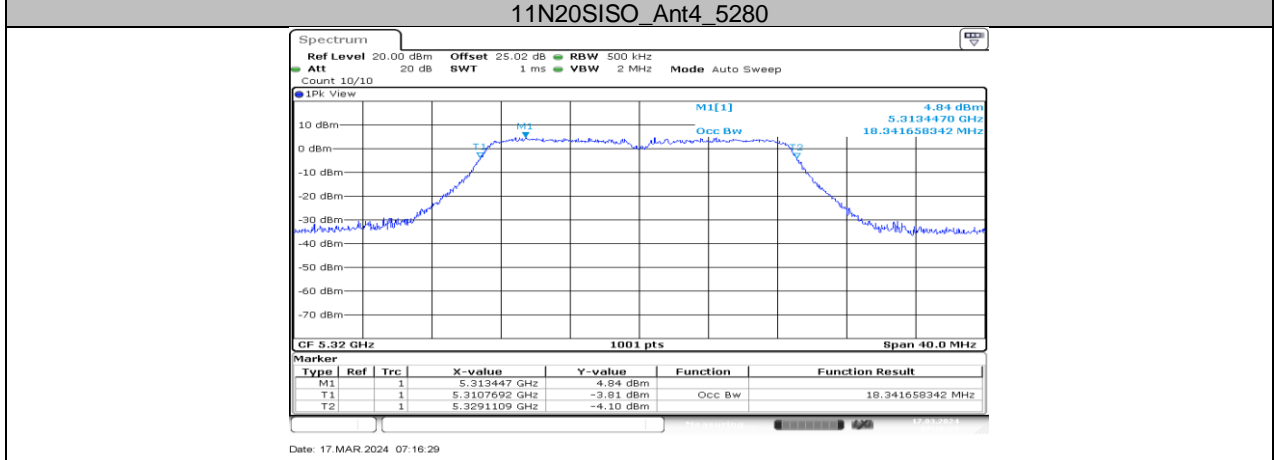
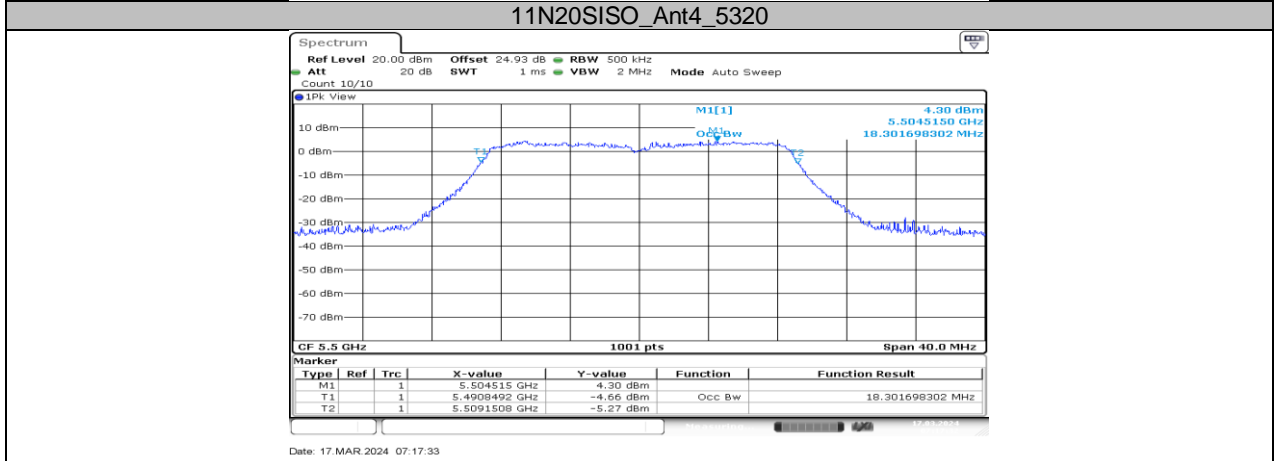


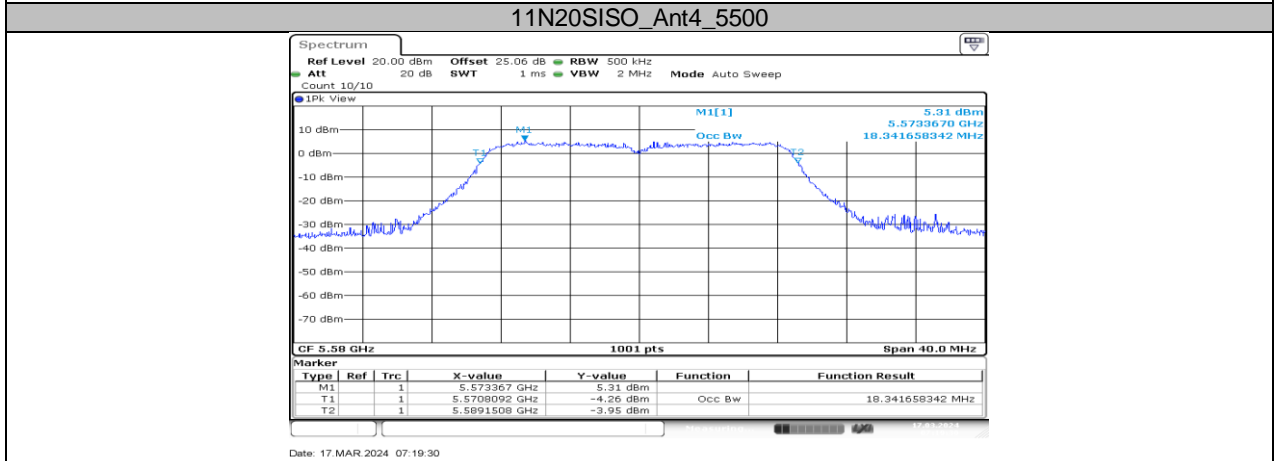
Date: 17.MAR 2024 07:14:39



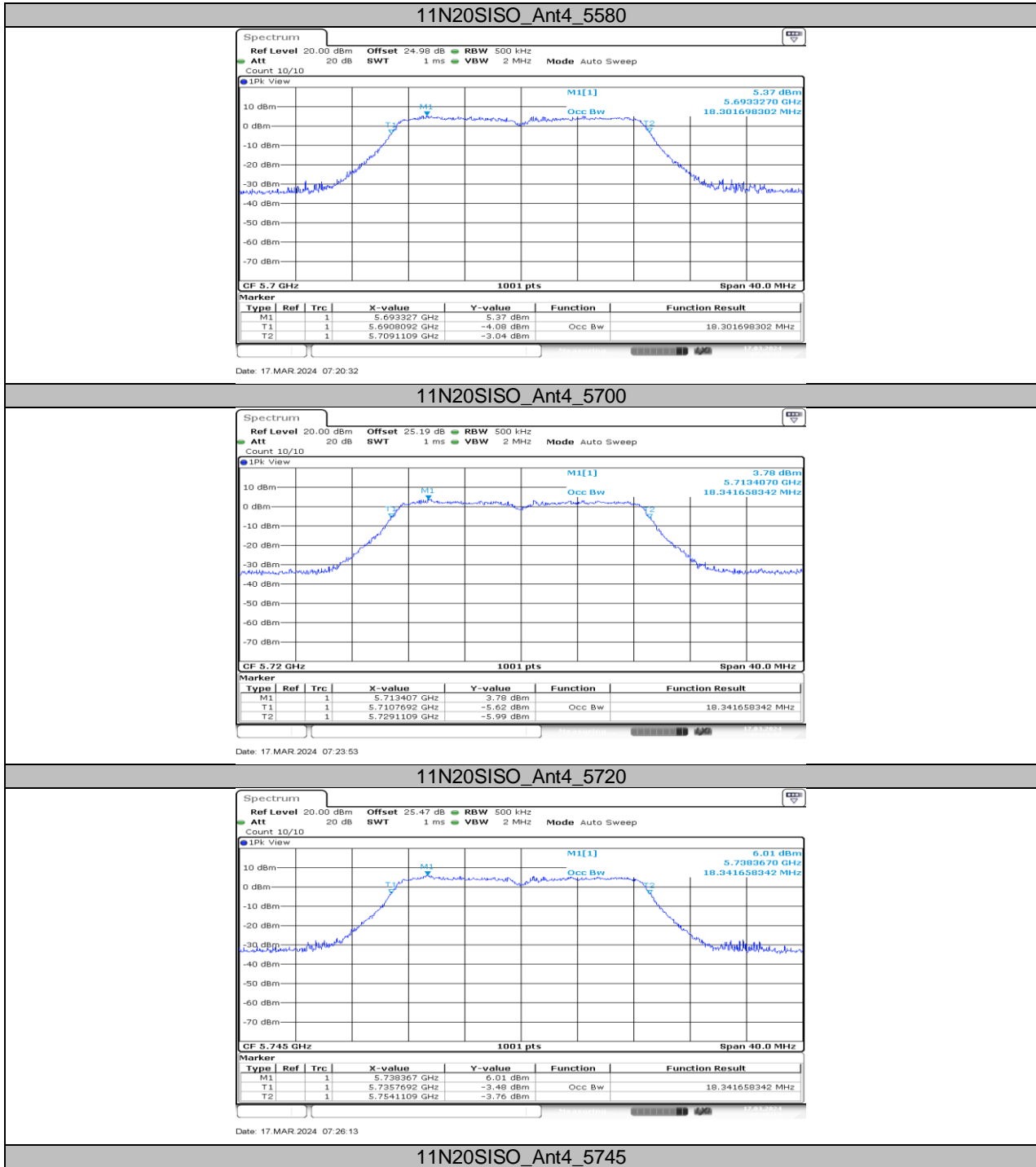
Date: 17.MAR 2024 07:16:29

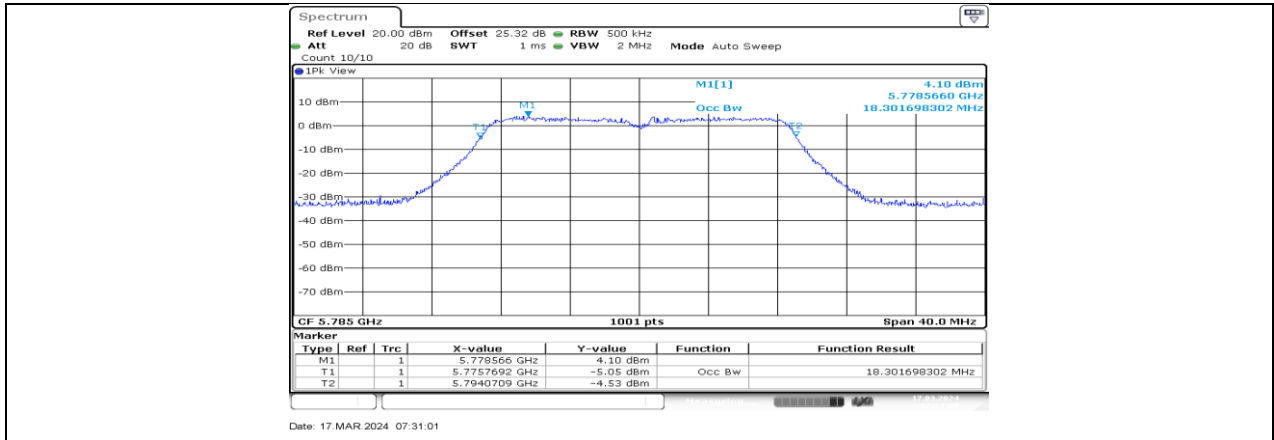


Date: 17.MAR 2024 07:17:33

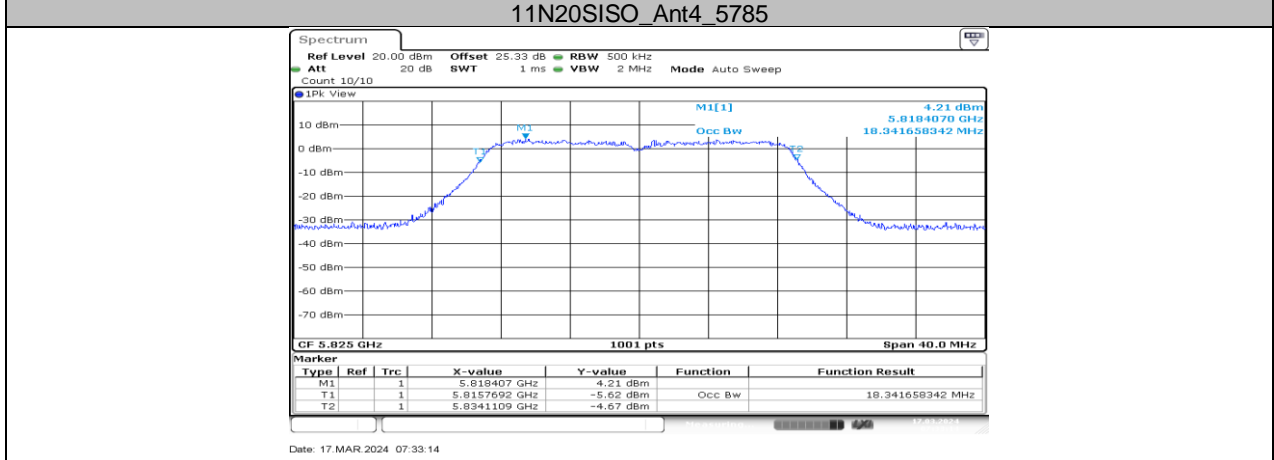


Date: 17.MAR 2024 07:19:30

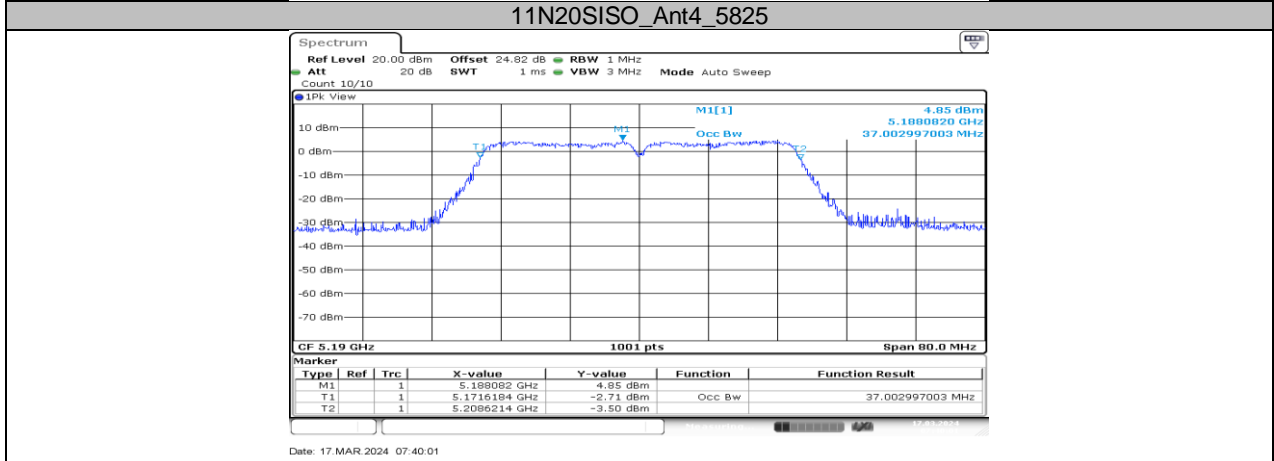




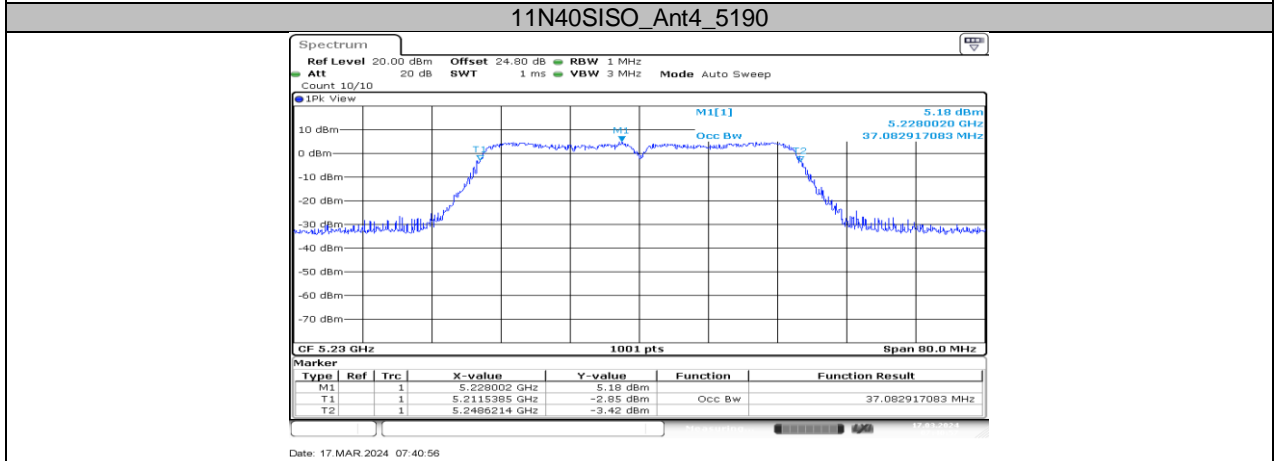
Date: 17.MAR.2024 07:31:01



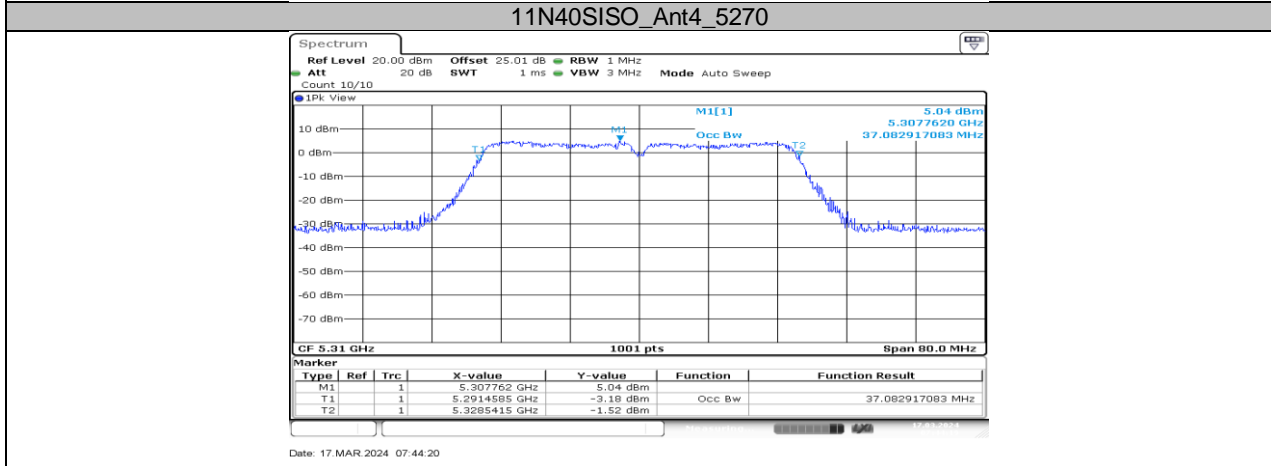
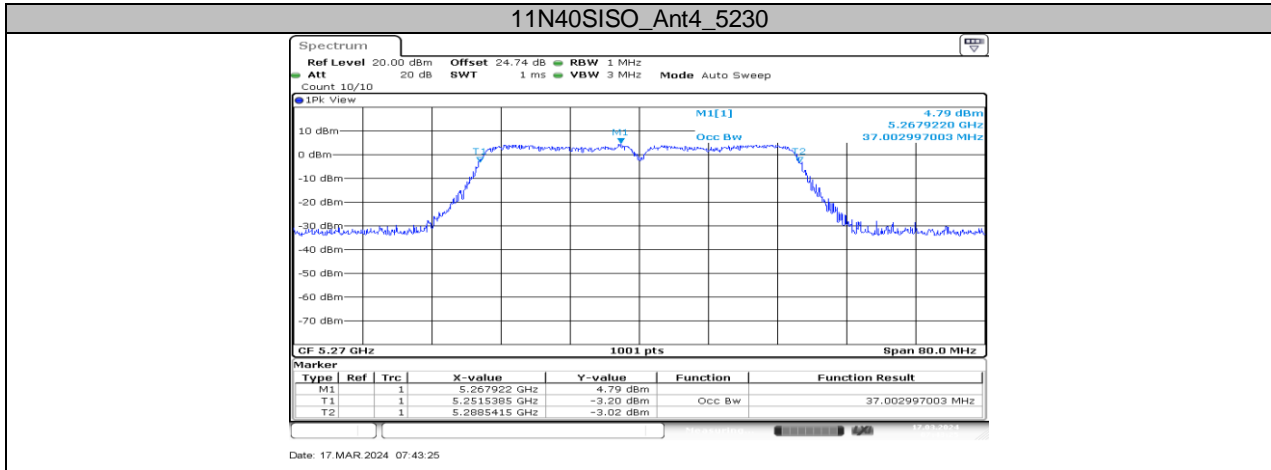
Date: 17.MAR.2024 07:33:14



