

Appendix G

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: Tablet

Test Model: HELIOS12 16G

Environmental Conditions

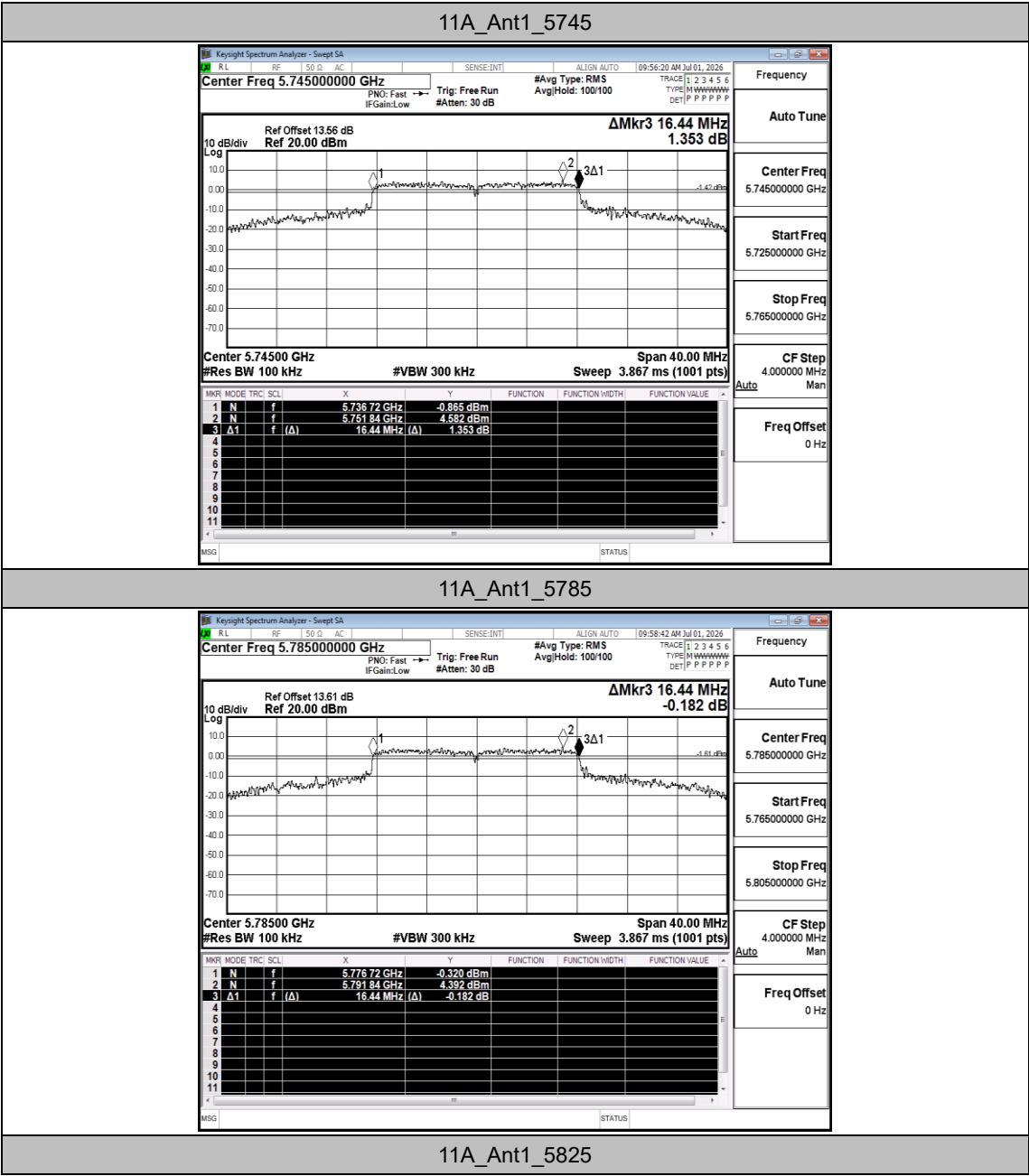
Temperature:	24.5°C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

