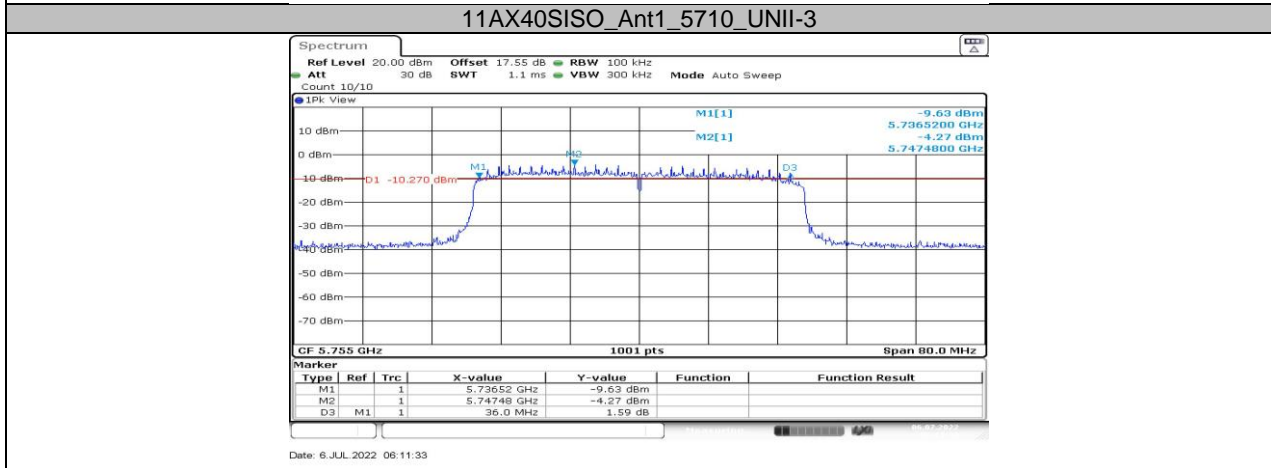
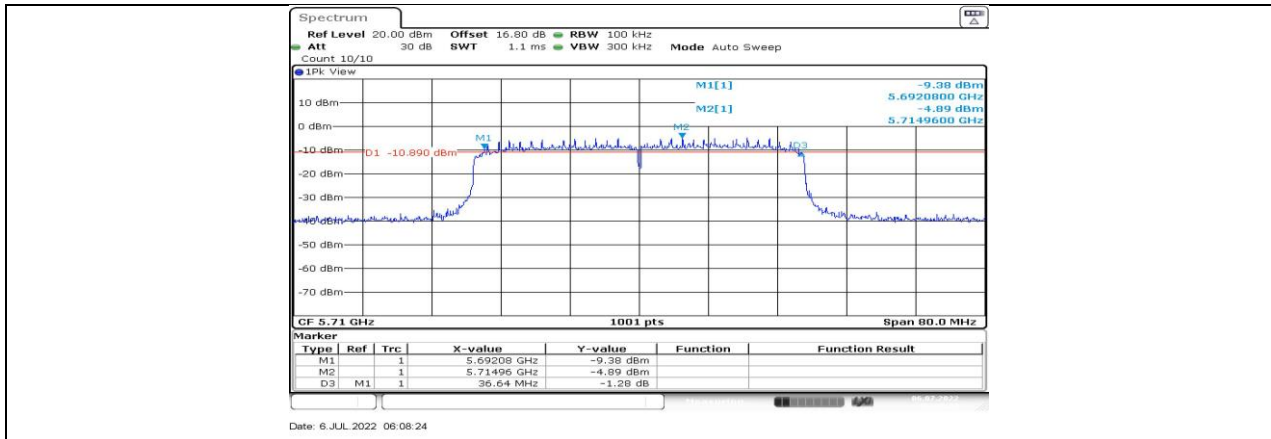


11AX20SISO_Ant1_5825



**11.4. APPENDIX B: MAXIMUM CONDUCTED AVG OUTPUT POWER****11.4.1. Test Result**

Test Mode	Antenna	Channel	Power [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	11.68	≤23.98	---	13.38	≤22.28	PASS
		5200	11.88	≤23.98	---	13.58	≤22.28	PASS
		5240	12.01	≤23.98	---	13.71	≤22.28	PASS
		5260	12.24	≤23.94	≤23.28	13.94	≤29.28	PASS
		5280	12.22	≤23.81	≤23.28	13.92	≤29.28	PASS
		5320	12.09	≤23.98	≤23.81	13.79	≤29.81	PASS
		5500	10.44	≤23.98	≤23.80	12.14	≤29.80	PASS
		5580	10.82	≤23.98	≤23.78	12.52	≤29.78	PASS
		5700	11.32	≤23.89	≤23.28	13.02	≤29.28	PASS
		5720_UNII-2C	11.96	≤23.29	≤22.73	13.66	≤28.73	PASS
		5720_UNII-3	5.19	≤30.00	≤30.00	6.89	---	PASS
		5745	11.01	≤30.00	≤30.00	12.71	---	PASS
		5785	10.32	≤30.00	≤30.00	12.02	---	PASS
5825	10.88	≤30.00	≤30.00	12.58	---	PASS		
11N20SISO	Ant1	5180	11.17	≤23.98	---	12.87	≤22.51	PASS
		5200	11.12	≤23.98	---	12.82	≤22.53	PASS
		5240	12.40	≤23.98	---	14.1	≤22.53	PASS
		5260	12.31	≤23.98	≤23.52	14.01	≤29.52	PASS
		5280	12.05	≤23.98	≤23.53	13.75	≤29.53	PASS
		5320	12.16	≤23.98	≤23.53	13.86	≤29.53	PASS
		5500	11.47	≤23.98	≤23.53	13.17	≤29.53	PASS
		5580	11.88	≤23.98	≤23.52	13.58	≤29.52	PASS
		5700	10.69	≤23.98	≤23.53	12.39	≤29.53	PASS
		5720_UNII-2C	9.88	≤22.95	≤22.48	11.58	≤28.48	PASS
		5720_UNII-3	2.70	≤30.00	≤30.00	4.4	---	PASS
		5745	11.85	≤30.00	≤30.00	13.55	---	PASS
		5785	12.18	≤30.00	≤30.00	13.88	---	PASS
5825	12.27	≤30.00	≤30.00	13.97	---	PASS		
11N40SISO	Ant1	5190	10.63	≤23.98	---	12.33	≤23.01	PASS
		5230	10.88	≤23.98	---	12.58	≤23.01	PASS
		5270	10.68	≤23.98	≤23.98	12.38	≤30.00	PASS
		5310	10.55	≤23.98	≤23.98	12.25	≤30.00	PASS
		5510	10.08	≤23.98	≤23.98	11.78	≤30.00	PASS
		5590	10.36	≤23.98	≤23.98	12.06	≤30.00	PASS
		5670	11.03	≤23.98	≤23.98	12.73	≤30.00	PASS
		5710_UNII-2C	11.22	≤23.98	≤23.98	12.92	≤30.00	PASS
		5710_UNII-3	-1.64	≤30.00	≤30.00	0.06	---	PASS
		5755	11.69	≤30.00	≤30.00	13.39	---	PASS
5795	12.52	≤30.00	≤30.00	14.22	---	PASS		
11AX20SISO	Ant1	5180	12.58	≤23.98	---	14.28	≤22.98	PASS
		5200	12.38	≤23.98	---	14.08	≤23.01	PASS
		5240	12.42	≤23.98	---	14.12	≤23.01	PASS
		5260	12.33	≤23.98	≤23.98	14.03	≤30.00	PASS
		5280	12.25	≤23.98	≤23.98	13.95	≤30.00	PASS
		5320	11.67	≤23.98	≤23.98	13.37	≤30.00	PASS
		5500	9.39	≤23.98	≤23.76	11.09	≤29.76	PASS
		5580	8.55	≤23.98	≤23.76	10.25	≤29.76	PASS
		5700	9.75	≤23.98	≤23.76	11.45	≤29.76	PASS
		5720_UNII-2C	7.83	≤22.81	≤22.59	9.53	≤28.59	PASS