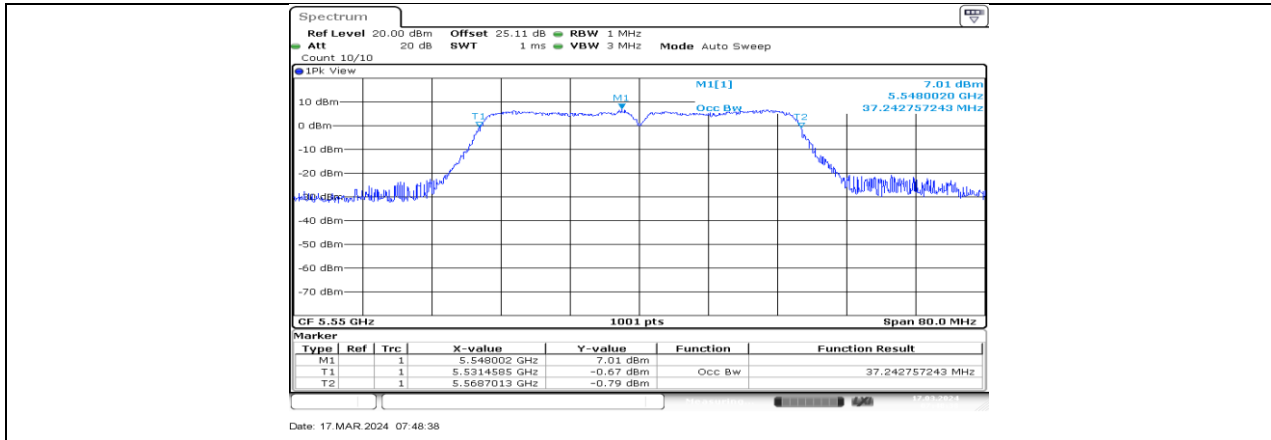
Date: 17.MAR.2024 07:40:01



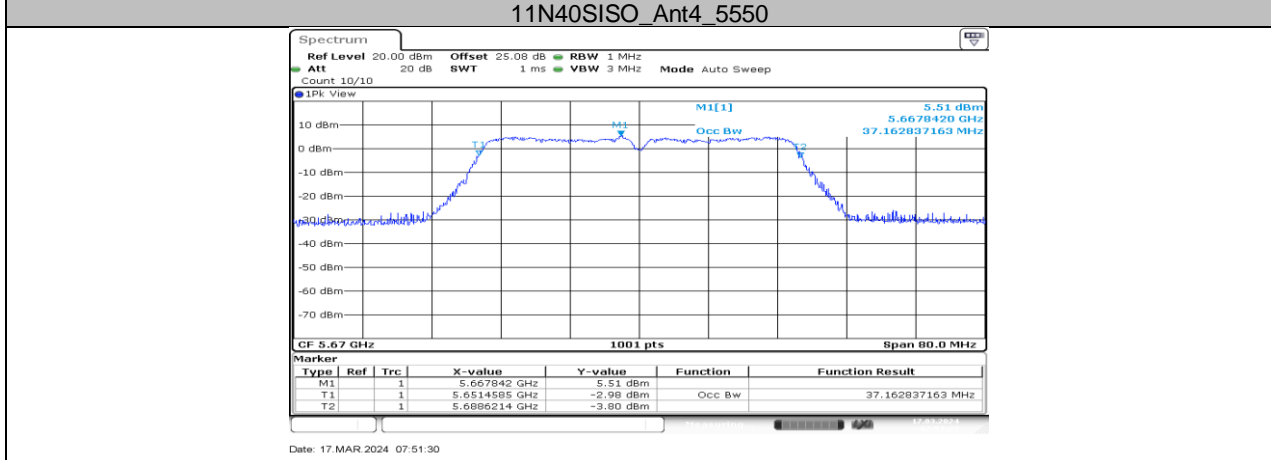
Date: 17.MAR.2024 07:40:58



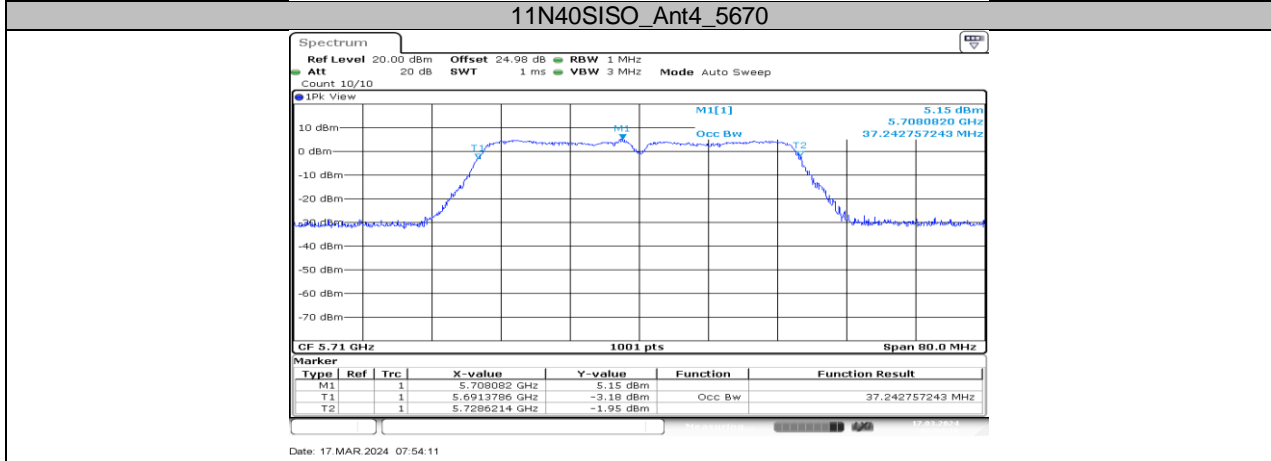
11N40SISO_Ant4_5510



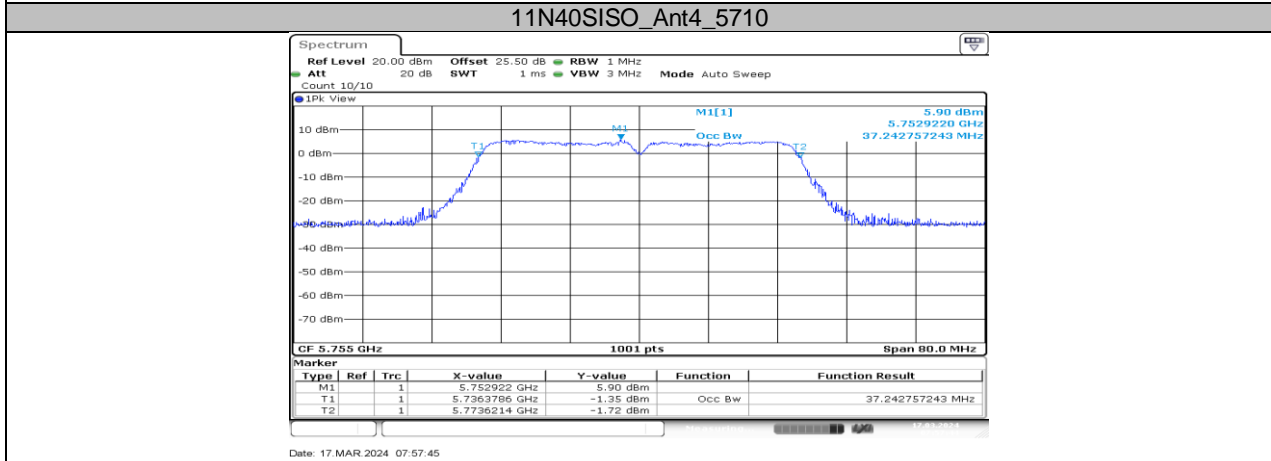
Date: 17.MAR 2024 07:48:38



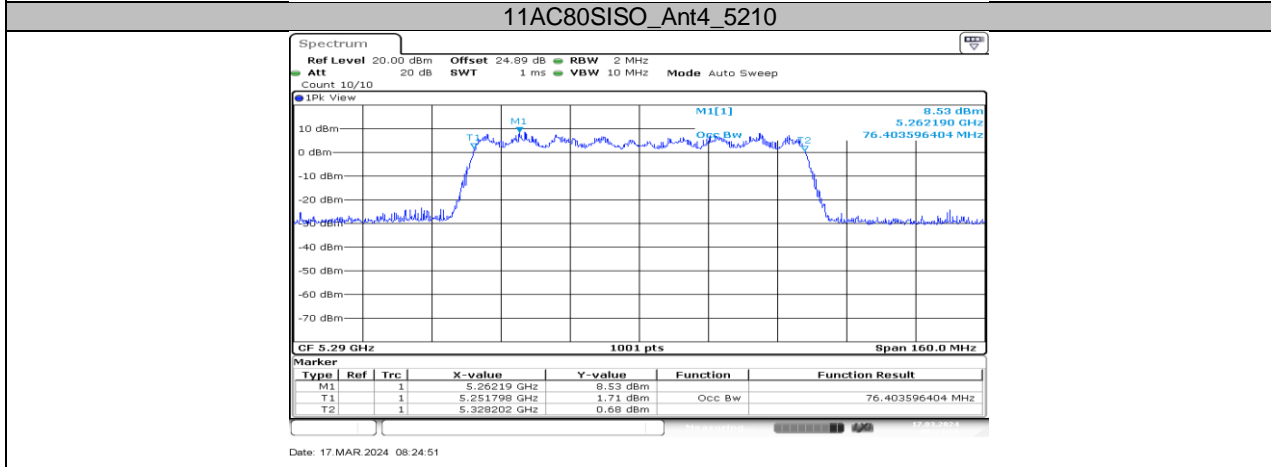
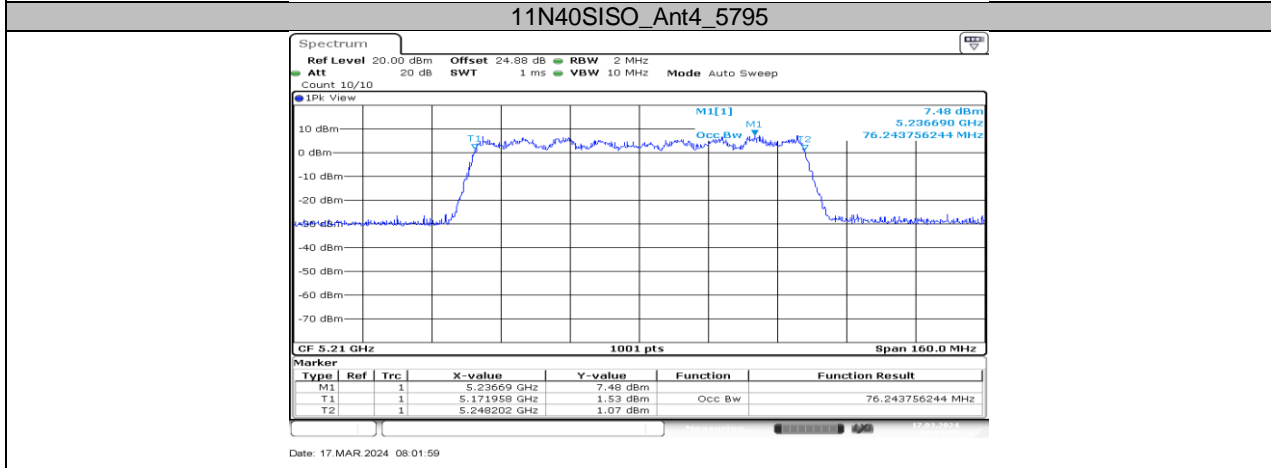
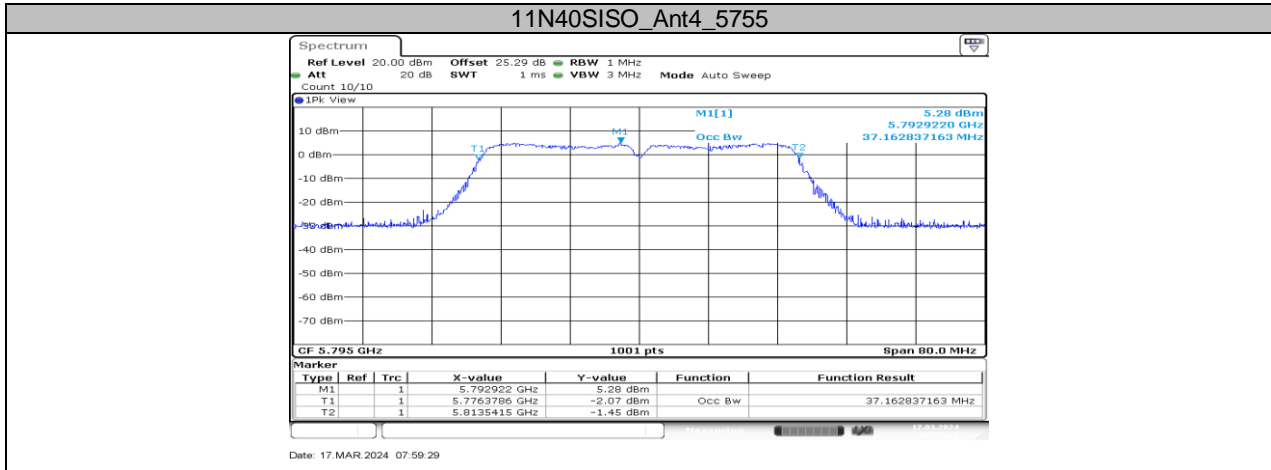
Date: 17.MAR 2024 07:51:30



