

Appendix: 5G WIFI

Contents

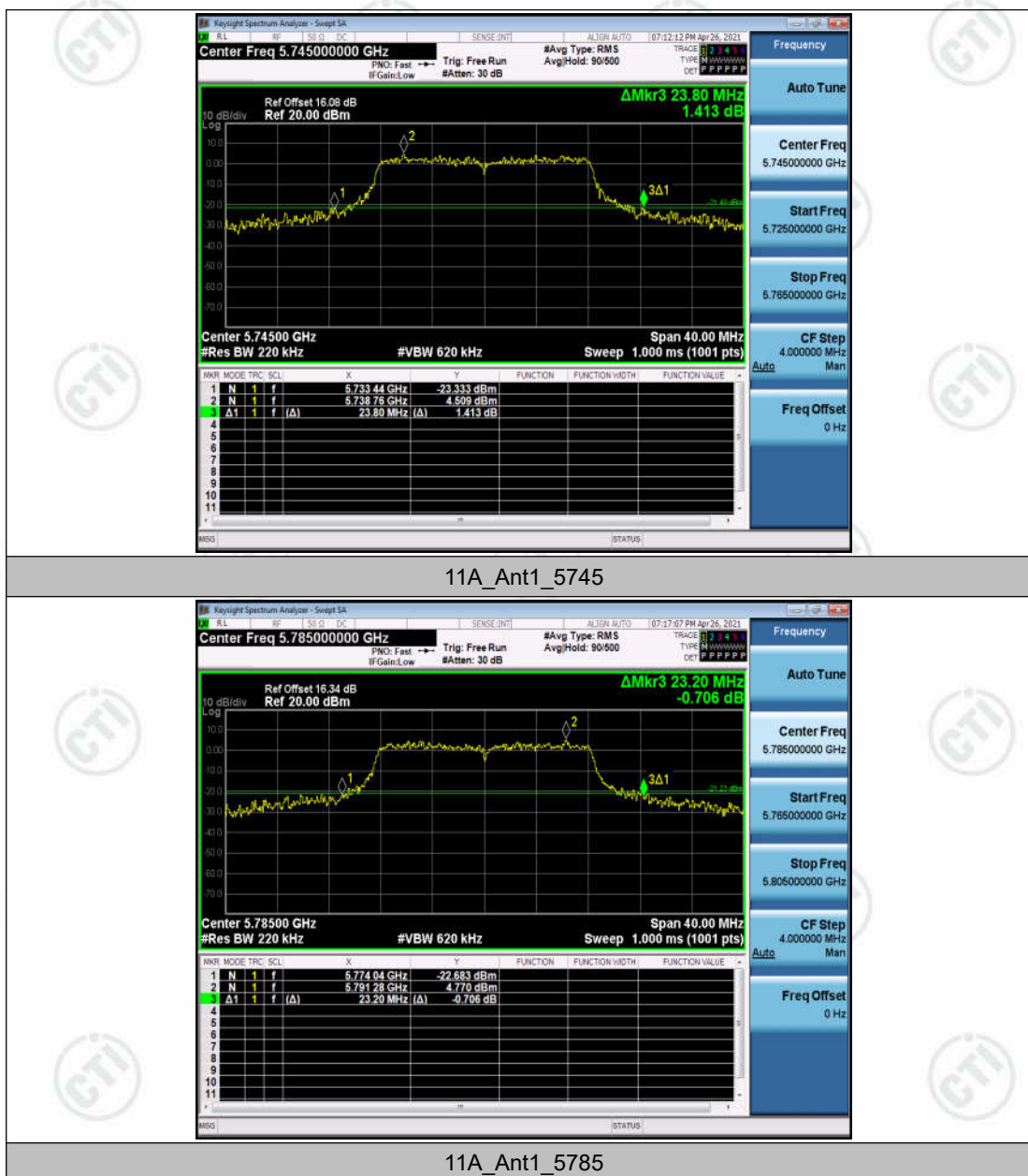
Appendix A1: Emission Bandwidth.....	3
Test Result.....	3
Test Graphs.....	4
Appendix A2: Occupied channel bandwidth.....	11
Test Result.....	11
Test Graphs.....	12
Appendix A3: Min emission bandwidth.....	19
Test Result.....	19
Test Graphs.....	20
Appendix B: Maximum conducted output power.....	27
Test Result.....	27
Test Graphs.....	28
Appendix C: Maximum power spectral density.....	35
Test Result.....	35
Test Graphs.....	36
Appendix D: Band edge measurements.....	43
Test Result.....	43
Test Graphs.....	45
Appendix E: Conducted Spurious Emission.....	51
Test Result.....	51
Test Graphs.....	53
Appendix F: Frequency Stability.....	67
Test Result.....	67
Appendix G: Duty Cycle.....	72
Test Result.....	72
Test Graphs.....	73

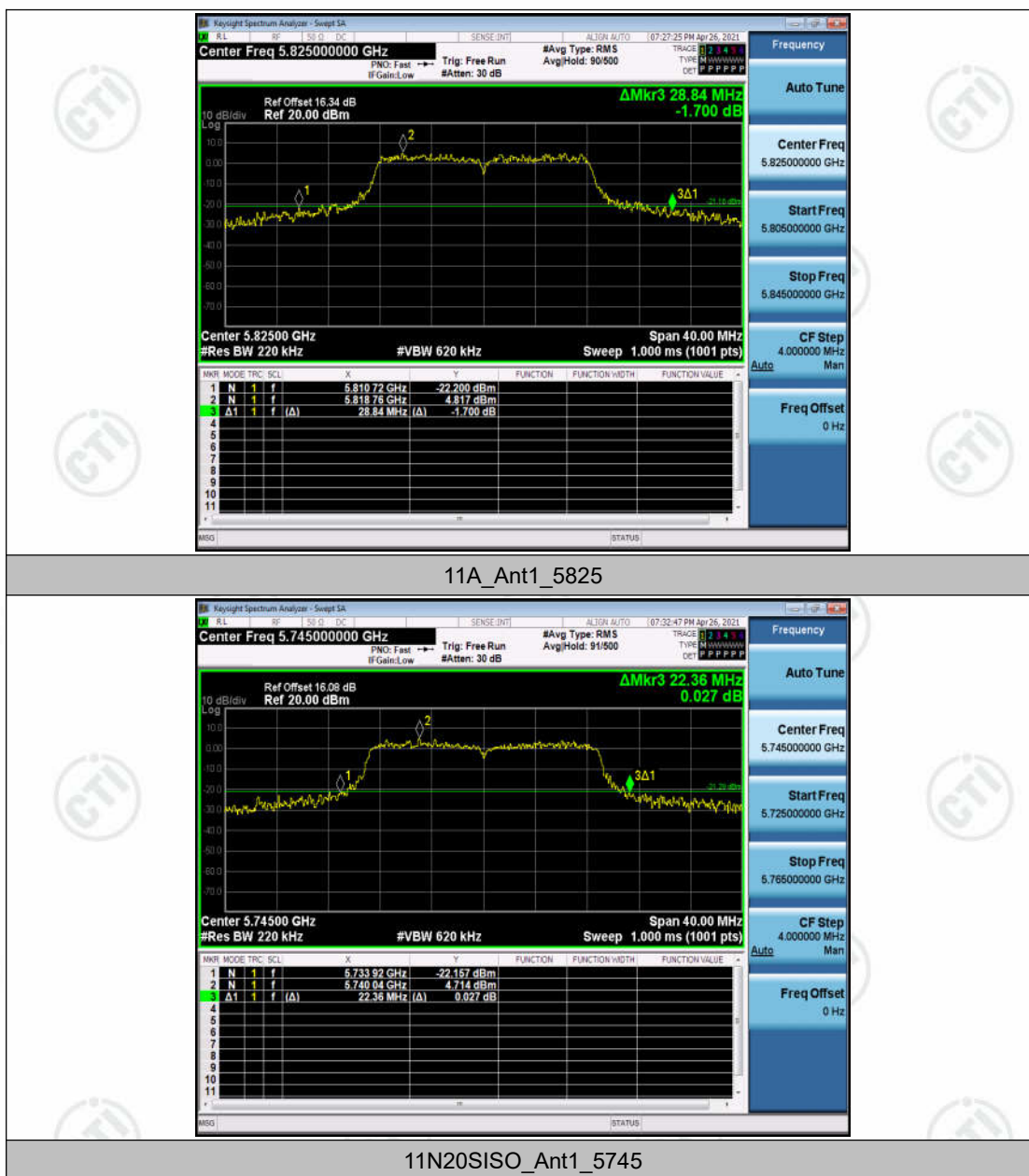
Appendix A1: Emission Bandwidth

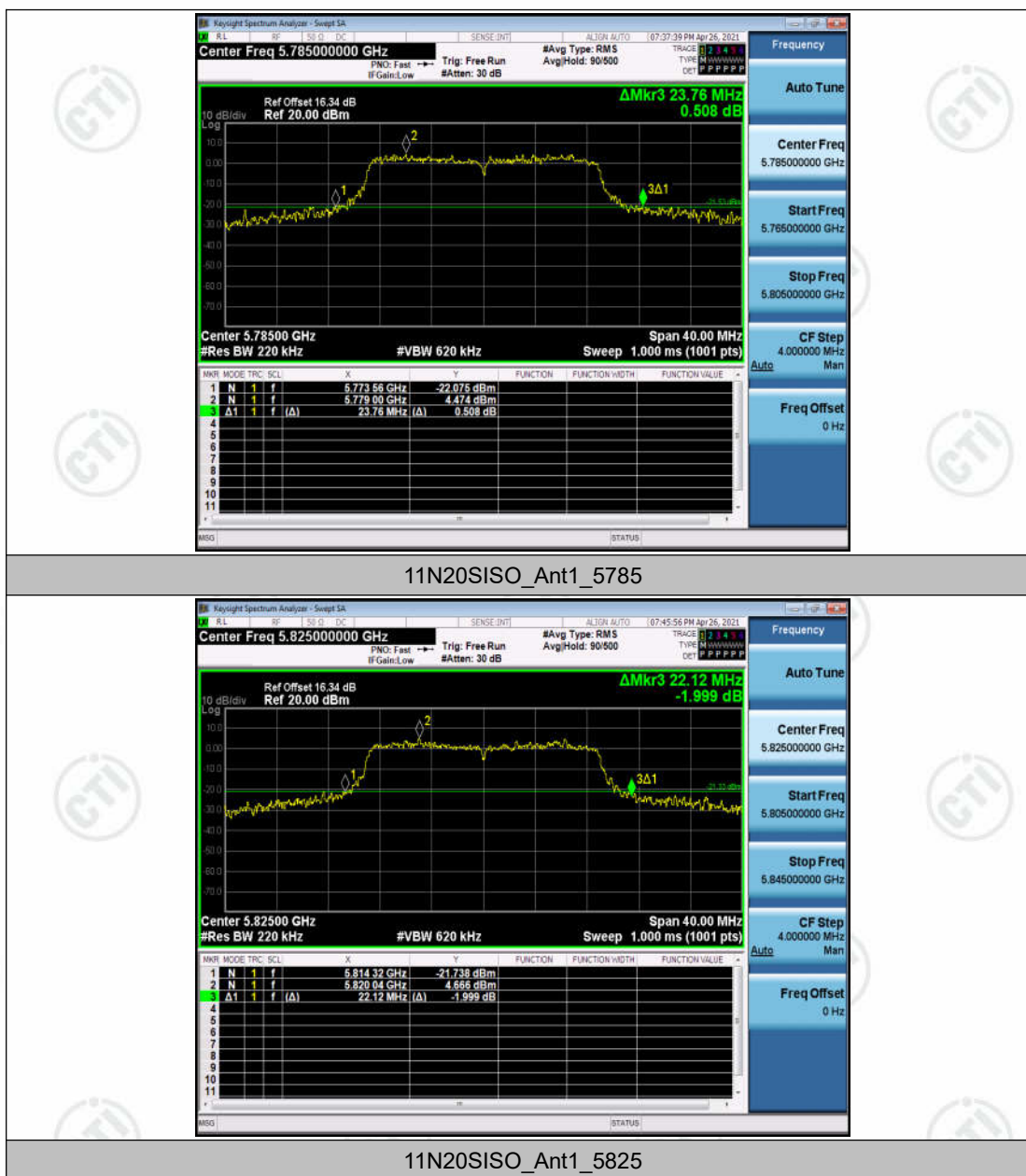
Test Result

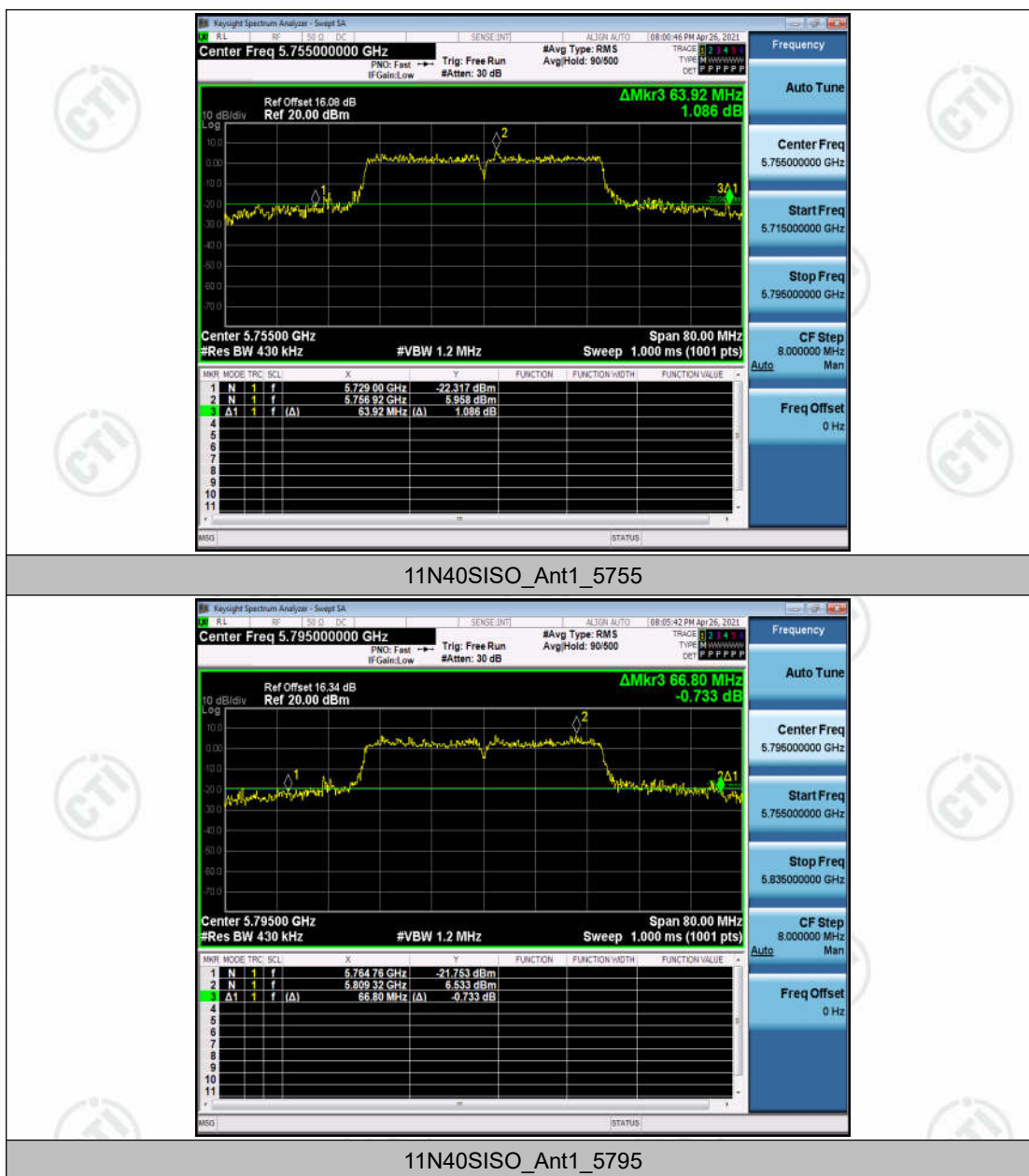
Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	23.800	5733.440	5757.240	---	PASS
		5785	23.200	5774.040	5797.240	---	PASS
		5825	28.840	5810.720	5839.560	---	PASS
11N20SISO	Ant1	5745	22.360	5733.920	5756.280	---	PASS
		5785	23.760	5773.560	5797.320	---	PASS
		5825	22.120	5814.320	5836.440	---	PASS
11N40SISO	Ant1	5755	63.920	5729.000	5792.920	---	PASS
		5795	66.800	5764.760	5831.560	---	PASS
11AC20SISO	Ant1	5745	23.840	5733.680	5757.520	---	PASS
		5785	22.880	5773.320	5796.200	---	PASS
		5825	26.080	5811.320	5837.400	---	PASS
11AC40SISO	Ant1	5755	73.280	5719.560	5792.840	---	PASS
		5795	68.800	5764.040	5832.840	---	PASS
11AC80SISO	Ant1	5775	127.680	5718.200	5845.880	---	PASS

