5270	13.43	≤23.98	≤23.98	14.03	≤30.00	PASS
		5310	13.43	≤23.98	≤23.98	14.03	≤30.00	PASS
		5510	13.49	≤23.98	≤23.98	14.09	≤30.00	PASS
		5550	13.52	≤23.98	≤23.98	14.12	≤30.00	PASS
		5670	13.41	≤23.98	≤23.98	14.01	≤30.00	PASS
		5710 UNII-2C	13.42	≤23.98	≤23.98	14.02	≤30.00	PASS
		5710 UNII-3	1.86	≤30.00	≤30.00	2.46	---	PASS
		5755	13.84	≤30.00	≤30.00	14.44	---	PASS
		5795	13.71	≤30.00	≤30.00	14.31	---	PASS
11AC80SISO	Ant1	5210	10.59	≤23.98	---	11.19	≤23.00	PASS
		5290	10.37	≤23.98	≤23.98	10.97	≤30.00	PASS
		5530	10.26	≤23.98	≤23.98	10.86	≤30.00	PASS
		5610	10.17	≤23.98	≤23.98	10.77	≤30.00	PASS
		5690 UNII-2C	10.54	≤23.98	≤23.98	11.14	≤30.00	PASS
		5690 UNII-3	-4.94	≤30.00	≤30.00	-4.34	---	PASS
		5775	10.70	≤30.00	≤30.00	11.30	---	PASS

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

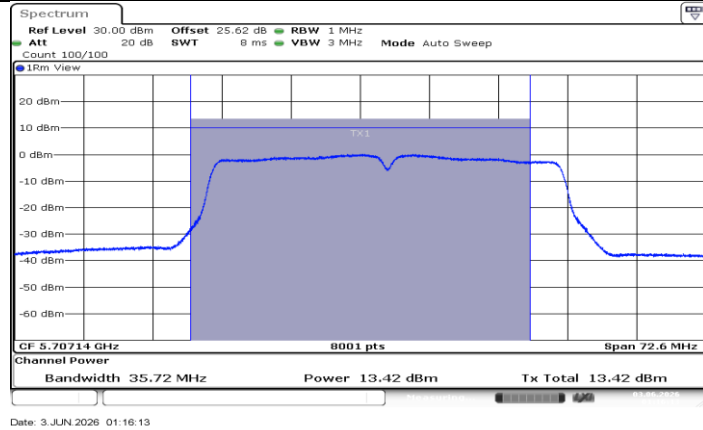
2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