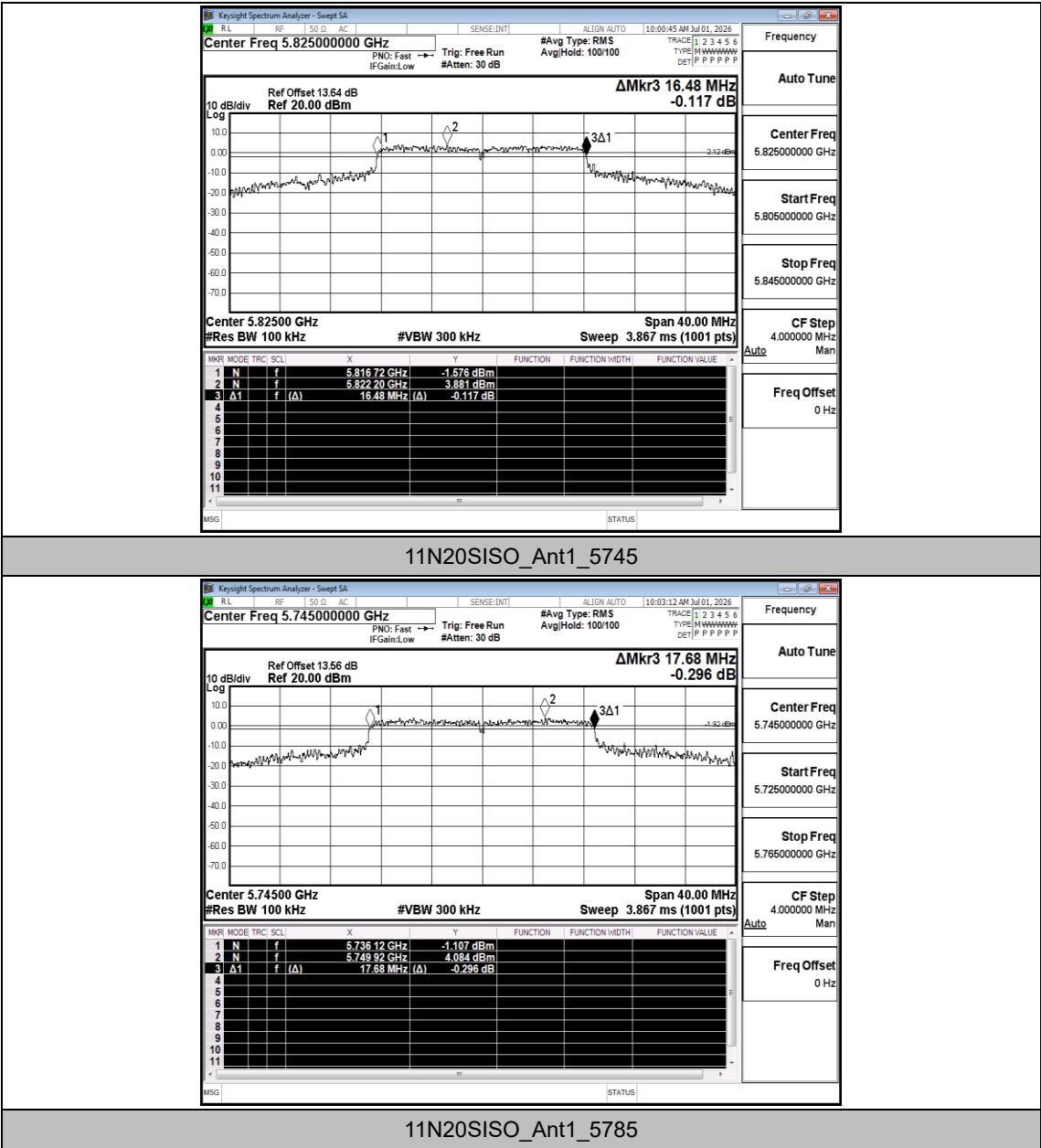
G.1 6dB bandwidth

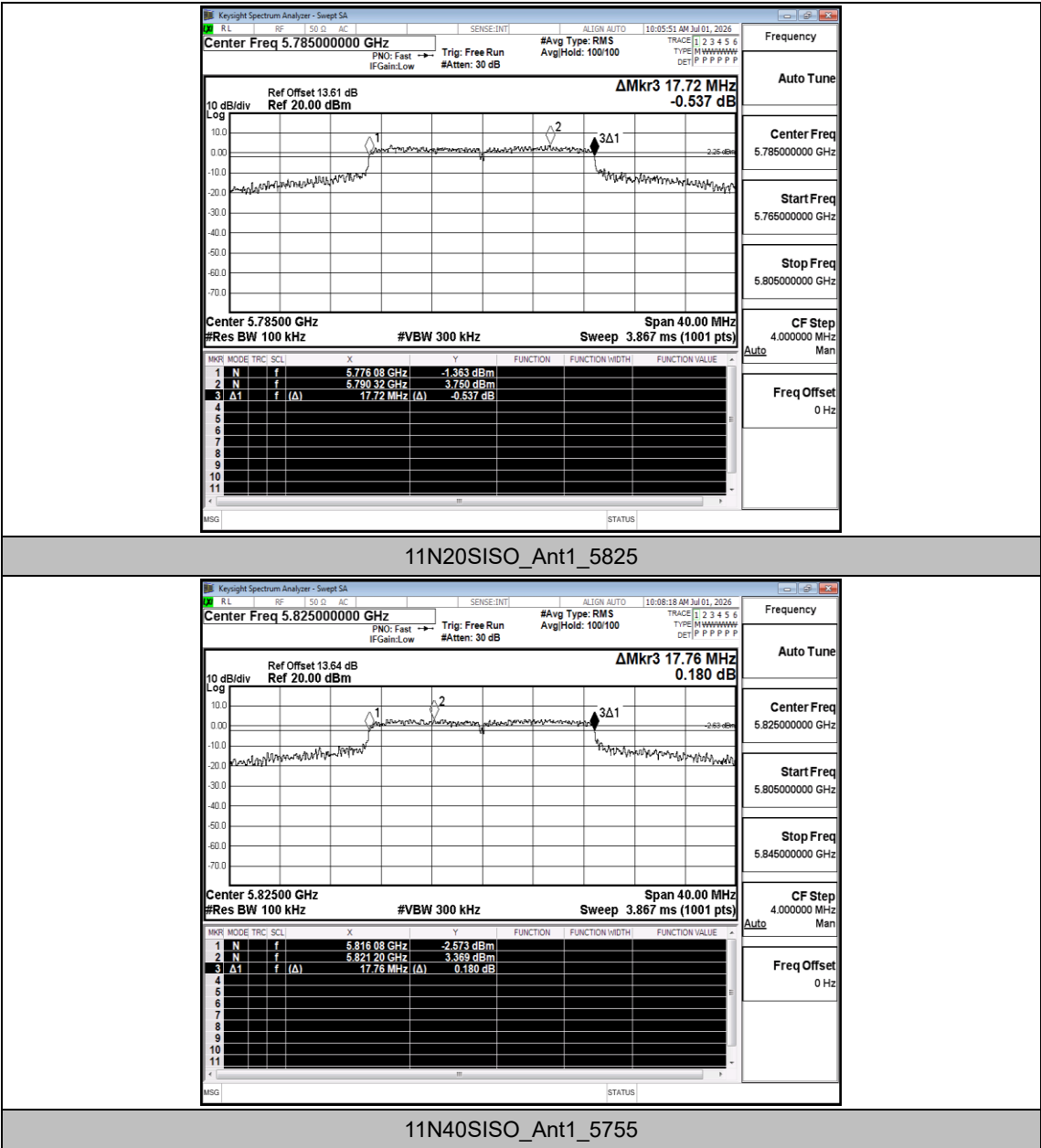
Test Result

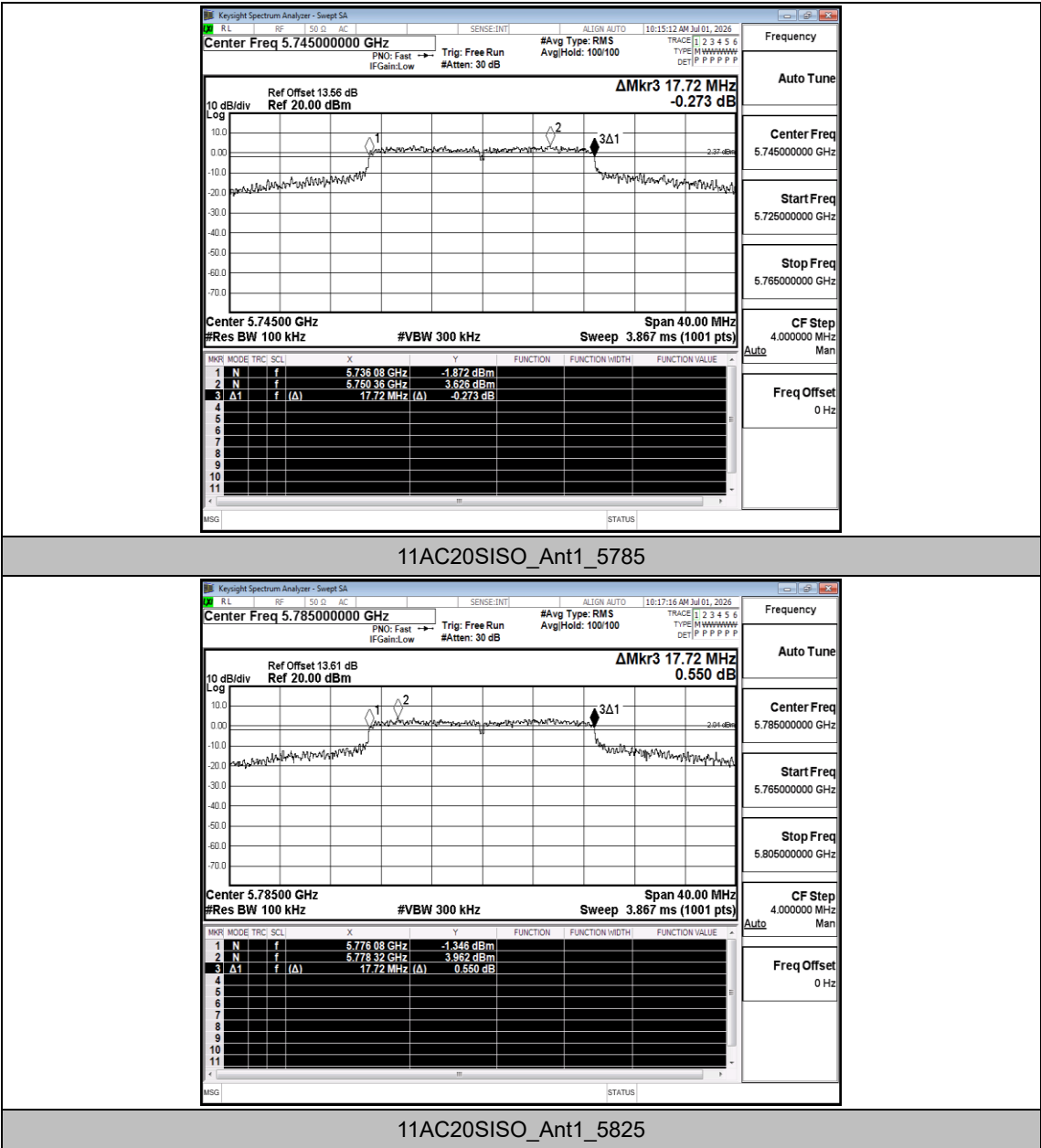
TestMode	Antenna	Freq (MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	16.440	5736.720	5753.160	0.5	PASS
		5785	16.440	5776.720	5793.160	0.5	PASS
		5825	16.480	5816.720	5833.200	0.5	PASS
11N20SISO	Ant1	5745	17.680	5736.120	5753.800	0.5	PASS
		5785	17.720	5776.080	5793.800	0.5	PASS
		5825	17.760	5816.080	5833.840	0.5	PASS
11N40SISO	Ant1	5755	36.400	5736.760	5773.160	0.5	PASS
		5795	36.400	5776.760	5813.160	0.5	PASS
11AC20SISO	Ant1	5745	17.720	5736.080	5753.800	0.5	PASS
		5785	17.720	5776.080	5793.800	0.5	PASS
		5825	17.720	5816.080	5833.800	0.5	PASS
11AC40SISO	Ant1	5755	36.400	5736.760	5773.160	0.5	PASS
		5795	36.320	5776.760	5813.080	0.5	PASS
11AC80SISO	Ant1	5775	76.000	5737.080	5813.080	0.5	PASS

