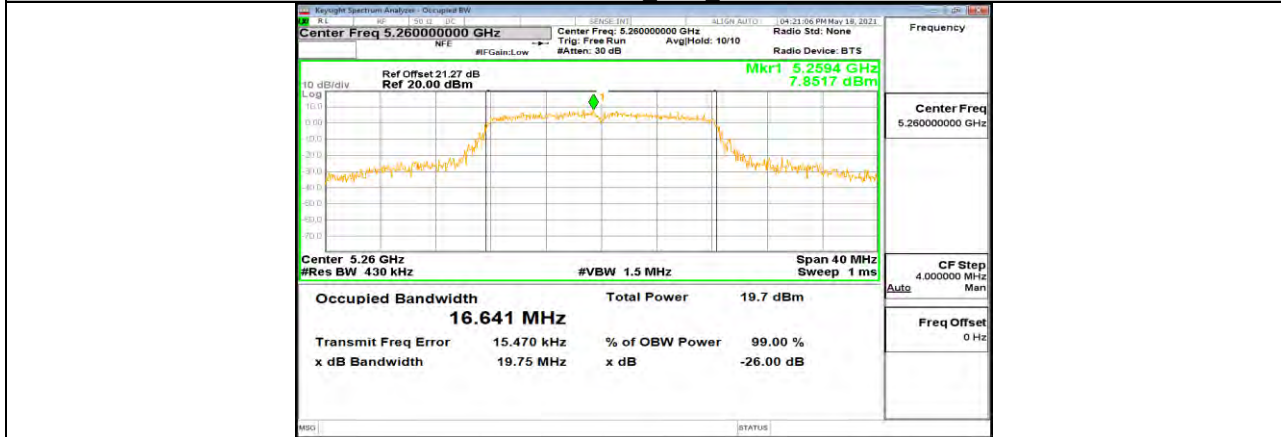
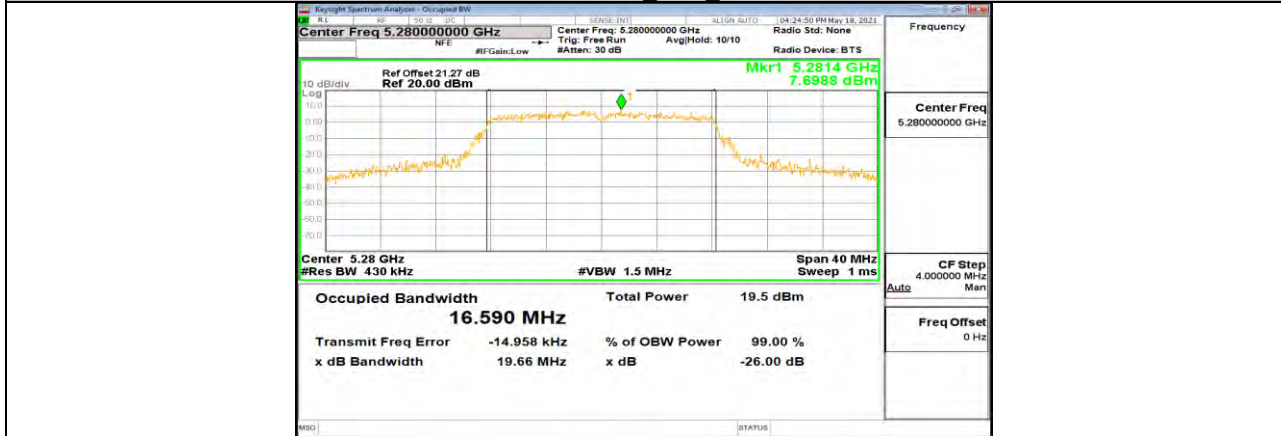


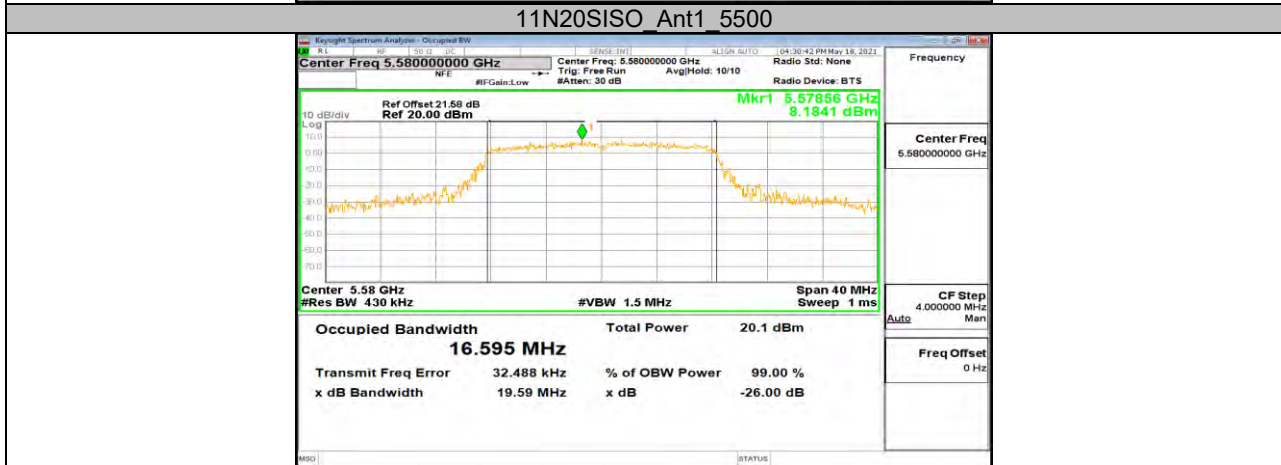
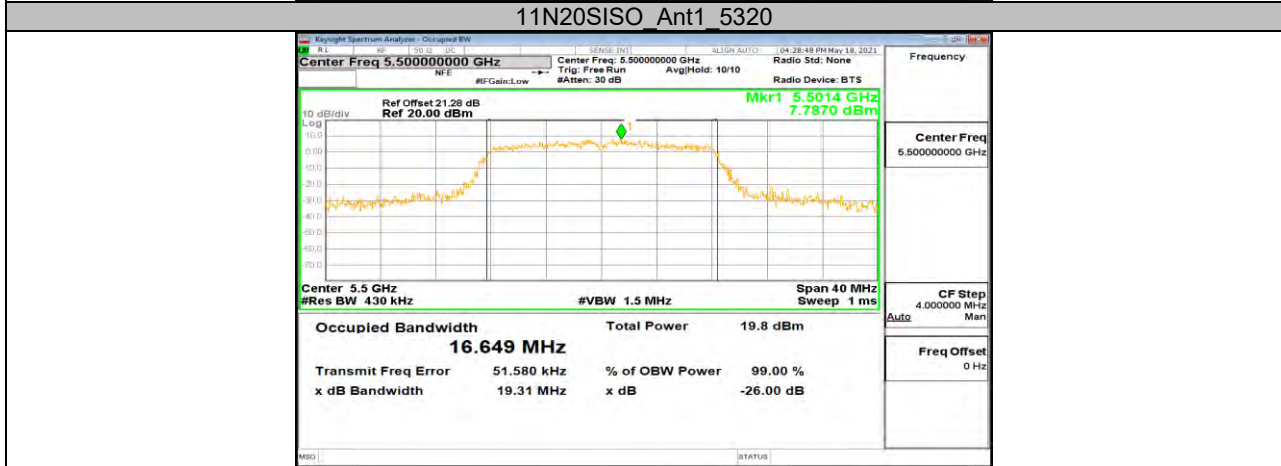
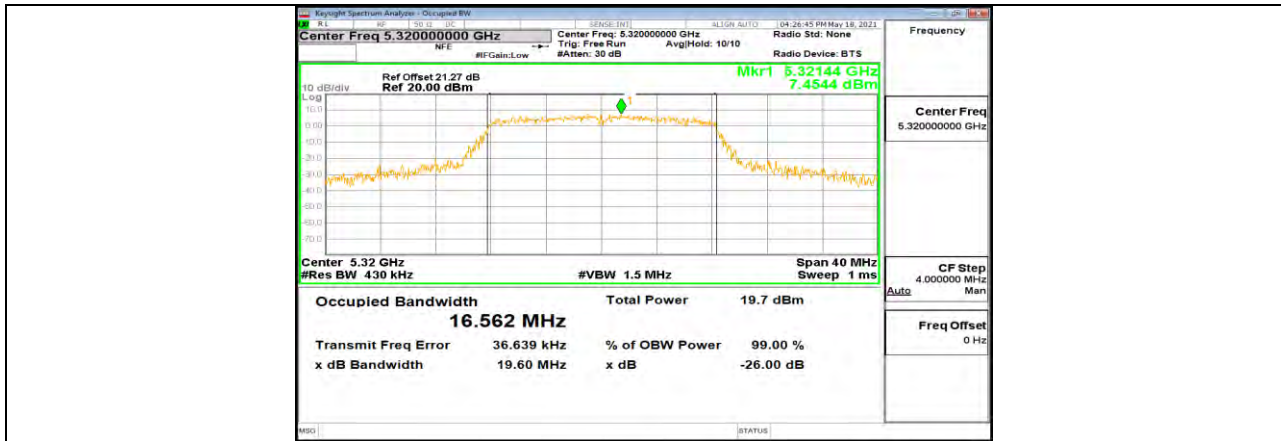
11N20SISO Ant1 5240