11.4.2. Test Graphs

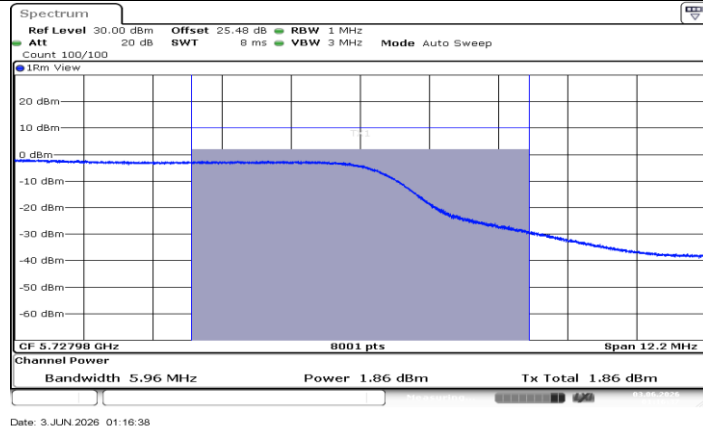




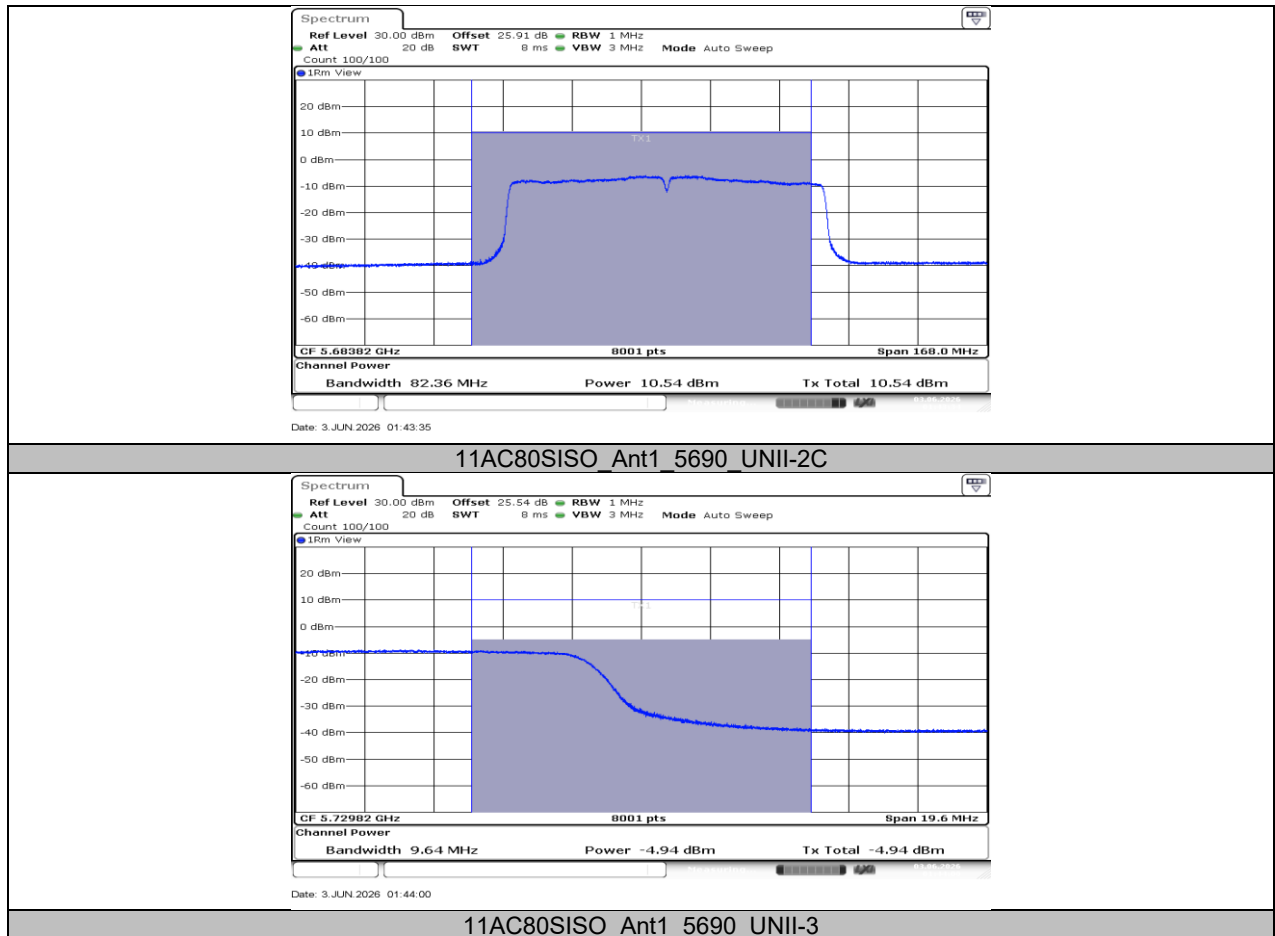
11N20SISO Ant1 5720 UNII-3



11N40SISO Ant1 5710 UNII-2C



11N40SISO Ant1 5710 UNII-3



11.5. APPENDIX E: MAXIMUM POWER SPECTRAL DENSITY

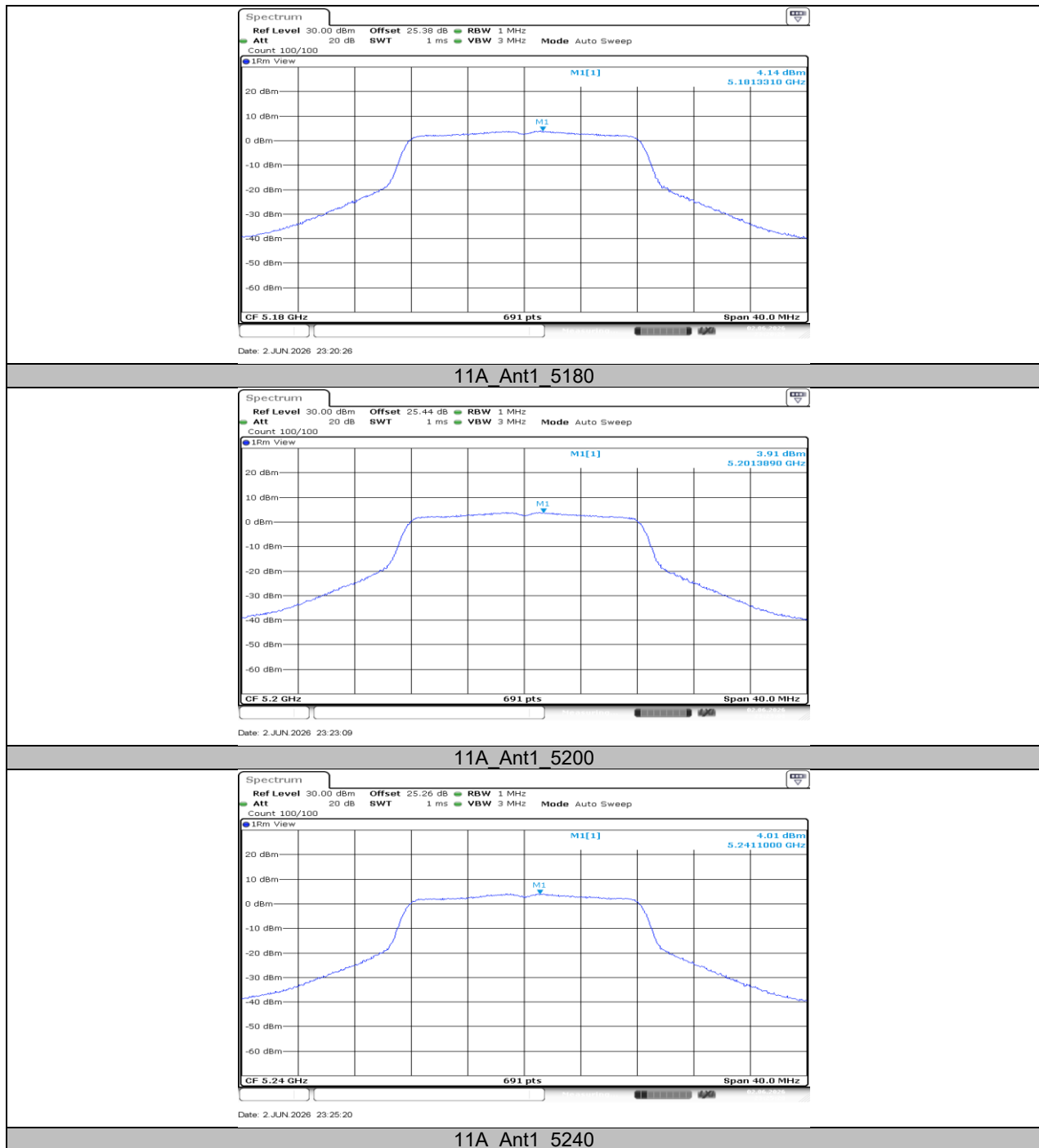
11.5.1. Test Result

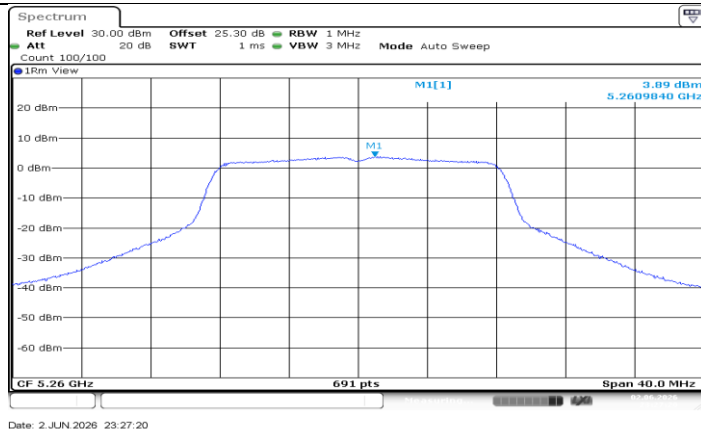
Test Mode	Antenna	Frequency[MHz]	Power [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	4.14	≤11.00	4.74	≤10.00	PASS
		5200	3.91	≤11.00	4.51	≤10.00	PASS
		5240	4.01	≤11.00	4.61	≤10.00	PASS
		5260	3.89	≤11.00	4.49	---	PASS
		5280	3.39	≤11.00	3.99	---	PASS
		5320	3.60	≤11.00	4.20	---	PASS
		5500	3.97	≤11.00	4.57	---	PASS
		5580	3.57	≤11.00	4.17	---	PASS
		5700	3.59	≤11.00	4.19	---	PASS
		5720 UNII-2C	5.04	≤11.00	5.64	---	PASS
		5720 UNII-3	0.43	≤30.00	1.03	---	PASS
		5745	0.66	≤30.00	1.26	---	PASS
		5785	0.59	≤30.00	1.19	---	PASS
		5825	0.78	≤30.00	1.38	---	PASS
11N20SISO	Ant1	5180	3.58	≤11.00	4.18	≤10.00	PASS
		5200	3.49	≤11.00	4.09	≤10.00	PASS
		5240	3.65	≤11.00	4.25	≤10.00	PASS
		5260	3.45	≤11.00	4.05	---	PASS
		5280	3.44	≤11.00	4.04	---	PASS
		5320	3.03	≤11.00	3.63	---	PASS
		5500	3.56	≤11.00	4.16	---	PASS
		5580	3.35	≤11.00	3.95	---	PASS
		5700	3.34	≤11.00	3.94	---	PASS
		5720 UNII-2C	4.70	≤11.00	5.30	---	PASS
		5720 UNII-3	0.04	≤30.00	0.64	---	PASS
		5745	0.85	≤30.00	1.45	---	PASS
		5785	0.56	≤30.00	1.16	---	PASS
		5825	0.40	≤11.00	1.00	---	PASS
11N40SISO	Ant1	5190	-0.13	≤11.00	0.47	≤10.00	PASS
		5230	0.10	≤11.00	0.70	≤10.00	PASS
		5270	-0.43	≤11.00	0.17	≤10.00	PASS
		5310	-0.40	≤11.00	0.20	---	PASS
		5510	-0.42	≤11.00	0.18	---	PASS
		5550	-0.39	≤11.00	0.21	---	PASS
		5670	-0.52	≤11.00	0.08	---	PASS
		5710 UNII-2C	-0.11	≤11.00	0.49	---	PASS
		5710 UNII-3	-5.64	≤30.00	-5.04	---	PASS
		5755	-2.73	≤30.00	-2.13	---	PASS
		5795	-3.03	≤30.00	-2.43	---	PASS
		5210	-6.53	≤11.00	-5.93	≤10.00	PASS
11AC80SISO	Ant1	5290	-6.58	≤11.00	-5.98	---	PASS
		5530	-6.67	≤11.00	-6.07	---	PASS
		5610	-6.60	≤11.00	-6.00	---	PASS
		5690 UNII-2C	-6.31	≤11.00	-5.71	---	PASS
		5690 UNII-3	-12.02	≤30.00	-11.42	---	PASS
		5775	-9.38	≤30.00	-8.78	---	PASS

