

Appendix E

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: VEXnet SERVER

Test Model: 210-8909-000

Environmental Conditions

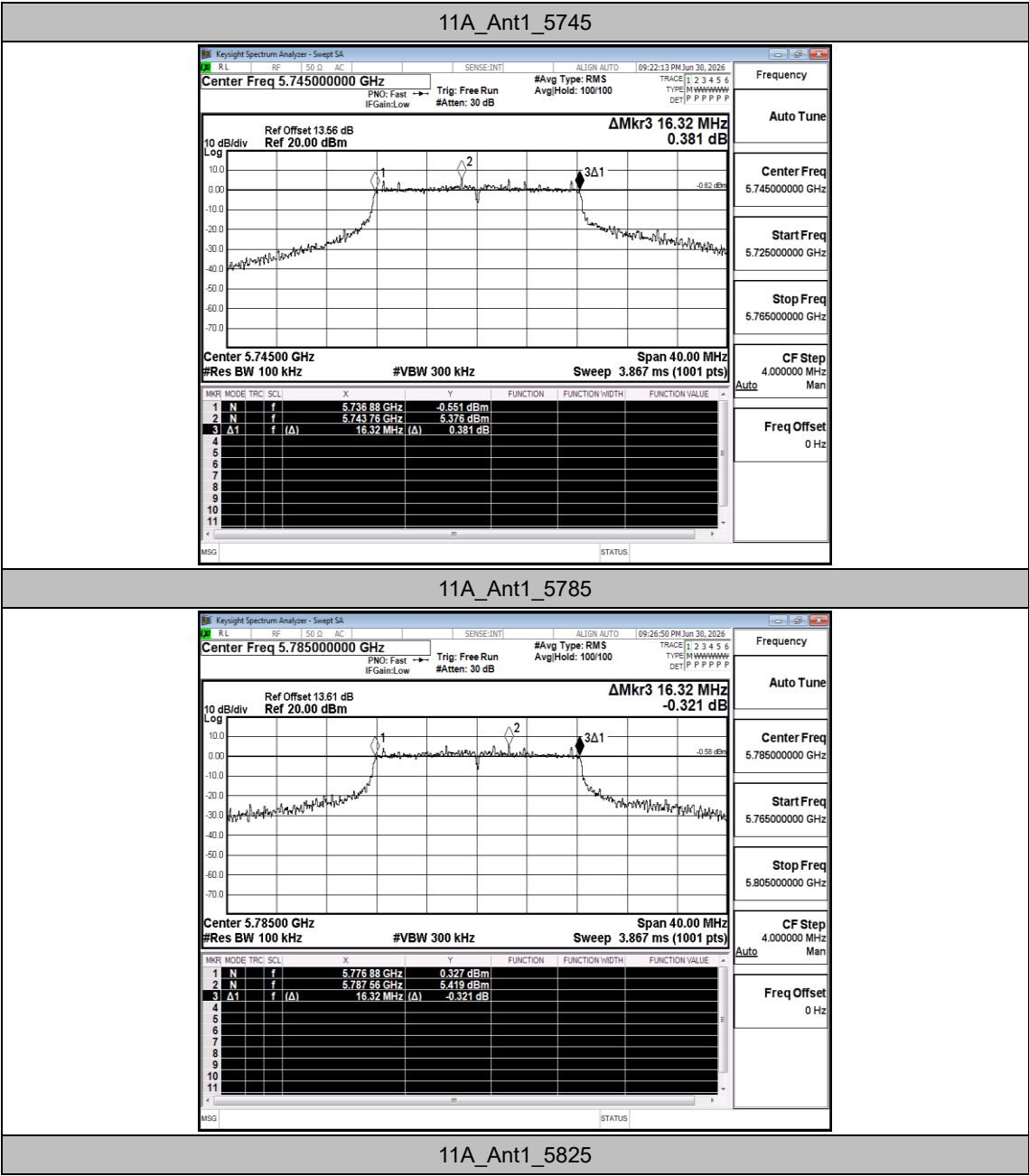
Temperature:	24.5°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	FengLiu Tang