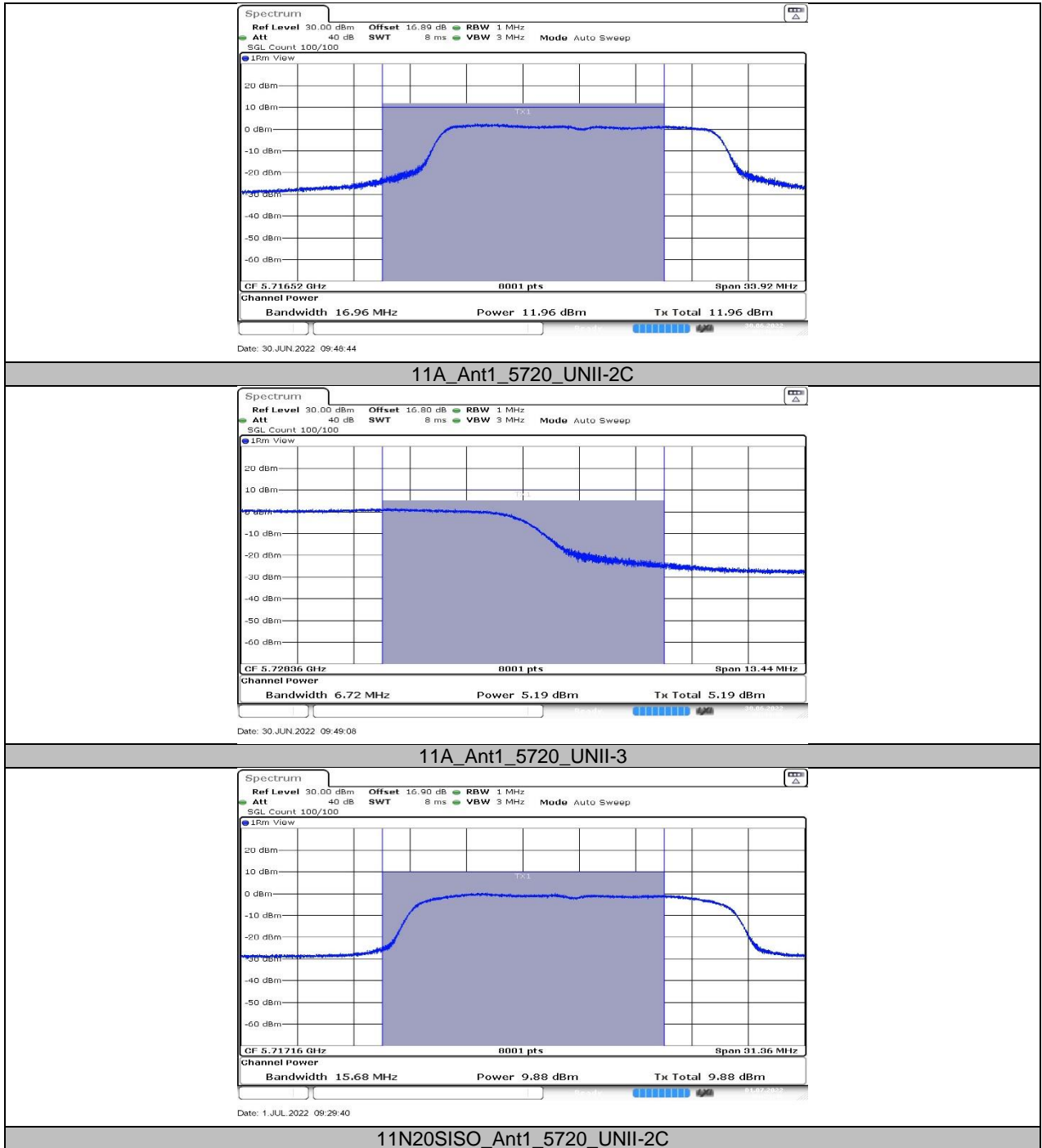


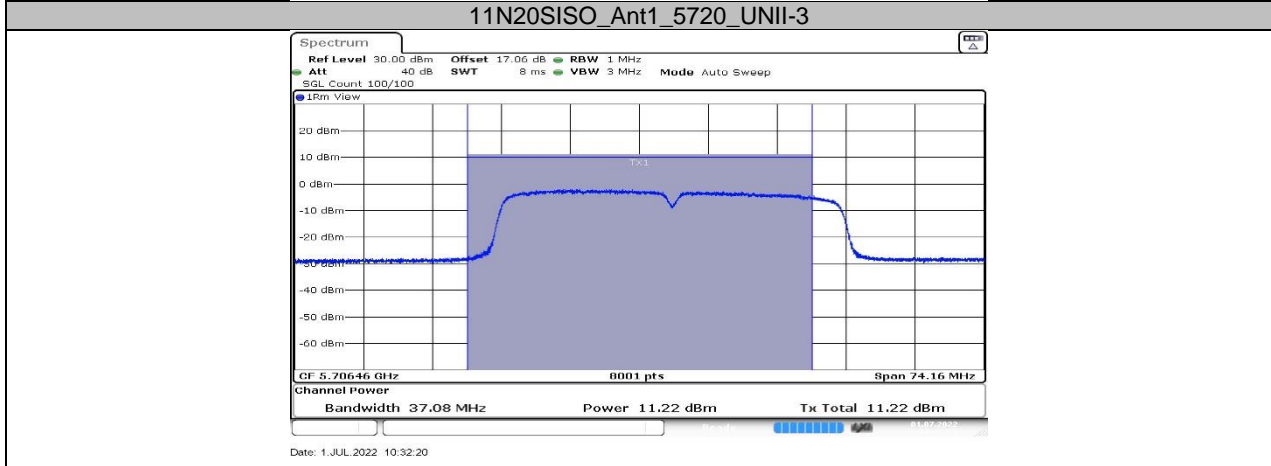
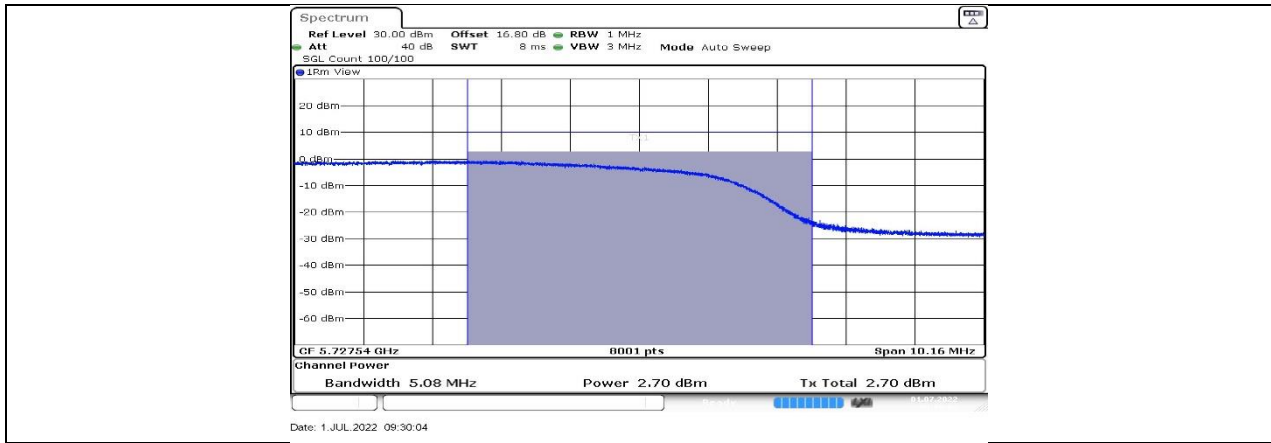
		5720_UNII-3	0.88	≤30.00	≤30.00	2.58	---	PASS
		5745	9.25	≤30.00	≤30.00	10.95	---	PASS
		5785	7.55	≤30.00	≤30.00	9.25	---	PASS
		5825	8.07	≤30.00	≤30.00	9.77	---	PASS
11AX40SISO	Ant1	5190	11.70	≤23.98	---	13.4	≤23.01	PASS
		5230	11.73	≤23.98	---	13.43	≤23.01	PASS
		5270	11.72	≤23.98	≤23.98	13.42	≤30.00	PASS
		5310	10.68	≤23.98	≤23.98	12.38	≤30.00	PASS
		5510	11.43	≤23.98	≤23.98	13.13	≤30.00	PASS
		5590	10.65	≤23.98	≤23.98	12.35	≤30.00	PASS
		5670	11.00	≤23.98	≤23.98	12.7	≤30.00	PASS
		5710_UNII-2C	8.43	≤23.98	≤23.98	10.13	≤30.00	PASS
		5710_UNII-3	-3.16	≤30.00	≤30.00	-1.46	---	PASS
		5755	9.37	≤30.00	≤30.00	11.07	---	PASS
		5795	8.19	≤30.00	≤30.00	9.89	---	PASS

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

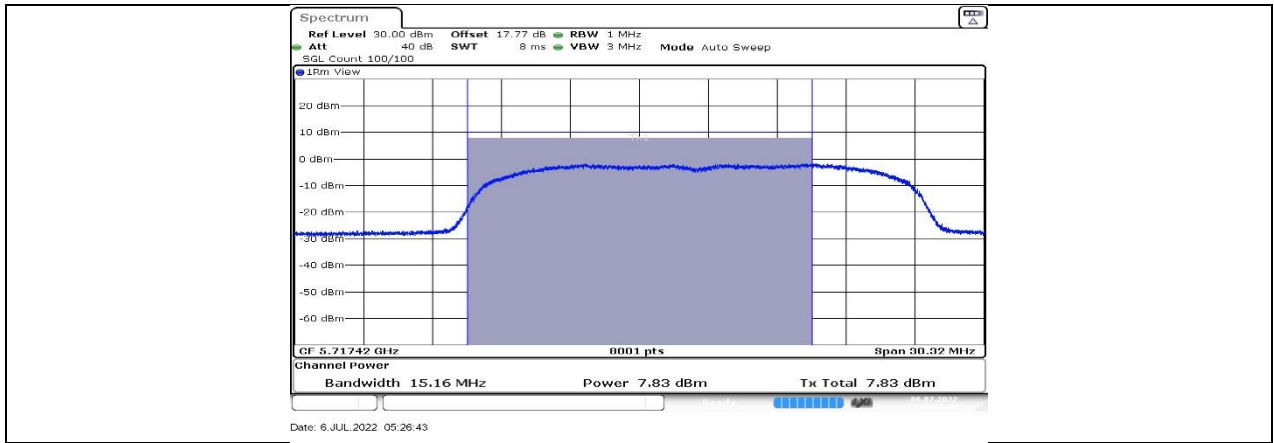
2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