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

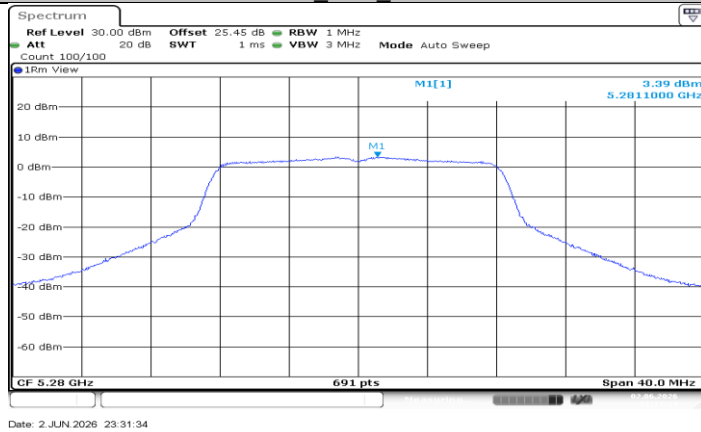
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

11.5.2. Test Graphs

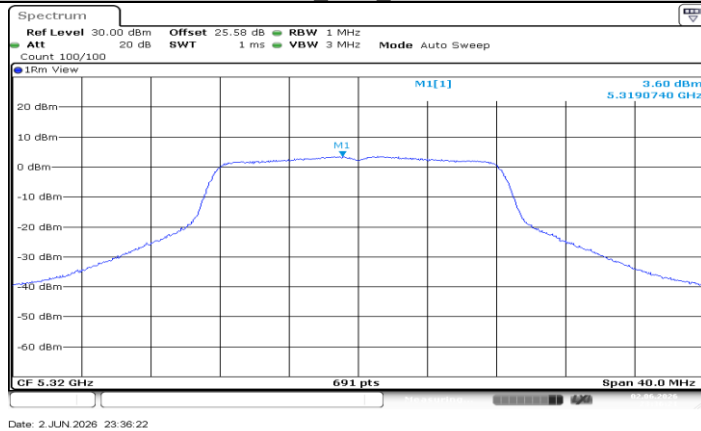




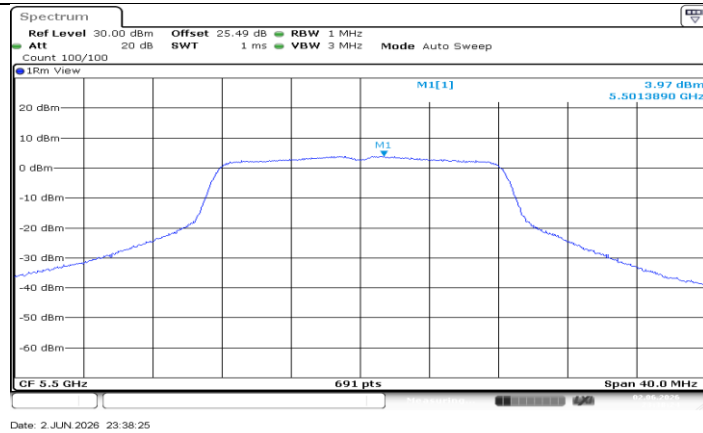
11A Ant1 5260



11A Ant1 5280



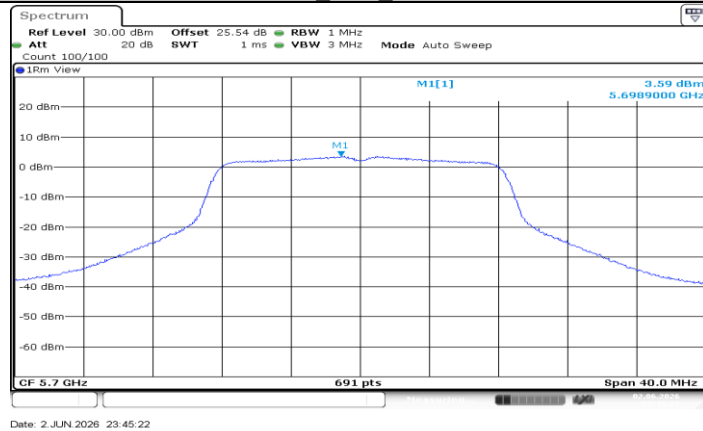
11A Ant1 5320



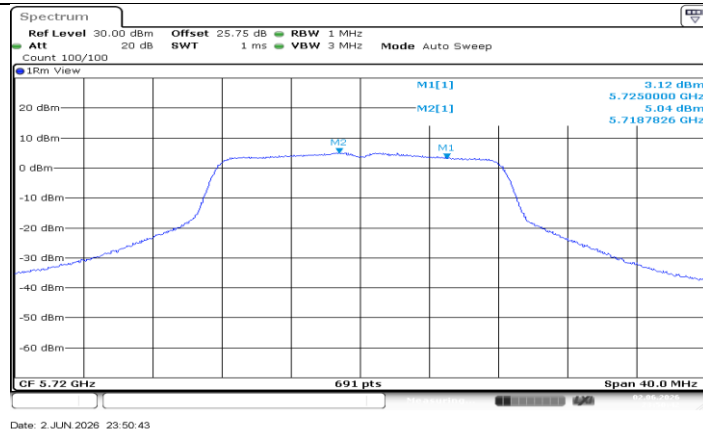
11A Ant1 5500



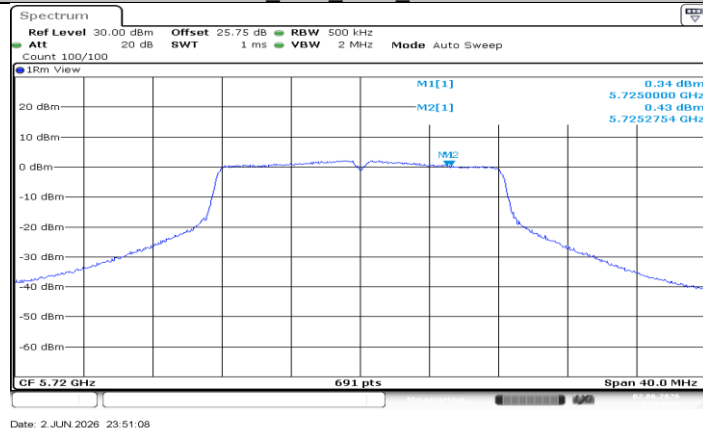
11A Ant1 5580



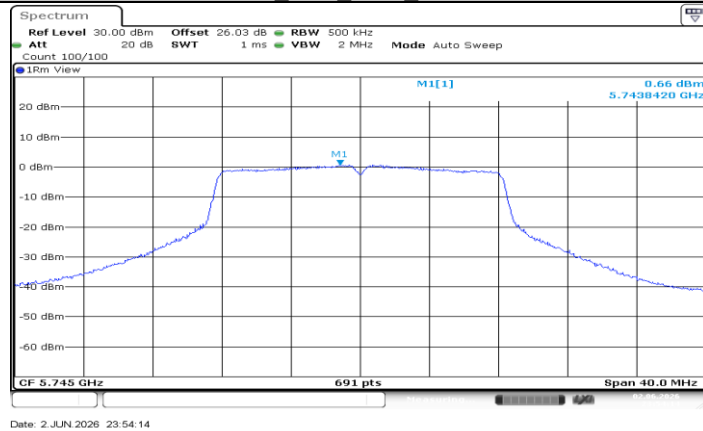
11A Ant1 5700



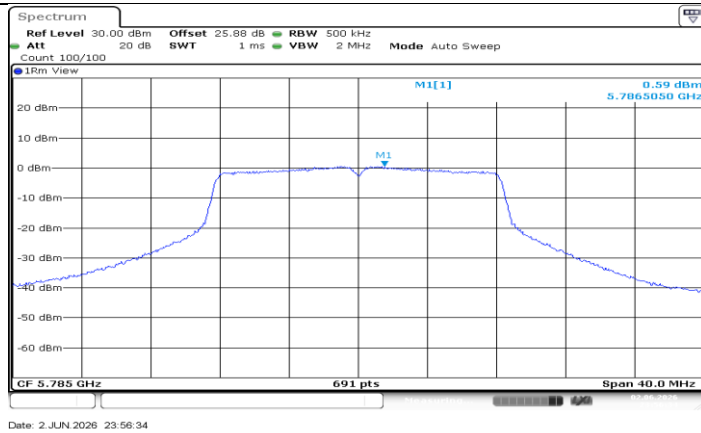
11A Ant1 5720 UNII-2C



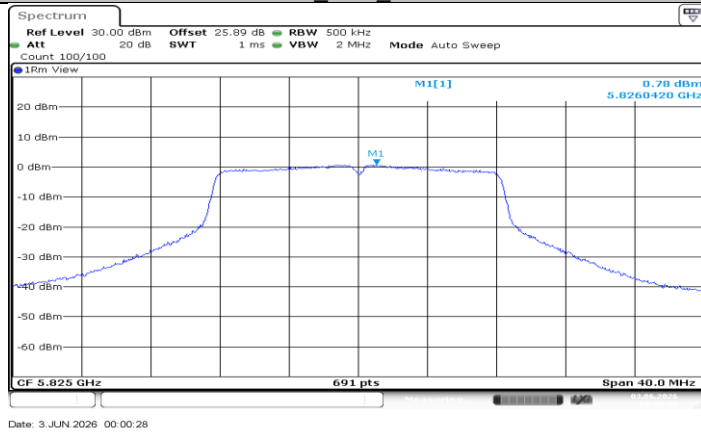