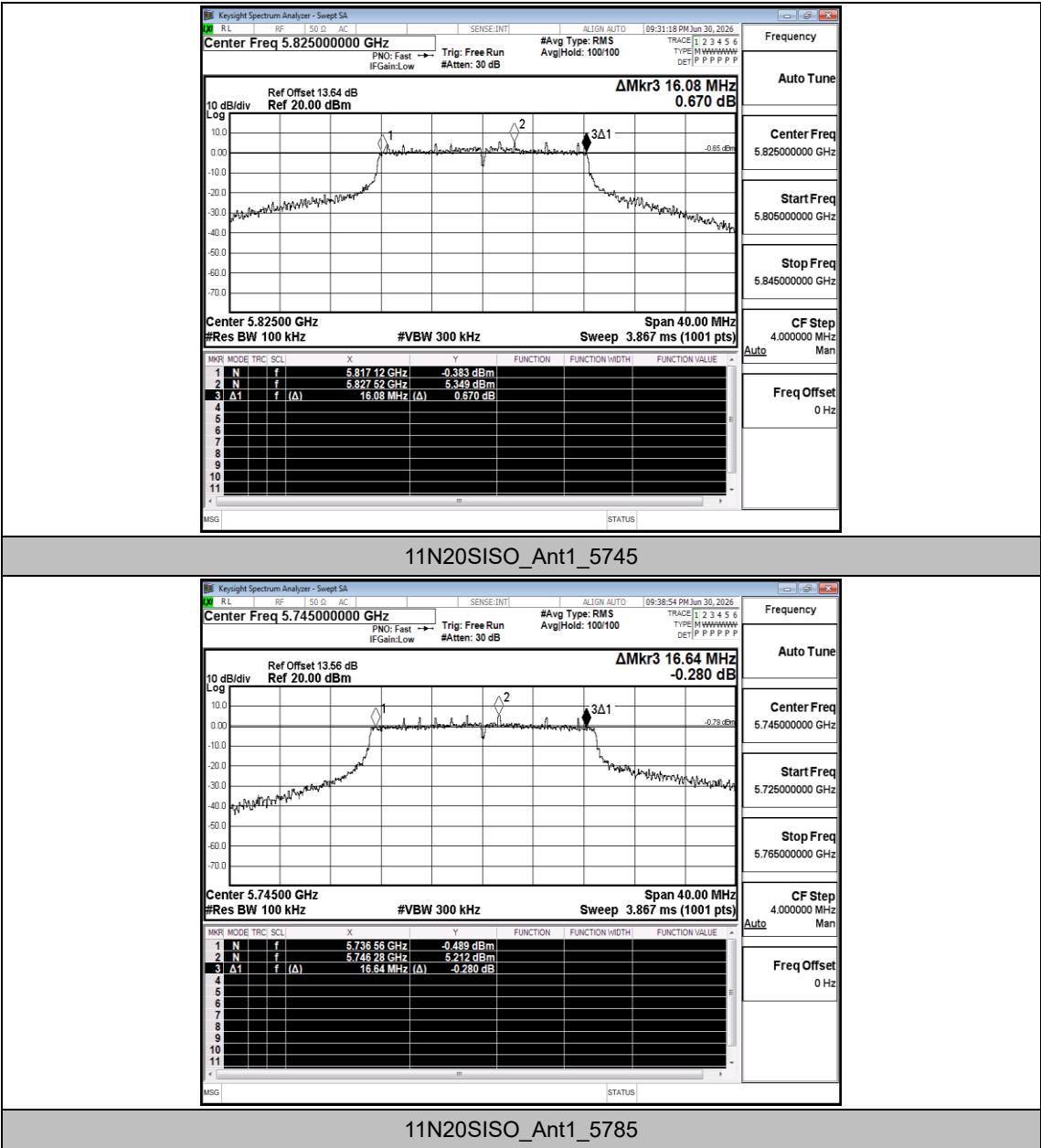
E.1 Min emission bandwidth

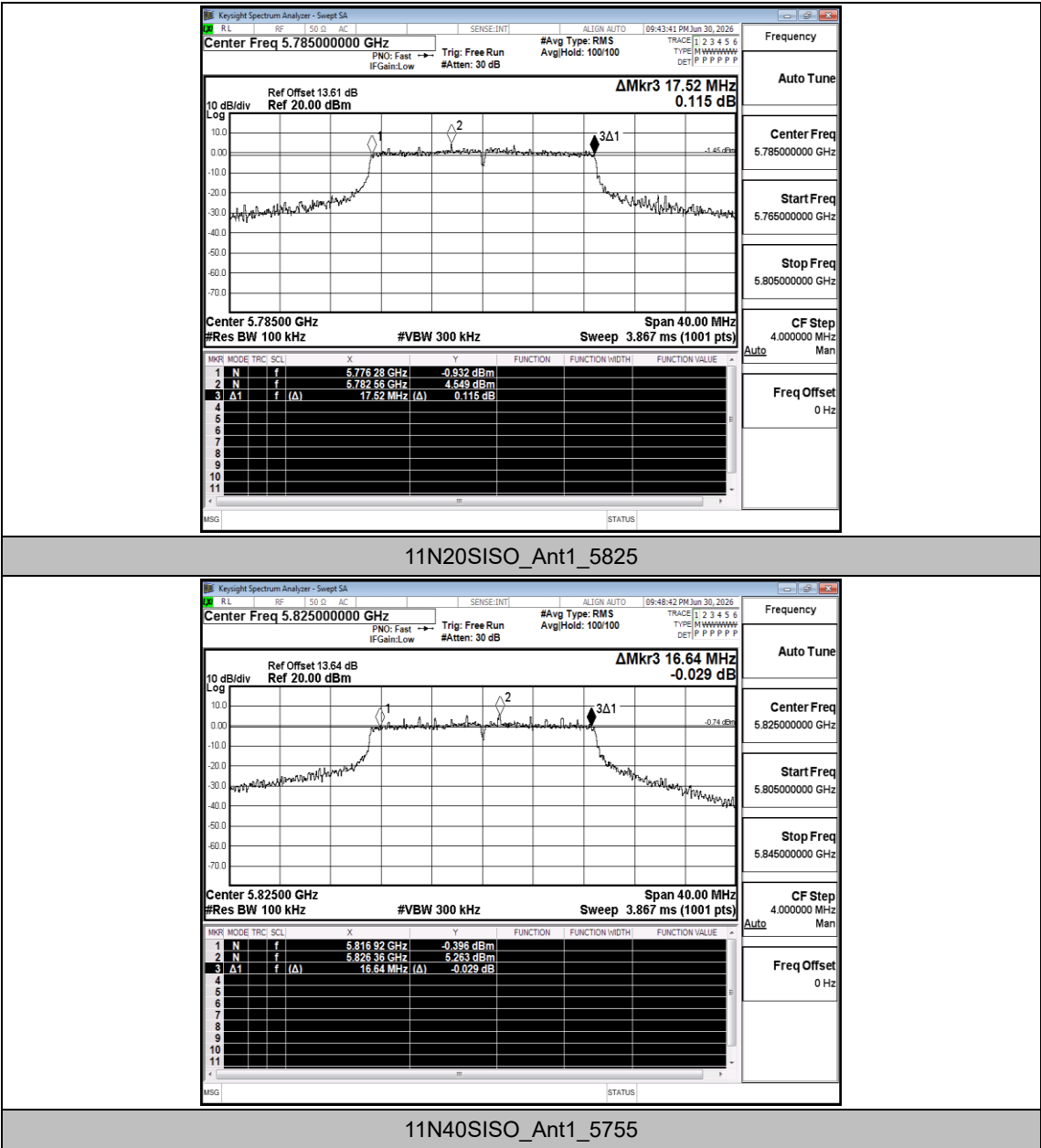
Test Result

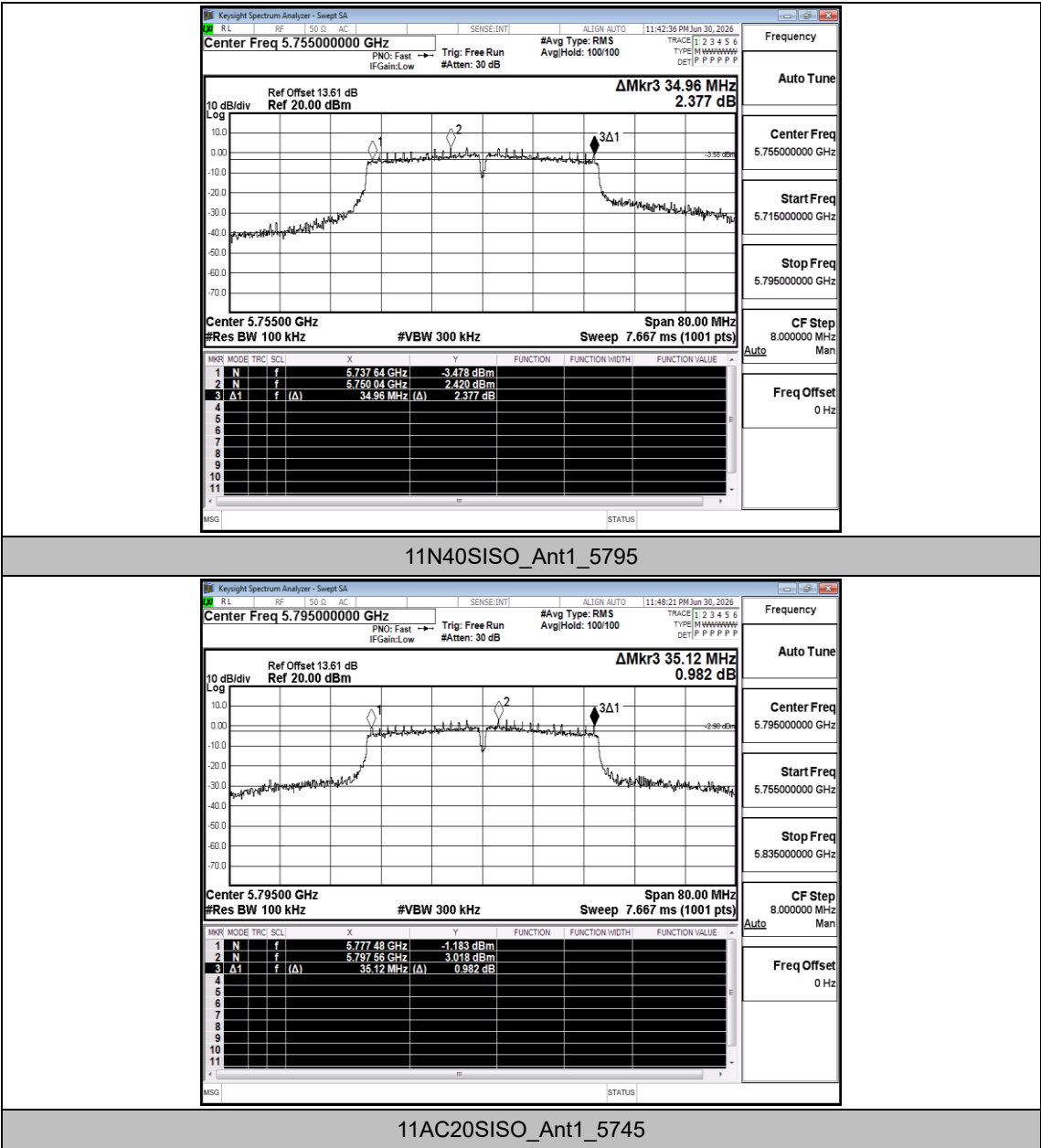
TestMode	Antenna	Freq (MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	16.320	5736.880	5753.200	0.5	PASS
		5785	16.320	5776.880	5793.200	0.5	PASS
		5825	16.080	5817.120	5833.200	0.5	PASS
11N20SISO	Ant1	5745	16.640	5736.560	5753.200	0.5	PASS
		5785	17.520	5776.280	5793.800	0.5	PASS
		5825	16.640	5816.920	5833.560	0.5	PASS
11N40SISO	Ant1	5755	34.960	5737.640	5772.600	0.5	PASS
		5795	35.120	5777.480	5812.600	0.5	PASS
11AC20SISO	Ant1	5745	16.840	5736.560	5753.400	0.5	PASS
		5785	17.280	5776.280	5793.560	0.5	PASS
		5825	16.640	5816.920	5833.560	0.5	PASS
11AC40SISO	Ant1	5755	35.040	5737.560	5772.600	0.5	PASS
		5795	35.040	5777.560	5812.600	0.5	PASS
11AC80SISO	Ant1	5775	75.040	5737.560	5812.600	0.5	PASS
11AX20SISO	Ant1	5745	17.960	5736.040	5754.000	0.5	PASS
		5785	18.680	5775.680	5794.360	0.5	PASS
		5825	18.560	5815.760	5834.320	0.5	PASS
11AX40SISO	Ant1	5755	36.080	5736.520	5772.600	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AX80SISO	Ant1	5775	75.040	5737.560	5812.600	0.5	PASS