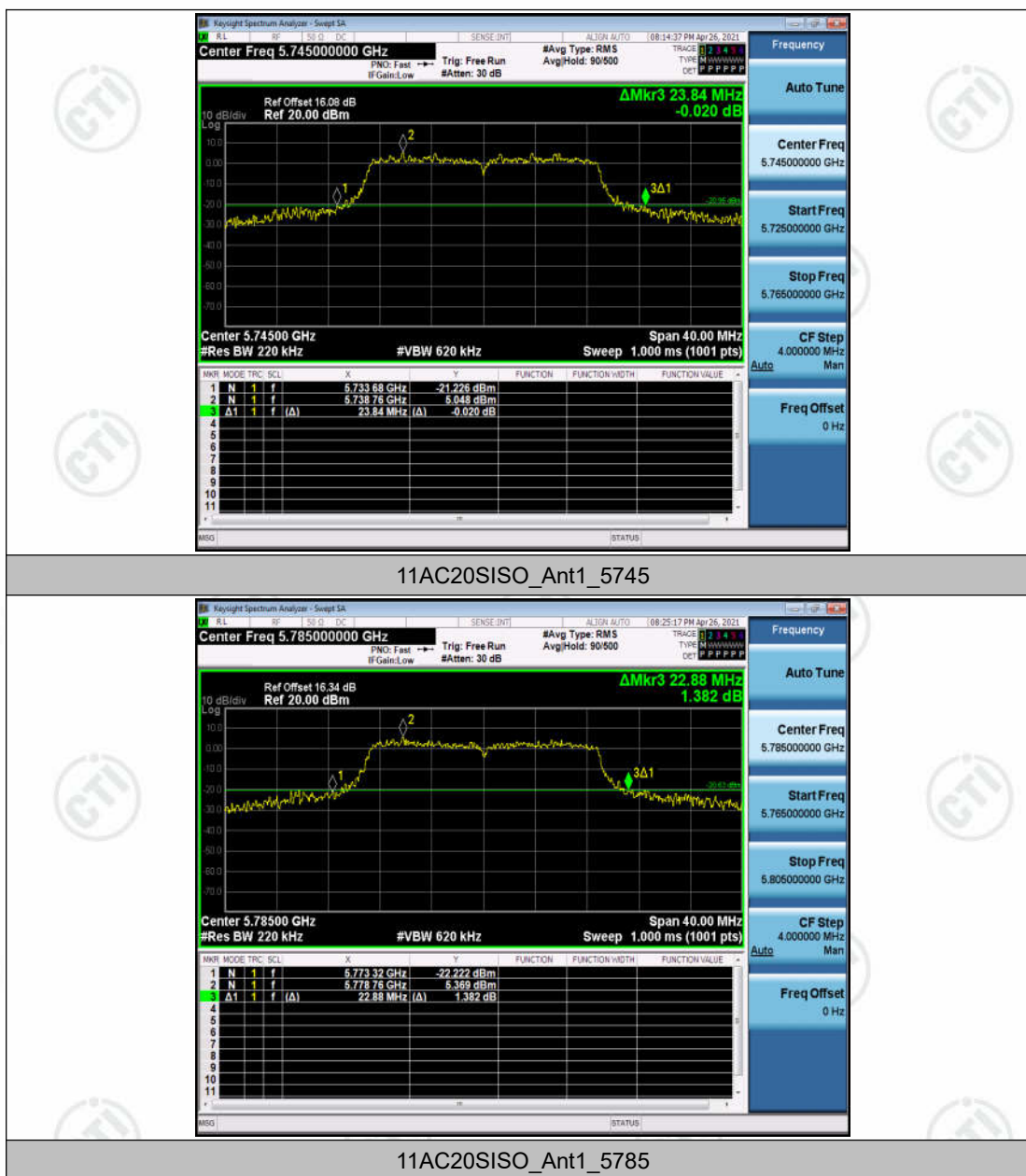
Test Graphs

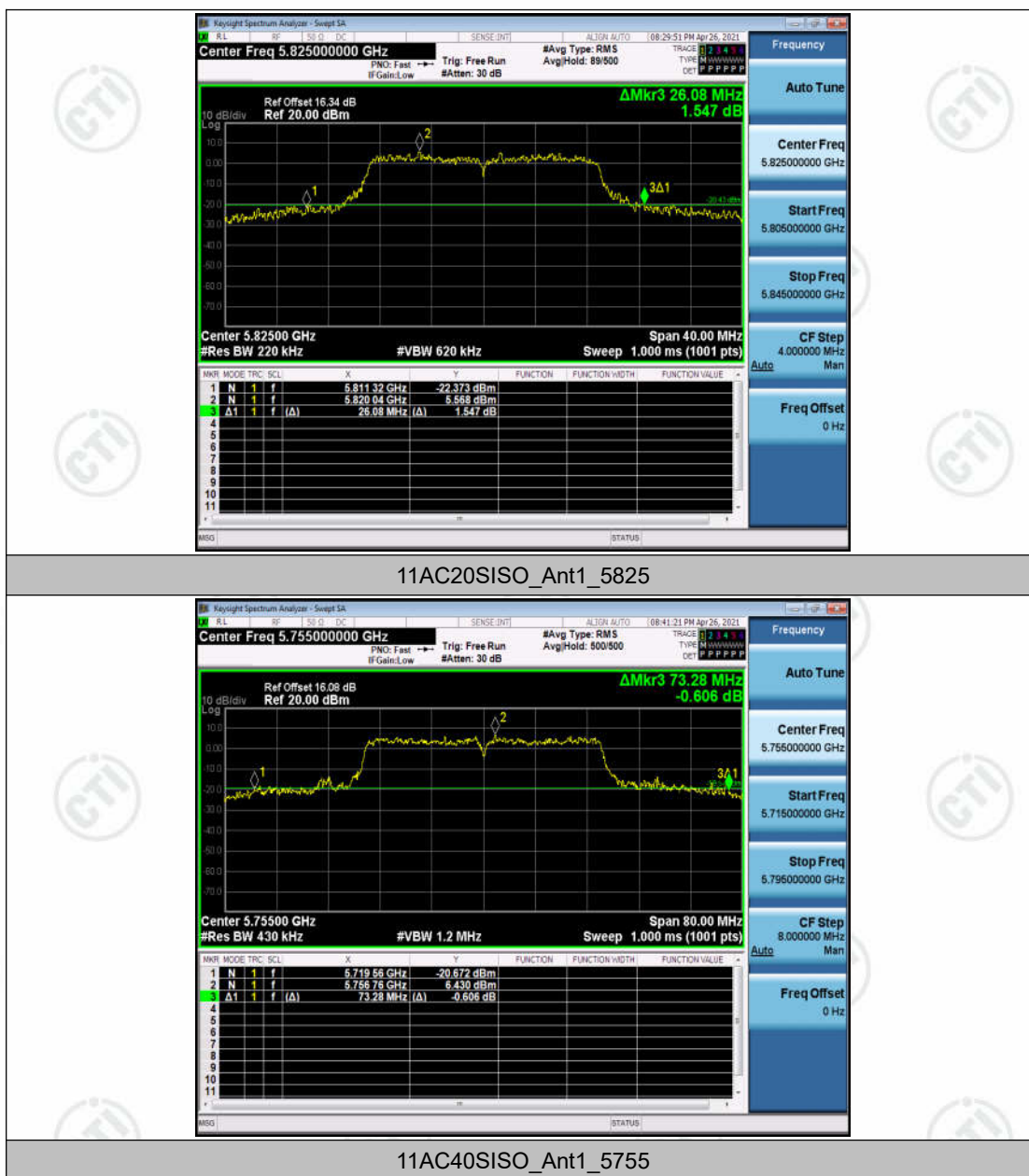


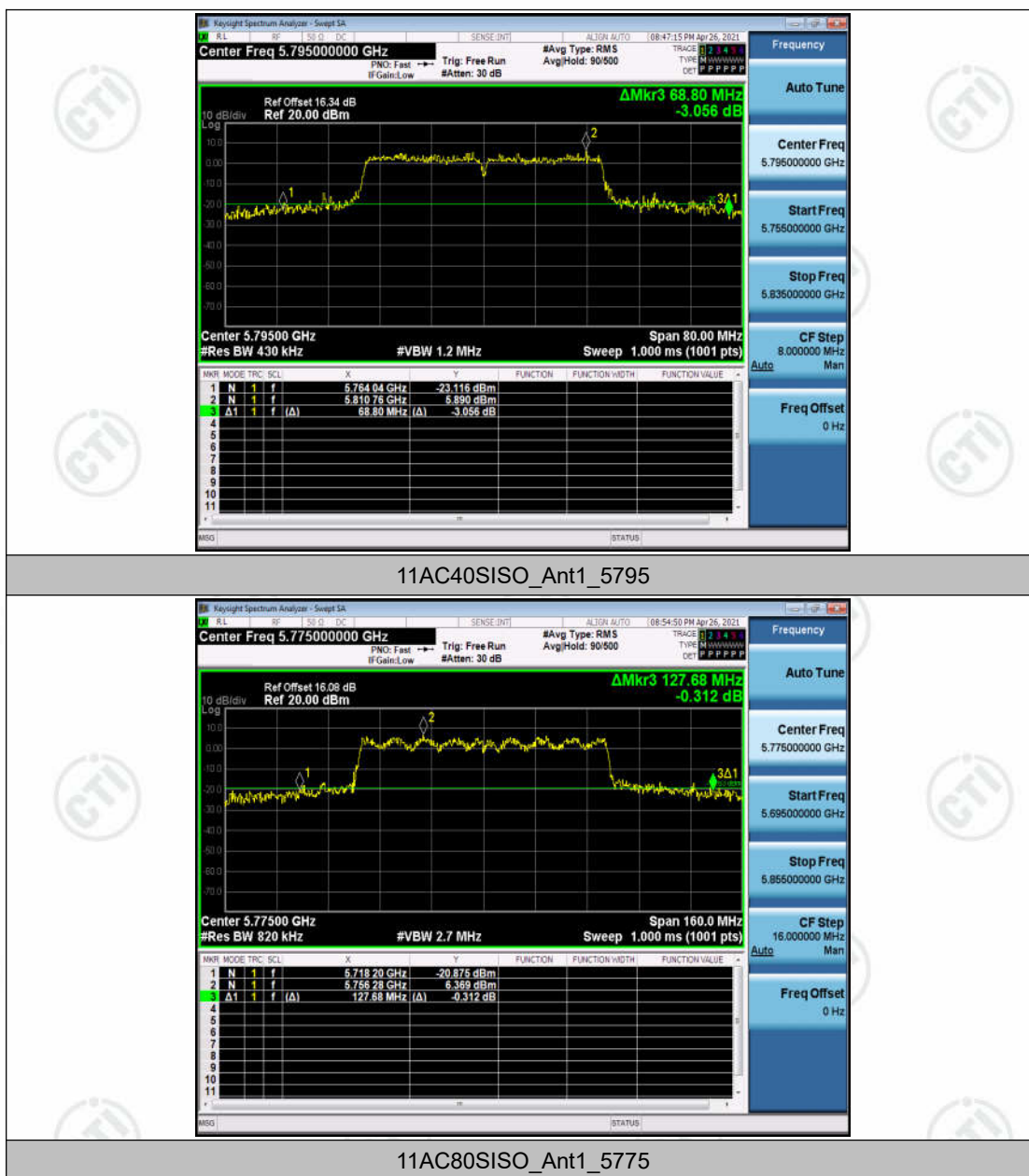










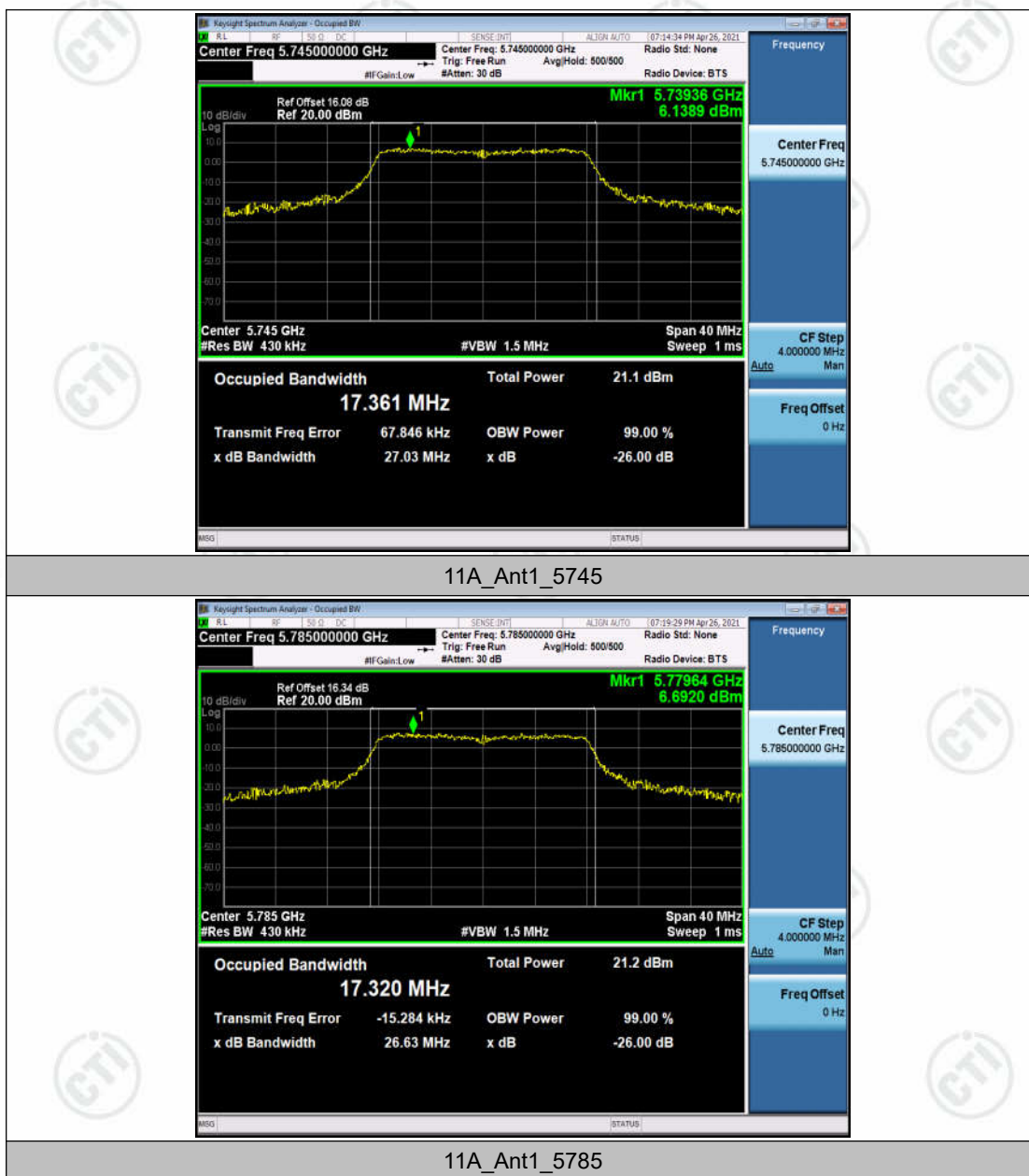


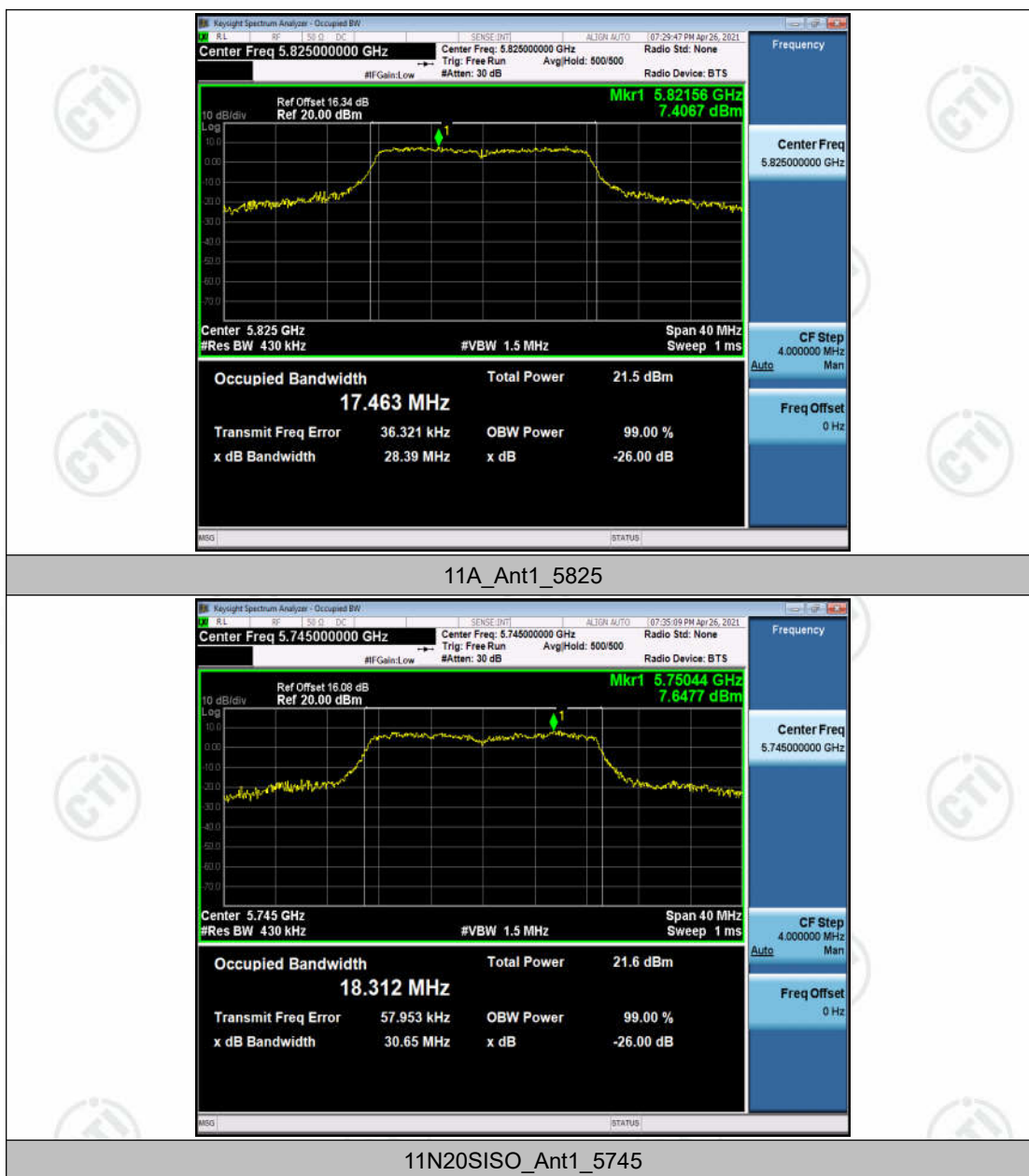
Appendix A2: Occupied channel bandwidth

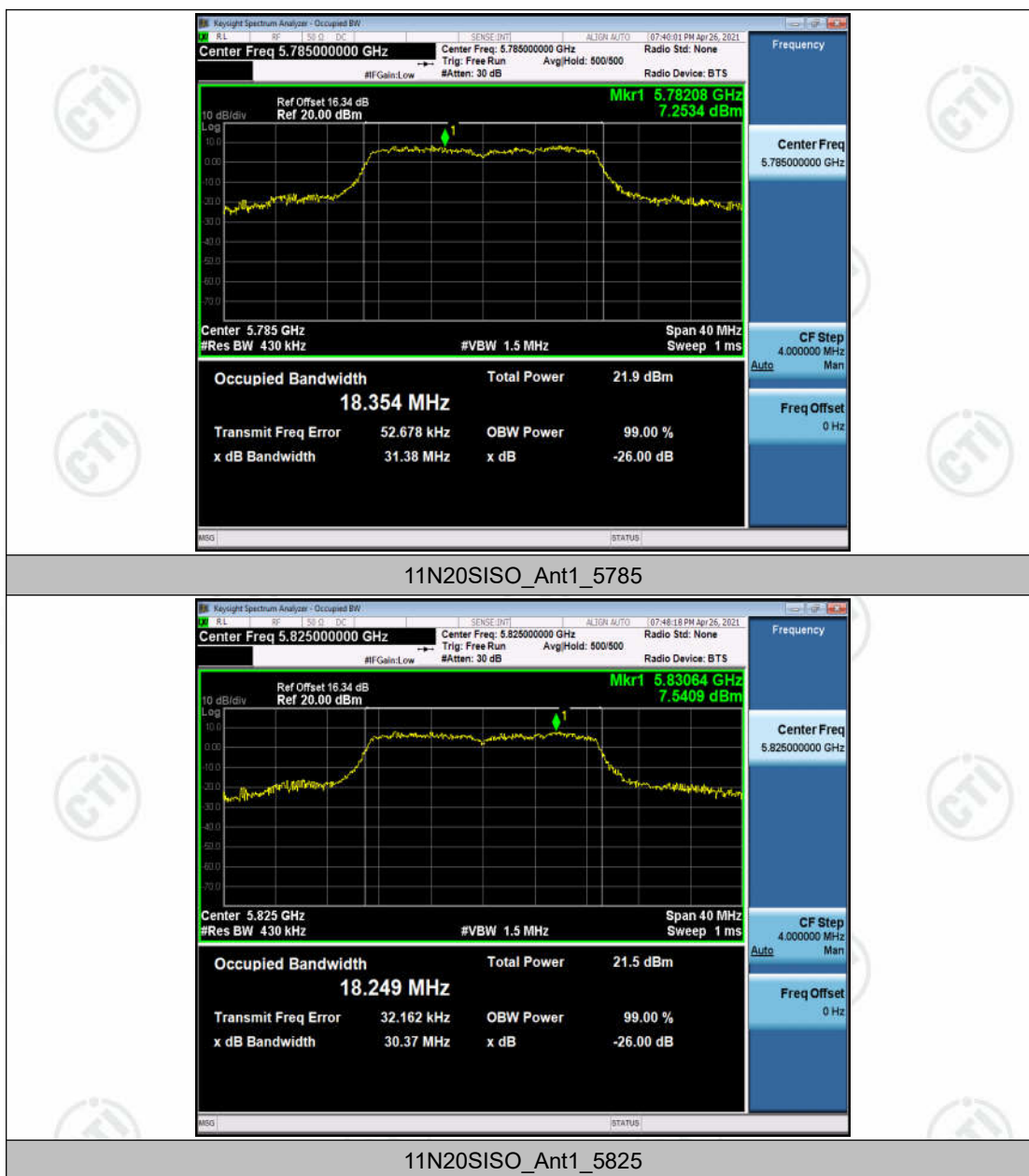
Test Result

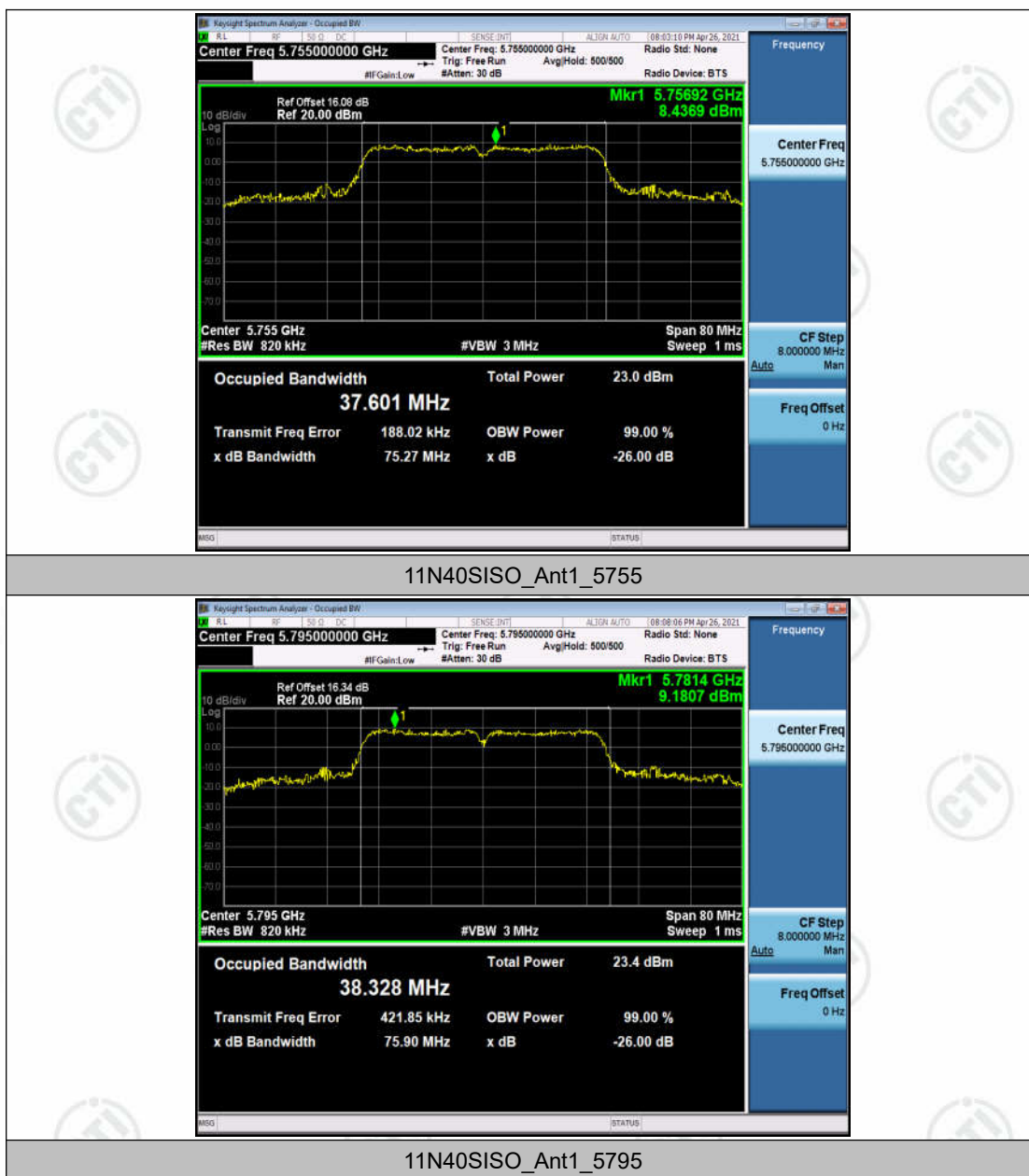
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.361	5736.387	5753.748	---	PASS
		5785	17.320	5776.325	5793.645	---	PASS
		5825	17.463	5816.305	5833.768	---	PASS
11N20SISO	Ant1	5745	18.312	5735.902	5754.214	---	PASS
		5785	18.354	5775.876	5794.230	---	PASS
		5825	18.249	5815.908	5834.157	---	PASS
11N40SISO	Ant1	5755	37.601	5736.388	5773.989	---	PASS
		5795	38.328	5776.258	5814.586	---	PASS
11AC20SISO	Ant1	5745	18.413	5735.807	5754.220	---	PASS
		5785	18.402	5775.829	5794.231	---	PASS
		5825	18.497	5815.742	5834.239	---	PASS
11AC40SISO	Ant1	5755	37.708	5736.354	5774.062	---	PASS
		5795	38.194	5776.240	5814.434	---	PASS
11AC80SISO	Ant1	5775	77.525	5736.595	5814.120	---	PASS