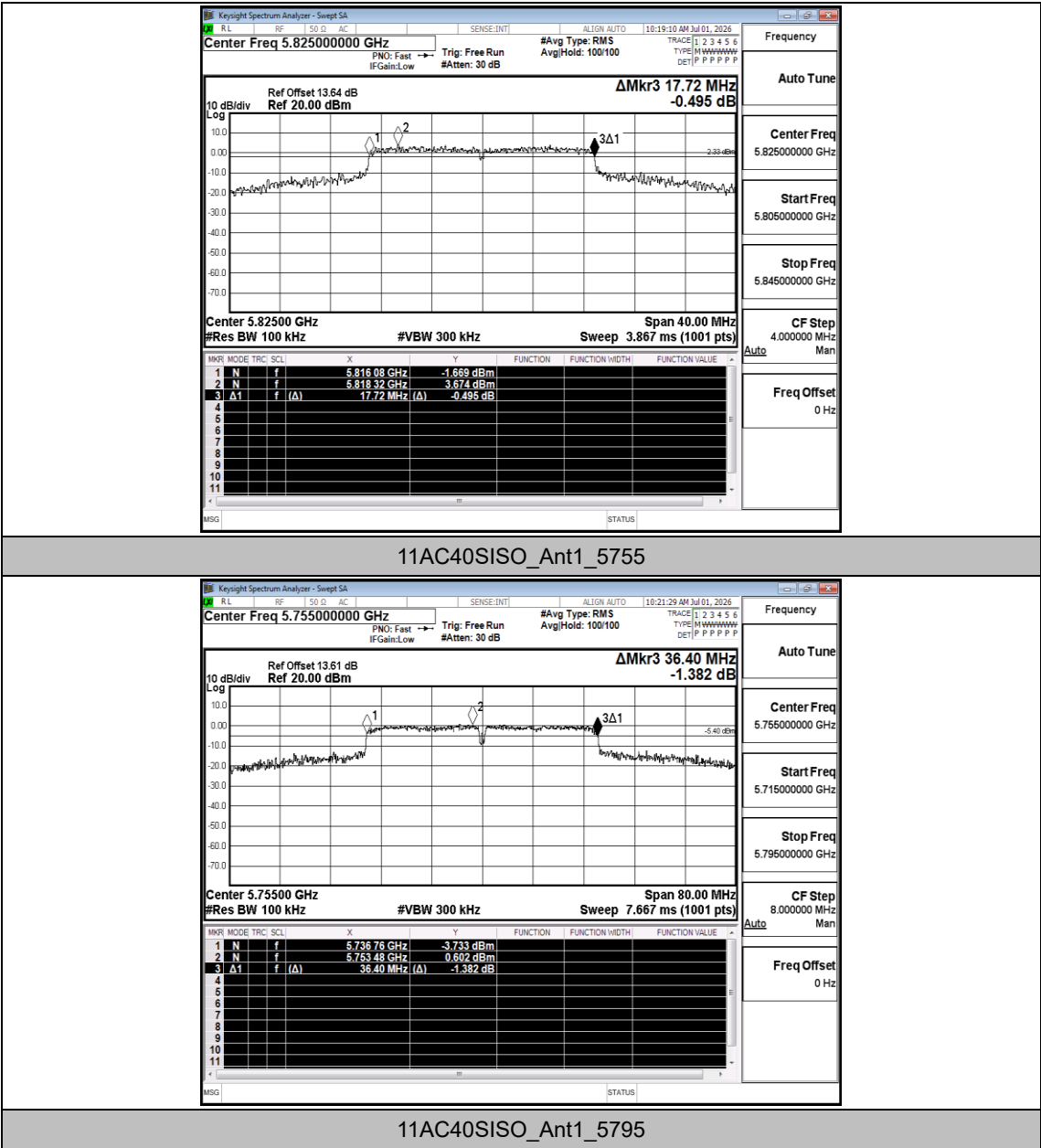
Test Graphs

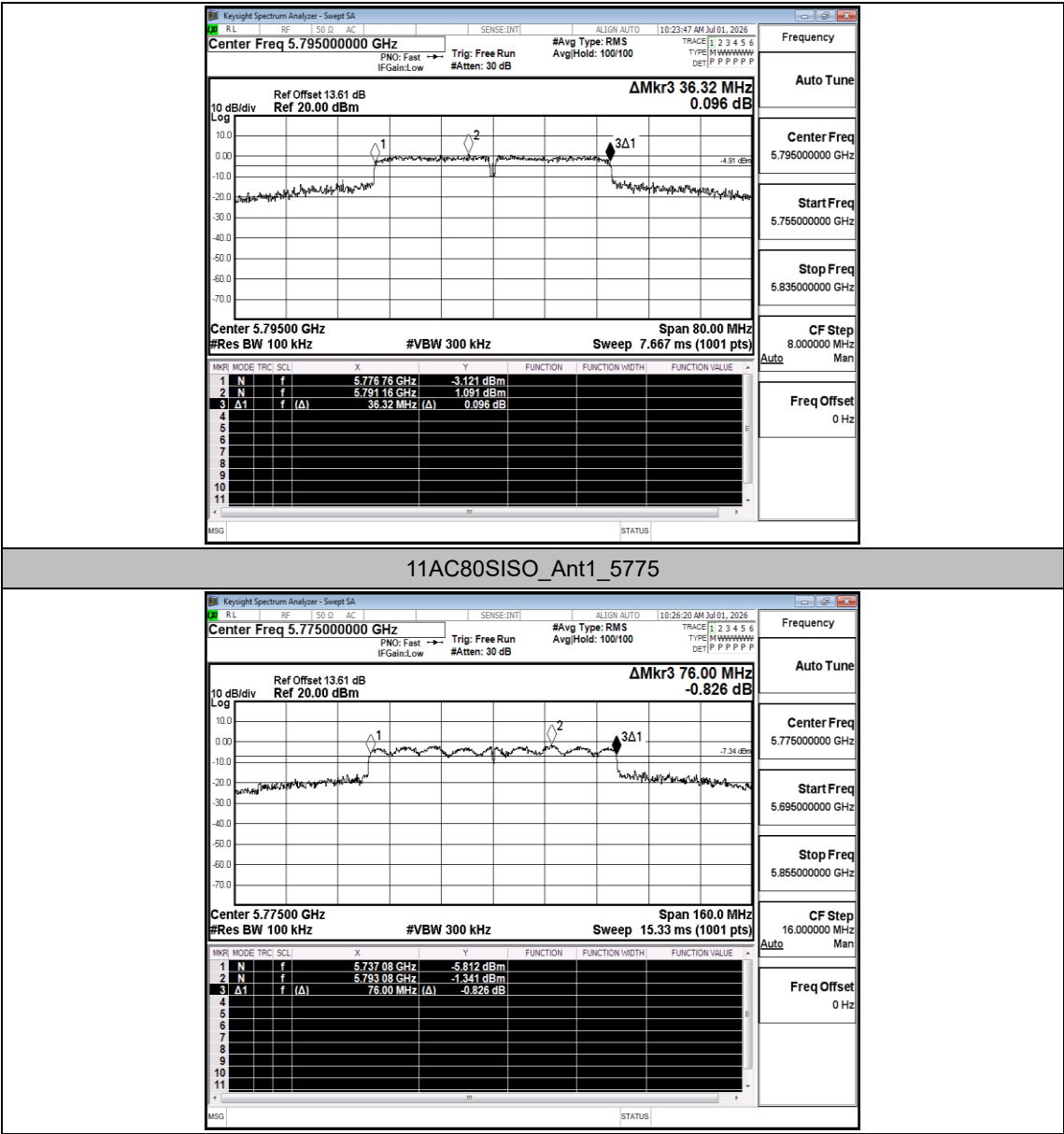








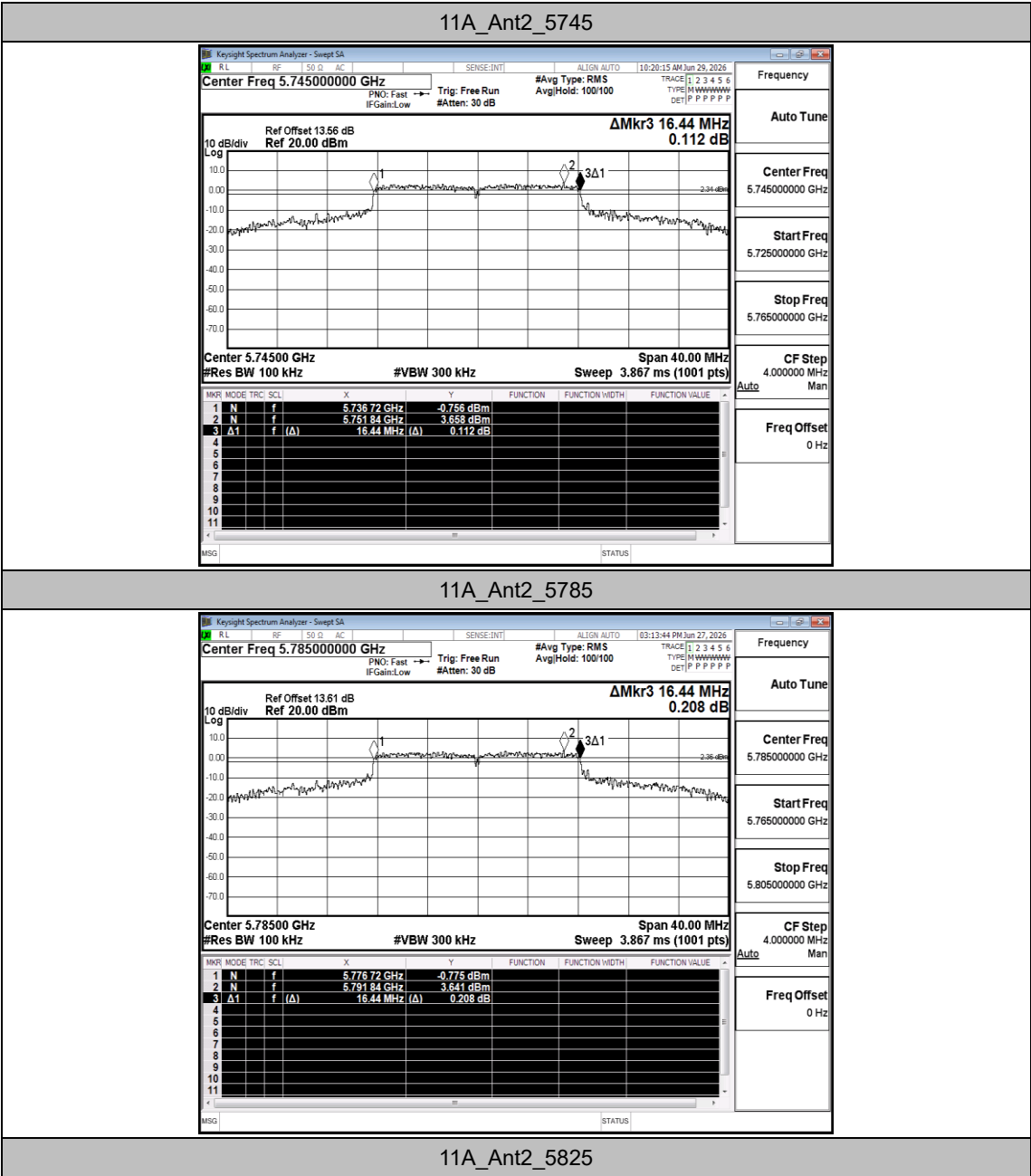


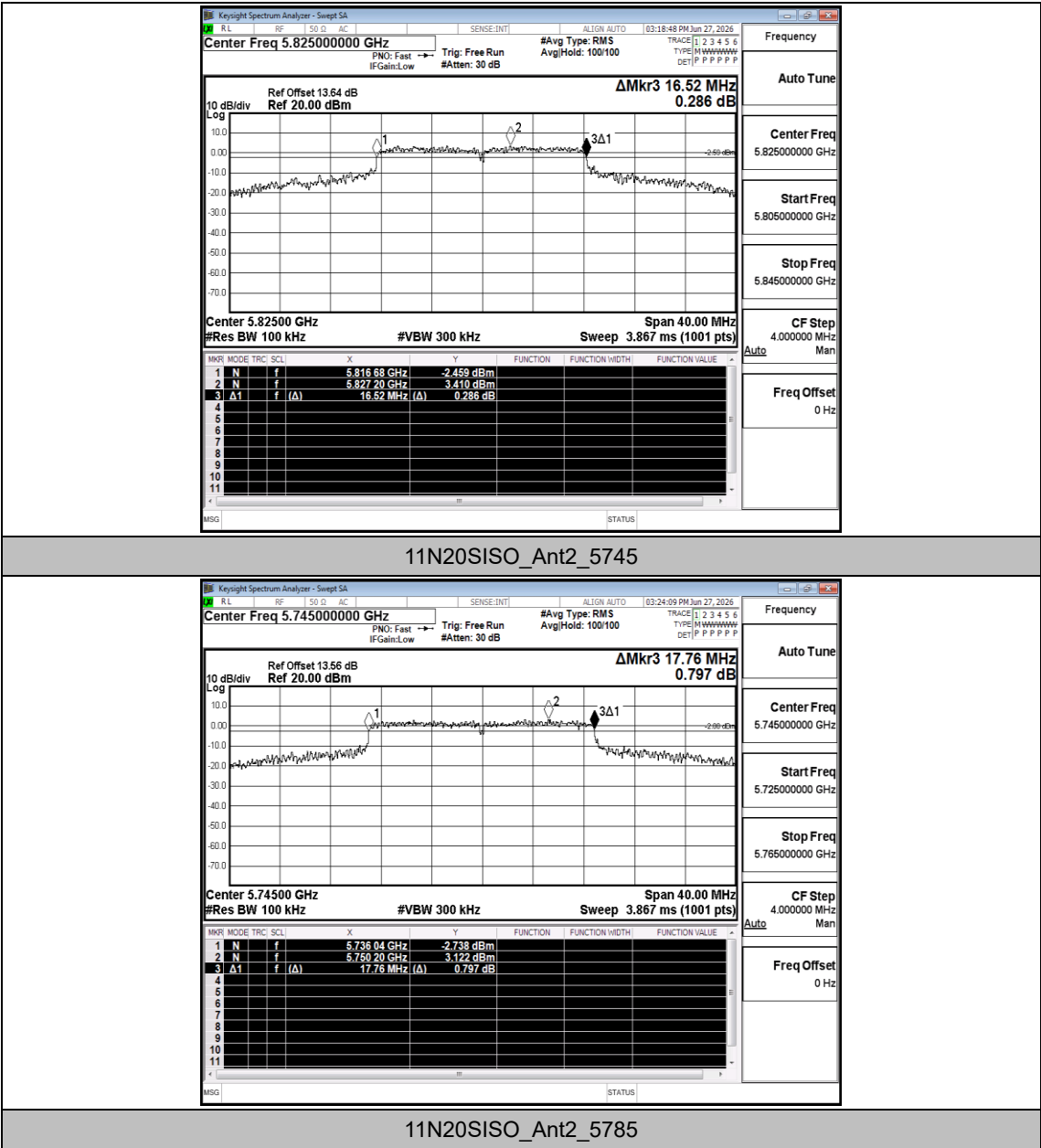


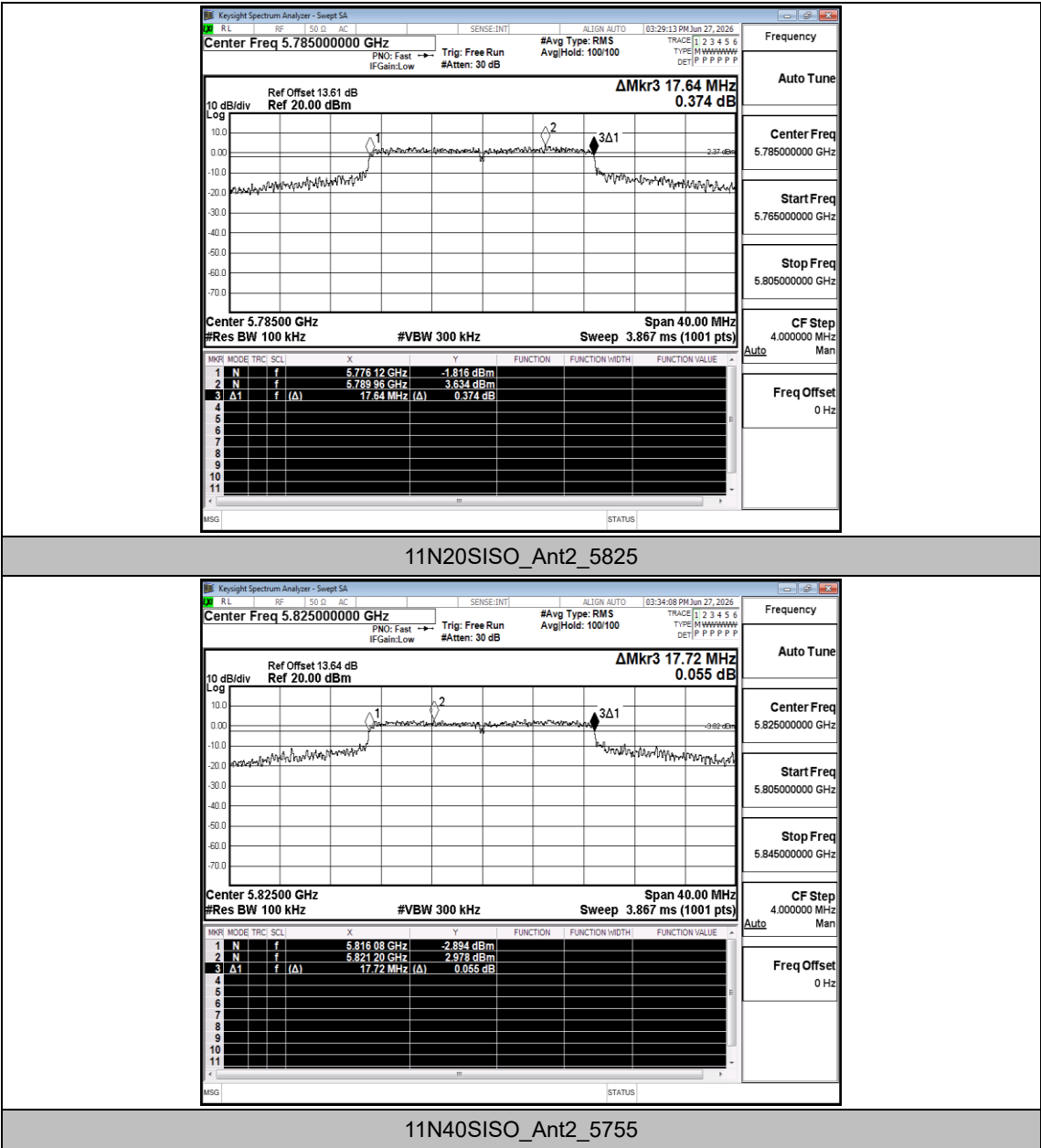
Test Result

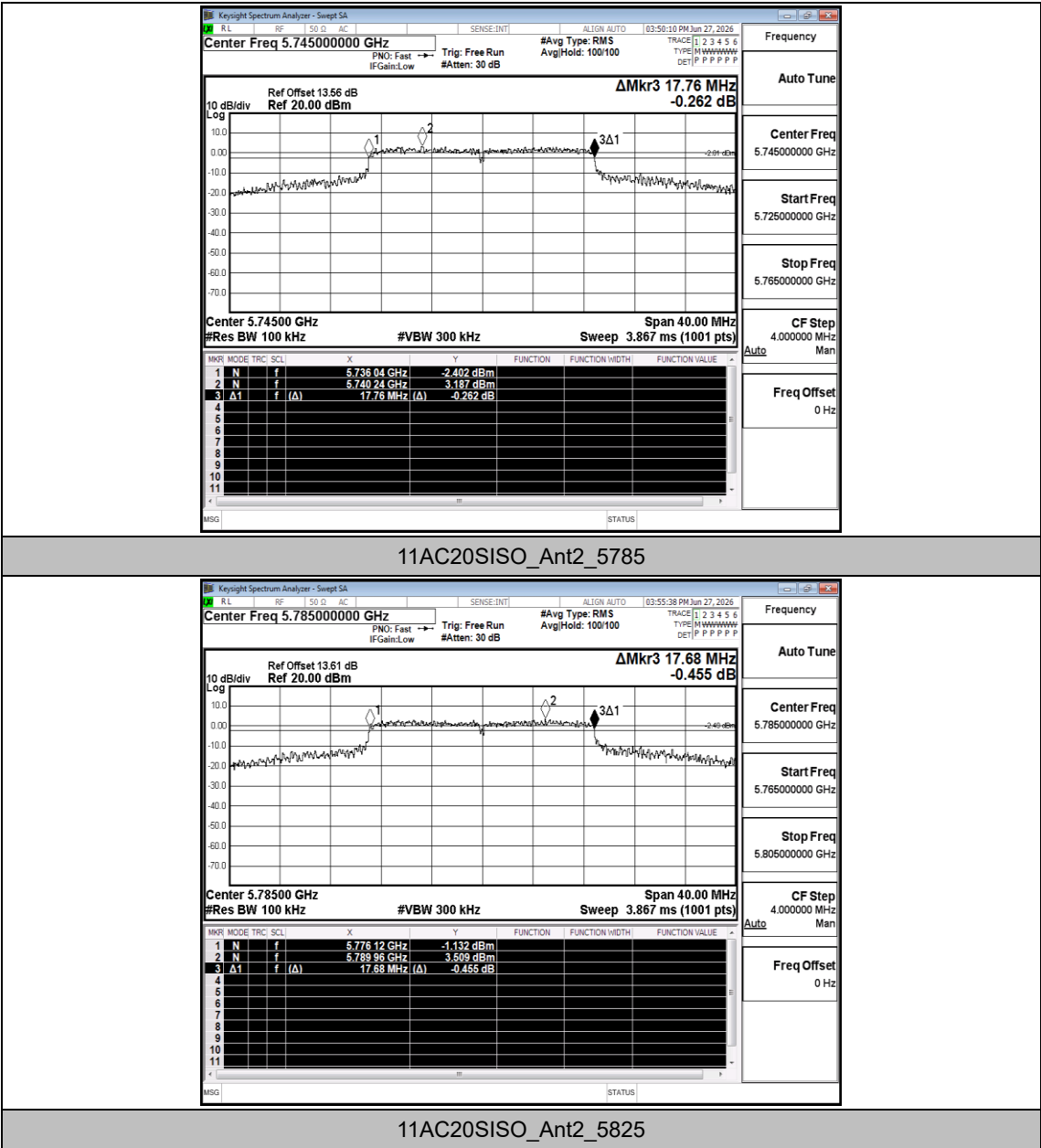
TestMode	Antenna	Freq (MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant2	5745	16.440	5736.720	5753.160	0.5	PASS
		5785	16.440	5776.720	5793.160	0.5	PASS
		5825	16.520	5816.680	5833.200	0.5	PASS
11N20SISO	Ant2	5745	17.760	5736.040	5753.800	0.5	PASS
		5785	17.640	5776.120	5793.760	0.5	PASS
		5825	17.720	5816.080	5833.800	0.5	PASS
11N40SISO	Ant2	5755	36.400	5736.760	5773.160	0.5	PASS
		5795	36.400	5776.760	5813.160	0.5	PASS
11AC20SISO	Ant2	5745	17.760	5736.040	5753.800	0.5	PASS
		5785	17.680	5776.120	5793.800	0.5	PASS
		5825	17.760	5816.040	5833.800	0.5	PASS
11AC40SISO	Ant2	5755	36.320	5736.760	5773.080	0.5	PASS
		5795	36.400	5776.760	5813.160	0.5	PASS
11AC80SISO	Ant2	5775	75.360	5737.400	5812.760	0.5	PASS

