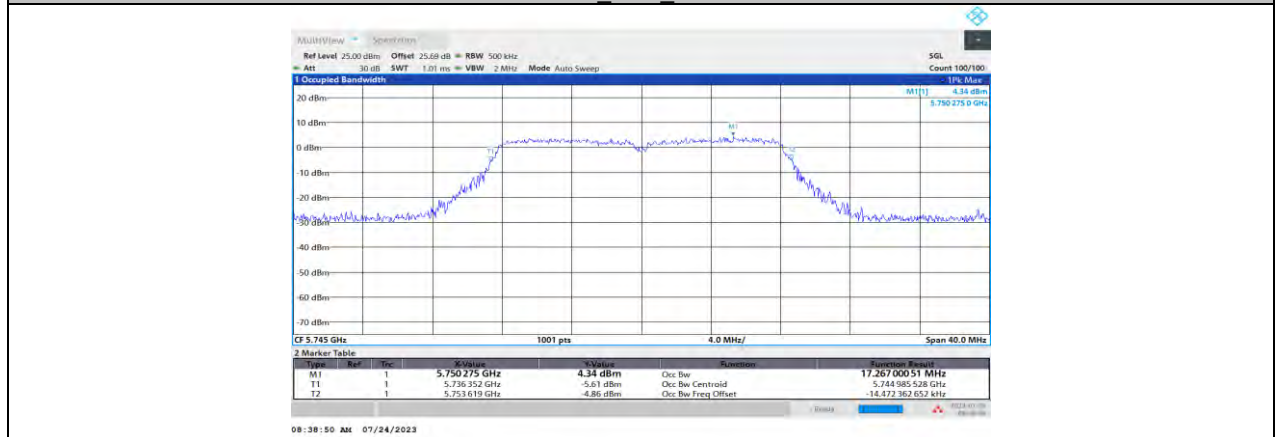
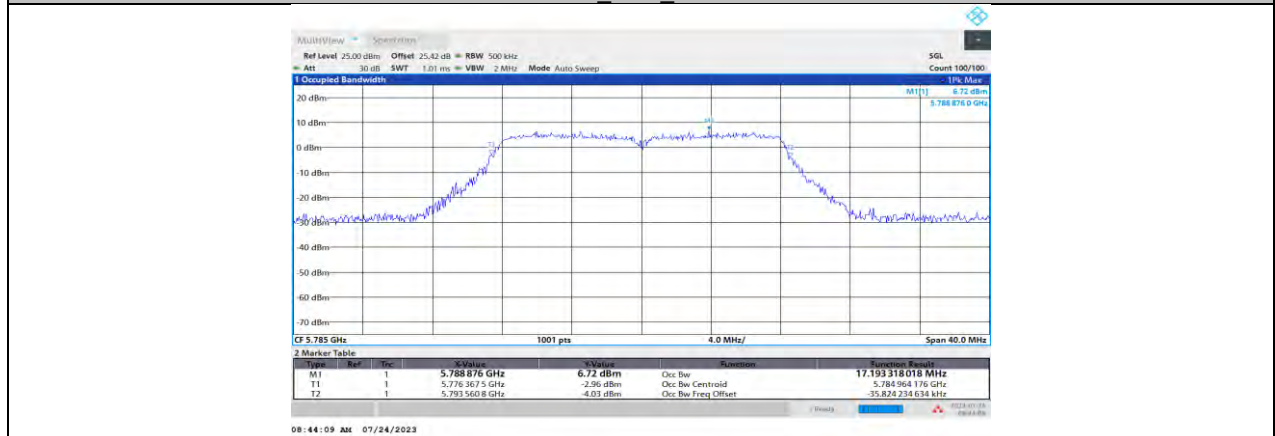