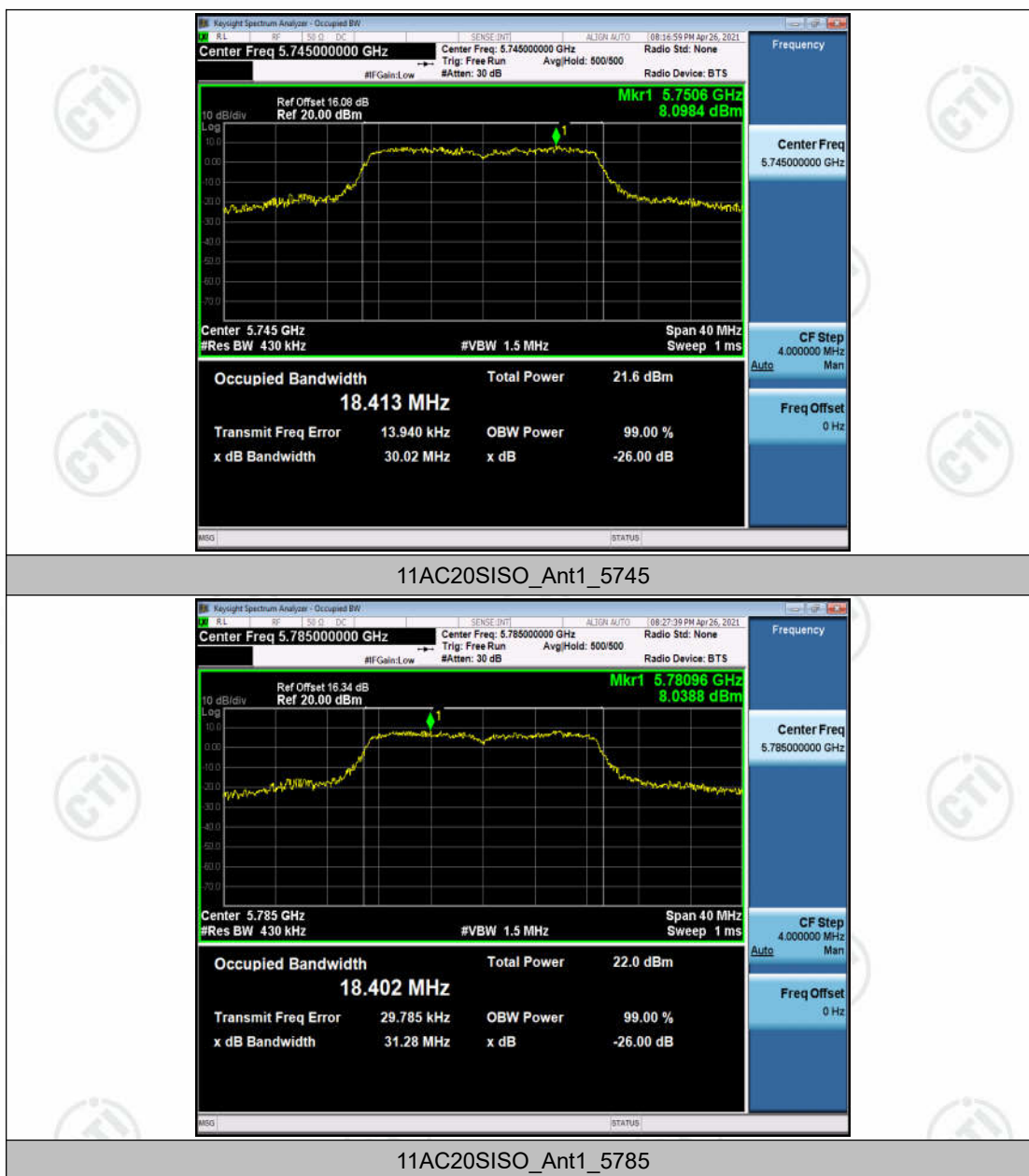
Test Graphs

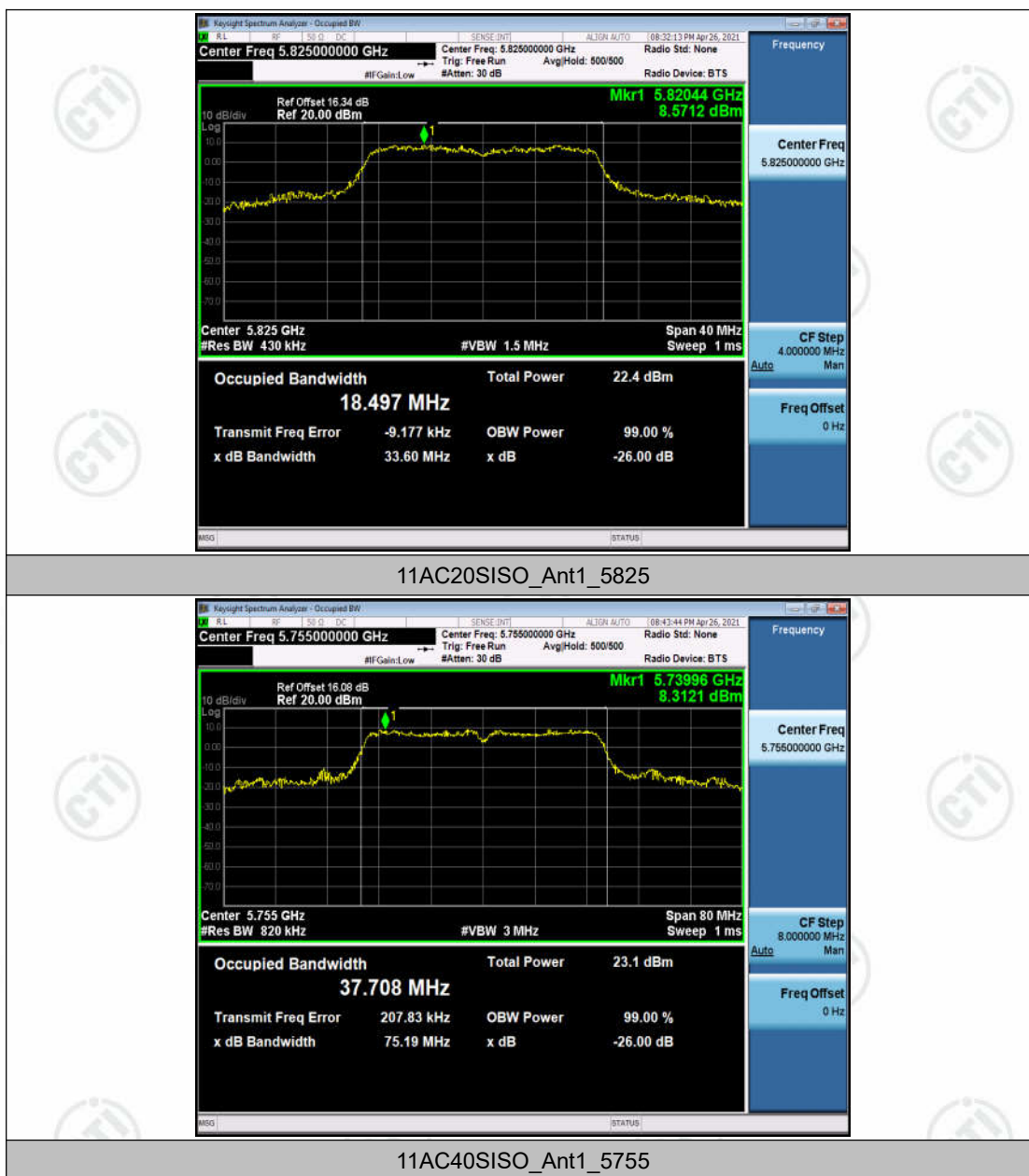


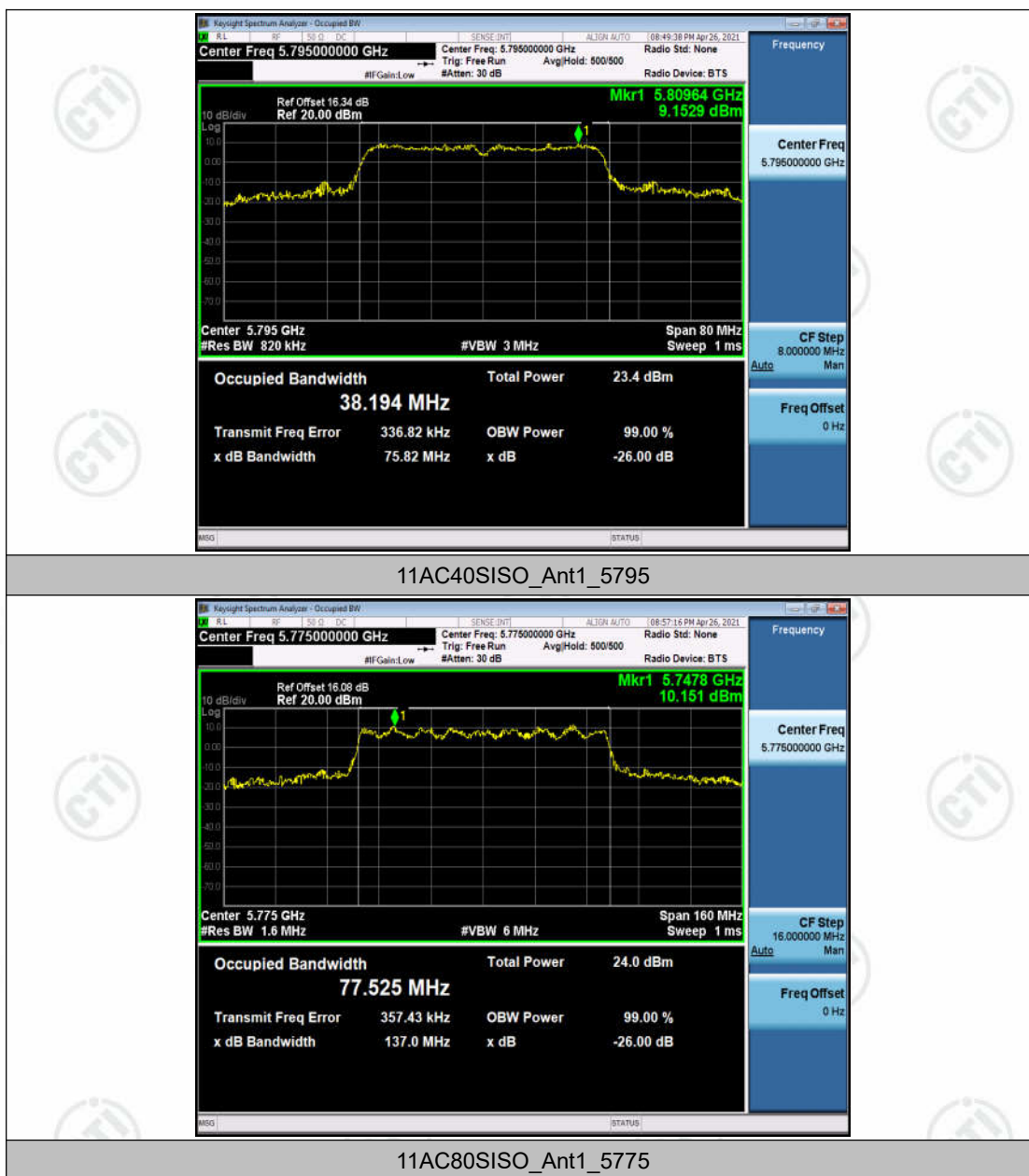










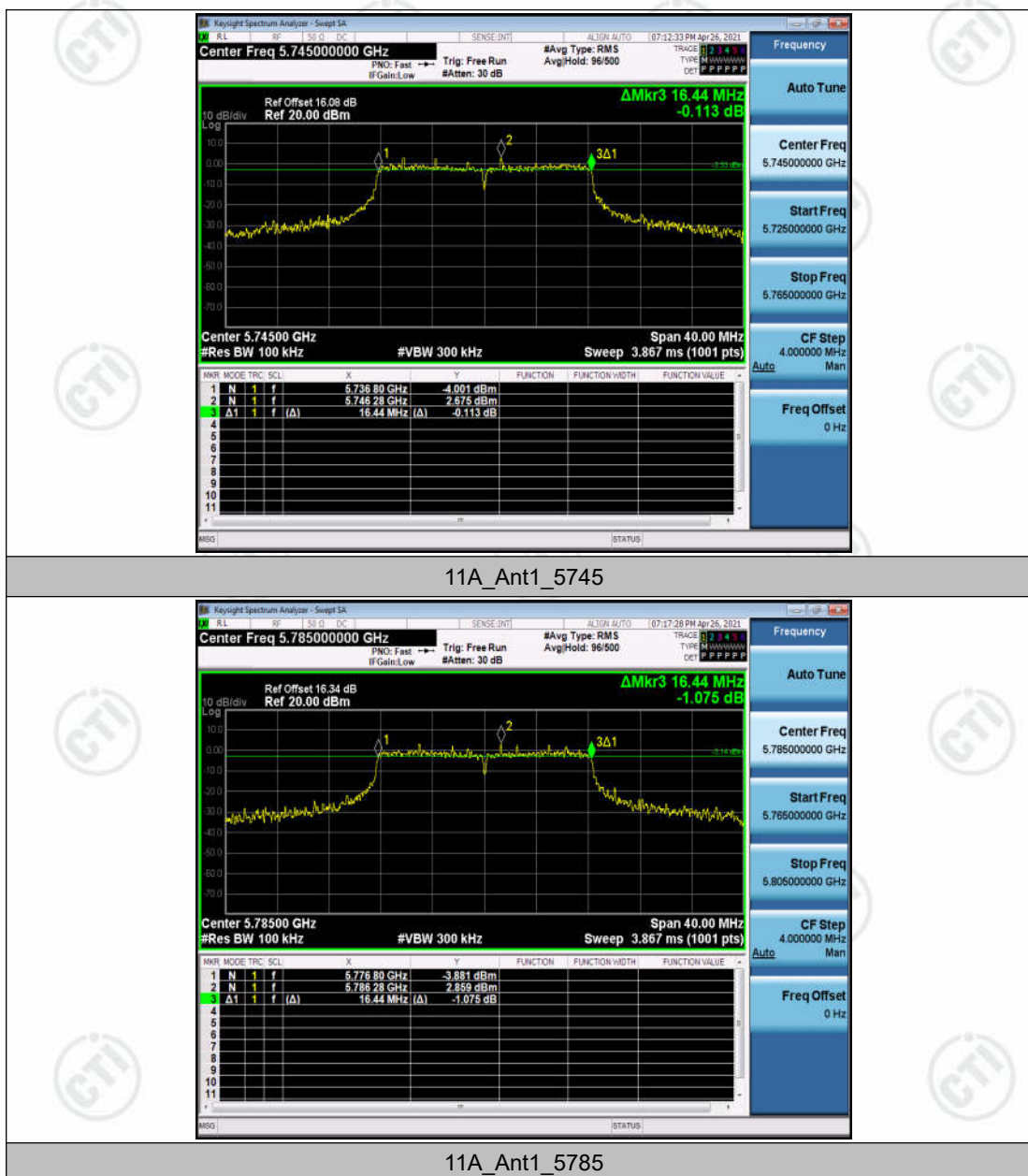


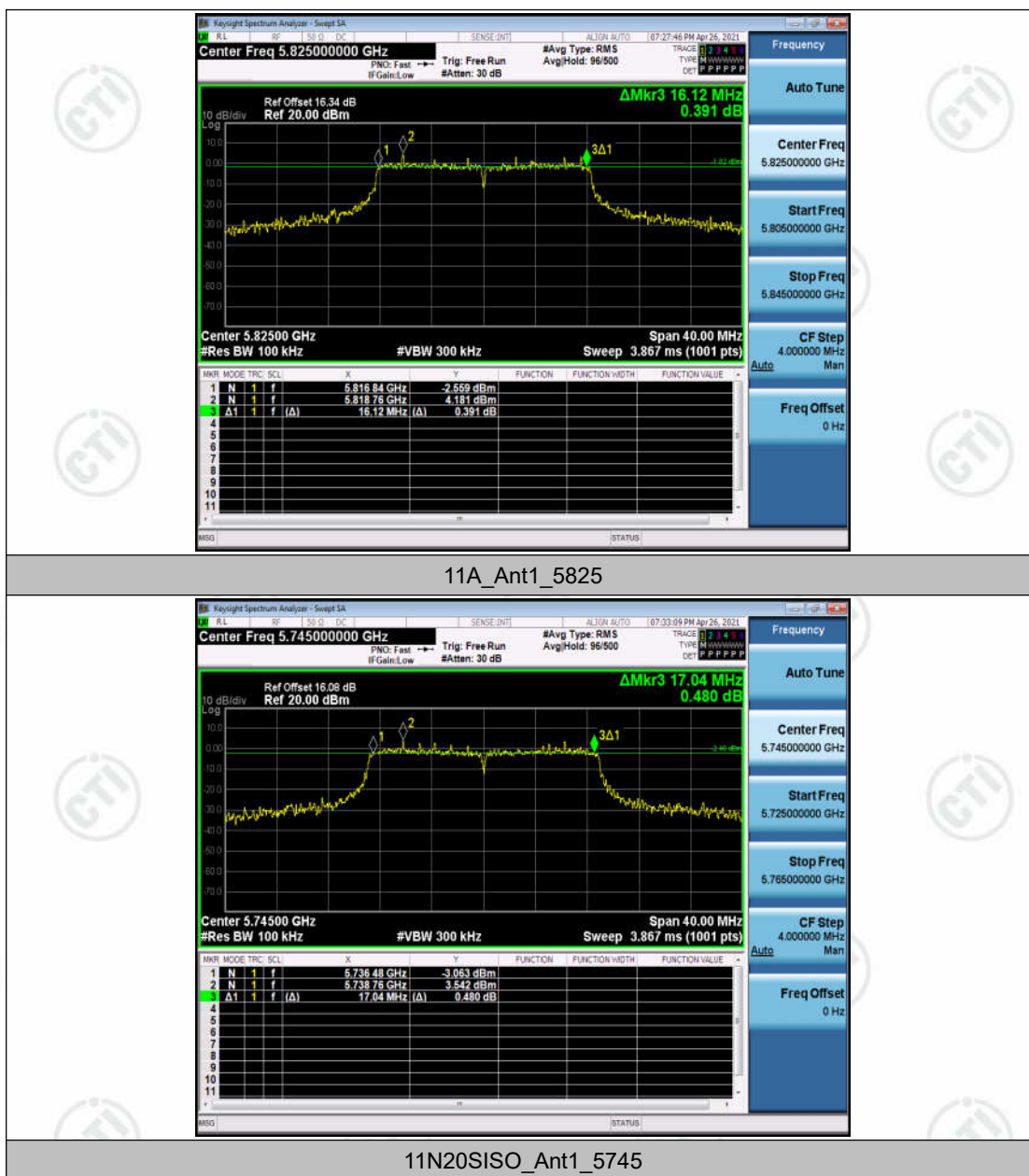
Appendix A3: Min emission bandwidth

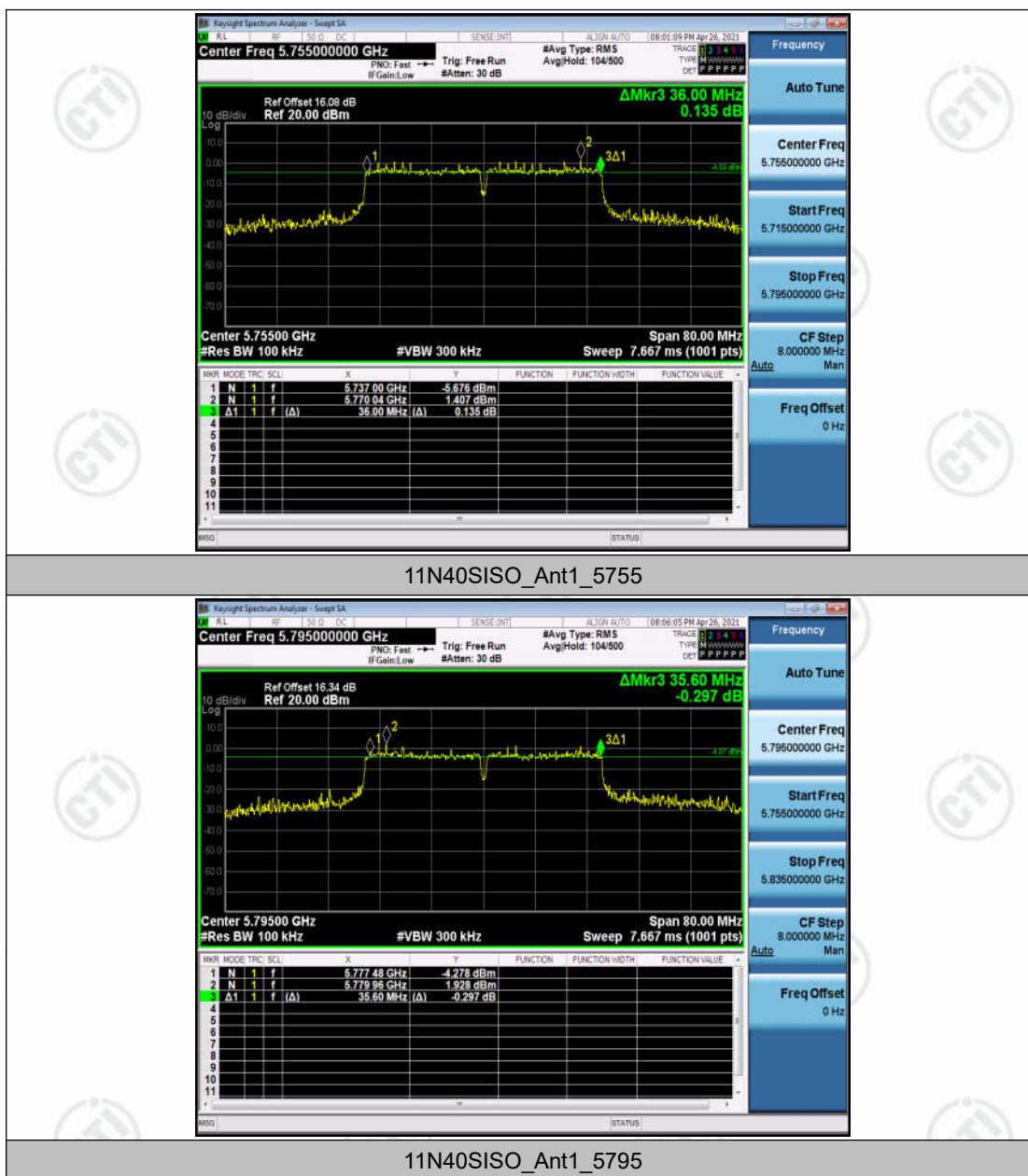
Test Result

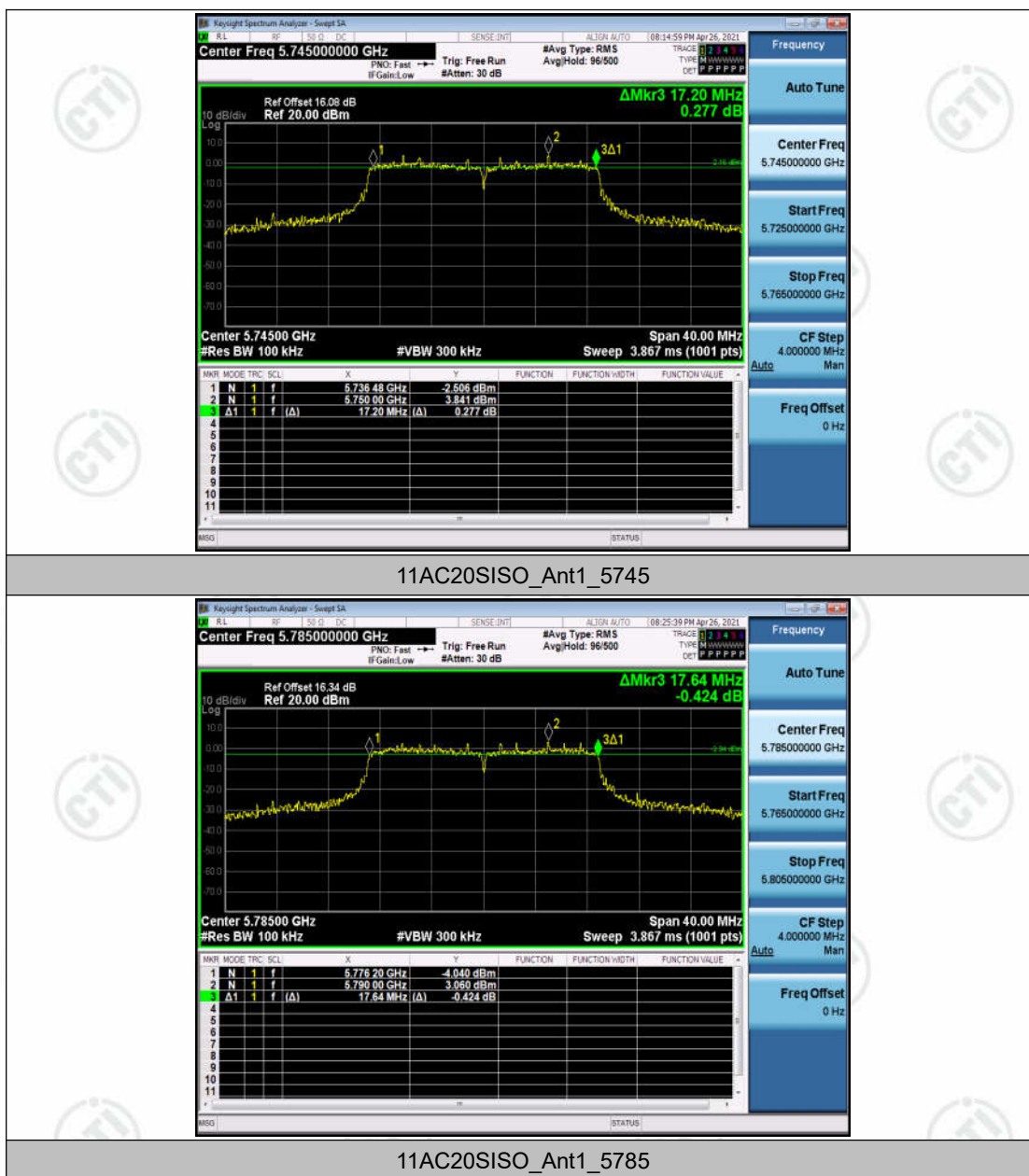
Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.440	5736.800	5753.240	0.5	PASS
		5785	16.440	5776.800	5793.240	0.5	PASS
		5825	16.120	5816.840	5832.960	0.5	PASS
11N20SISO	Ant1	5745	17.040	5736.480	5753.520	0.5	PASS
		5785	17.400	5776.360	5793.760	0.5	PASS
		5825	17.640	5816.200	5833.840	0.5	PASS
11N40SISO	Ant1	5755	36.000	5737.000	5773.000	0.5	PASS
		5795	35.600	5777.480	5813.080	0.5	PASS
11AC20SISO	Ant1	5745	17.200	5736.480	5753.680	0.5	PASS
		5785	17.640	5776.200	5793.840	0.5	PASS
		5825	17.640	5816.200	5833.840	0.5	PASS
11AC40SISO	Ant1	5755	36.000	5737.000	5773.000	0.5	PASS
		5795	36.000	5777.000	5813.000	0.5	PASS
11AC80SISO	Ant1	5775	75.360	5737.400	5812.760	0.5	PASS