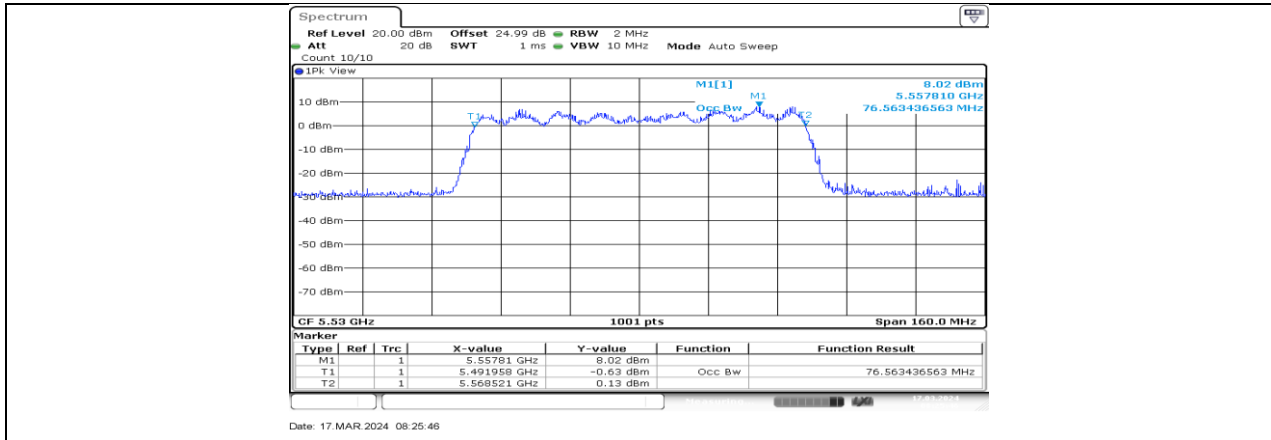
Date: 17.MAR 2024 07:54:11



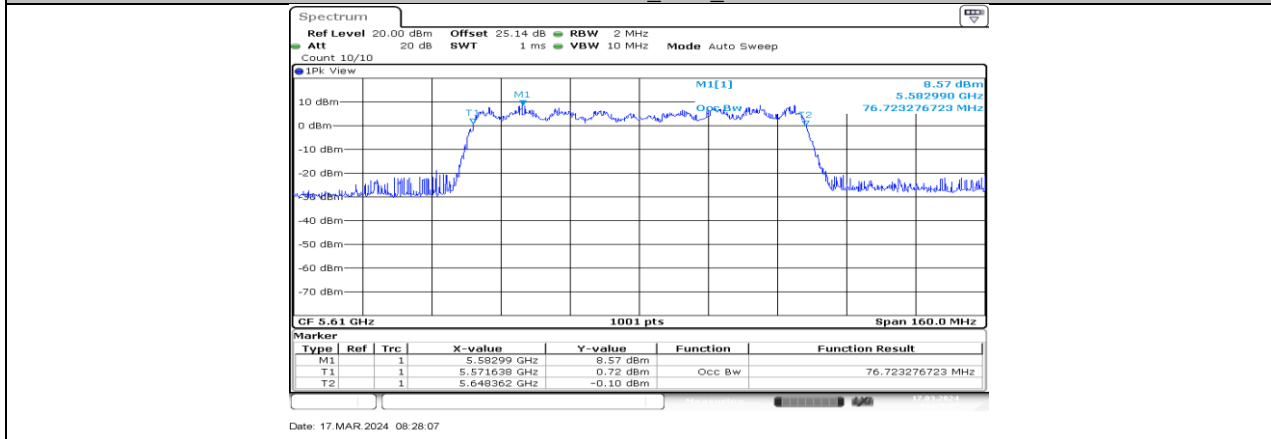
Date: 17.MAR 2024 07:57:45



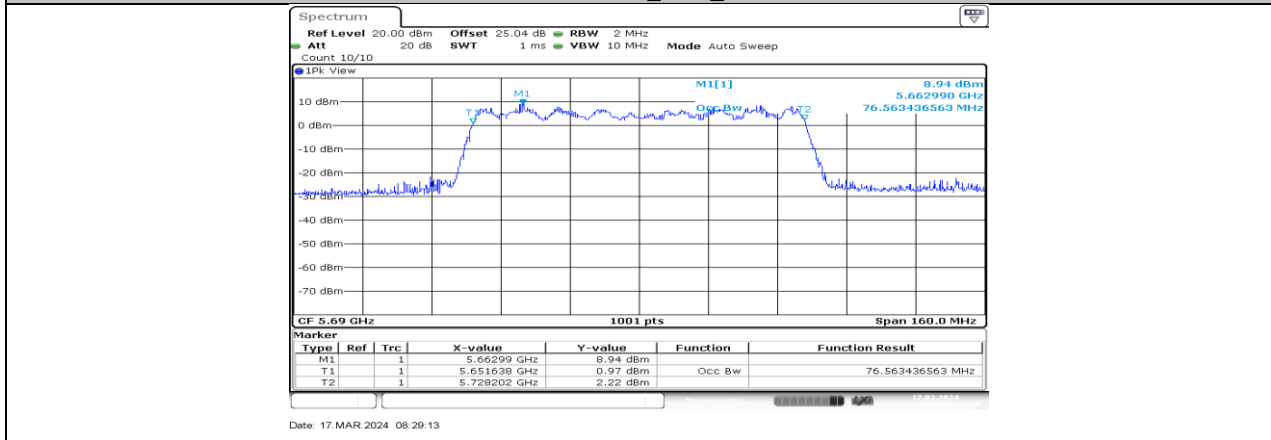
11AC80SISO_Ant4_5290



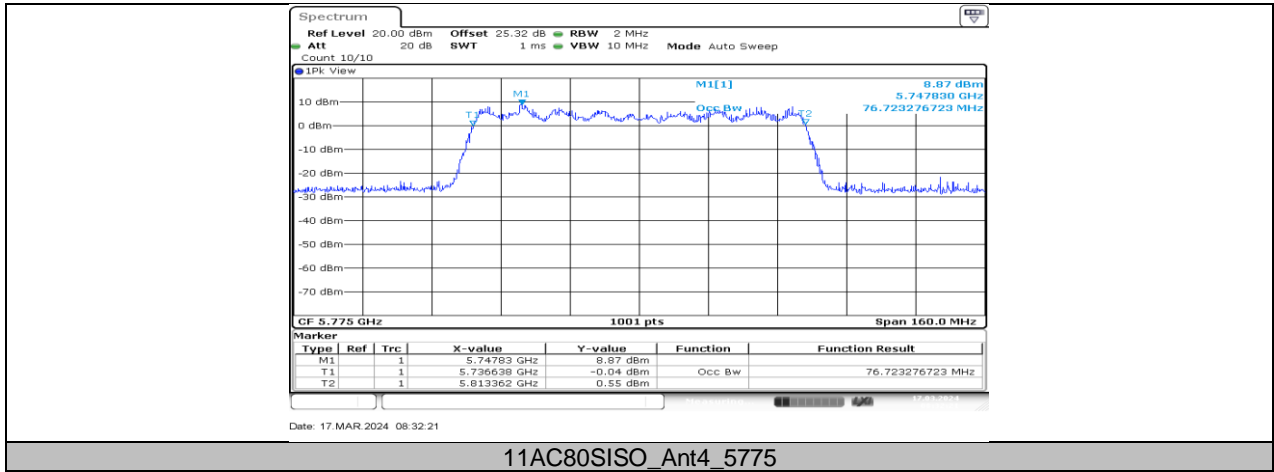
11AC80SISO_Ant4_5530



11AC80SISO_Ant4_5610



11AC80SISO_Ant4_5690

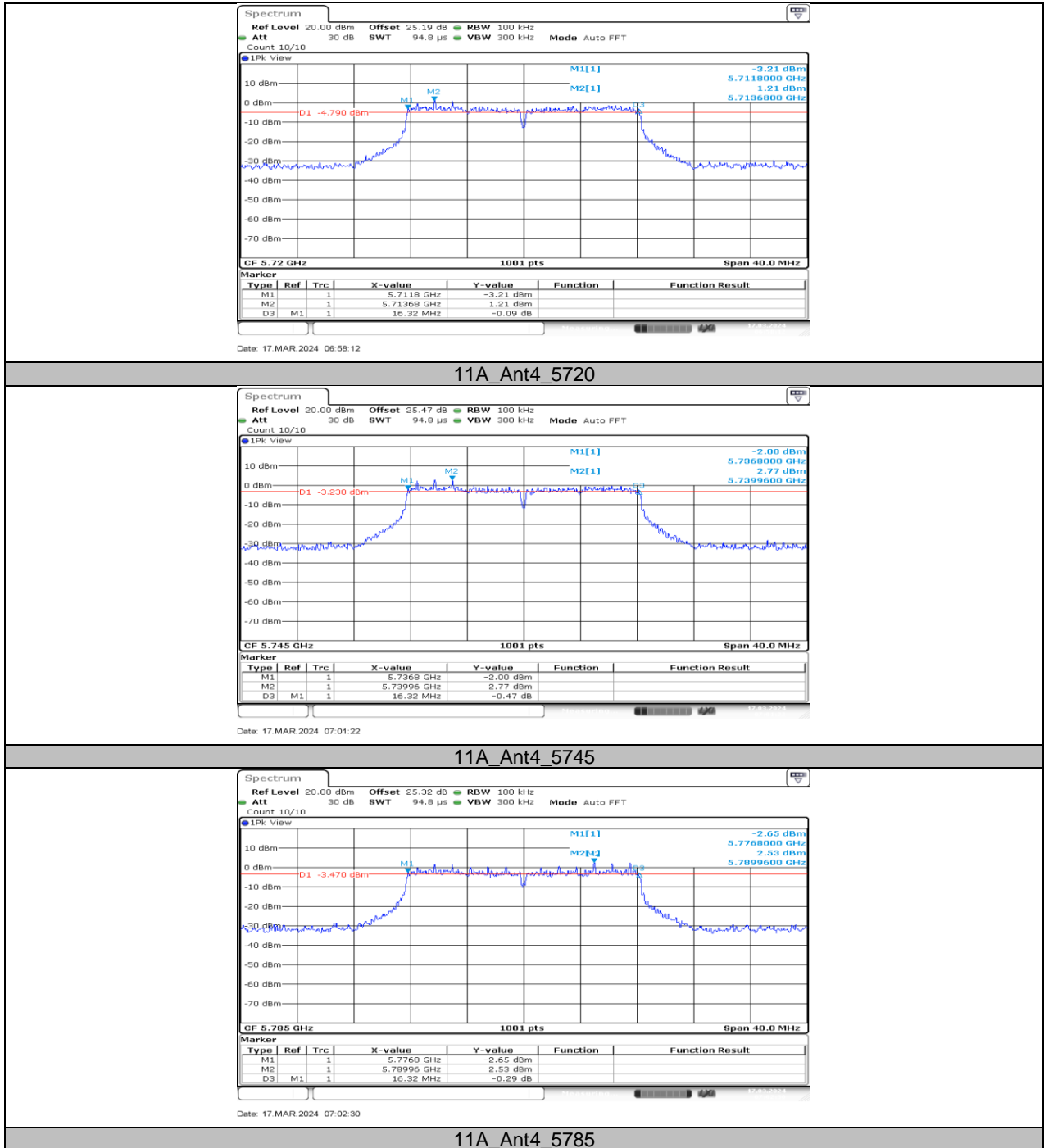


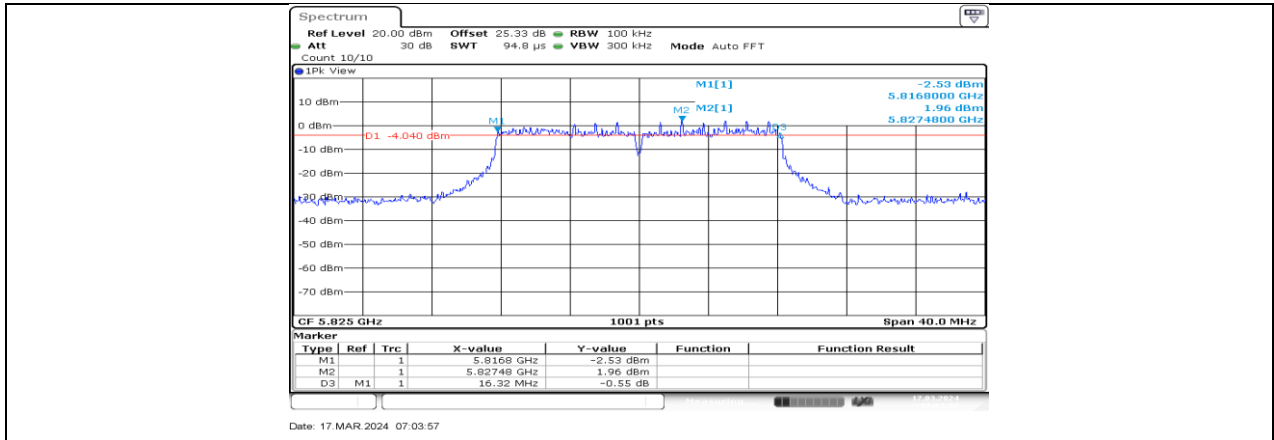
11.3. APPENDIX C: MIN EMISSION BANDWIDTH

11.3.1. Test Result

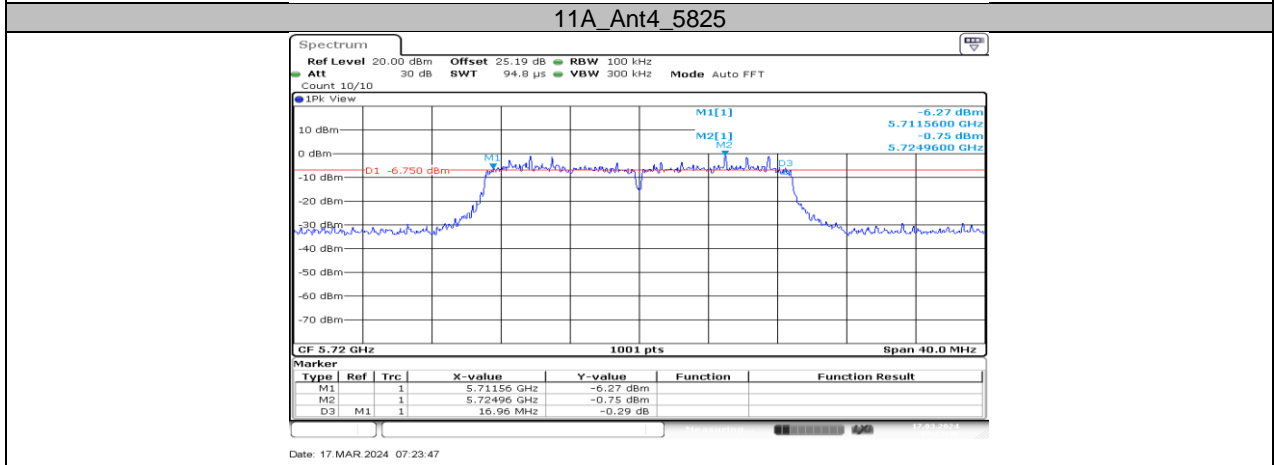
Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant4	5720	16.32	5711.80	5728.12	≥ 0.5	PASS
		5720_UNII-3	3.12	5725	5728.12	≥ 0.5	PASS
		5745	16.32	5736.80	5753.12	≥ 0.5	PASS
		5785	16.32	5776.80	5793.12	≥ 0.5	PASS
		5825	16.32	5816.80	5833.12	≥ 0.5	PASS
11N20SISO	Ant4	5720	16.96	5711.56	5728.52	≥ 0.5	PASS
		5720_UNII-3	3.52	5725	5728.52	≥ 0.5	PASS
		5745	17.32	5736.20	5753.52	≥ 0.5	PASS
		5785	16.92	5776.56	5793.48	≥ 0.5	PASS
		5825	16.92	5816.56	5833.48	≥ 0.5	PASS
11N40SISO	Ant4	5710	35.44	5692.16	5727.60	≥ 0.5	PASS
		5710_UNII-3	2.6	5725	5727.60	≥ 0.5	PASS
		5755	35.52	5737.08	5772.60	≥ 0.5	PASS
		5795	35.68	5777.24	5812.92	≥ 0.5	PASS
11AC80SISO	Ant4	5690	75.04	5652.56	5727.60	≥ 0.5	PASS
		5690_UNII-3	2.6	5725	5727.60	≥ 0.5	PASS
		5775	75.84	5736.76	5812.60	≥ 0.5	PASS

11.3.2. Test Graphs

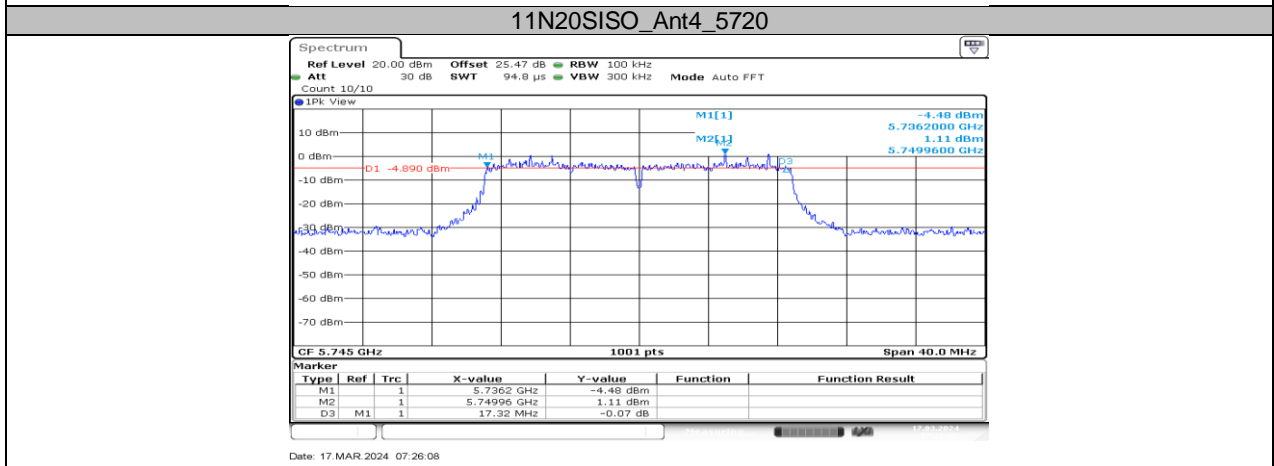




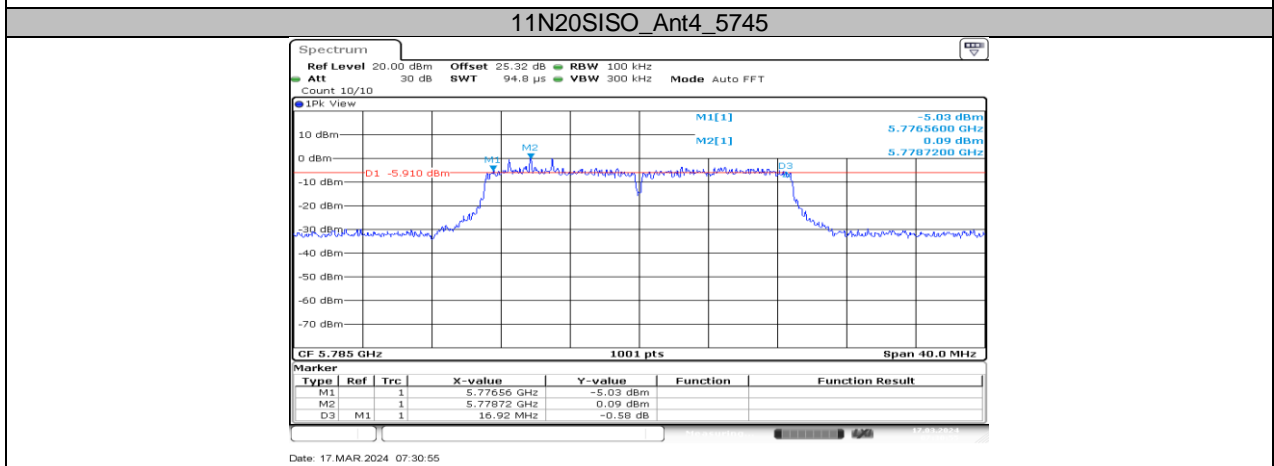
Date: 17.MAR 2024 07:03:57



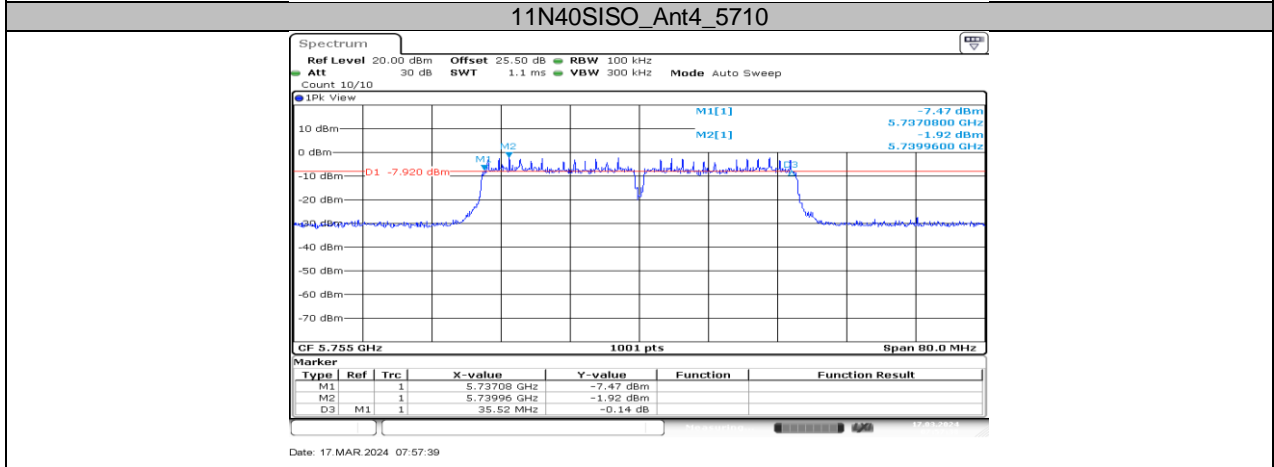
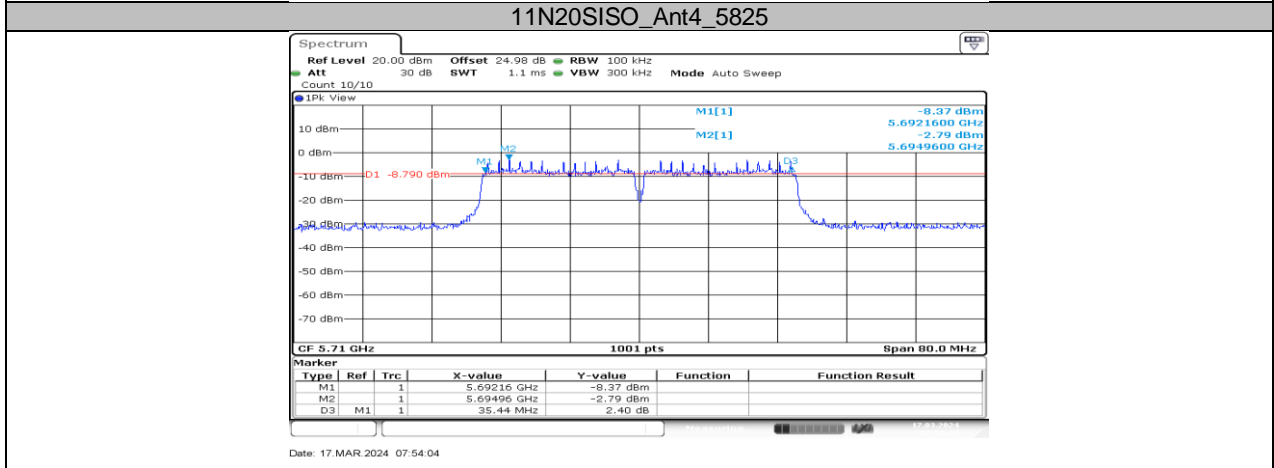
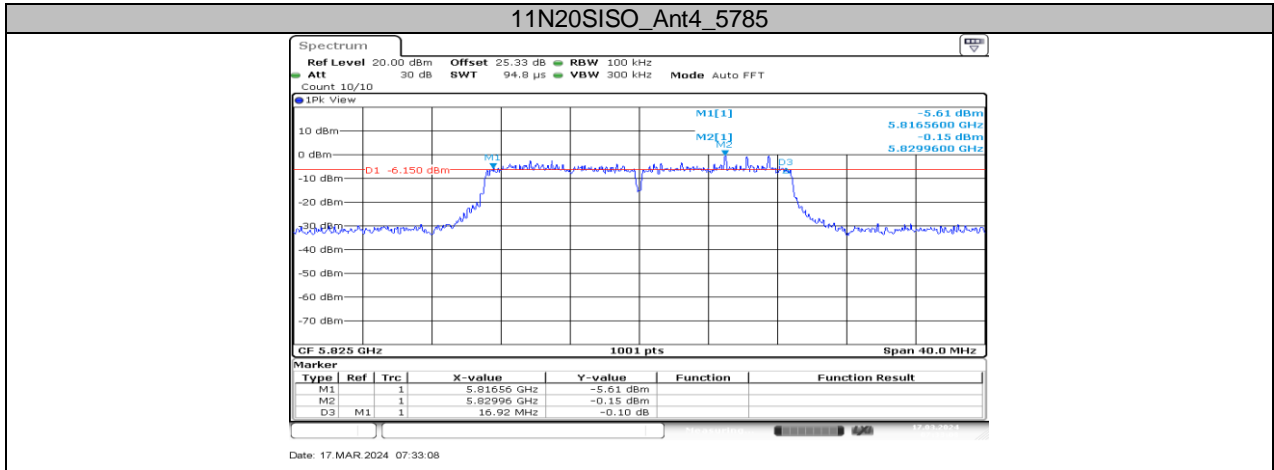
Date: 17.MAR 2024 07:23:47