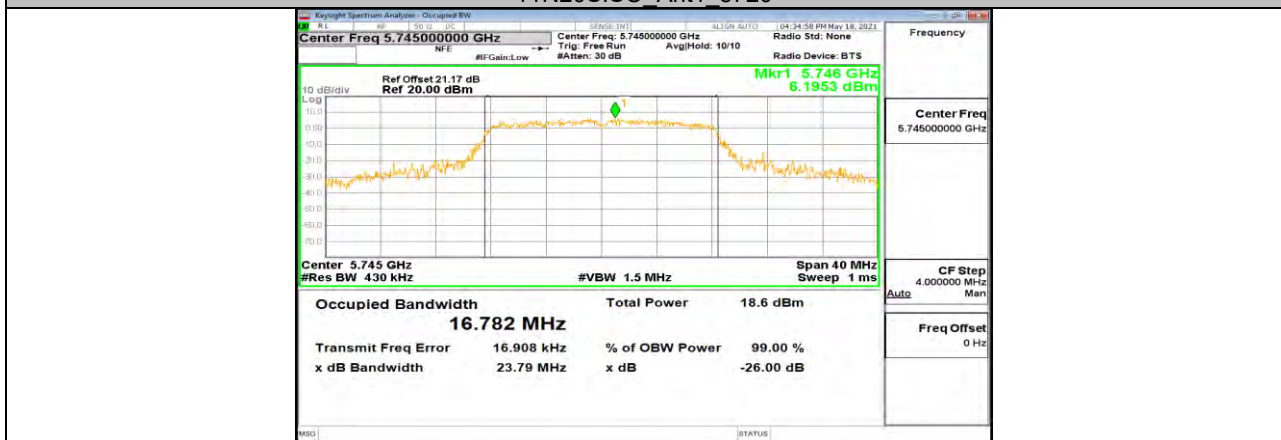
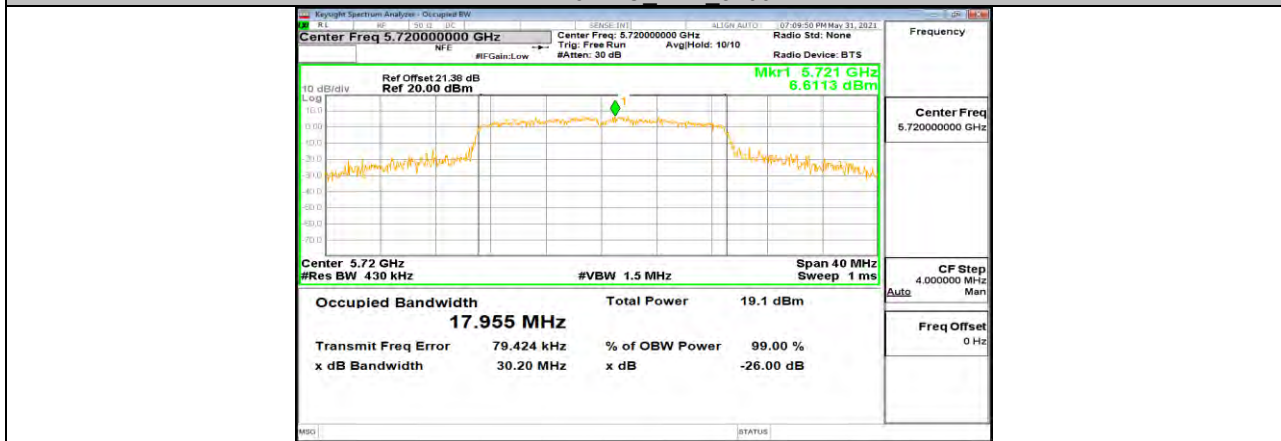
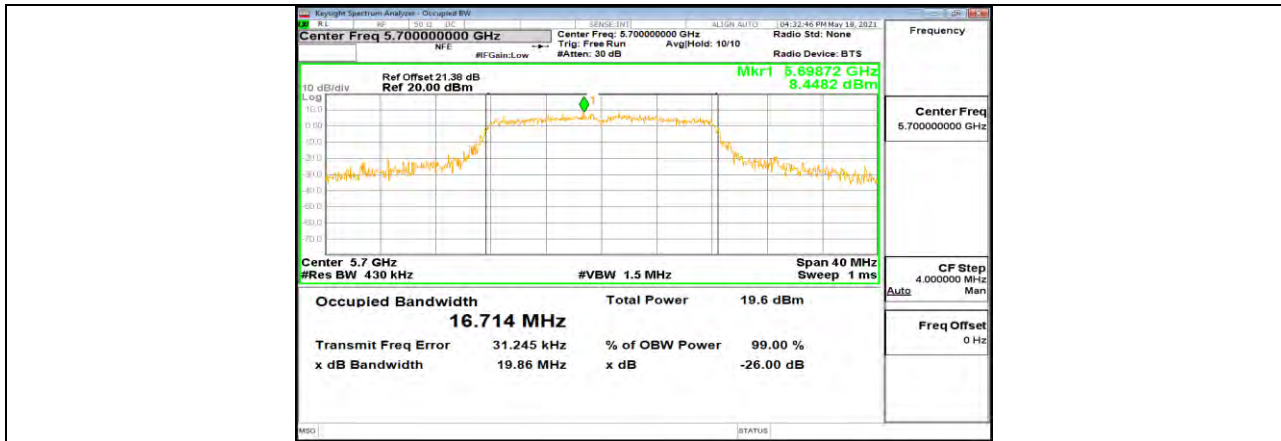


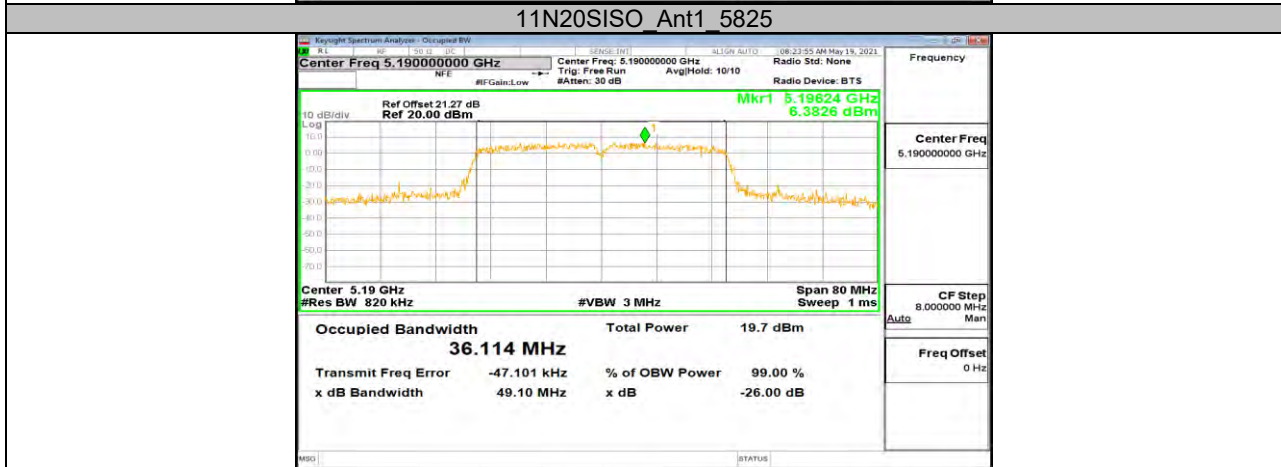
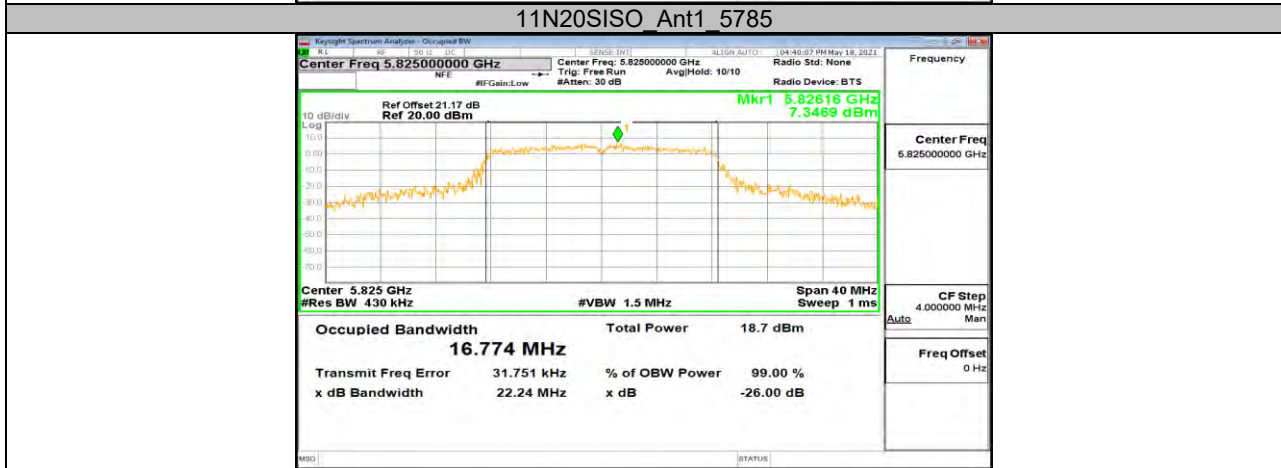
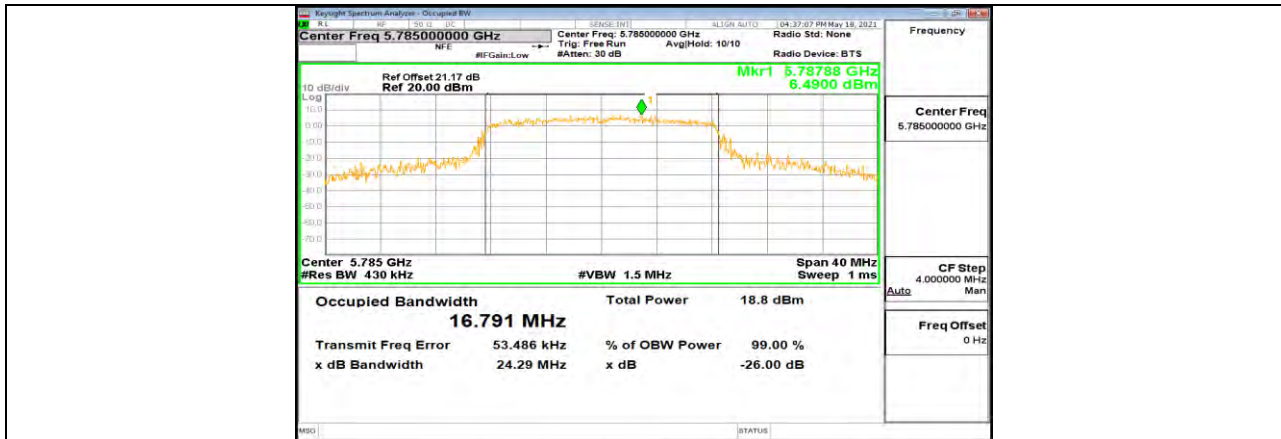
11N20SISO Ant1 5260