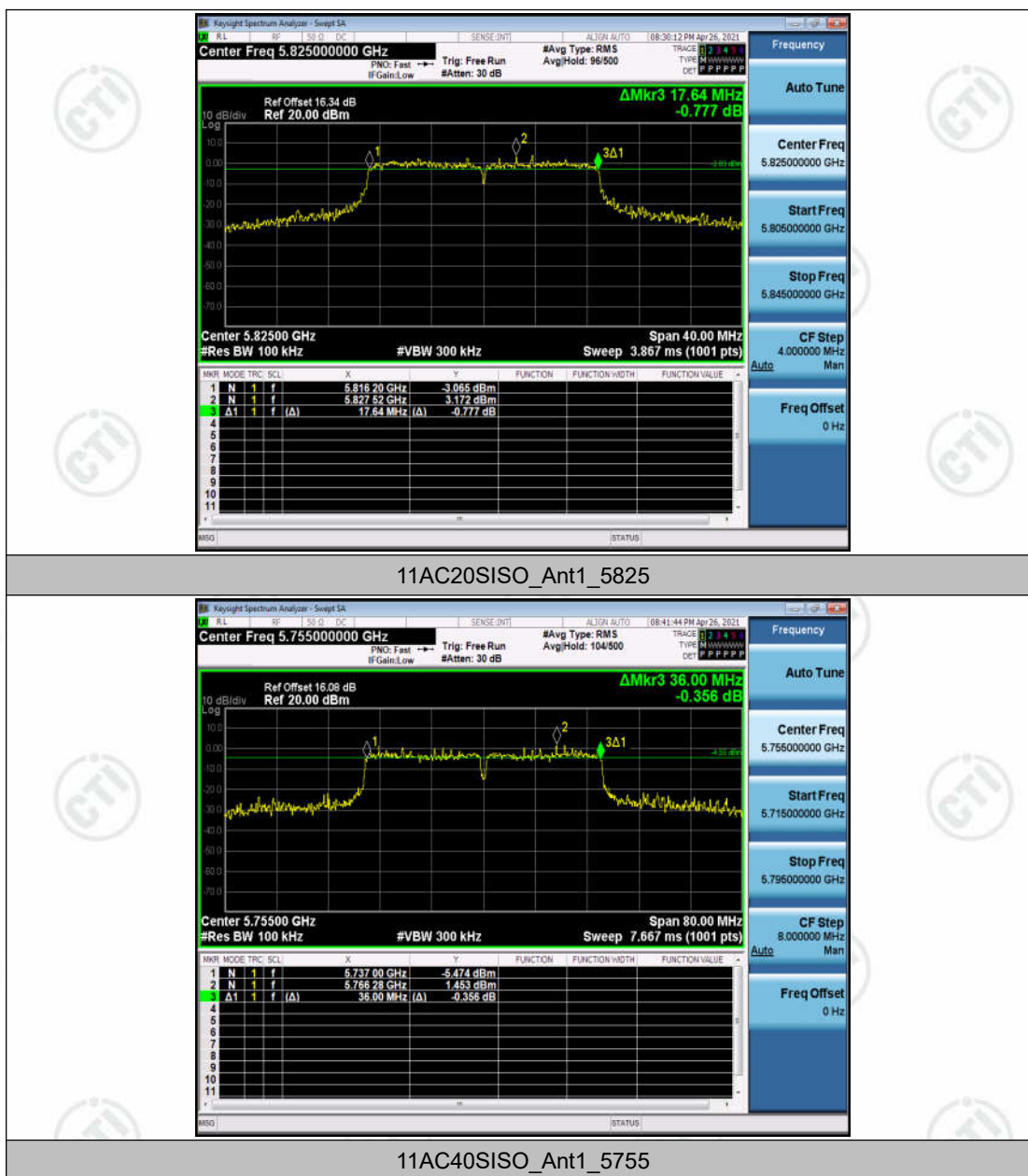
Test Graphs

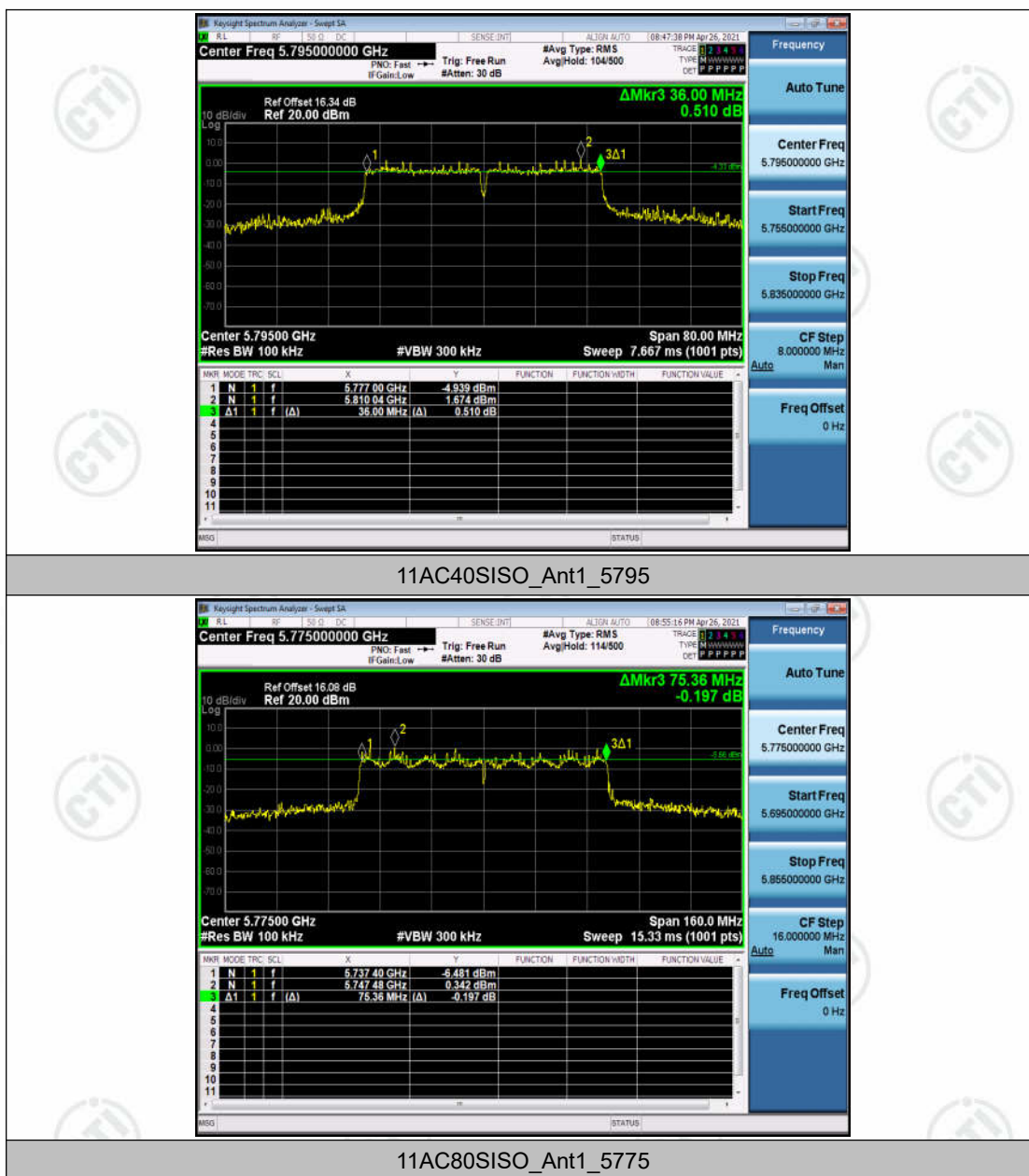












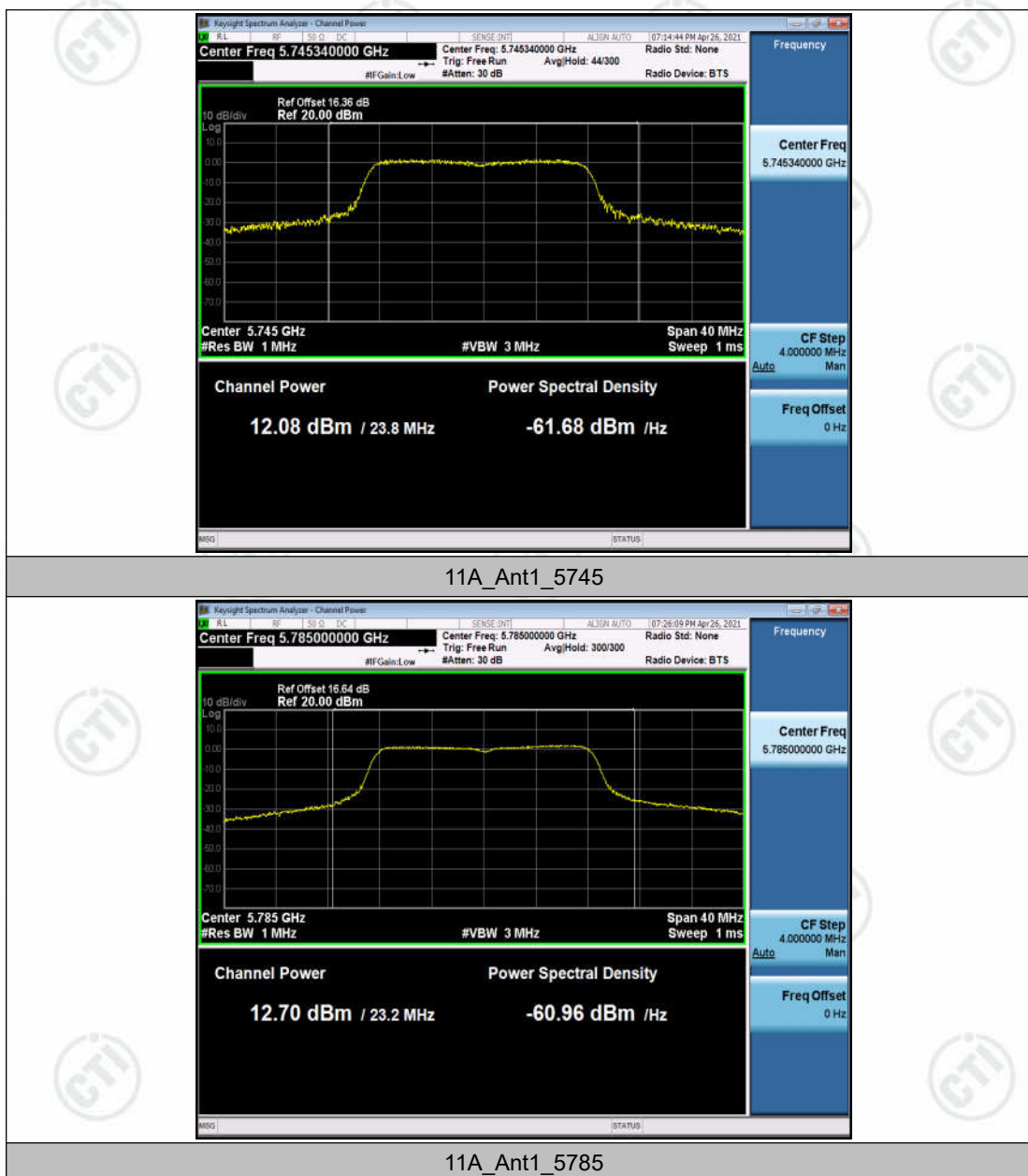
Appendix B: Maximum conducted output power

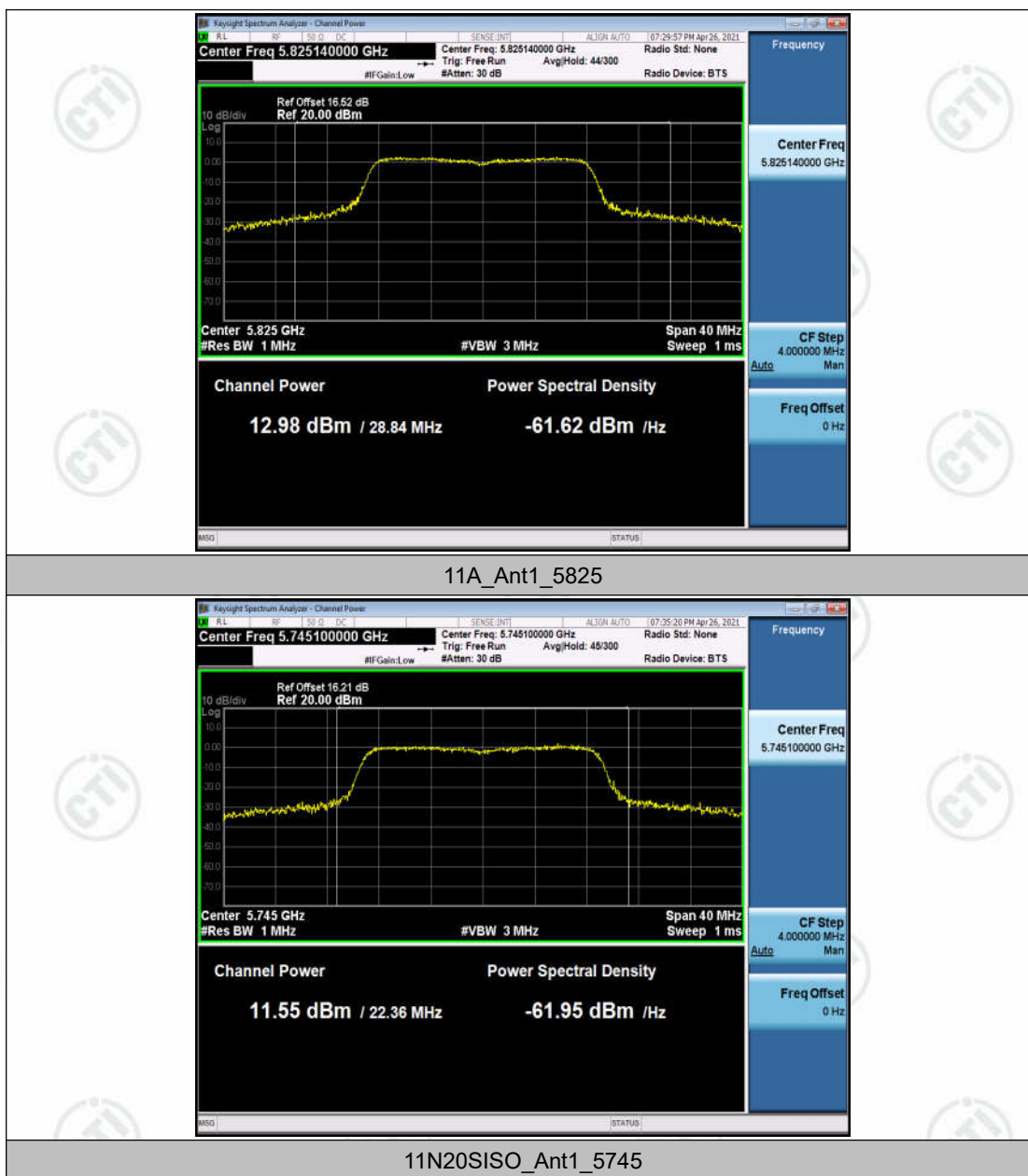
Test Result

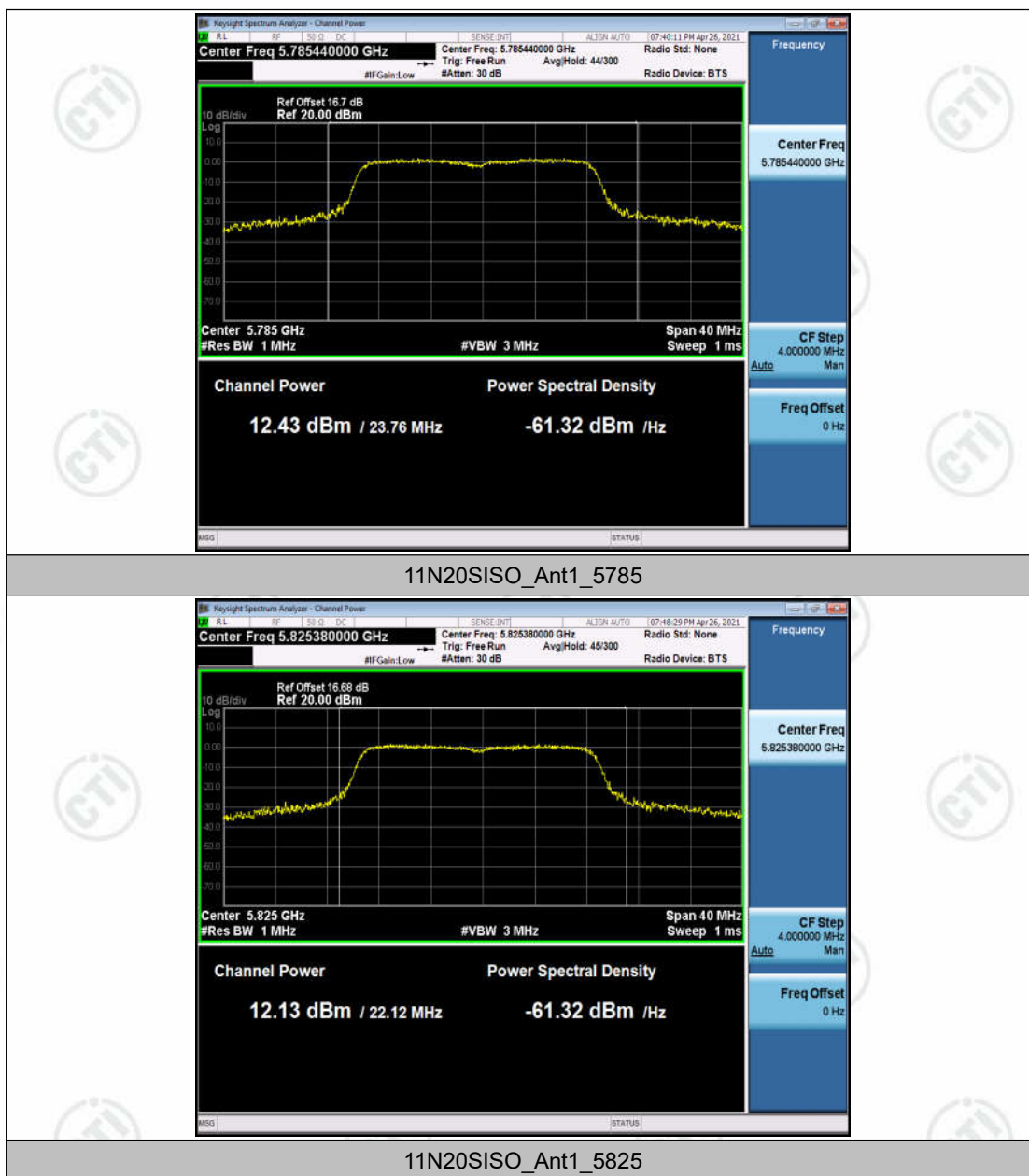
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	12.08	<=30	PASS
		5785	12.70	<=30	PASS
		5825	12.98	<=30	PASS
11N20SISO	Ant1	5745	11.55	<=30	PASS
		5785	12.43	<=30	PASS
		5825	12.13	<=30	PASS
11N40SISO	Ant1	5755	12.02	<=30	PASS
		5795	12.01	<=30	PASS
11AC20SISO	Ant1	5745	13.09	<=30	PASS
		5785	12.57	<=30	PASS
		5825	12.13	<=30	PASS
11AC40SISO	Ant1	5755	10.65	<=30	PASS
		5795	12.56	<=30	PASS
11AC80SISO	Ant1	5775	11.19	<=30	PASS