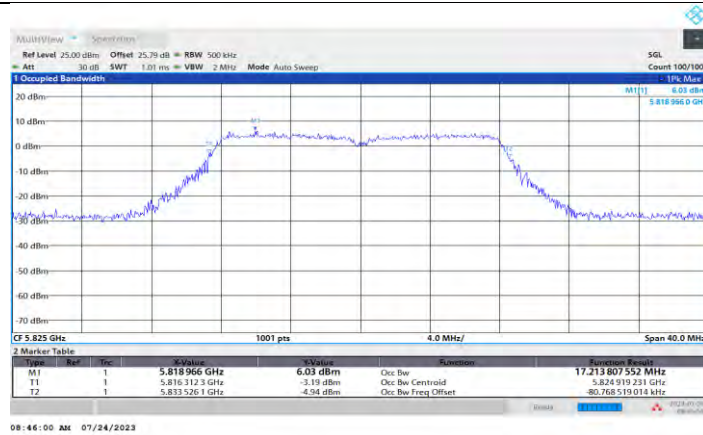
11A\_Ant3\_5720



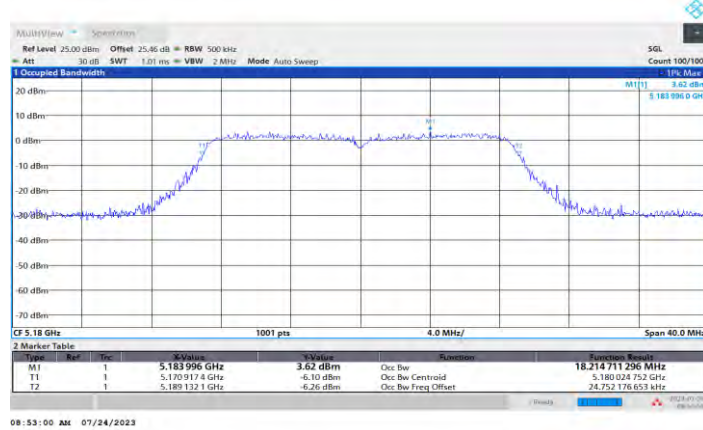
11A\_Ant3\_5745



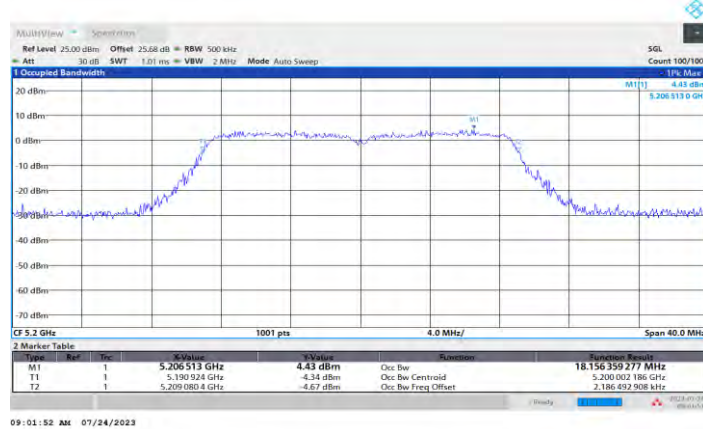
11A\_Ant3\_5785



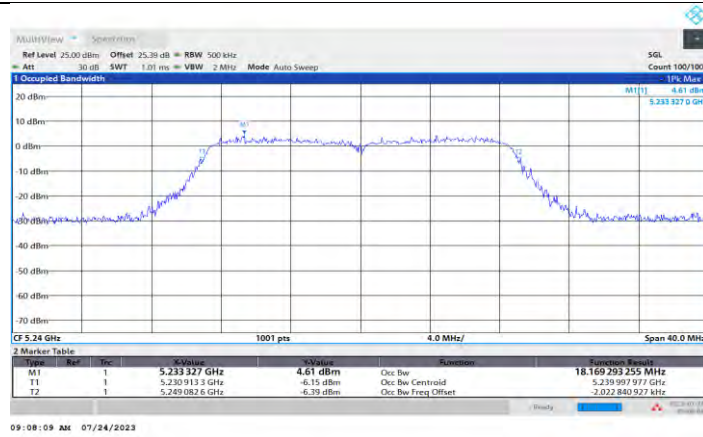
11A Ant3 5825



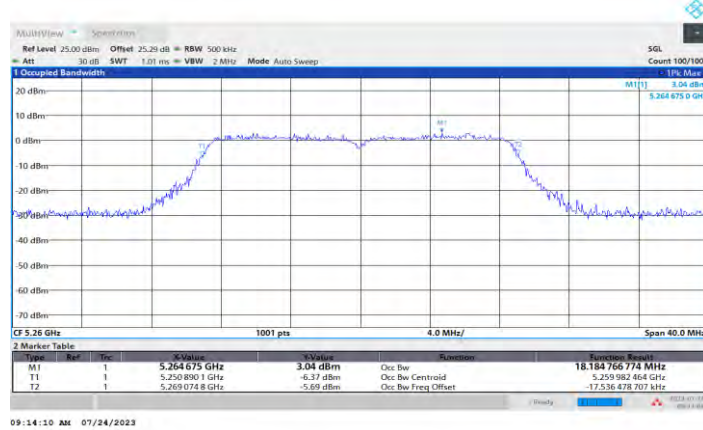
11N20SISO Ant3 5180



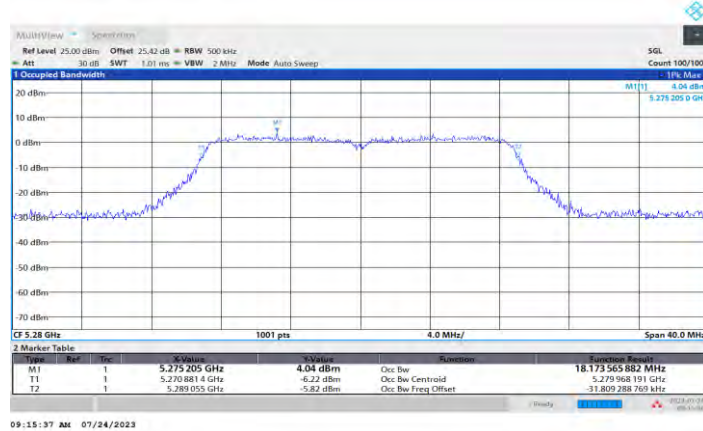
11N20SISO Ant3 5200



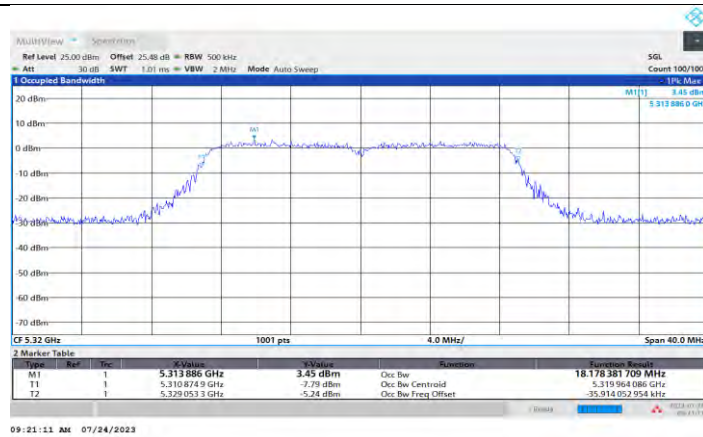
11N20SISO Ant3 5240



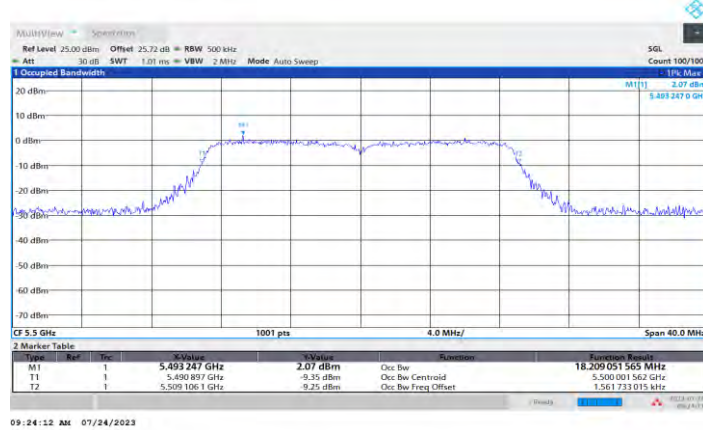
11N20SISO Ant3 5260



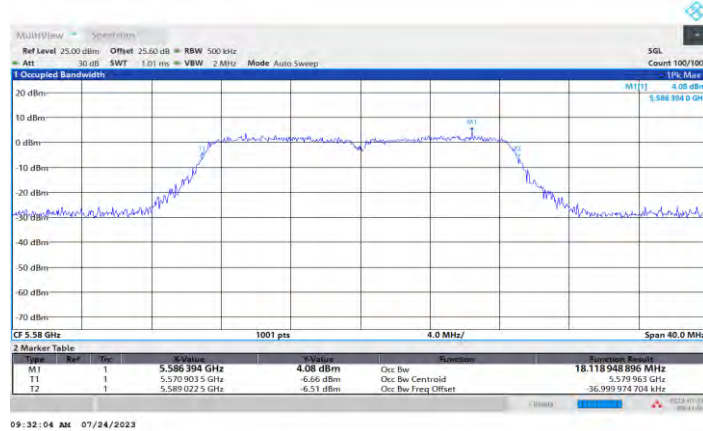
11N20SISO Ant3 5280



11N20SISO Ant3 5320

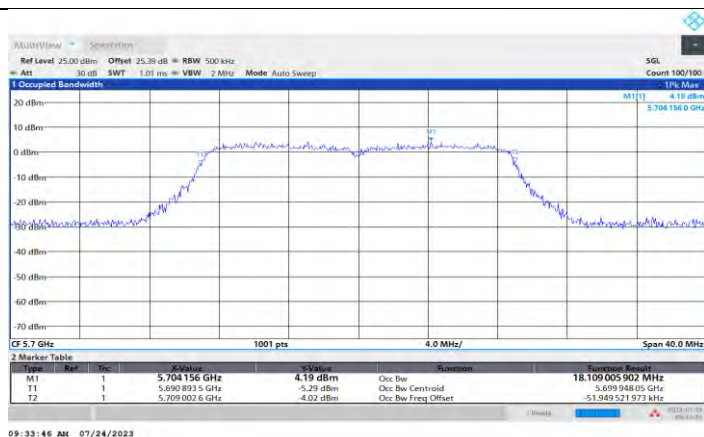


11N20SISO Ant3 5500

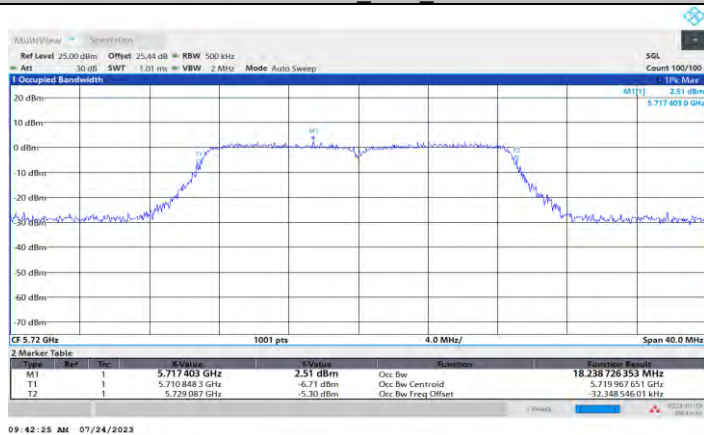


11N20SISO Ant3 5580

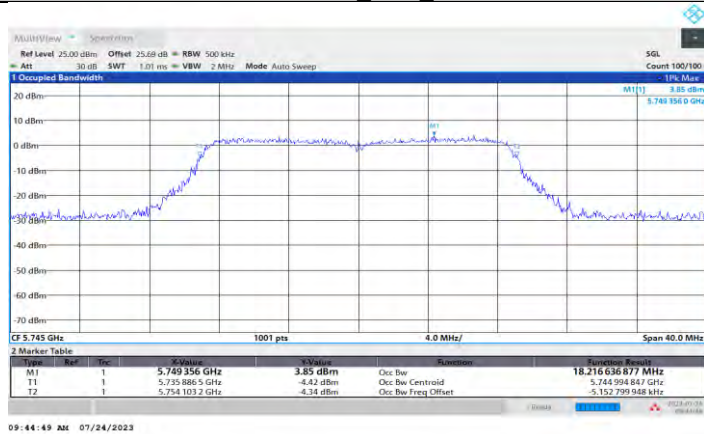




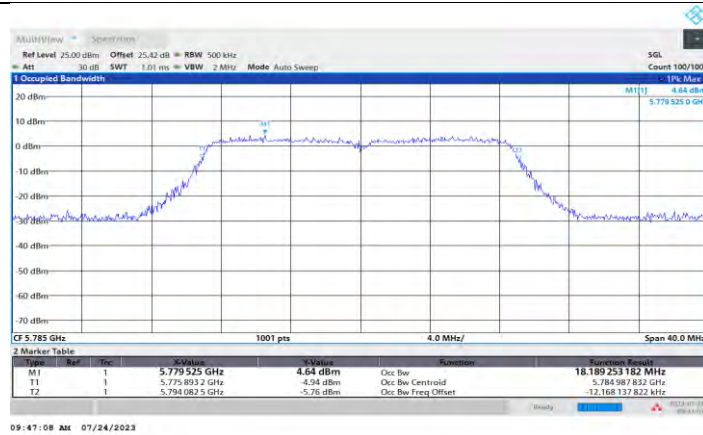
11N20SISO\_Ant3\_5700



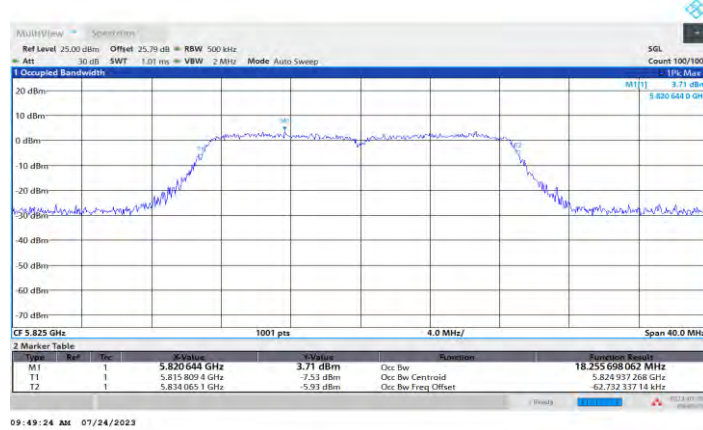
11N20SISO\_Ant3\_5720



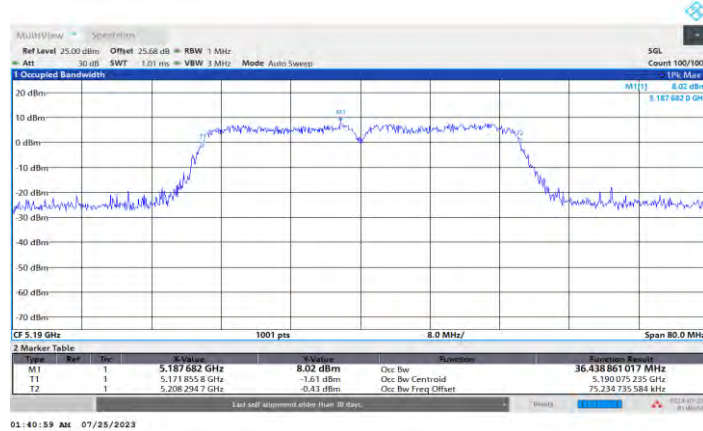
11N20SISO\_Ant3\_5745



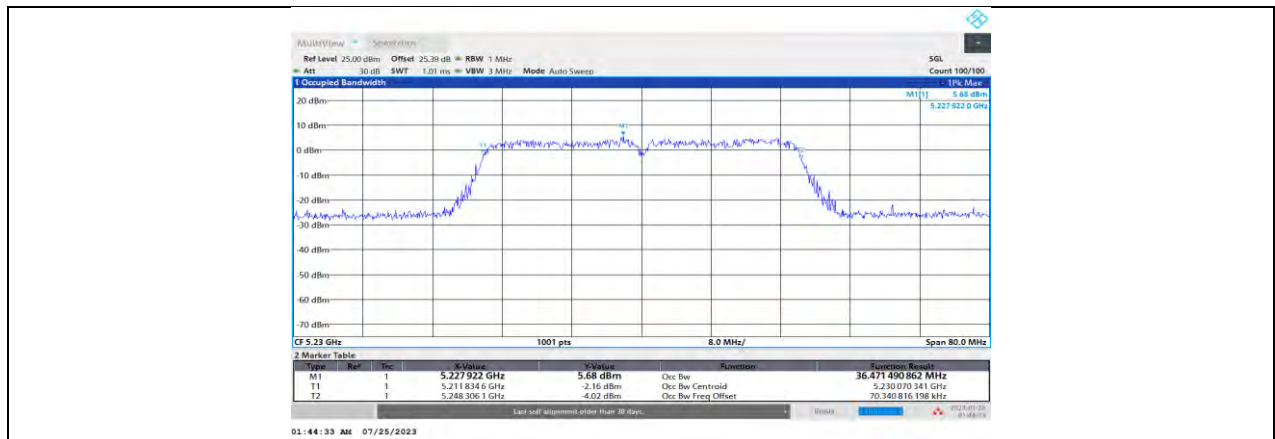
11N20SISO Ant3 5785



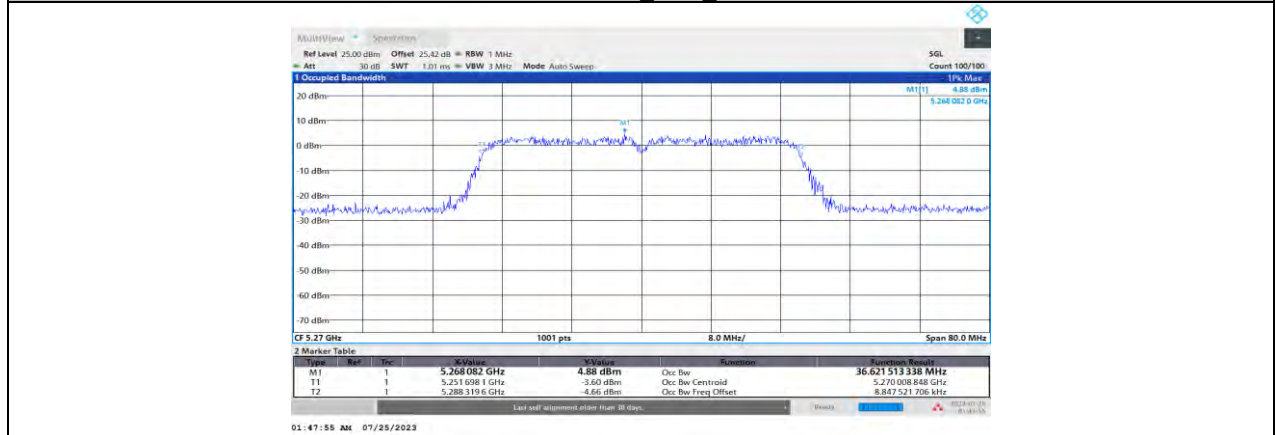
11N20SISO Ant3 5825



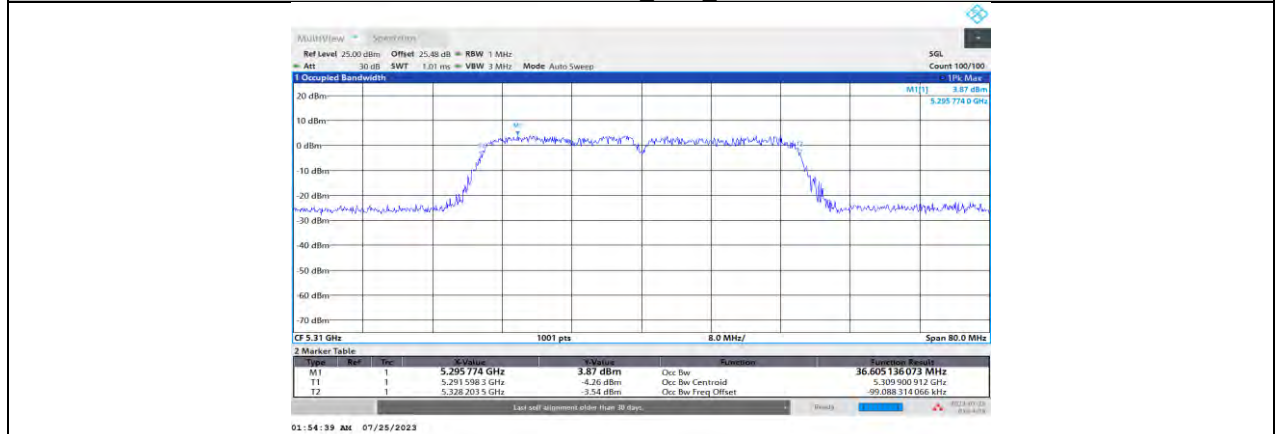
11N40SISO Ant3 5190



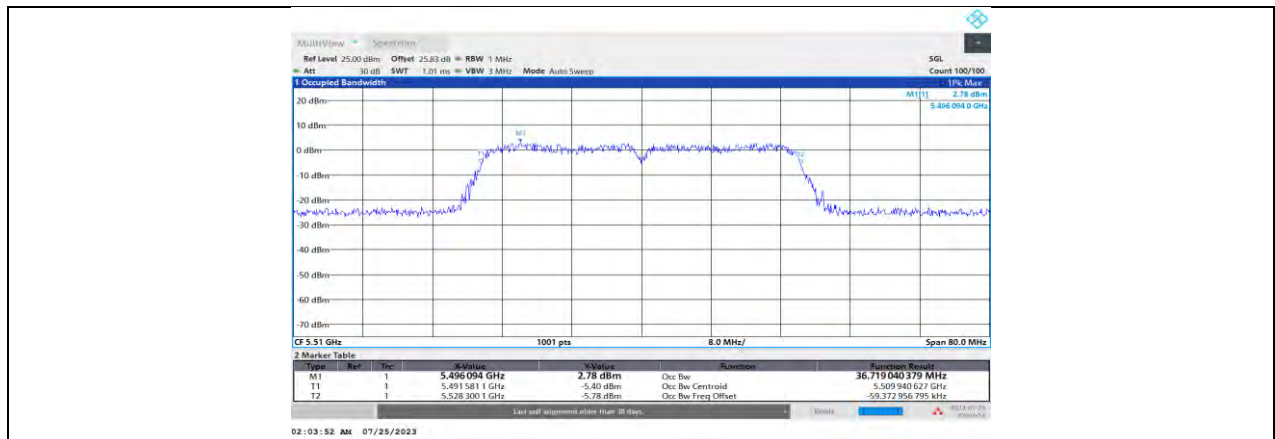
11N40SISO Ant3 5230



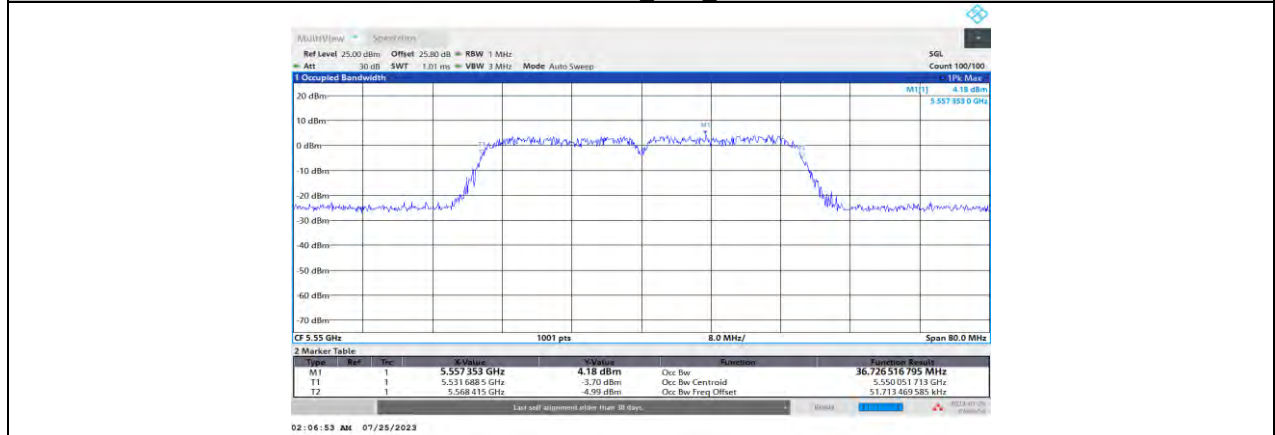
11N40SISO Ant3 5270



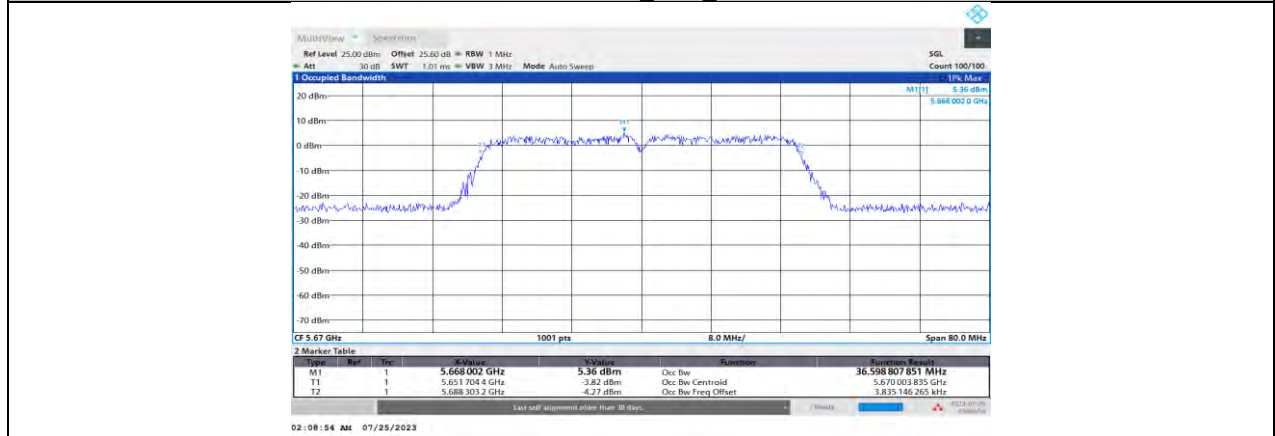
11N40SISO Ant3 5310



11N40SISO\_Ant3\_5510

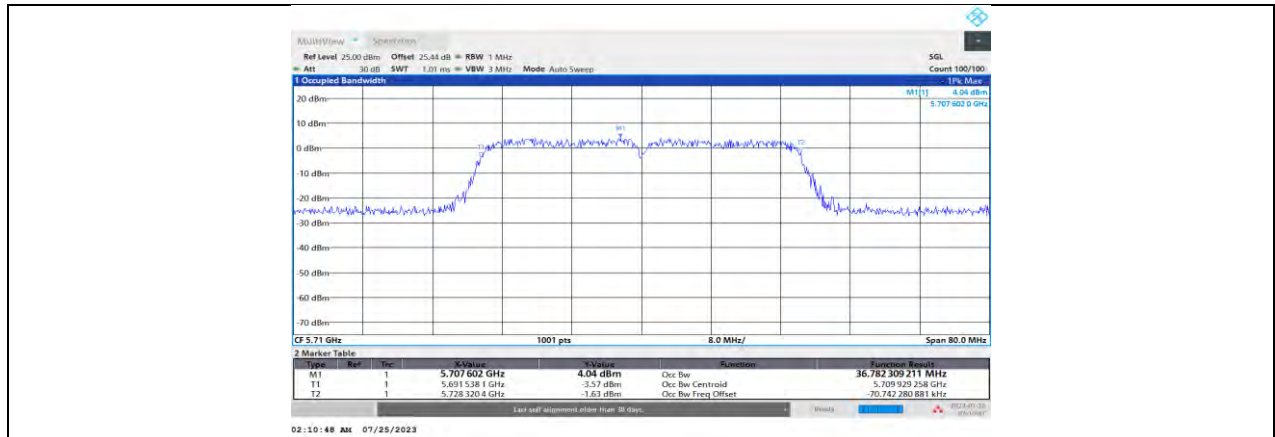


11N40SISO\_Ant3\_5550

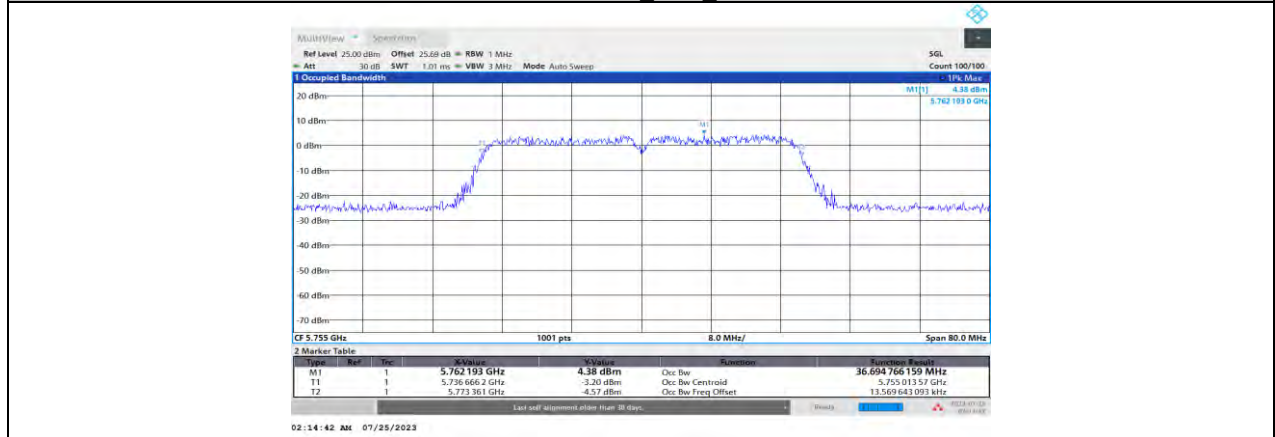


11N40SISO\_Ant3\_5670