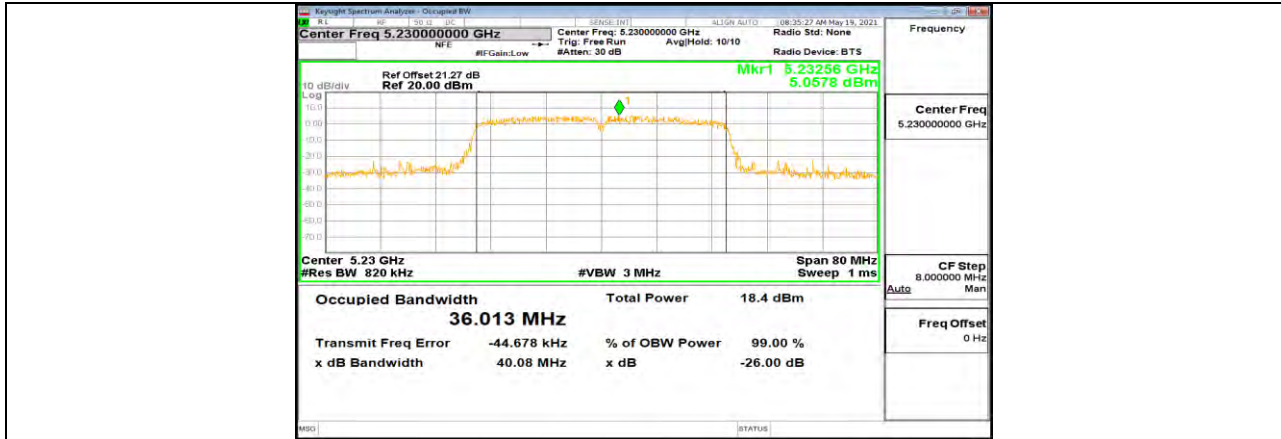


11N20SISO Ant1 5280

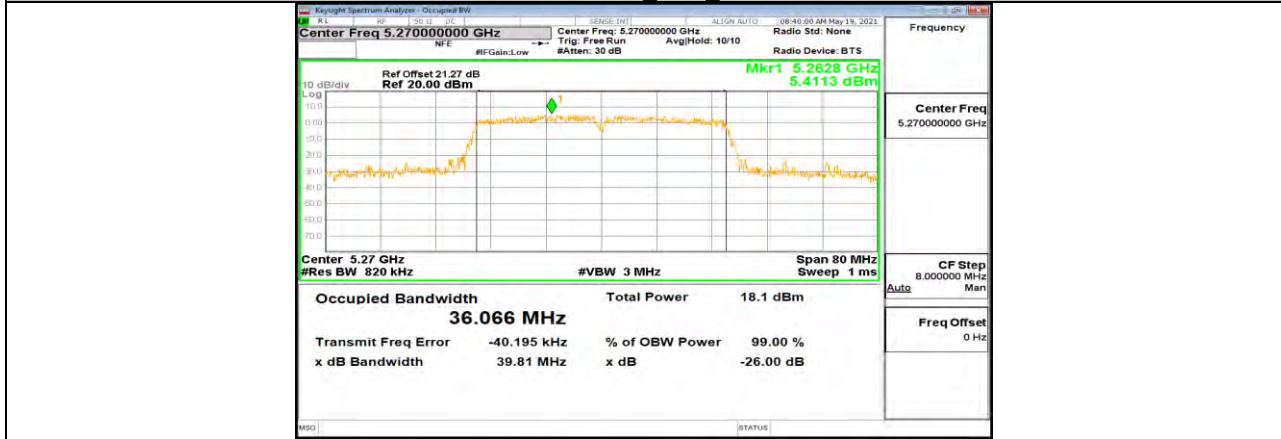




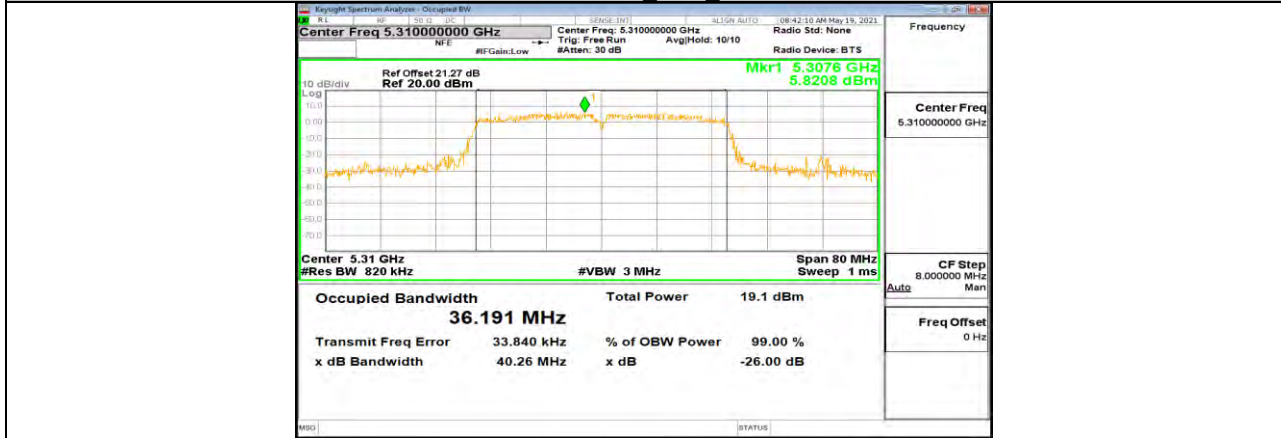




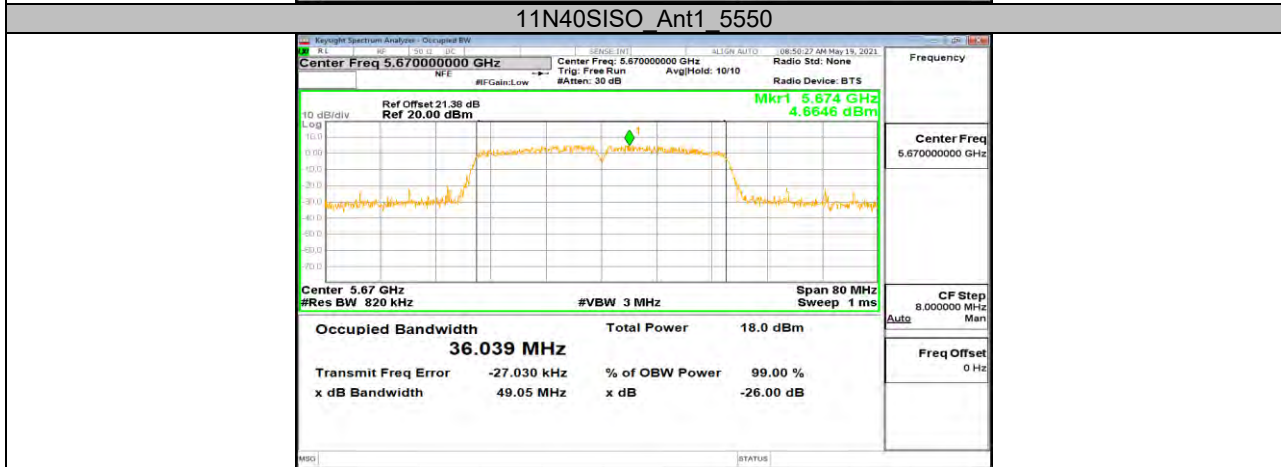
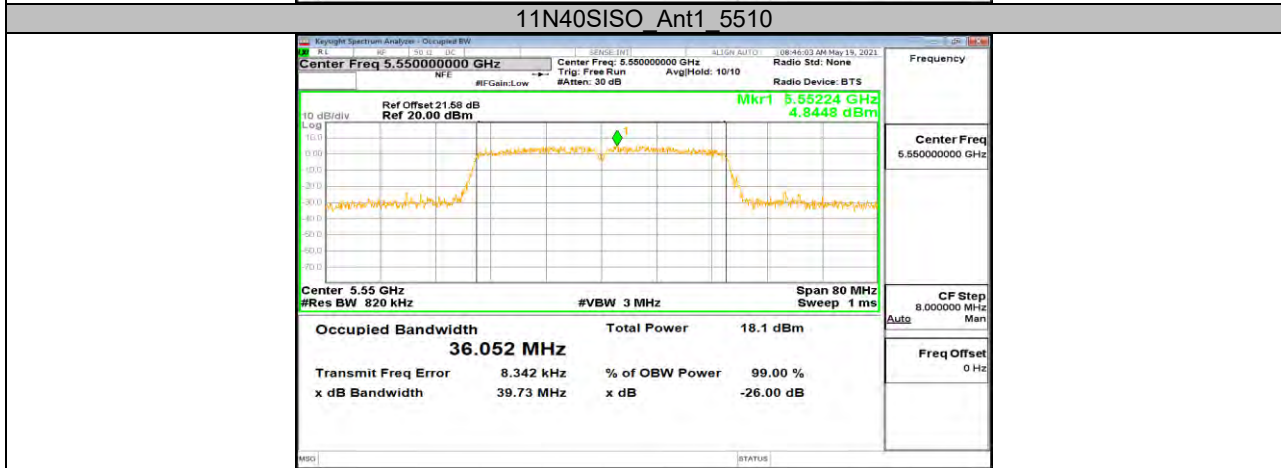
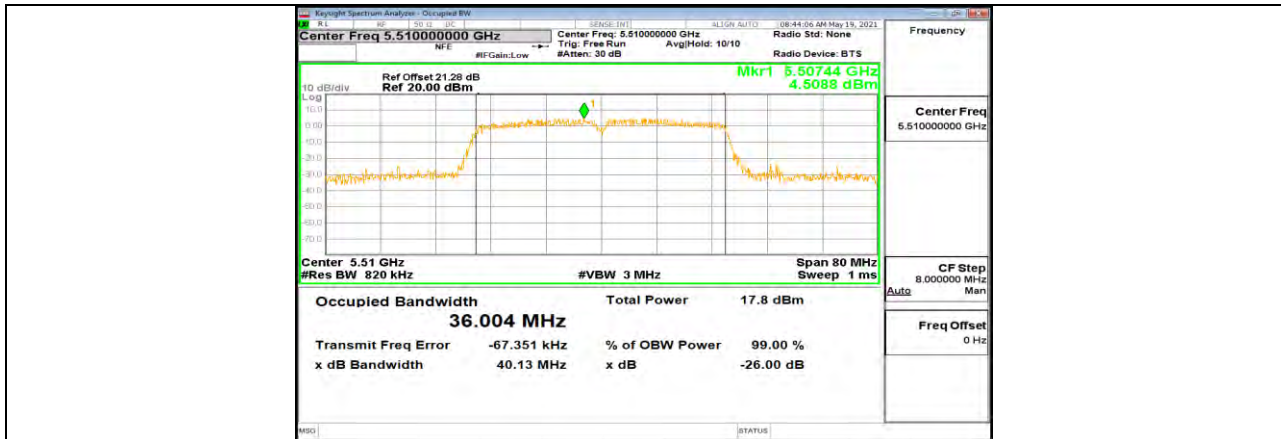
11N40SISO Ant1 5230