11A Ant1 5720 UNII-3



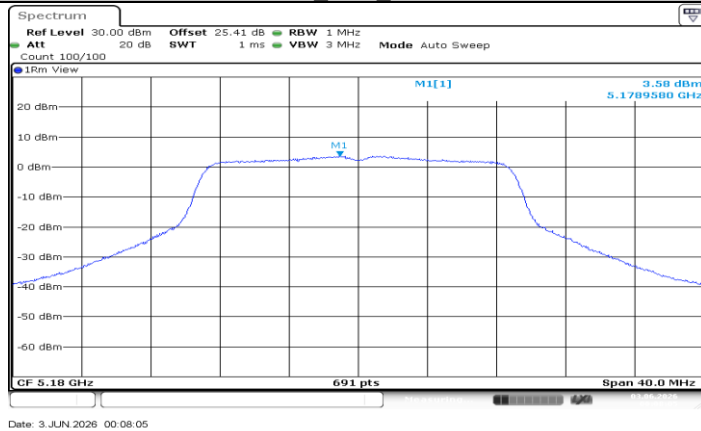
11A Ant1 5745



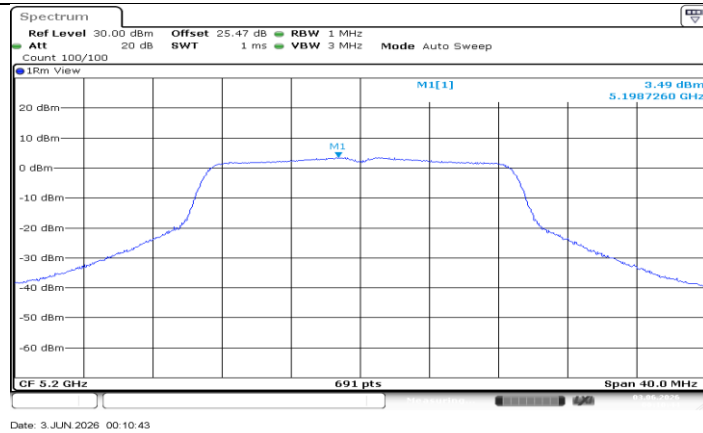
11A Ant1 5785



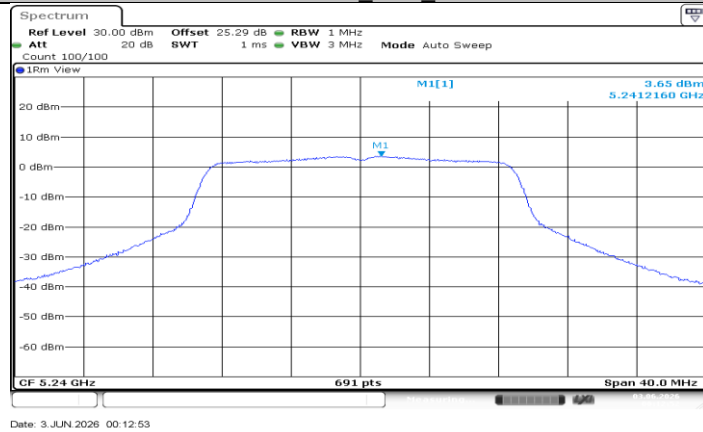
11A Ant1 5825



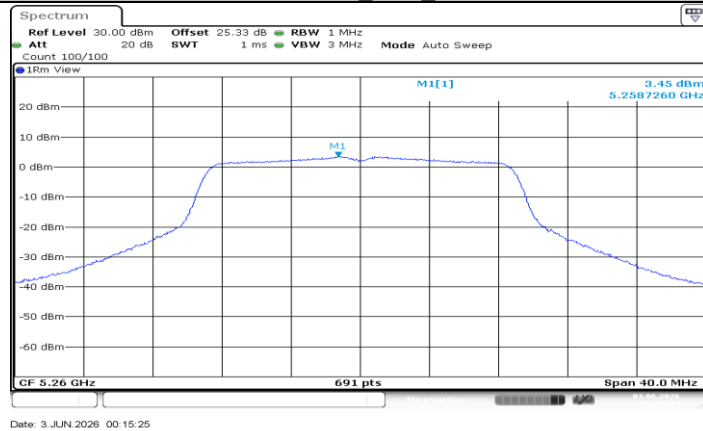
11N20SISO Ant1 5180



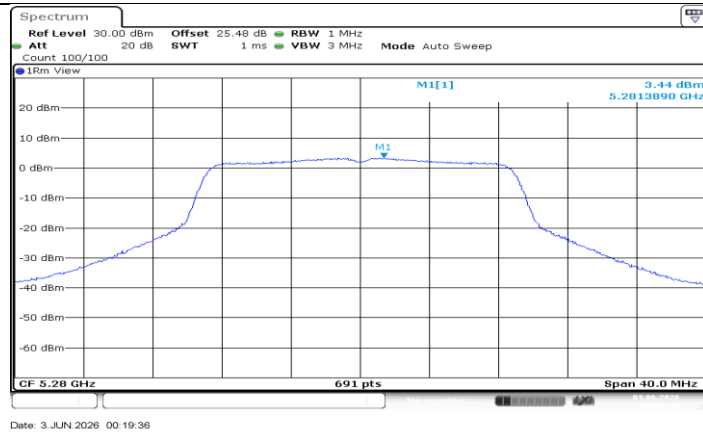
11N20SISO_Ant1_5200



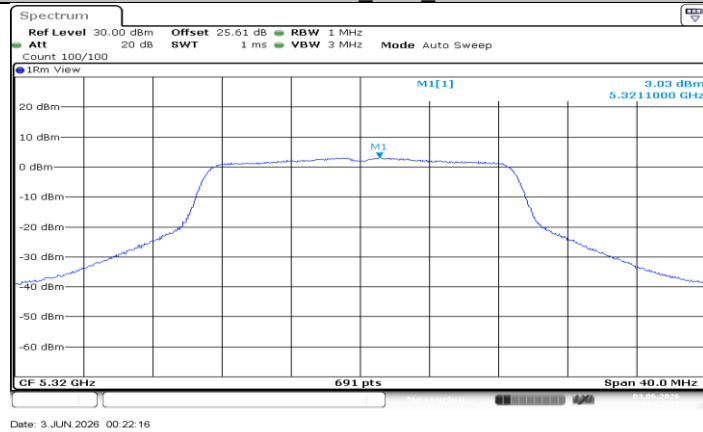
11N20SISO_Ant1_5240



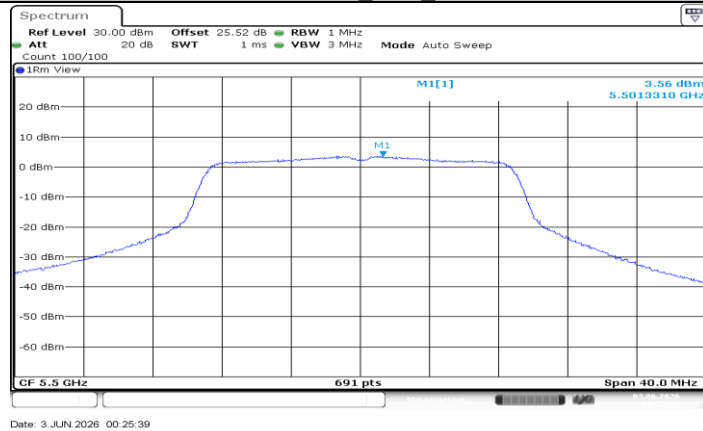
11N20SISO_Ant1_5260



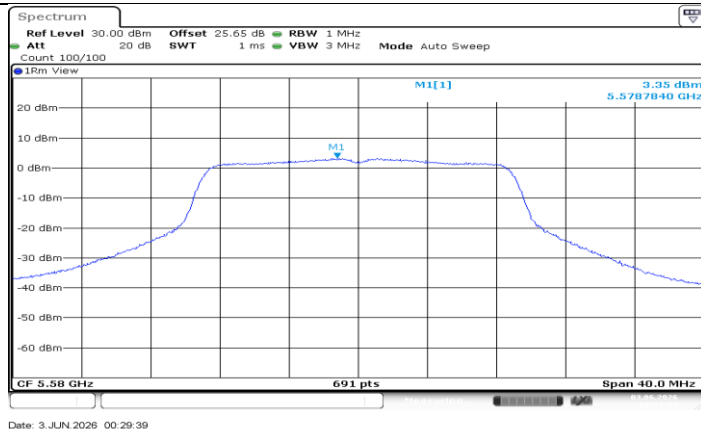
11N20SISO_Ant1_5280



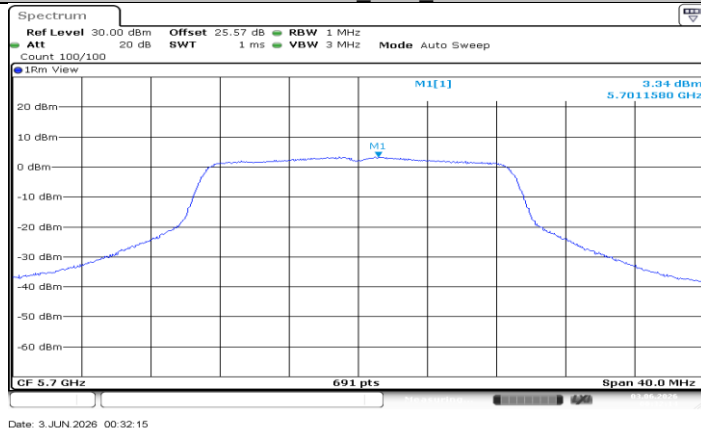
11N20SISO_Ant1_5320