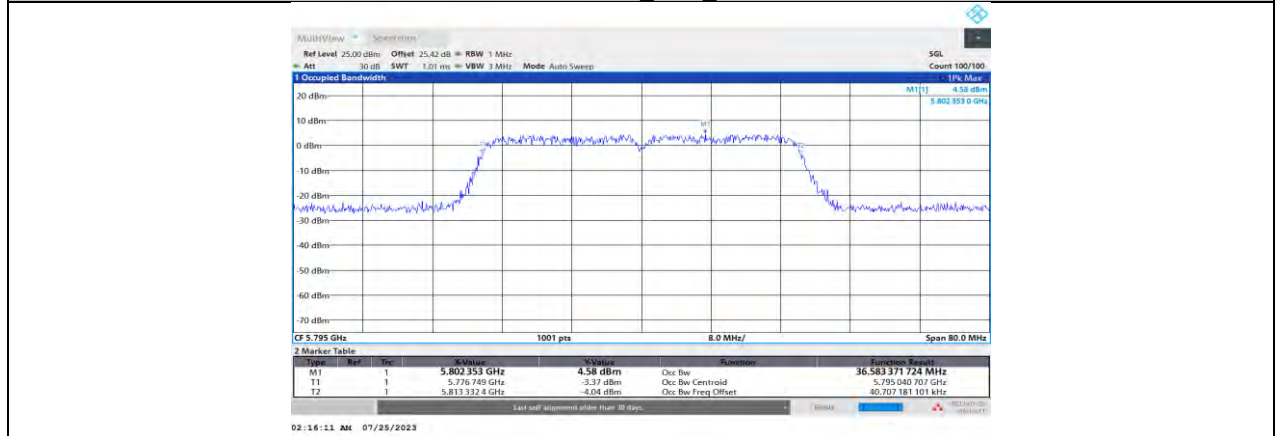




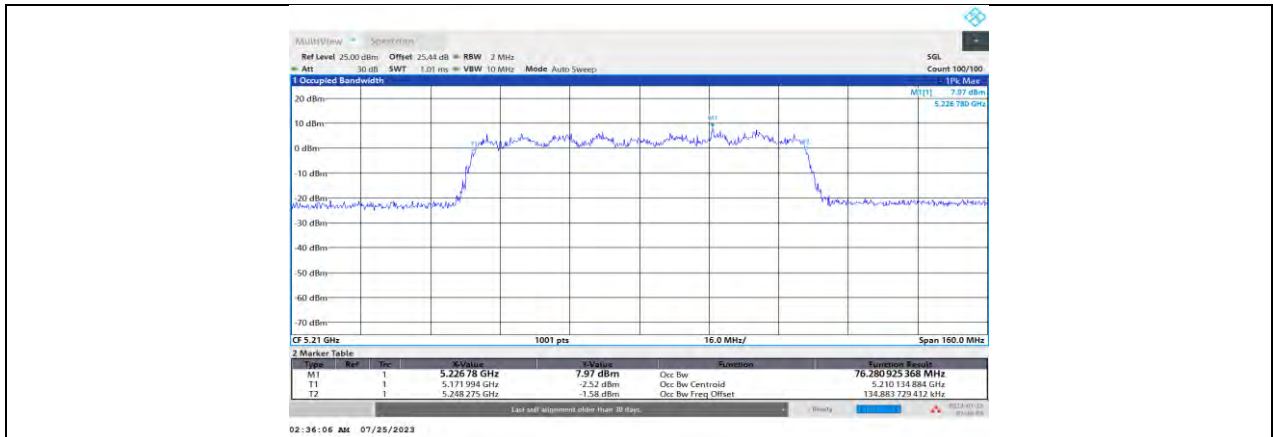
11N40SISO Ant3 5710



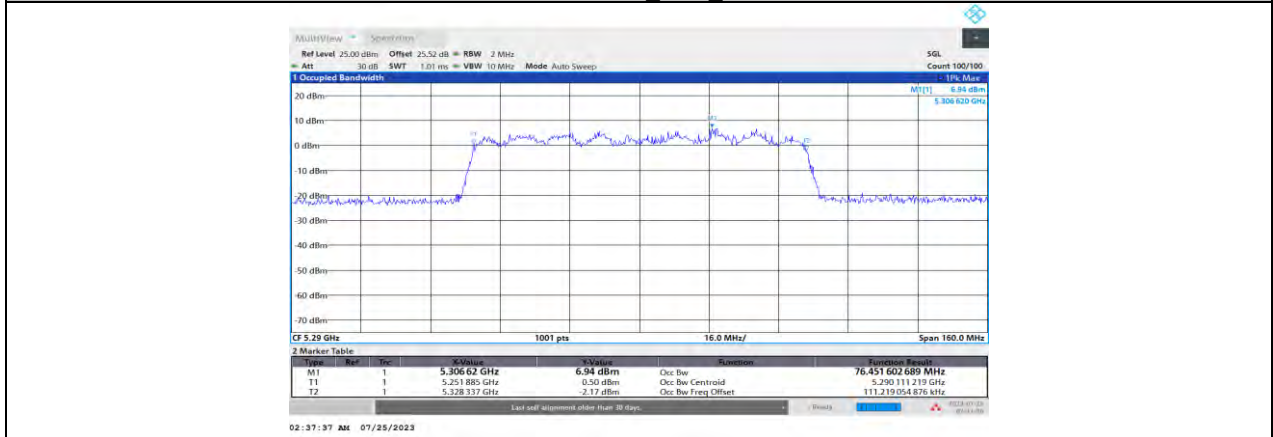
11N40SISO Ant3 5755



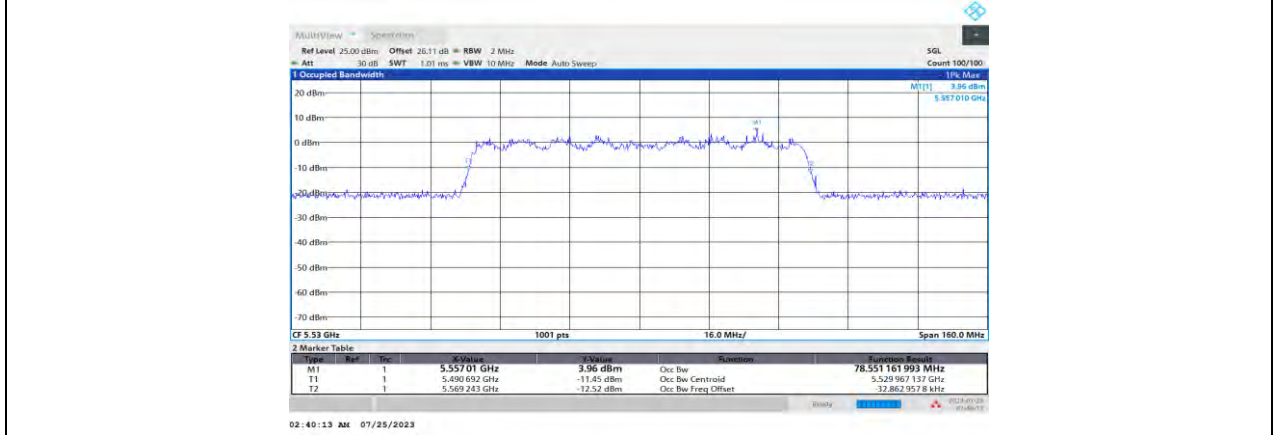
11N40SISO Ant3 5795



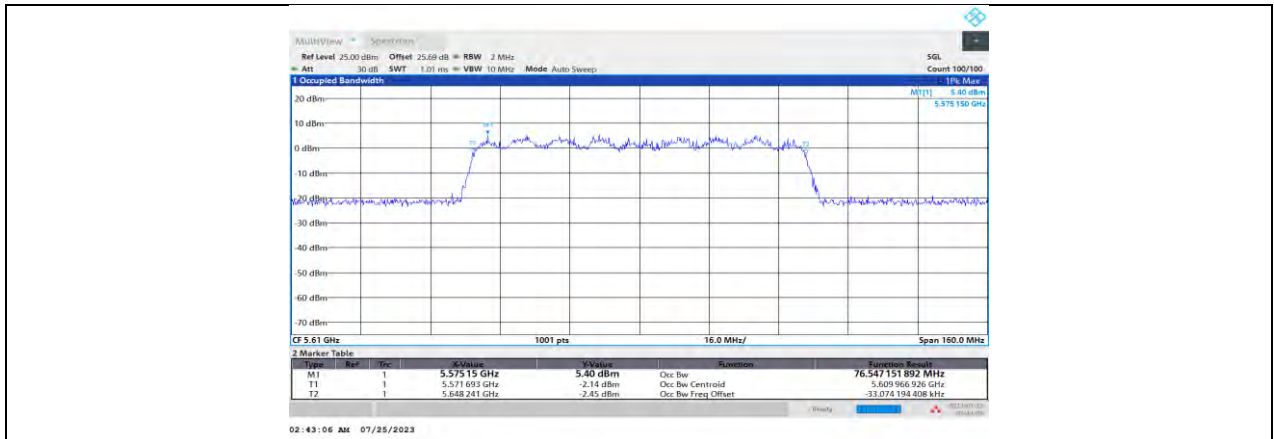
11AC80SISO\_Ant3\_5210



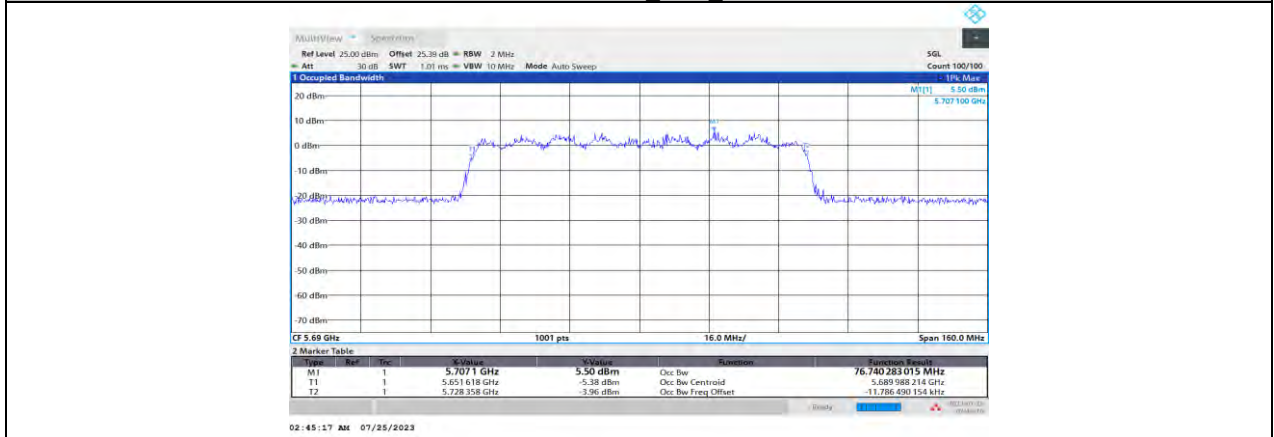
11AC80SISO\_Ant3\_5290



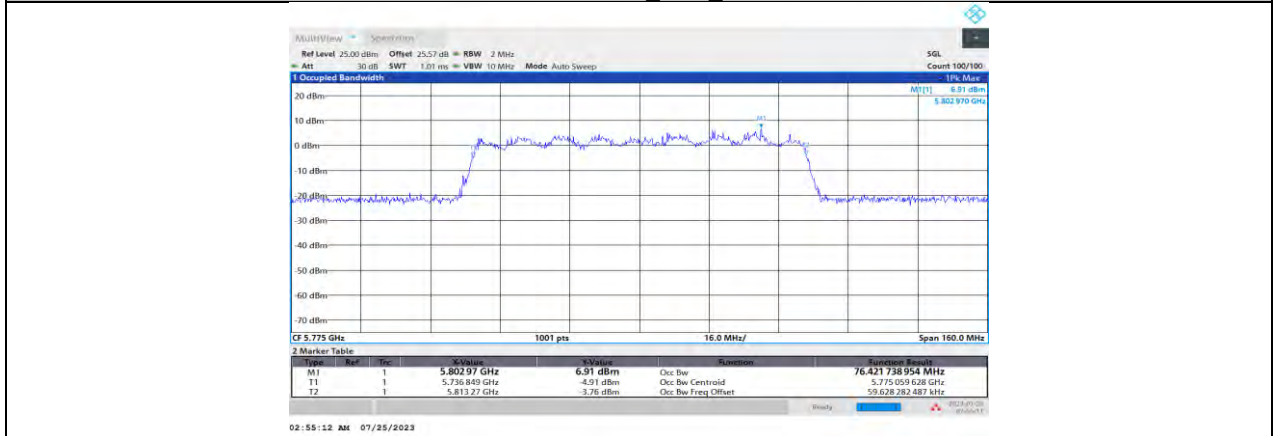
11AC80SISO\_Ant3\_5530



11AC80SISO\_Ant3\_5610



11AC80SISO\_Ant3\_5690



11AC80SISO\_Ant3\_5775

### 11.3. APPENDIX A3: MIN EMISSION BANDWIDTH

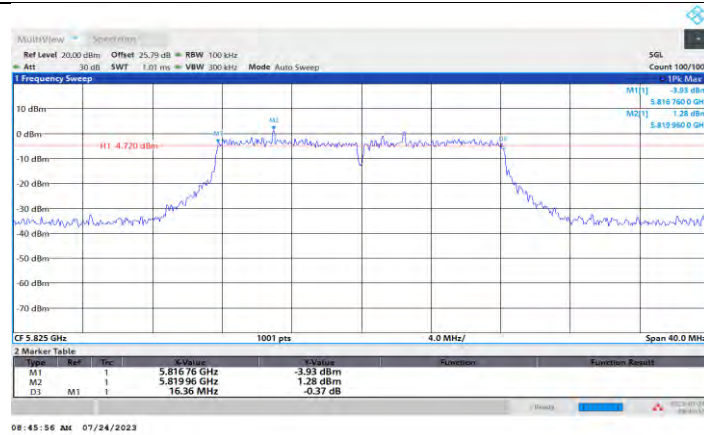
#### 11.3.1. Test Result

Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant3	5720	16.44	5711.72	5728.16	$\geq 0.5$	PASS
		5720_UNII-3	3.16	5725	5728.16	$\geq 0.5$	PASS
		5745	16.32	5736.80	5753.12	$\geq 0.5$	PASS
		5785	16.32	5776.76	5793.08	$\geq 0.5$	PASS
		5825	16.36	5816.76	5833.12	$\geq 0.5$	PASS
11N20SISO	Ant3	5720	17.56	5711.16	5728.72	$\geq 0.5$	PASS
		5720_UNII-3	3.72	5725	5728.72	$\geq 0.5$	PASS
		5745	17.56	5736.16	5753.72	$\geq 0.5$	PASS
		5785	17.32	5776.40	5793.72	$\geq 0.5$	PASS
		5825	17.56	5816.16	5833.72	$\geq 0.5$	PASS
11N40SISO	Ant3	5710	34.72	5692.80	5727.52	$\geq 0.5$	PASS
		5710_UNII-3	2.52	5725	5727.52	$\geq 0.5$	PASS
		5755	35.68	5737.48	5773.16	$\geq 0.5$	PASS
		5795	34.40	5778.12	5812.52	$\geq 0.5$	PASS
11AC80SISO	Ant3	5690	73.28	5654.32	5727.60	$\geq 0.5$	PASS
		5690_UNII-3	2.6	5725	5727.60	$\geq 0.5$	PASS
		5775	73.92	5738.68	5812.60	$\geq 0.5$	PASS