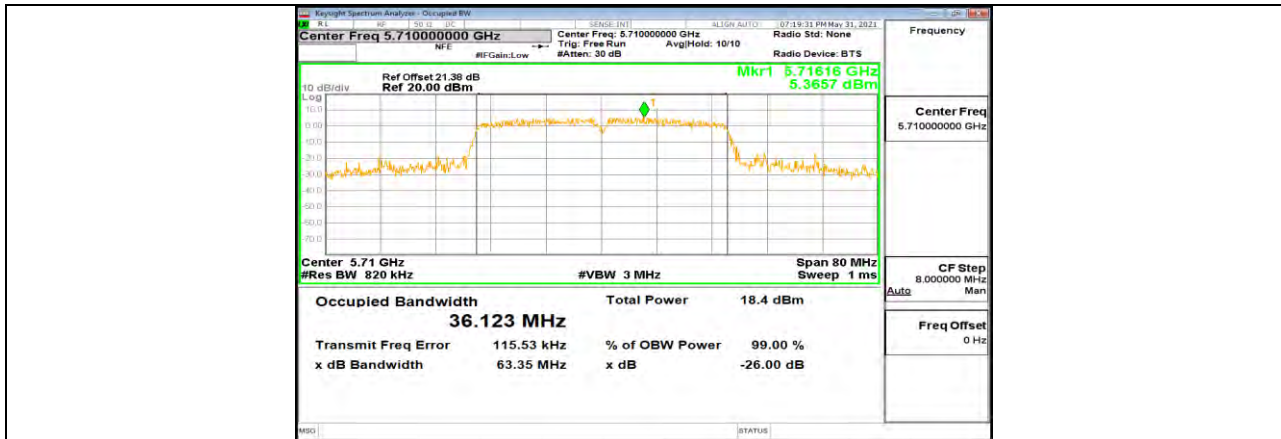


11N40SISO Ant1 5270

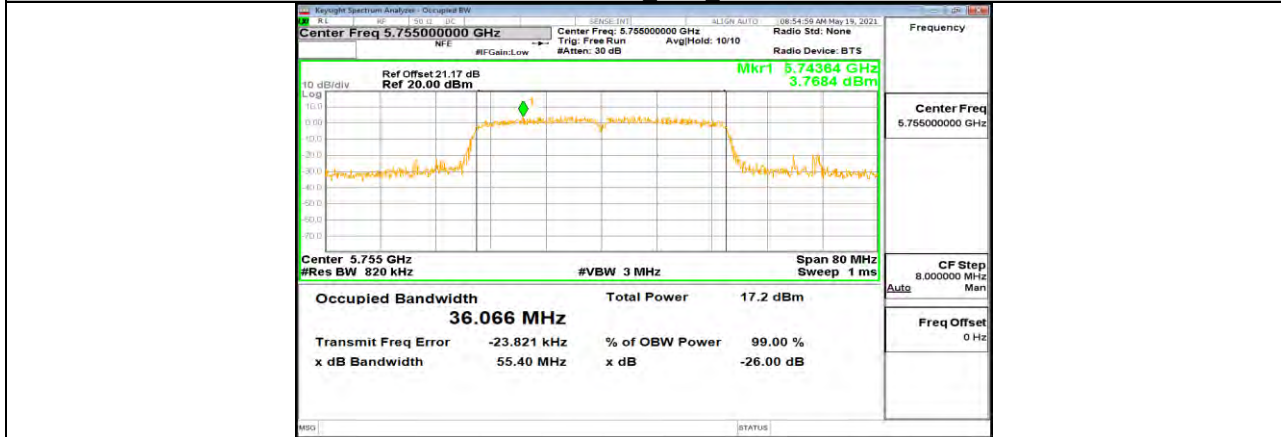


11N40SISO Ant1 5310

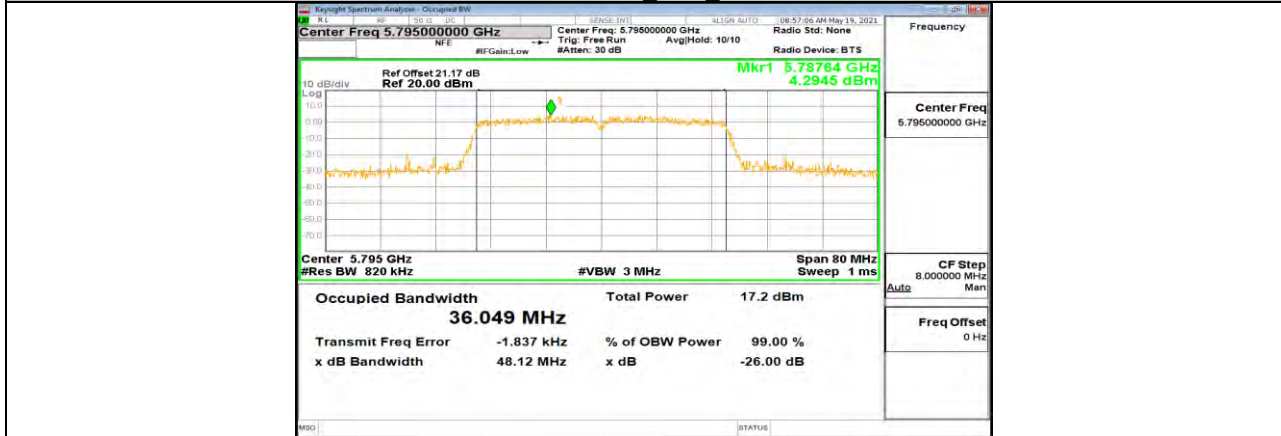




11N40SISO Ant1 5710



11N40SISO Ant1 5755



11N40SISO Ant1 5795

13.3. Appendix A3: Min emission bandwidth

13.3.1. Test Result

Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5720_UNII- 3	3.2	5725	5728.200	0.5	PASS
		5745	15.960	5736.880	5752.840	0.5	PASS
		5785	16.400	5776.840	5793.240	0.5	PASS
		5825	16.400	5816.800	5833.200	0.5	PASS
11N20SISO	Ant1	5720_UNII- 3	3.84	5725	5728.840	0.5	PASS
		5745	16.120	5737.200	5753.320	0.5	PASS
		5785	17.440	5776.200	5793.640	0.5	PASS
		5825	16.520	5816.800	5833.320	0.5	PASS
11N40SISO	Ant1	5710_UNII- 3	2.52	5725	5727.520	0.5	PASS
		5755	35.280	5737.320	5772.600	0.5	PASS
		5795	35.520	5777.320	5812.840	0.5	PASS