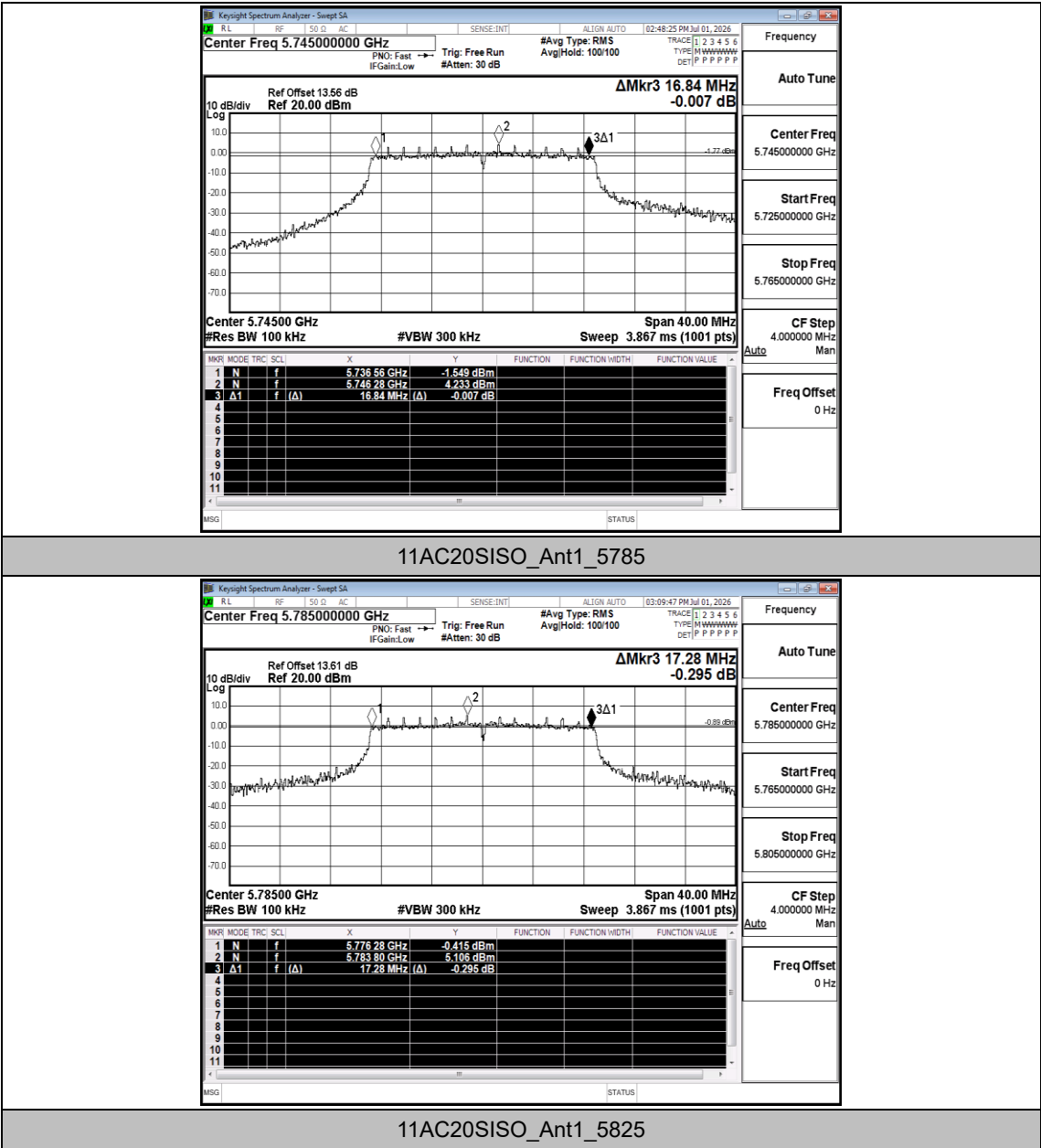
Test Graphs B4

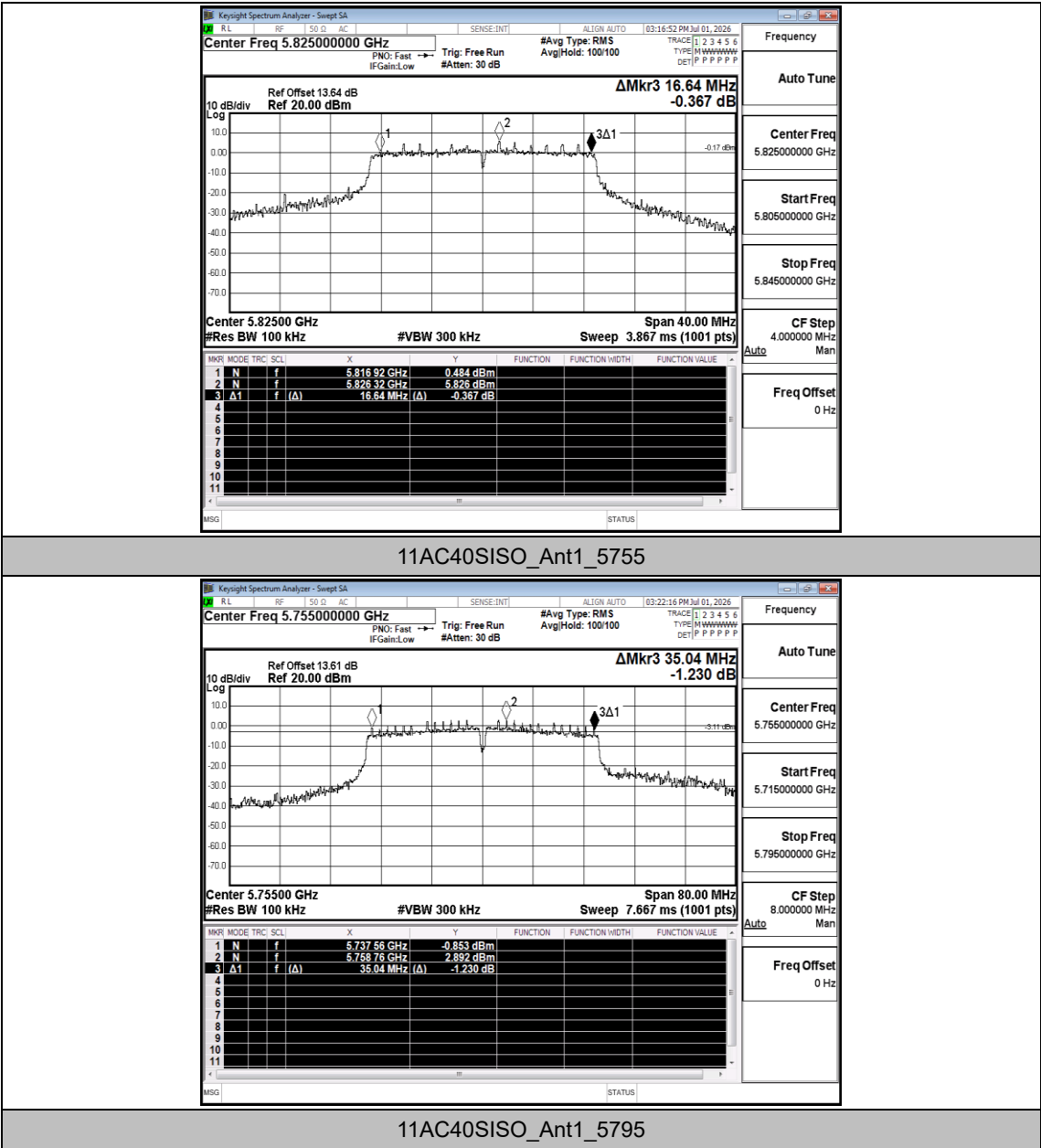


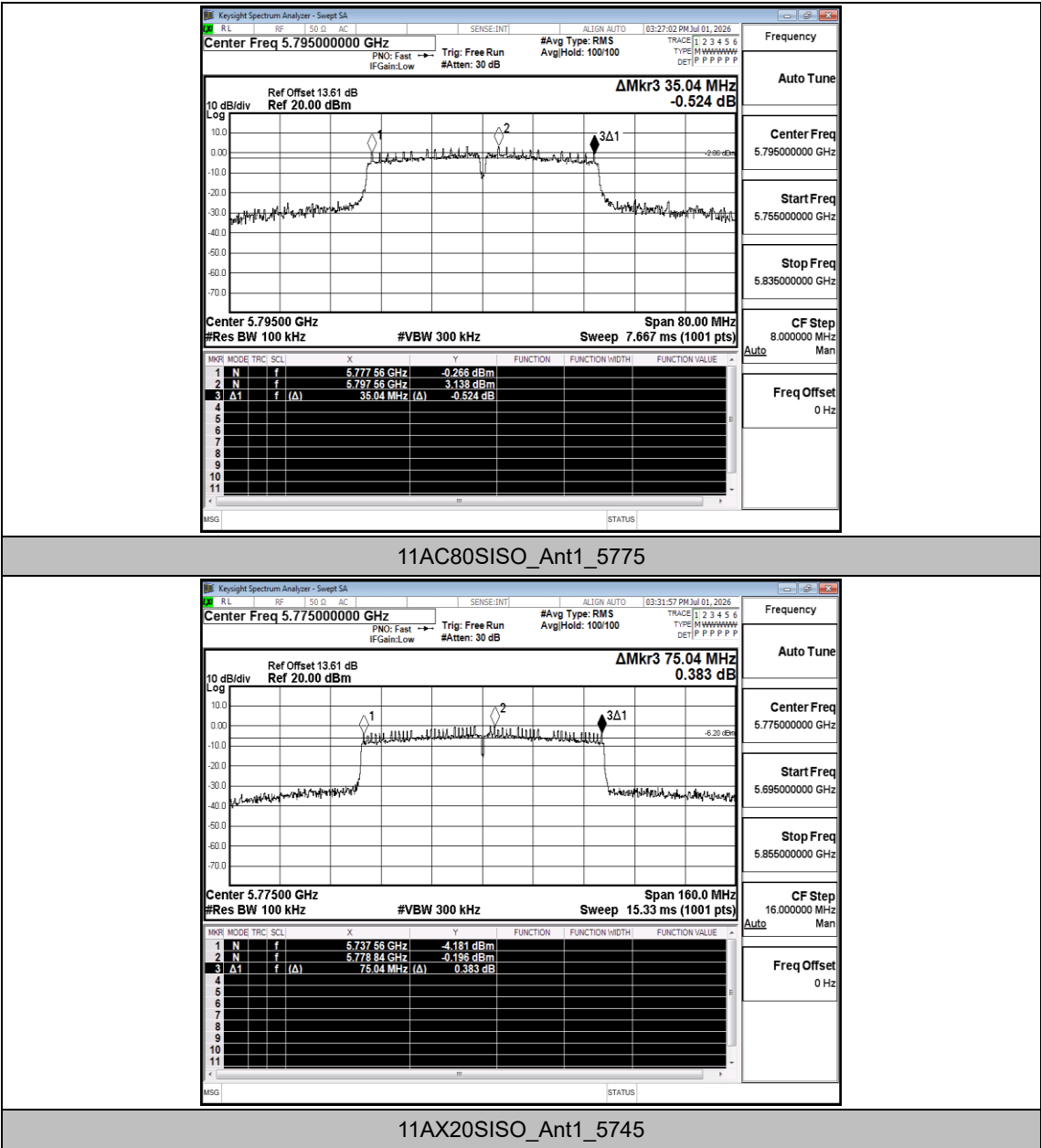


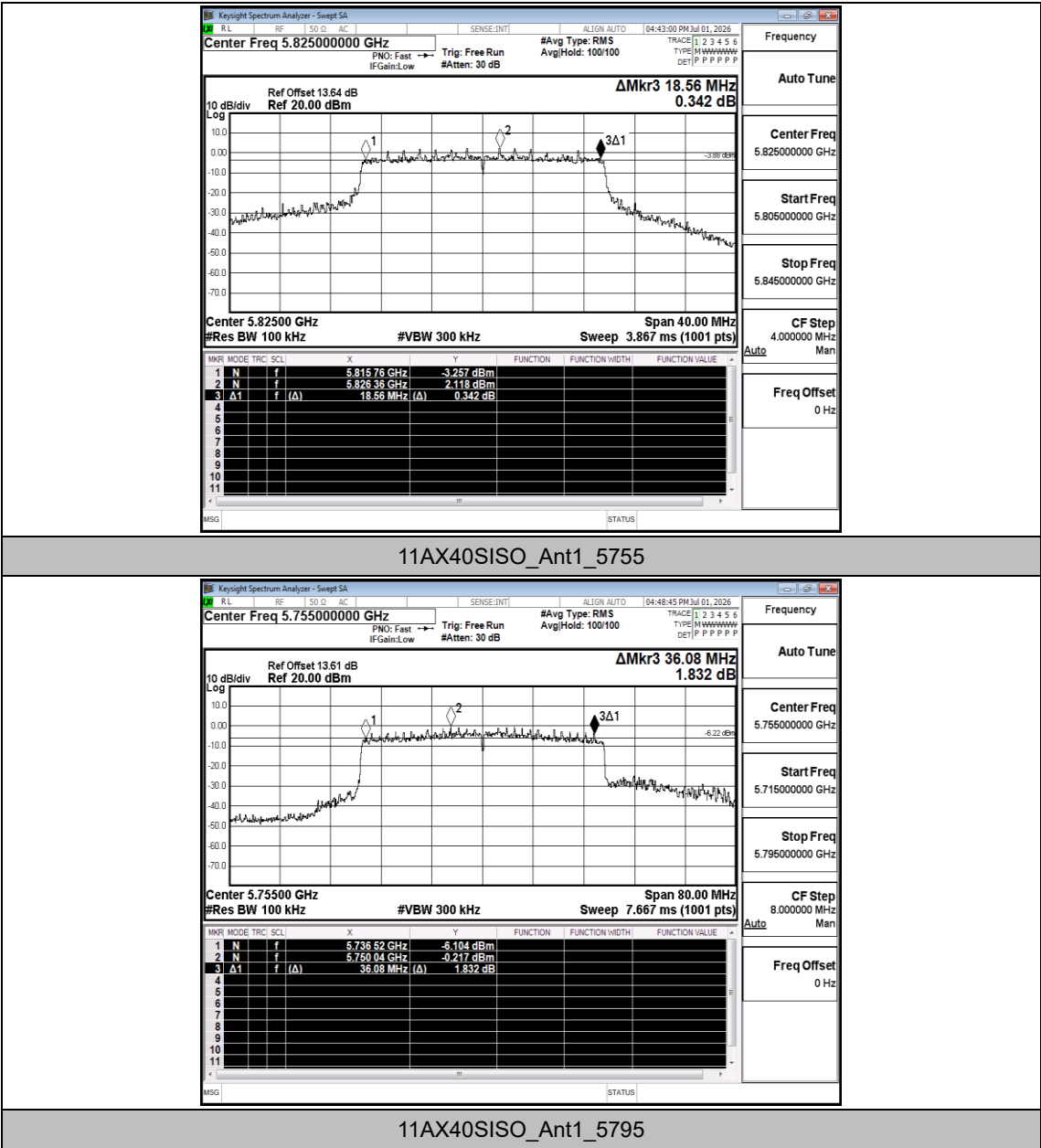


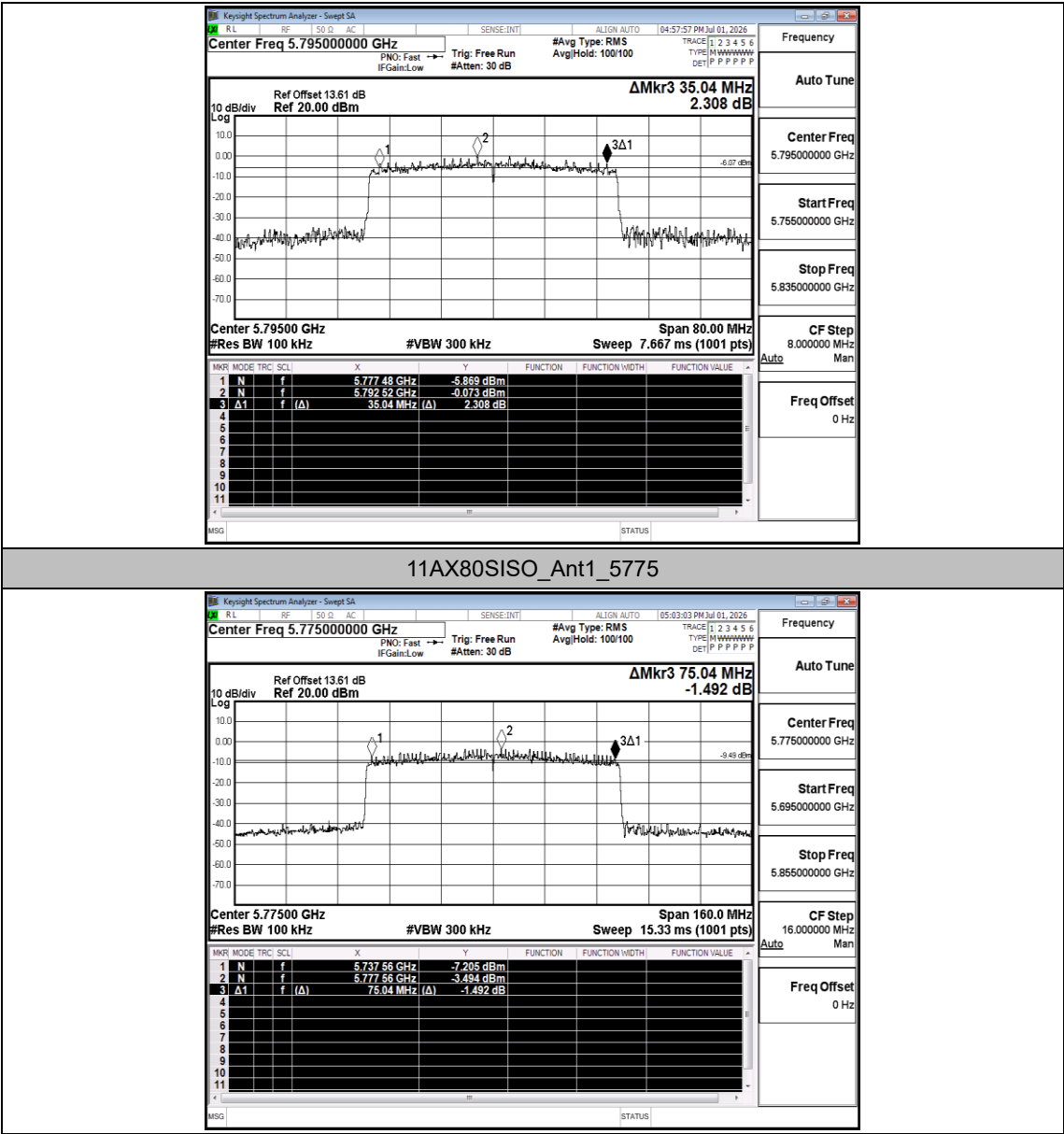








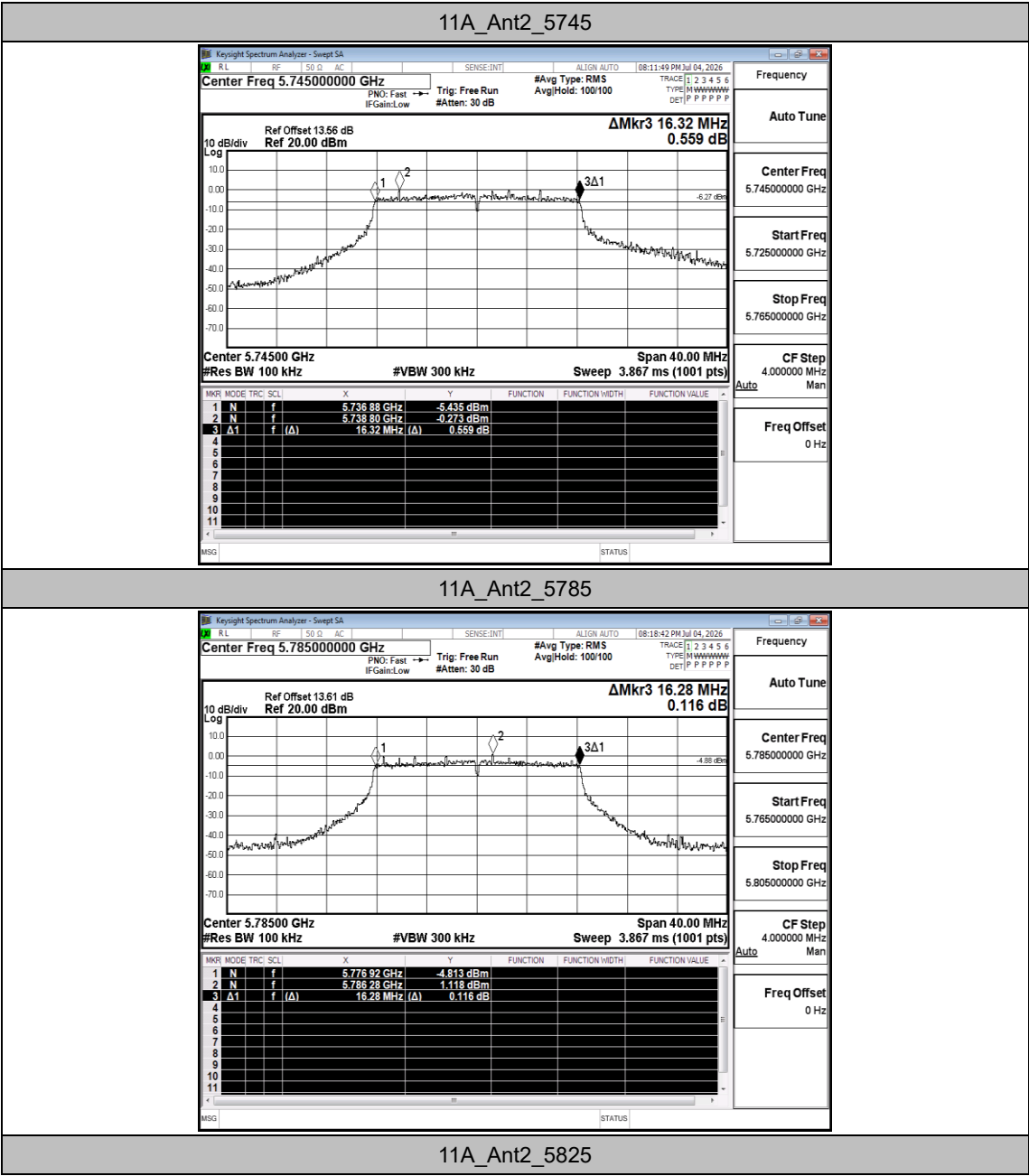


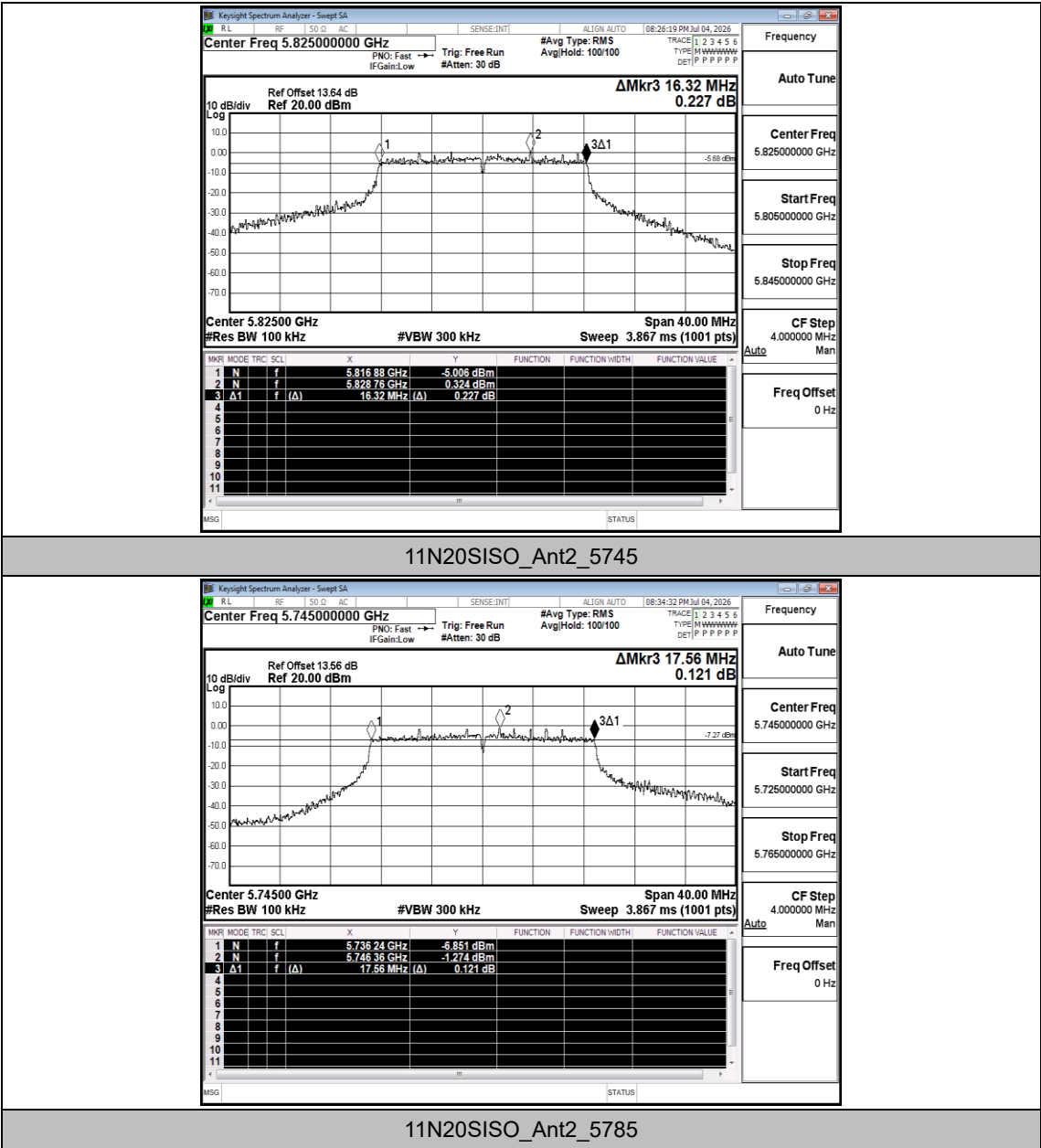


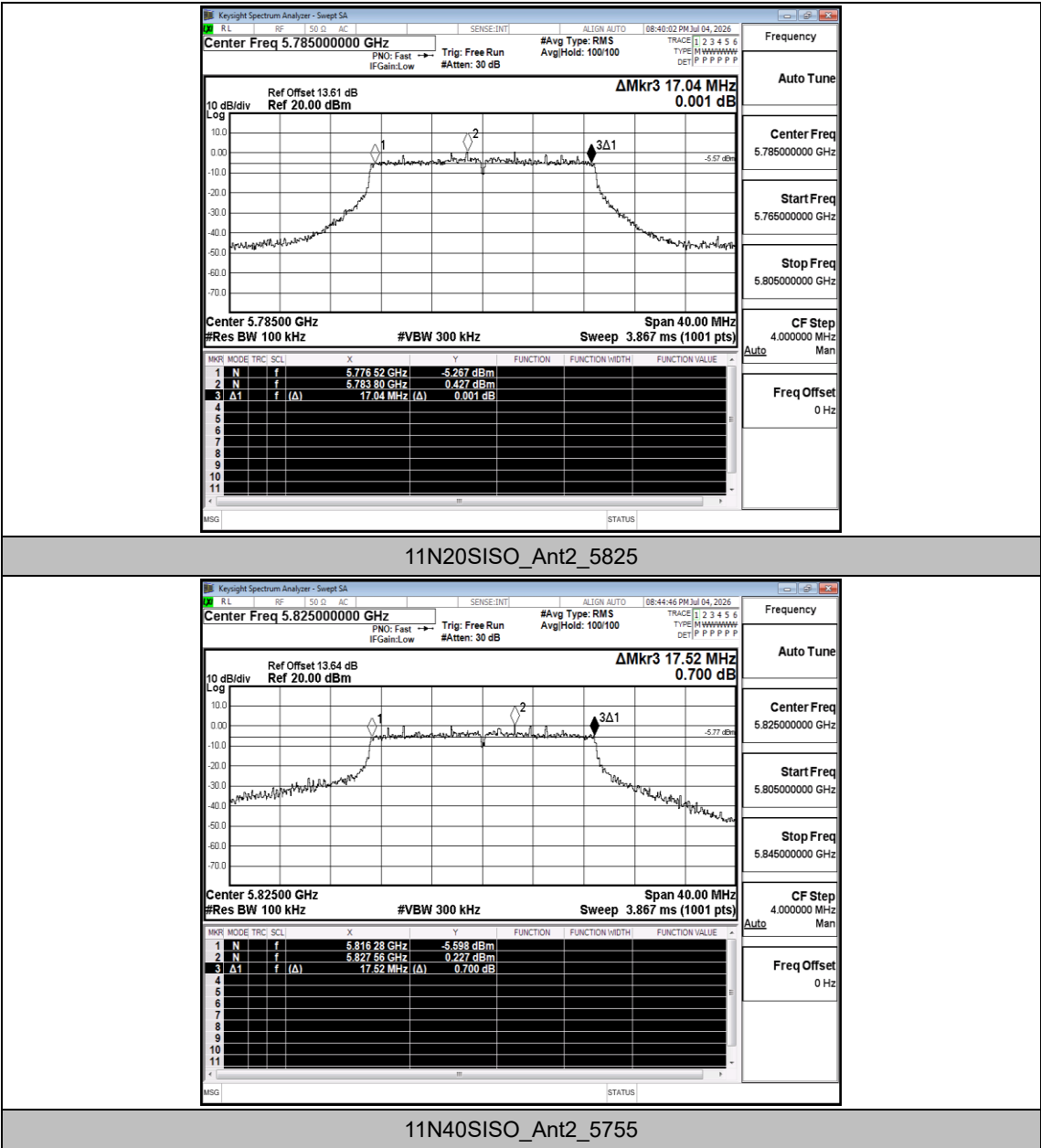