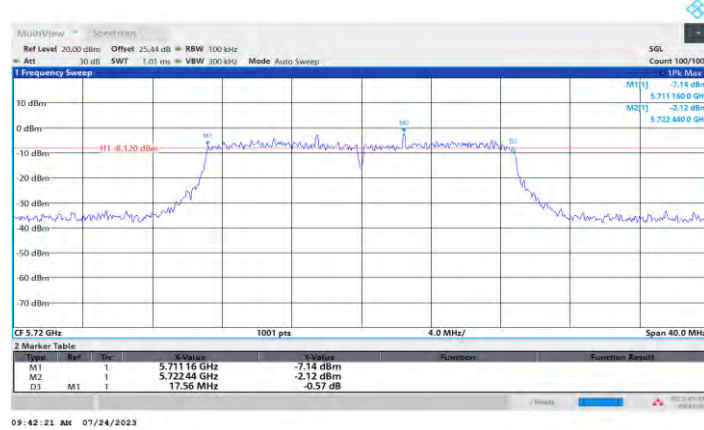


### 11.3.2. Test Graphs

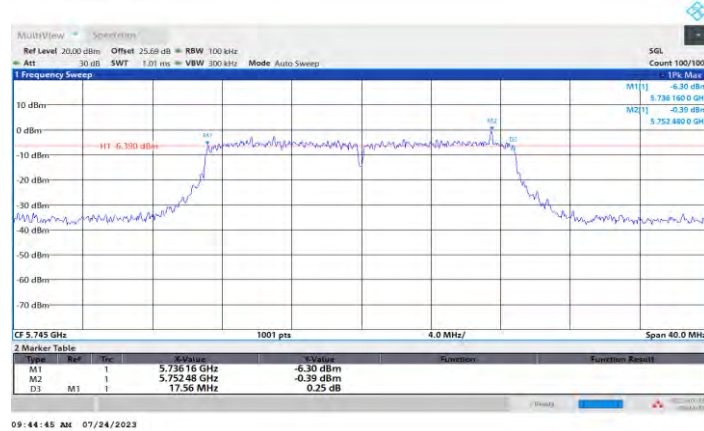




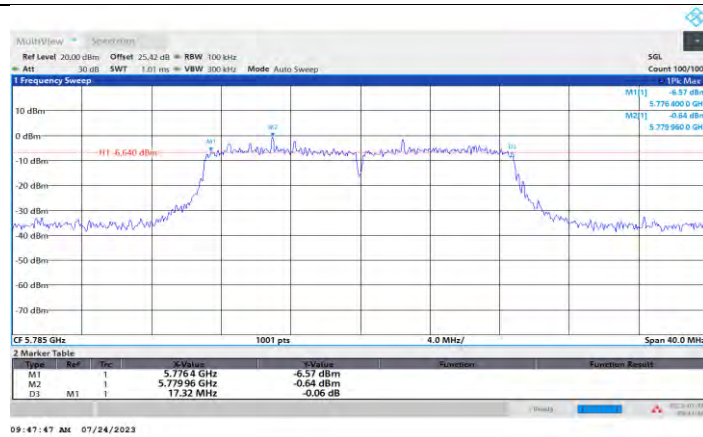
11A Ant3 5825



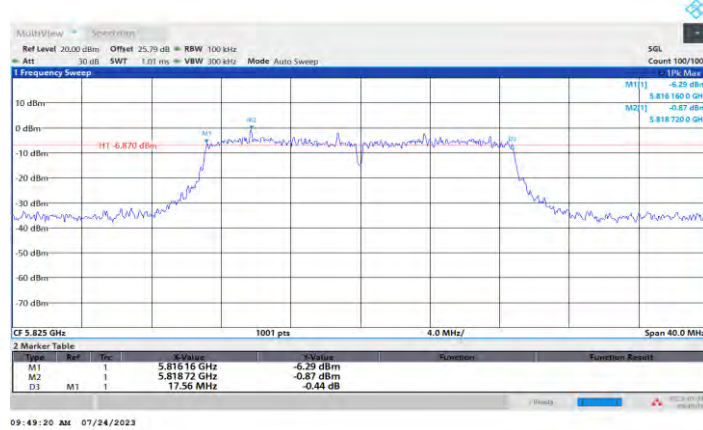
11N20SISO Ant3 5720



11N20SISO Ant3 5745



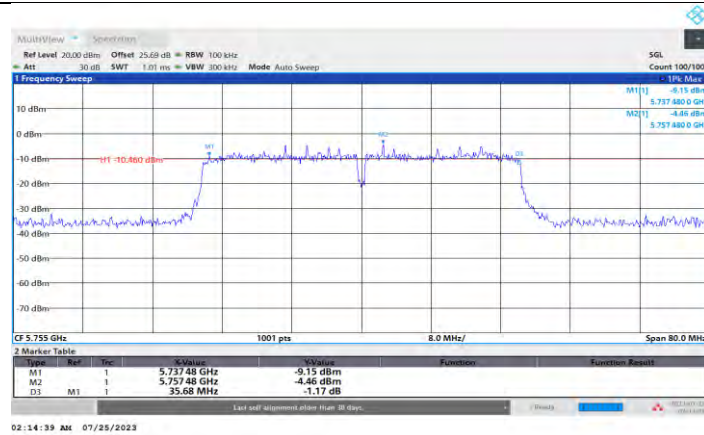
11N20SISO Ant3 5785



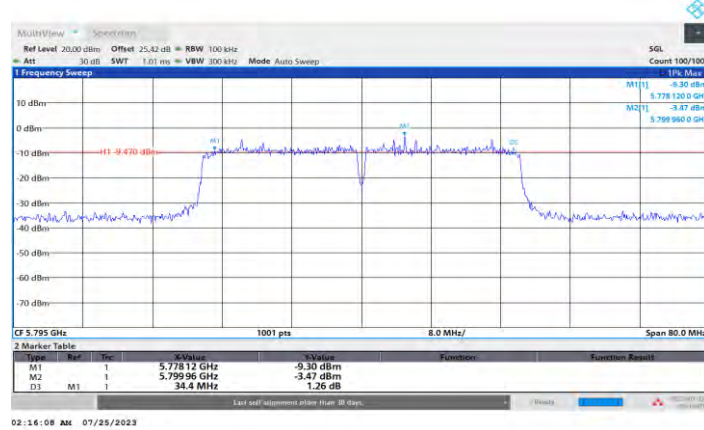
11N20SISO Ant3 5825



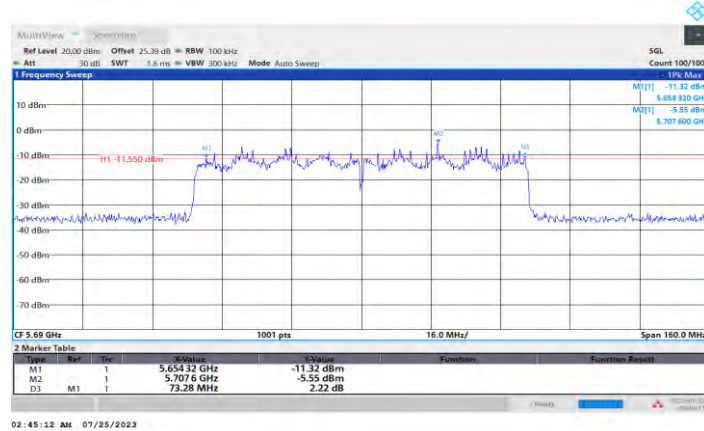
11N40SISO Ant3 5710



11N40SISO\_Ant3\_5755



11N40SISO\_Ant3\_5795



11AC80SISO\_Ant3\_5690





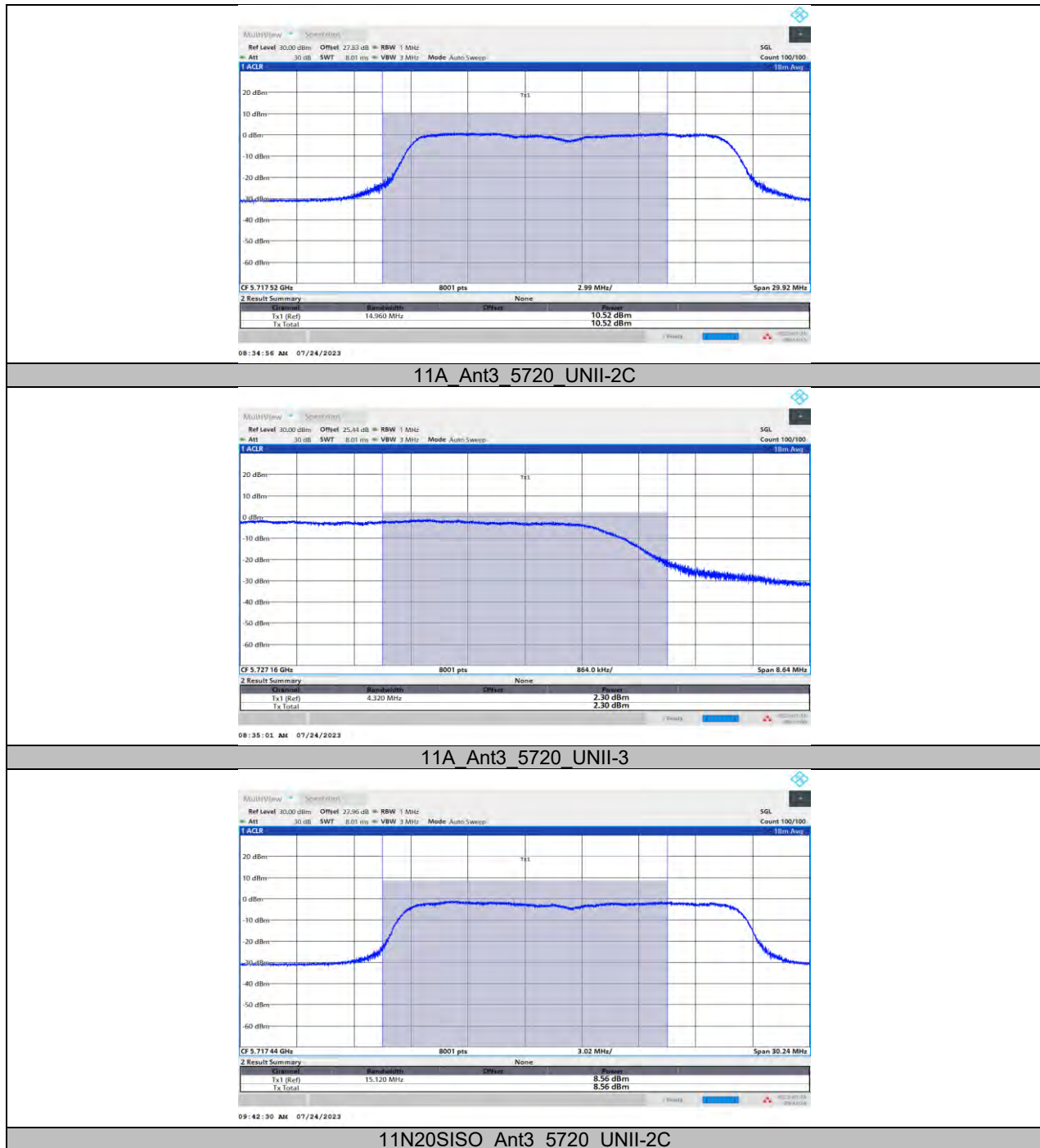
## 11.4. APPENDIX B: MAXIMUM CONDUCTED OUTPUT POWER

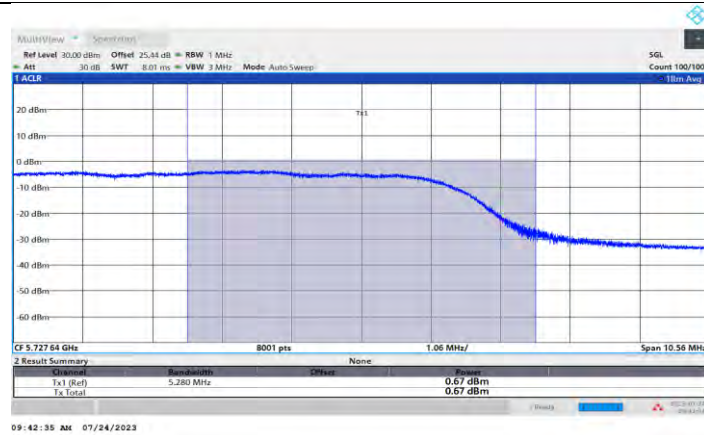
### 11.4.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Power [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant3	5180	12.17	≤23.98	---	17.12	≤22.30	PASS
		5200	12.67	≤23.98	---	17.62	≤22.25	PASS
		5240	12.55	≤23.98	---	17.50	≤22.36	PASS
		5260	12.11	≤23.97	≤23.37	17.06	≤29.37	PASS
		5280	12.44	≤23.98	≤23.36	17.39	≤29.36	PASS
		5320	12.25	≤23.98	≤23.37	17.20	≤29.37	PASS
		5500	12.04	≤23.98	≤23.37	16.99	≤29.37	PASS
		5580	12.19	≤23.86	≤23.37	17.14	≤29.37	PASS
		5700	12.41	≤23.91	≤23.37	17.36	≤29.37	PASS
		5720 UNII-2C	10.52	≤22.75	≤22.37	15.47	≤28.37	PASS
		5720 UNII-3	2.30	≤30.00	≤30.00	7.25	---	PASS
		5745	12.60	≤30.00	≤30.00	17.55	---	PASS
		5785	12.33	≤30.00	≤30.00	17.28	---	PASS
		5825	12.58	≤30.00	≤30.00	17.53	---	PASS
11N20SISO	Ant3	5180	10.50	≤23.98	---	15.45	≤22.60	PASS
		5200	10.37	≤23.98	---	15.32	≤22.59	PASS
		5240	10.57	≤23.98	---	15.52	≤22.59	PASS
		5260	10.18	≤23.98	≤23.60	15.13	≤29.60	PASS
		5280	10.45	≤23.98	≤23.59	15.40	≤29.59	PASS
		5320	10.19	≤23.98	≤23.60	15.14	≤29.60	PASS
		5500	10.19	≤23.98	≤23.60	15.14	≤29.60	PASS
		5580	10.44	≤23.98	≤23.58	15.39	≤29.58	PASS
		5700	10.57	≤23.98	≤23.58	15.52	≤29.58	PASS
		5720 UNII-2C	8.56	≤22.80	≤22.51	13.51	≤28.51	PASS
		5720 UNII-3	0.67	≤30.00	≤30.00	5.62	---	PASS
		5745	10.80	≤30.00	≤30.00	15.75	---	PASS
		5785	10.47	≤30.00	≤30.00	15.42	---	PASS
		5825	10.87	≤30.00	≤30.00	15.82	---	PASS
11N40SISO	Ant3	5190	10.47	≤23.98	---	15.42	≤23.00	PASS
		5230	10.07	≤23.98	---	15.02	≤23.00	PASS
		5270	10.25	≤23.98	≤23.98	15.20	≤29.98	PASS
		5310	10.42	≤23.98	≤23.98	15.37	≤29.98	PASS
		5510	10.38	≤23.98	≤23.98	15.33	≤29.98	PASS
		5550	10.43	≤23.98	≤23.98	15.38	≤29.98	PASS
		5670	10.75	≤23.98	≤23.98	15.70	≤29.98	PASS
		5710 UNII-2C	10.19	≤23.98	≤23.98	15.14	≤29.98	PASS
		5710 UNII-3	-4.74	≤30.00	≤30.00	0.21	---	PASS
		5755	10.38	≤30.00	≤30.00	15.33	---	PASS
		5795	10.87	≤30.00	≤30.00	15.82	---	PASS
11AC80SISO	Ant3	5210	10.39	≤23.98	---	15.34	≤23.00	PASS
		5290	10.10	≤23.98	≤23.98	15.05	≤29.98	PASS
		5530	10.25	≤23.98	≤23.98	15.20	≤29.98	PASS
		5610	10.45	≤23.98	≤23.98	15.40	≤29.98	PASS
		5690 UNII-2C	9.86	≤23.98	≤23.98	14.81	≤29.98	PASS
		5690 UNII-3	-10.34	≤30.00	≤30.00	-5.39	---	PASS
		5775	10.39	≤30.00	≤30.00	15.34	---	PASS

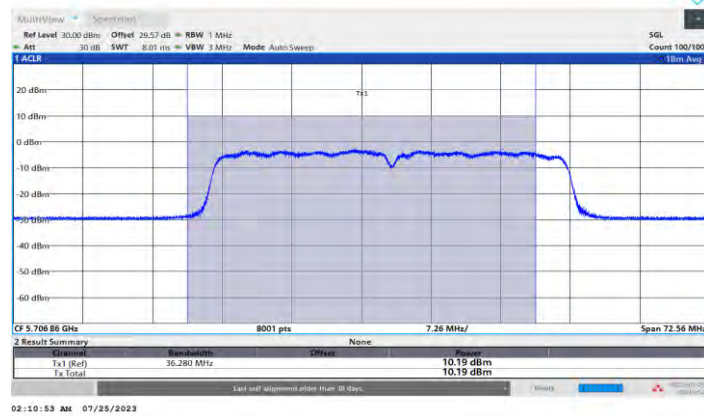
Note: The Duty Cycle Factor is compensated in the graph.

## 11.4.2. Test Graphs

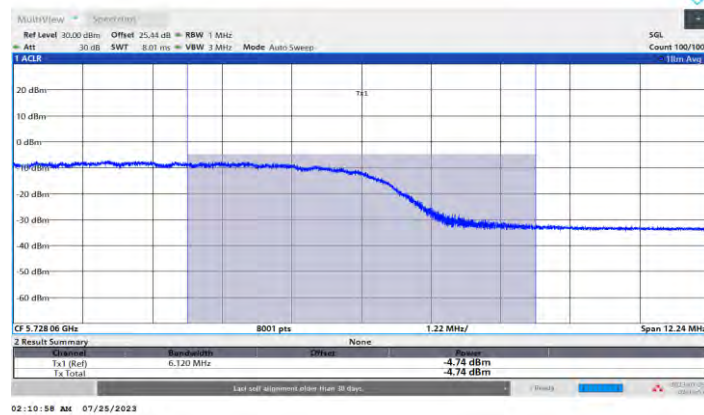




11N20SISO\_Ant3\_5720\_UNII-3

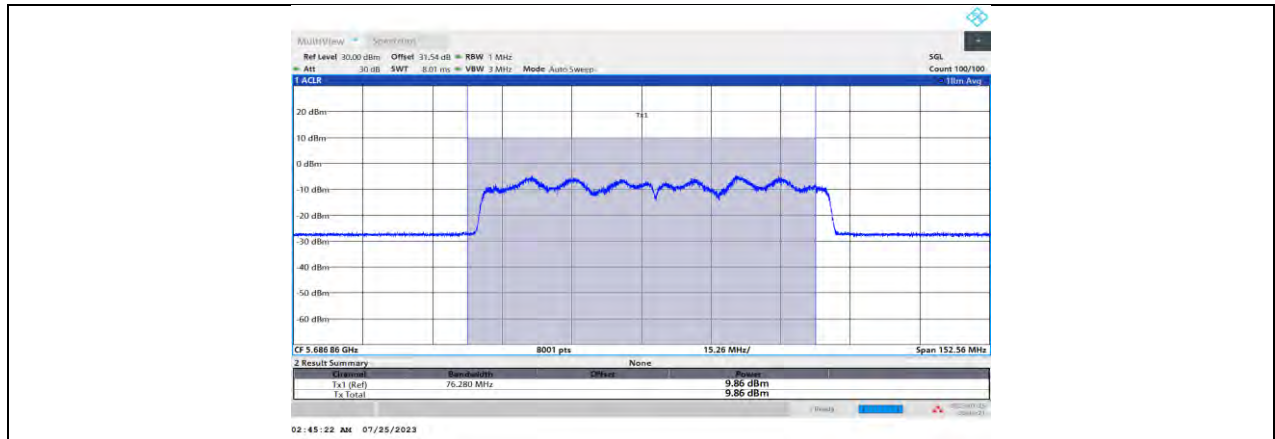


11N40SISO\_Ant3\_5710\_UNII-2C

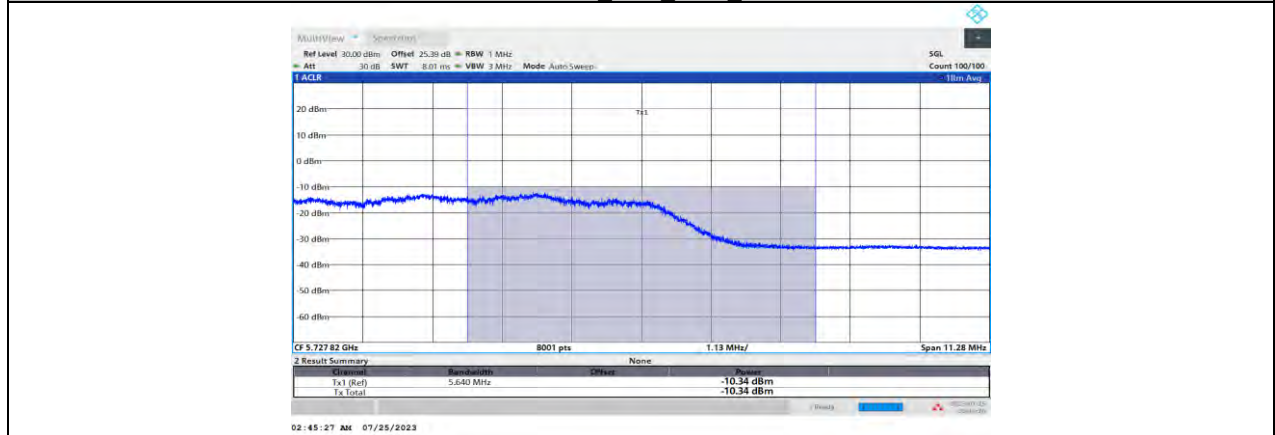


11N40SISO\_Ant3\_5710\_UNII-3





11AC80SISO\_Ant3\_5690\_UNII-2C



11AC80SISO\_Ant3\_5690\_UNII-3

## 11.5. APPENDIX C: MAXIMUM POWER SPECTRAL DENSITY

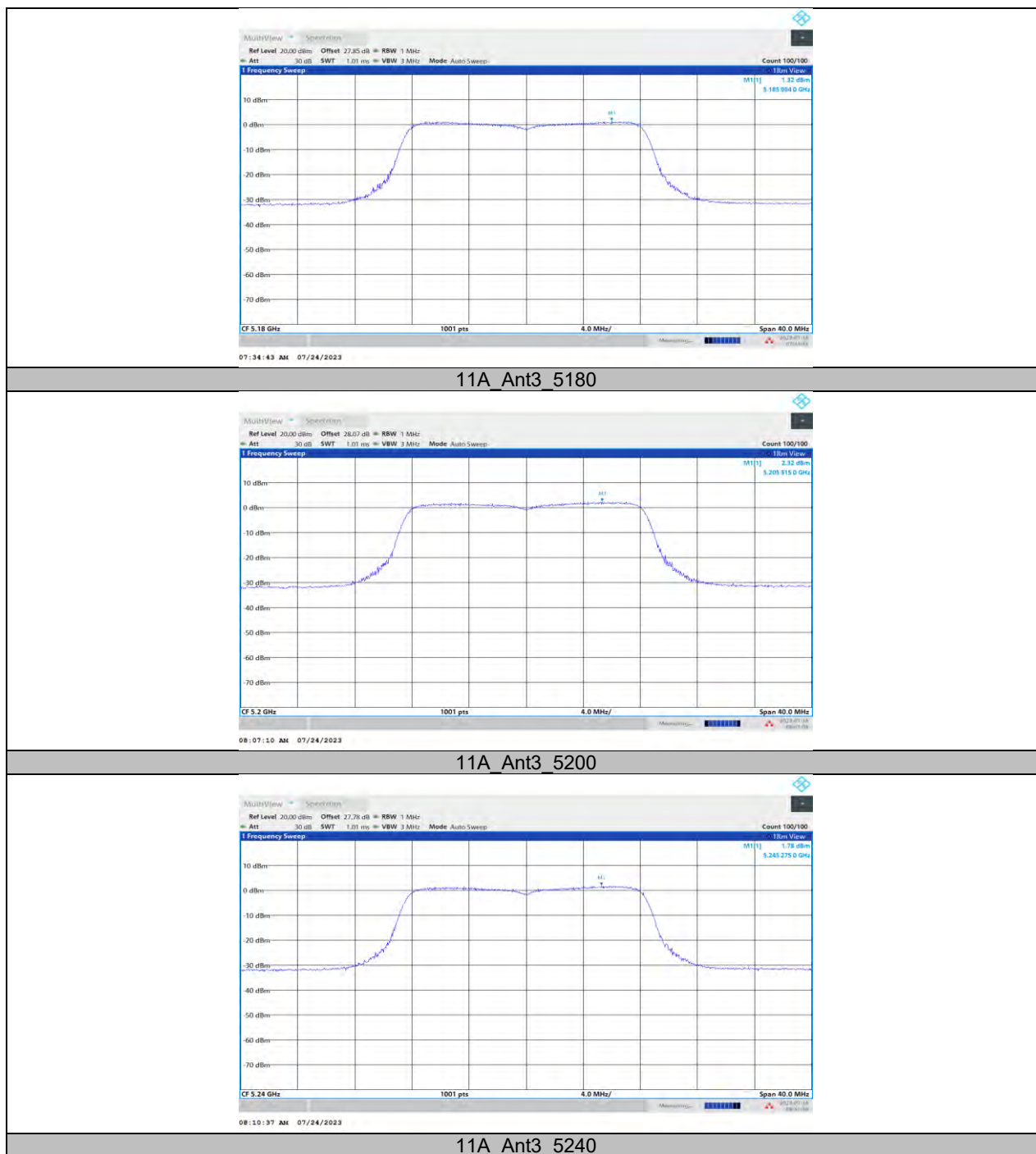
### 11.5.1. Test Result

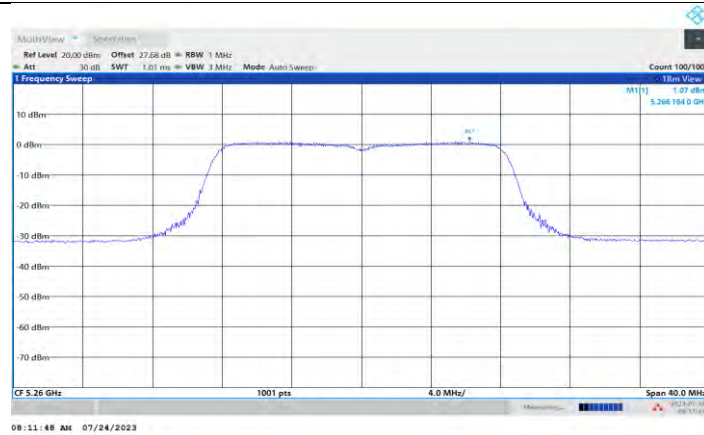
Test Mode	Antenna	Frequency[MHz]	Power [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant3	5180	1.32	≤11.00	6.27	≤10.00	PASS
		5200	2.32	≤11.00	7.27	≤10.00	PASS
		5240	1.78	≤11.00	6.73	≤10.00	PASS
		5260	1.07	≤11.00	6.02	---	PASS
		5280	0.82	≤11.00	5.77	---	PASS
		5320	1.4	≤11.00	6.35	---	PASS
		5500	1.41	≤11.00	6.36	---	PASS
		5580	1.01	≤11.00	5.96	---	PASS
		5700	1.5	≤11.00	6.45	---	PASS
		5720 UNII-2C	0.63	≤11.00	5.58	---	PASS
		5720 UNII-3	-2.36	≤30.00	2.59	---	PASS
		5745	-1.28	≤30.00	3.67	---	PASS
		5785	-1.32	≤30.00	3.63	---	PASS
		5825	-0.99	≤30.00	3.96	---	PASS
11N20SISO	Ant3	5180	-0.4	≤11.00	4.55	≤10.00	PASS
		5200	-0.71	≤11.00	4.24	≤10.00	PASS
		5240	-0.48	≤11.00	4.47	≤10.00	PASS
		5260	-0.57	≤11.00	4.38	---	PASS
		5280	-0.95	≤11.00	4.00	---	PASS
		5320	-1.19	≤11.00	3.76	---	PASS
		5500	-0.8	≤11.00	4.15	---	PASS
		5580	-0.97	≤11.00	3.98	---	PASS
		5700	-0.38	≤11.00	4.57	---	PASS
		5720 UNII-2C	-1.24	≤11.00	3.71	---	PASS
		5720 UNII-3	-4.16	≤30.00	0.79	---	PASS
		5745	-2.98	≤30.00	1.97	---	PASS
		5785	-3.58	≤30.00	1.37	---	PASS
		5825	-3.16	≤30.00	1.79	---	PASS
11N40SISO	Ant3	5190	-4.11	≤11.00	0.84	≤10.00	PASS
		5230	-2.33	≤11.00	2.62	≤10.00	PASS
		5270	-3.59	≤11.00	1.36	---	PASS
		5310	-2.32	≤11.00	2.63	---	PASS
		5510	-3.5	≤11.00	1.45	---	PASS
		5550	-3.31	≤11.00	1.64	---	PASS
		5670	-2.78	≤11.00	2.17	---	PASS
		5710 UNII-2C	-2.93	≤11.00	2.02	---	PASS
		5710 UNII-3	-5.75	≤30.00	-0.80	---	PASS
		5755	-6.44	≤30.00	-1.49	---	PASS
		5795	-5.4	≤30.00	-0.45	---	PASS
11AC80SISO	Ant3	5210	-4.84	≤11.00	0.11	≤10.00	PASS
		5290	-5.86	≤11.00	-0.91	---	PASS
		5530	-5.9	≤11.00	-0.95	---	PASS
		5610	-5.27	≤11.00	-0.32	---	PASS
		5690 UNII-2C	-5.67	≤11.00	-0.72	---	PASS
		5690 UNII-3	-10.05	≤30.00	-5.10	---	PASS
		5775	-7.72	≤30.00	-2.77	---	PASS