13.3.2. Test Graphs

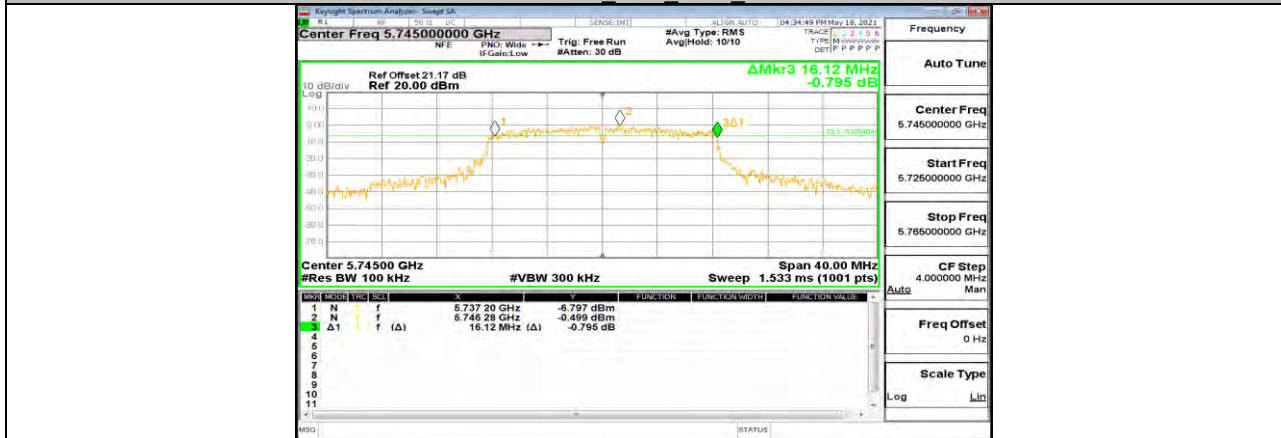




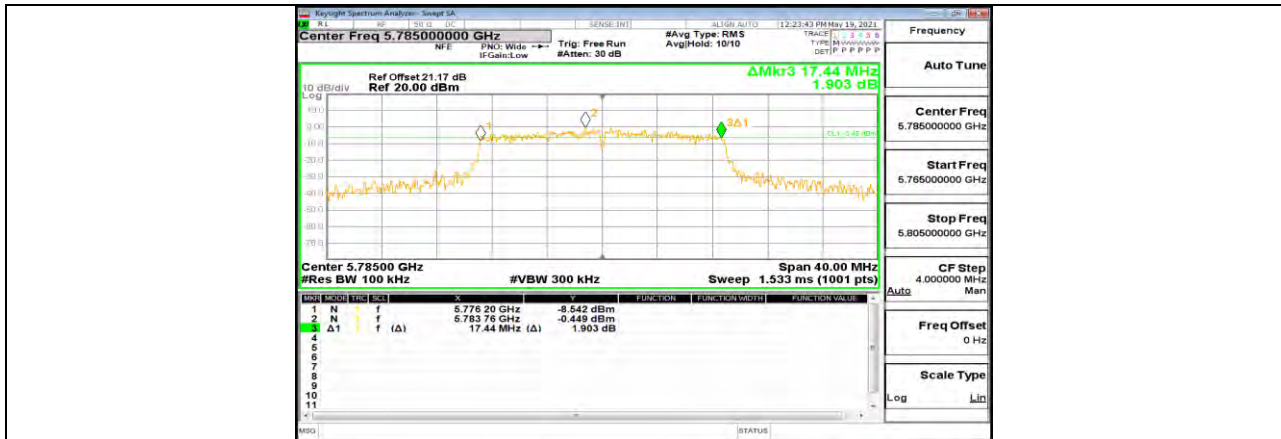
11A Ant1 5825



11N20SISO Ant1 5720 UNII-3



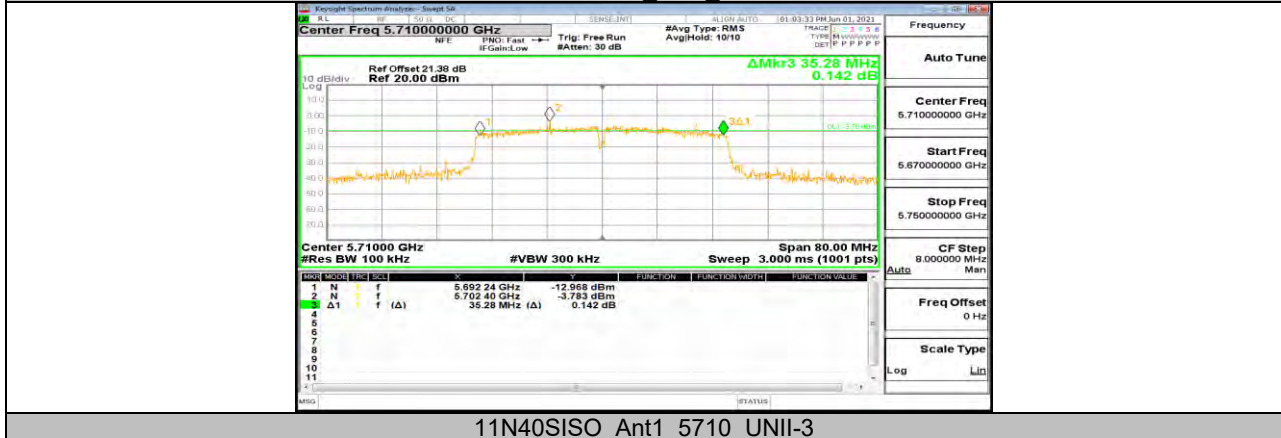
11N20SISO Ant1 5745



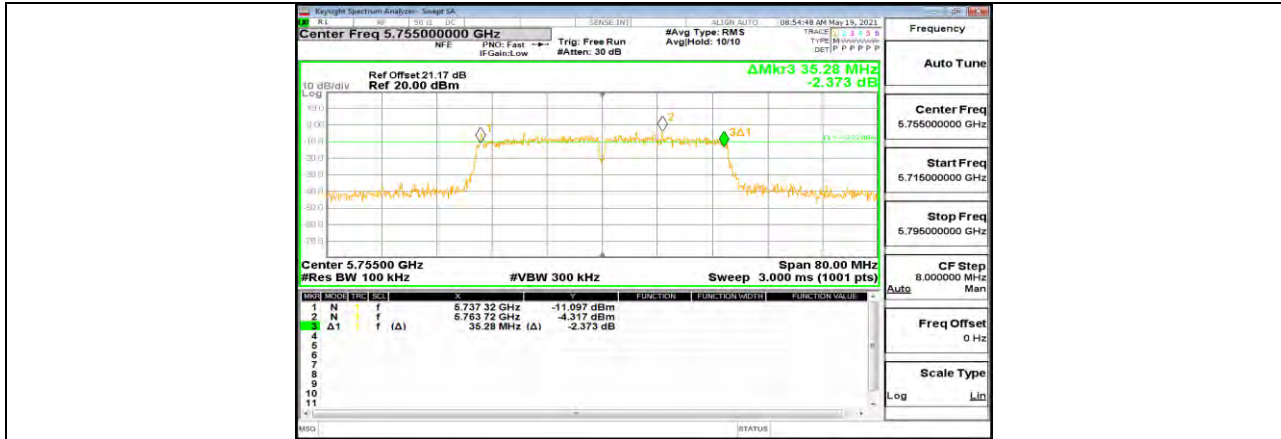
11N20SISO Ant1 5785



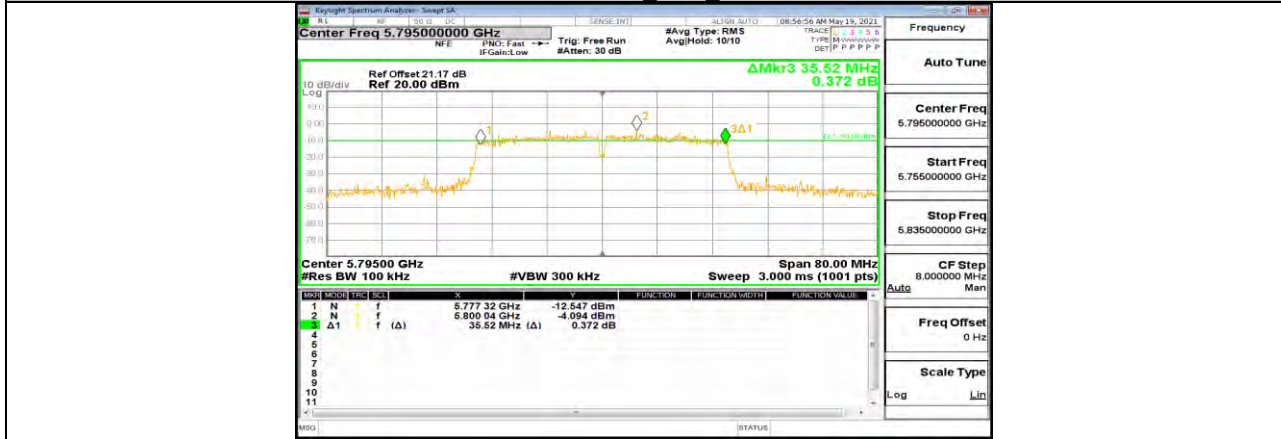
11N20SISO Ant1 5825



11N40SISO Ant1 5710 UNII-3



11N40SISO Ant1 5755



11N40SISO Ant1 5795



13.4. Appendix B: Maximum AVG conducted output power

13.4.1. Test Result

Test Mode	Antenna	Channel	Power [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	ISED Limit [dBm]	Verdict
11A	Ant1	5180	15.56	<=23.98	---	19.73	<=22.22	PASS
		5200	16.13	<=23.98	---	20.30	<=22.19	PASS
		5240	15.66	<=23.98	---	19.83	<=22.22	PASS
		5260	15.07	<=23.82	<=23.24	19.24	<=29.24	PASS
		5280	15.29	<=23.88	<=23.23	19.46	<=29.23	PASS
		5320	15.11	<=23.81	<=23.21	19.28	<=29.21	PASS
		5500	14.92	<=23.82	<=23.19	19.09	<=29.19	PASS
		5580	15.50	<=23.81	<=23.22	19.67	<=29.22	PASS
		5700	15.19	<=23.98	<=23.21	19.36	<=29.21	PASS
		5720_UNII-2C	13.22	<=23.51	<=22.28	17.39	<=28.28	PASS
		5720_UNII-3	5.44	<=30	<=30	---	---	PASS
		5745	14.44	<=30	<=30	---	---	PASS
		5785	14.32	<=30	<=30	---	---	PASS
		5825	14.14	<=30	<=30	---	---	PASS
11N20SISO	Ant1	5180	15.83	<=23.98	---	20.0	<=22.21	PASS
		5200	15.63	<=23.98	---	19.8	<=22.23	PASS
		5240	15.31	<=23.98	---	19.48	<=22.23	PASS
		5260	15.06	<=23.91	<=23.21	19.23	<=29.21	PASS
		5280	15.19	<=23.90	<=23.20	19.36	<=29.20	PASS
		5320	15.16	<=23.87	<=23.19	19.33	<=29.19	PASS
		5500	15.19	<=23.76	<=23.21	19.36	<=29.21	PASS
		5580	15.62	<=23.86	<=23.20	19.79	<=29.20	PASS
		5700	15.14	<=23.90	<=23.23	19.31	<=29.23	PASS
		5720_UNII-2C	13.34	<=22.96	<=22.43	17.51	<=28.43	PASS
		5720_UNII-3	6.36	<=30	<=30	---	---	PASS
		5745	14.20	<=30	<=30	---	---	PASS
		5785	14.29	<=30	<=30	---	---	PASS
		5825	14.18	<=30	<=30	---	---	PASS
11N40SISO	Ant1	5190	14.58	<=23.98	---	18.75	<=23	PASS
		5230	13.35	<=23.98	---	17.52	<=23	PASS
		5270	12.82	<=23.98	<=23.98	16.99	<=30	PASS
		5310	13.81	<=23.98	<=23.98	17.98	<=30	PASS
		5510	12.57	<=23.98	<=23.98	16.74	<=30	PASS
		5550	12.82	<=23.98	<=23.98	16.99	<=30	PASS
		5670	12.90	<=23.98	<=23.98	17.07	<=30	PASS
		5710_UNII-2C	12.89	<=23.98	<=23.98	17.06	<=30	PASS
		5710_UNII-3	0.92	<=30	<=30	---	---	PASS
		5755	11.92	<=30	<=30	---	---	PASS
		5795	11.91	<=30	<=30	---	---	PASS