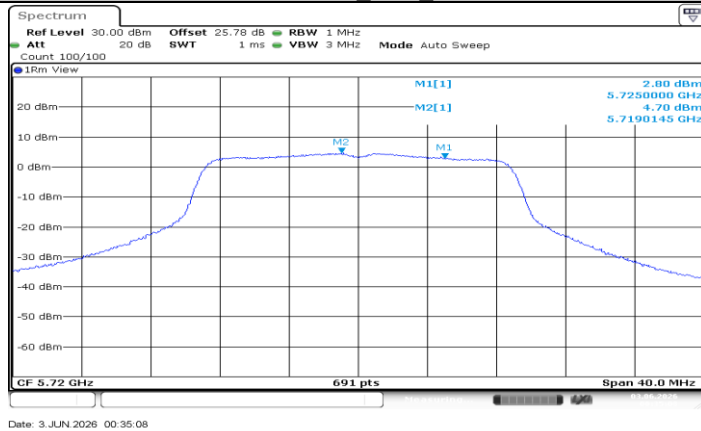
11N20SISO_Ant1_5500



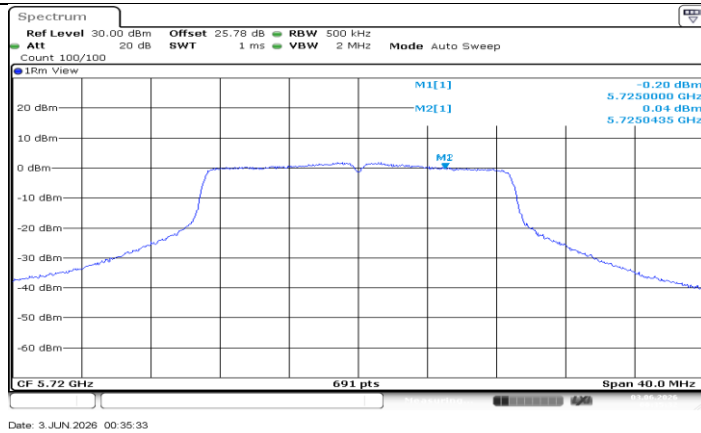
11N20SISO_Ant1_5580



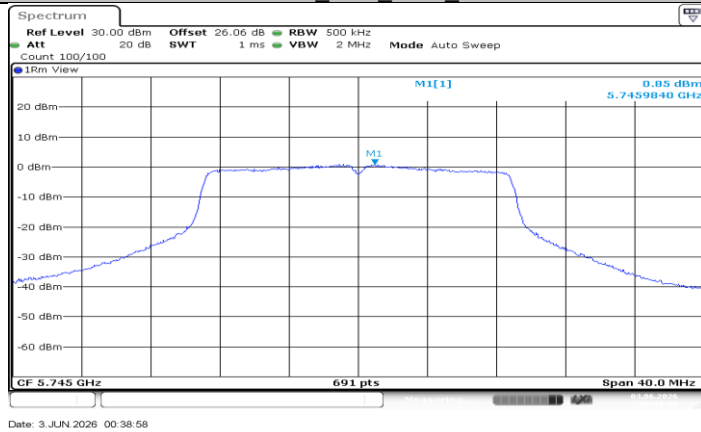
11N20SISO_Ant1_5700



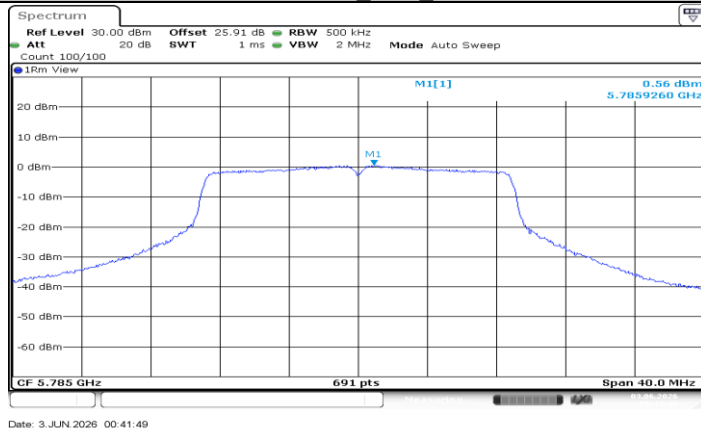
11N20SISO_Ant1_5720_UNII-2C



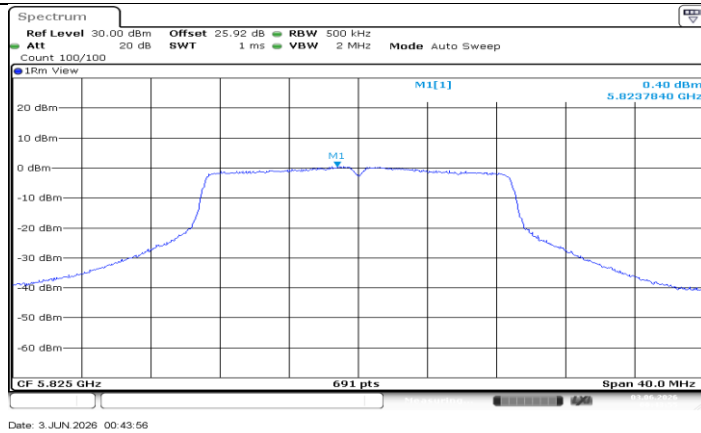
11N20SISO Ant1 5720 UNII-3



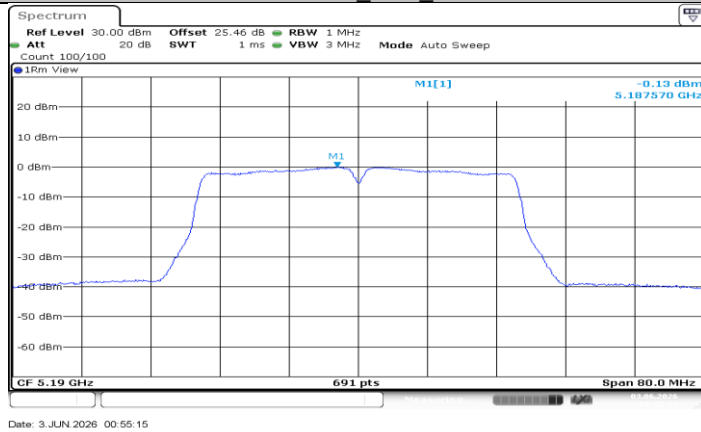
11N20SISO Ant1 5745



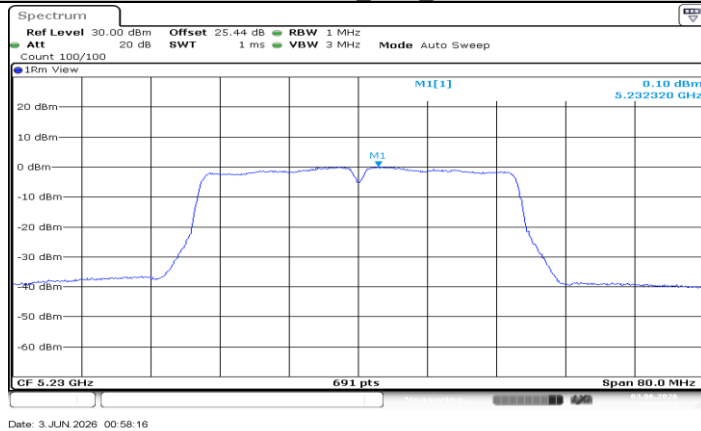
11N20SISO Ant1 5785



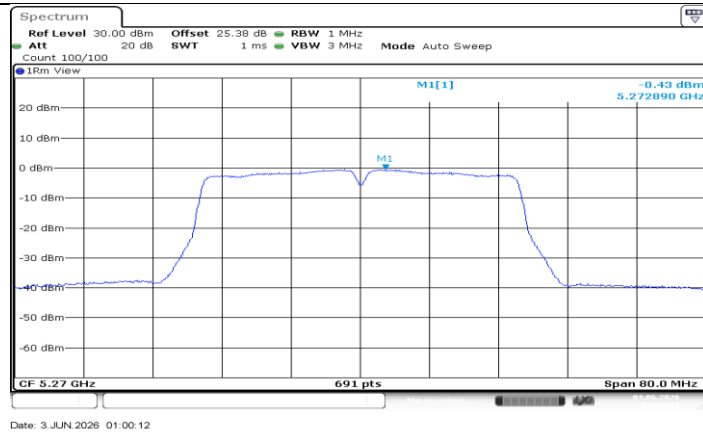
11N20SISO_Ant1_5825



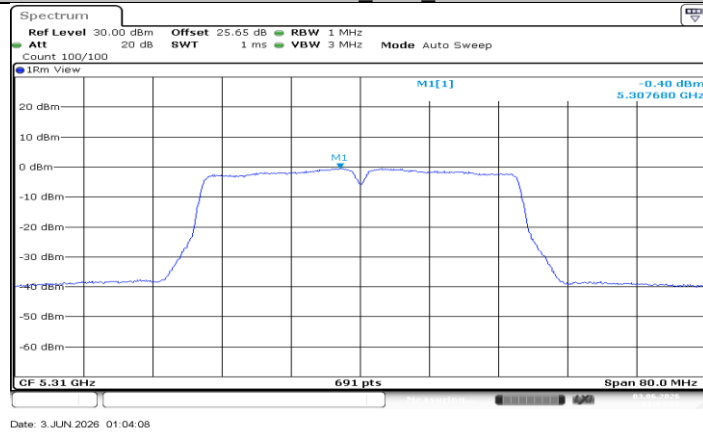
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