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

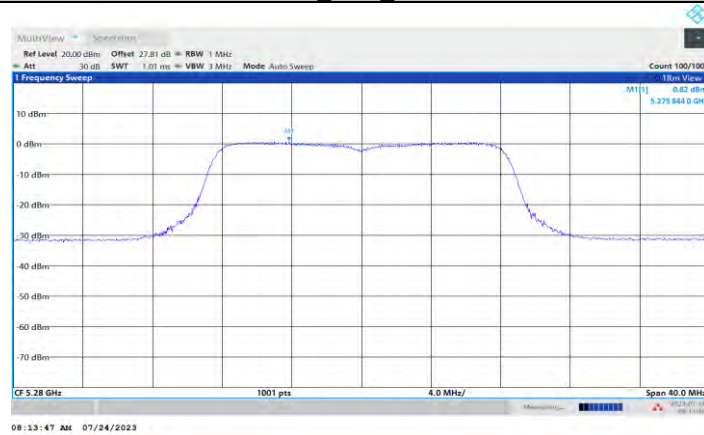
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

## 11.5.2. Test Graphs

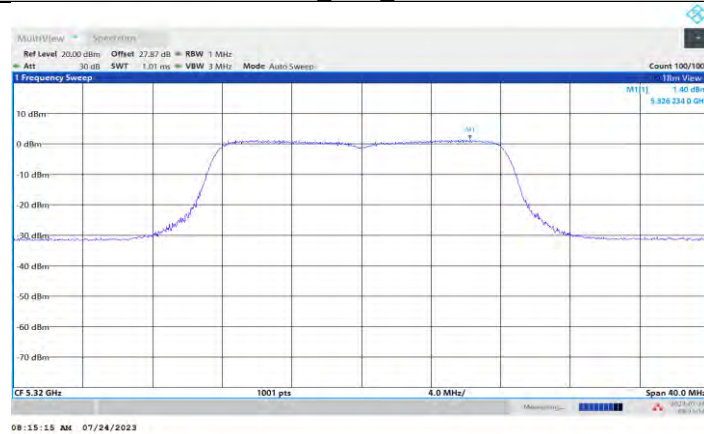




11A\_Ant3\_5260

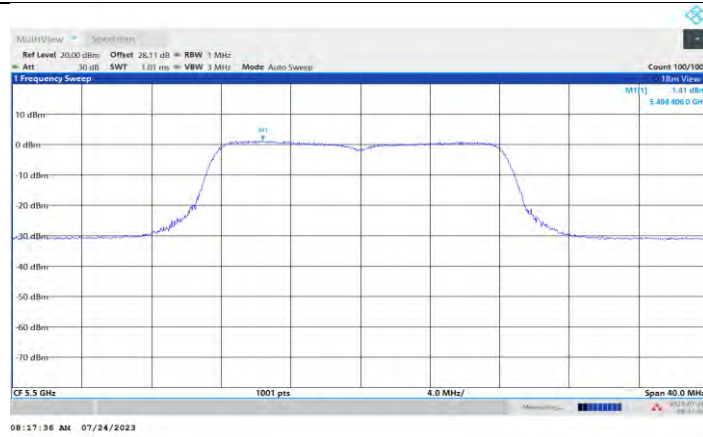


11A\_Ant3\_5280

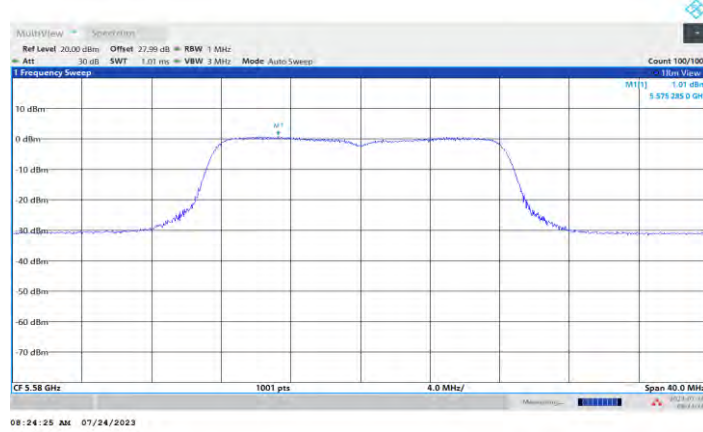


11A\_Ant3\_5320

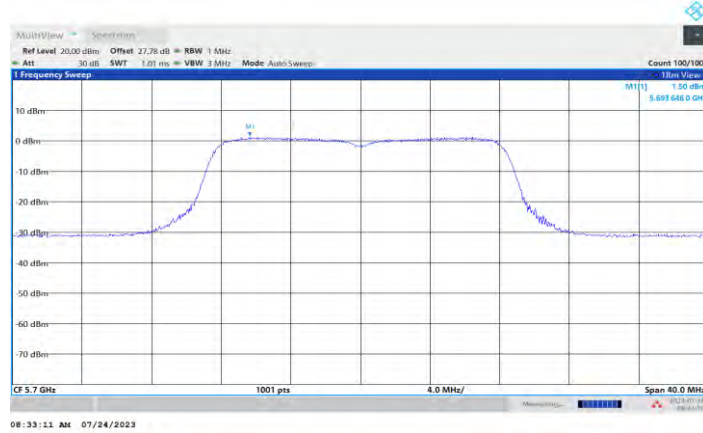




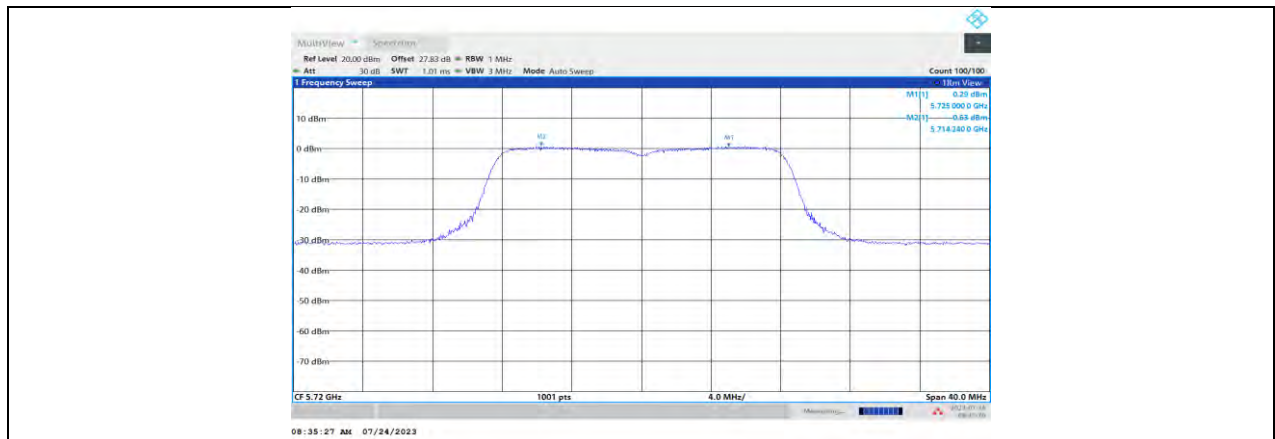
11A\_Ant3\_5500



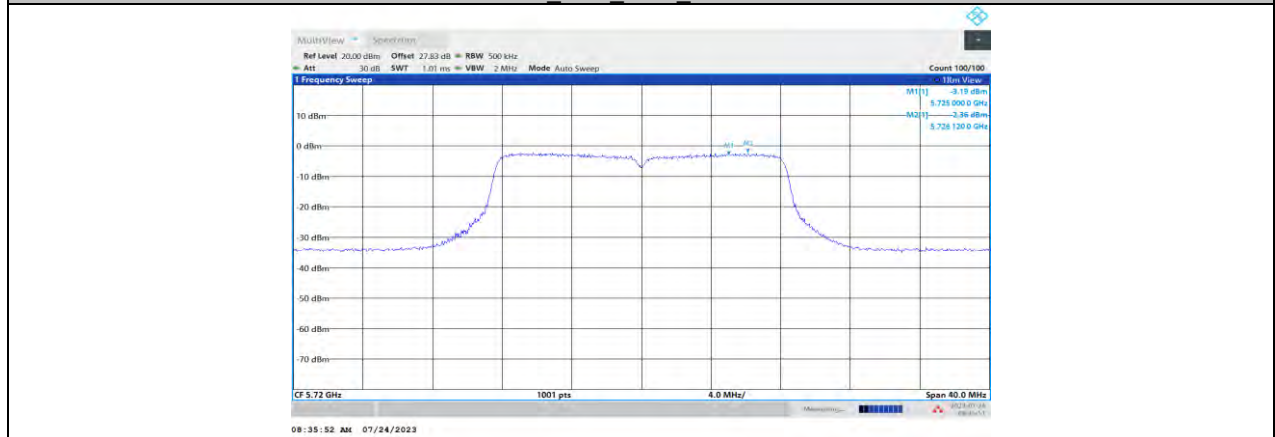
11A\_Ant3\_5580



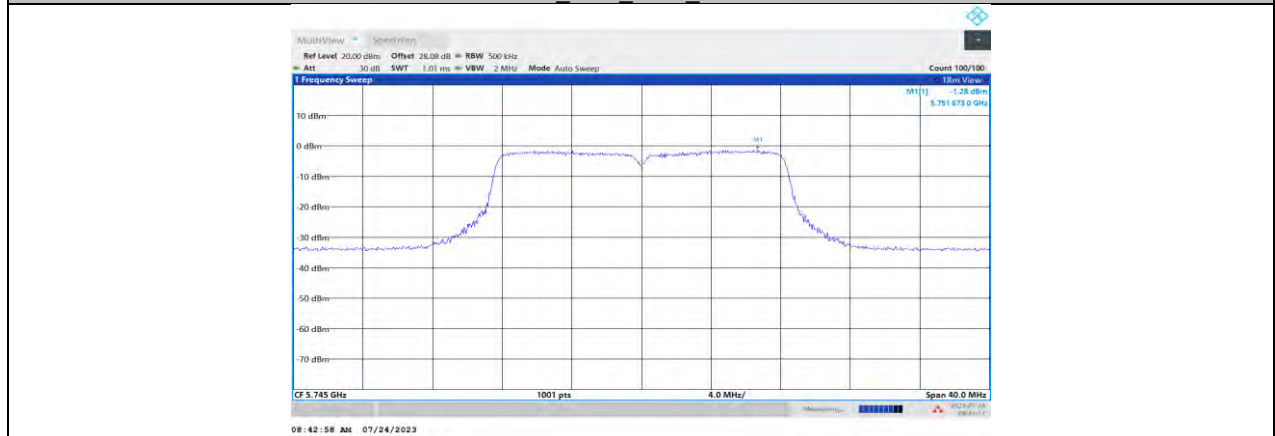
11A\_Ant3\_5700



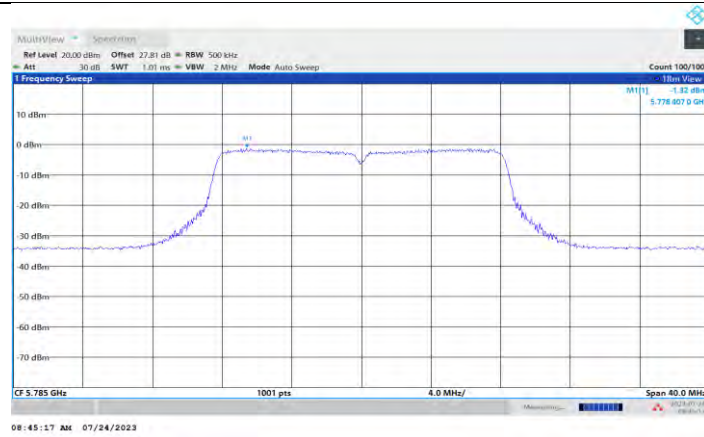
11A\_Ant3\_5720\_UNII-2C



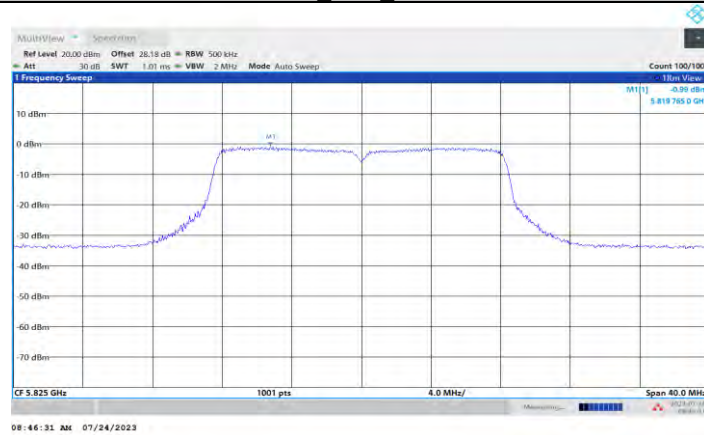
11A\_Ant3\_5720\_UNII-3



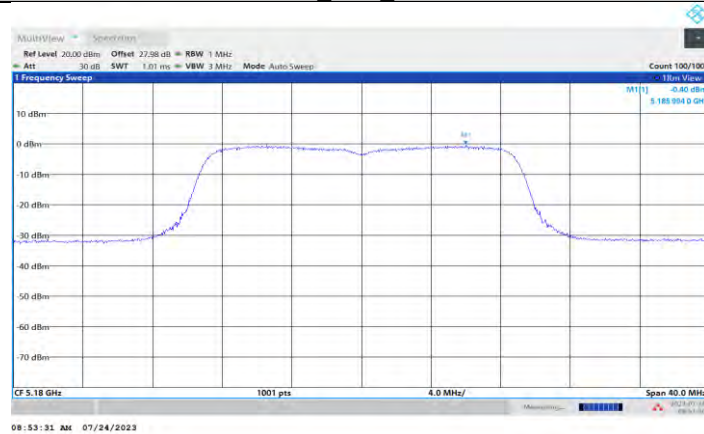
11A\_Ant3\_5745



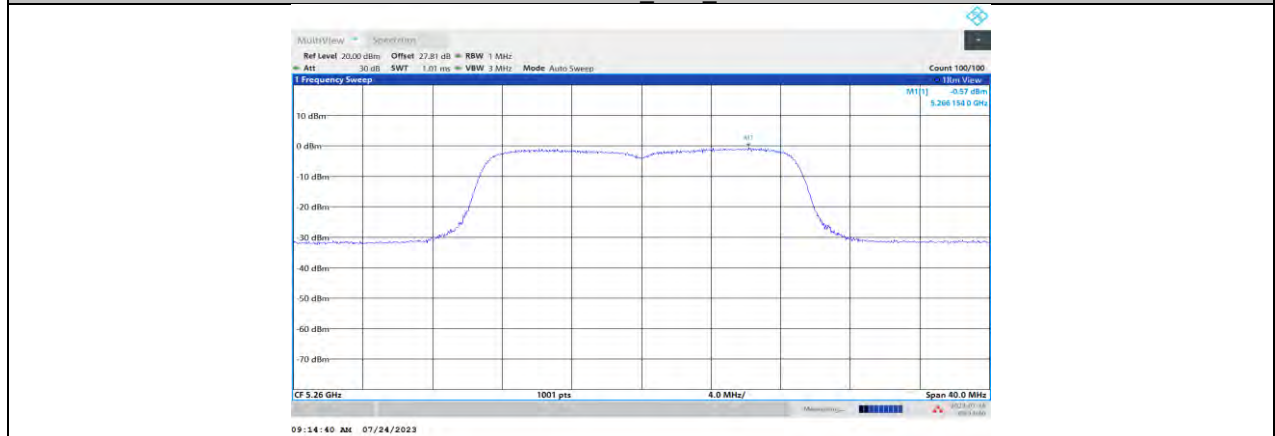
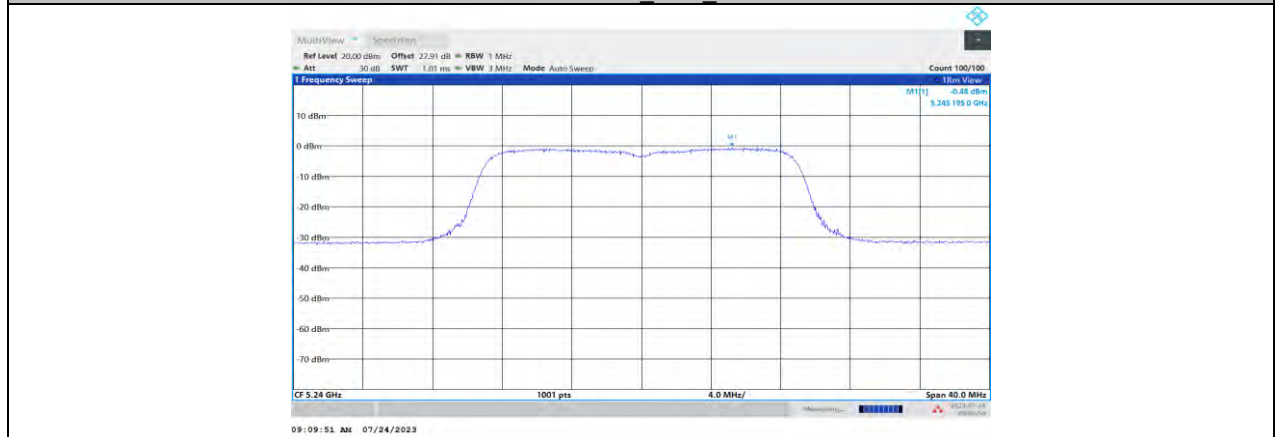
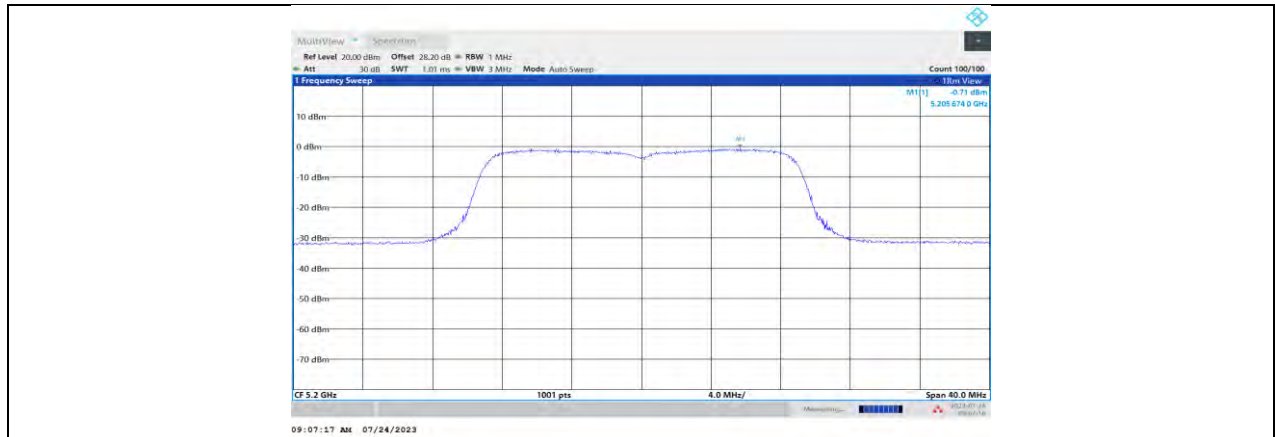
11A\_Ant3\_5785