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

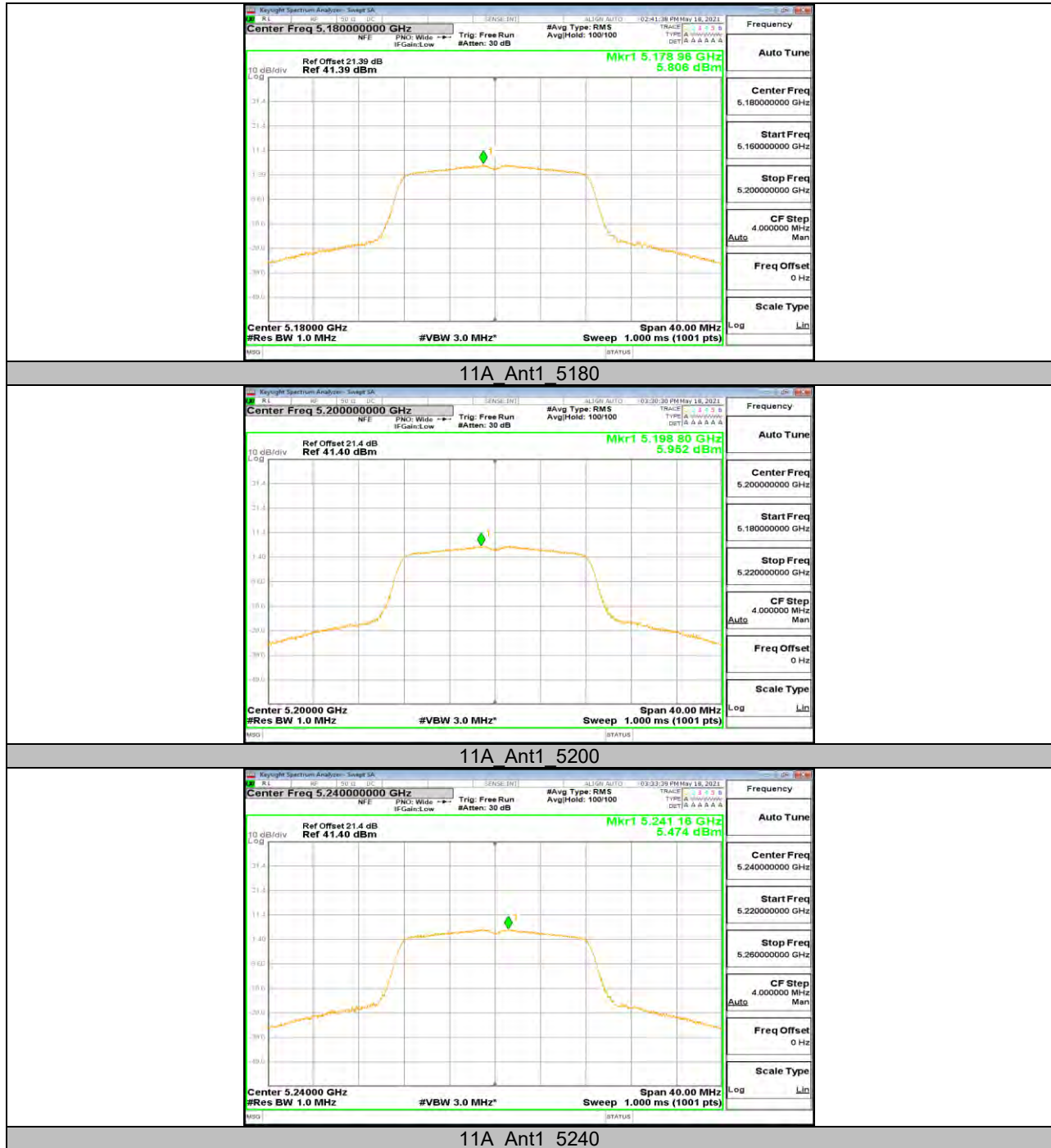


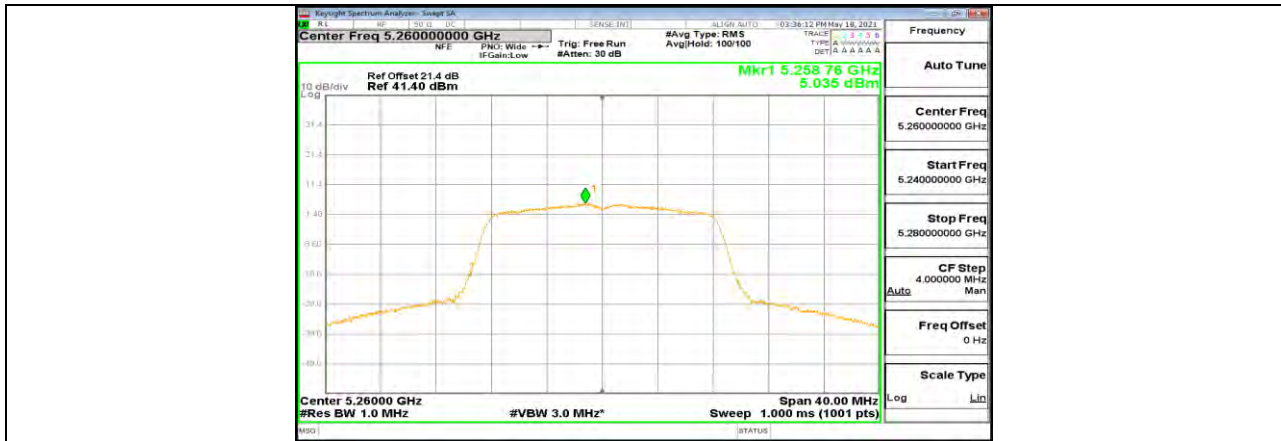
13.5. Appendix C: Maximum power spectral density
13.5.1. Test Result

Test Mode	Antenna	Channel	Power [dBm/MHz]	Limit [dBm/MHz]	EIRP [dBm/MHz]	ISED Limit [dBm/MHz]	Verdict
11A	Ant1	5180	5.81	<=11	9.31	<=10	PASS
		5200	5.95	<=11	9.45	<=10	PASS
		5240	5.47	<=11	8.97	<=10	PASS
		5260	5.04	<=11	---	---	PASS
		5280	5.07	<=11	---	---	PASS
		5320	4.7	<=11	---	---	PASS
		5500	4.83	<=11	---	---	PASS
		5580	5.5	<=11	---	---	PASS
		5700	4.98	<=11	---	---	PASS
		5720_UNII-2C	3.96	<=11	---	---	PASS
		5720_UNII-3	-0.4	<=11	---	---	PASS
		5745	1.71	<=30	---	---	PASS
		5785	1.25	<=30	---	---	PASS
		5825	1.14	<=30	---	---	PASS
11N20SISO	Ant1	5180	5.96	<=11	9.46	<=10	PASS
		5200	5.4	<=11	8.90	<=10	PASS
		5240	5.38	<=11	8.88	<=10	PASS
		5260	4.93	<=11	---	---	PASS
		5280	5.08	<=11	---	---	PASS
		5320	5	<=11	---	---	PASS
		5500	5.21	<=11	---	---	PASS
		5580	5.44	<=11	---	---	PASS
		5700	5.05	<=11	---	---	PASS
		5720_UNII-2C	4.15	<=11	---	---	PASS
		5720_UNII-3	-0.34	<=11	---	---	PASS
		5745	1.49	<=30	---	---	PASS
		5785	1.71	<=30	---	---	PASS
		5825	1.23	<=30	---	---	PASS
11N40SISO	Ant1	5190	0.68	<=11	4.18	<=10	PASS
		5230	-0.22	<=11	3.28	<=10	PASS
		5270	-0.74	<=11	---	---	PASS
		5310	-0.1	<=11	---	---	PASS
		5510	-1.19	<=11	---	---	PASS
		5550	-0.8	<=11	---	---	PASS
		5670	-0.73	<=11	---	---	PASS
		5710_UNII-2C	-0.53	<=11	---	---	PASS
		5710_UNII-3	-5.72	<=11	---	---	PASS
		5755	-4.86	<=30	---	---	PASS
		5795	-4.79	<=30	---	---	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.