Test Result

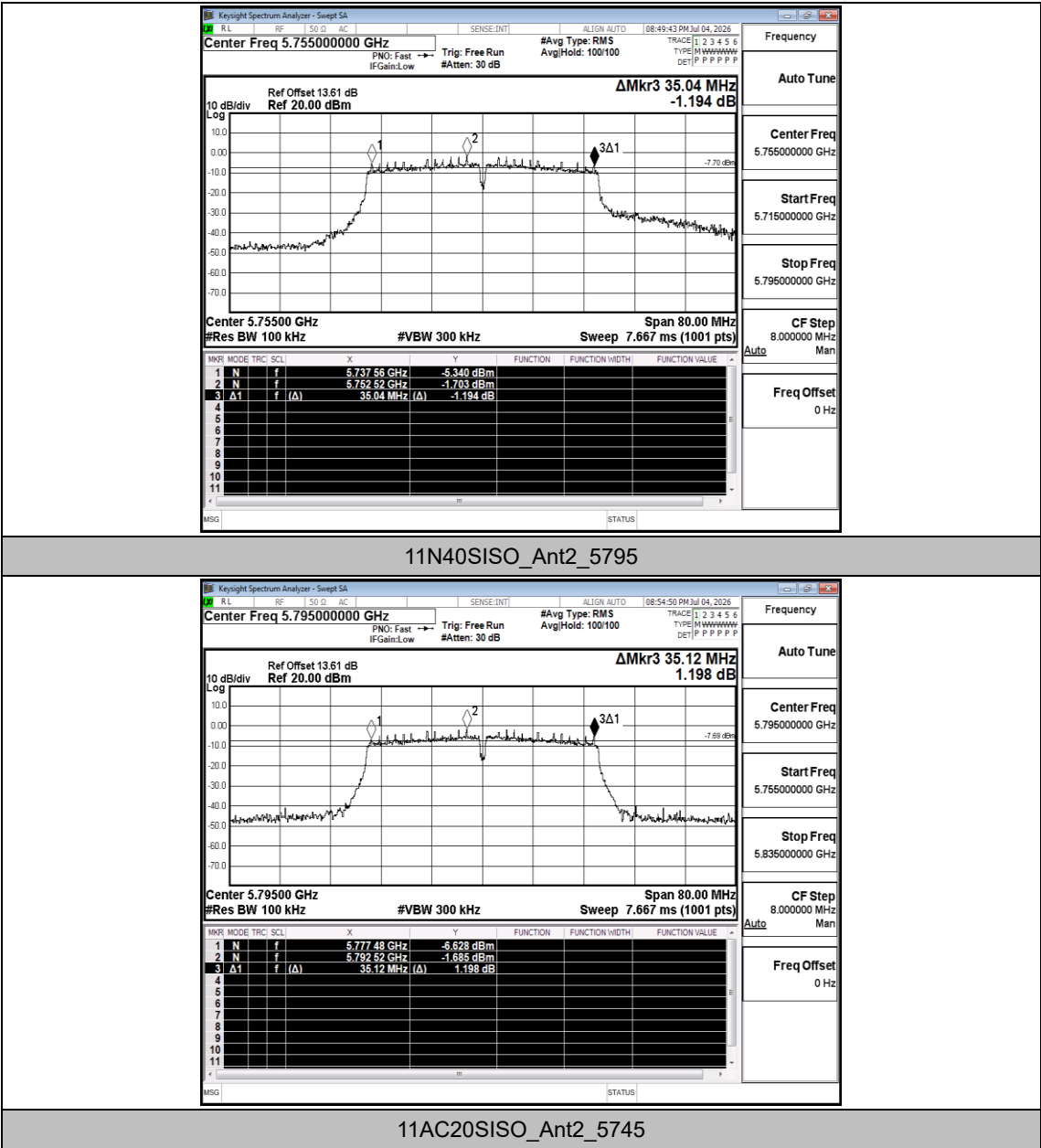
TestMode	Antenna	Freq (MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant2	5745	16.320	5736.880	5753.200	0.5	PASS
		5785	16.280	5776.920	5793.200	0.5	PASS
		5825	16.320	5816.880	5833.200	0.5	PASS
11N20SISO	Ant2	5745	17.560	5736.240	5753.800	0.5	PASS
		5785	17.040	5776.520	5793.560	0.5	PASS
		5825	17.520	5816.280	5833.800	0.5	PASS
11N40SISO	Ant2	5755	35.040	5737.560	5772.600	0.5	PASS
		5795	35.120	5777.480	5812.600	0.5	PASS
11AC20SISO	Ant2	5745	17.600	5736.200	5753.800	0.5	PASS
		5785	17.640	5776.200	5793.840	0.5	PASS
		5825	17.680	5816.200	5833.880	0.5	PASS
11AC40SISO	Ant2	5755	36.400	5736.840	5773.240	0.5	PASS
		5795	36.400	5776.840	5813.240	0.5	PASS
11AC80SISO	Ant2	5775	76.320	5736.920	5813.240	0.5	PASS
11AX20SISO	Ant2	5745	18.720	5735.680	5754.400	0.5	PASS
		5785	18.560	5775.760	5794.320	0.5	PASS
		5825	18.400	5816.000	5834.400	0.5	PASS
11AX40SISO	Ant2	5755	36.400	5737.480	5773.880	0.5	PASS
		5795	35.040	5777.560	5812.600	0.5	PASS
11AX80SISO	Ant2	5775	75.040	5737.560	5812.600	0.5	PASS