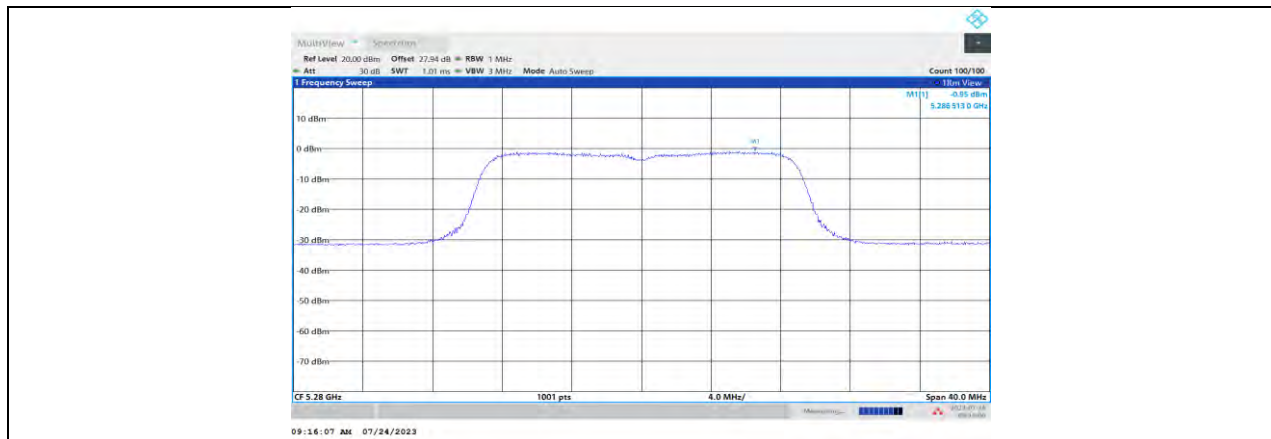


11A\_Ant3\_5825

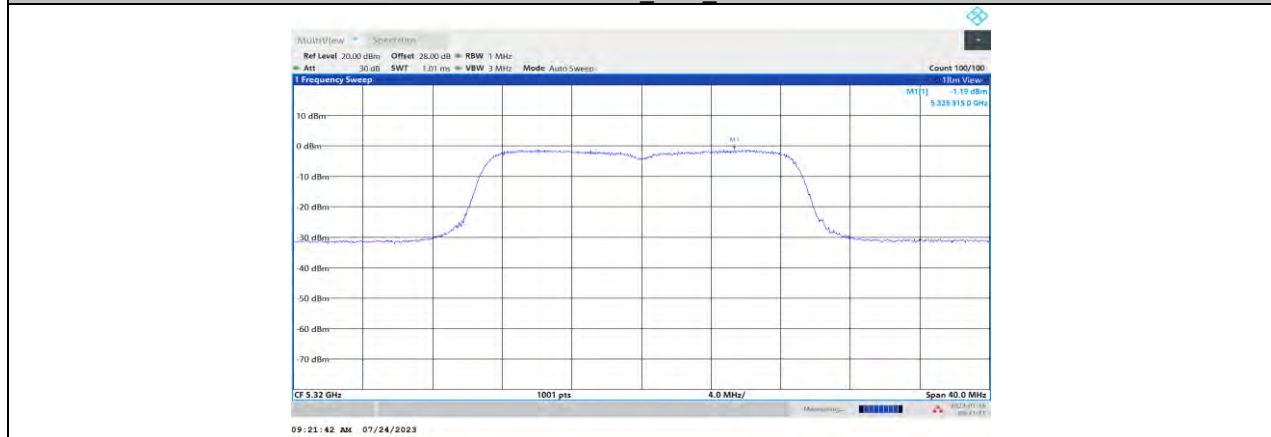


11N20SISO\_Ant3\_5180

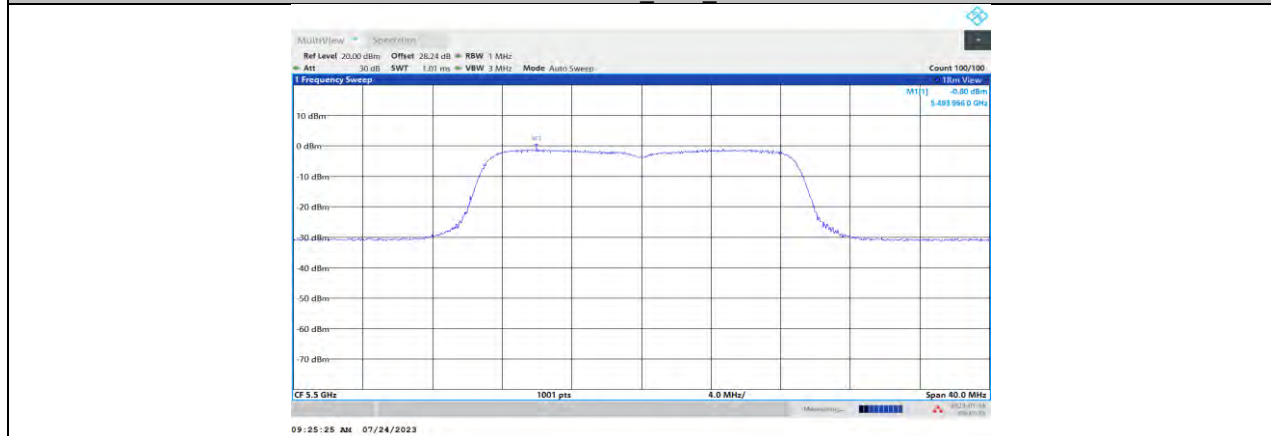




11N20SISO\_Ant3\_5280

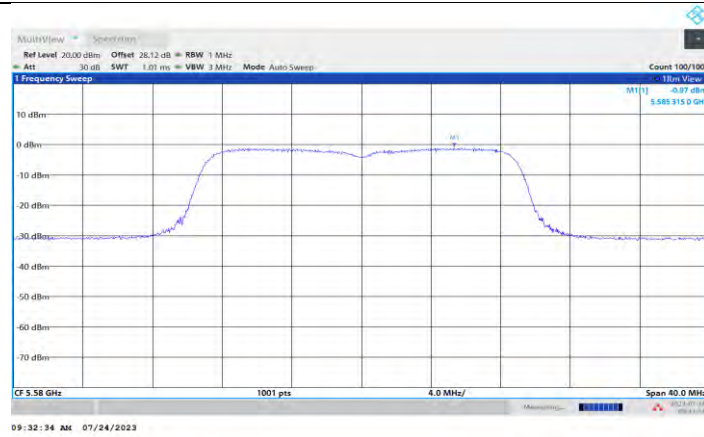


11N20SISO\_Ant3\_5320

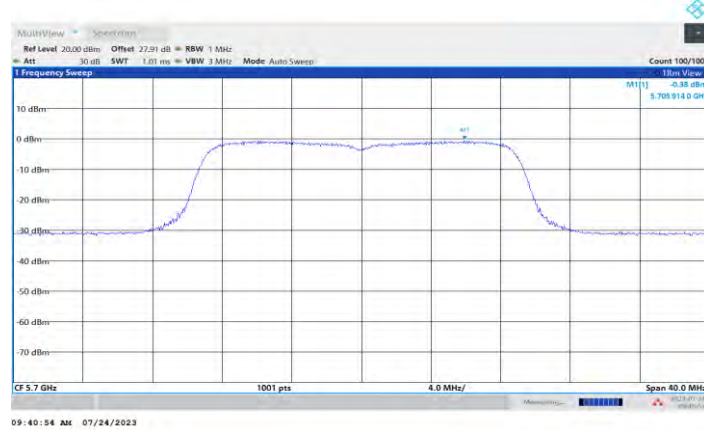


11N20SISO\_Ant3\_5500

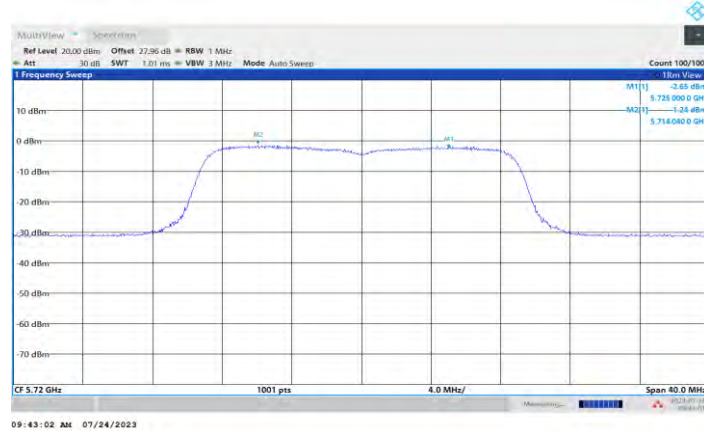




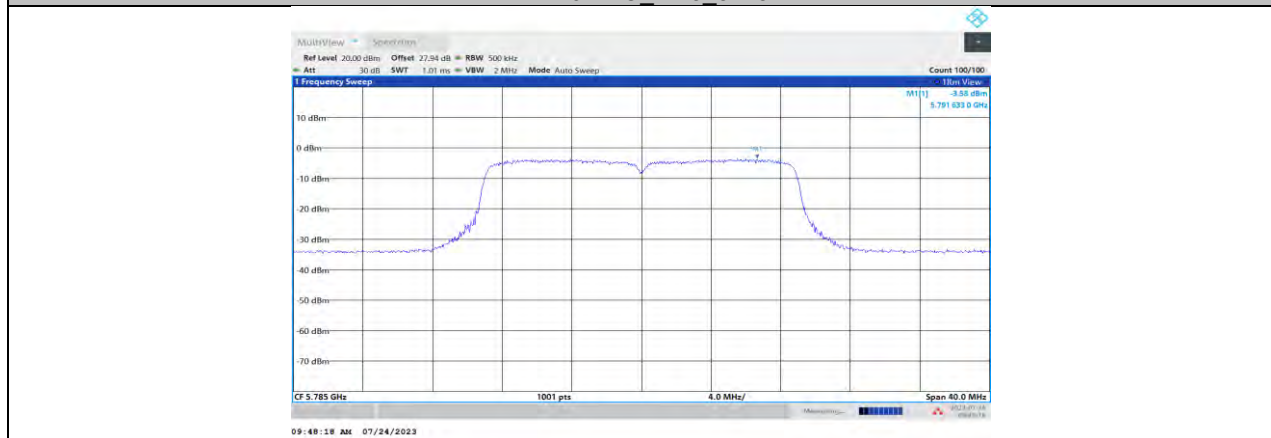
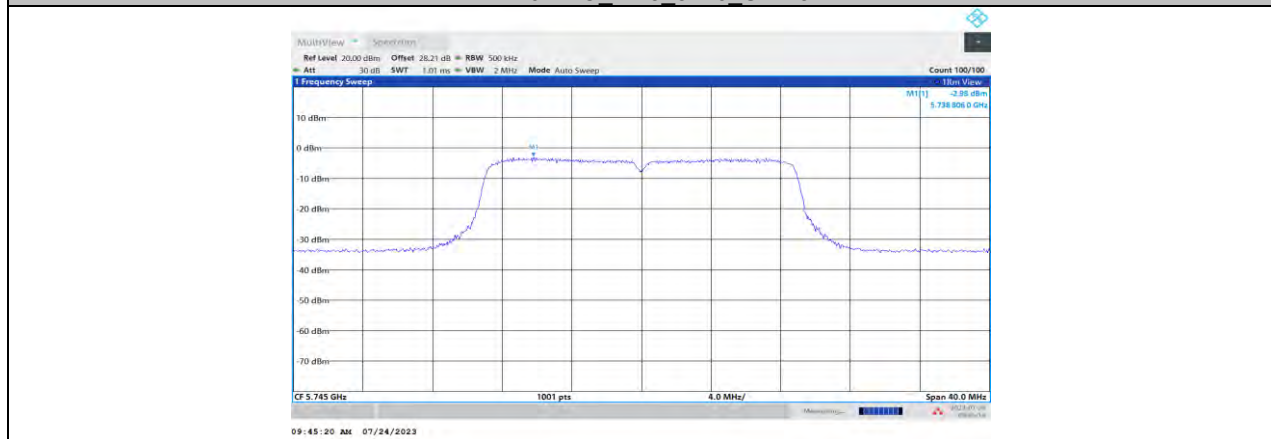
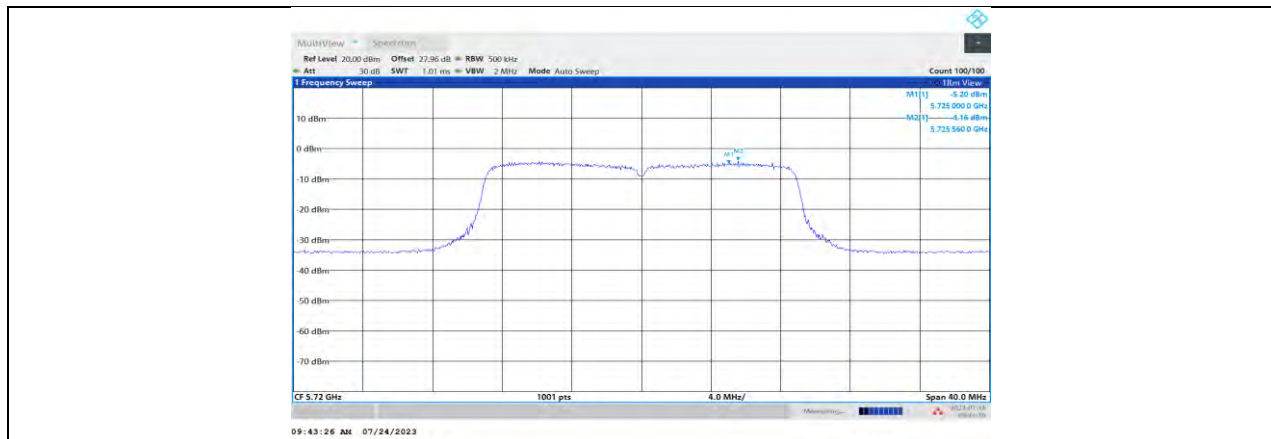
11N20SISO\_Ant3\_5580