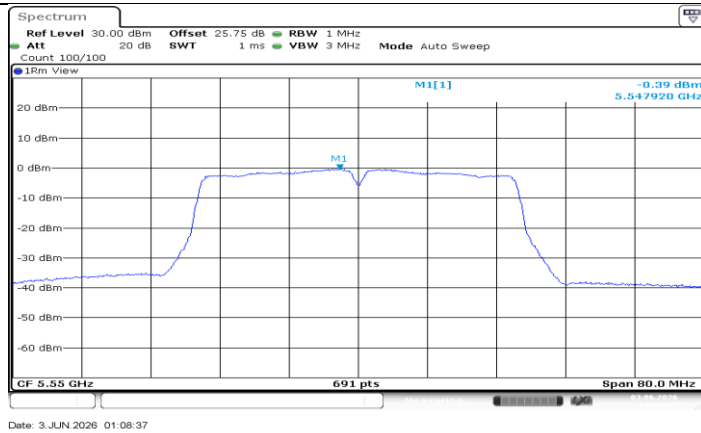
11N40SISO_Ant1_5270



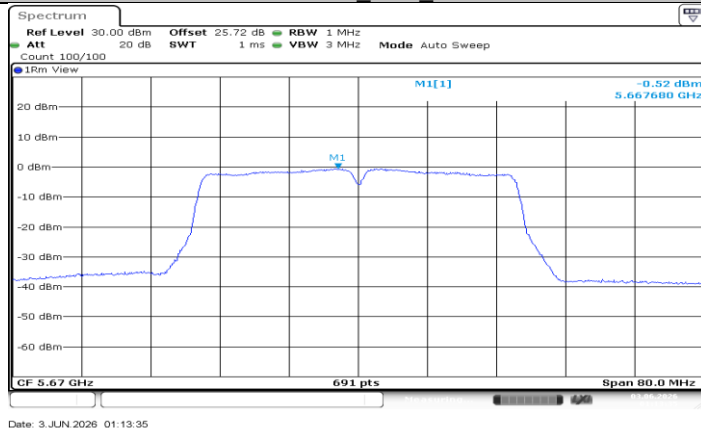
11N40SISO_Ant1_5310



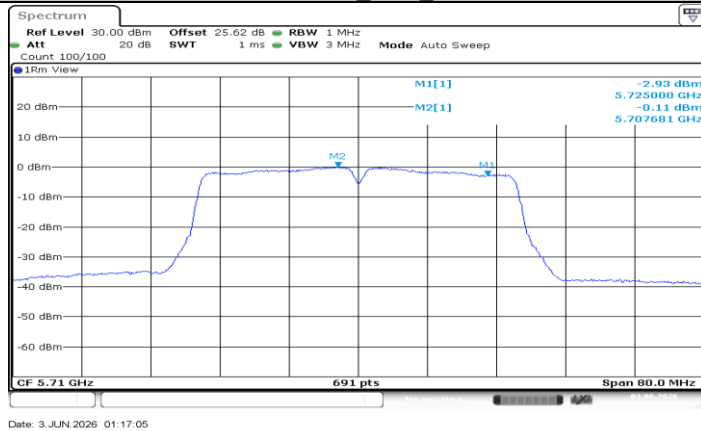
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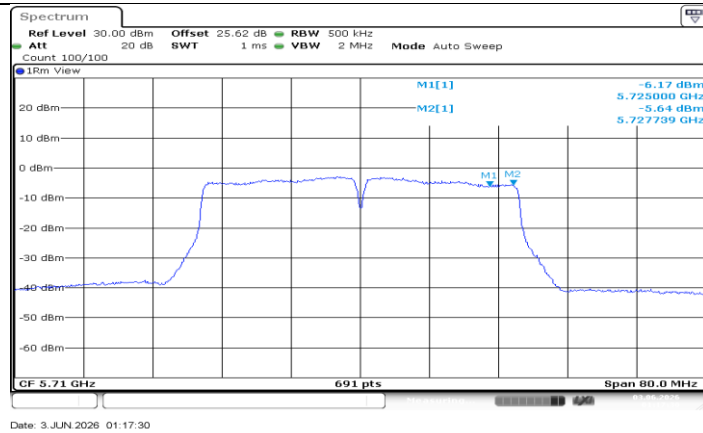
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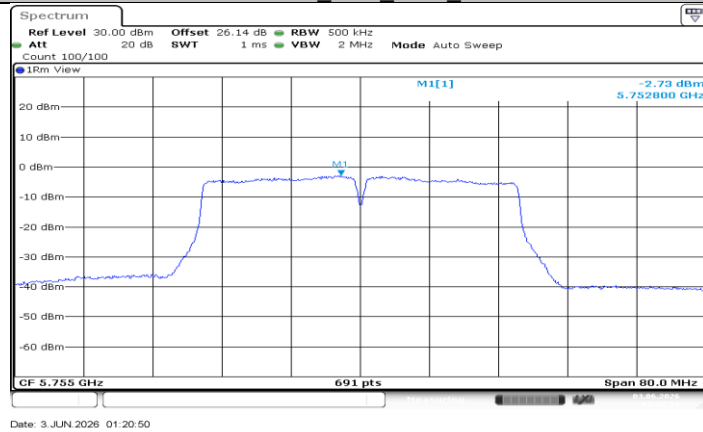
11N40SISO_Ant1_5670