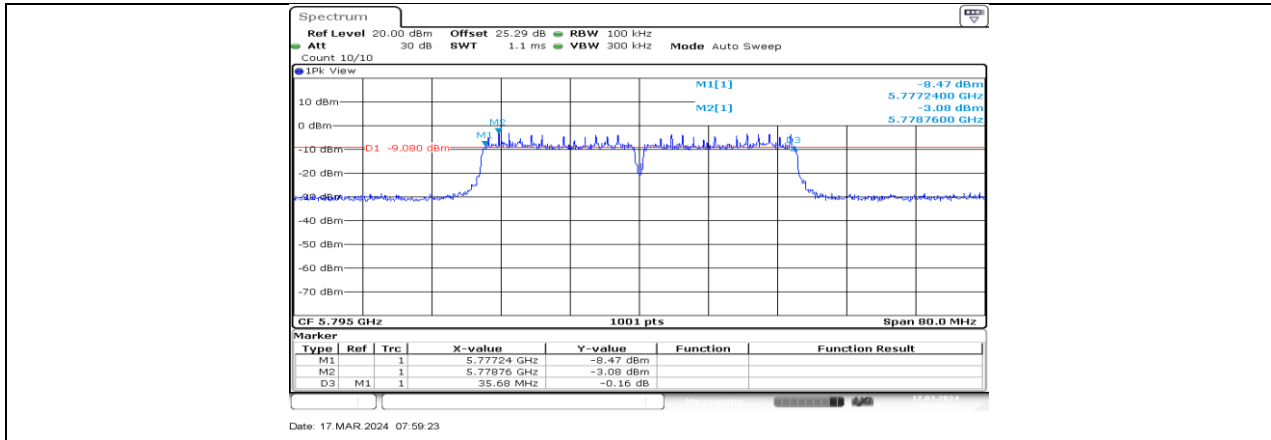
Date: 17.MAR 2024 07:26:08



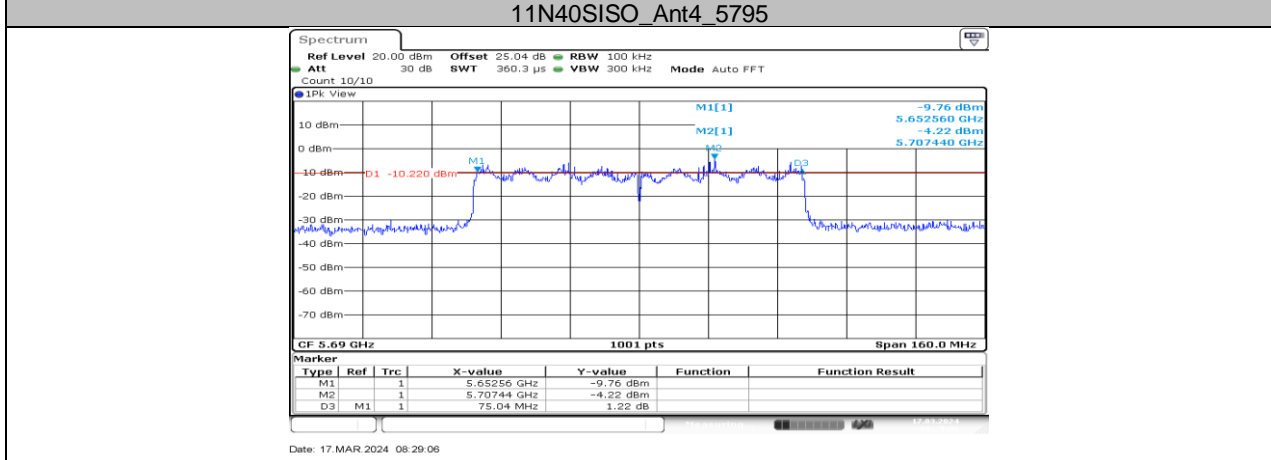
Date: 17.MAR 2024 07:30:55



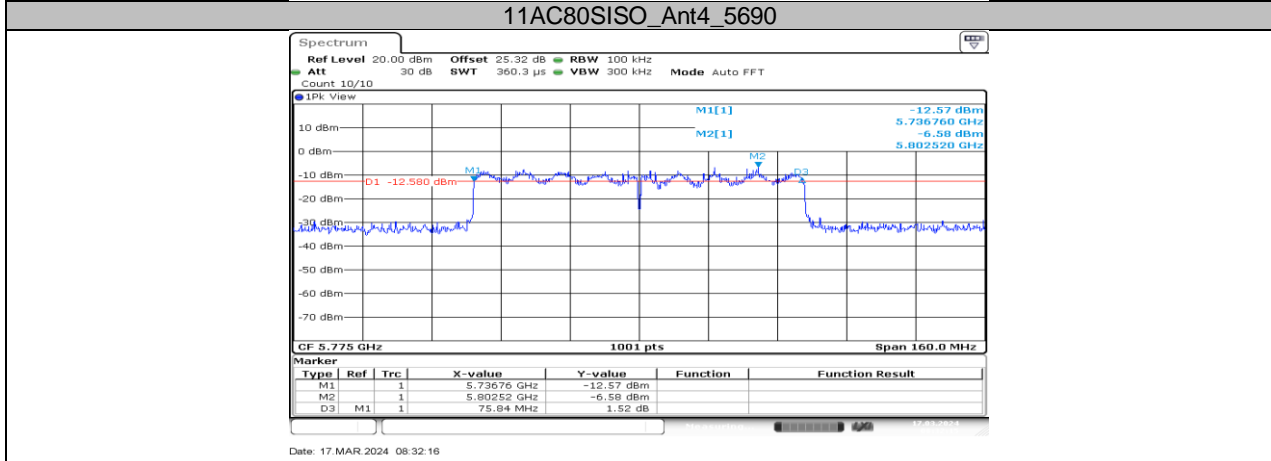
11N40SISO_Ant4_5755



Date: 17.MAR.2024 07:59:23



Date: 17.MAR.2024 08:29:06



Date: 17.MAR.2024 08:32:16

11AC80SISO_Ant4_5775

11.4. APPENDIX D: MAXIMUM CONDUCTED OUTPUT POWER

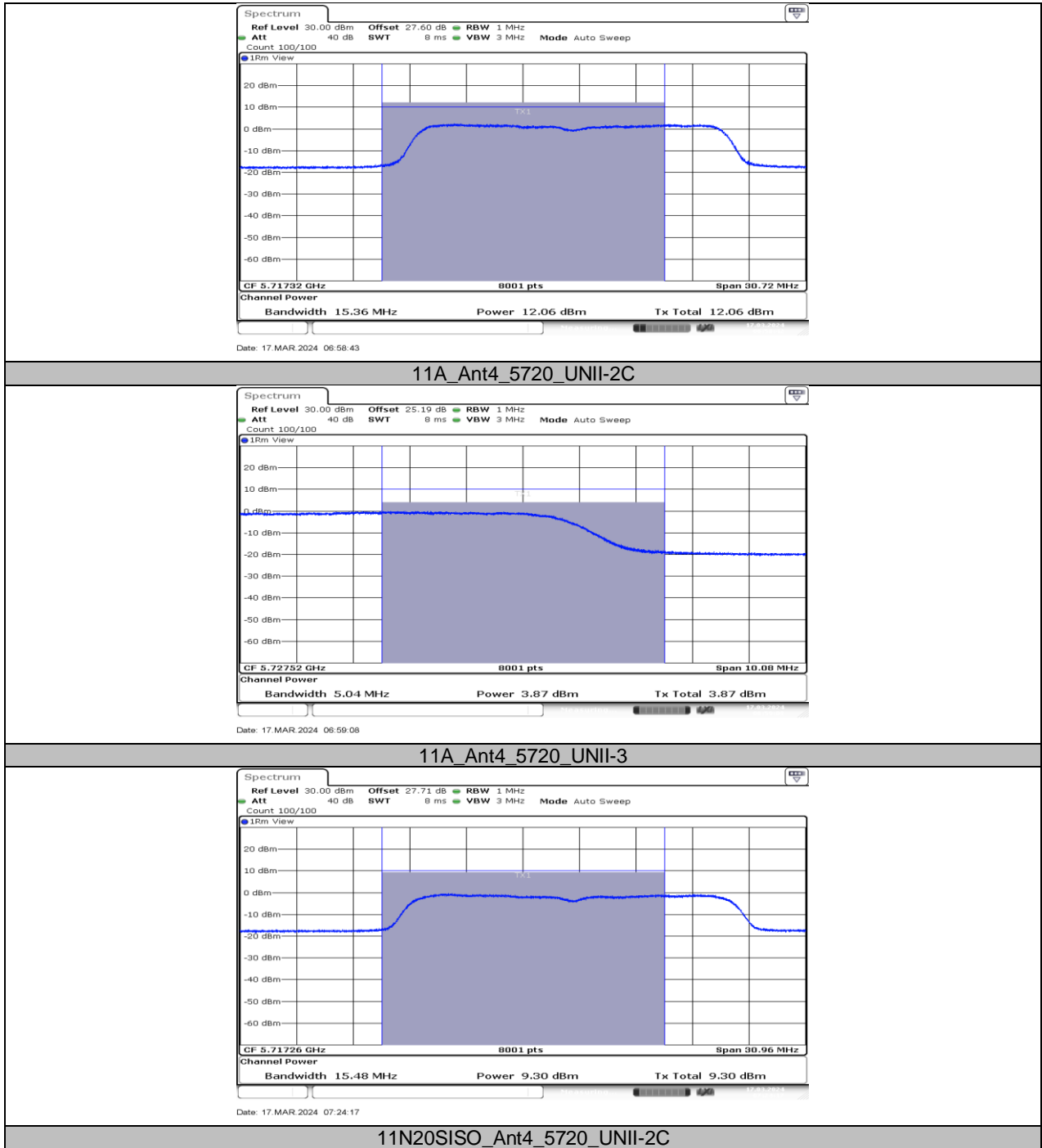
11.4.1. Test Result

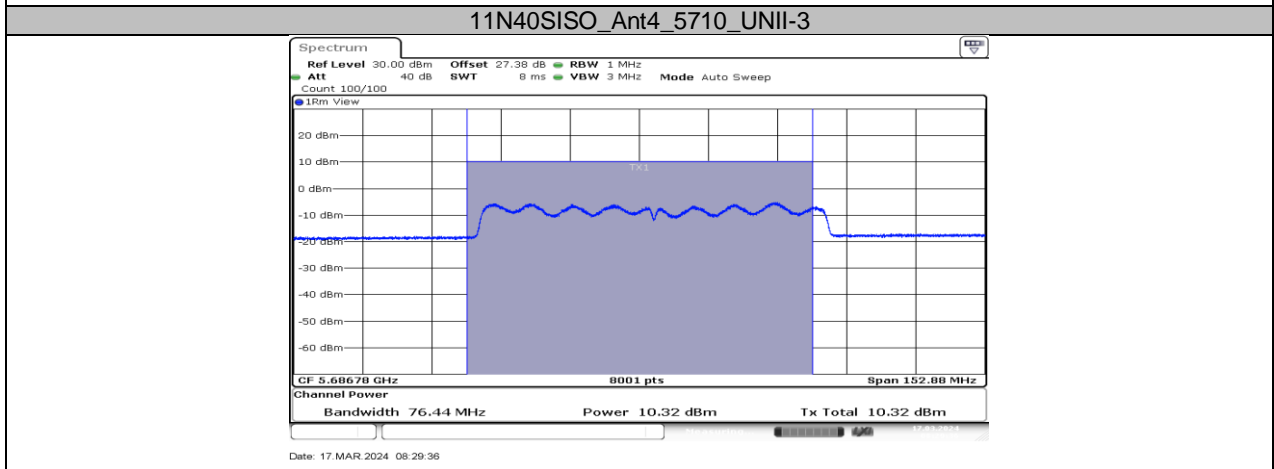
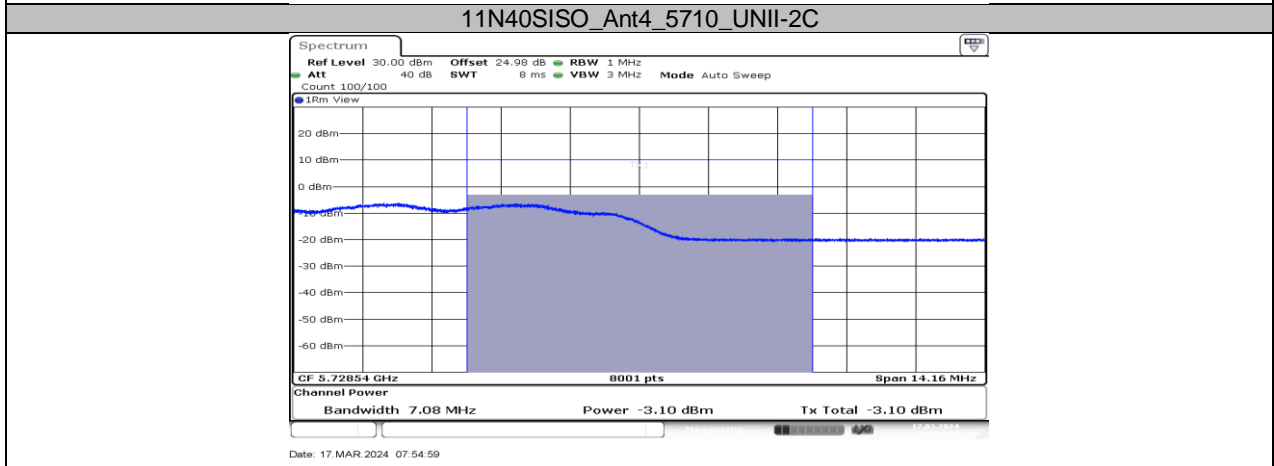
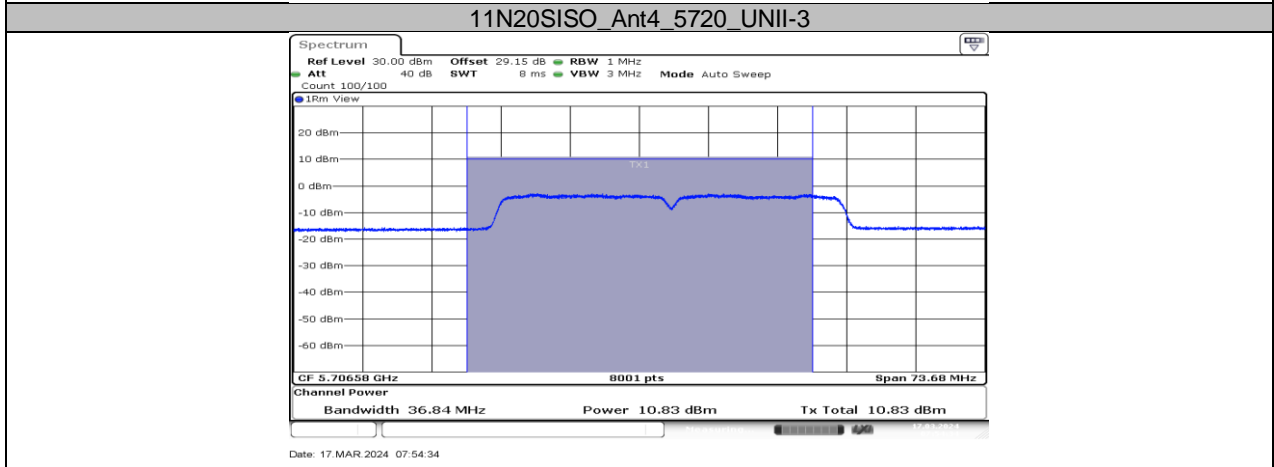
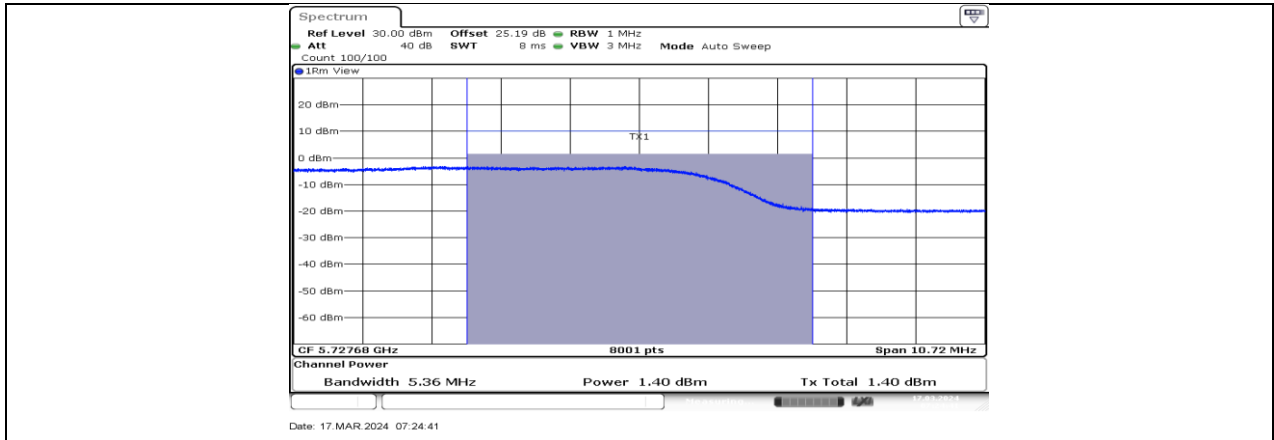
Test Mode	Antenna	Frequency[MHz]	Power [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant4	5180	15.53	≤23.98	---	17.79	≤22.40	PASS
		5200	15.76	≤23.98	---	18.02	≤22.42	PASS
		5240	15.38	≤23.98	---	17.64	≤22.40	PASS
		5260	15.41	≤23.98	≤23.40	17.67	≤29.40	PASS
		5280	15.21	≤23.98	≤23.40	17.47	≤29.40	PASS
		5320	14.84	≤23.98	≤23.40	17.10	≤29.40	PASS
		5500	14.69	≤23.98	≤23.40	16.95	≤29.40	PASS
		5580	15.33	≤23.98	≤23.42	17.59	≤29.42	PASS
		5700	15.41	≤23.98	≤23.40	17.67	≤29.40	PASS
		5720_UNII-2C	12.06	≤22.86	≤22.36	14.32	≤28.36	PASS
		5720_UNII-3	3.87	≤30.00	≤30.00	6.13	---	PASS
		5745	15.71	≤30.00	≤30.00	17.97	---	PASS
		5785	15.40	≤30.00	≤30.00	17.66	---	PASS
5825	15.21	≤30.00	≤30.00	17.47	---	PASS		
11N20SISO	Ant4	5180	13.17	≤23.98	---	15.43	≤22.65	PASS
		5200	12.74	≤23.98	---	15.00	≤22.63	PASS
		5240	12.66	≤23.98	---	14.92	≤22.63	PASS
		5260	12.10	≤23.98	≤23.63	14.36	≤29.63	PASS
		5280	12.81	≤23.98	≤23.62	15.07	≤29.62	PASS
		5320	13.16	≤23.98	≤23.63	15.42	≤29.63	PASS
		5500	12.31	≤23.98	≤23.62	14.57	≤29.62	PASS
		5580	13.03	≤23.98	≤23.63	15.29	≤29.63	PASS
		5700	13.08	≤23.98	≤23.62	15.34	≤29.62	PASS
		5720_UNII-2C	9.30	≤22.90	≤22.53	11.56	≤28.53	PASS
		5720_UNII-3	1.40	≤30.00	≤30.00	3.66	---	PASS
		5745	13.07	≤30.00	≤30.00	15.33	---	PASS
		5785	12.28	≤30.00	≤30.00	14.54	---	PASS
5825	12.75	≤30.00	≤30.00	15.01	---	PASS		
11N40SISO	Ant4	5190	12.01	≤23.98	---	14.27	≤23.00	PASS
		5230	12.43	≤23.98	---	14.69	≤23.00	PASS
		5270	12.13	≤23.98	≤23.98	14.39	≤30.00	PASS
		5310	12.40	≤23.98	≤23.98	14.66	≤30.00	PASS
		5510	12.77	≤23.98	≤23.98	15.03	≤30.00	PASS
		5550	12.76	≤23.98	≤23.98	15.02	≤30.00	PASS
		5670	12.86	≤23.98	≤23.98	15.12	≤30.00	PASS
		5710_UNII-2C	10.83	≤23.98	≤23.98	13.09	≤30.00	PASS
		5710_UNII-3	-3.10	≤30.00	≤30.00	-0.84	---	PASS
		5755	13.06	≤30.00	≤30.00	15.32	---	PASS
5795	12.81	≤30.00	≤30.00	15.07	---	PASS		
11AC80SISO	Ant4	5210	12.13	≤23.98	≤20.75	14.39	≤23.00	PASS
		5290	11.14	≤23.98	≤23.98	13.40	≤30.00	PASS
		5530	11.03	≤23.98	≤23.98	13.29	≤30.00	PASS
		5610	11.22	≤23.98	≤23.98	13.48	≤30.00	PASS
		5690_UNII-2C	10.32	≤23.98	≤23.98	12.58	≤30.00	PASS
		5690_UNII-3	-4.51	≤30.00	≤30.00	-2.25	---	PASS
		5775	11.59	≤30.00	≤30.00	13.85	---	PASS

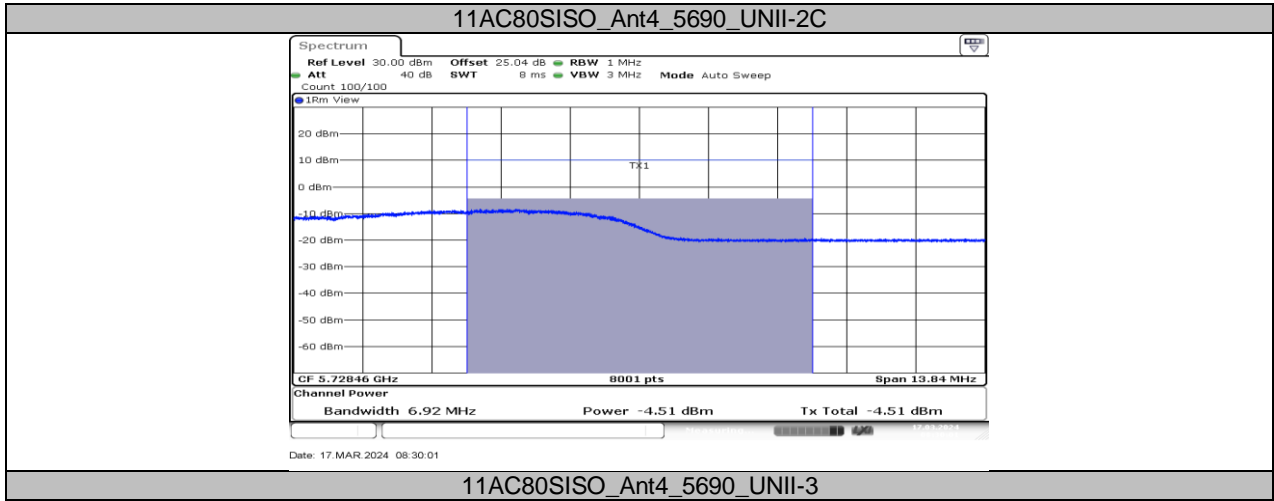
Note: 1. Conducted Power=Meas. Level+ Correction Factor

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

11.4.2. Test Graphs







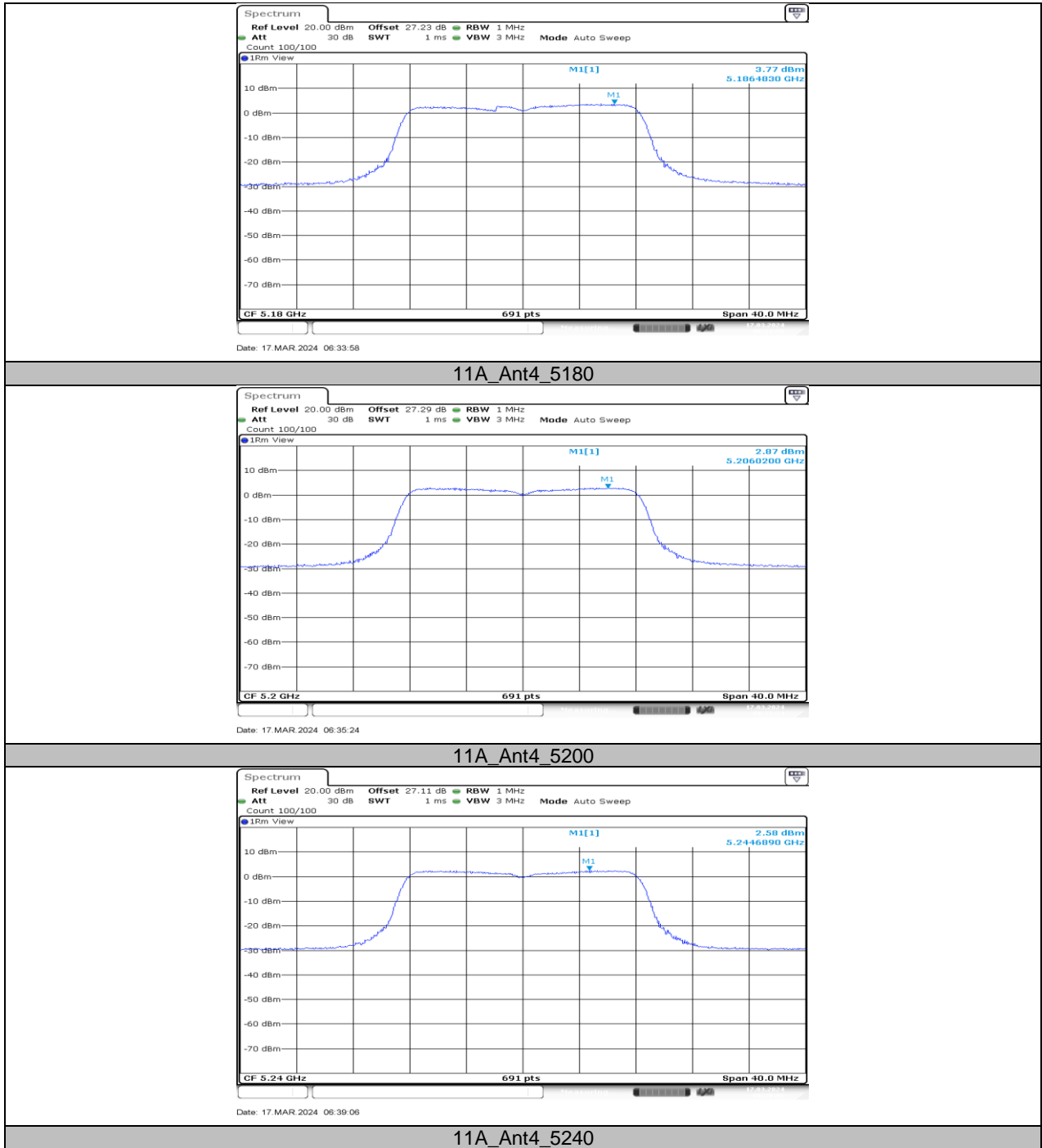
11.5. APPENDIX E: MAXIMUM POWER SPECTRAL DENSITY