13.5.2. Test Graphs





11A Ant1 5260



11A Ant1 5280



11A Ant1 5320



11A Ant1 5500



11A Ant1 5580



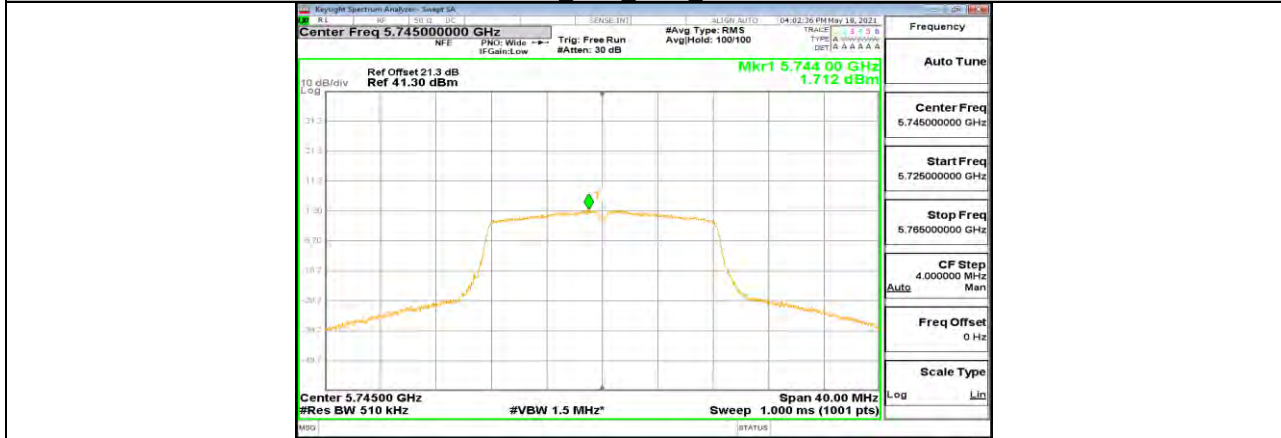
11A Ant1 5700



11A Ant1 5720 UNII-2C



11A Ant1 5720 UNII-3



11A Ant1 5745



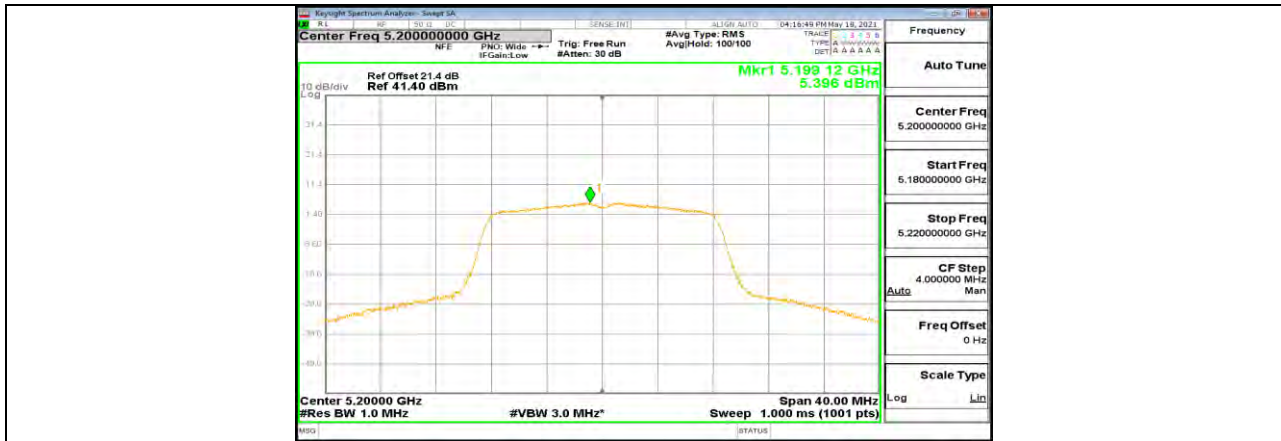
11A Ant1 5785



11A Ant1 5825



11N20SISO Ant1 5180



11N20SISO Ant1 5200



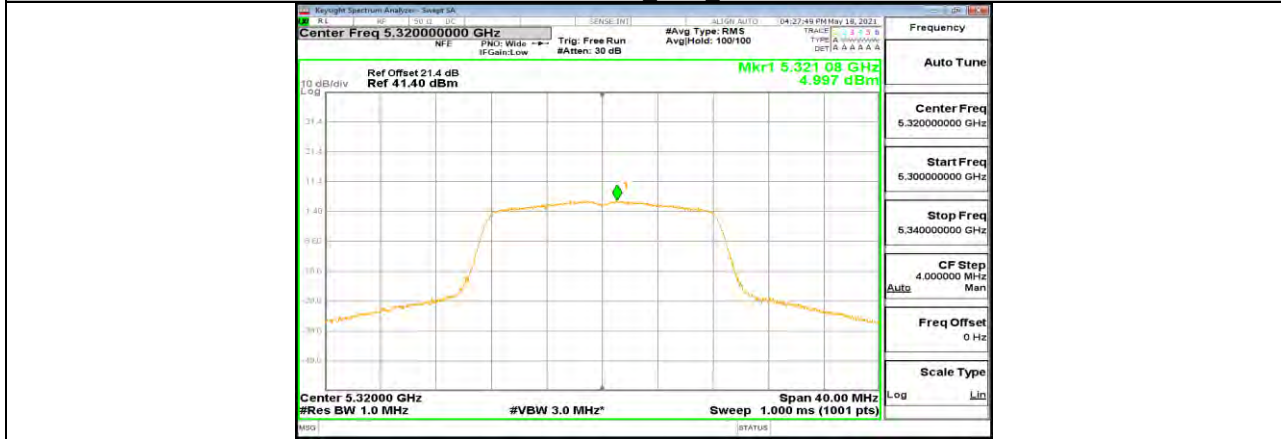
11N20SISO Ant1 5240



11N20SISO Ant1 5260



11N20SISO Ant1 5280



11N20SISO Ant1 5320



11N20SISO Ant1 5500



11N20SISO Ant1_5580



11N20SISO Ant1_5700



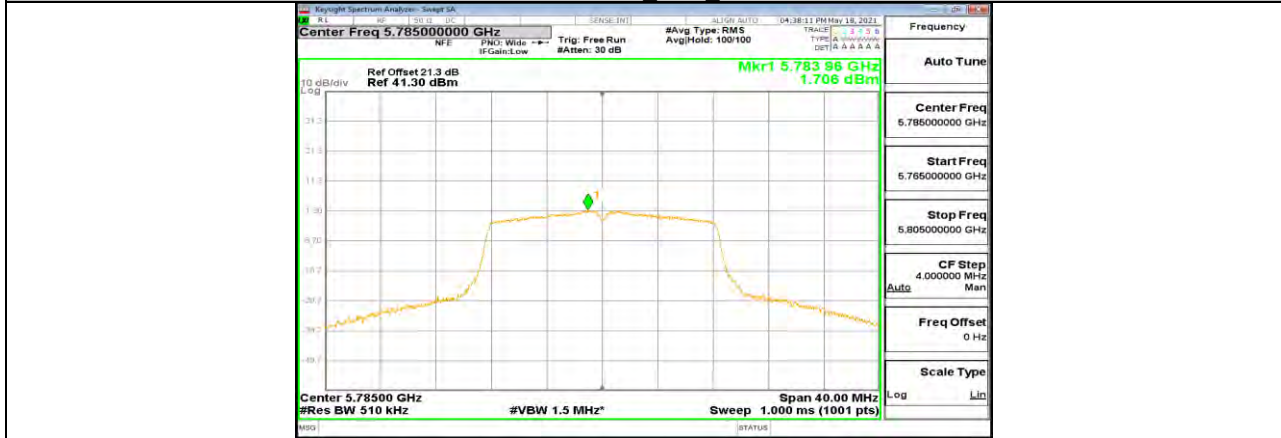
11N20SISO Ant1_5720_UNII-2C



11N20SISO Ant1 5720 UNII-3



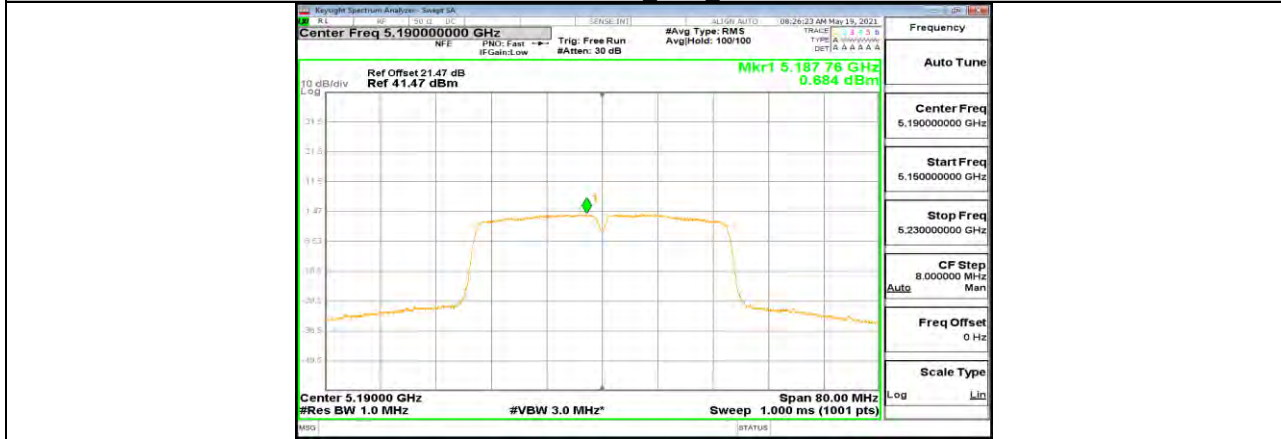
11N20SISO Ant1 5745



11N20SISO Ant1 5785



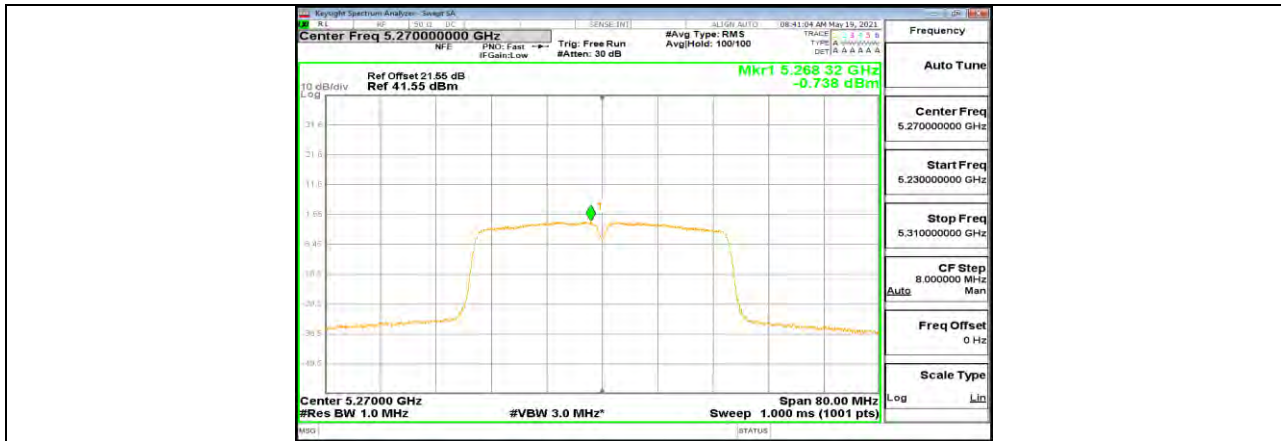
11N20SISO Ant1 5825



11N40SISO Ant1 5190



11N40SISO Ant1 5230



11N40SISO Ant1 5270



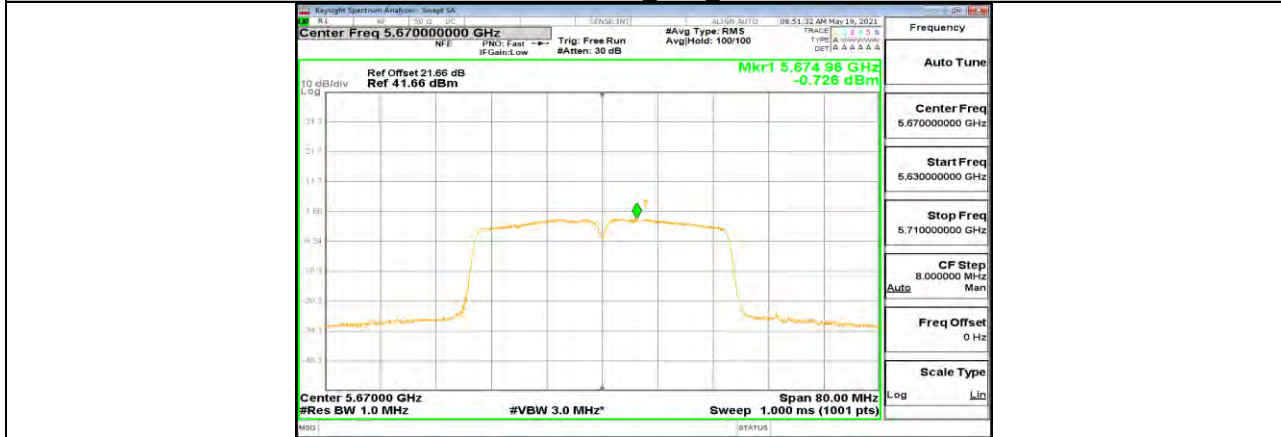
11N40SISO Ant1 5310



11N40SISO Ant1 5510



11N40SISO Ant1 5550



11N40SISO Ant1 5670



11N40SISO Ant1 5710 UNII-2C



11N40SISO Ant1 5710 UNII-3



11N40SISO Ant1 5755



11N40SISO Ant1 5795



13.6. Appendix D: Duty Cycle

13.6.1. Test Result

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	1.39	1.43	0.9720	97.20	0.12	0.72	1
11N20SISO	1.39	1.43	0.9720	97.20	0.12	0.72	1
11N40SISO	0.65	0.68	0.9559	95.59	0.20	1.54	2

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.

13.6.2. Test Graphs





13.7. Appendix E: Frequency Stability

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)
T _N	V _L	5199.9902	-1.89	5200.0079	1.52	5199.9871	-2.47	5200.0071	1.36
T _N	V _N	5199.9922	-1.50	5200.0096	1.84	5199.9815	-3.56	5199.9806	-3.74
T _N	V _H	5200.0092	1.77	5199.9842	-3.04	5199.9904	-1.84	5200.0024	0.46

Frequency Error vs. Temperature									
802.11a: 5200 MHz									