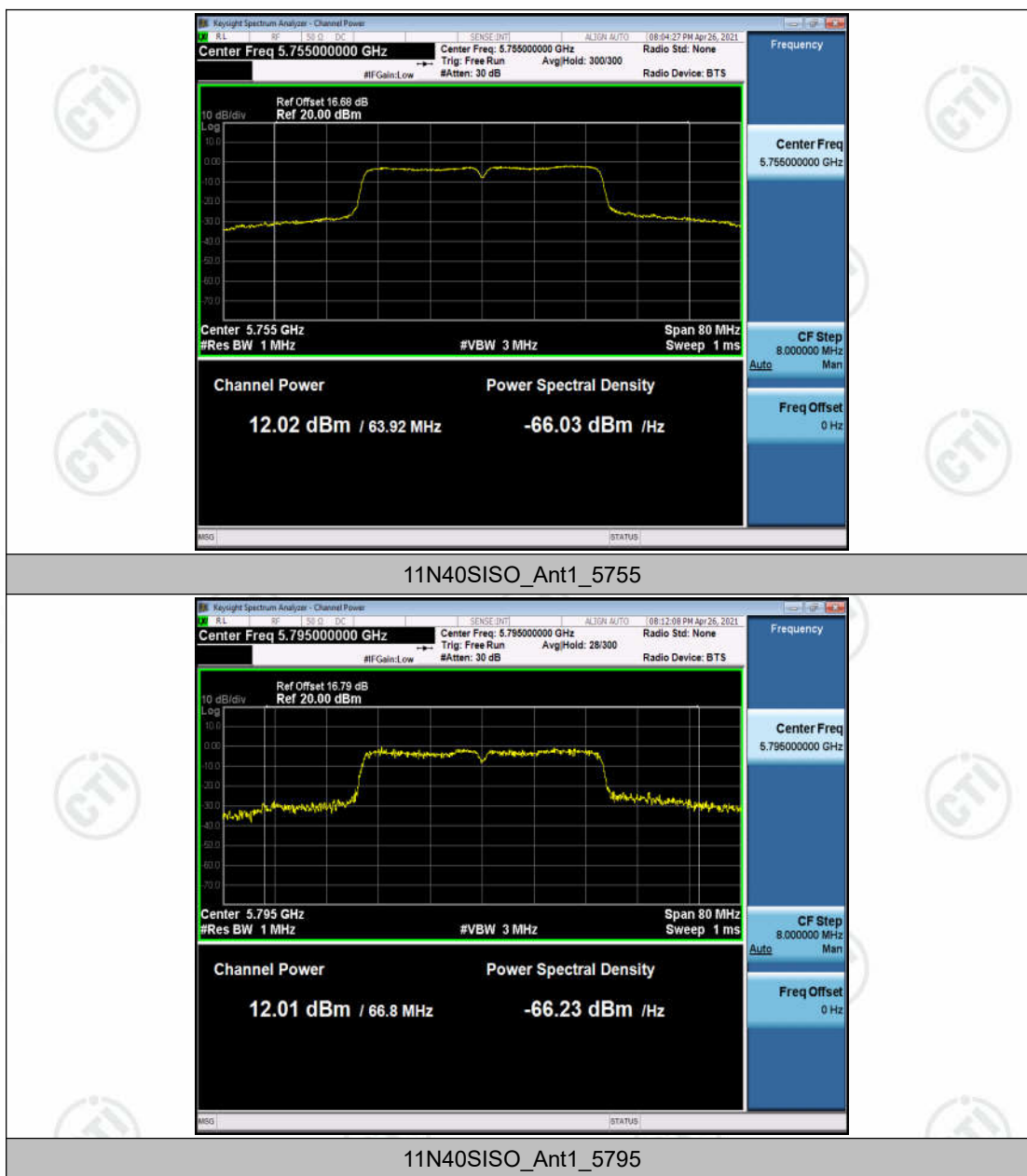
Note: The Duty Cycle Factor is compensated in the graph.