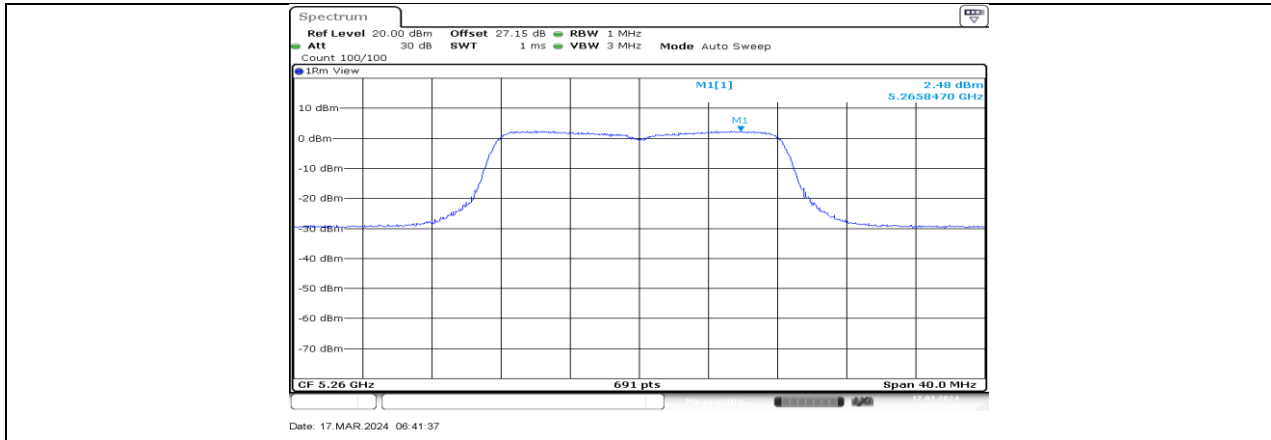
11.5.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Power [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant4	5180	3.77	≤11.00	6.03	≤10.00	PASS
		5200	2.87	≤11.00	5.13	≤10.00	PASS
		5240	2.58	≤11.00	4.84	≤10.00	PASS
		5260	2.48	≤11.00	4.74	---	PASS
		5280	2.65	≤11.00	4.91	---	PASS
		5320	2.07	≤11.00	4.33	---	PASS
		5500	1.90	≤11.00	4.16	---	PASS
		5580	2.38	≤11.00	4.64	---	PASS
		5700	2.62	≤11.00	4.88	---	PASS
		5720_UNII-2C	1.99	≤11.00	4.25	---	PASS
		5720_UNII-3	-1.26	≤30.00	1.00	---	PASS
		5745	0.44	≤30.00	2.70	---	PASS
		5785	-0.56	≤30.00	1.70	---	PASS
5825	-0.45	≤30.00	1.81	---	PASS		
11N20SISO	Ant4	5180	0.19	≤11.00	2.45	≤10.00	PASS
		5200	0.14	≤11.00	2.40	≤10.00	PASS
		5240	-0.37	≤11.00	1.89	≤10.00	PASS
		5260	-0.38	≤11.00	1.88	---	PASS
		5280	-0.08	≤11.00	2.18	---	PASS
		5320	0.28	≤11.00	2.54	---	PASS
		5500	0.10	≤11.00	2.36	---	PASS
		5580	0.74	≤11.00	3.00	---	PASS
		5700	-0.17	≤11.00	2.09	---	PASS
		5720_UNII-2C	-1.00	≤11.00	1.26	---	PASS
		5720_UNII-3	-3.72	≤30.00	-1.46	---	PASS
		5745	-2.43	≤30.00	-0.17	---	PASS
		5785	-3.30	≤30.00	-1.04	---	PASS
5825	-3.23	≤30.00	-0.97	---	PASS		
11N40SISO	Ant4	5190	-4.04	≤11.00	-1.78	≤10.00	PASS
		5230	-3.61	≤11.00	-1.35	≤10.00	PASS
		5270	-3.99	≤11.00	-1.73	---	PASS
		5310	-3.66	≤11.00	-1.40	---	PASS
		5510	-2.85	≤11.00	-0.59	---	PASS
		5550	-3.66	≤11.00	-1.40	---	PASS
		5670	-3.33	≤11.00	-1.07	---	PASS
		5710_UNII-2C	-3.61	≤11.00	-1.35	---	PASS
		5710_UNII-3	-7.47	≤30.00	-5.21	---	PASS
		5755	-6.32	≤30.00	-4.06	---	PASS
5795	-7.07	≤30.00	-4.81	---	PASS		
11AC80SISO	Ant4	5210	-5.09	≤11.00	-2.83	≤10.00	PASS
		5290	-6.60	≤11.00	-4.34	---	PASS
		5530	-5.74	≤11.00	-3.48	---	PASS
		5610	-6.21	≤11.00	-3.95	---	PASS
		5690_UNII-2C	-6.29	≤11.00	-4.03	---	PASS
		5690_UNII-3	-9.77	≤30.00	-7.51	---	PASS
		5775	-8.74	≤30.00	-6.48	---	PASS

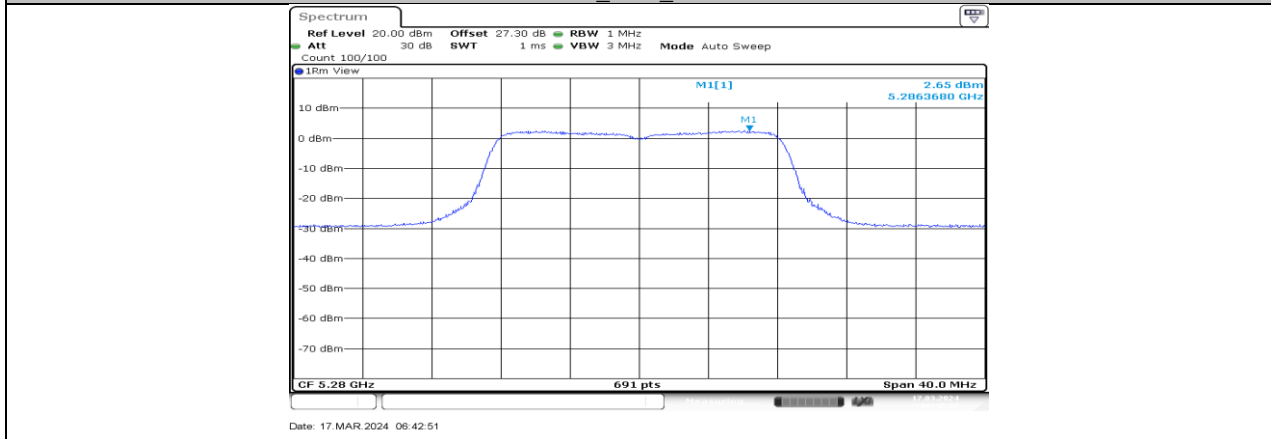
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
 2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