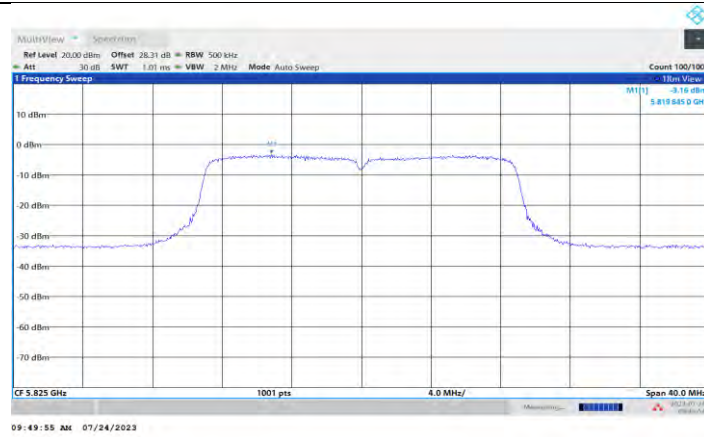


11N20SISO\_Ant3\_5700

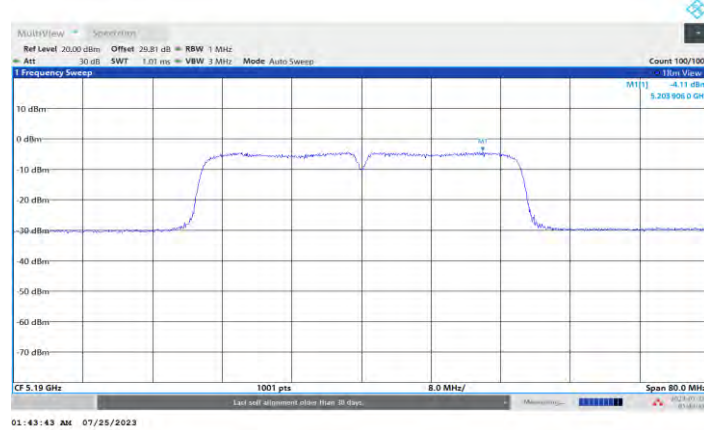


11N20SISO\_Ant3\_5720\_UNII-2C

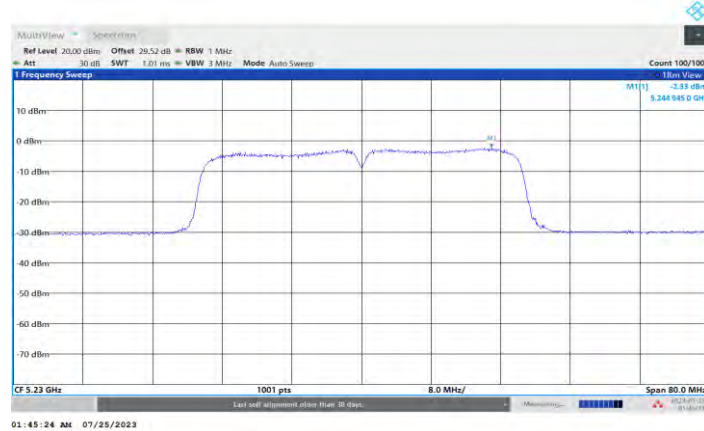




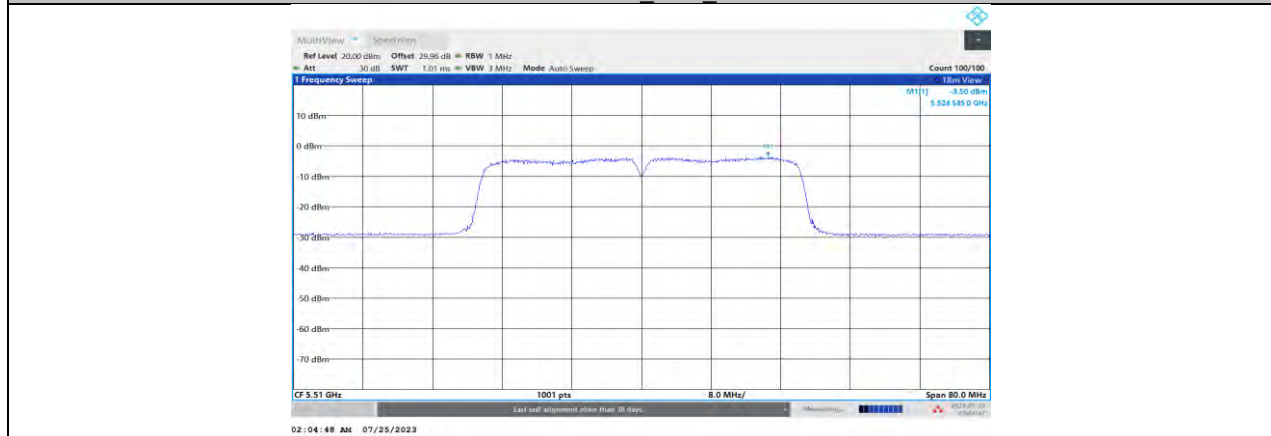
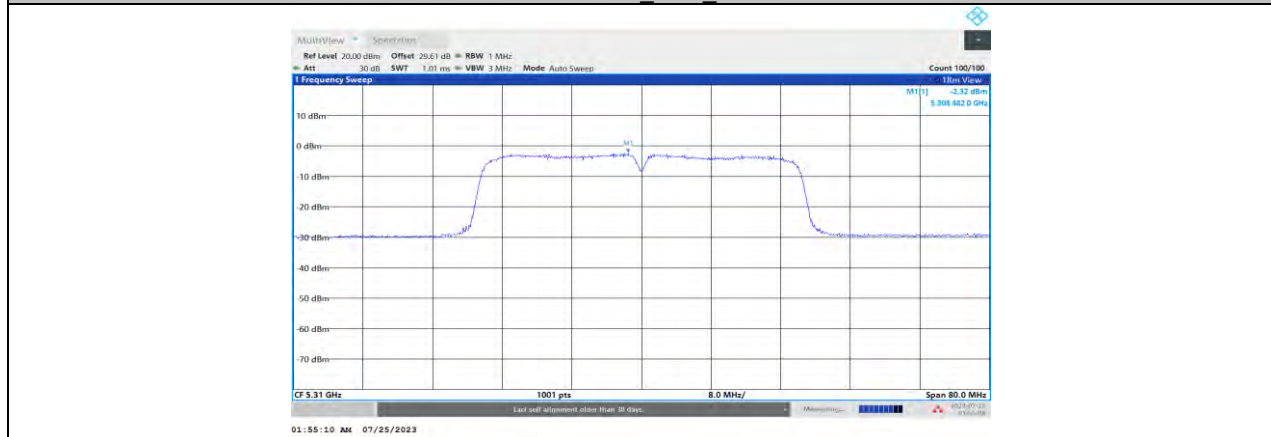
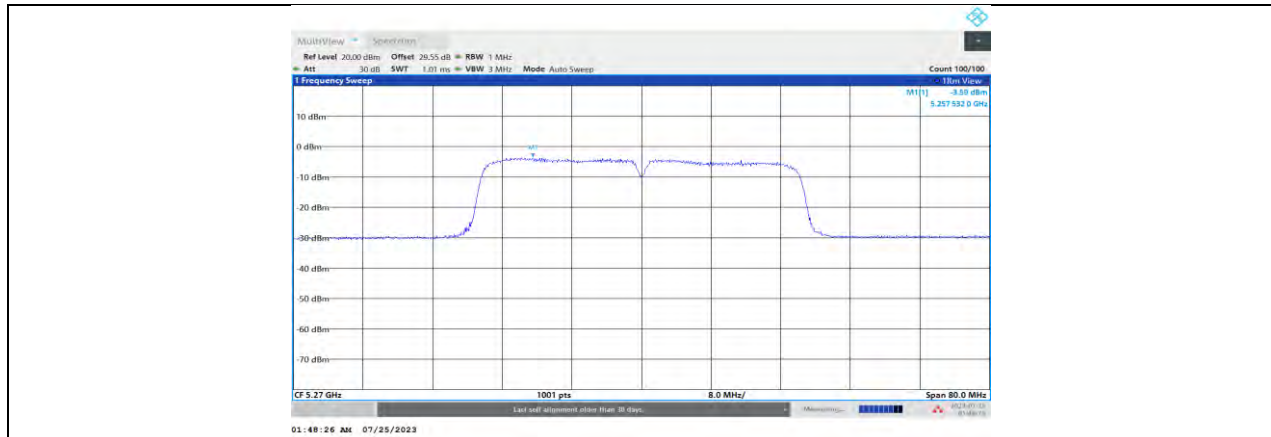
11N20SISO\_Ant3\_5825