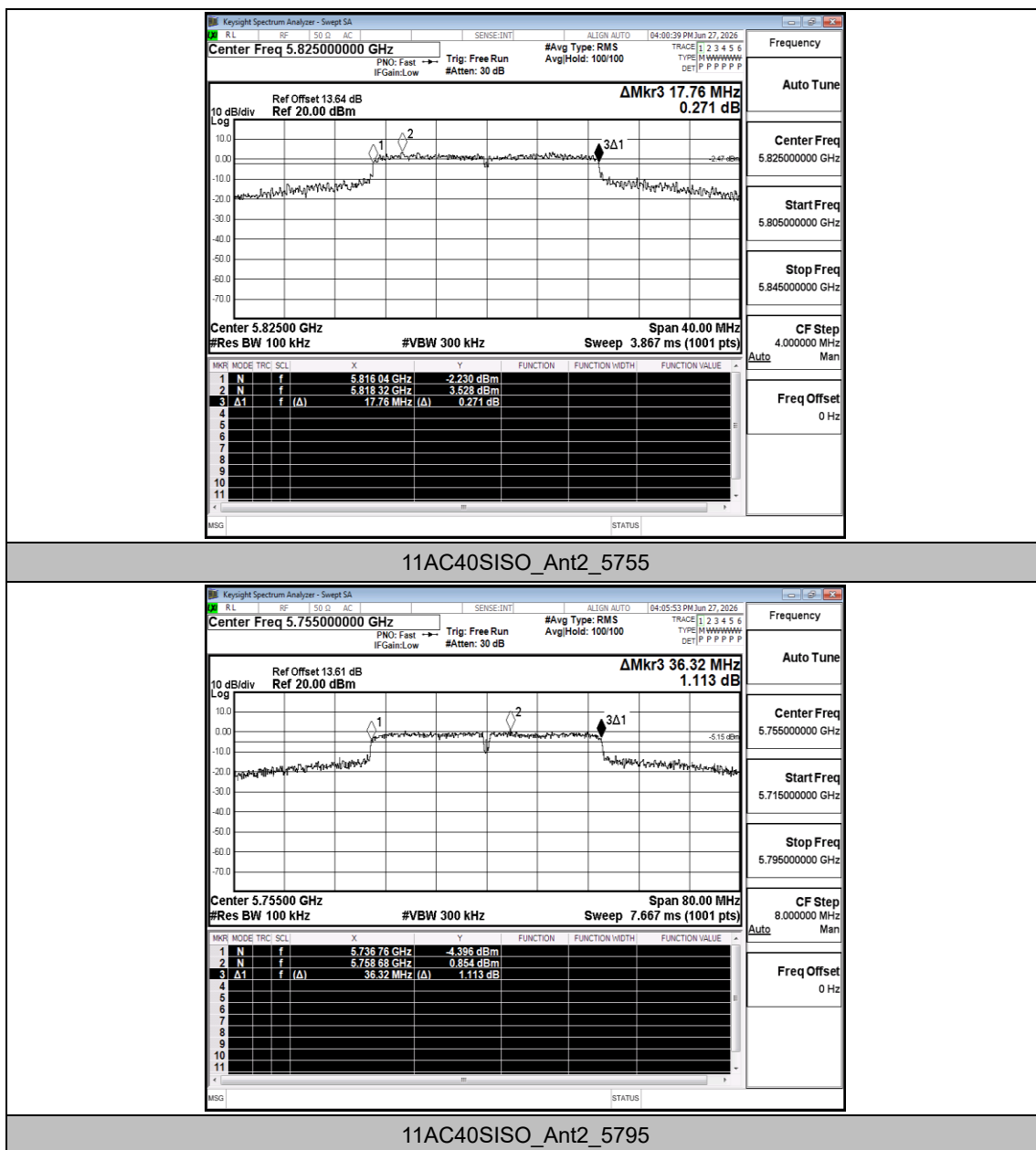
Test Graphs

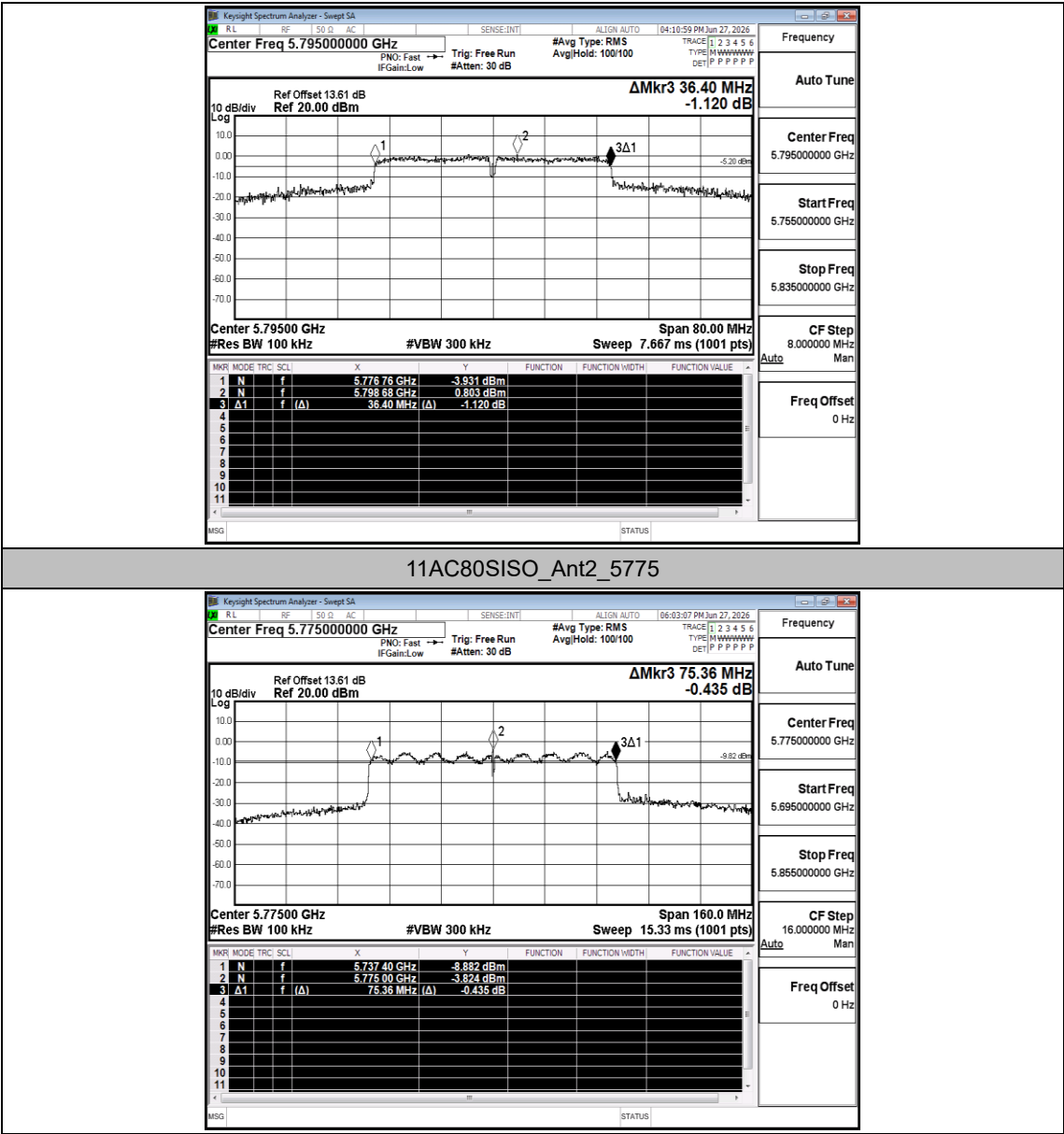












G.2 Maximum conducted output power

Test Result

Test Mode	Antenna	Freq (MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	NA	18.39	0.00	18.39	≤30.00	PASS
		5785	NA	18.38	0.00	18.38	≤30.00	PASS
		5825	NA	18.37	0.00	18.37	≤30.00	PASS
11N20SISO	Ant1	5745	NA	18.39	0.00	18.39	≤30.00	PASS
		5785	NA	18.38	0.00	18.38	≤30.00	PASS
		5825	NA	18.37	0.00	18.37	≤30.00	PASS
11N40SISO	Ant1	5755	NA	18.39	0.00	18.39	≤30.00	PASS
		5795	NA	18.37	0.00	18.37	≤30.00	PASS
11AC20SISO	Ant1	5745	NA	18.39	0.00	18.39	≤30.00	PASS
		5785	NA	18.38	0.00	18.38	≤30.00	PASS
		5825	NA	18.37	0.00	18.37	≤30.00	PASS
11AC40SISO	Ant1	5755	NA	18.39	0.00	18.39	≤30.00	PASS
		5795	NA	18.37	0.00	18.37	≤30.00	PASS
11AC80SISO	Ant1	5775	NA	18.38	0.00	18.38	≤30.00	PASS

Test Result

Test Mode	Antenna	Freq (MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	5745	NA	18.33	0.00	18.33	≤30.00	PASS
		5785	NA	18.26	0.00	18.26	≤30.00	PASS
		5825	NA	18.27	0.00	18.27	≤30.00	PASS
11N20SISO	Ant2	5745	NA	18.32	0.00	18.32	≤30.00	PASS
		5785	NA	18.32	0.00	18.32	≤30.00	PASS
		5825	NA	18.29	0.00	18.29	≤30.00	PASS
11N40SISO	Ant2	5755	NA	18.35	0.00	18.35	≤30.00	PASS
		5795	NA	18.33	0.00	18.33	≤30.00	PASS
11AC20SISO	Ant2	5745	NA	18.32	0.00	18.32	≤30.00	PASS
		5785	NA	18.31	0.00	18.31	≤30.00	PASS
		5825	NA	18.34	0.00	18.34	≤30.00	PASS
11AC40SISO	Ant2	5755	NA	18.33	0.00	18.33	≤30.00	PASS
		5795	NA	18.31	0.00	18.31	≤30.00	PASS
11AC80SISO	Ant2	5775	NA	18.34	0.00	18.34	≤30.00	PASS