11.5.2. Test Graphs

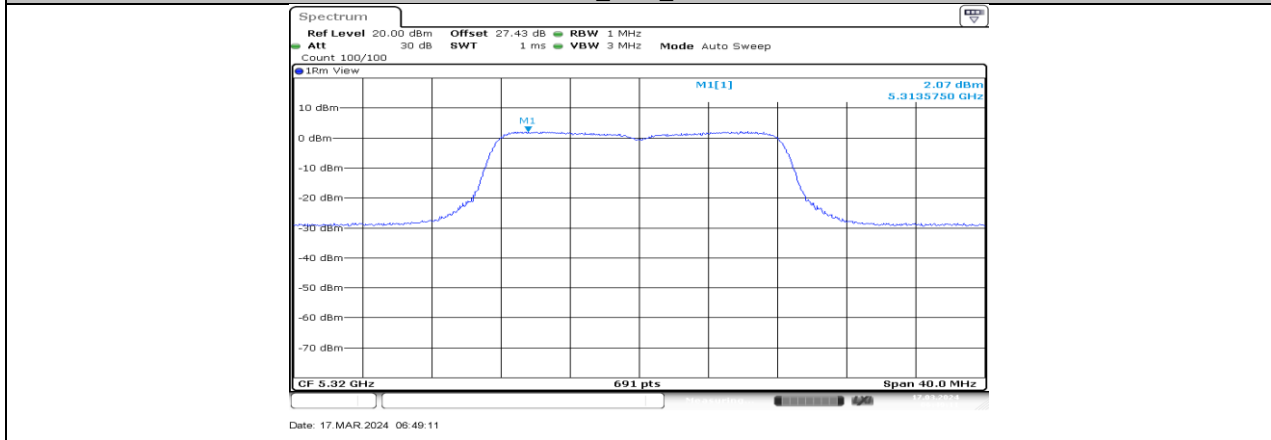




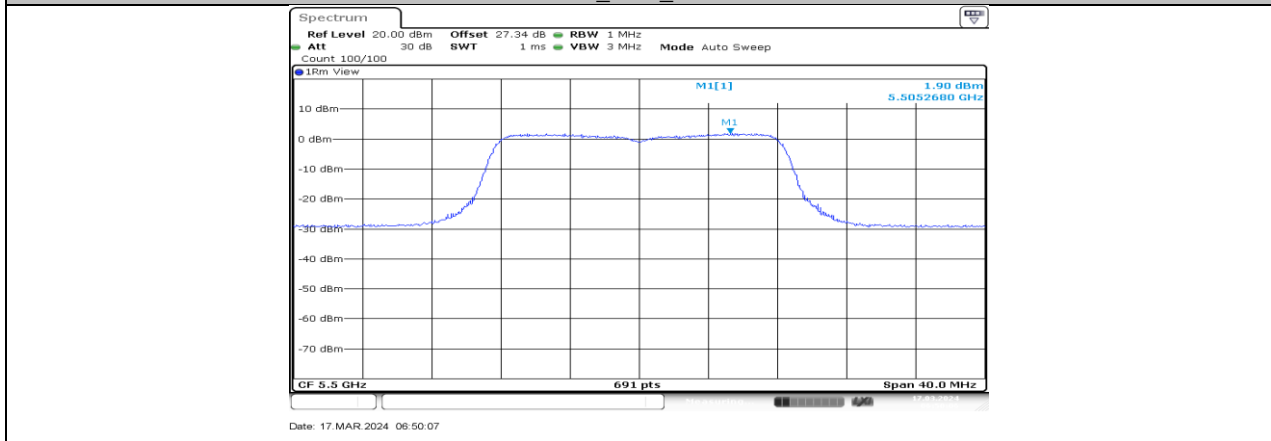
11A_Ant4_5260

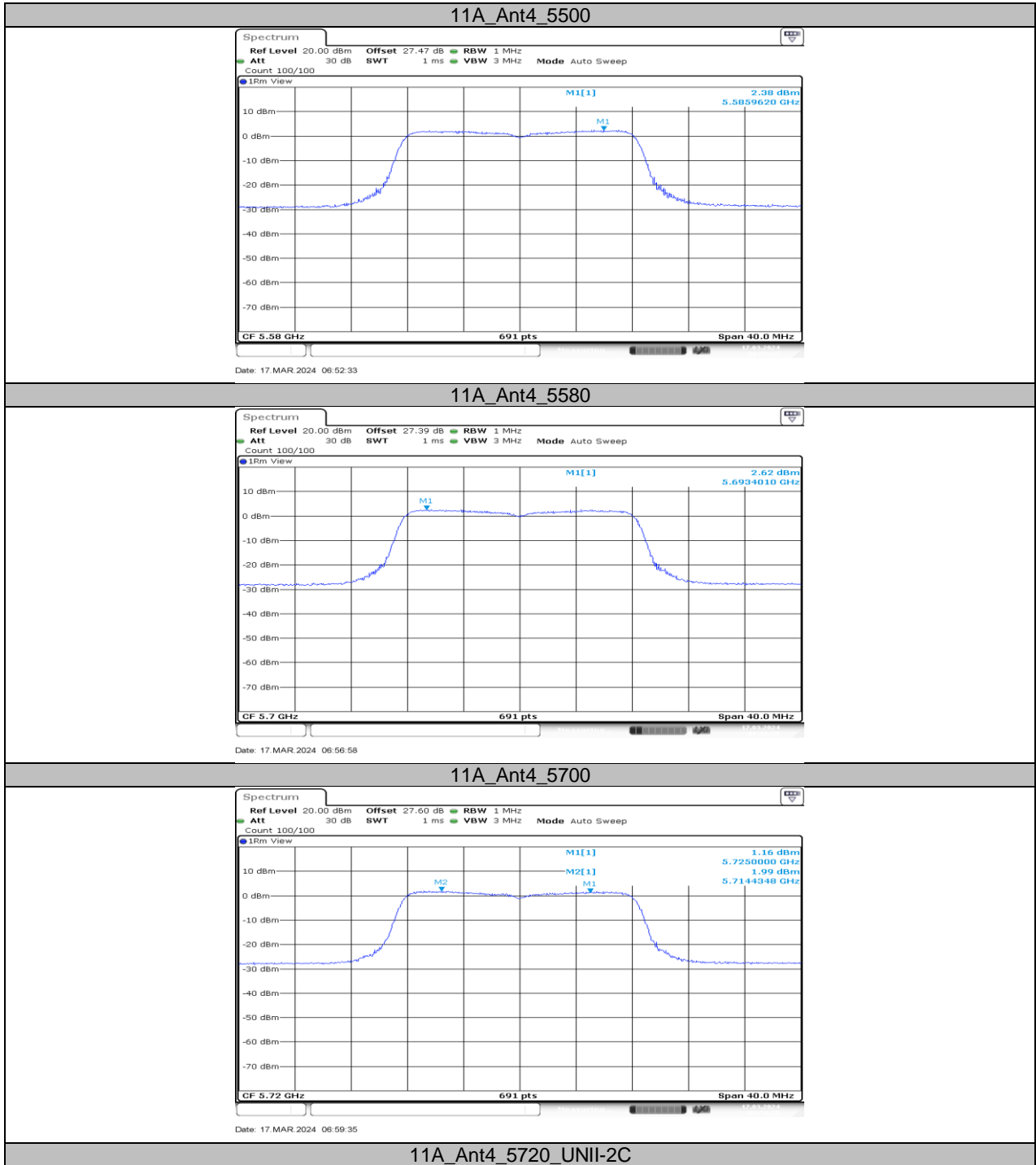


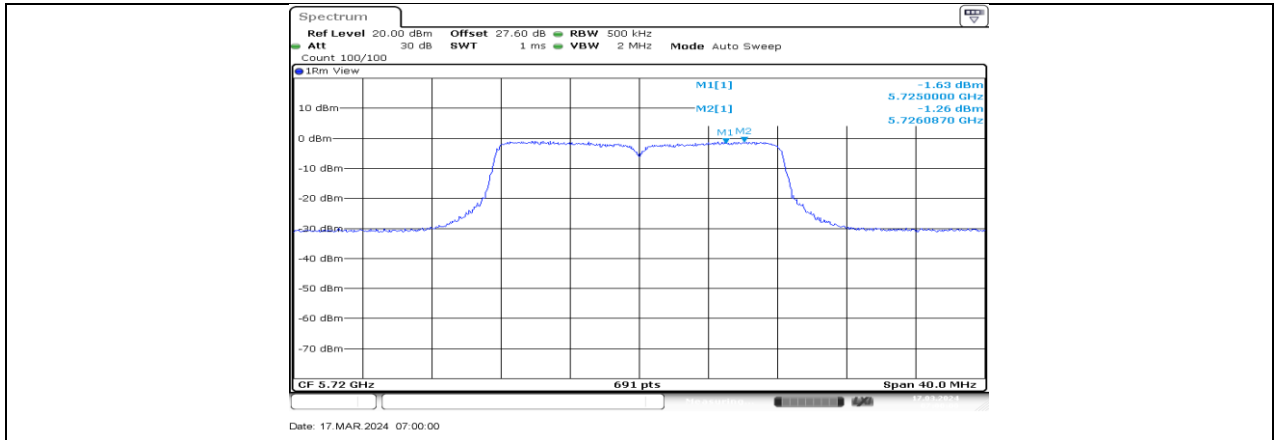
11A_Ant4_5280



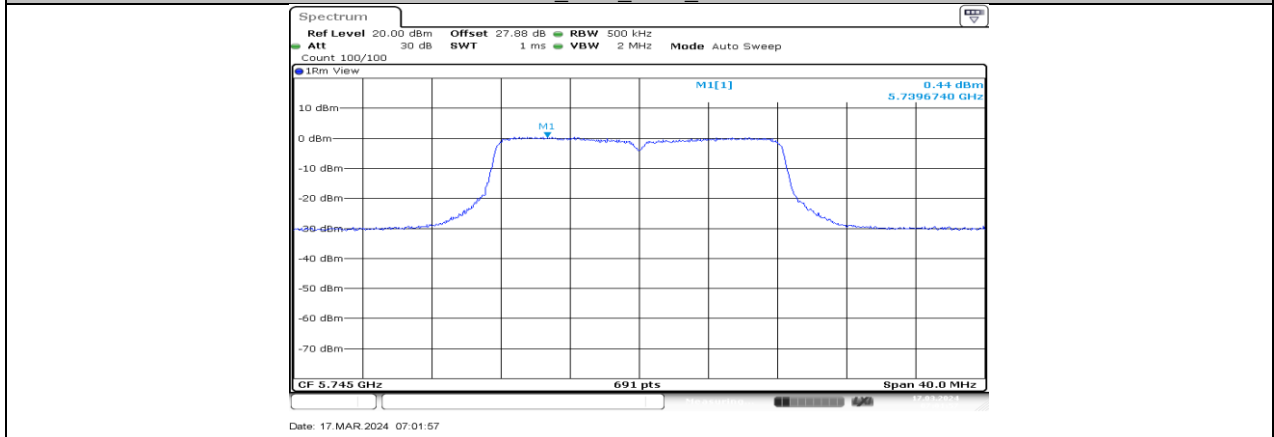
11A_Ant4_5320



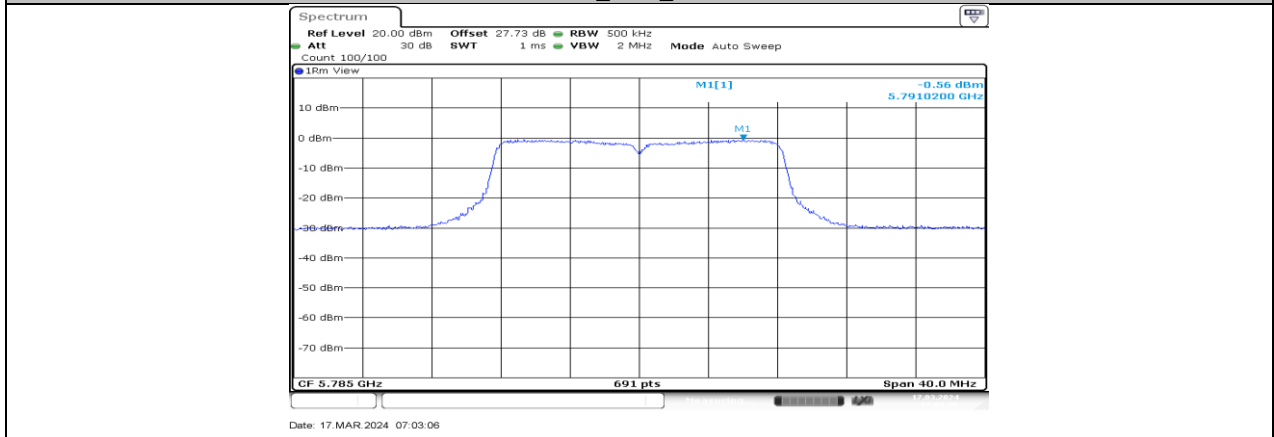




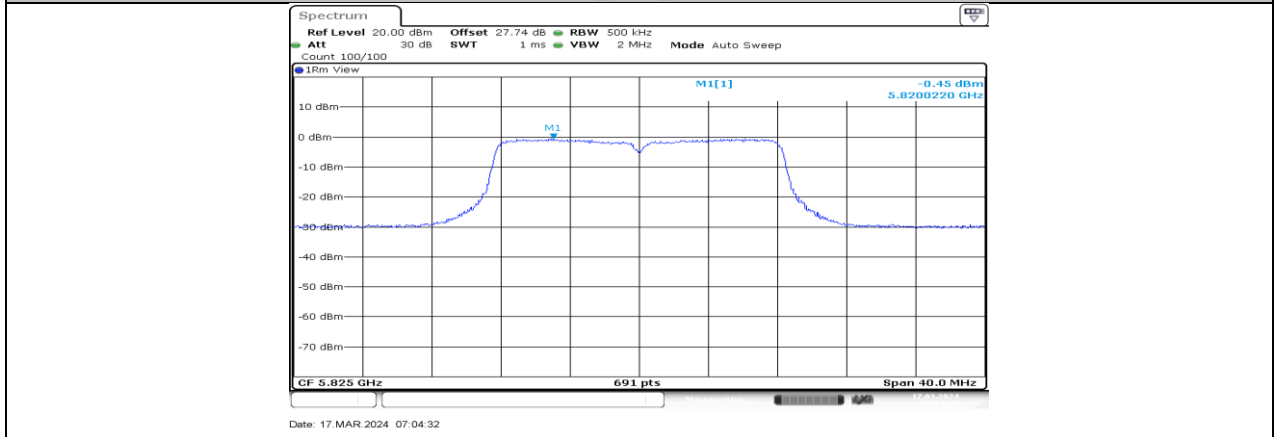
11A_Ant4_5720_UNII-3

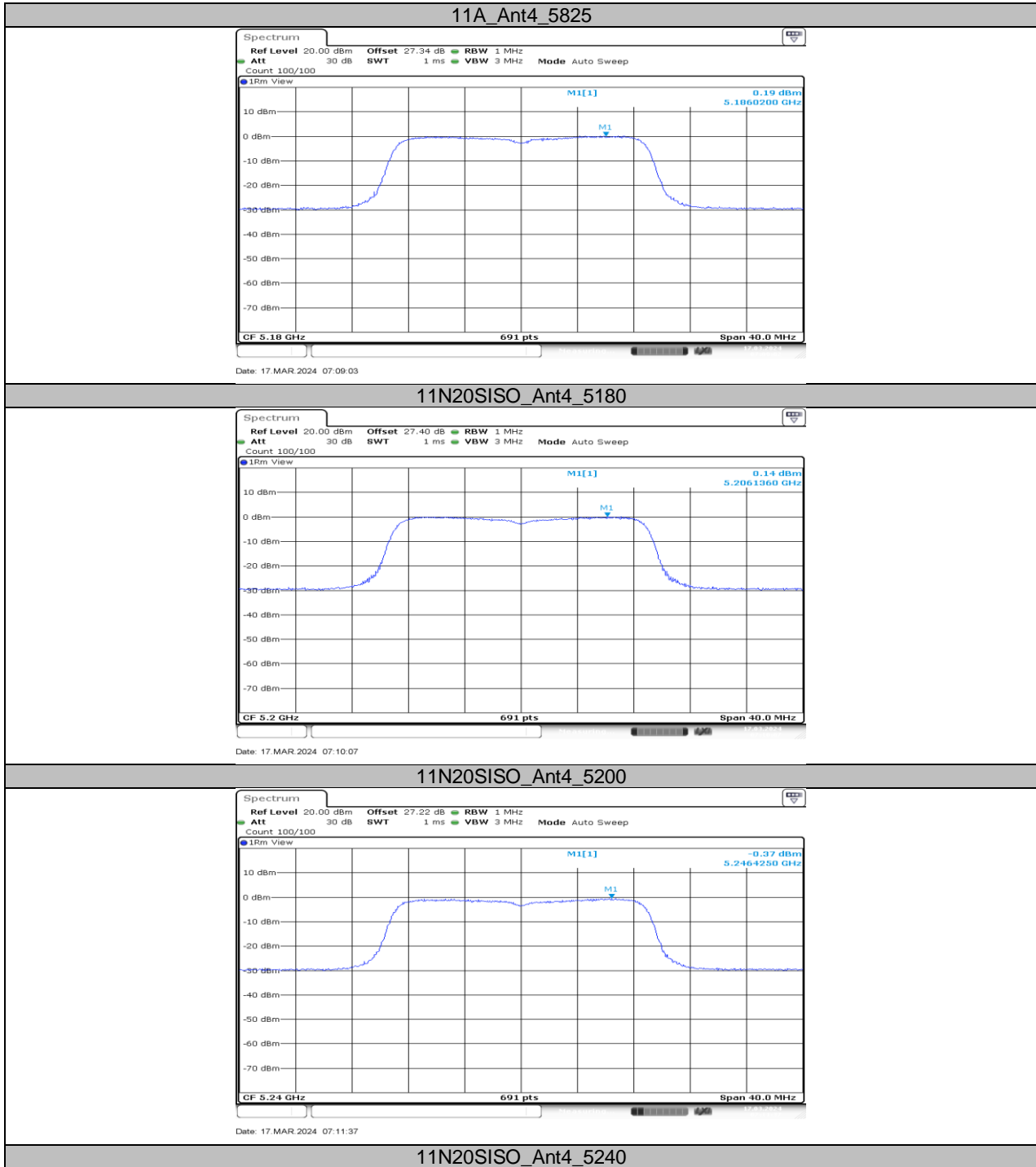


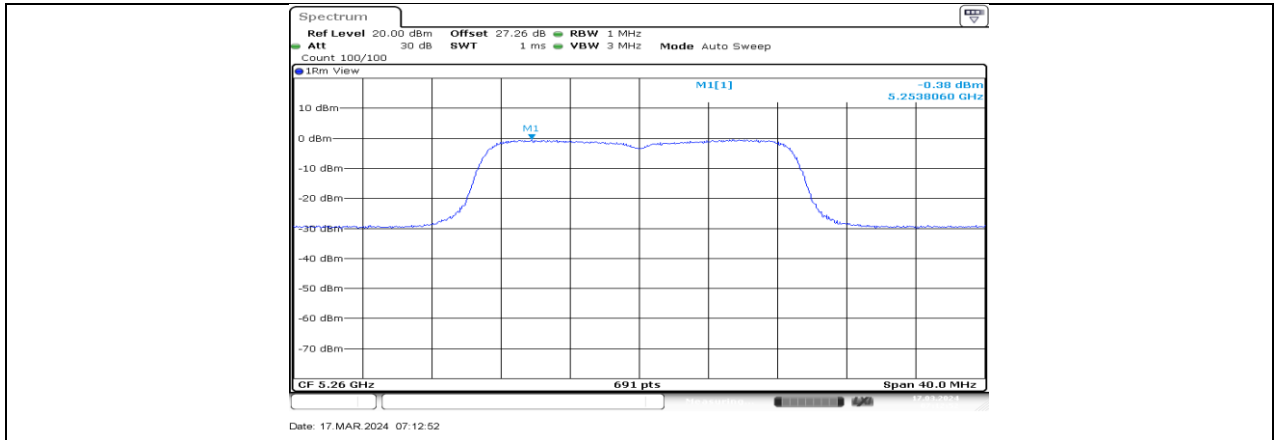
11A_Ant4_5745



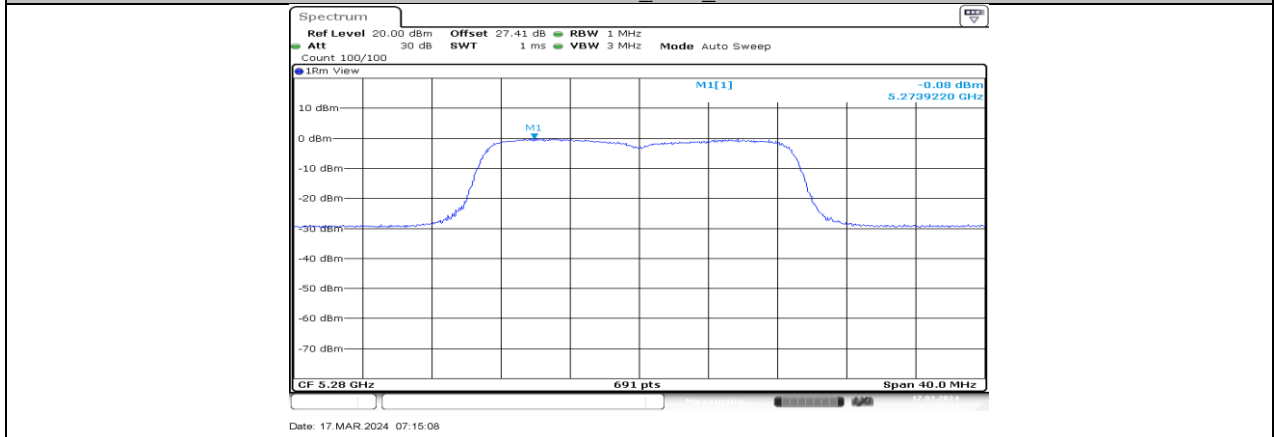
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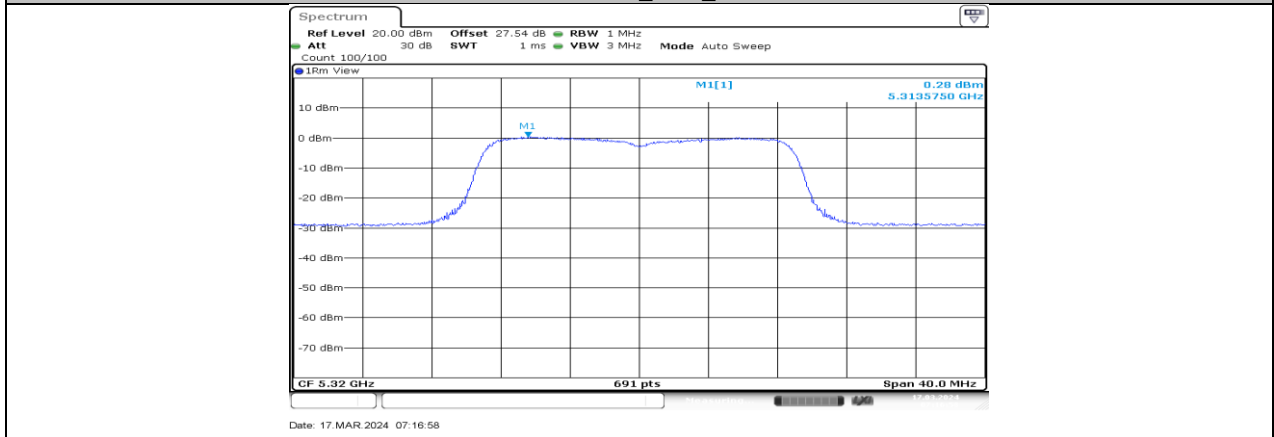




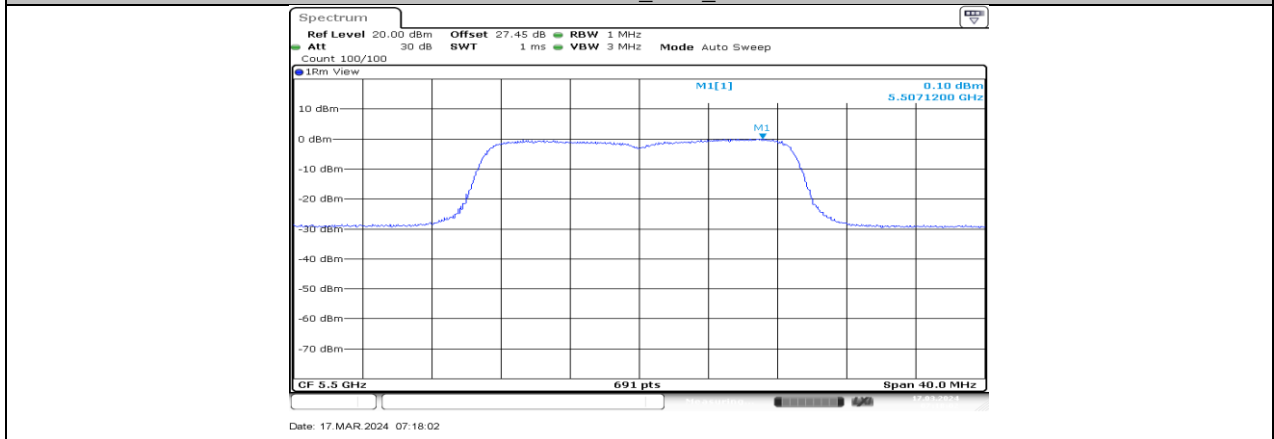
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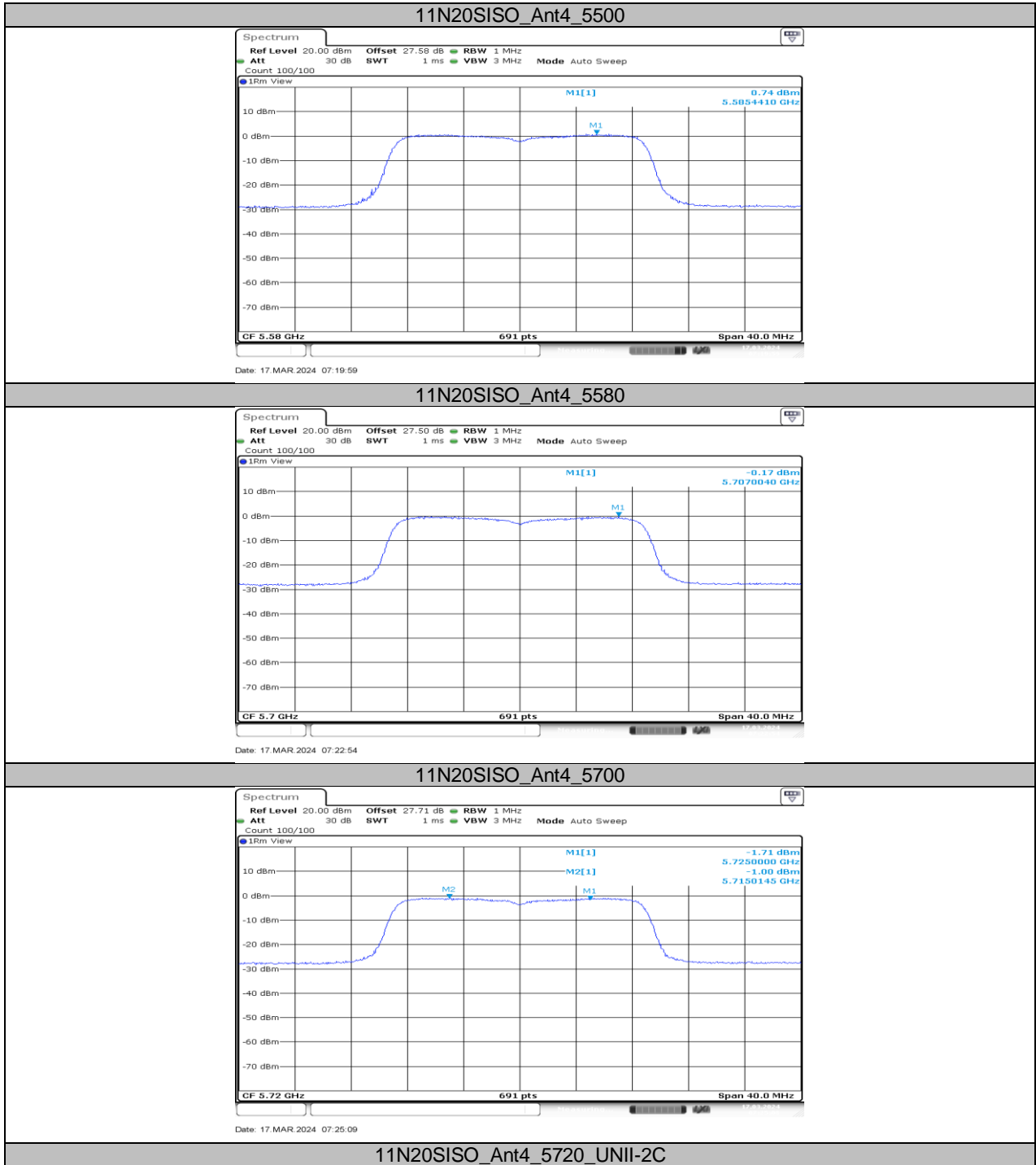


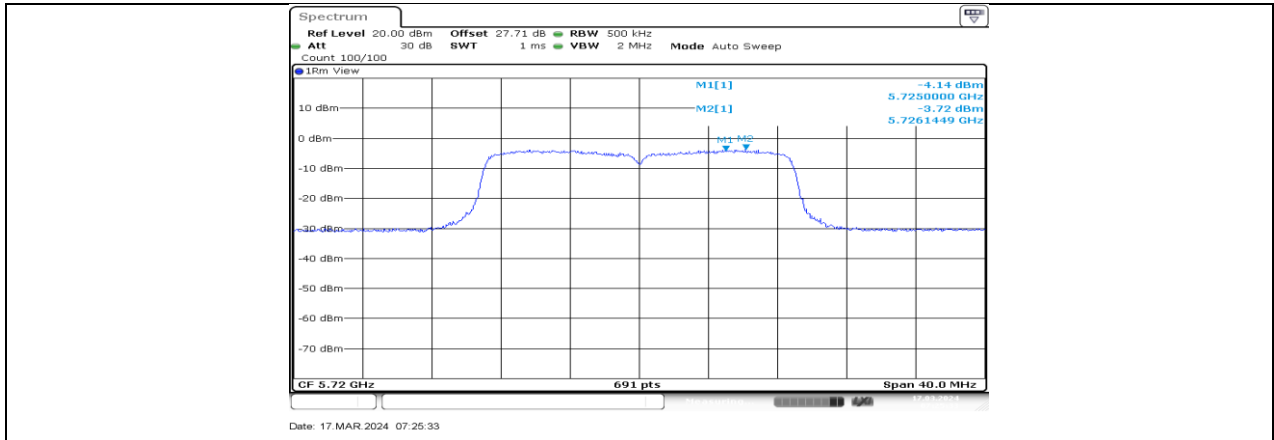
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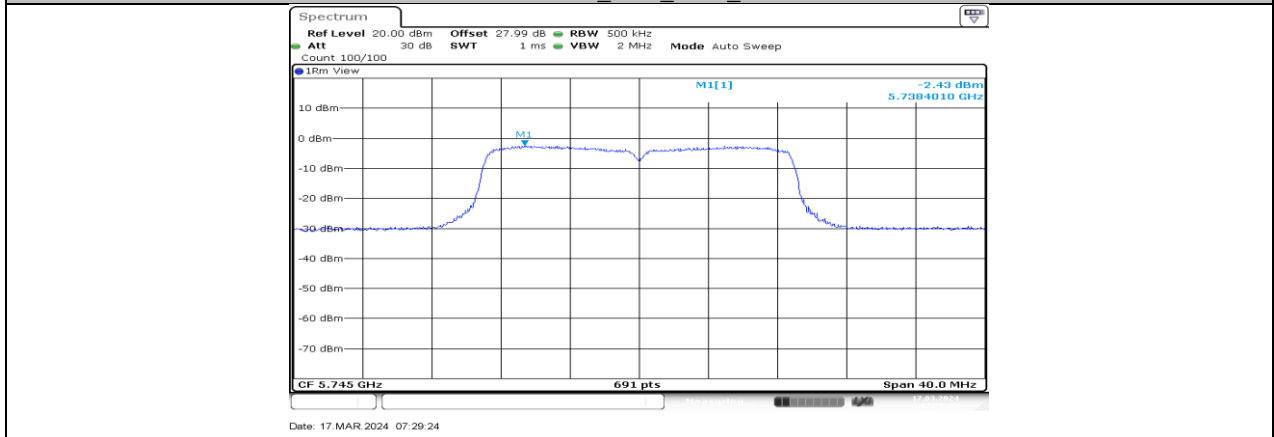
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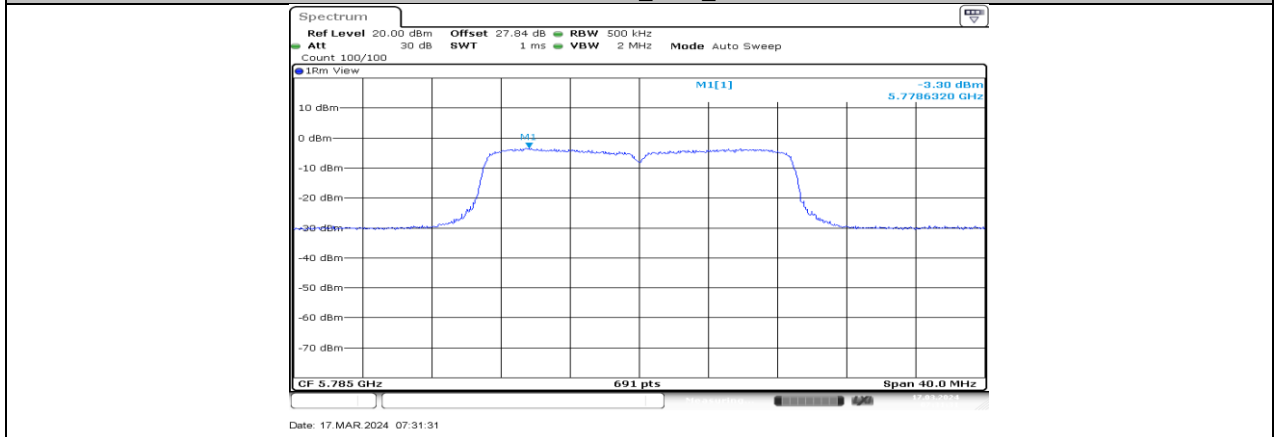