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	V _N	5200.0004	0.08	5200.0005	0.10	5199.9778	-4.27	5200.0150	2.88
30	V _N	5199.9976	-0.47	5199.9759	-4.63	5199.9999	-0.02	5200.0203	3.91
20	V _N	5199.9852	-2.86	5200.0068	1.31	5199.9921	-1.52	5200.0065	1.24
10	V _N	5200.0096	1.84	5200.0146	2.80	5199.9882	-2.27	5199.9803	-3.79
0	V _N	5200.0112	2.16	5200.0234	4.50	5200.0192	3.69	5200.0191	3.68

Frequency Error vs. Voltage									
802.11a: 5825 MHz									
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)
T _N	V _L	5825.0153	2.63	5824.9819	-3.11	5824.9763	-4.07	5824.9774	-3.88
T _N	V _N	5824.9959	-0.70	5825.0003	0.04	5824.9821	-3.08	5825.0167	2.86
T _N	V _H	5825.0191	3.28	5824.9944	-0.96	5824.9779	-3.79	5825.0127	2.18

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	V _N	5824.9944	-0.95	5825.0023	0.39	5825.0071	1.22	5824.9852	-2.54
30	V _N	5824.9876	-2.12	5825.0212	3.65	5824.9803	-3.38	5825.0210	3.61
20	V _N	5825.0018	0.31	5825.0135	2.32	5825.0239	4.10	5824.9773	-3.90
10	V _N	5825.0017	0.29	5824.9789	-3.62	5824.9928	-1.23	5825.0117	2.01
0	V _N	5825.0139	2.39	5825.0096	1.65	5824.9854	-2.51	5824.9943	-0.97

Note: All the modes have been tested, only the worst data was recorded in the report.

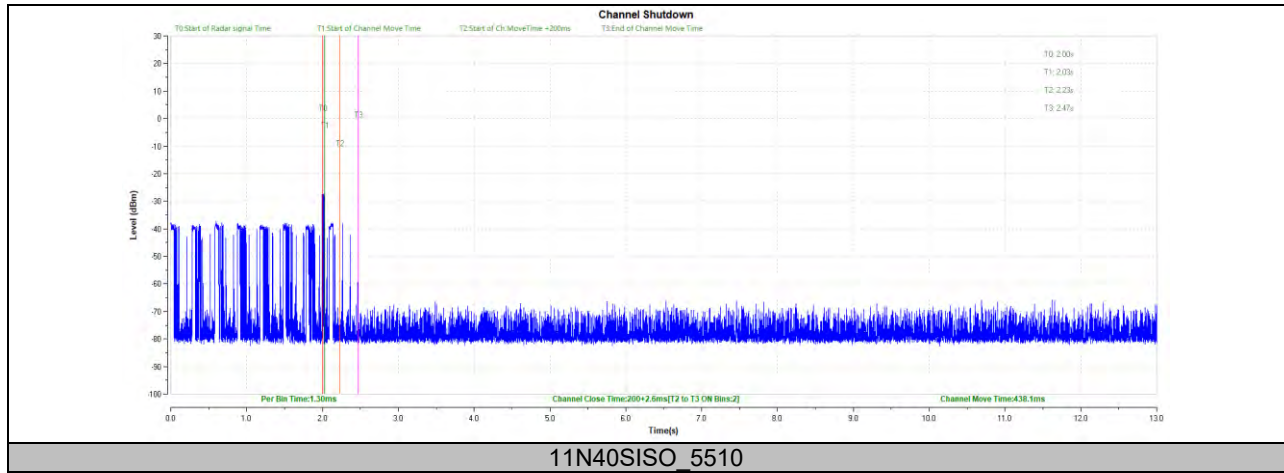


13.8. Appendix I: Channel Move Time and Channel Closing Transmission Time

13.8.1. Test Result

Test Mode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11N40SISO	5510	200+2.6	200+60	438.1	10000	PASS

13.8.2. Test Graphs



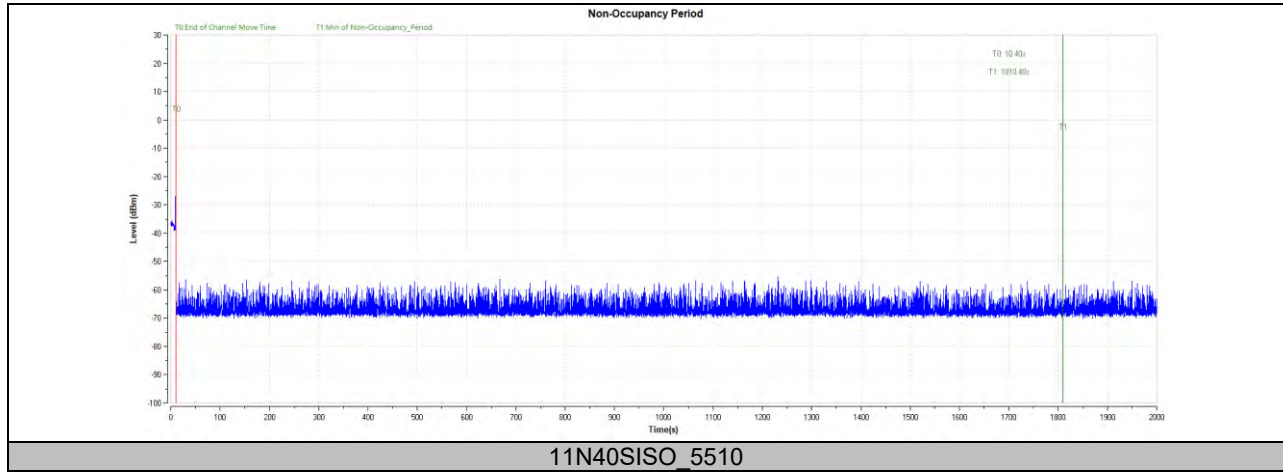


13.9. Appendix J: Non-Occupancy Period

13.9.1. Test Result

Test Mode	Channel	Result	Limit[s]	Verdict
11N40SISO	5510	see test graph	≥ 1800	PASS

13.9.2. Test Graphs



Note: All the modes have been tested, only the worst data was recorded in the report.

END OF REPORT