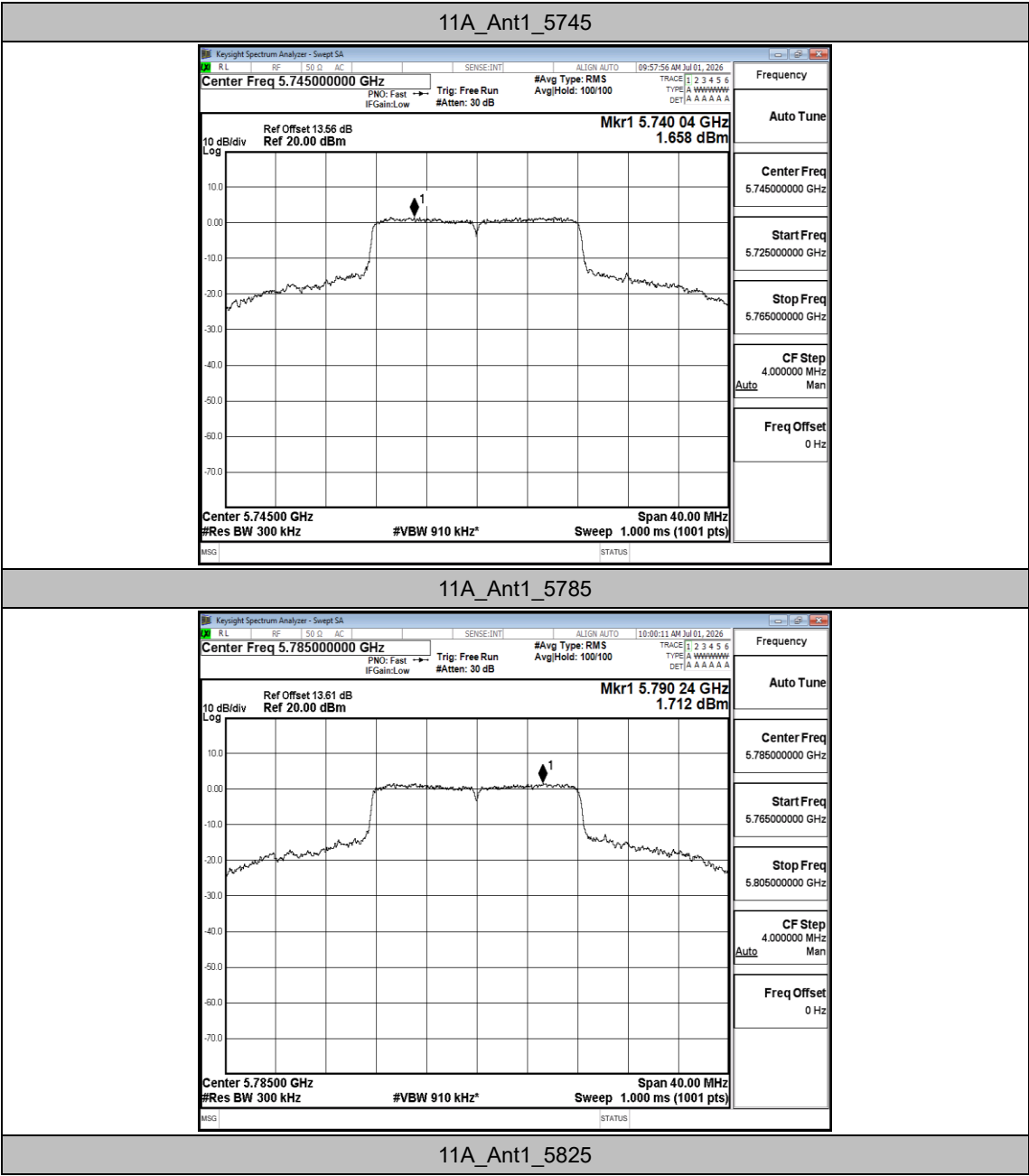
G.3 Maximum power spectral density

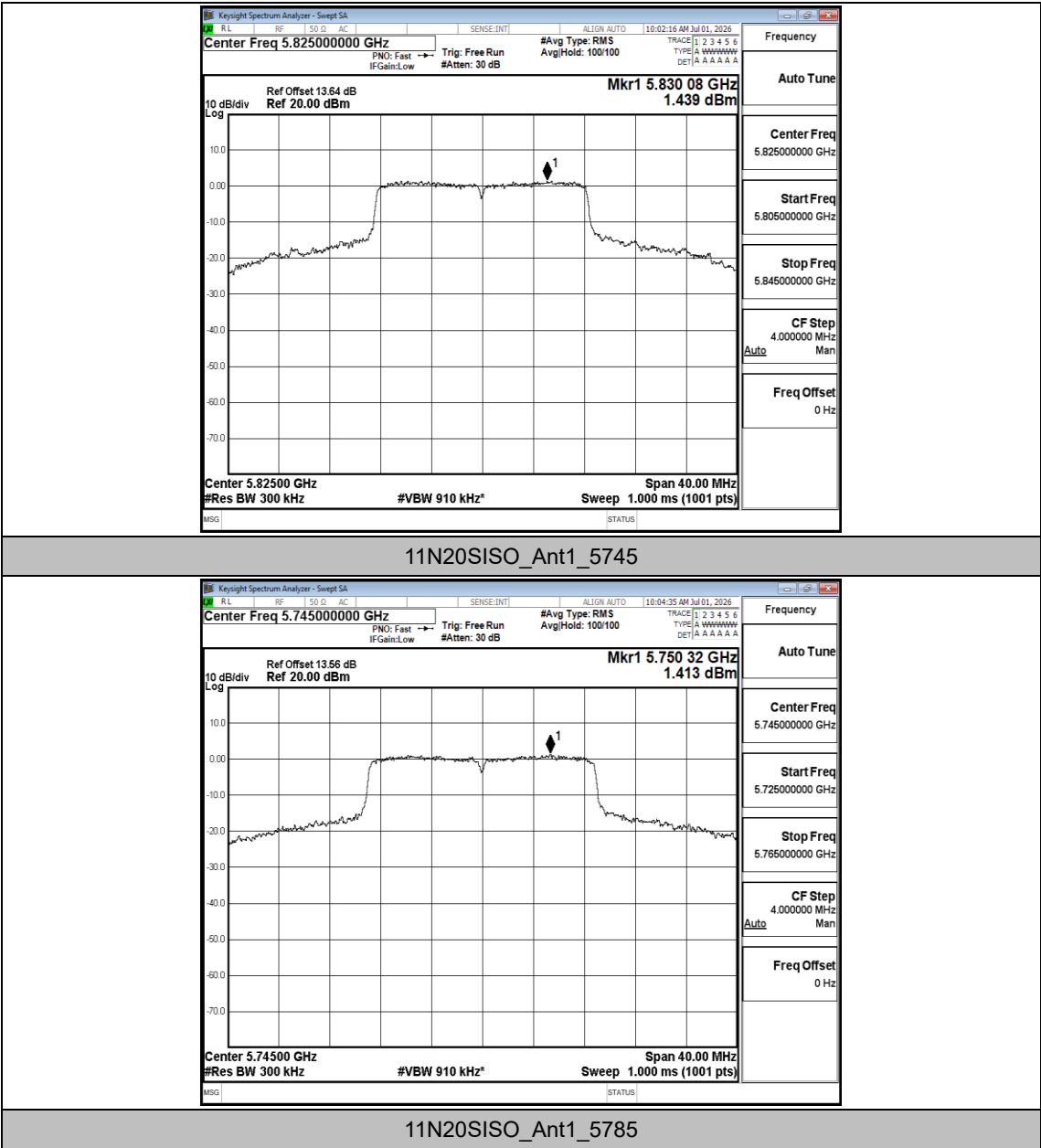
Test Result

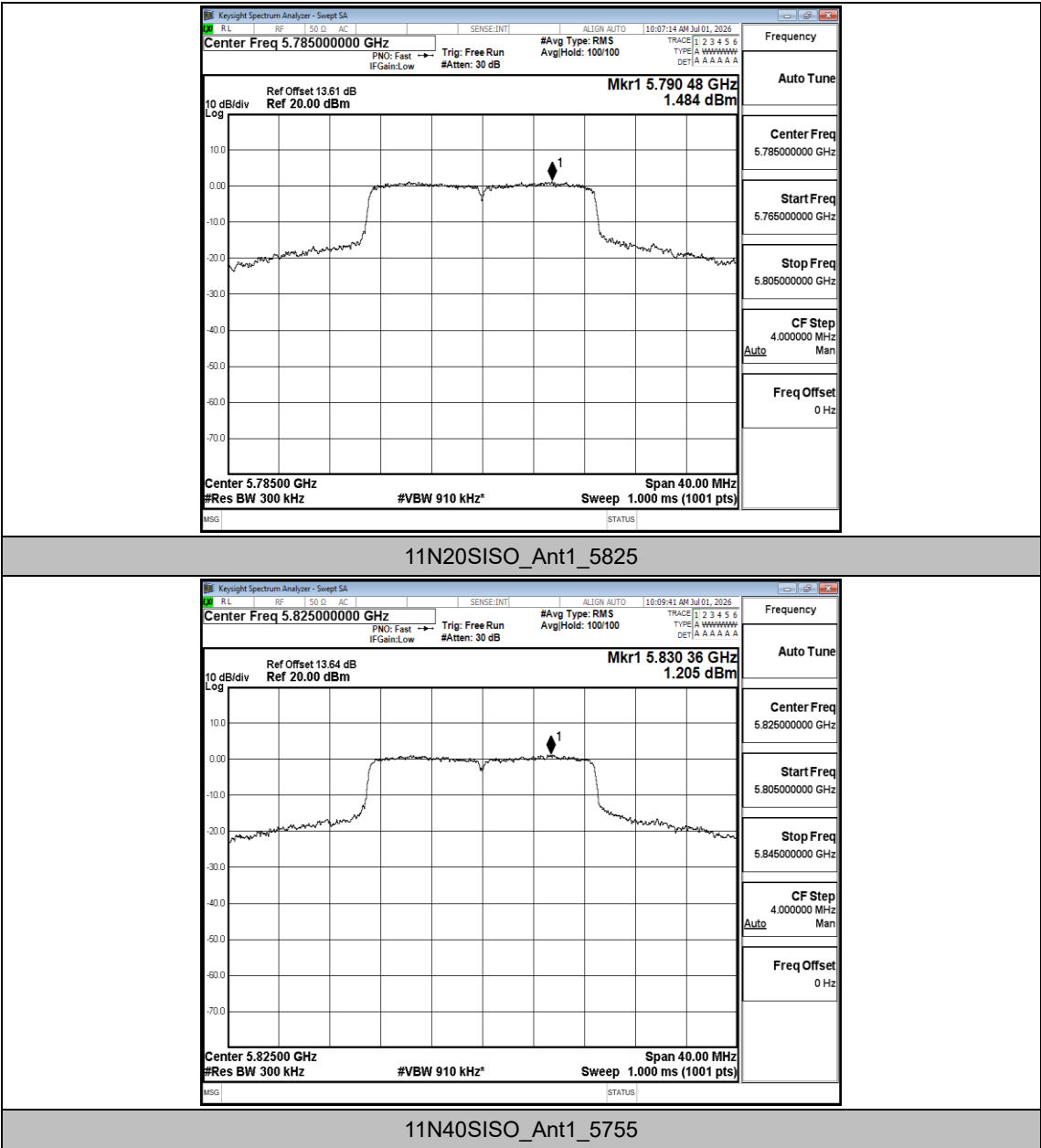
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/500KHz]	DC Factor	RBW Factor	Result [dBm/500KHz]	Limit [dBm/500KHz]	Verdict
11A	Ant1	5745	1.66	0.00	2.22	3.88	≤30.00	PASS
		5785	1.71	0.00	2.22	3.93	≤30.00	PASS
		5825	1.44	0.00	2.22	3.66	≤30.00	PASS
11N20SISO	Ant1	5745	1.41	0.00	2.22	3.63	≤30.00	PASS
		5785	1.48	0.00	2.22	3.70	≤30.00	PASS
		5825	1.21	0.00	2.22	3.43	≤30.00	PASS
11N40SISO	Ant1	5755	-1.61	0.00	2.22	0.61	≤30.00	PASS
		5795	-1.94	0.00	2.22	0.28	≤30.00	PASS
11AC20SISO	Ant1	5745	1.16	0.00	2.22	3.38	≤30.00	PASS
		5785	1.27	0.00	2.22	3.49	≤30.00	PASS
		5825	1.5	0.00	2.22	3.72	≤30.00	PASS
11AC40SISO	Ant1	5755	-1.84	0.00	2.22	0.38	≤30.00	PASS
		5795	-1.65	0.00	2.22	0.57	≤30.00	PASS
11AC80SISO	Ant1	5775	-3.94	0.00	2.22	-1.72	≤30.00	PASS

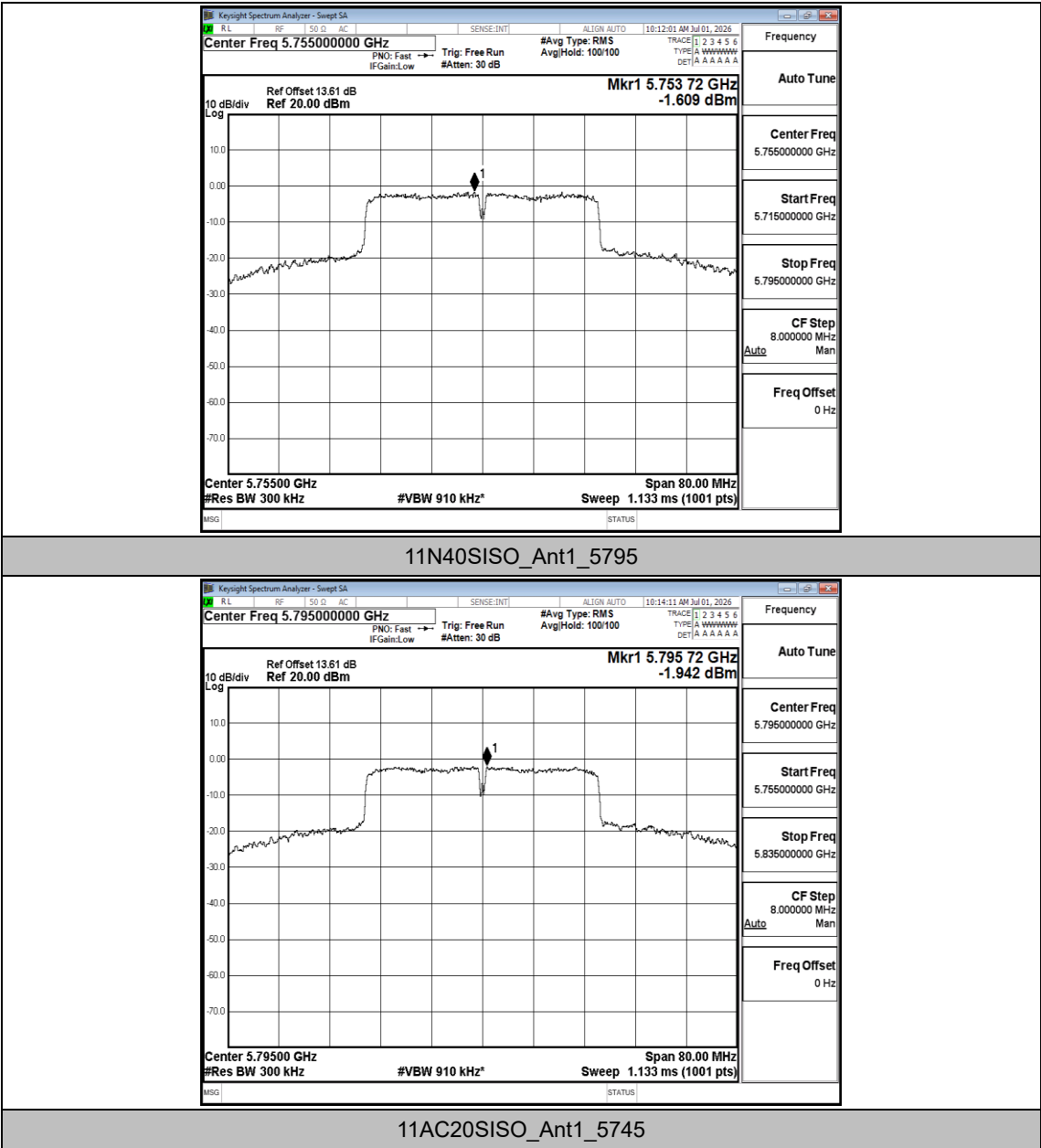
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