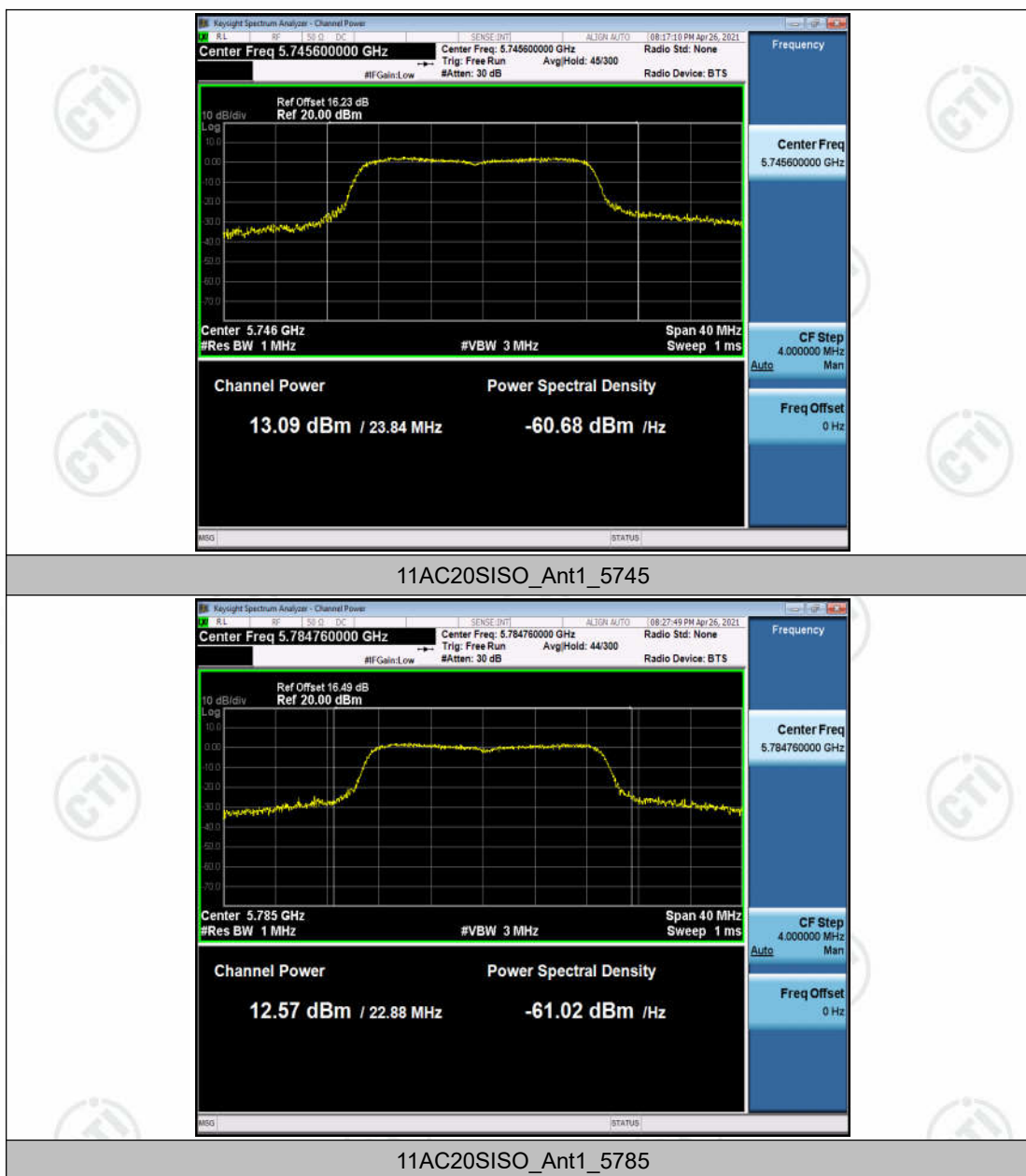
Test Graphs

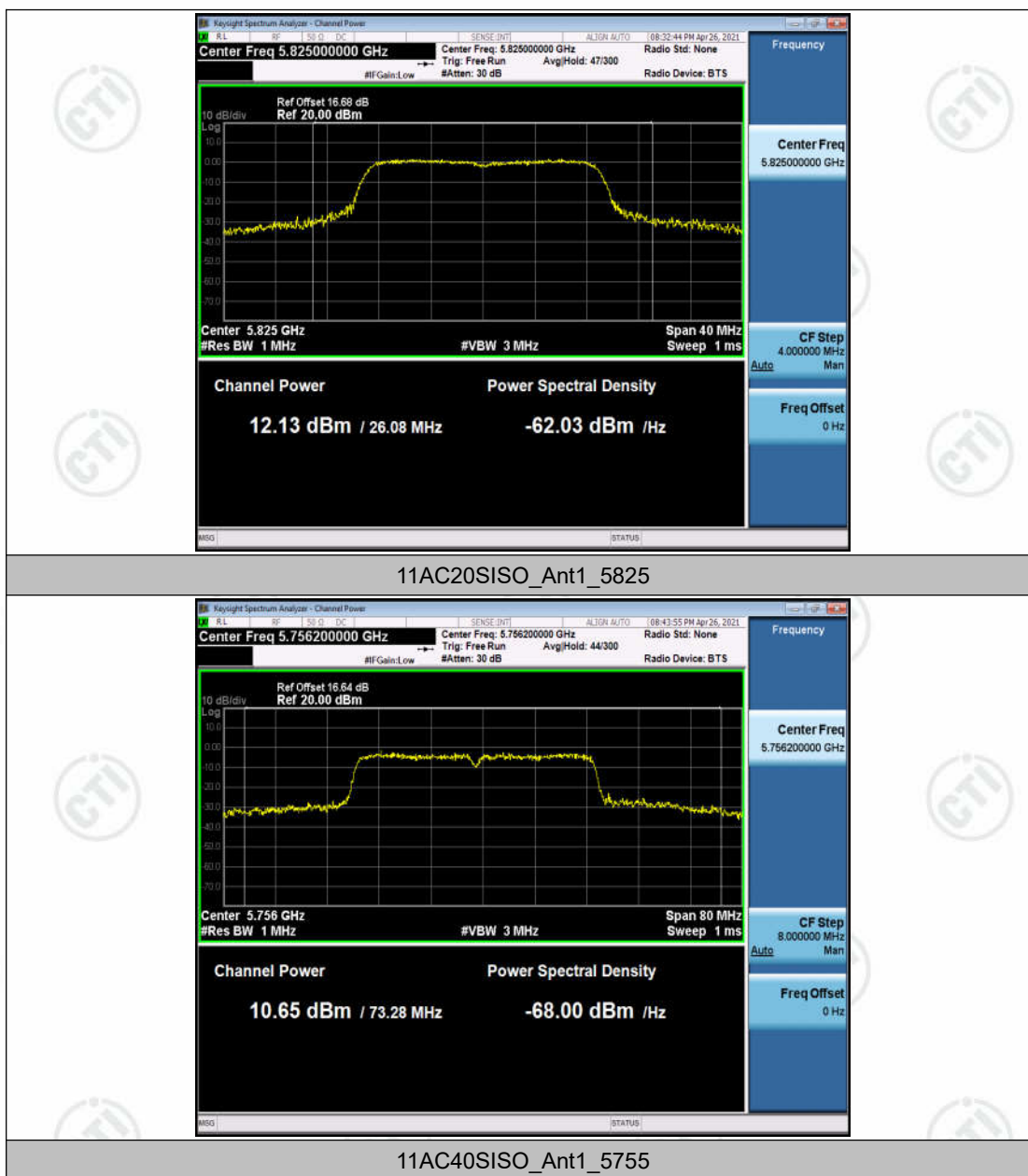


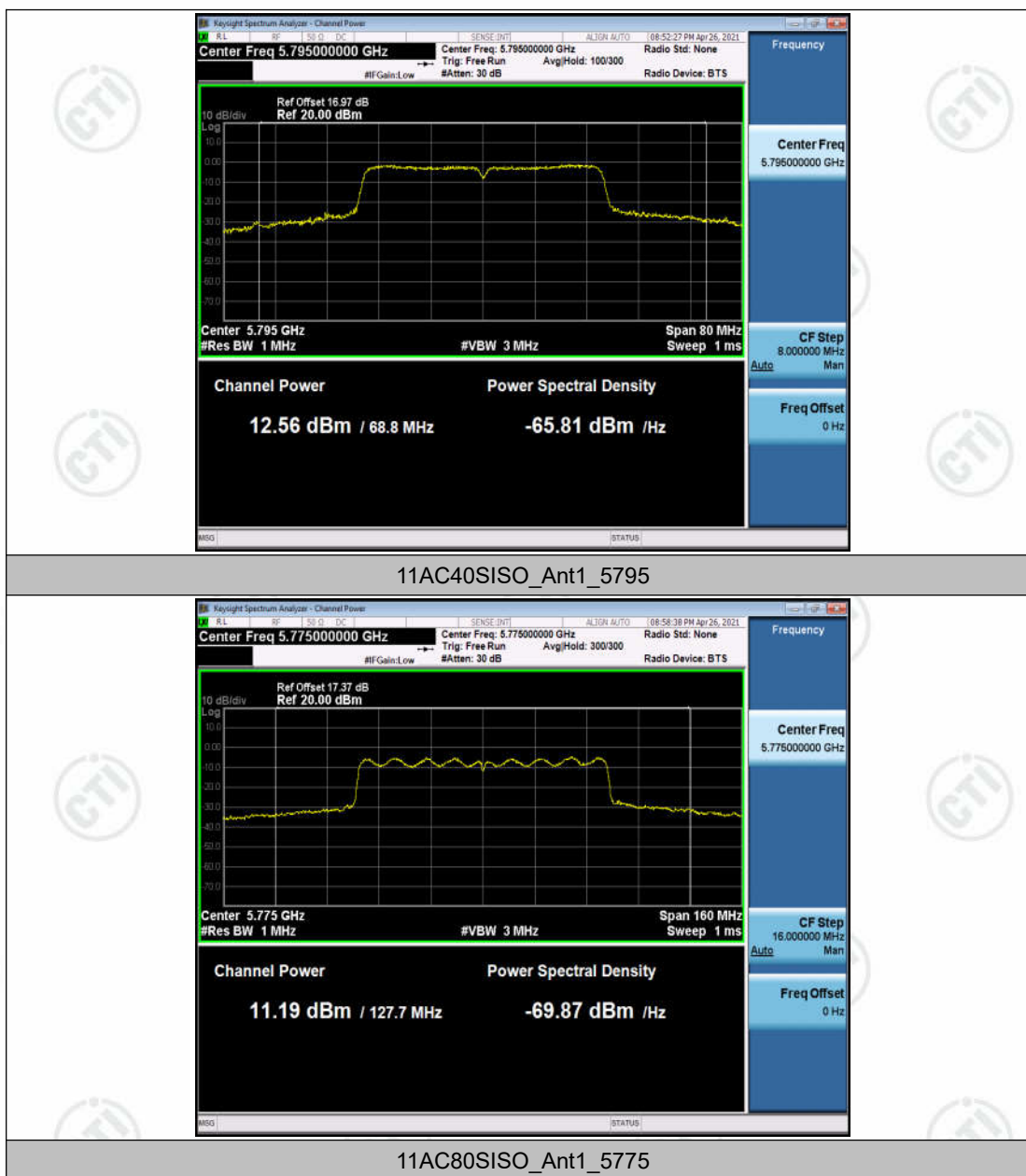












Appendix C: Maximum power spectral density

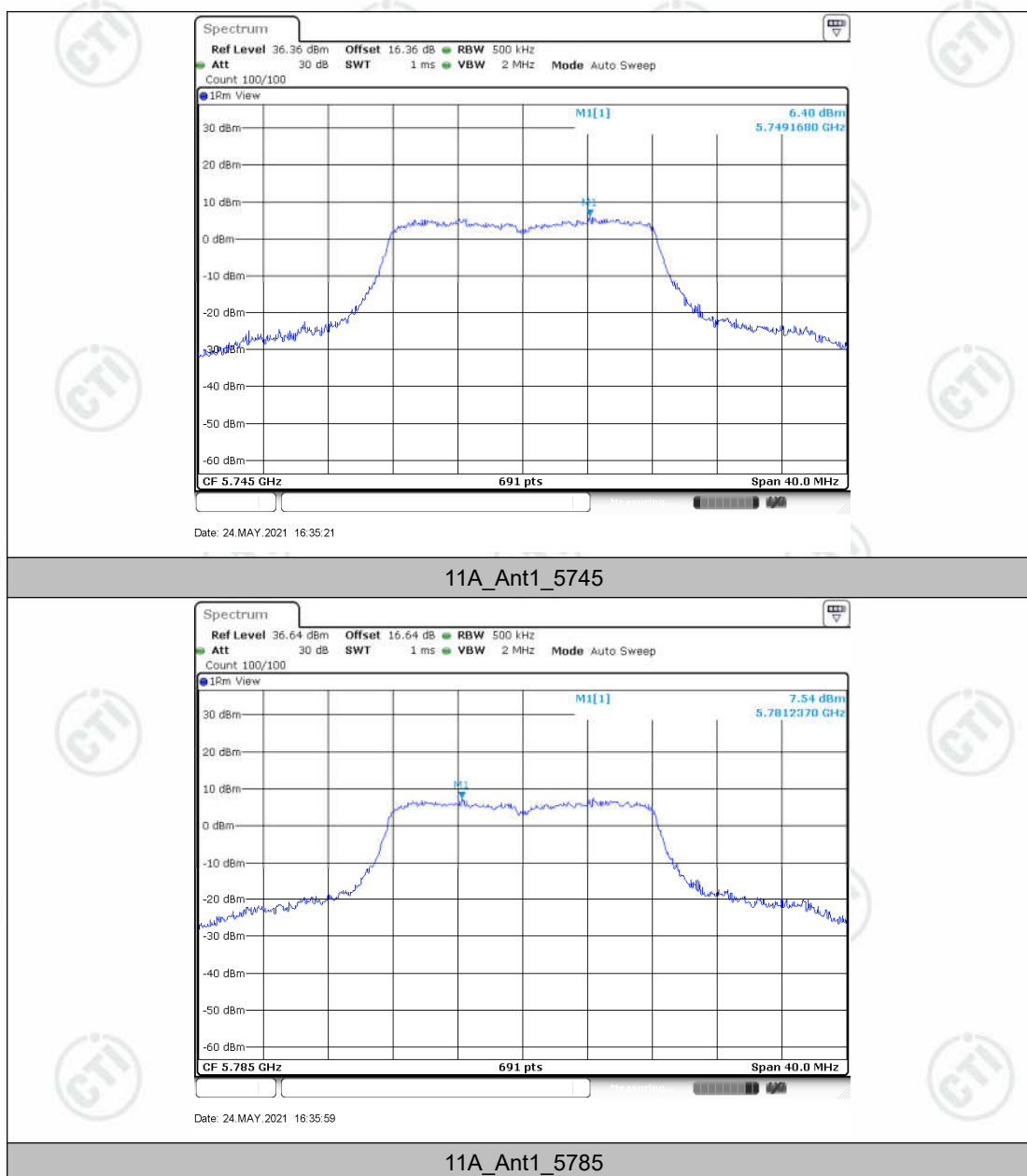
Test Result

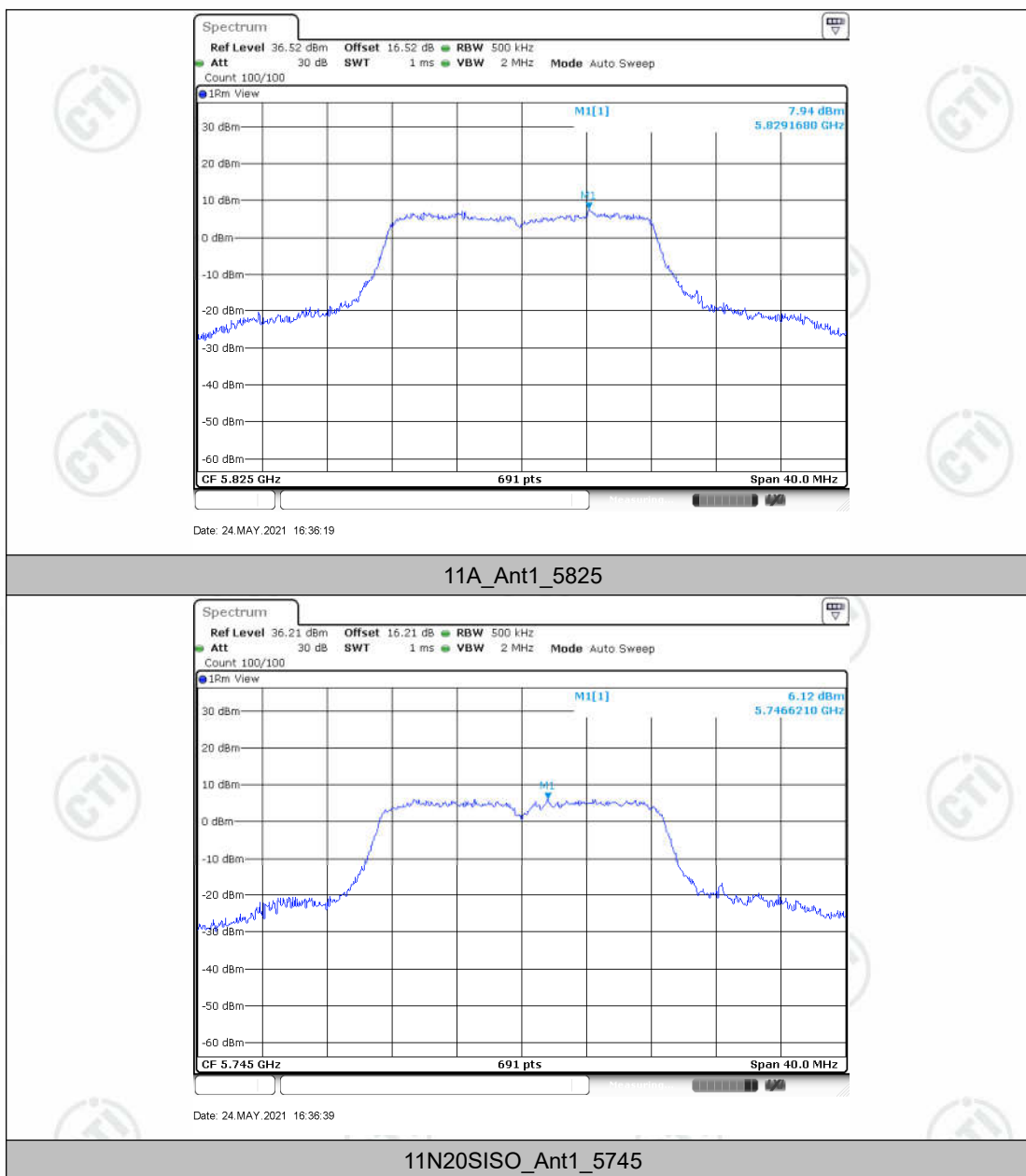
Test Mode	Antenna	Channel	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant1	5745	6.4	<=30	PASS
		5785	7.54	<=30	PASS
		5825	7.94	<=30	PASS
11N20SISO	Ant1	5745	6.12	<=30	PASS
		5785	6.48	<=30	PASS
		5825	6.54	<=30	PASS
11N40SISO	Ant1	5755	5.53	<=30	PASS
		5795	5.47	<=30	PASS
11AC20SISO	Ant1	5745	6.17	<=30	PASS
		5785	6.68	<=30	PASS
		5825	6.75	<=30	PASS
11AC40SISO	Ant1	5755	4.61	<=30	PASS
		5795	5.32	<=30	PASS
11AC80SISO	Ant1	5775	2.39	<=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.

Test Graphs



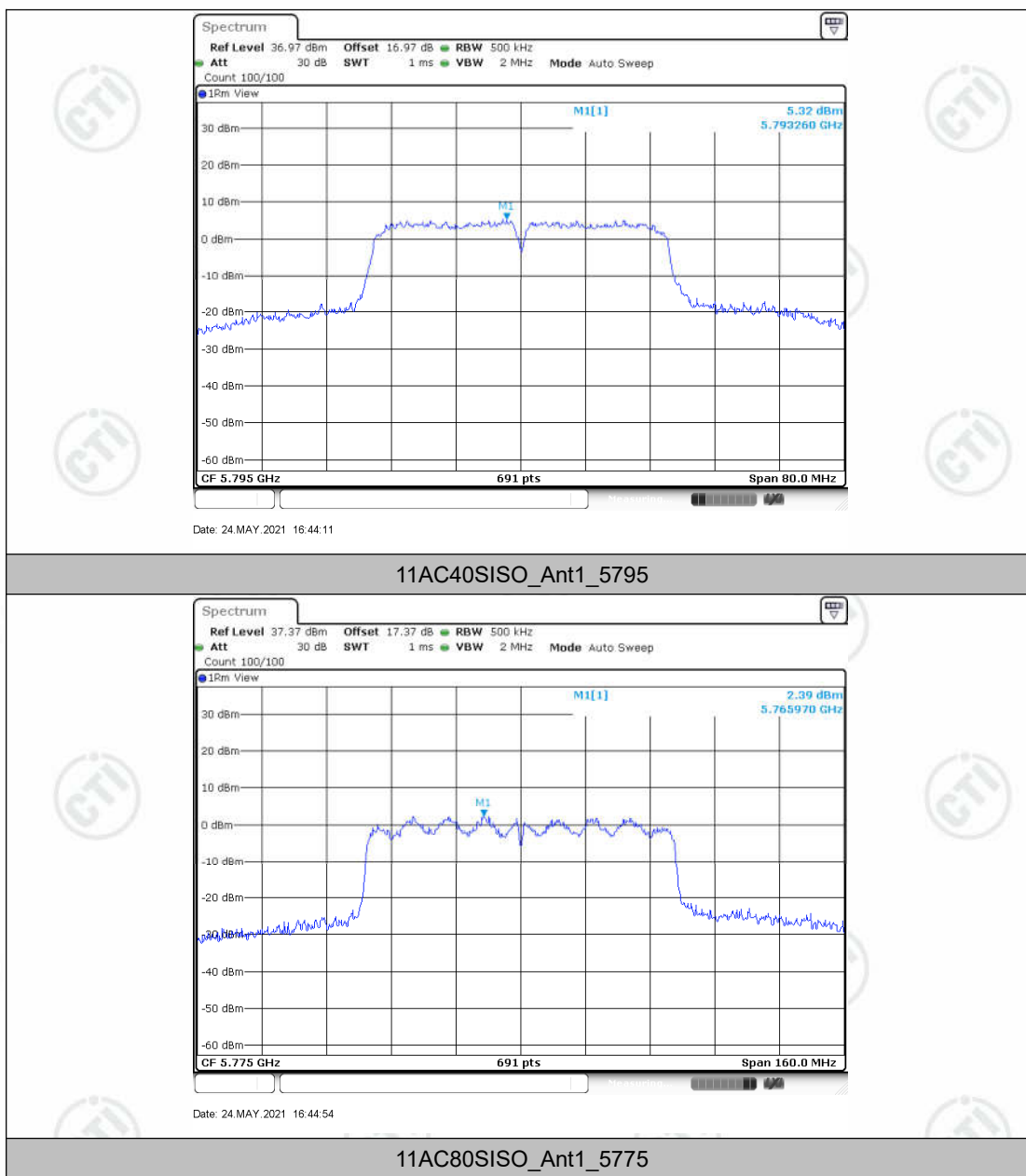












Appendix D: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-42.57	<=8.53	PASS
				5700~5720	-38.89	<=15.50	PASS
				5720~5725	-32.19	<=26.83	PASS
				5760~5650	-43.35	<=-27	PASS
		High	5825	5850~5855	-39.25	<=17.95	PASS
				5855~5875	-39.58	<=10.44	PASS
				5875~5925	-40.79	<=-0.98	PASS
				5925~5935	-42.27	<=-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-42.29	<=-26.45	PASS
				5700~5720	-37.85	<=15.50	PASS
				5720~5725	-30.2	<=23.42	PASS
				5760~5650	-43.74	<=-27	PASS
		High	5825	5850~5855	-40.25	<=25.95	PASS
				5855~5875	-41.49	<=14.29	PASS
				5875~5925	-41.19	<=-5.18	PASS
				5925~5935	-41.97	<=-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-38.12	<=8.86	PASS
				5700~5720	-26.08	<=15.35	PASS
				5720~5725	-24.31	<=19.74	PASS
				5780~5650	-43.39	<=-27	PASS
		High	5795	5850~5855	-36.45	<=21.68	PASS
				5855~5875	-39.17	<=10.87	PASS
				5875~5925	-41.03	<=-23.38	PASS
				5925~5935	-40.55	<=-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-42.04	<=-25.08	PASS
				5700~5720	-38.26	<=15.59	PASS
				5720~5725	-32.42	<=25.78	PASS
				5760~5650	-43.34	<=-27	PASS
		High	5825	5850~5855	-40.57	<=17.02	PASS
				5855~5875	-40.87	<=13.50	PASS
				5875~5925	-41.67	<=-0.48	PASS
				5925~5935	-42.76	<=-27	PASS
11AC40S	Ant1	Low	5755	5650~5700	-36.11	<=8.16	PASS

ISO		High	5795	5700~5720	-27.67	<=15.54	PASS
				5720~5725	-24.83	<=20.05	PASS
				5780~5650	-42.99	<=-27	PASS
				5850~5855	-37.03	<=16.03	PASS
				5855~5875	-38.32	<=10.55	PASS
				5875~5925	-40.87	<=-2.75	PASS
				5925~5935	-42.3	<=-27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-29.83	<=8.64	PASS
				5700~5720	-26.73	<=13.52	PASS
				5720~5725	-27.91	<=16.00	PASS
				5800~5650	-40.23	<=-27	PASS
		High	5775	5850~5855	-28.51	<=16.22	PASS
				5855~5875	-24.93	<=12.09	PASS
				5875~5925	-35.9	<=-26.27	PASS
				5925~5935	-40.94	<=-27	PASS