11.4.2. Test Graphs

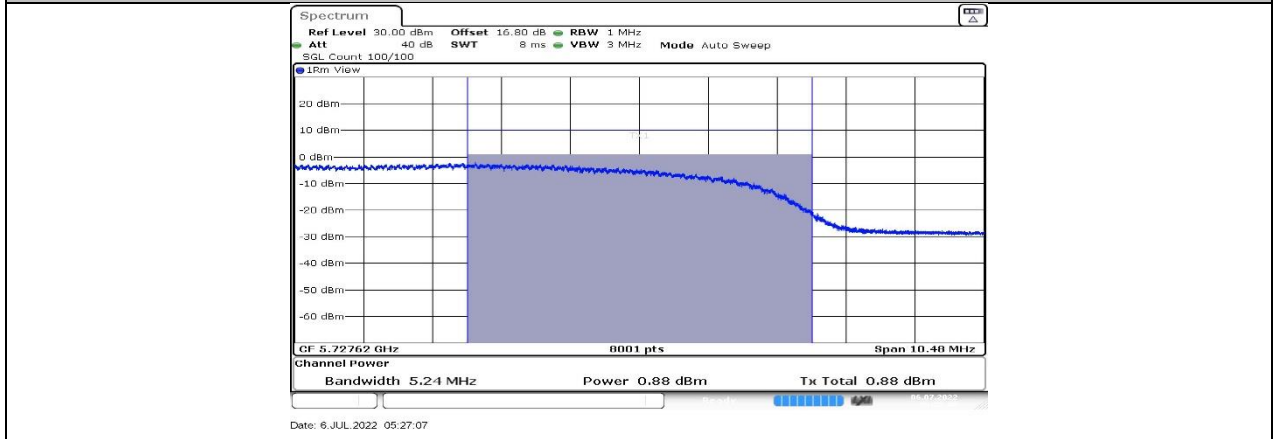




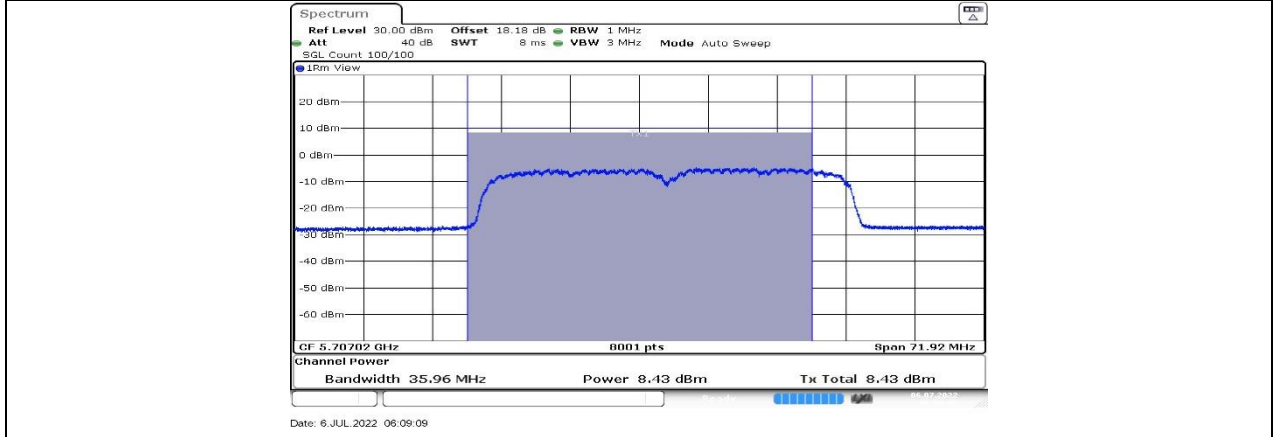
11N40SISO_Ant1_5710_UNII-3



11AX20SISO_Ant1_5720_UNII-2C



11AX20SISO_Ant1_5720_UNII-3



11AX40SISO_Ant1_5710_UNII-2C



**11.5. APPENDIX C: MAXIMUM POWER SPECTRAL DENSITY****11.5.1. Test Result**

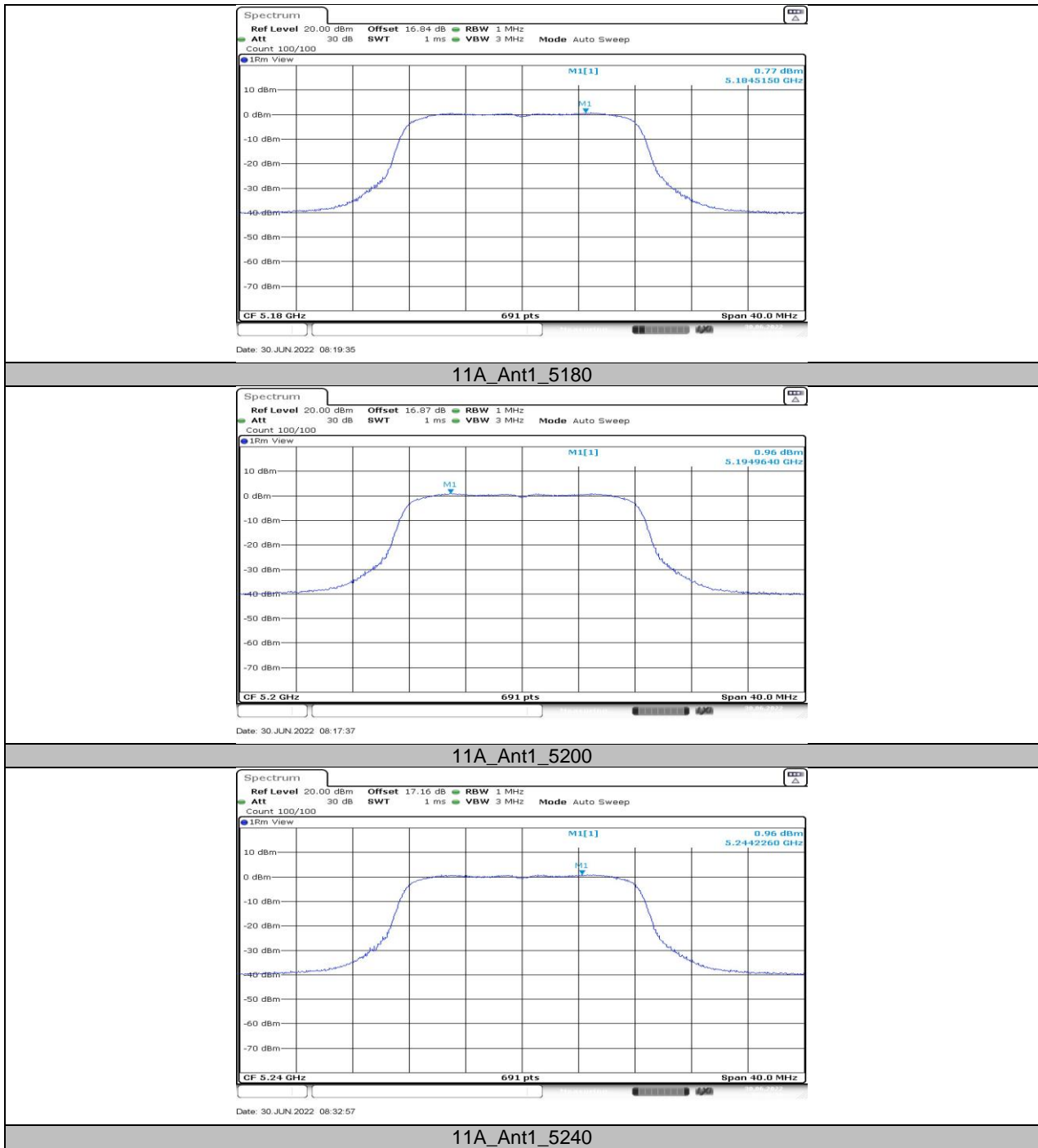
Test Mode	Antenna	Channel	Power [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	0.77	≤11.00	2.47	≤10.00	PASS
		5200	0.96	≤11.00	2.66	≤10.00	PASS
		5240	0.96	≤11.00	2.66	≤10.00	PASS
		5260	1.34	≤11.00	1.34	---	PASS
		5280	1.2	≤11.00	1.20	---	PASS
		5320	0.34	≤11.00	0.34	---	PASS
		5500	-0.83	≤11.00	-0.83	---	PASS
		5580	-0.64	≤11.00	-0.64	---	PASS
		5700	0.05	≤11.00	0.05	---	PASS
		5720_UNII-2C	2.06	≤11.00	2.06	---	PASS
		5720_UNII-3	-1.82	≤11.00	-1.82	---	PASS
		5745	-3.54	≤30.00	-3.54	---	PASS
		5785	-3.53	≤30.00	-3.53	---	PASS
		5825	-2.94	≤30.00	-2.94	---	PASS
11N20SISO	Ant1	5180	0.04	≤11.00	1.74	≤10.00	PASS
		5200	-0.08	≤11.00	1.62	≤10.00	PASS
		5240	1.35	≤11.00	3.05	≤10.00	PASS
		5260	1.34	≤11.00	1.34	---	PASS
		5280	1.01	≤11.00	1.01	---	PASS
		5320	1.01	≤11.00	1.01	---	PASS
		5500	0.31	≤11.00	0.31	---	PASS
		5580	0.84	≤11.00	0.84	---	PASS
		5700	-0.27	≤11.00	-0.27	---	PASS
		5720_UNII-2C	-0.2	≤11.00	-0.20	---	PASS
		5720_UNII-3	-4.05	≤11.00	-4.05	---	PASS
		5745	-2.02	≤30.00	-2.02	---	PASS
		5785	-1.83	≤30.00	-1.83	---	PASS
		5825	-1.56	≤30.00	-1.56	---	PASS
11N40SISO	Ant1	5190	-4.6	≤11.00	-2.9	≤10.00	PASS
		5230	-3.69	≤11.00	-1.99	≤10.00	PASS
		5270	-3.93	≤11.00	-3.93	---	PASS
		5310	-4.18	≤11.00	-4.18	---	PASS
		5510	-4.2	≤11.00	-4.20	---	PASS
		5590	-4.35	≤11.00	-4.35	---	PASS
		5670	-3.95	≤11.00	-3.95	---	PASS
		5710_UNII-2C	-2.53	≤11.00	-2.53	---	PASS
		5710_UNII-3	-8.21	≤11.00	-8.21	---	PASS
		5755	-5.63	≤30.00	-5.63	---	PASS
		5795	-4.81	≤30.00	-4.81	---	PASS
11AX20SISO	Ant1	5180	1.2	≤11.00	2.9	≤10.00	PASS
		5200	0.66	≤11.00	2.36	≤10.00	PASS
		5240	0.89	≤11.00	2.59	≤10.00	PASS
		5260	1.08	≤11.00	1.08	---	PASS
		5280	1.05	≤11.00	1.05	---	PASS
		5320	-0.1	≤11.00	-0.10	---	PASS
		5500	-2.96	≤11.00	-2.96	---	PASS
		5580	-3.67	≤11.00	-3.67	---	PASS
		5700	-1.45	≤11.00	-1.45	---	PASS
		5720_UNII-2C	-2.08	≤11.00	-2.08	---	PASS
		5720_UNII-3	-5.01	≤11.00	-5.01	---	PASS
5745	-3.48	≤30.00	-3.48	---	PASS		

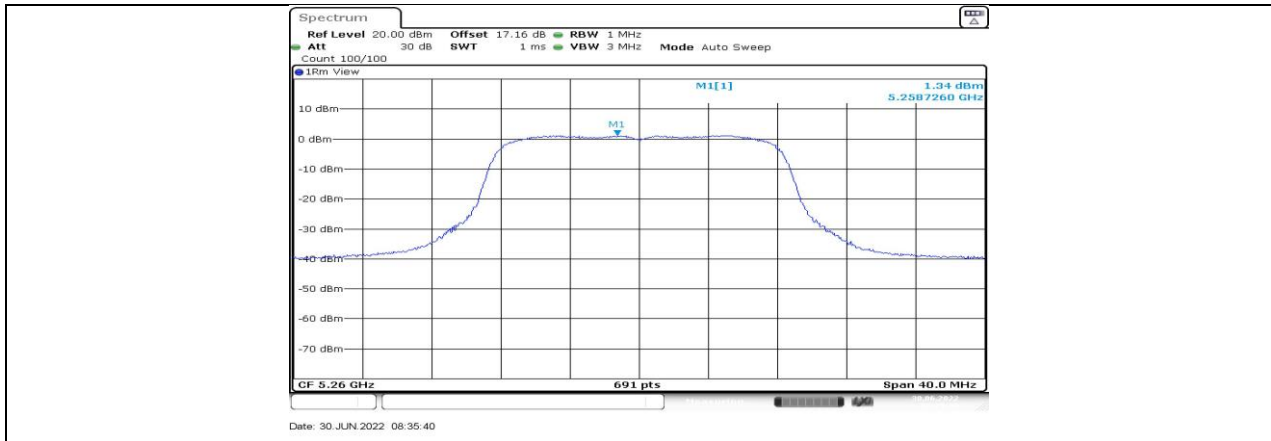


		5785	-6.12	≤30.00	-6.12	---	PASS
		5825	-5.11	≤30.00	-5.11	---	PASS
11AX40SISO	Ant1	5190	-3.06	≤11.00	-1.36	≤10.00	PASS
		5230	-4.25	≤11.00	-2.55	≤10.00	PASS
		5270	-2.53	≤11.00	-2.53	---	PASS
		5310	-3.15	≤11.00	-3.15	---	PASS
		5510	-1.22	≤11.00	-1.22	---	PASS
		5590	-3.34	≤11.00	-3.34	---	PASS
		5670	-2.61	≤11.00	-2.61	---	PASS
		5710_UNII-2C	-5.55	≤11.00	-5.55	---	PASS
		5710_UNII-3	-8.47	≤11.00	-8.47	---	PASS
		5755	-6.92	≤30.00	-6.92	---	PASS
		5795	-8.73	≤30.00	-8.73	---	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



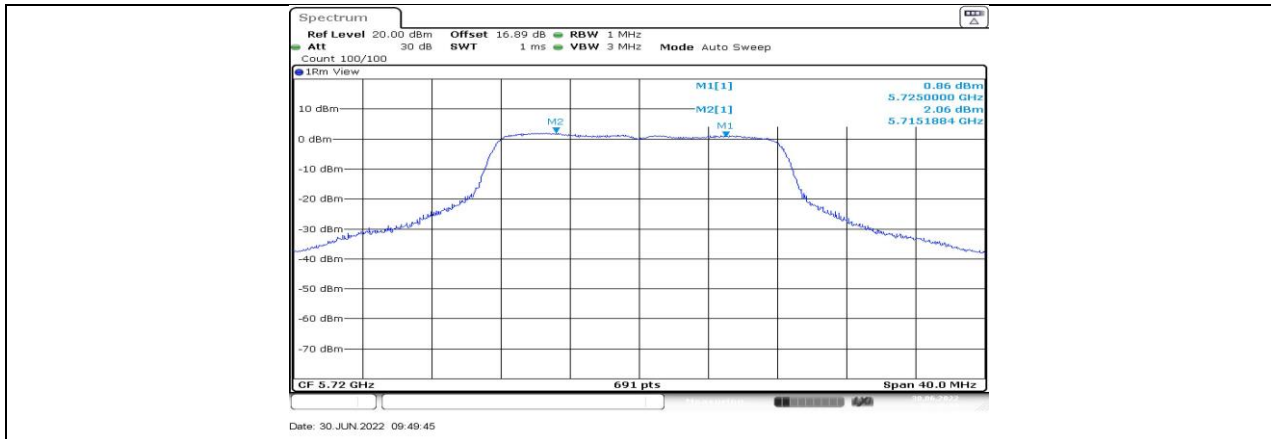
11A_Ant1_5500



11A_Ant1_5580



11A_Ant1_5700



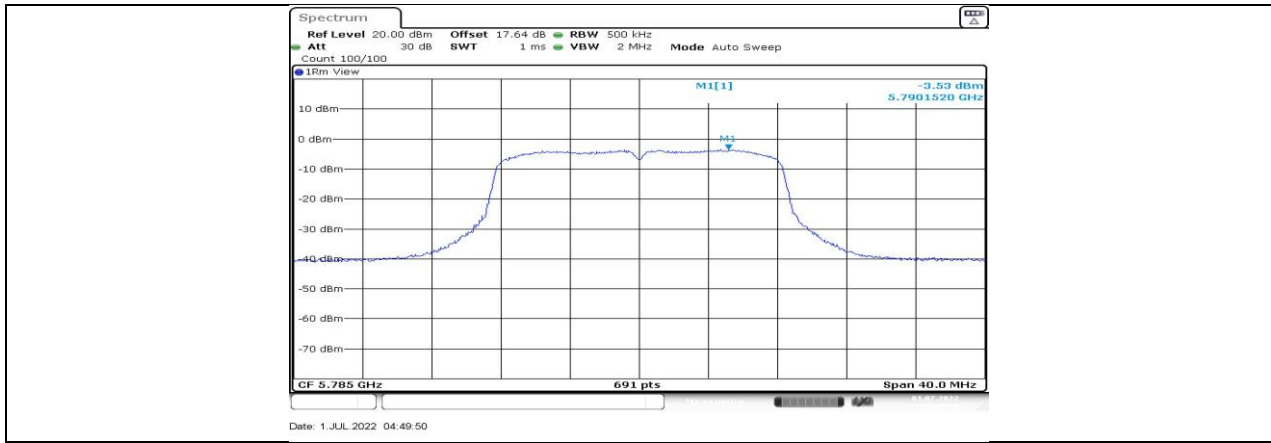
11A_Ant1_5720_UNII-2C



11A_Ant1_5720_UNII-3



11A_Ant1_5745



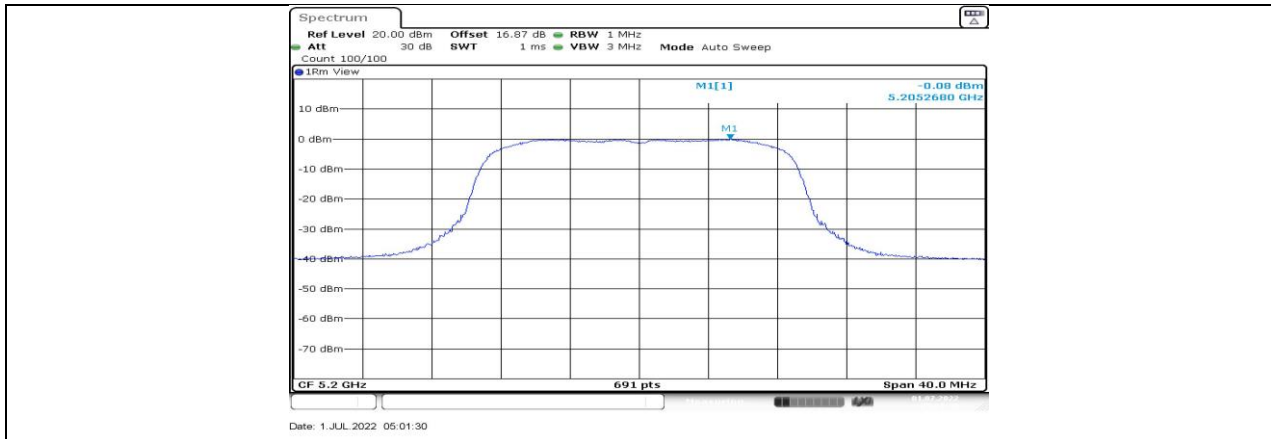
11A_Ant1_5785



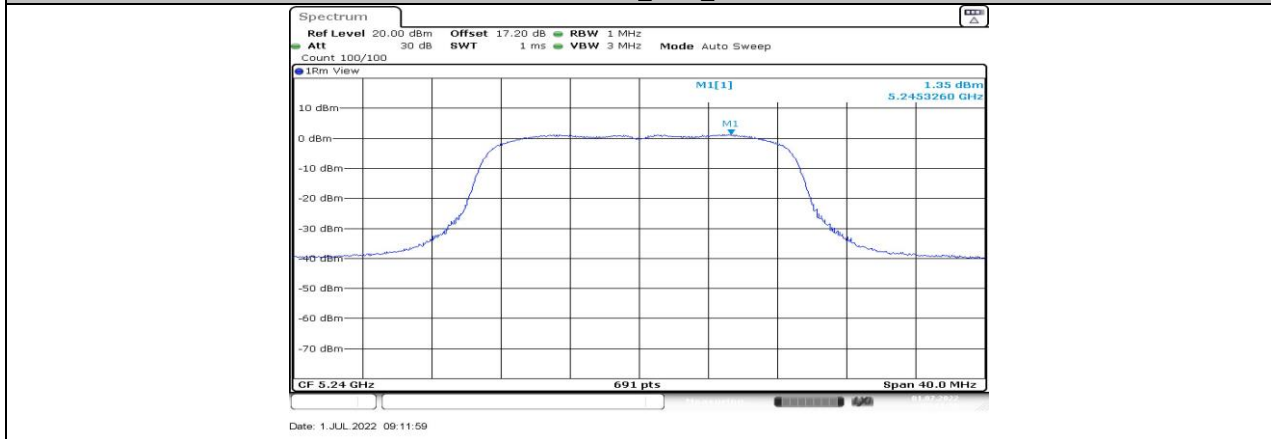
11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