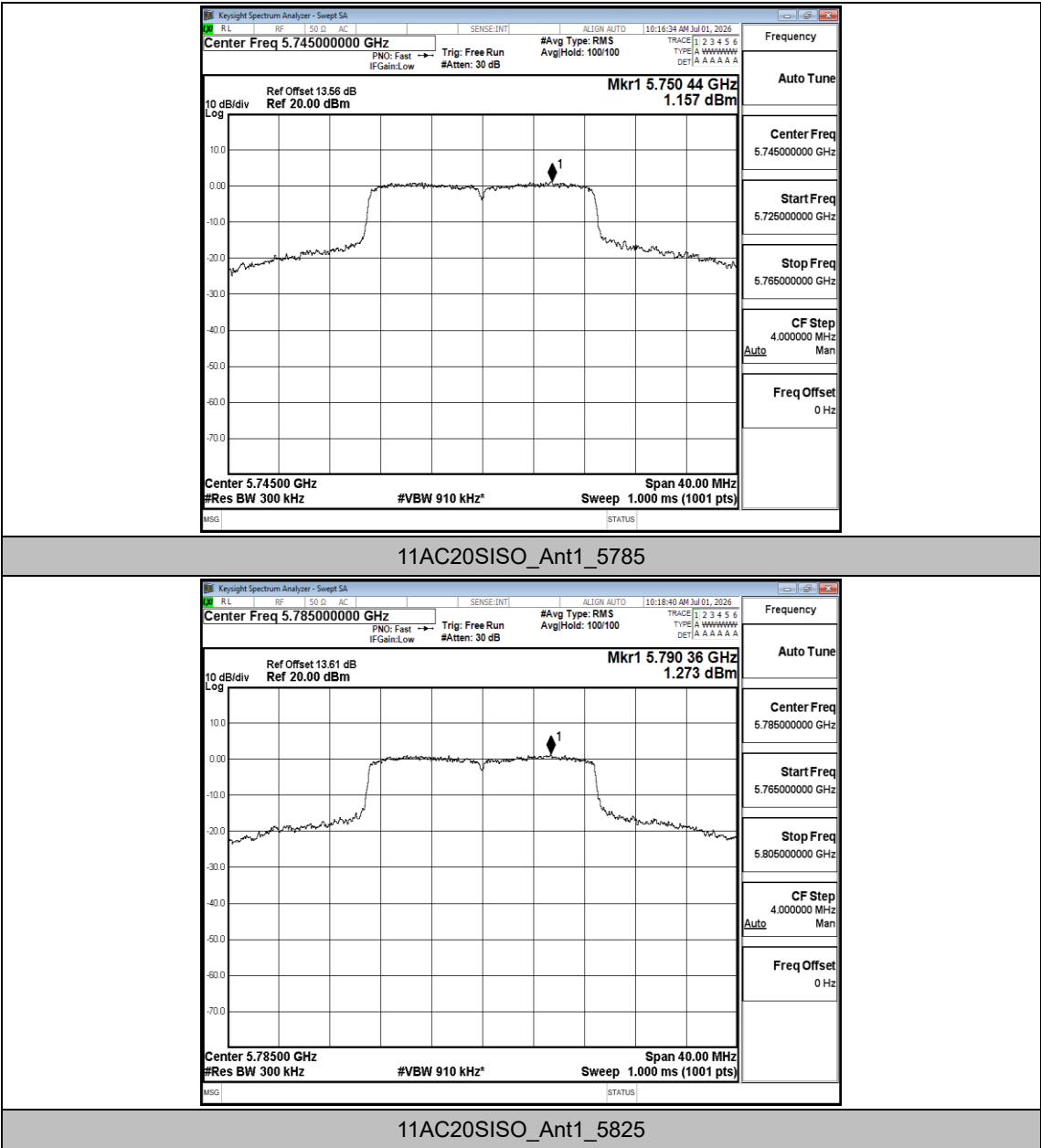
Test Graphs

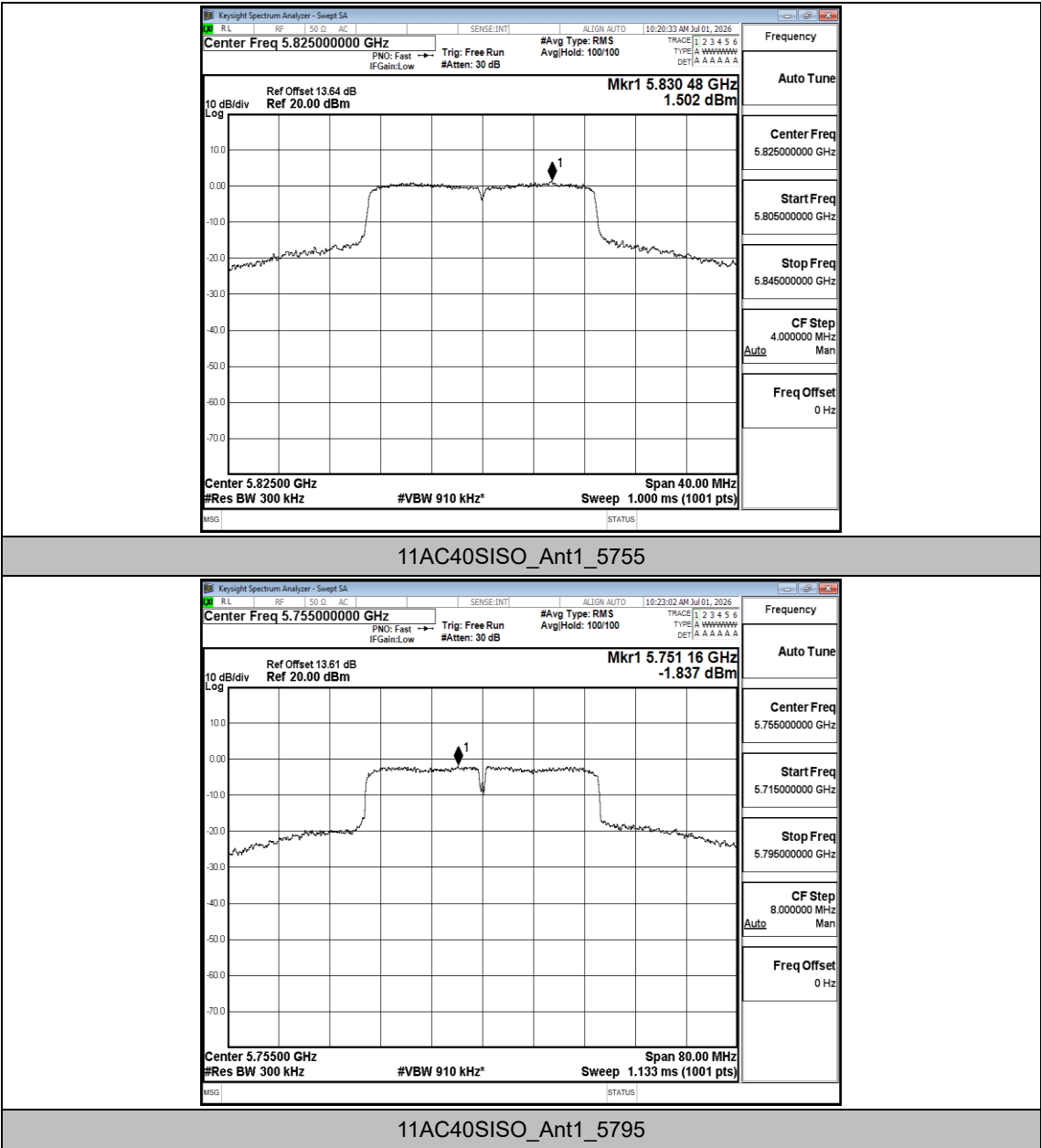


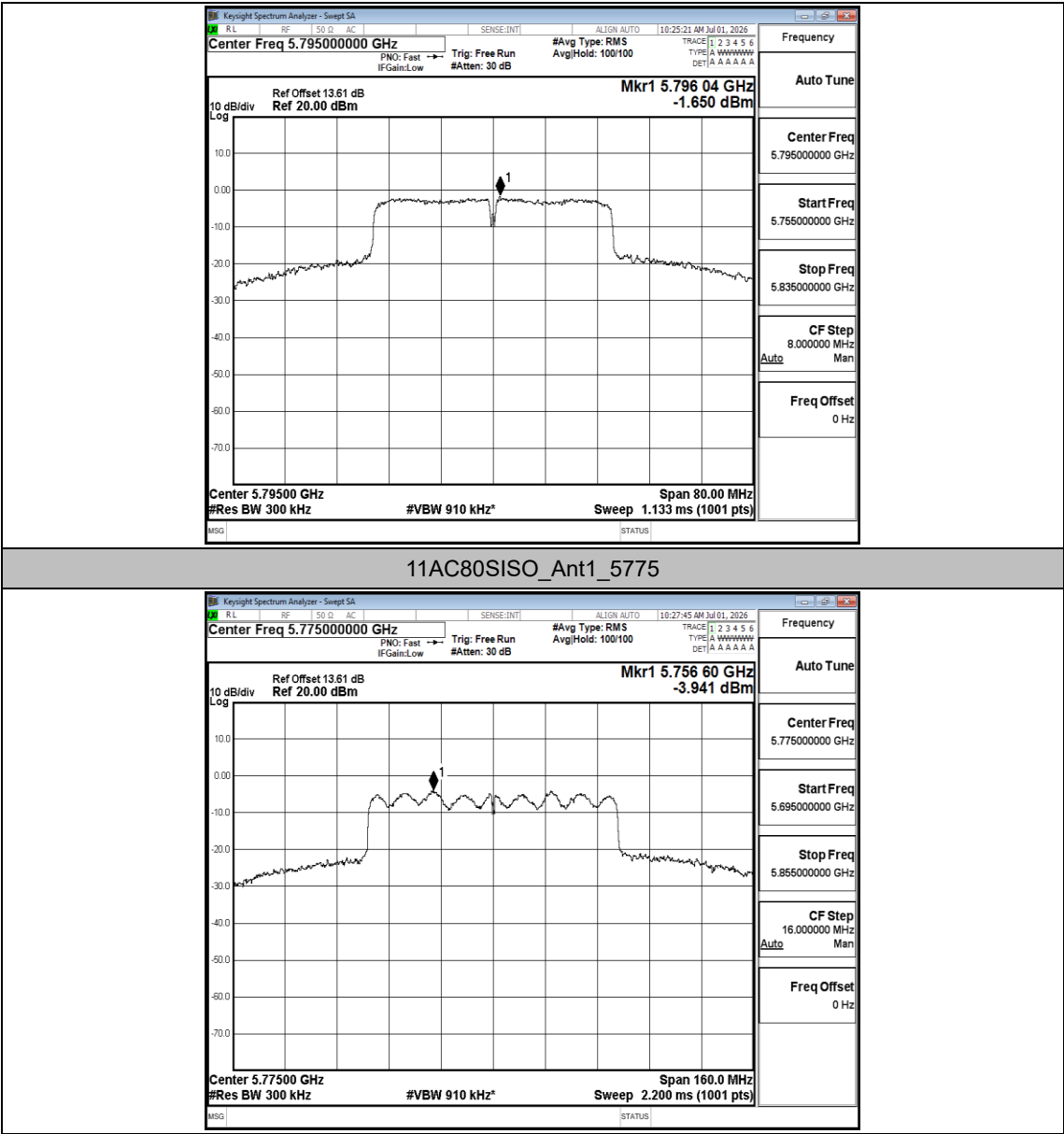










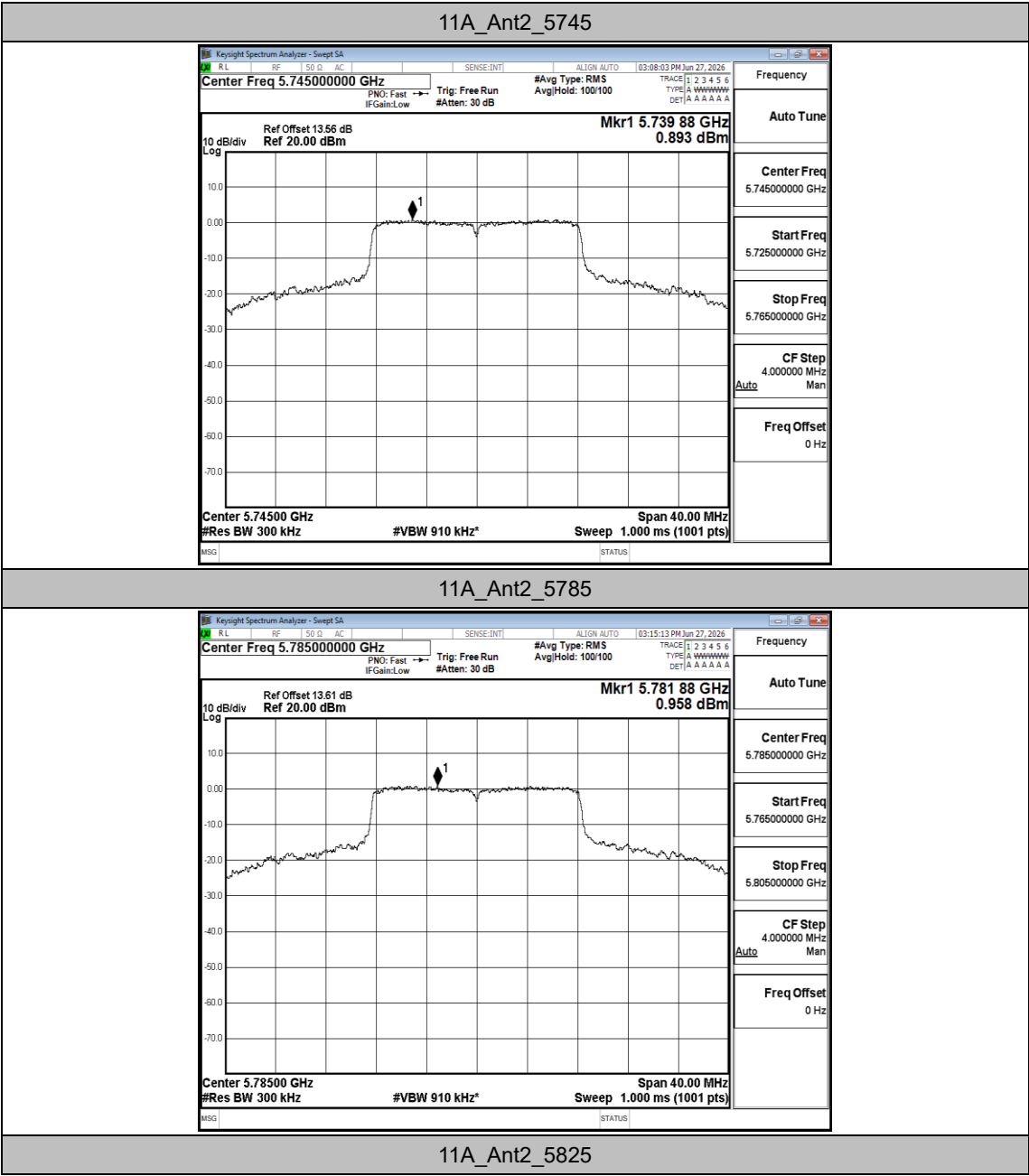


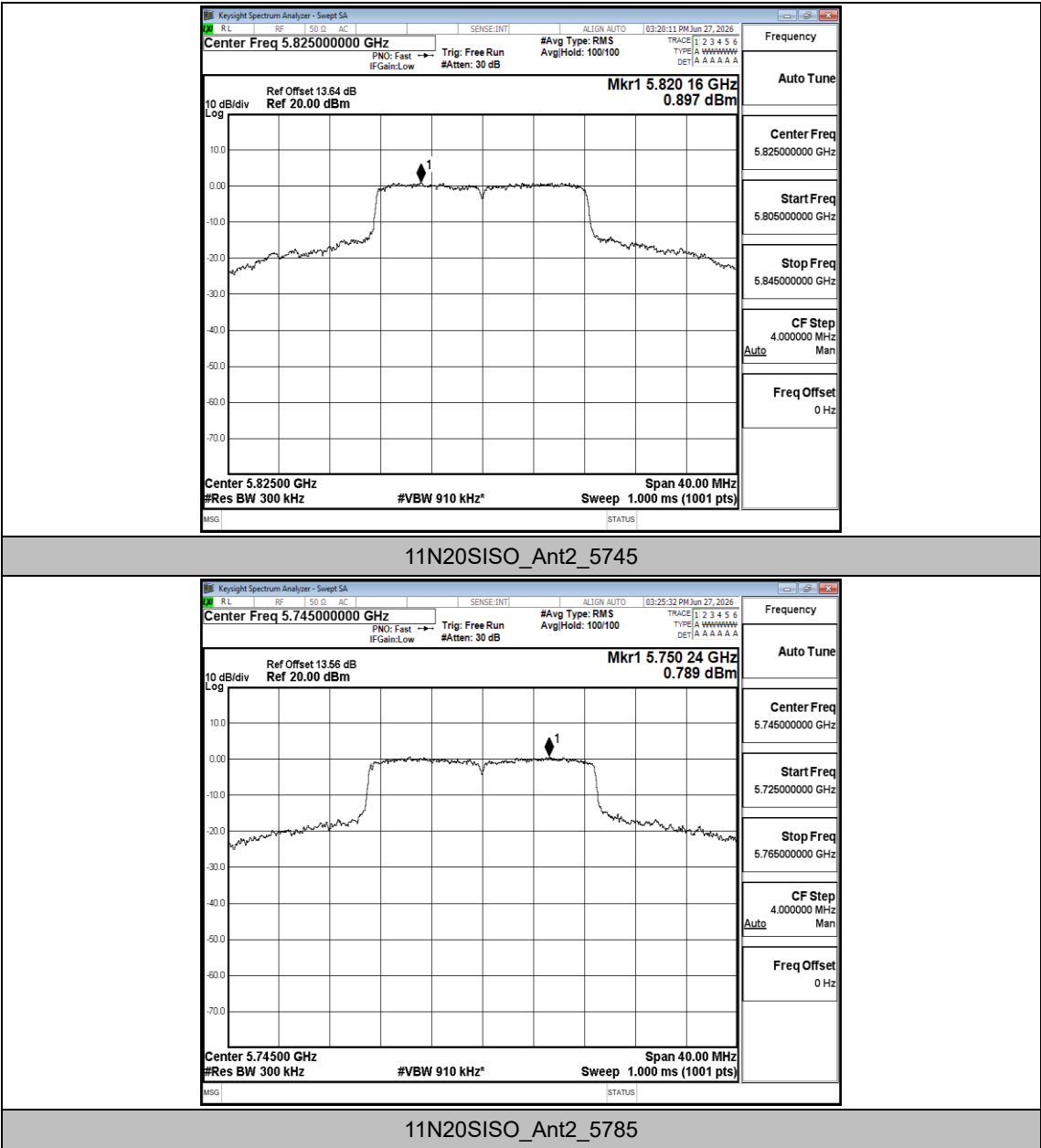
Test Result

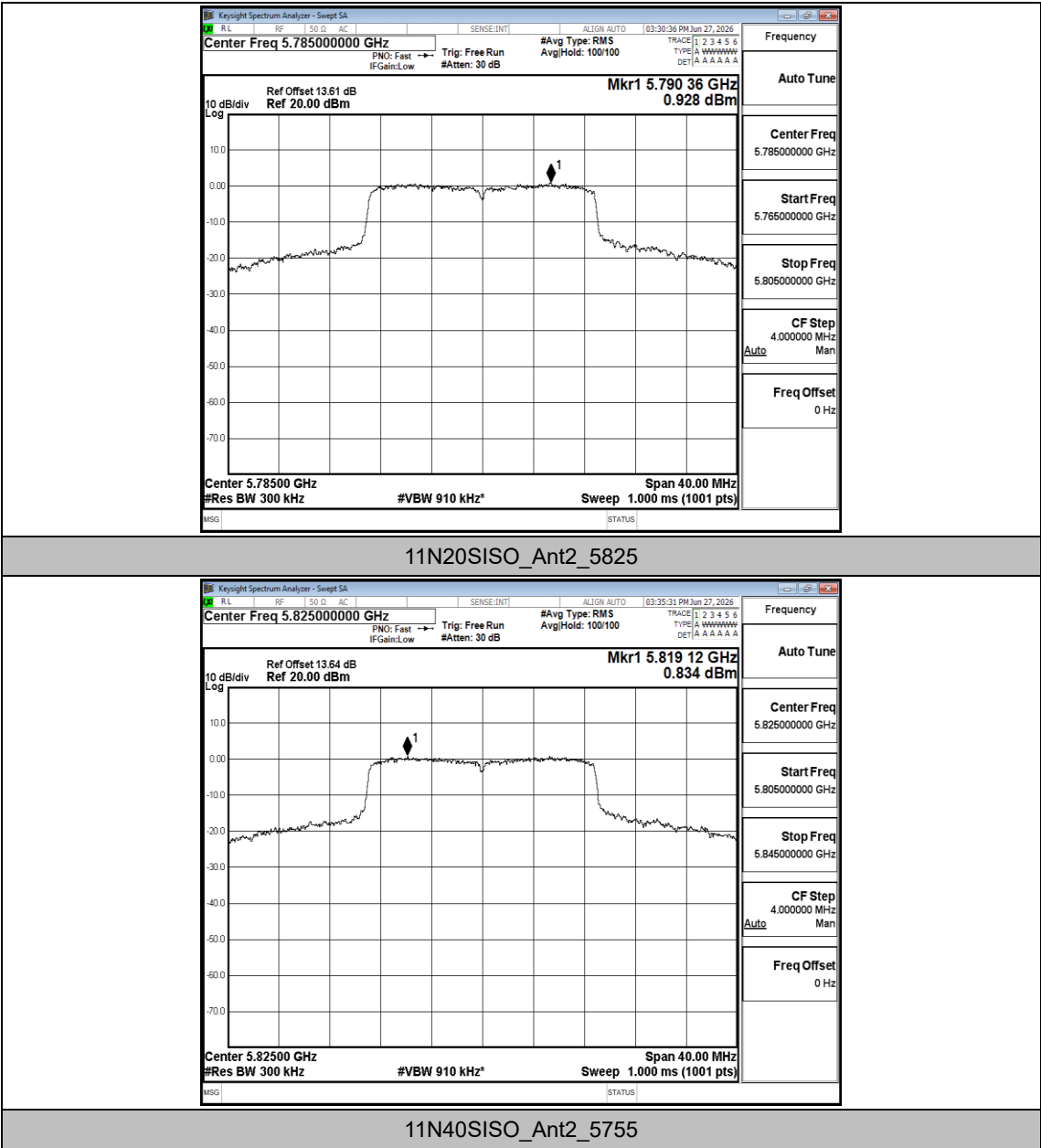
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/500KHz]	DC Factor	RBW Factor	Result [dBm/500KHz]	Limit [dBm/500KHz]	Verdict
11A	Ant2	5745	0.89	0.00	2.22	3.11	≤30.00	PASS
		5785	0.96	0.00	2.22	3.18	≤30.00	PASS
		5825	0.9	0.00	2.22	3.12	≤30.00	PASS
11N20SISO	Ant2	5745	0.79	0.00	2.22	3.01	≤30.00	PASS