11N40SISO_Ant1_5710_UNII-2C



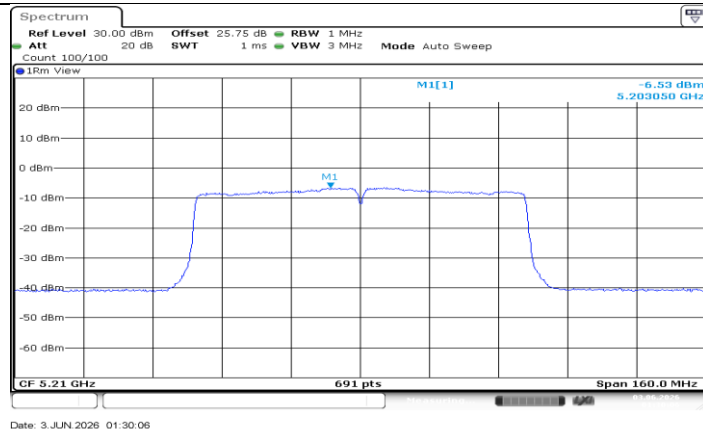
11N40SISO_Ant1_5710_UNII-3



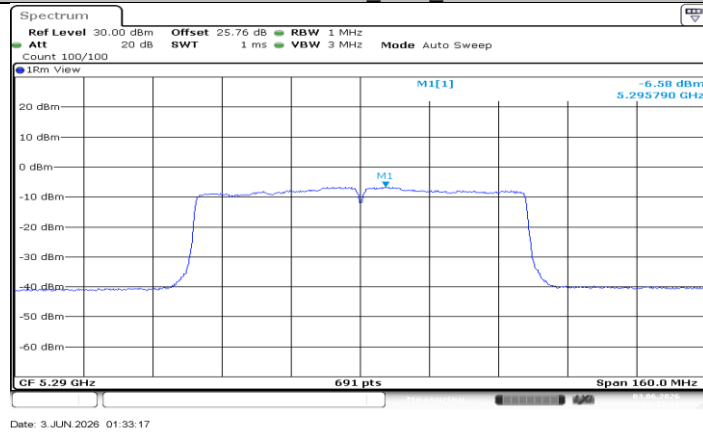
11N40SISO_Ant1_5755



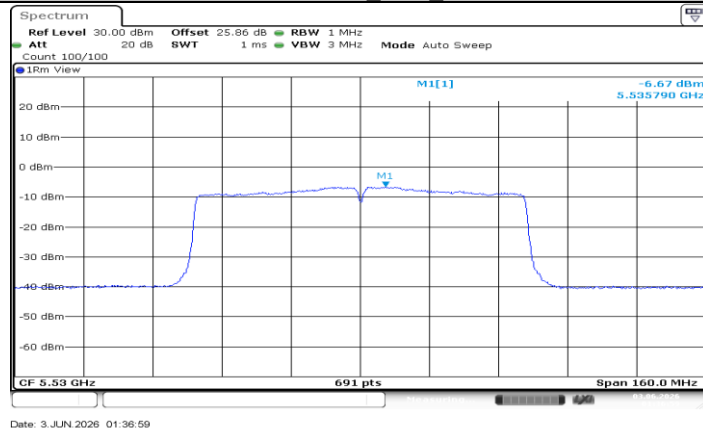
11N40SISO_Ant1_5795



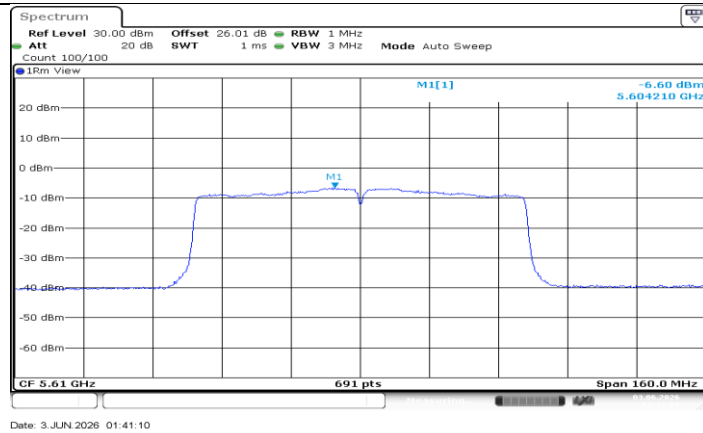
11AC80SISO_Ant1_5210



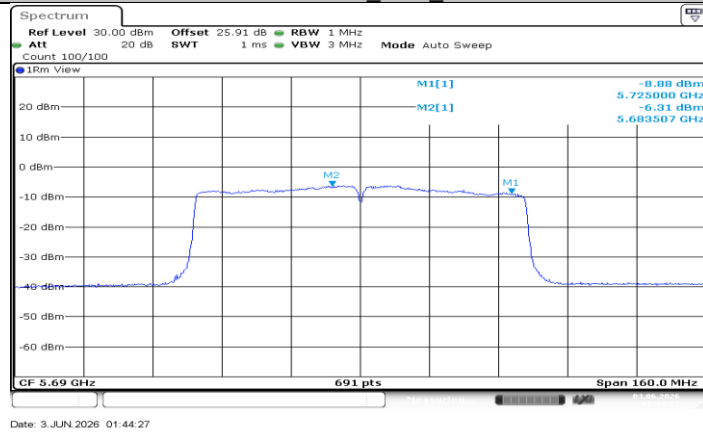
11AC80SISO_Ant1_5290



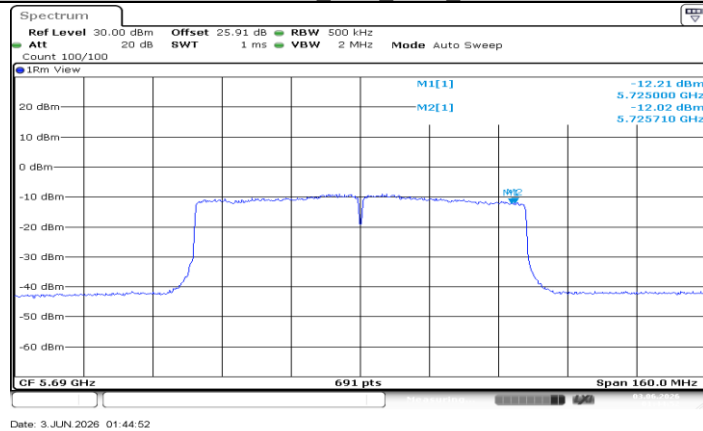
11AC80SISO_Ant1_5530



11AC80SISO Ant1_5610



11AC80SISO Ant1_5690 UNII-2C



11AC80SISO Ant1_5690 UNII-3



11.6. APPENDIX F: FREQUENCY STABILITY

11.6.1. 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	5200.0216	4.16	5200.0053	1.03	5199.9764	-4.53	5200.0098	1.88
TN	VN	5200.0197	3.79	5200.0040	0.77	5199.9860	-2.70	5200.0185	3.56
TN	VH	5200.0158	3.03	5200.0173	3.32	5200.0188	3.61	5200.0080	1.54
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)
50	VN	5200.0243	4.67	5200.0187	3.60	5199.9843	-3.03	5200.0139	2.67
40	VN	5199.9759	-4.64	5200.0076	1.46	5199.9828	-3.30	5199.9918	-1.59
30	VN	5200.0111	2.13	5200.0235	4.53	5199.9931	-1.32	5199.9934	-1.26
20	VN	5200.0178	3.43	5200.0075	1.44	5200.0090	1.73	5199.9951	-0.95
10	VN	5199.9842	-3.04	5200.0040	0.77	5199.9906	-1.82	5200.0239	4.59