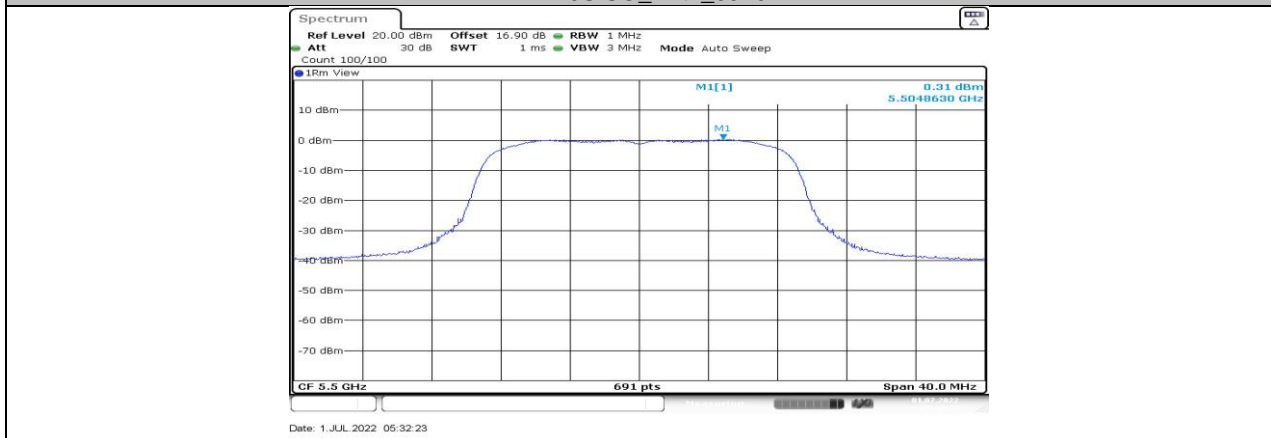
11N20SISO_Ant1_5260



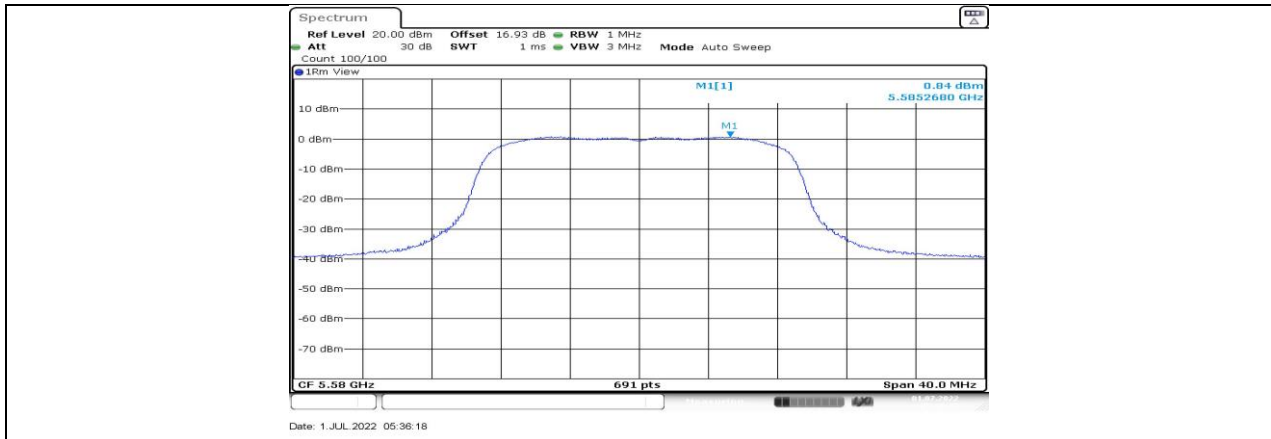
11N20SISO_Ant1_5280



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



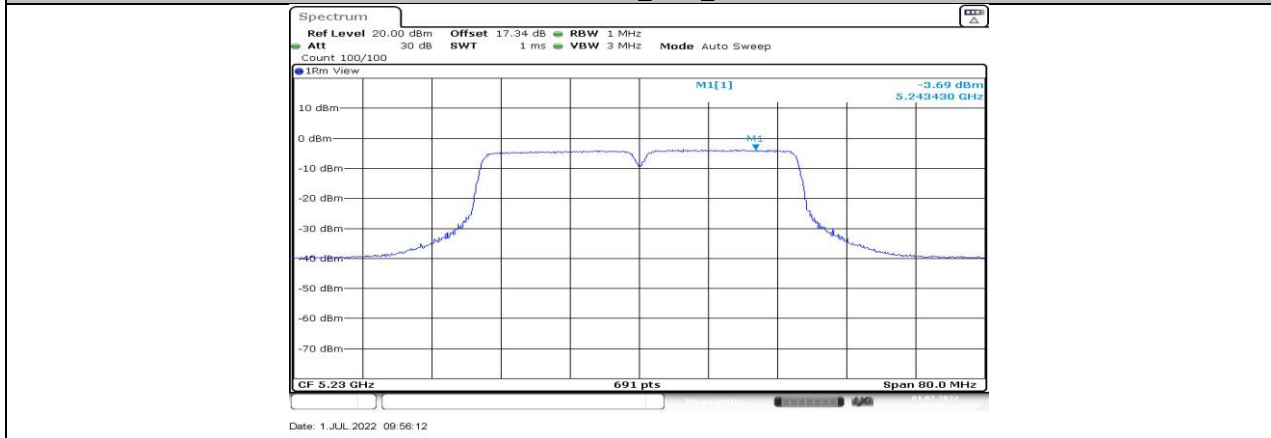
11N20SISO_Ant1_5785



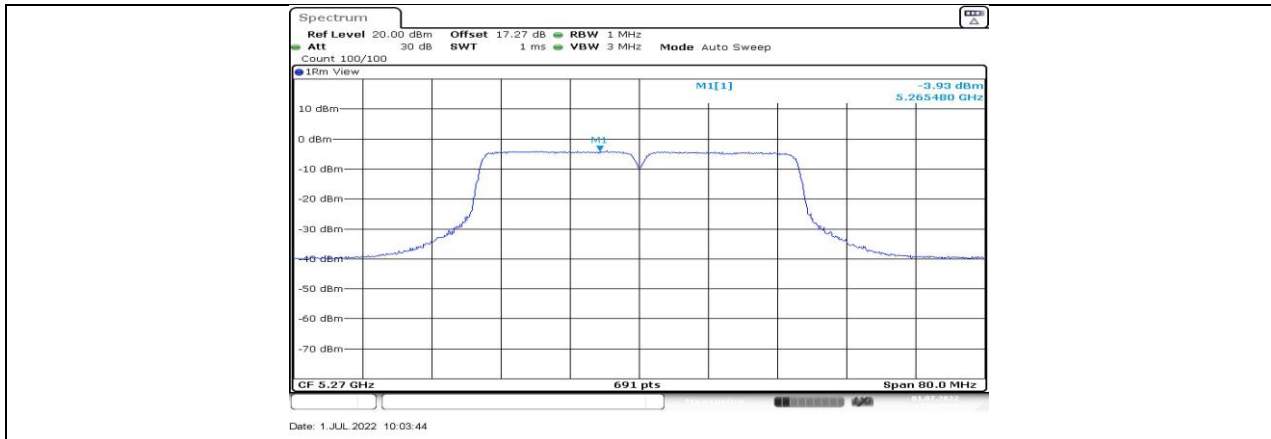
11N20SISO_Ant1_5825



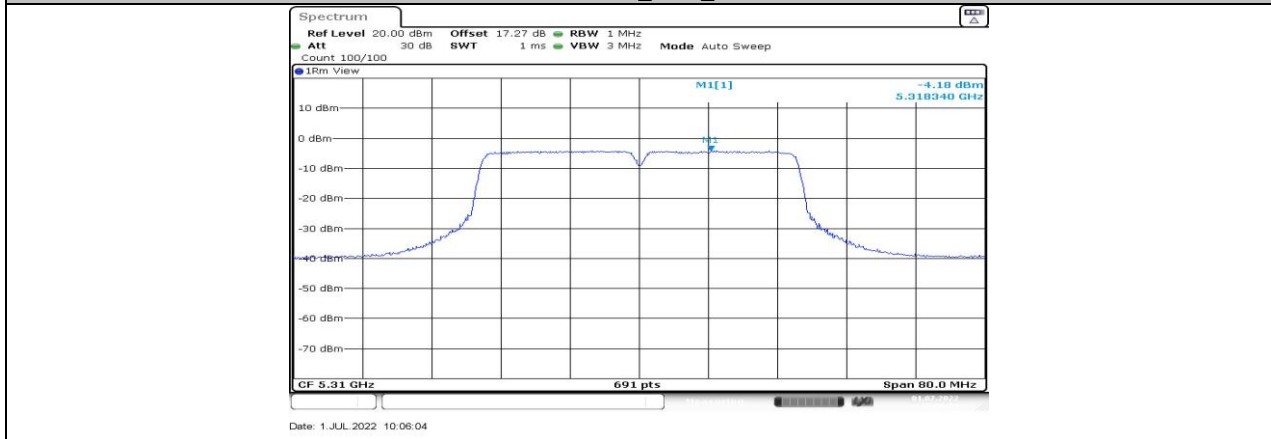
11N40SISO_Ant1_5190



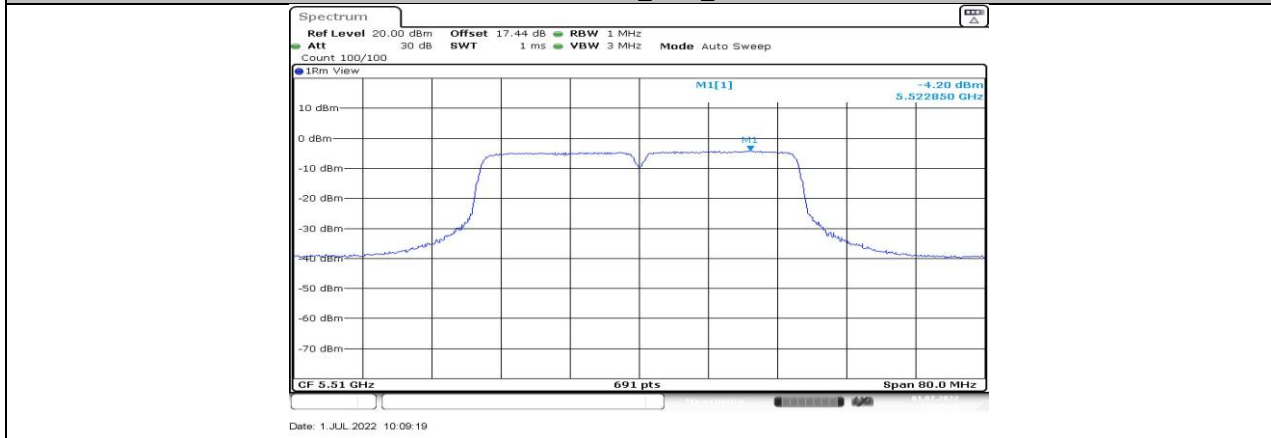
11N40SISO_Ant1_5230



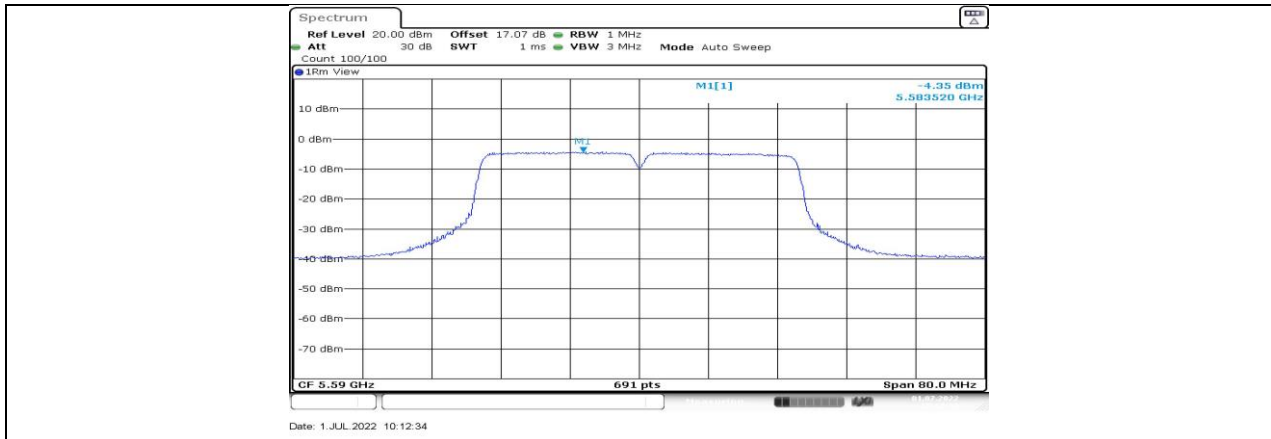
11N40SISO_Ant1_5270



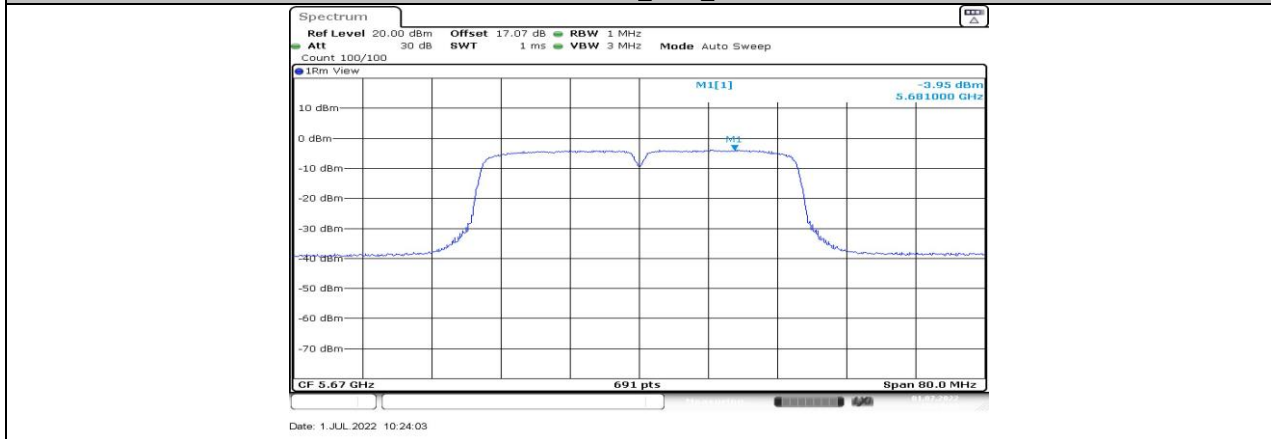