		5785	0.93	0.00	2.22	3.15	≤30.00	PASS
		5825	0.83	0.00	2.22	3.05	≤30.00	PASS
11N40SISO	Ant2	5755	-2.48	0.00	2.22	-0.26	≤30.00	PASS
		5795	-2.15	0.00	2.22	0.07	≤30.00	PASS
11AC20SISO	Ant2	5745	0.9	0.00	2.22	3.12	≤30.00	PASS
		5785	0.71	0.00	2.22	2.93	≤30.00	PASS
		5825	0.85	0.00	2.22	3.07	≤30.00	PASS
11AC40SISO	Ant2	5755	-2.29	0.00	2.22	-0.07	≤30.00	PASS
		5795	-2.14	0.00	2.22	0.08	≤30.00	PASS
11AC80SISO	Ant2	5775	-4.57	0.00	2.22	-2.35	≤30.00	PASS

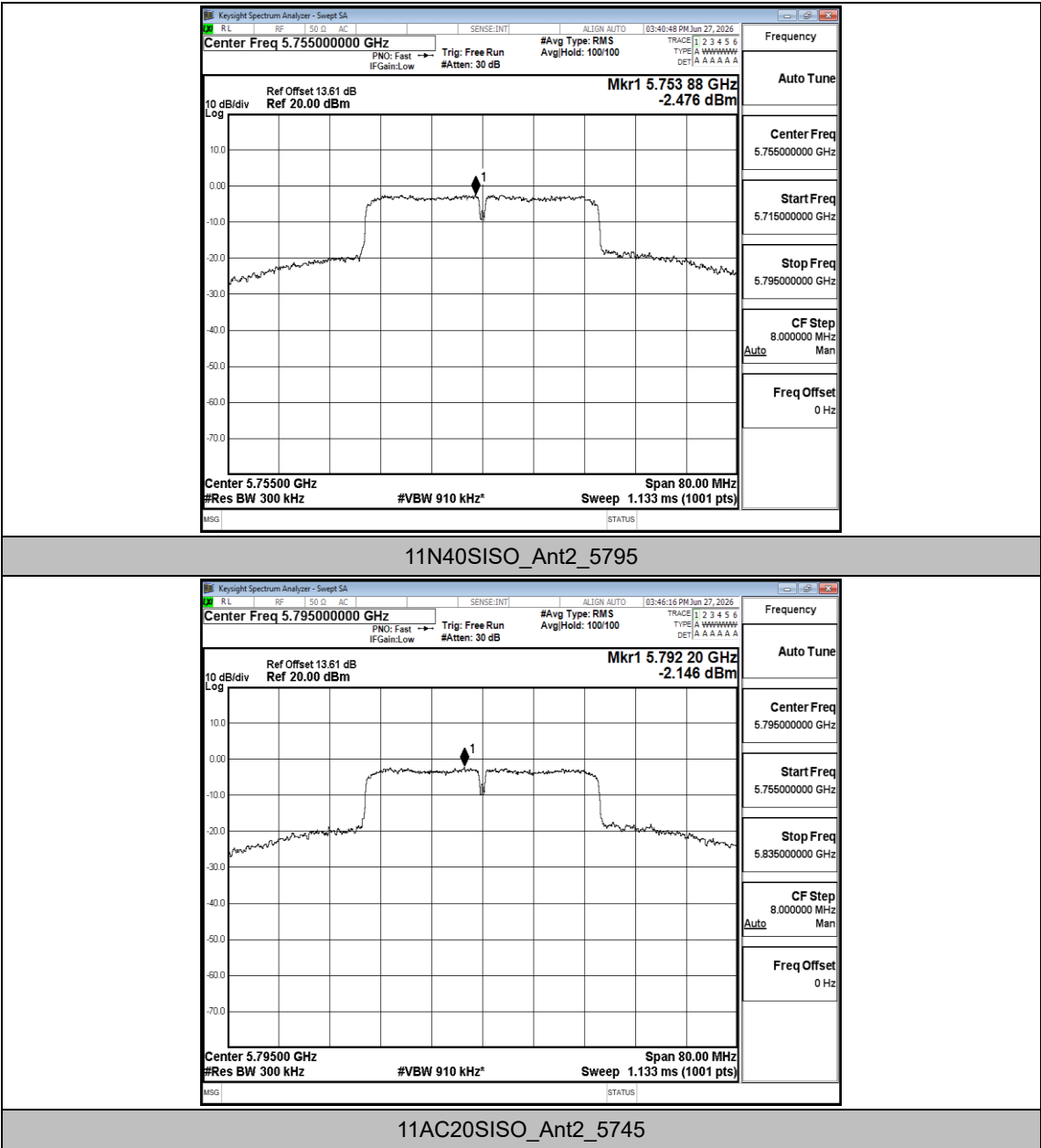
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