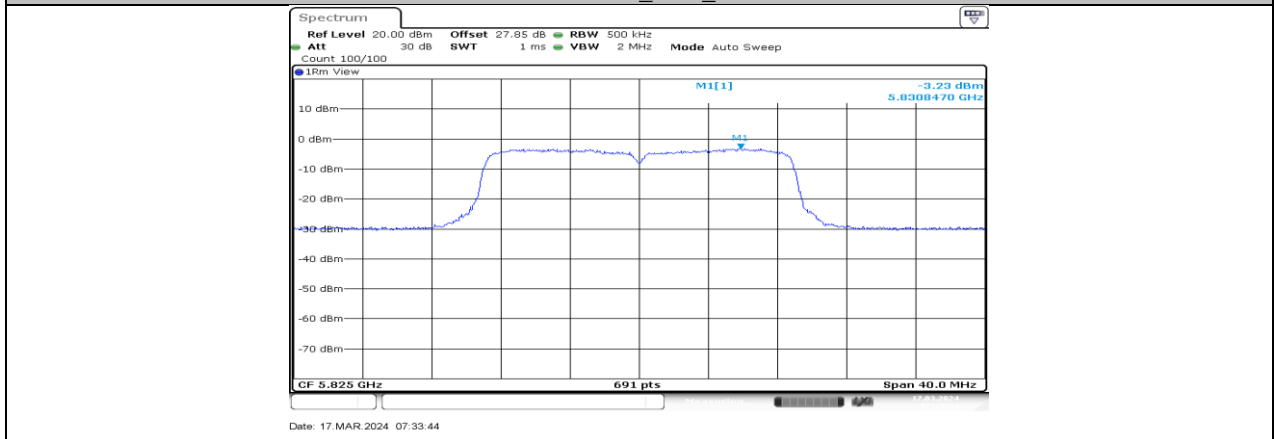
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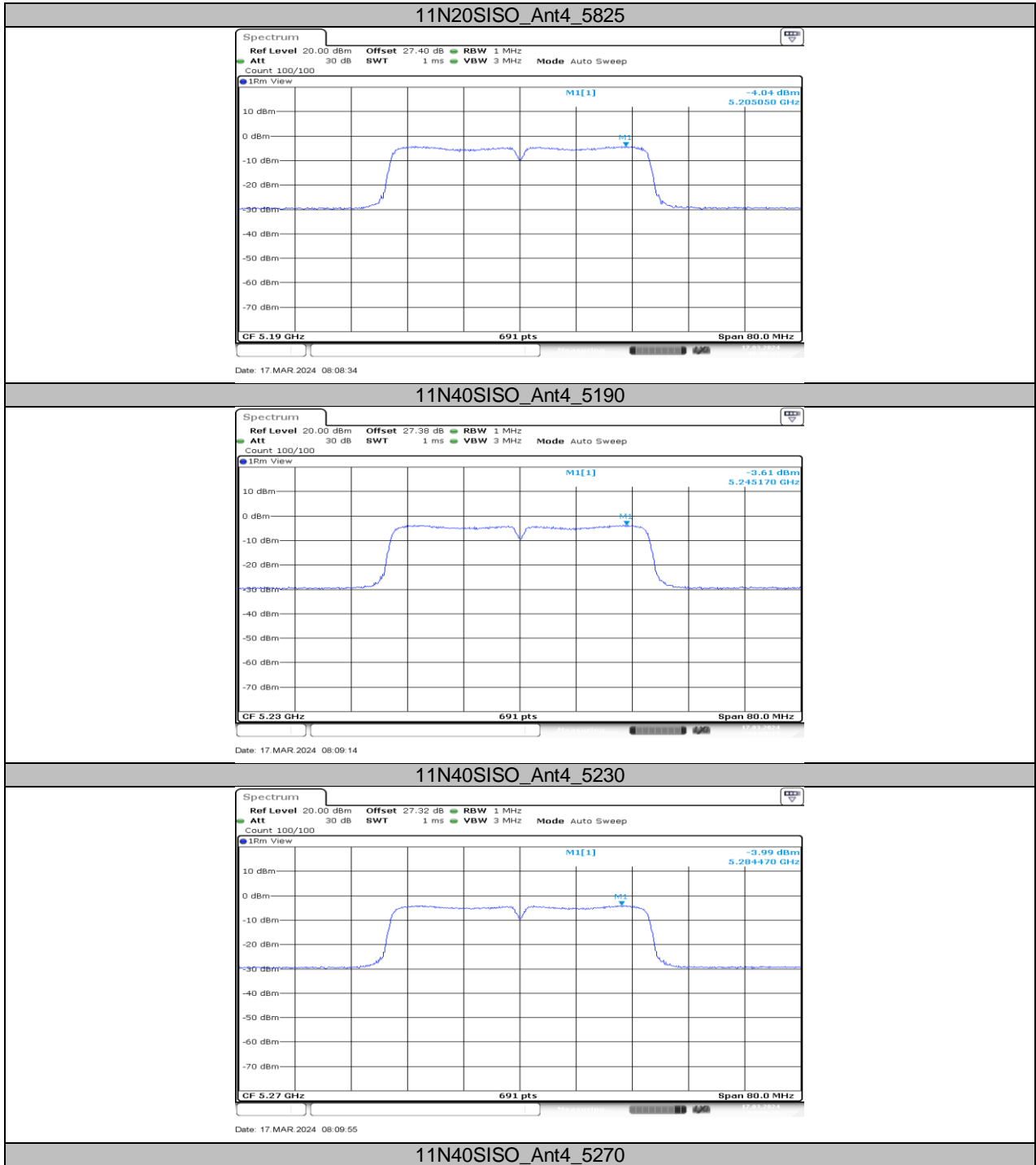


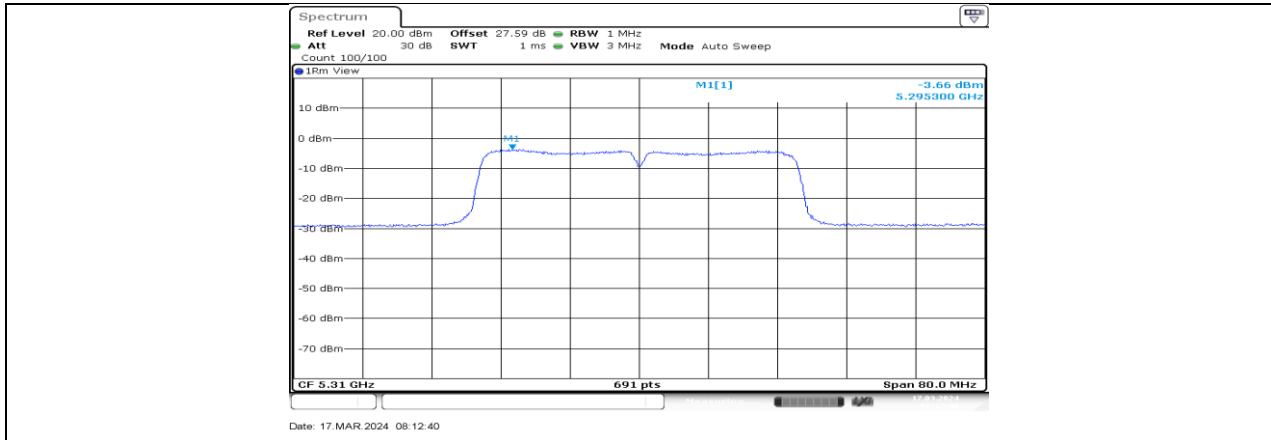
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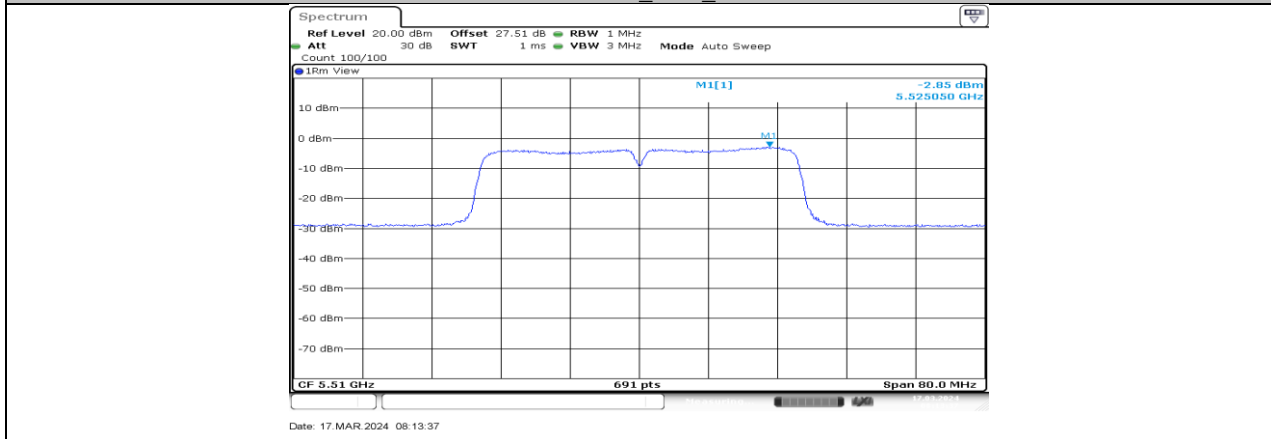
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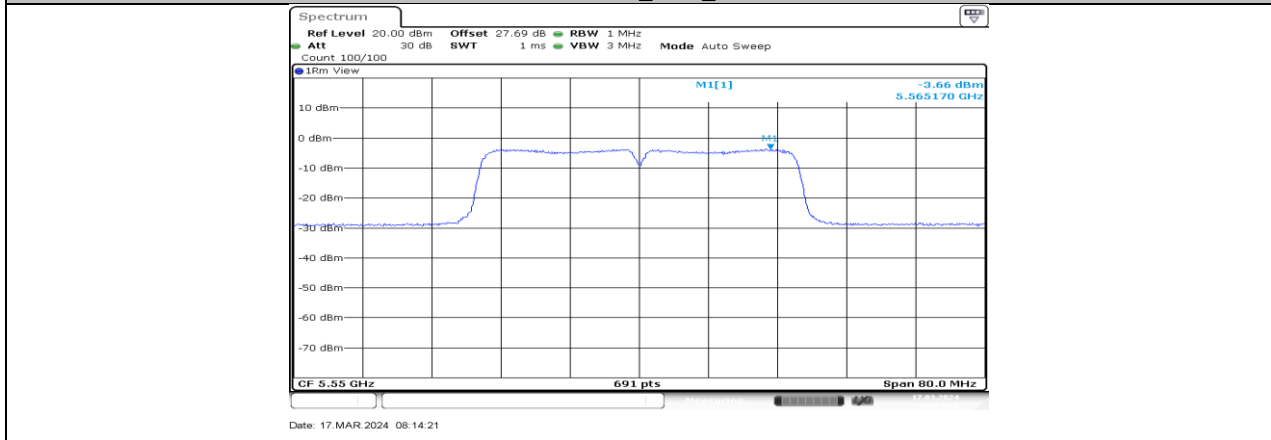




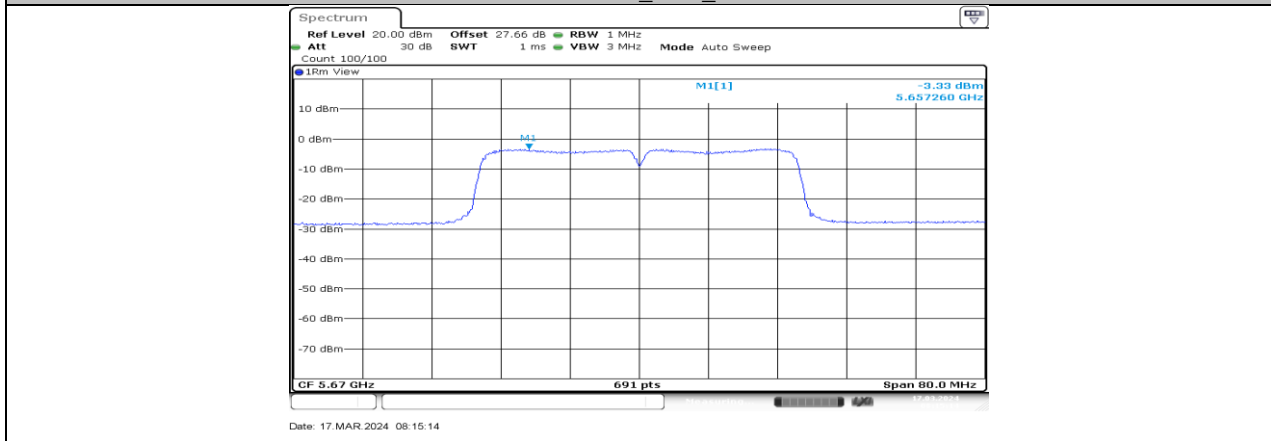
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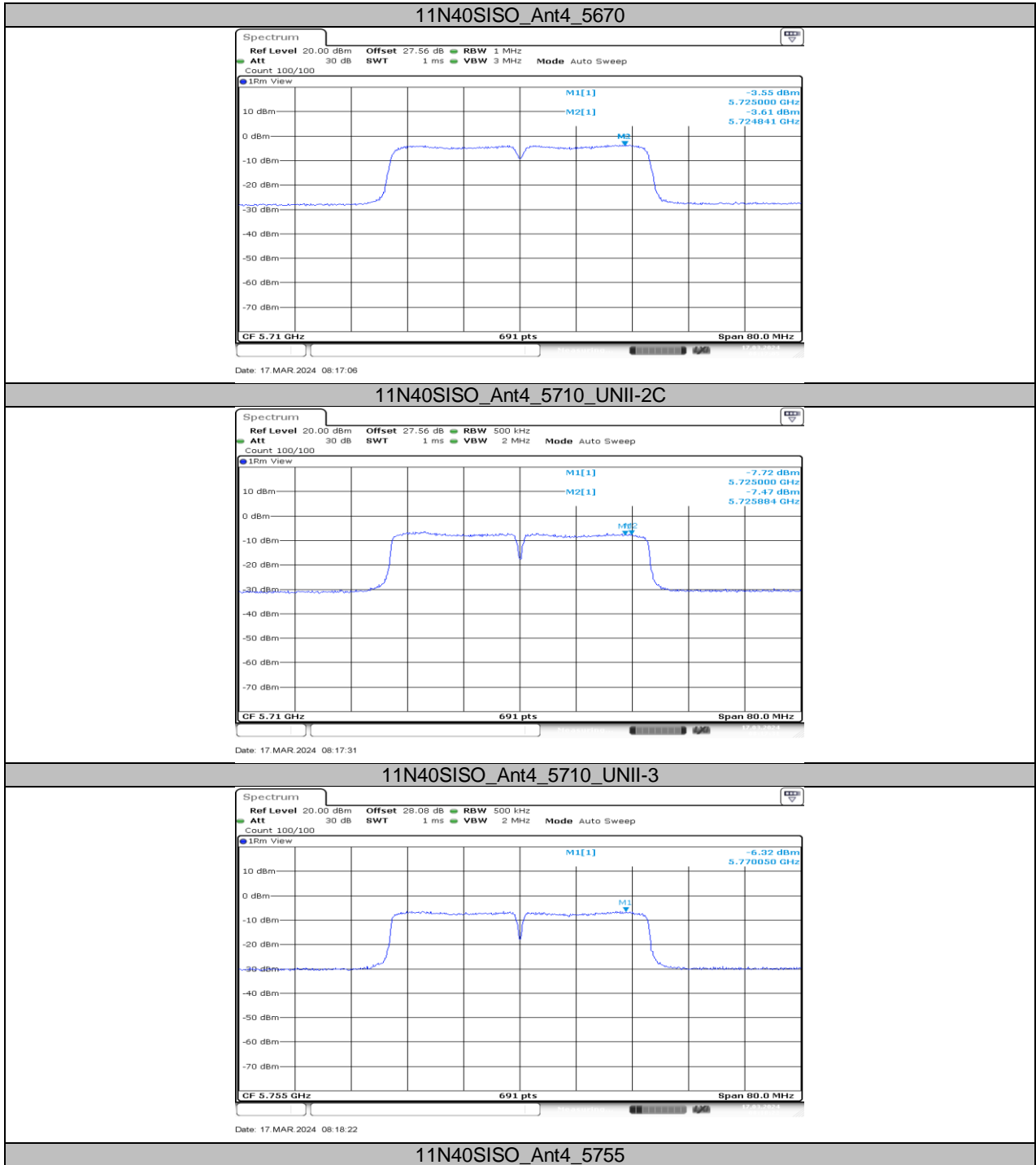


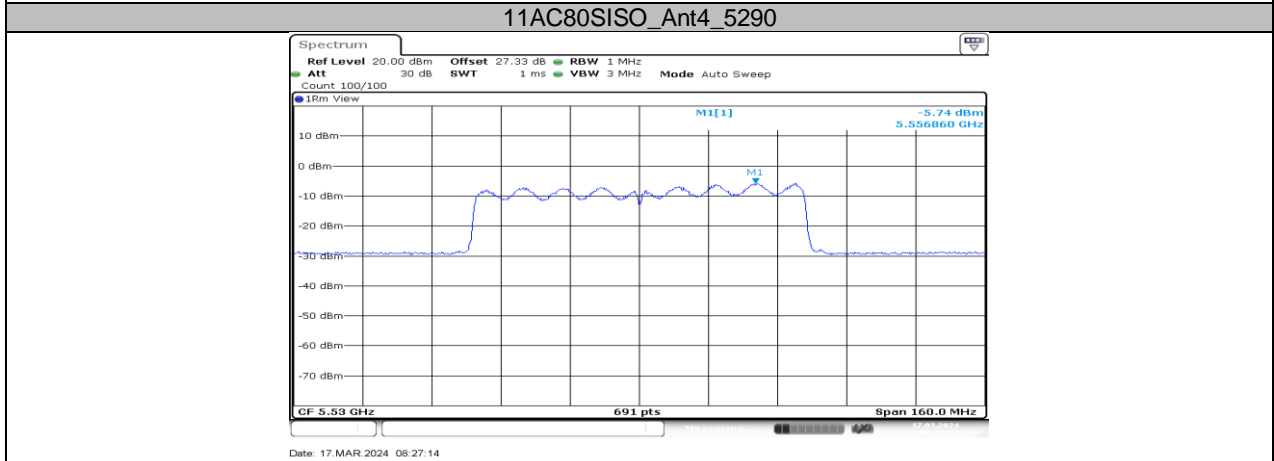
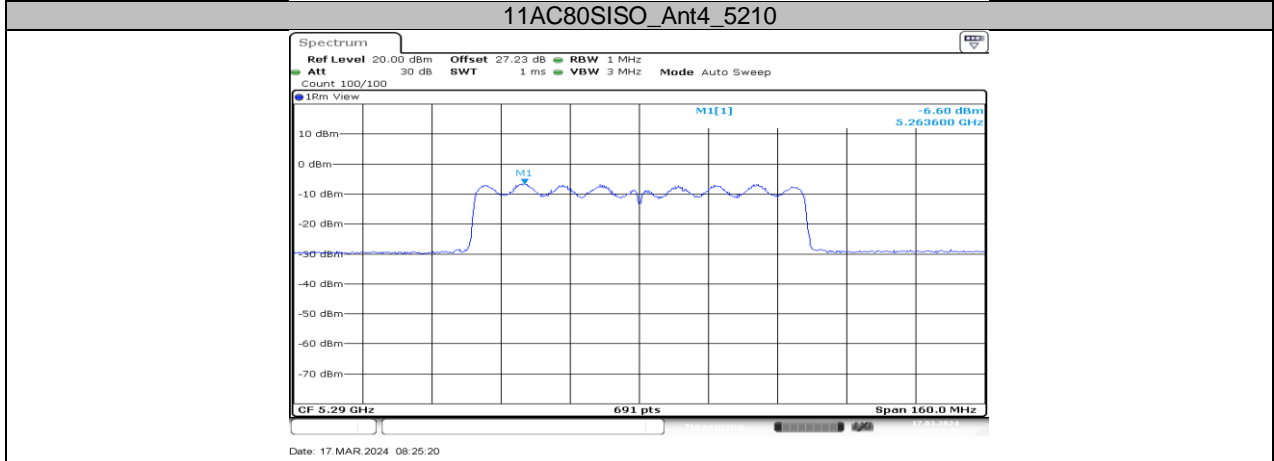
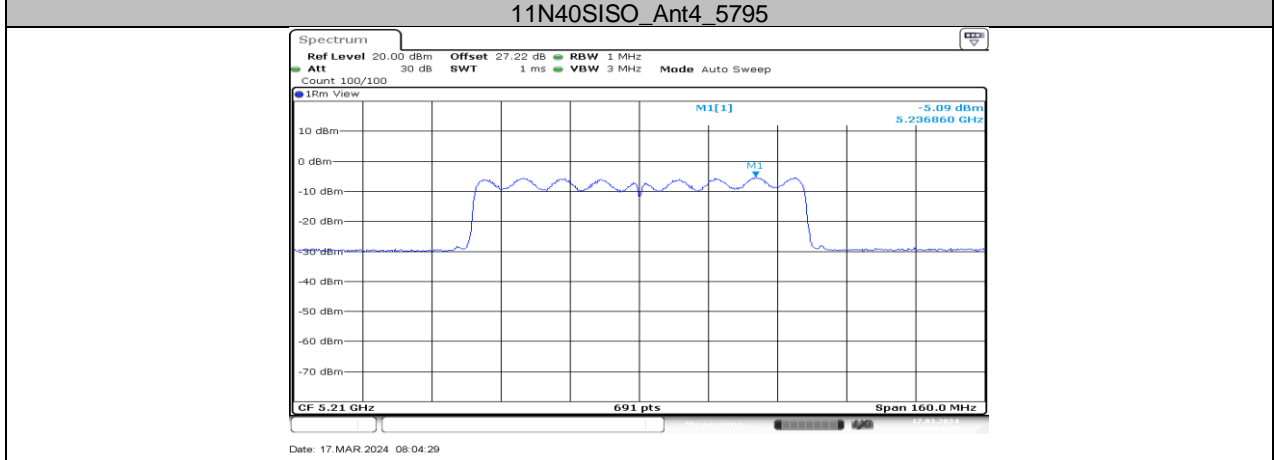
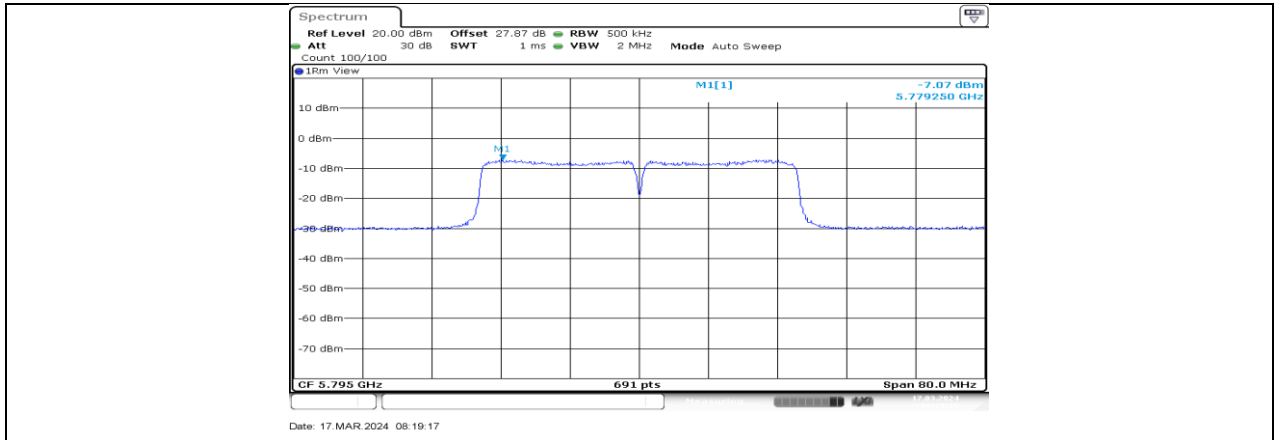
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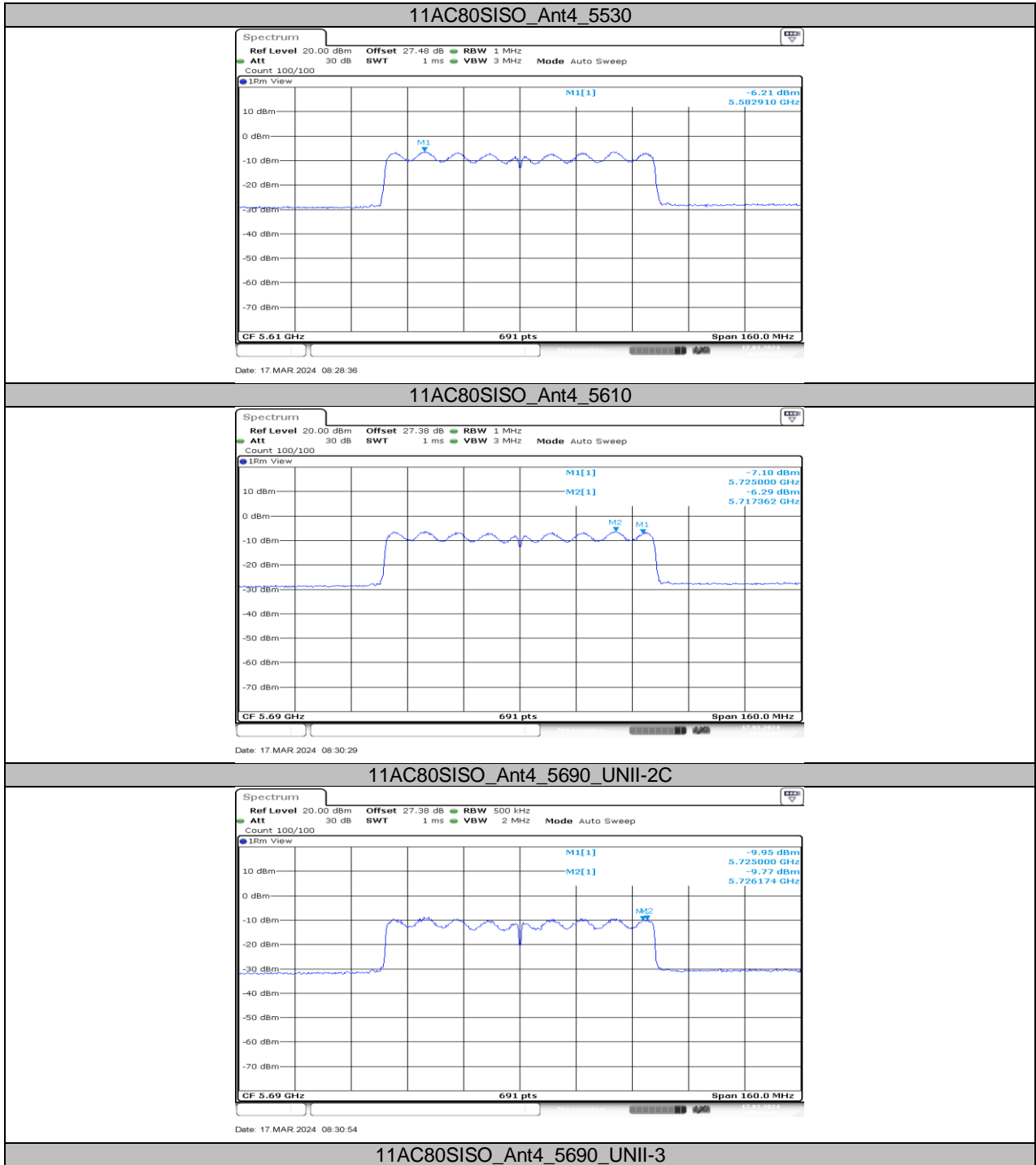