11N40SISO_Ant1_5310



11N40SISO_Ant1_5510



11N40SISO_Ant1_5590



11N40SISO_Ant1_5670



11N40SISO_Ant1_5710_UNII-2C



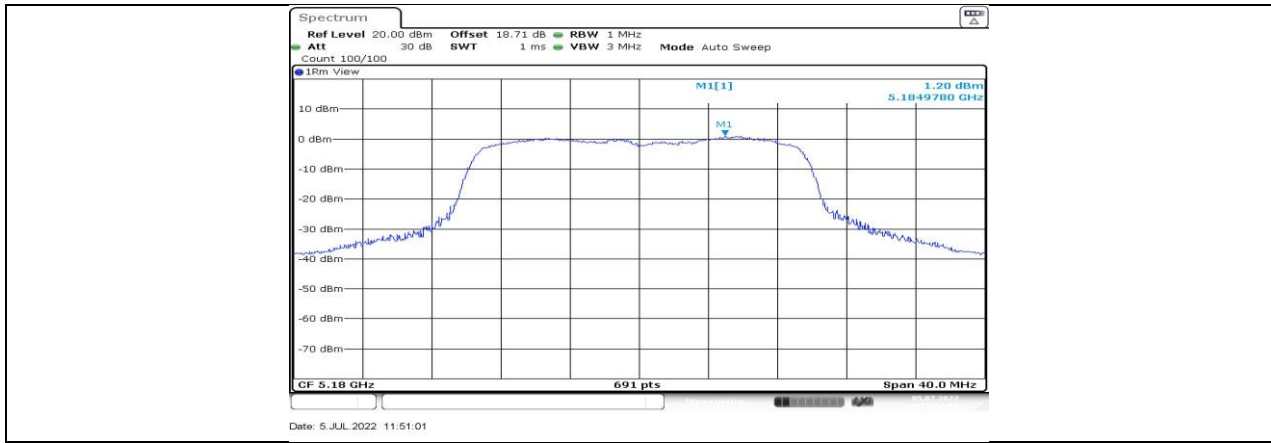
11N40SISO_Ant1_5710_UNII-3



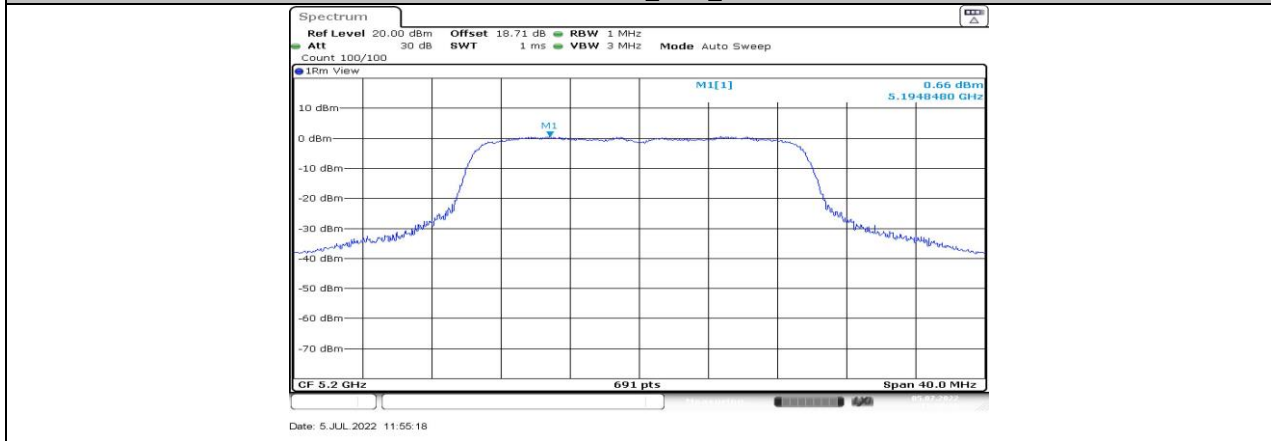
11N40SISO_Ant1_5755



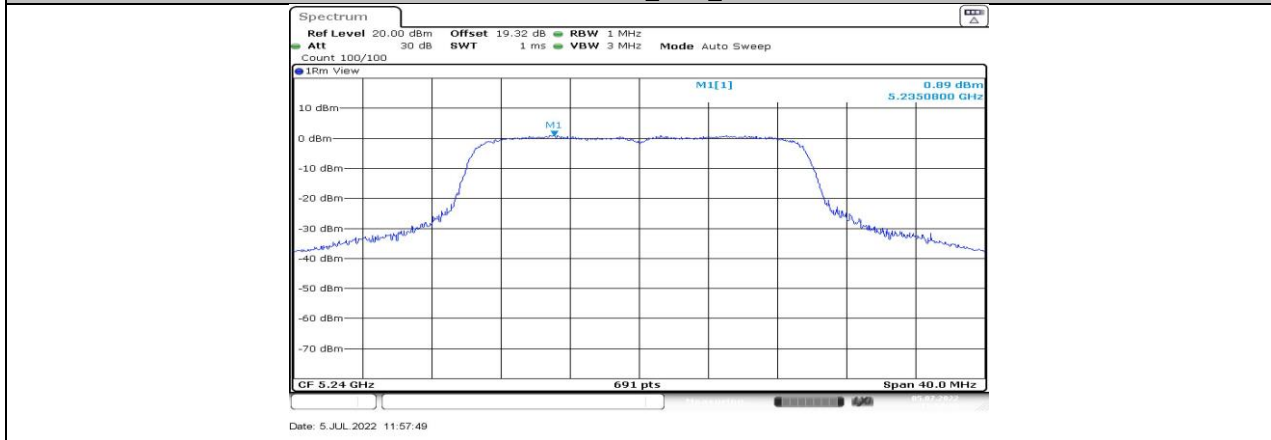
11N40SISO_Ant1_5795



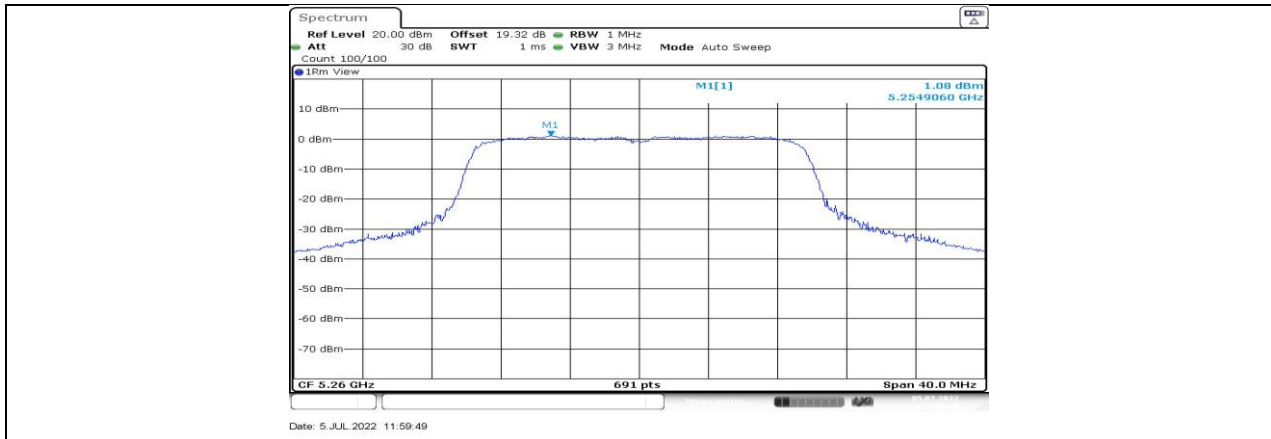
11AX20SISO_Ant1_5180



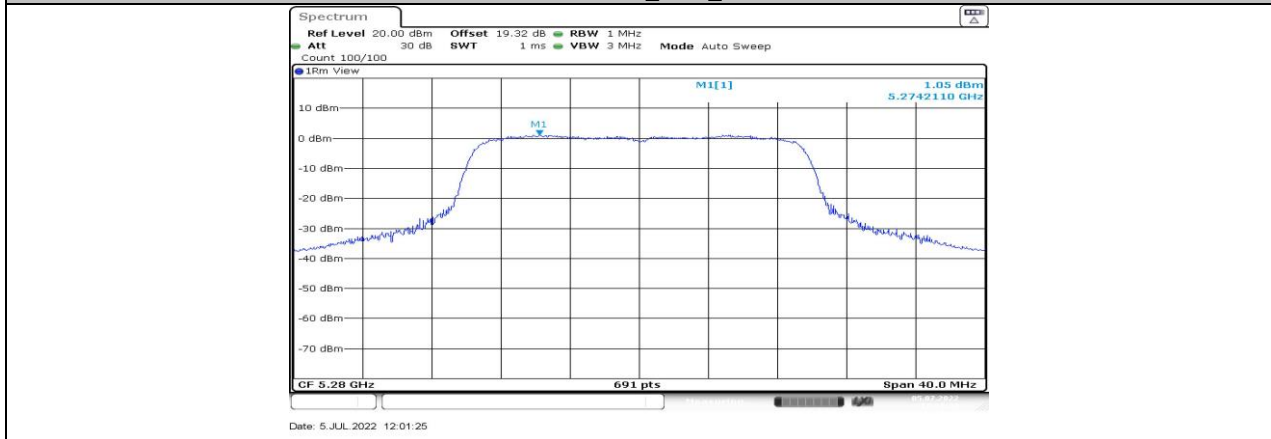
11AX20SISO_Ant1_5200



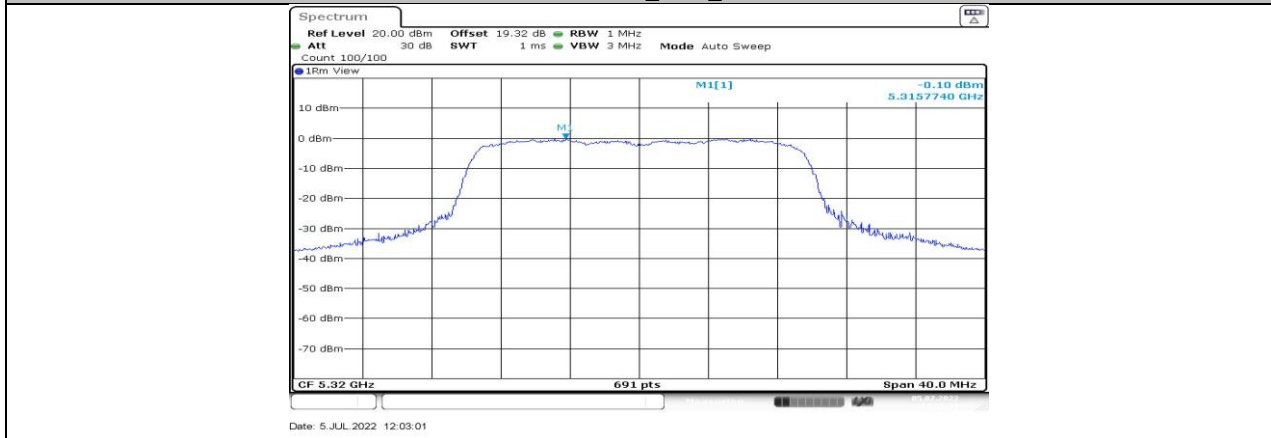
11AX20SISO_Ant1_5240



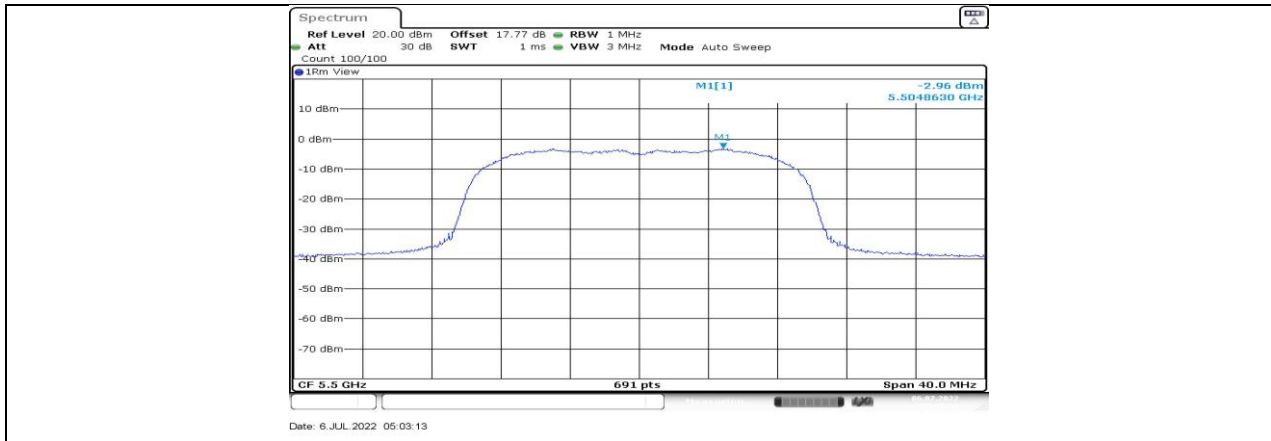