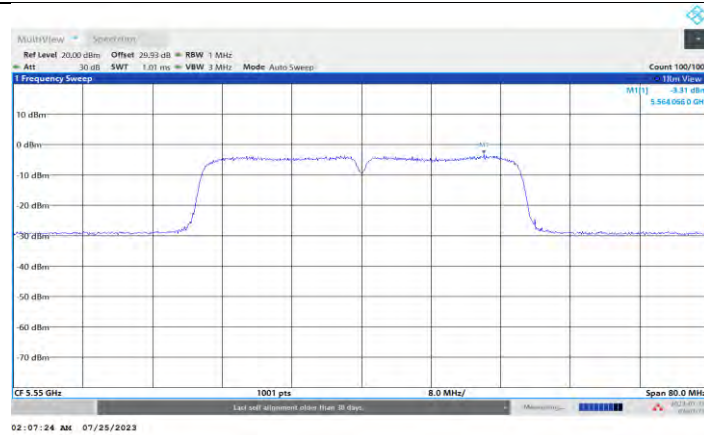


11N40SISO\_Ant3\_5190

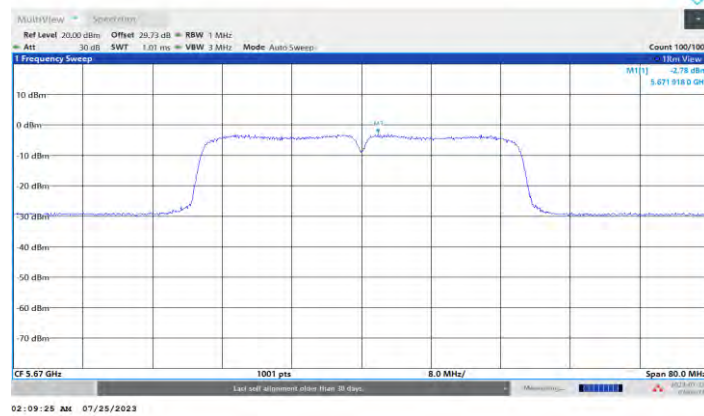


11N40SISO\_Ant3\_5230

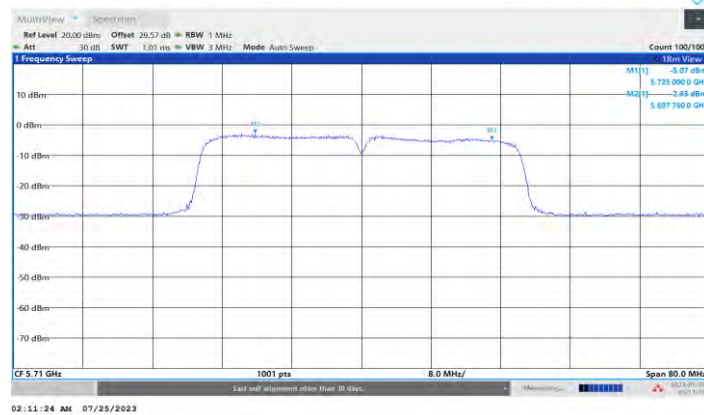




11N40SISO\_Ant3\_5550

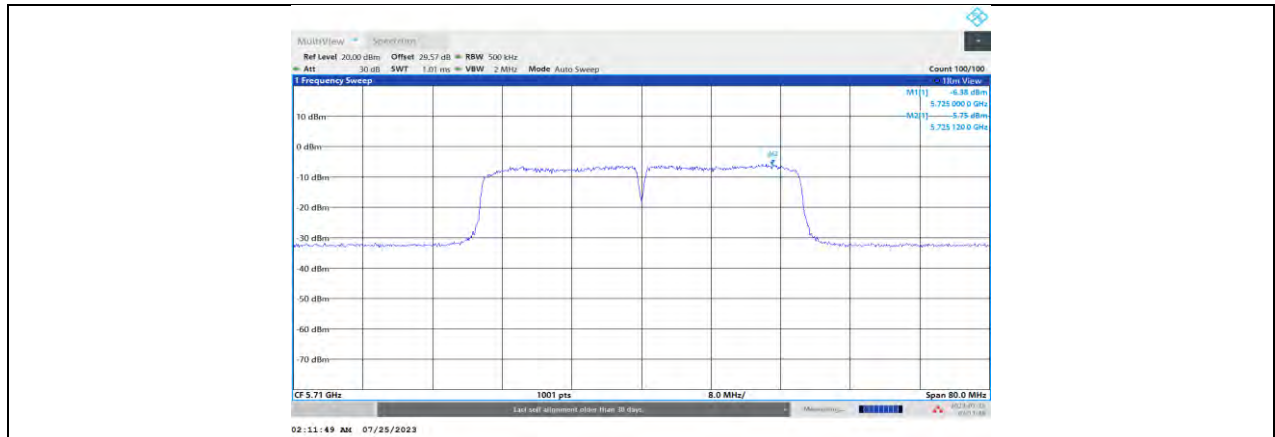


11N40SISO\_Ant3\_5670

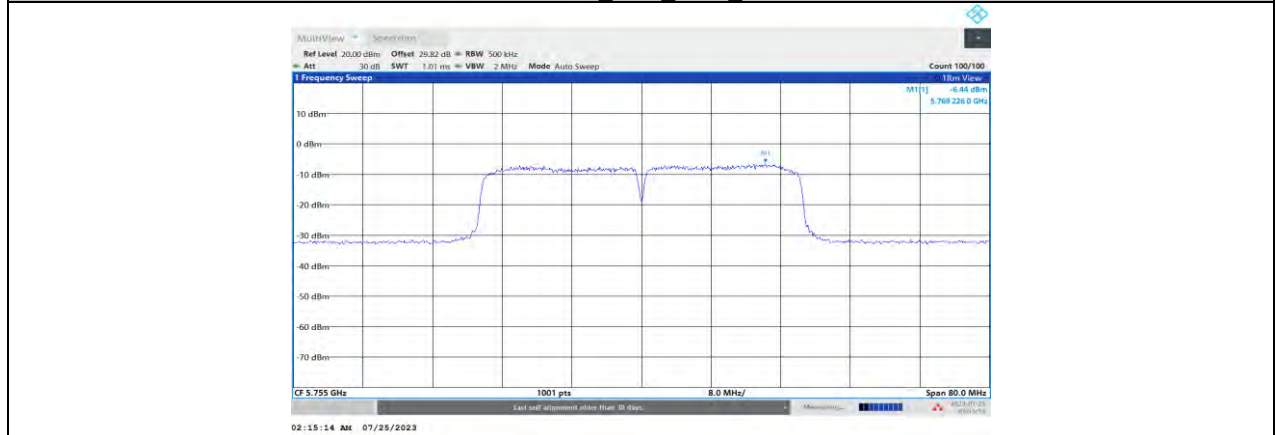


11N40SISO\_Ant3\_5710\_UNII-2C

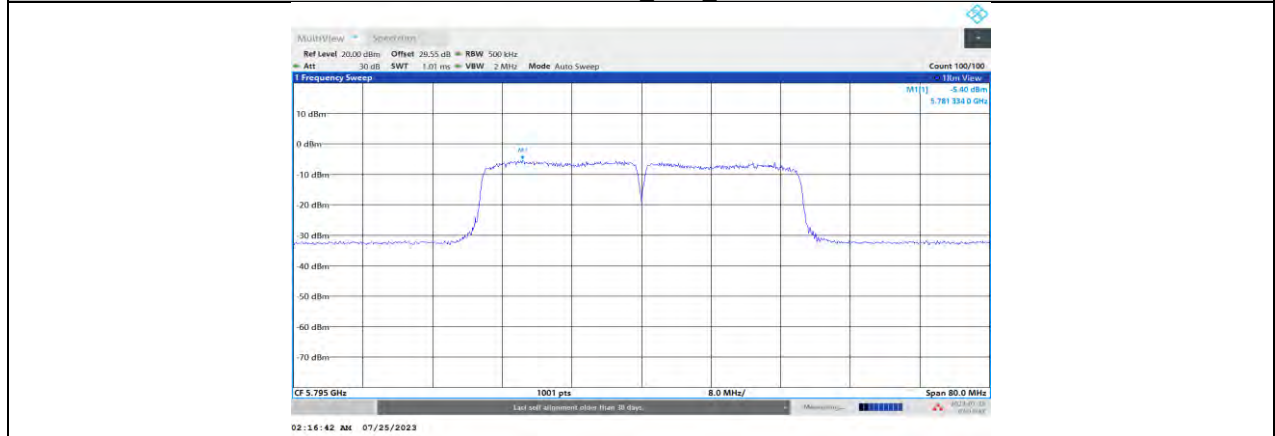




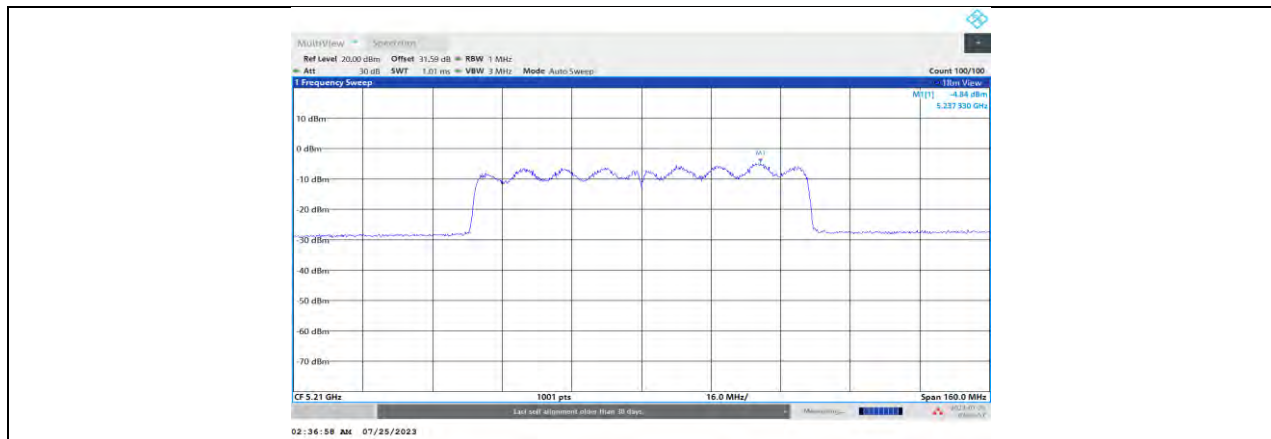
11N40SISO\_Ant3\_5710\_UNII-3



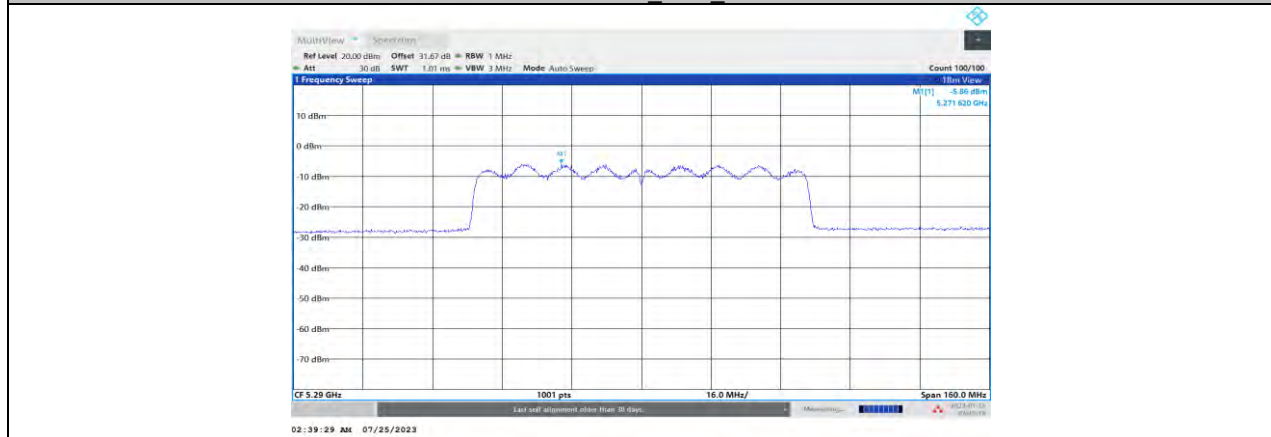
11N40SISO\_Ant3\_5755



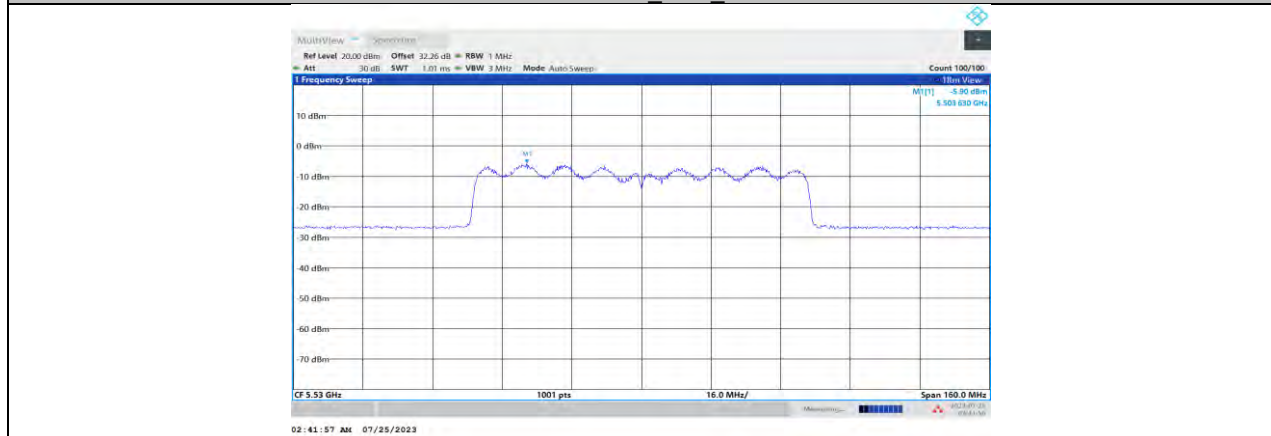
11N40SISO\_Ant3\_5795



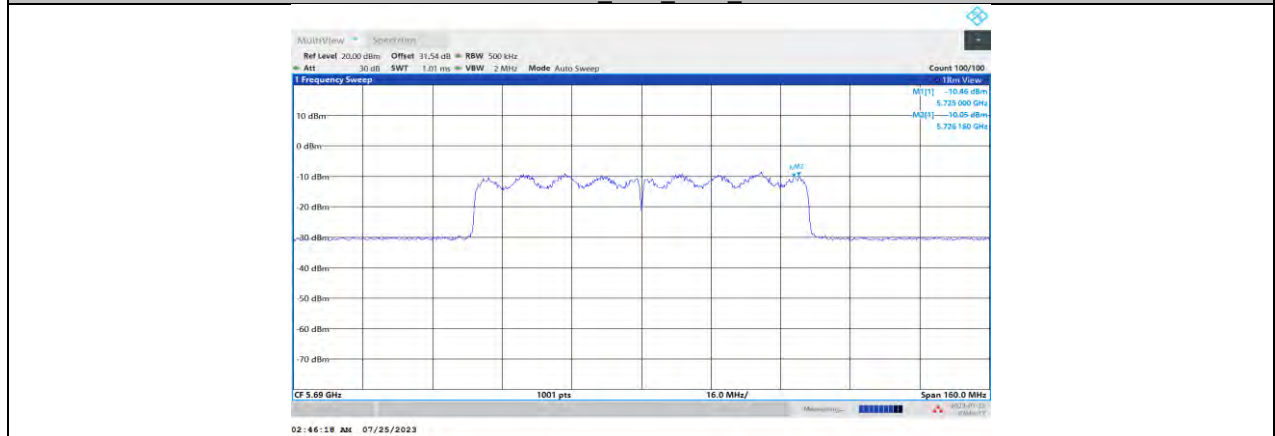
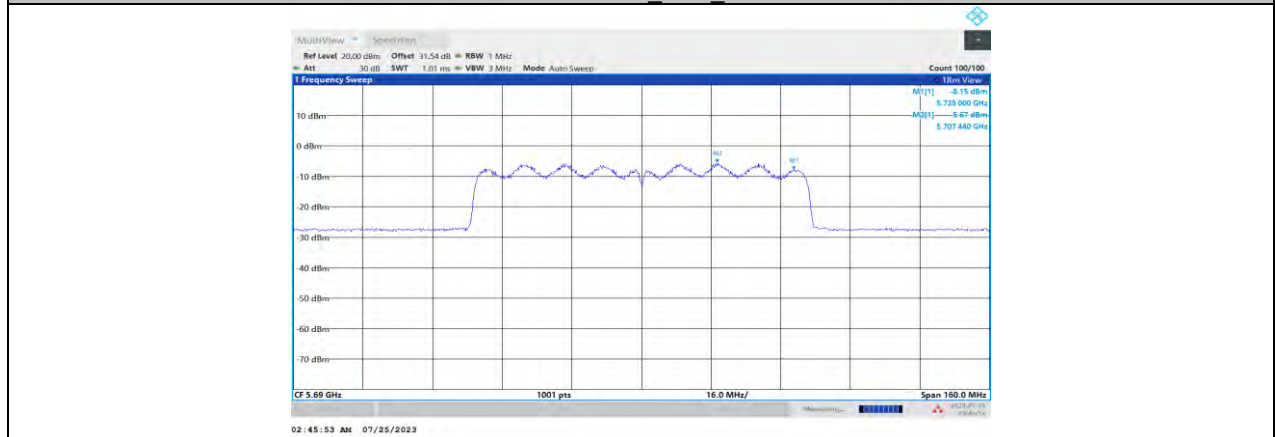
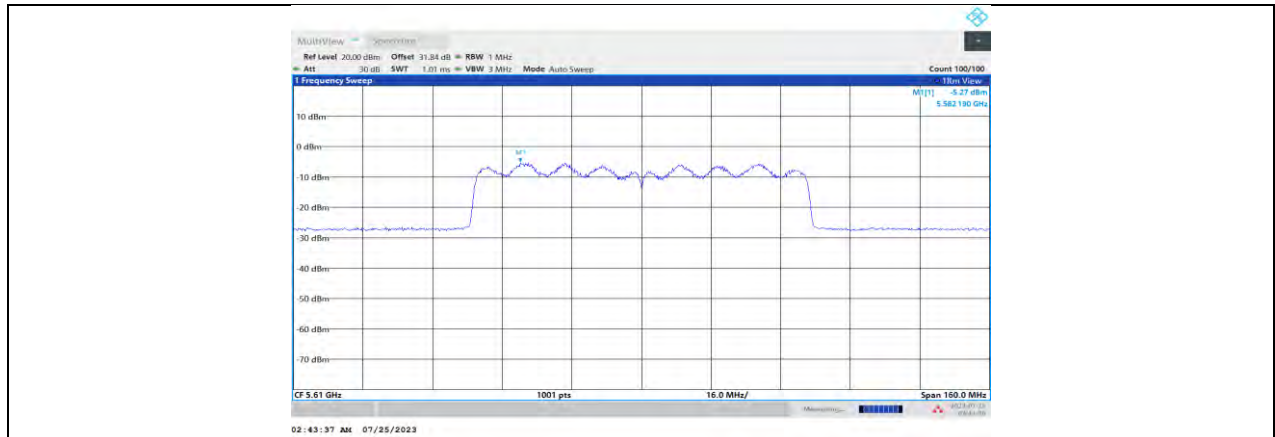
11AC80SISO\_Ant3\_5210

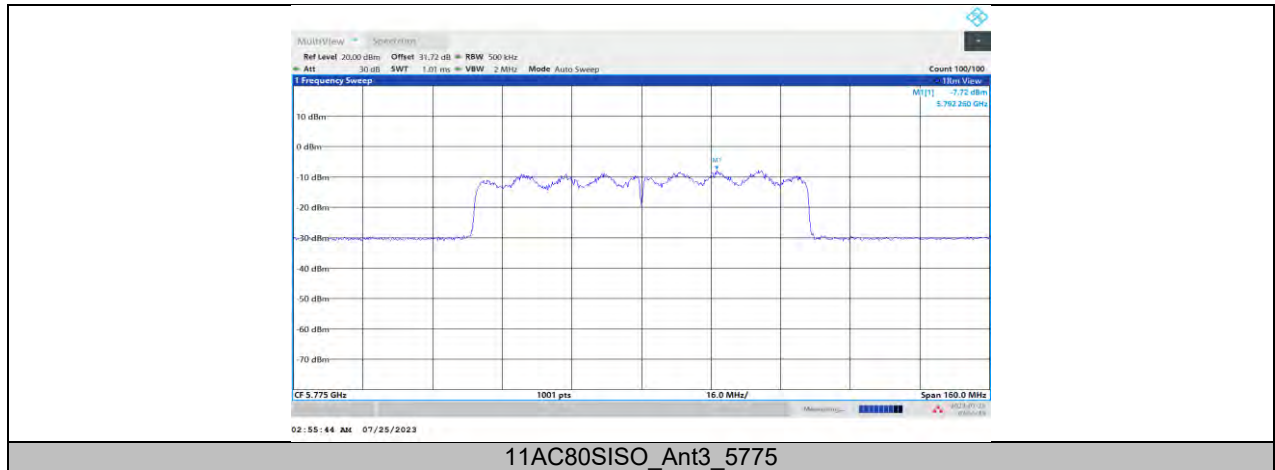


11AC80SISO\_Ant3\_5290



11AC80SISO\_Ant3\_5530





## 11.6. APPENDIX D: 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	5179.9871	-2.49	5179.9912	-1.70	5179.9958	-0.82	5179.9891	-2.11
TN	VN	5180.0053	1.03	5179.9836	-3.17	5179.9803	-3.80	5180.0225	4.35
TN	VH	5179.9955	-0.87	5179.9985	-0.29	5179.9776	-4.33	5180.0057	1.11
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)
40	VN	5179.9947	-1.03	5179.9876	-2.40	5180.0101	1.94	5179.9780	-4.24
30	VN	5180.0116	2.24	5179.9926	-1.43	5179.9812	-3.63	5180.0191	3.70
20	VN	5180.0050	0.96	5180.0183	3.53	5179.9975	-0.48	5179.9834	-3.21
10	VN	5179.9755	-4.74	5179.9769	-4.47	5180.0081	1.57	5180.0245	4.73
0	VN	5180.0125	2.41	5179.9768	-4.47	5179.9774	-4.36	5179.9939	-1.18

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	5824.9997	-0.06	5825.0024	0.41	5824.9814	-3.20	5824.9977	-0.39
TN	VN	5825.0040	0.68	5825.0187	3.21	5824.9862	-2.38	5825.0126	2.17
TN	VH	5825.0174	2.99	5825.0161	2.76	5824.9882	-2.03	5825.0205	3.52
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)
40	VN	5824.9889	-1.91	5825.0098	1.68	5825.0111	1.91	5825.0023	0.39
30	VN	5825.0011	0.20	5825.0244	4.18	5824.9848	-2.60	5825.0219	3.75
20	VN	5824.9890	-1.90	5824.9832	-2.88	5824.9997	-0.04	5825.0166	2.85
10	VN	5825.0067	1.15	5824.9921	-1.36	5824.9869	-2.26	5824.9908	-1.59
0	VN	5825.0212	3.64	5825.0104	1.78	5824.9818	-3.12	5824.9776	-3.84

**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 E: 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	1.36	2.36	0.5763	57.63	2.39	0.74	1
11N20SISO	1.27	2.27	0.5595	55.95	2.52	0.79	1
11N40SISO	0.63	1.63	0.3865	38.65	4.13	1.59	2
11AC80SISO	0.32	1.32	0.2424	24.24	6.15	3.13	4

Note:

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

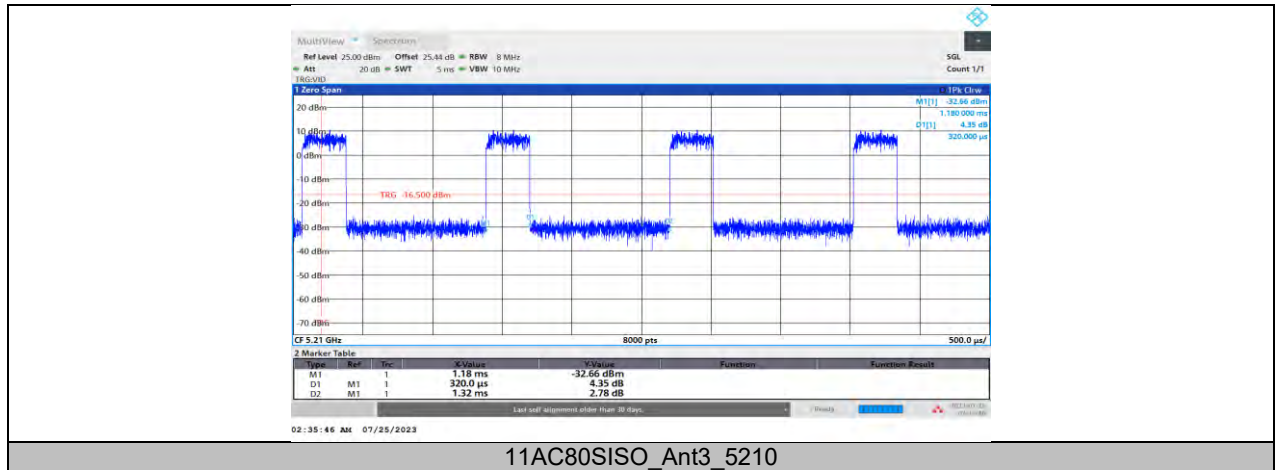
Where: x is Duty Cycle (Linear)

Where: T is On Time

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

## 11.7.2. Test Graphs





## 11.8. APPENDIX F: DFS DETECTION THRESHOLDS

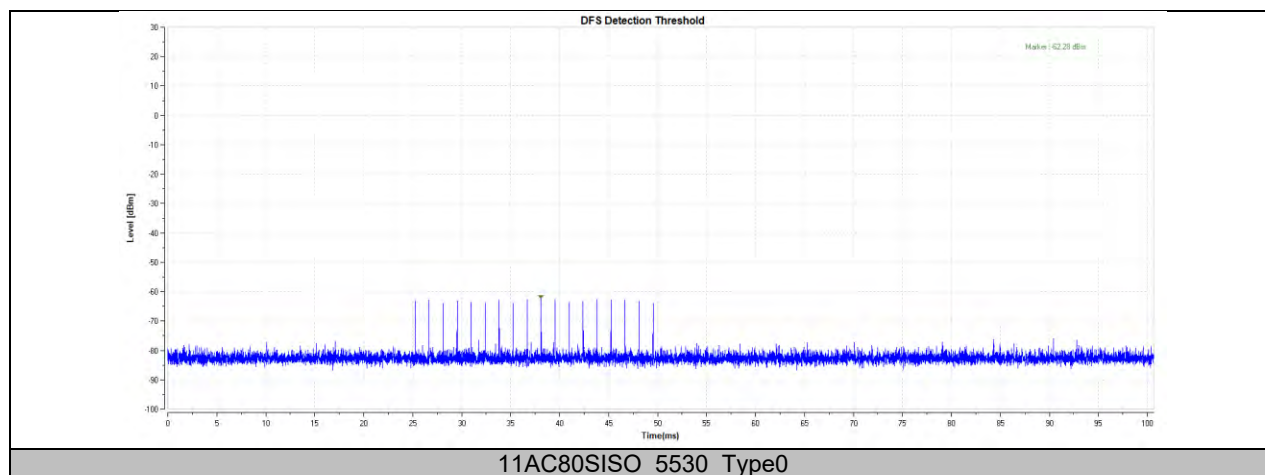
### 11.8.1. Test Result

Test Mode	Channel	Radar Type	Result	Verdict
11AC80SISO	5530	Type0	-62.28	PASS

Note: All the test modes have been tested, only the worst data record in the report.



## 11.8.2. Test Graphs



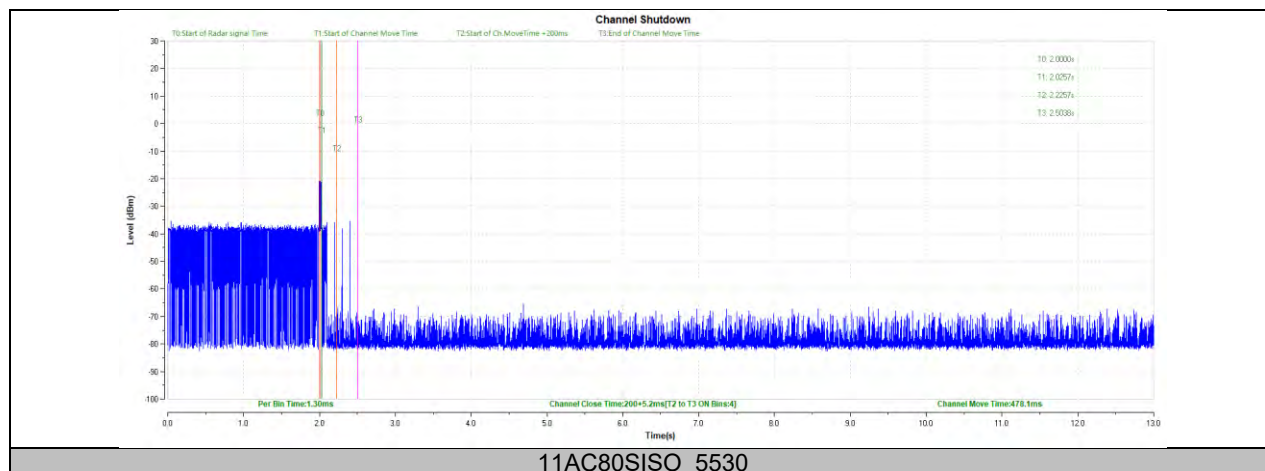
## 11.9. APPENDIX G: CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

### 11.9.1. Test Result

Test Mode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC80SISO	5530	200+5.2	200+60	478.1	10000	PASS

Note: All the test modes have been tested, only the worst data record in the report.

## 11.9.2. Test Graphs



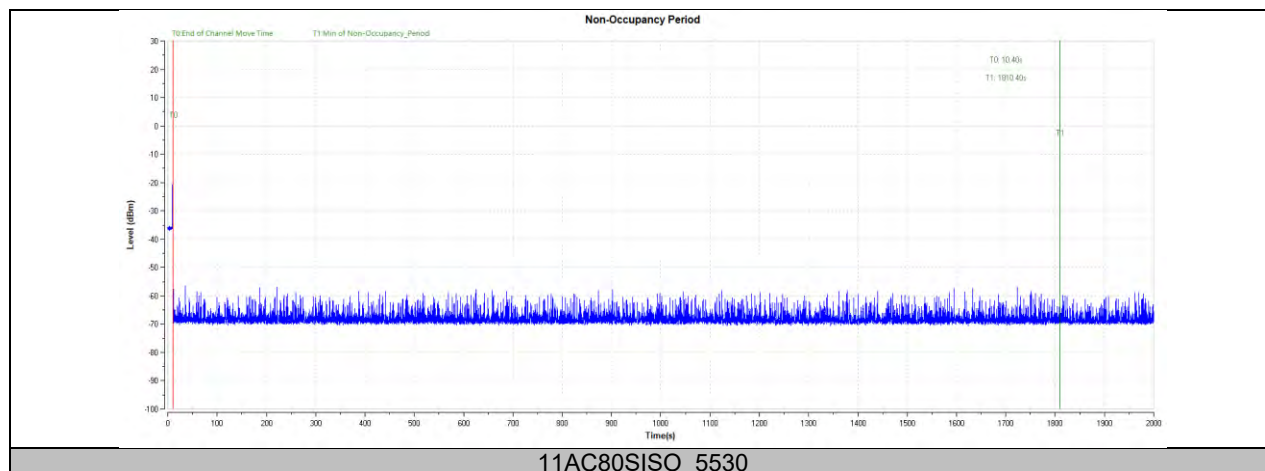
## 11.10. APPENDIX H: NON-OCCUPANCY PERIOD

### Test Result

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

Note: All the test modes have been tested, only the worst data record in the report.

### 11.10.1. Test Graphs



**END OF REPORT**