0	VN	5200.0031	0.59	5199.9972	-0.53	5200.0162	3.11	5199.9969	-0.59
-10	VN	5200.0184	3.54	5199.9946	-1.03	5200.0000	0.00	5199.9773	-4.36

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 G: DUTY CYCLE**11.7.1. 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	2.02	2.05	0.9854	98.54	0.06	0.50	0.01
11N20SISO	1.88	1.92	0.9792	97.92	0.09	0.53	1
11N40SISO	0.92	0.95	0.9684	96.84	0.14	1.09	2
11AC80SISO	0.45	0.49	0.9184	91.84	0.37	2.22	3

Note:

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

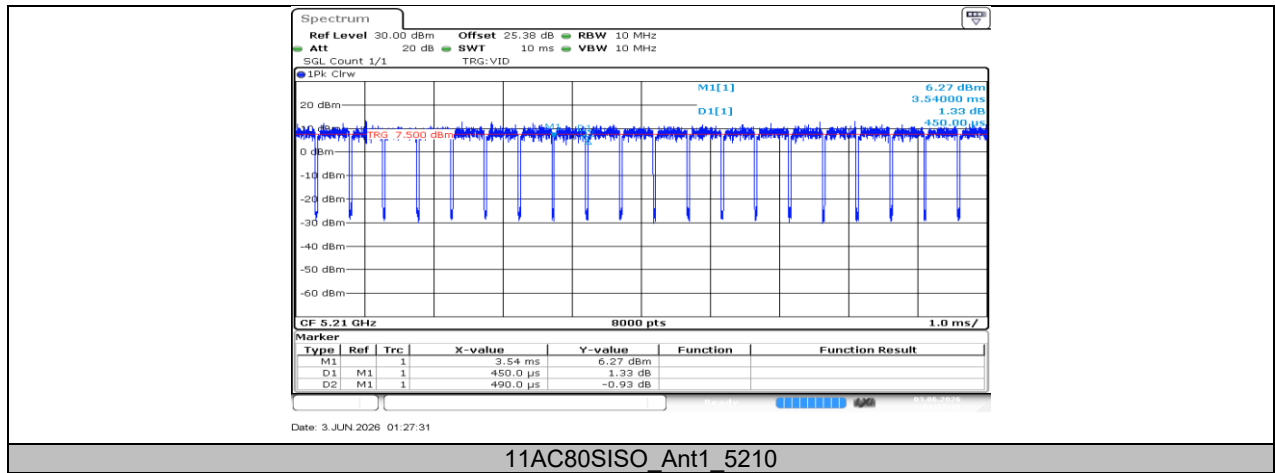
Where: x is Duty Cycle (Linear)

Where: T is On Time

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

11.7.2. Test Graphs

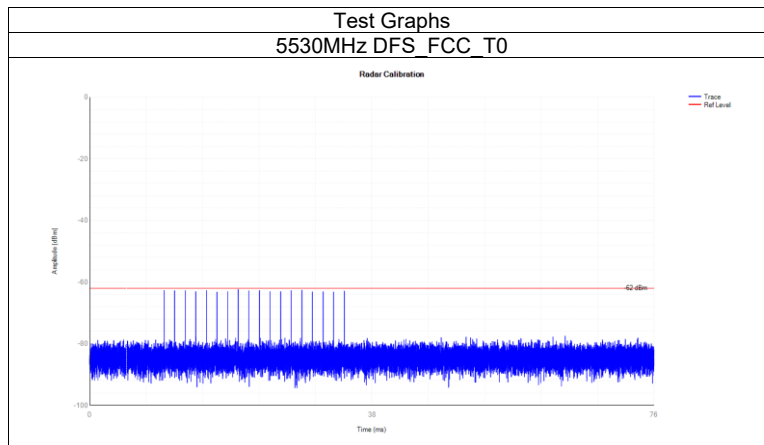




11.8. APPENDIX H: DYNAMIC FREQUENCY SELECTION (SLAVE)

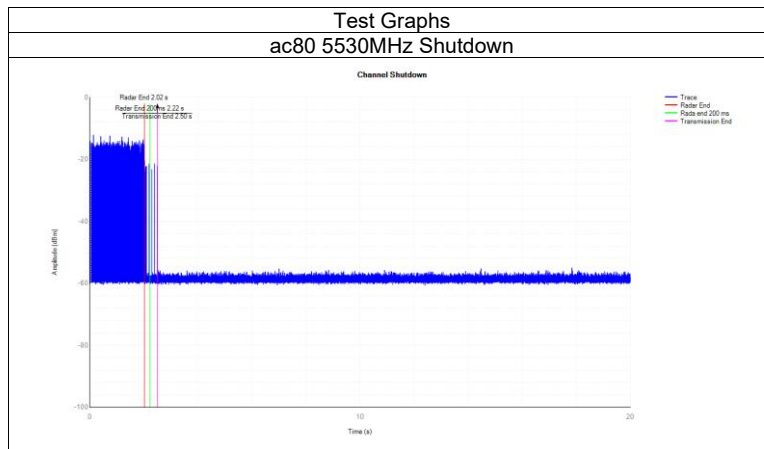
11.8.1. Calibration

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



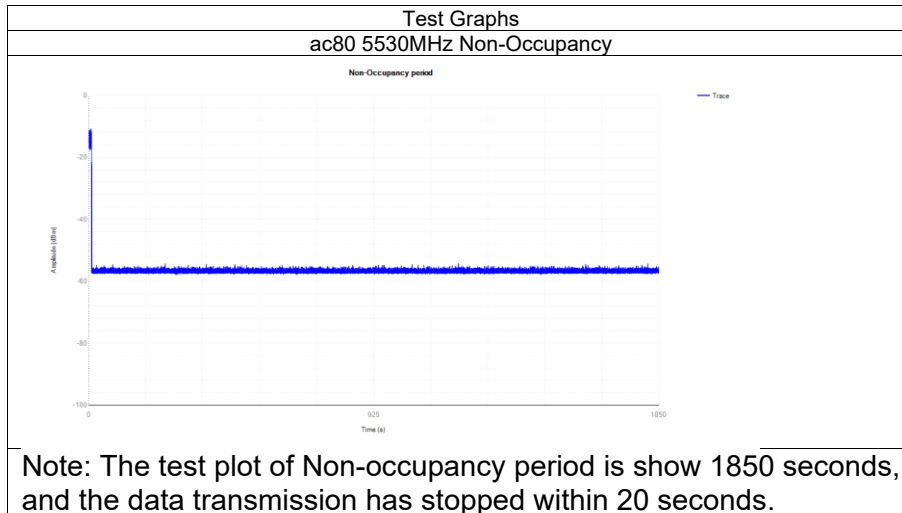
11.8.2. Shutdown Time

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	0.48	10	0.015	0.26	0.004	0.06	Pass



11.8.3. Non-Occupancy

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



END OF REPORT