11AX20SISO_Ant1_5260



11AX20SISO_Ant1_5280



11AX20SISO_Ant1_5320



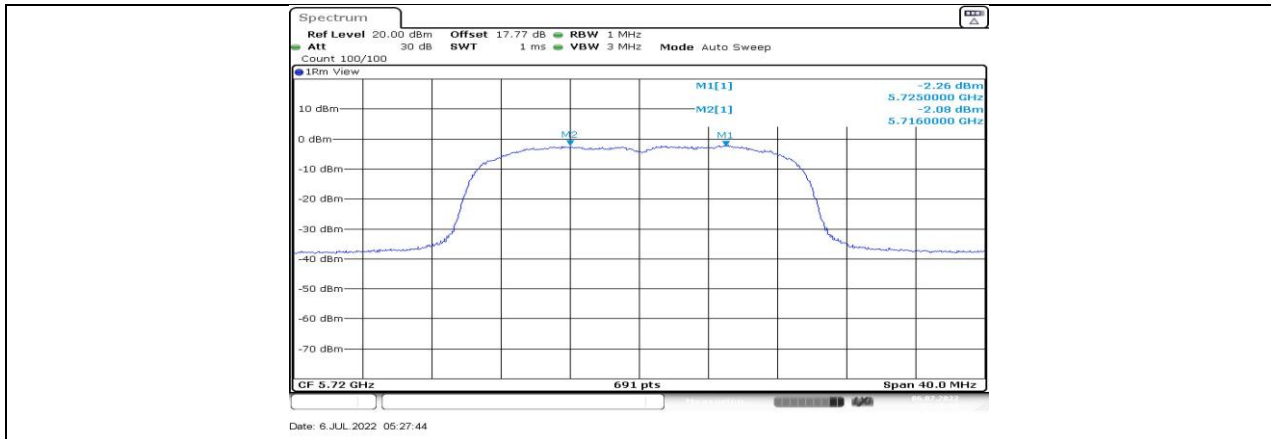
11AX20SISO_Ant1_5500



11AX20SISO_Ant1_5580



11AX20SISO_Ant1_5700



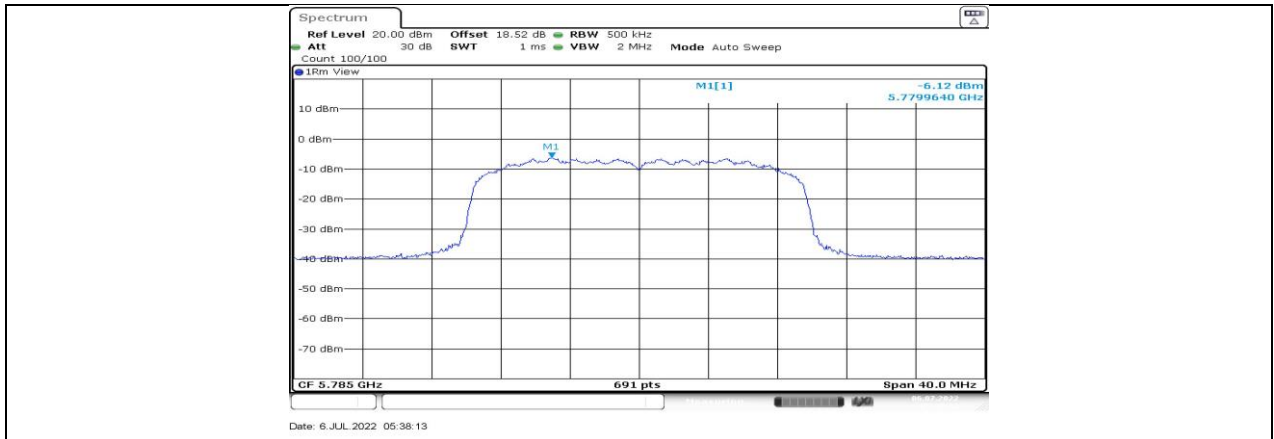
11AX20SISO_Ant1_5720_UNII-2C



11AX20SISO_Ant1_5720_UNII-3



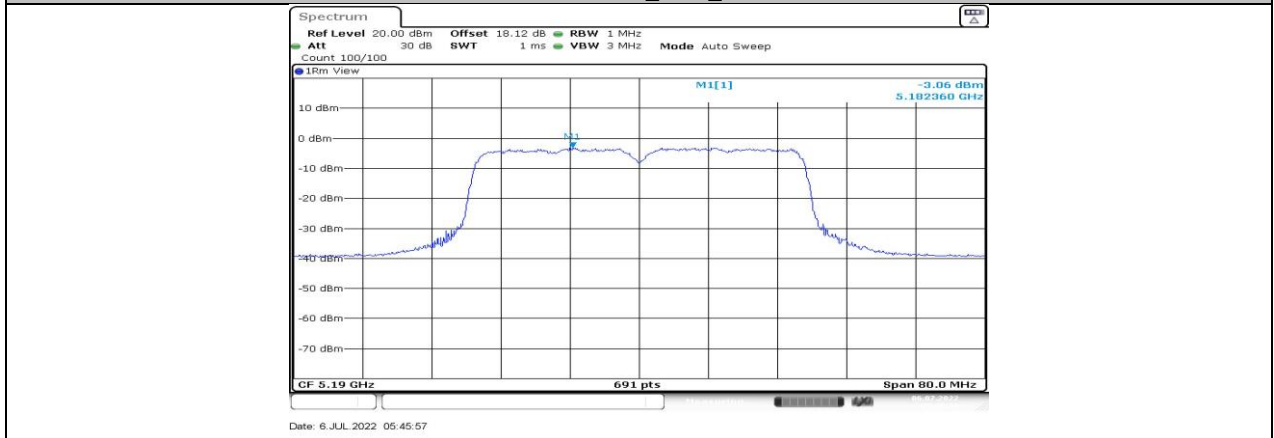
11AX20SISO_Ant1_5745



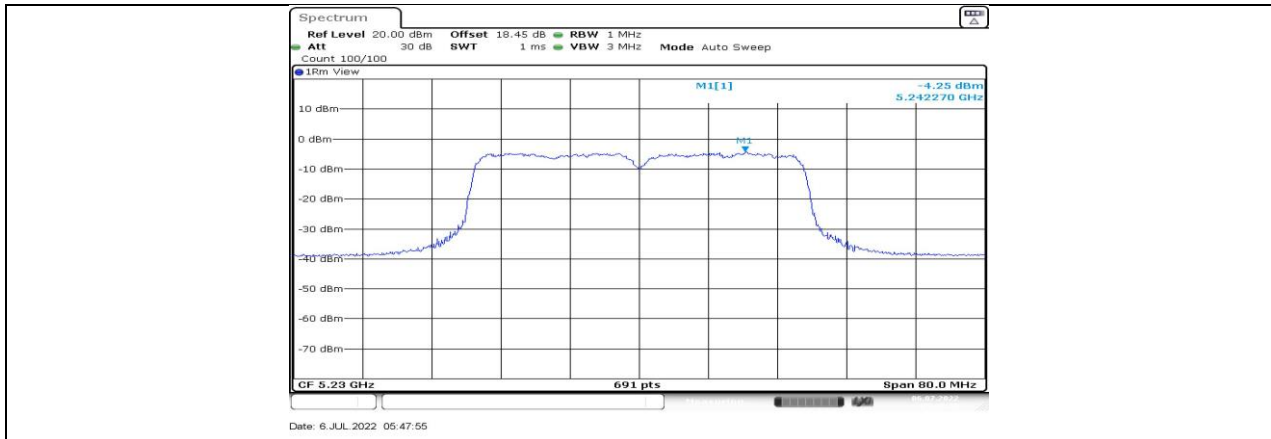
11AX20SISO_Ant1_5785



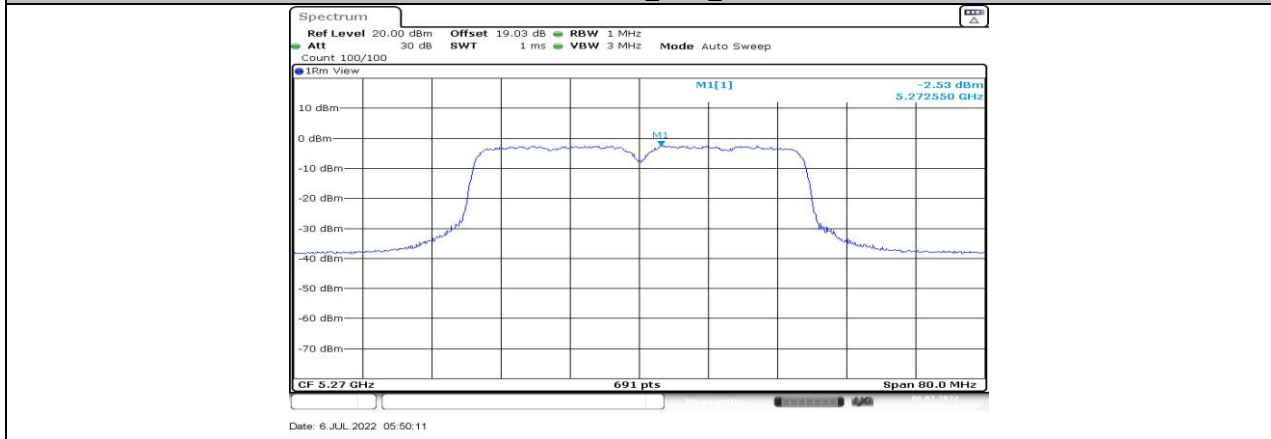
11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5190