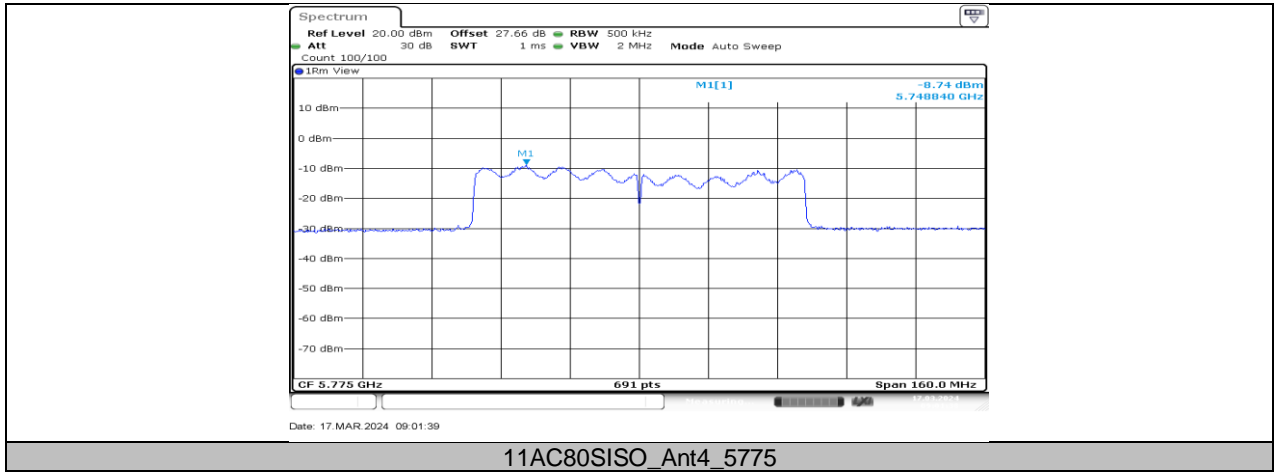
11N40SISO_Ant4_5550











11.6. APPENDIX F: 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	5180.0001	0.01	5179.9969	-0.59	5179.9937	-1.21	5179.9808	-3.70
TN	VN	5179.9982	-0.35	5179.9882	-2.27	5179.9989	-0.22	5180.0135	2.61
TN	VH	5180.0240	4.63	5179.9997	-0.05	5179.9781	-4.23	5180.0163	3.14

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	5179.9797	-3.92	5180.0087	1.68	5180.0203	3.93	5179.9766	-4.52
60	VN	5179.9830	-3.27	5180.0122	2.36	5179.9800	-3.86	5179.9810	-3.67
50	VN	5180.0208	4.01	5180.0195	3.77	5180.0124	2.39	5180.0044	0.85
40	VN	5179.9782	-4.22	5179.9971	-0.56	5180.0042	0.82	5180.0215	4.15
30	VN	5179.9956	-0.86	5179.9776	-4.33	5180.0010	0.20	5180.0220	4.25
20	VN	5179.9979	-0.41	5179.9943	-1.10	5179.9875	-2.41	5180.0185	3.56
10	VN	5180.0198	3.83	5180.0051	0.98	5180.0200	3.86	5180.0017	0.34
0	VN	5180.0093	1.80	5180.0033	0.65	5179.9982	-0.35	5179.9754	-4.75

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	5824.9771	-3.94	5824.9891	-1.87	5824.9781	-3.76	5824.9892	-1.85
TN	VN	5824.9878	-2.09	5825.0018	0.31	5825.0052	0.90	5825.0082	1.41
TN	VH	5825.0194	3.33	5825.0074	1.27	5825.0228	3.91	5824.9773	-3.90

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	5825.0229	3.94	5825.0211	3.62	5824.9980	-0.34	5825.0241	4.13
60	VN	5825.0141	2.42	5825.0143	2.45	5825.0076	1.30	5824.9845	-2.66
50	VN	5825.0146	2.50	5825.0063	1.08	5825.0152	2.60	5824.9893	-1.84
40	VN	5825.0207	3.56	5825.0185	3.17	5824.9911	-1.53	5825.0096	1.65
30	VN	5825.0206	3.53	5824.9777	-3.83	5825.0087	1.50	5824.9805	-3.35
20	VN	5824.9808	-3.30	5825.0028	0.49	5825.0082	1.40	5824.9971	-0.50
10	VN	5825.0146	2.51	5824.9799	-3.44	5824.9807	-3.32	5825.0195	3.34
0	VN	5825.0093	1.60	5824.9926	-1.26	5825.0118	2.02	5825.0215	3.69

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	1.35	2.35	0.5745	57.45	2.41	0.74	1
11N20SISO	1.27	2.27	0.5595	55.95	2.52	0.79	1
11N40SISO	1.22	2.21	0.5520	55.20	2.58	0.82	1
11AC80SISO	1.4	2.4	0.5833	58.33	2.34	0.71	1

Note:

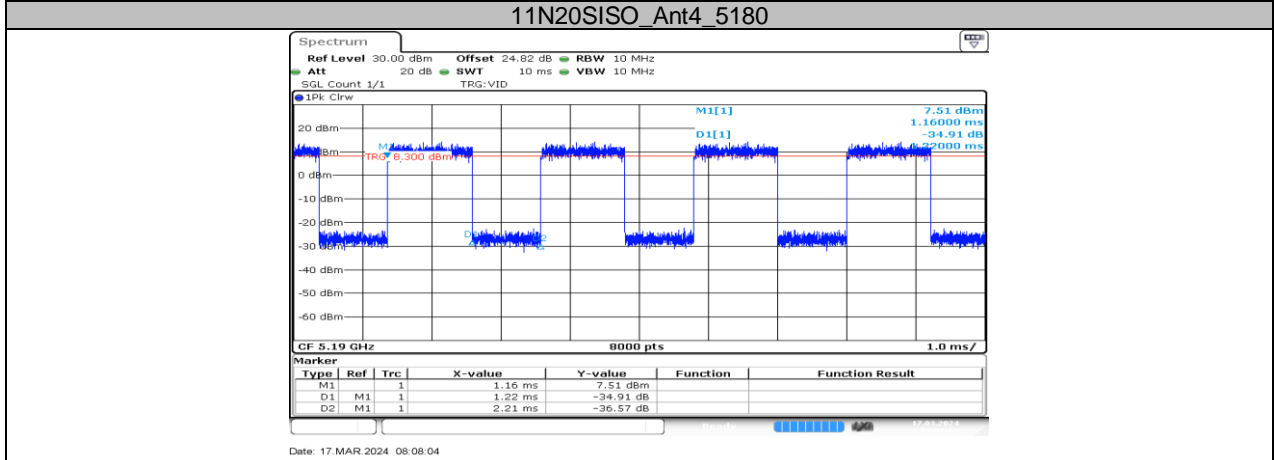
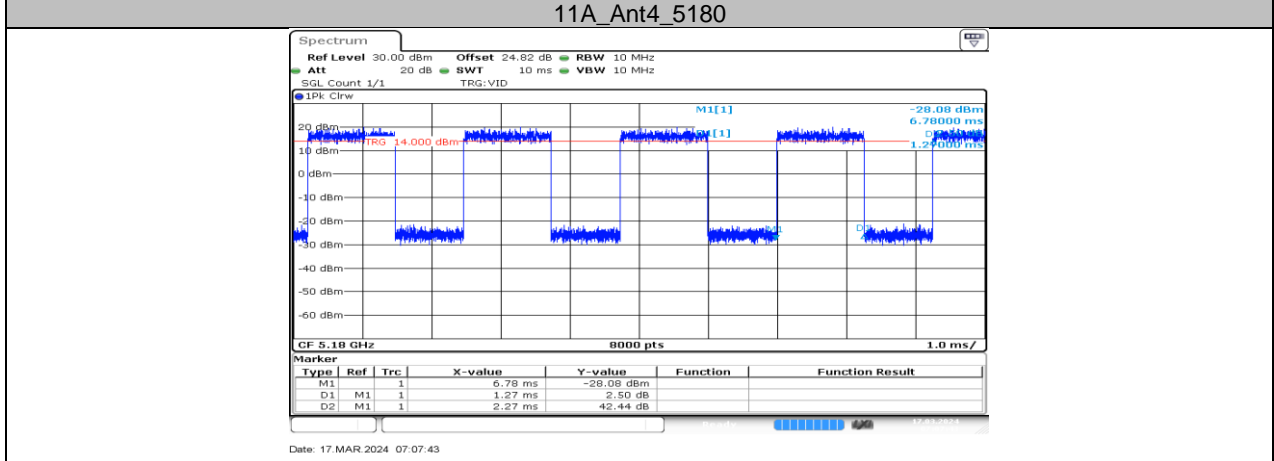
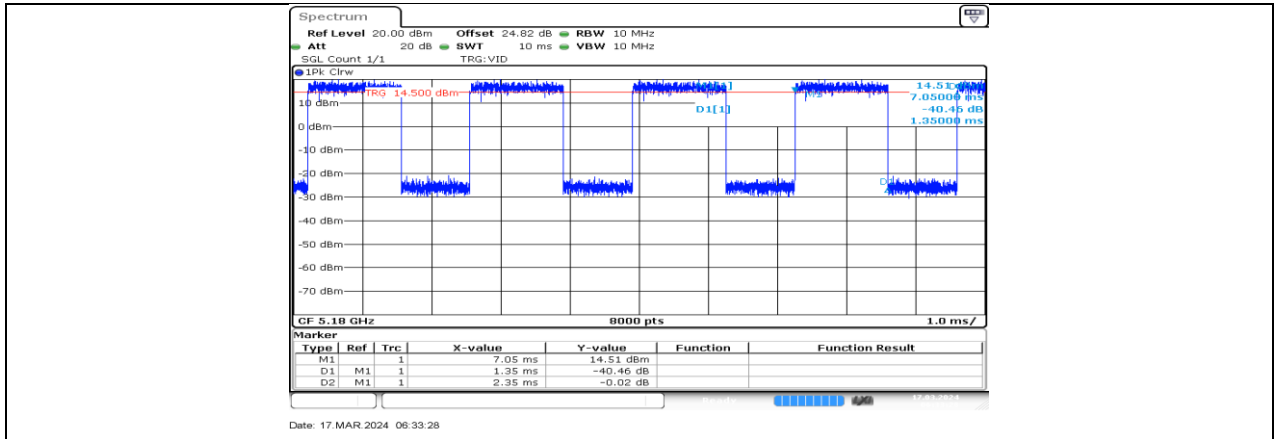
Duty Cycle Correction Factor=10log (1/x).

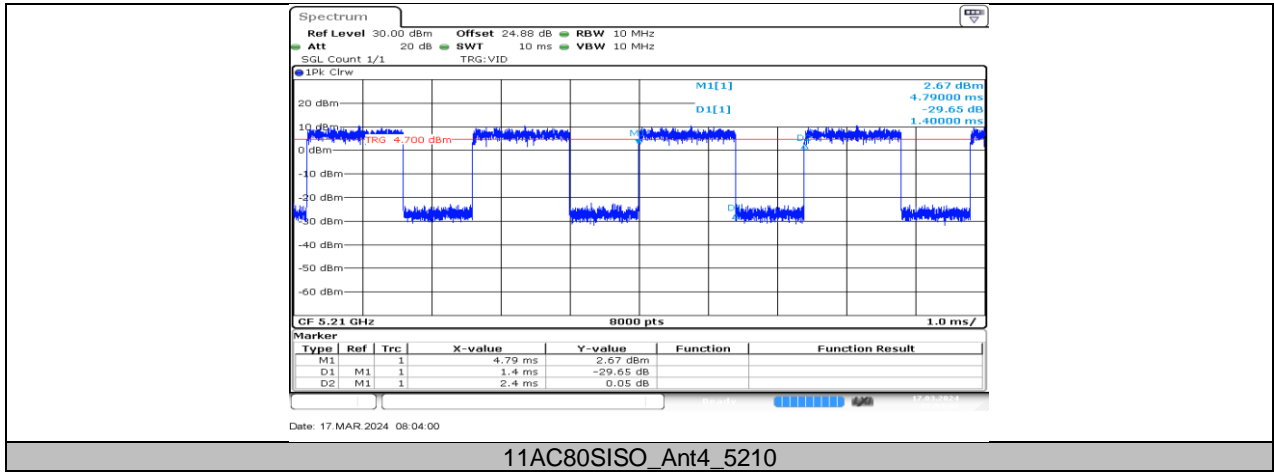
Where: x is Duty Cycle (Linear)

Where: T is On Time

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

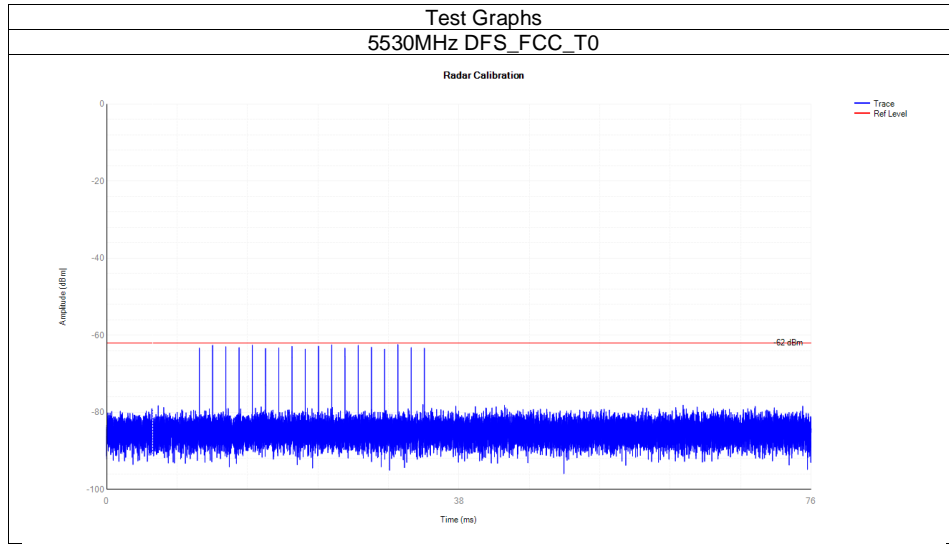
11.7.2. Test Graphs





11.8. APPENDIX H: CALIBRATION

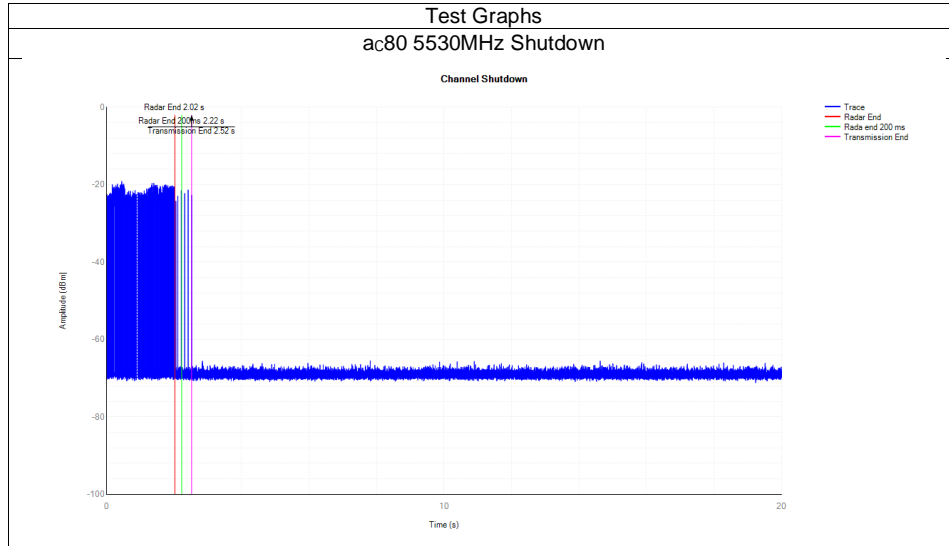
Mode	Frequency (MHz)	Type	Result	Verdict
ac80	5530	DFS_FCC_T0	See test Graph	Pass



11.9. APPENDIX I: 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	0.495	10	0.007	0.26	0.003	0.06	Pass

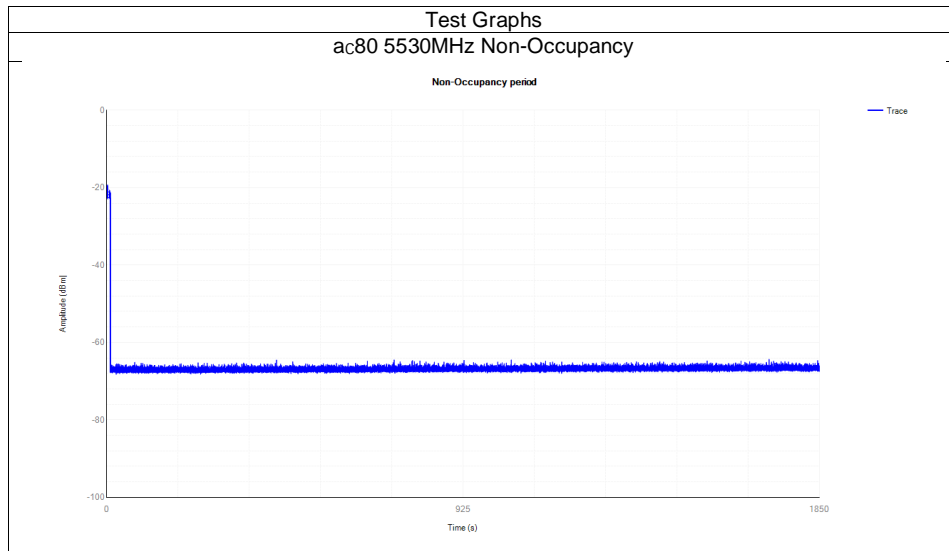
Note: refer to KDB 905462 D02 table 2, this report only records the widest BW mode test data.



11.10. APPENDIX J: NON-OCCUPANCY

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

Note: refer to KDB 905462 D02 table 2, this report only records the widest BW mode test data.



END OF REPORT