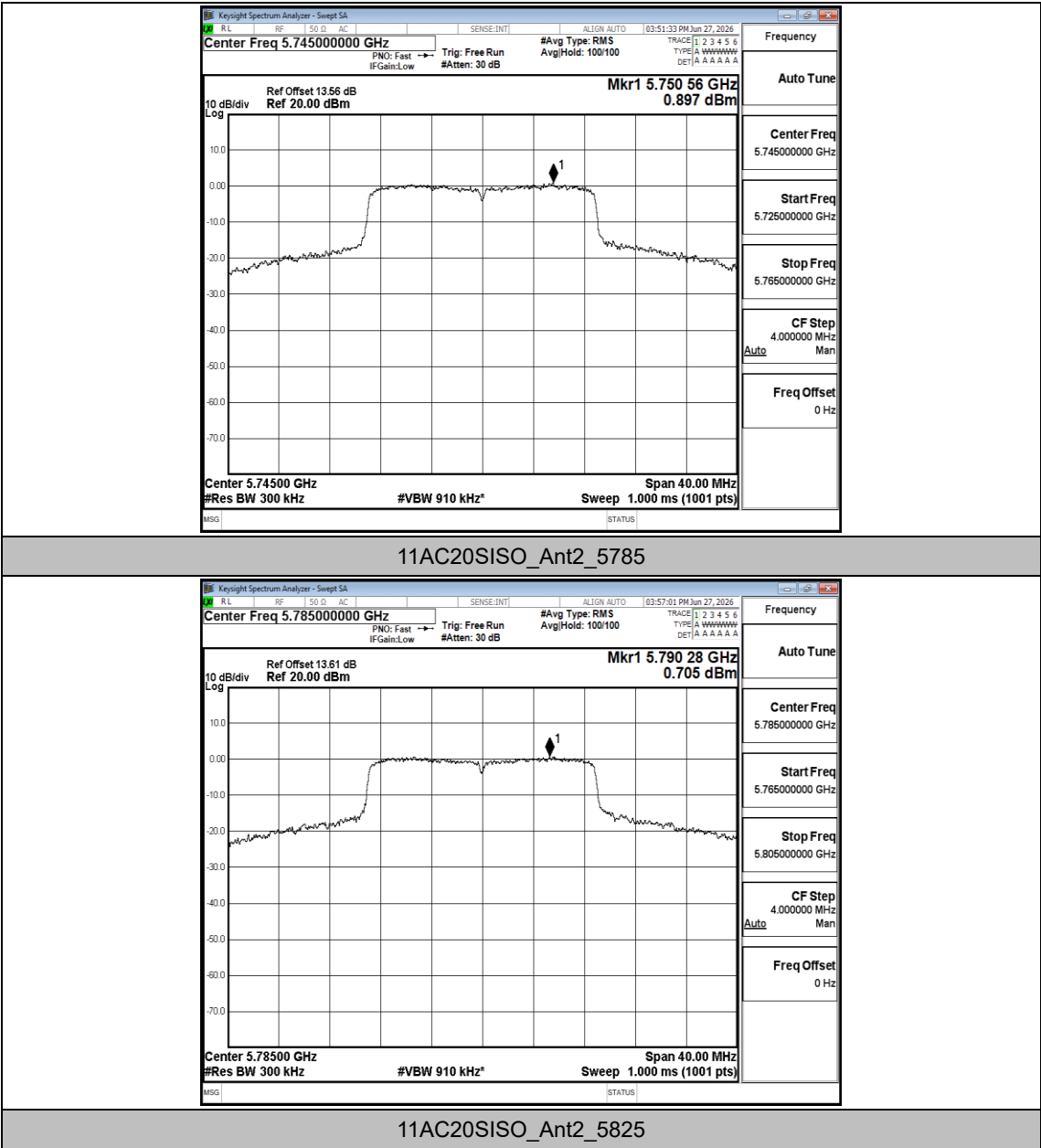
Test Graphs

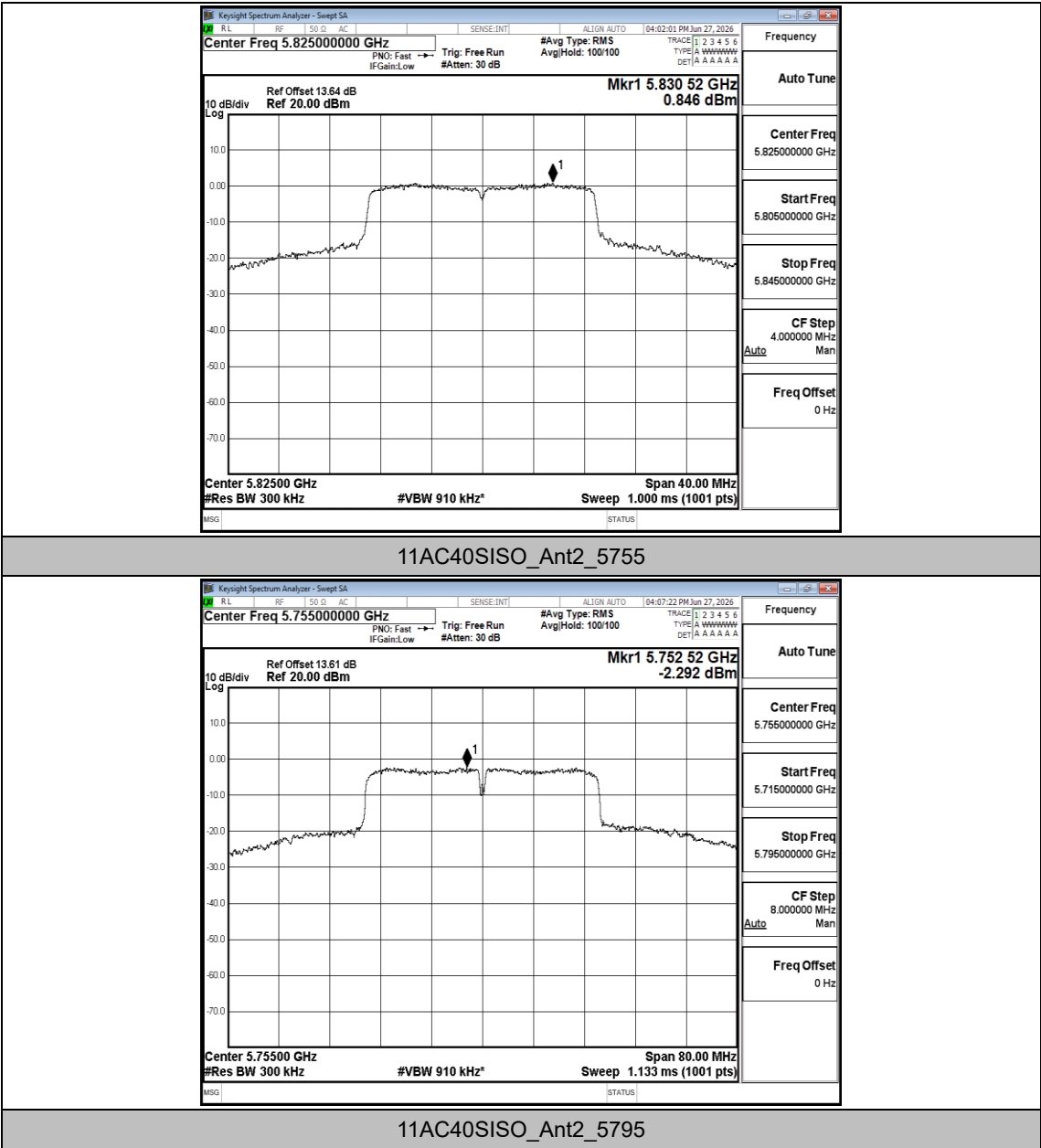


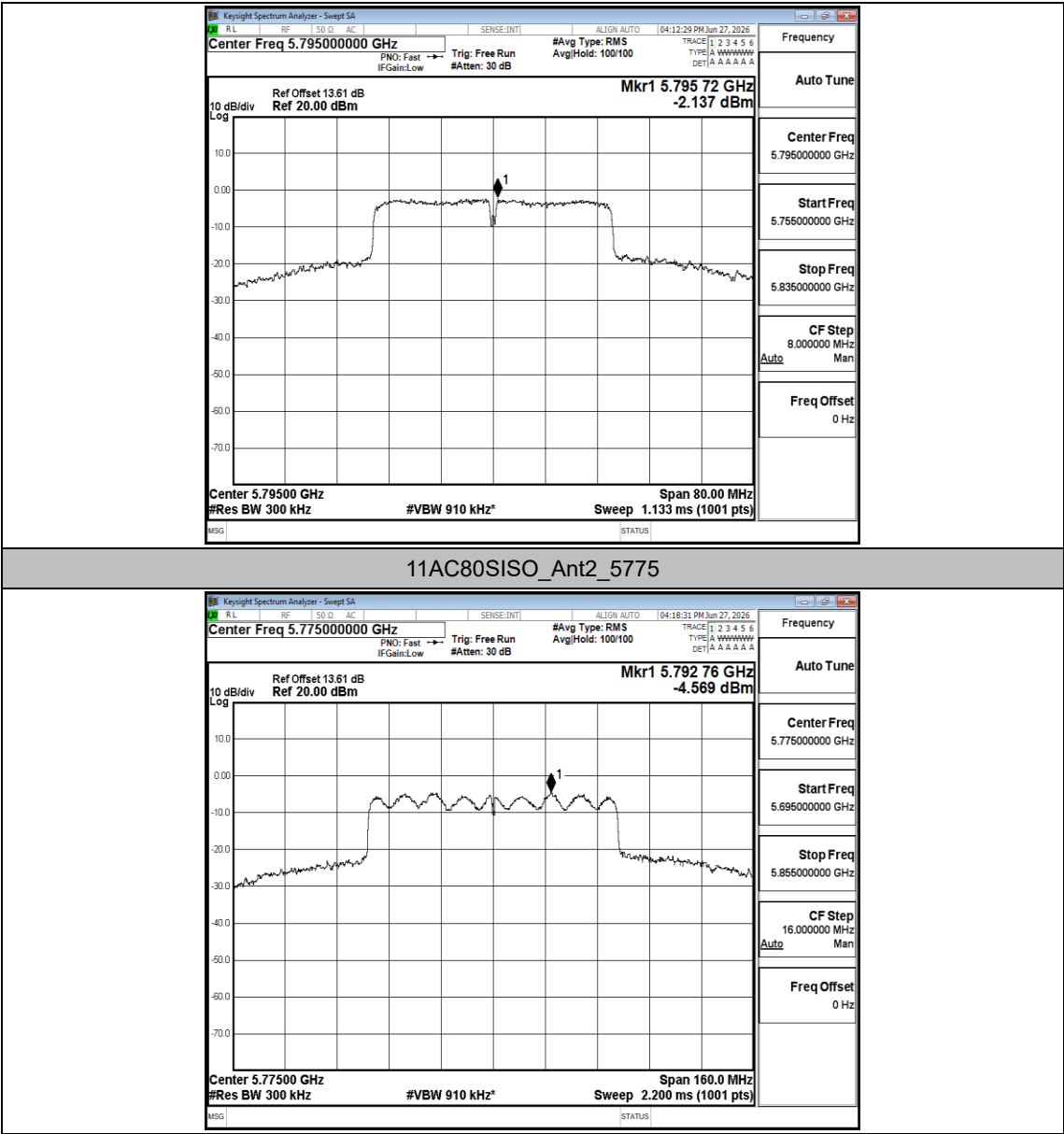












G.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-46.744	≤-29.00	2.67	PASS
				Peak	5700.000	-32.41	≤8.00	2.67	PASS
				Peak	5720.000	-18.9	≤13.60	2.67	PASS
				Peak	5725.000	-10.64	≤25.00	2.67	PASS
		High	5825	Peak	5850.000	-16.555	≤25.00	2.67	PASS
				Peak	5855.000	-19.58	≤13.60	2.67	PASS
				Peak	5875.000	-36.28	≤8.00	2.67	PASS
				Peak	5925.000	-50.91	≤-27.00	2.67	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-47.706	≤-29.00	2.67	PASS
				Peak	5700.000	-32.63	≤8.00	2.67	PASS
				Peak	5720.000	-16.9	≤13.60	2.67	PASS
				Peak	5725.000	-10.62	≤25.00	2.67	PASS
		High	5825	Peak	5850.000	-14.189	≤25.00	2.67	PASS
				Peak	5855.000	-20.39	≤13.60	2.67	PASS
				Peak	5875.000	-41.81	≤8.00	2.67	PASS
				Peak	5925.000	-52.4	≤-27.00	2.67	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-41.03	≤-29.00	2.67	PASS
				Peak	5700.000	-25.04	≤8.00	2.67	PASS
				Peak	5720.000	-15.46	≤13.60	2.67	PASS
				Peak	5725.000	-12.6	≤25.00	2.67	PASS
		High	5795	Peak	5850.000	-23.254	≤25.00	2.67	PASS
				Peak	5855.000	-24.69	≤13.60	2.67	PASS
				Peak	5875.000	-30.98	≤8.00	2.67	PASS
				Peak	5925.000	-48.26	≤-27.00	2.67	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-48.563	≤-29.00	2.67	PASS
				Peak	5700.000	-33.43	≤8.00	2.67	PASS
				Peak	5720.000	-21.96	≤13.60	2.67	PASS
				Peak	5725.000	-9.35	≤25.00	2.67	PASS
		High	5825	Peak	5850.000	-12.793	≤25.00	2.67	PASS
				Peak	5855.000	-20.29	≤13.60	2.67	PASS
				Peak	5875.000	-39.19	≤8.00	2.67	PASS
				Peak	5925.000	-49.98	≤-27.00	2.67	PASS
11AC40SISO	Ant1	Low	5755	Peak	5650.000	-39.55	≤-29.00	2.67	PASS
				Peak	5700.000	-24.73	≤8.00	2.67	PASS
				Peak	5720.000	-12.18	≤13.60	2.67	PASS

		High	5795	Peak	5725.000	-8.59	≤25.00	2.67	PASS
				Peak	5850.000	-17.577	≤25.00	2.67	PASS
				Peak	5855.000	-21.79	≤13.60	2.67	PASS
				Peak	5875.000	-28.8	≤8.00	2.67	PASS
				Peak	5925.000	-46.56	≤-27.00	2.67	PASS
11AC80SISO	Ant1	Low	5775	Peak	5650.000	-52.278	≤-29.00	2.67	PASS
				Peak	5700.000	-52.08	≤8.00	2.67	PASS
				Peak	5720.000	-51.43	≤13.60	2.67	PASS
				Peak	5725.000	-54.02	≤25.00	2.67	PASS
		High	5775	Peak	5850.000	-52.974	≤25.00	2.67	PASS
				Peak	5855.000	-51.14	≤13.60	2.67	PASS
				Peak	5875.000	-51.6	≤8.00	2.67	PASS
				Peak	5925.000	-53.08	≤-27.00	2.67	PASS

Note:

1. The Antenna Gain is compensated in the graph.

Test Graphs