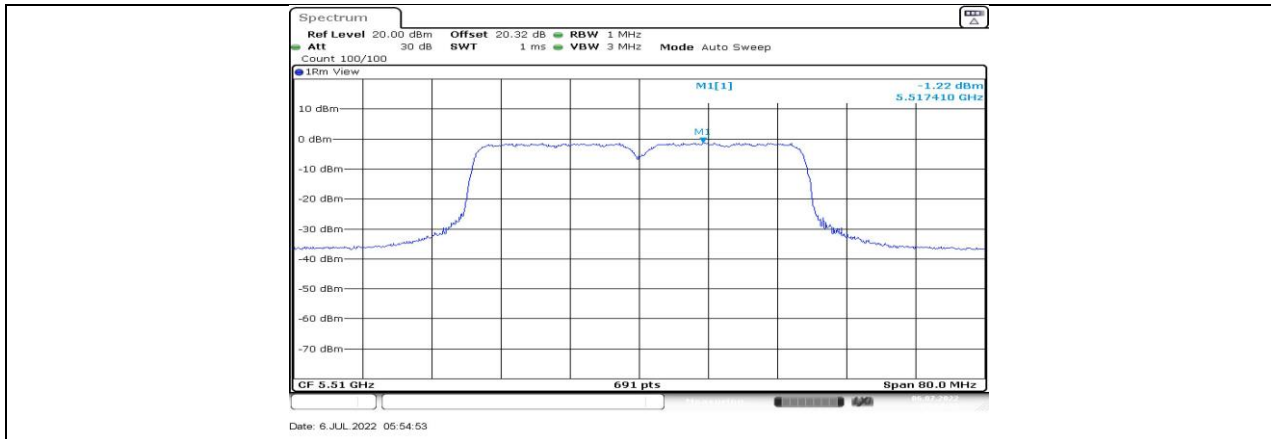
11AX40SISO_Ant1_5230



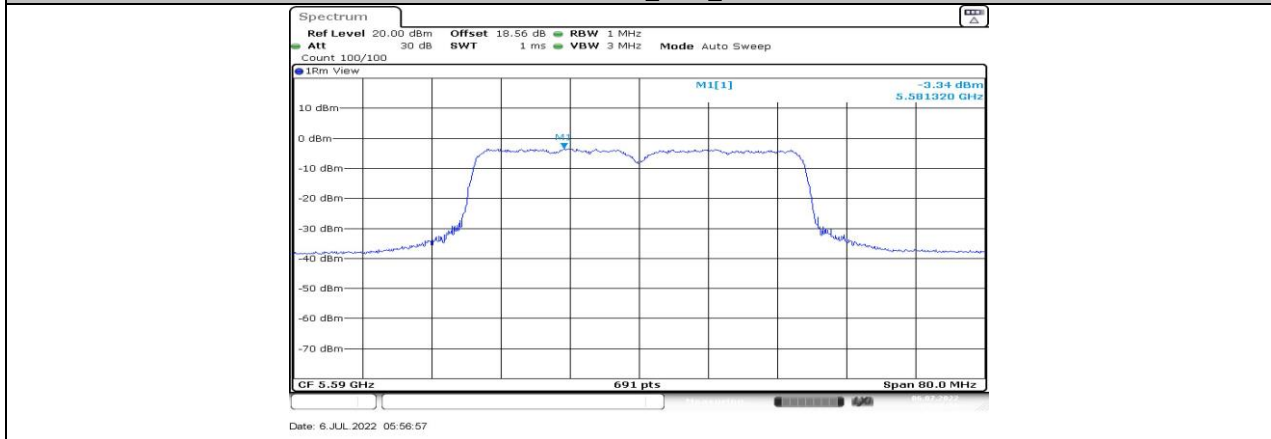
11AX40SISO_Ant1_5270



11AX40SISO_Ant1_5310



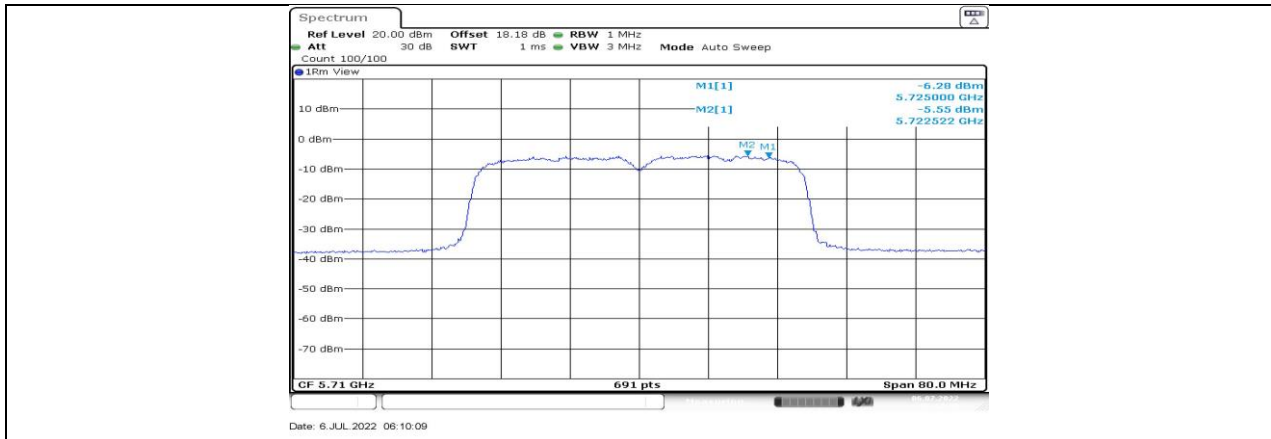
11AX40SISO_Ant1_5510



11AX40SISO_Ant1_5590



11AX40SISO_Ant1_5670



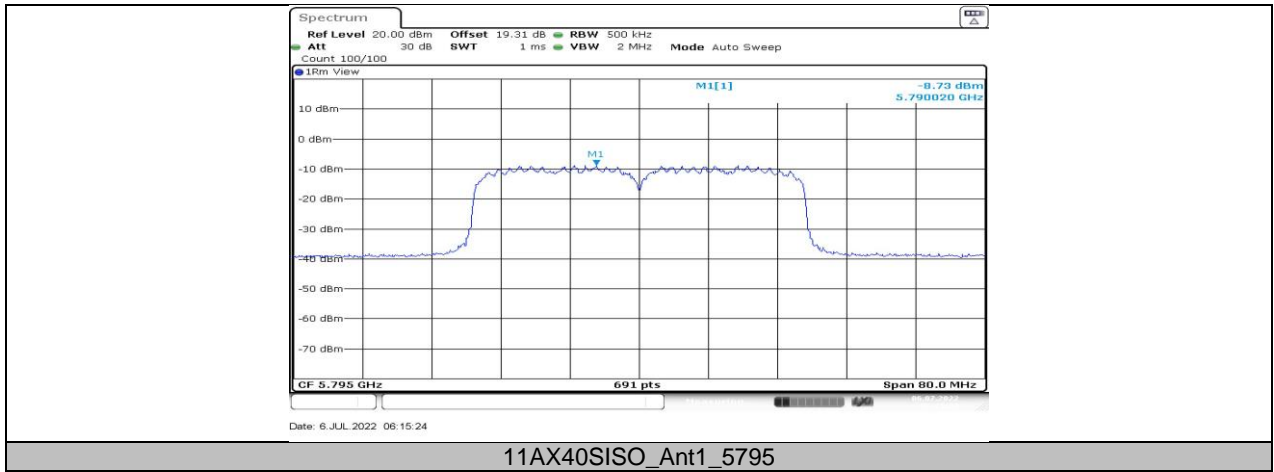
11AX40SISO_Ant1_5710_UNII-2C



11AX40SISO_Ant1_5710_UNII-3



11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795



11.6. APPENDIX D: FREQUENCY STABILITY

11.6.1. Test Result

Frequency Error vs. Voltage									
802.11a20:5200MHz									
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	5200.0109	2.09	5199.9867	-2.56	5200.0015	0.28	5200.0005	0.10
TN	VN	5199.9937	-1.22	5200.0079	1.52	5200.0201	3.87	5200.0207	3.98
TN	VH	5199.9809	-3.67	5200.0177	3.41	5200.0001	0.02	5200.0056	1.08
Frequency Error vs. Temperature									
802.11a20:5200MHz									
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)
40	VN	5199.9992	-0.15	5200.0228	4.39	5200.0240	4.62	5199.9916	-1.62
30	VN	5200.0100	1.92	5199.9975	-0.47	5199.9942	-1.12	5199.9856	-2.77
20	VN	5199.9972	-0.54	5199.9992	-0.16	5200.0134	2.57	5199.9996	-0.07
10	VN	5199.9856	-2.78	5199.9976	-0.46	5200.0221	4.26	5200.0179	3.45
0	VN	5199.9990	-0.20	5200.0106	2.04	5200.0117	2.26	5200.0013	0.25



Frequency Error vs. Voltage									
802.11a20:5825MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5825.0154	2.64	5824.9948	-0.89	5824.9809	-3.27	5824.9895	-1.80
TN	VN	5824.9817	-3.14	5824.9792	-3.58	5824.9949	-0.87	5825.0128	2.20
TN	VH	5824.9872	-2.20	5824.9858	-2.44	5824.9946	-0.93	5824.9918	-1.41

Frequency Error vs. Temperature									
802.11a20:5825MHz									
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	5825.0028	0.47	5824.9981	-0.33	5824.9897	-1.77	5825.0216	3.71
30	VN	5825.0232	3.99	5824.9803	-3.37	5825.0194	3.34	5824.9775	-3.86
20	VN	5824.9751	-4.27	5825.0078	1.35	5825.0187	3.21	5824.9933	-1.15
10	VN	5824.9890	-1.89	5824.9876	-2.13	5825.0114	1.95	5825.0040	0.68
0	VN	5824.9970	-0.52	5825.0107	1.83	5825.0138	2.36	5825.0176	3.02

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	1.35	1.38	0.9783	97.83	0.10	0.74	1
11N20SISO	1.26	1.29	0.9767	97.67	0.10	0.79	1
11N40SISO	0.63	0.66	0.9545	95.45	0.20	1.59	2
11AX20SISO	0.12	0.15	0.8000	80.00	0.97	8.33	10
11AX40SISO	0.08	0.11	0.7273	72.73	1.38	12.50	15

Note:

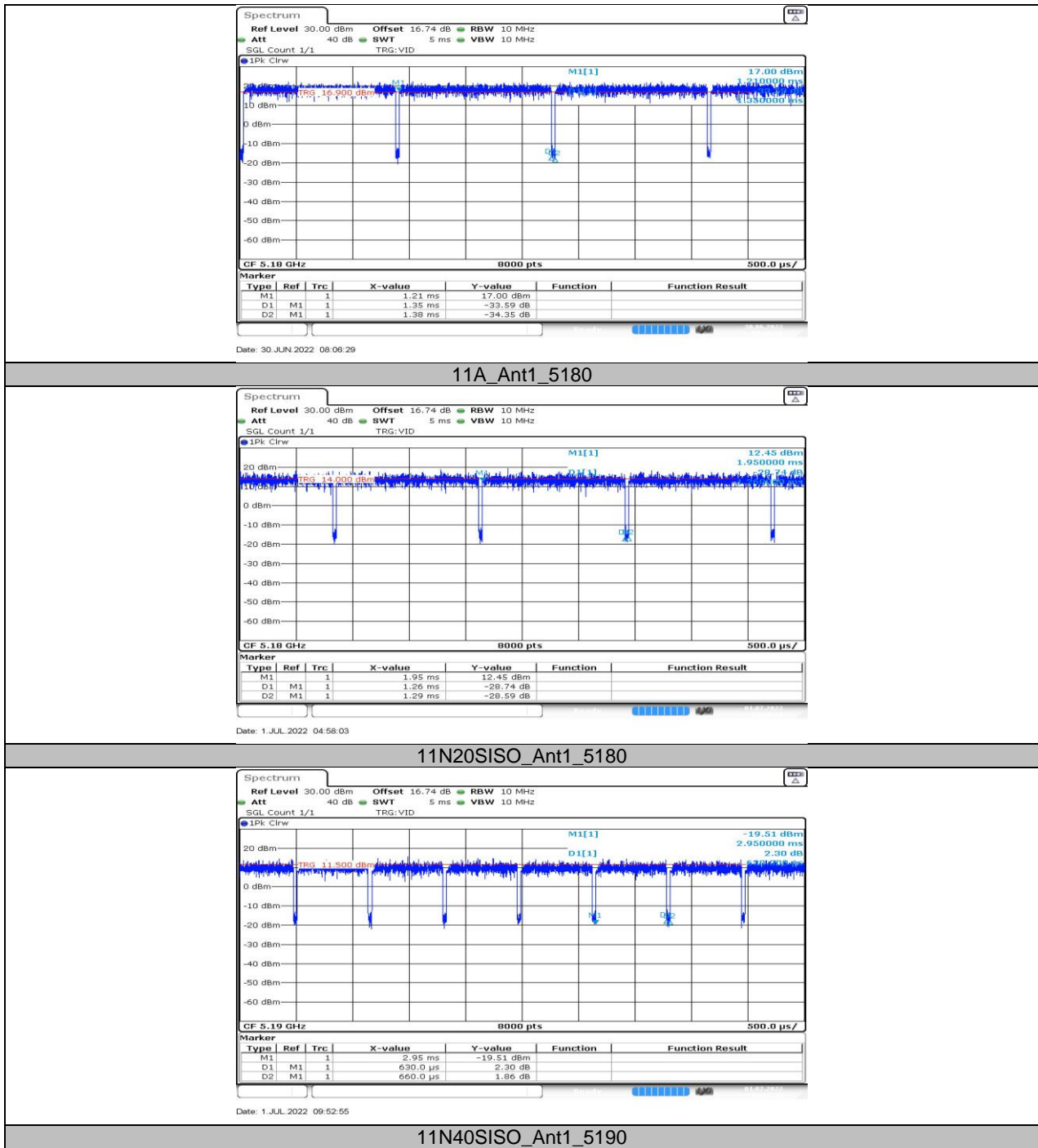
Duty Cycle Correction Factor= $10\log(1/x)$.

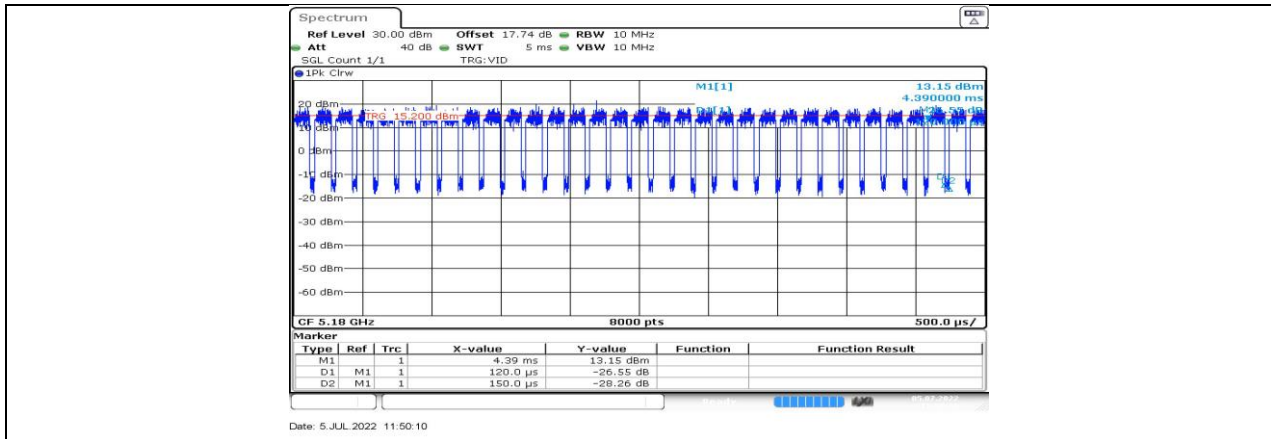
Where: x is Duty Cycle (Linear)

Where: T is On Time

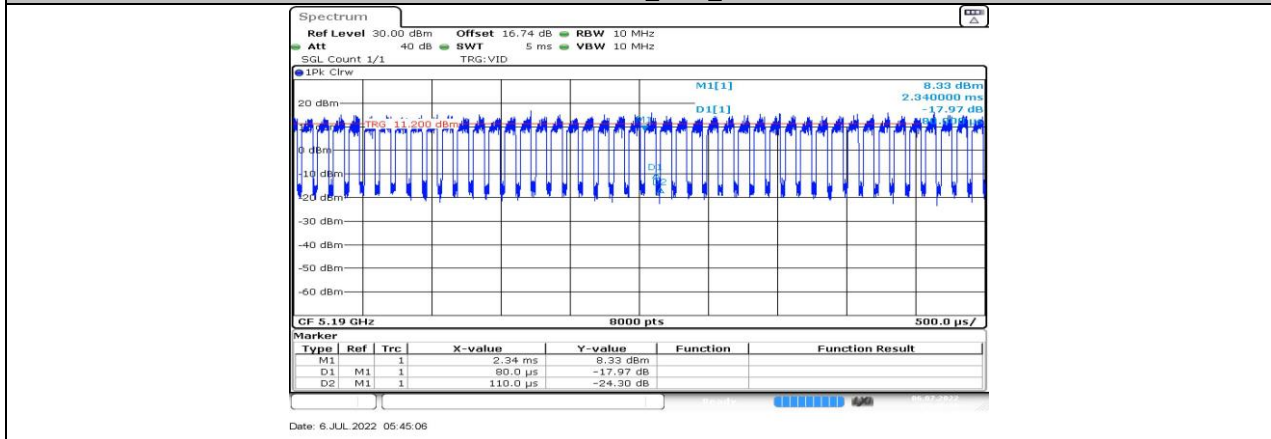
If that calculated VBW is not available on the analyzer then the next higher value should be used.

11.7.2. Test Graphs





11AX20SISO_Ant1_5180



11AX40SISO_Ant1_5190



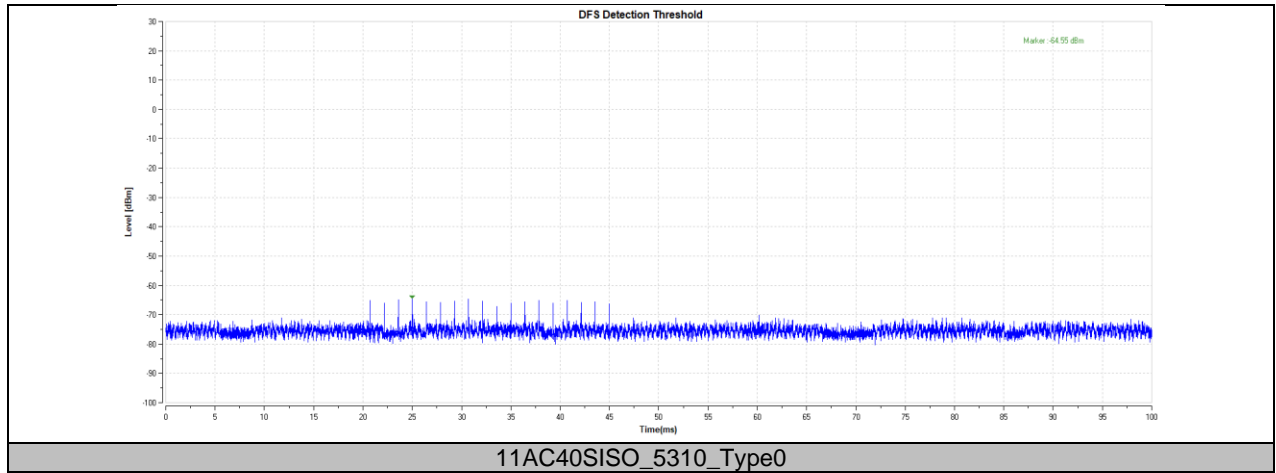
11.8. APPENDIX F: DFS DETECTION THRESHOLDS

11.8.1. Test Result

Test Mode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AX40SISO	5310	Type0	-64.55	-62.00	PASS



11.8.2. Test Graphs





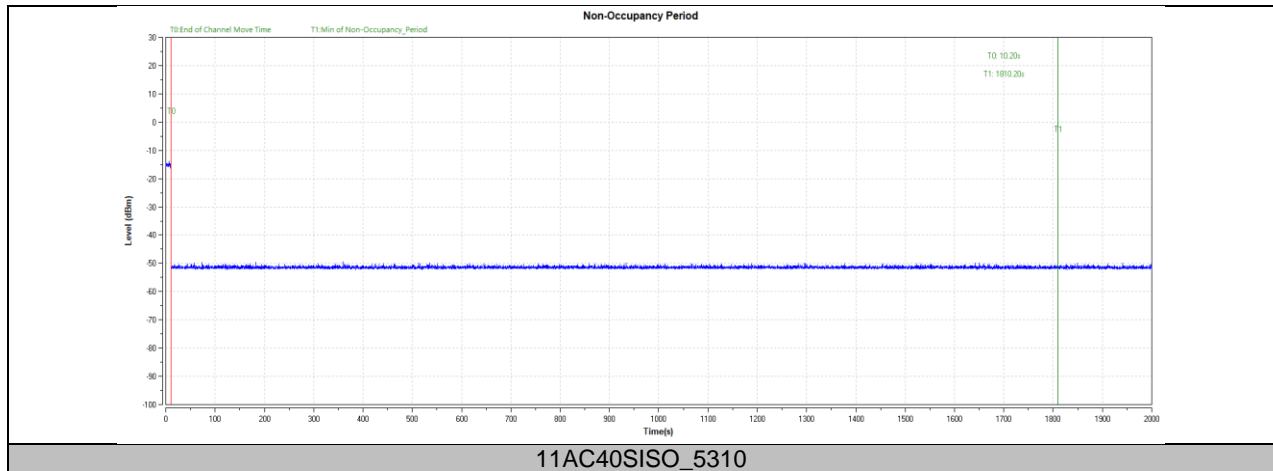
11.9. APPENDIX G: NON-OCCUPANCY PERIOD

Test Result

Test Mode	Channel	Result	Limit[s]	Verdict
11AX40SISO	5310	see test graph	≥1800	PASS



11.9.1. Test Graphs





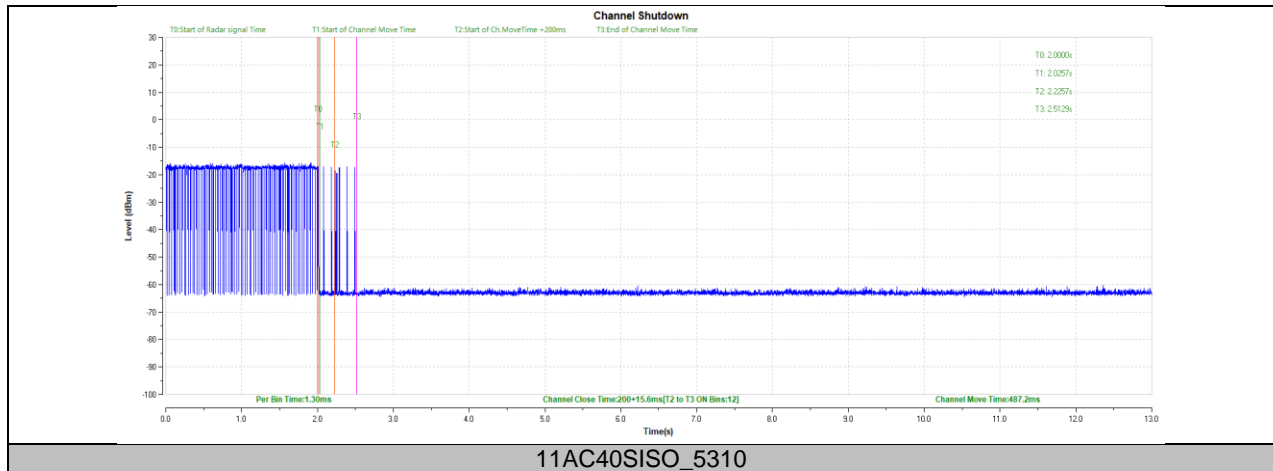
11.10. APPENDIX H: CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME

11.10.1. Test Result

Test Mode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AX40SISO	5310	200+15.6	200+60	487.2	10000	PASS



11.10.2. Test Graphs



END OF REPORT