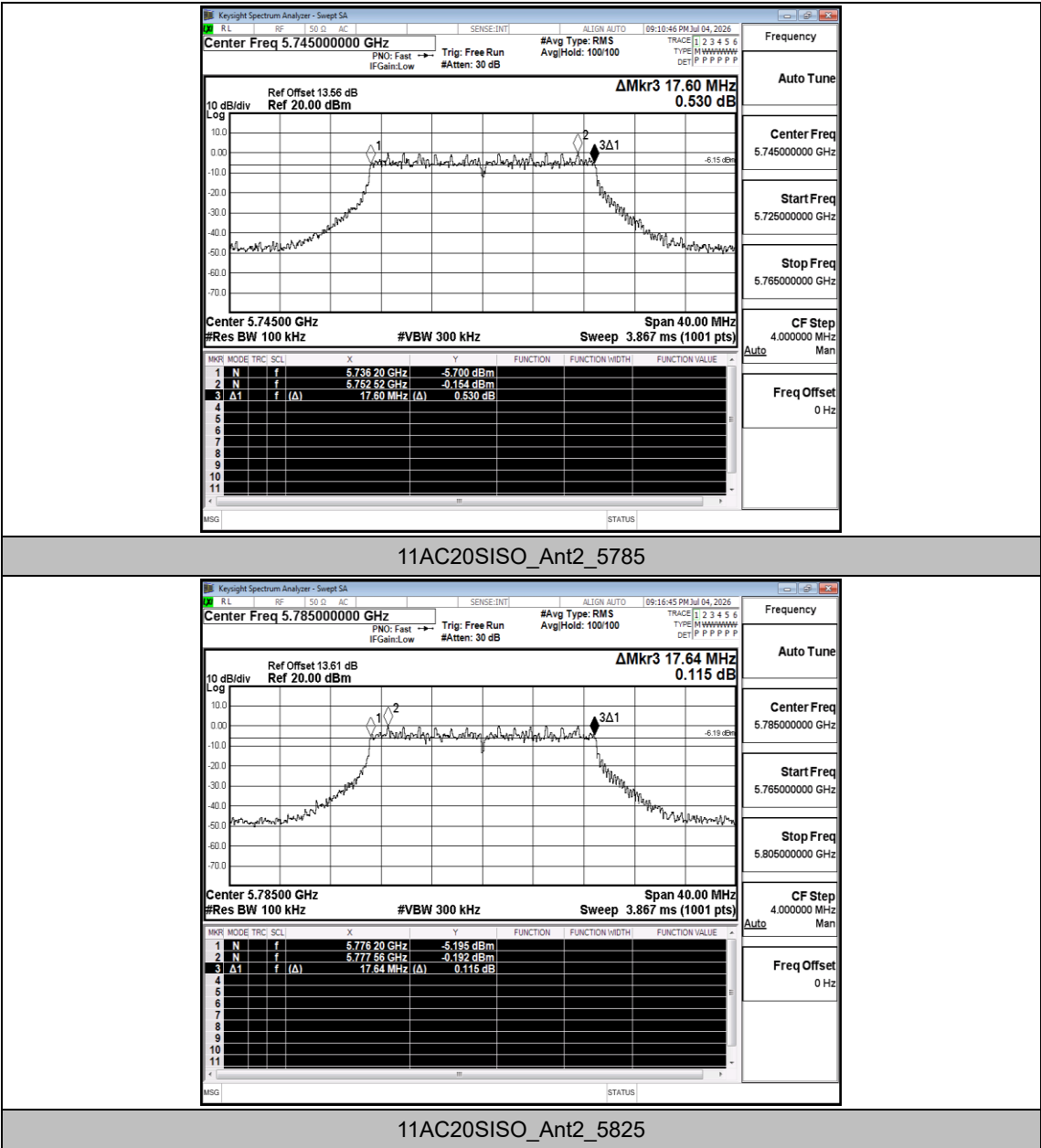
Test Graphs

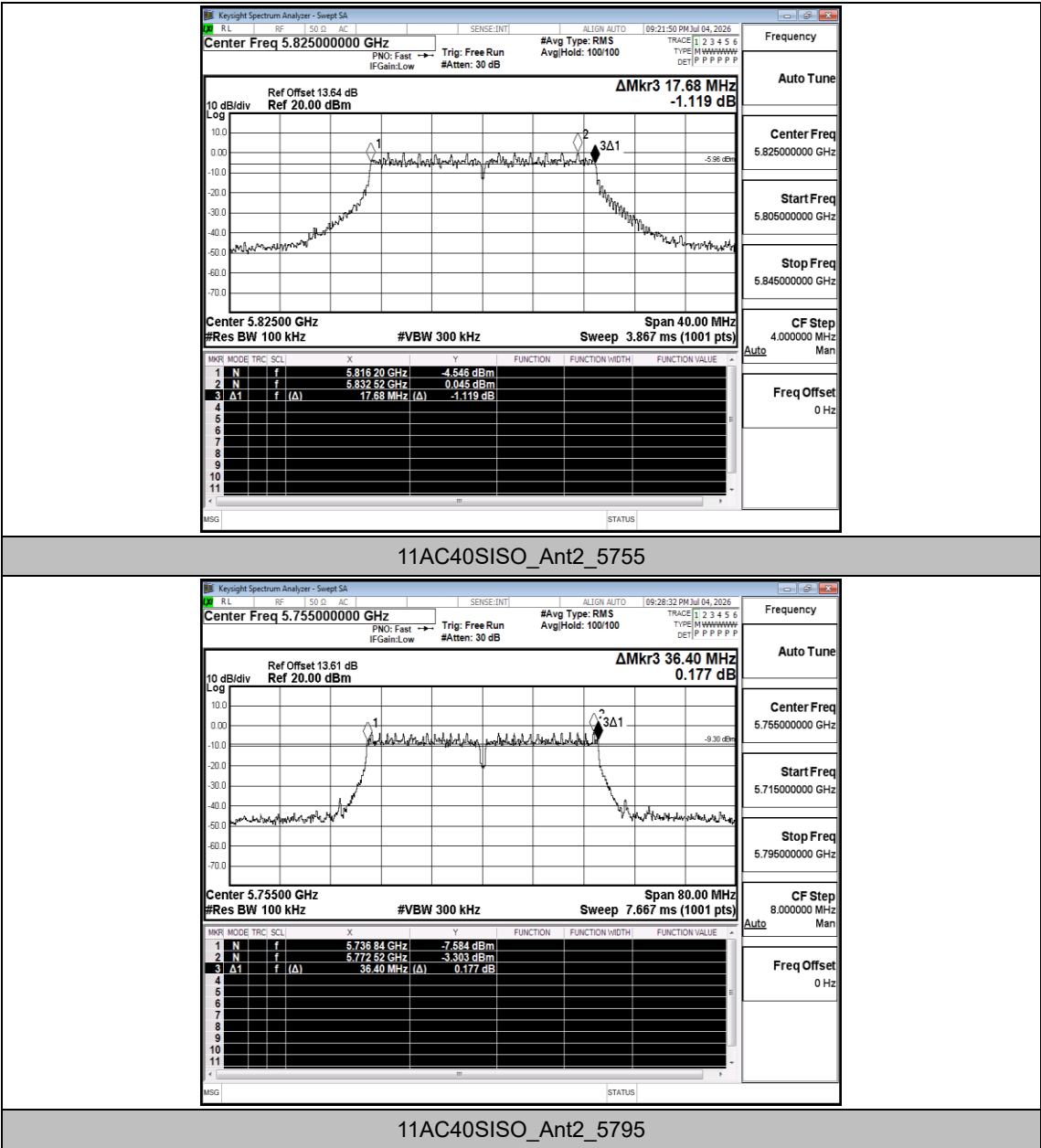


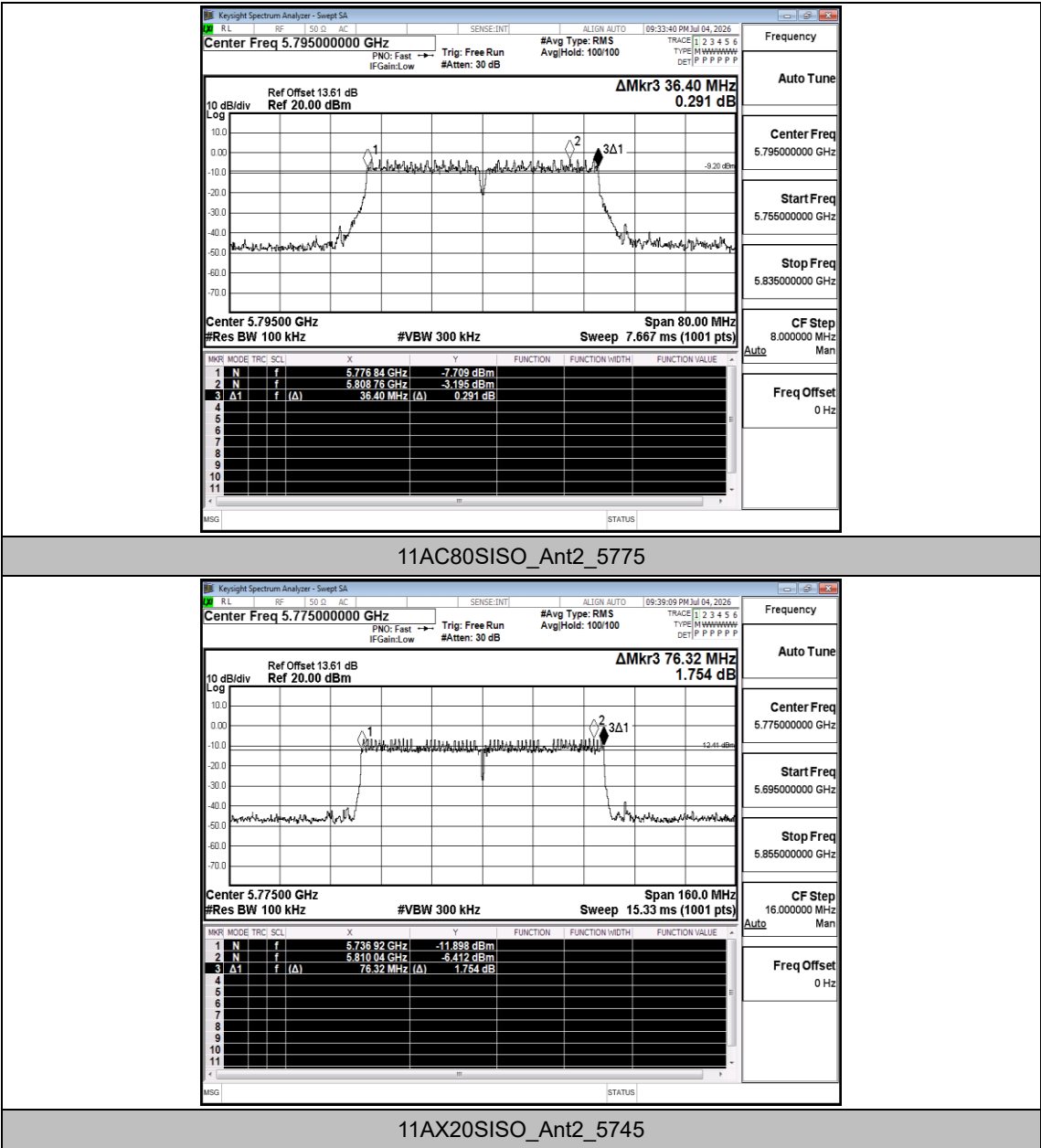


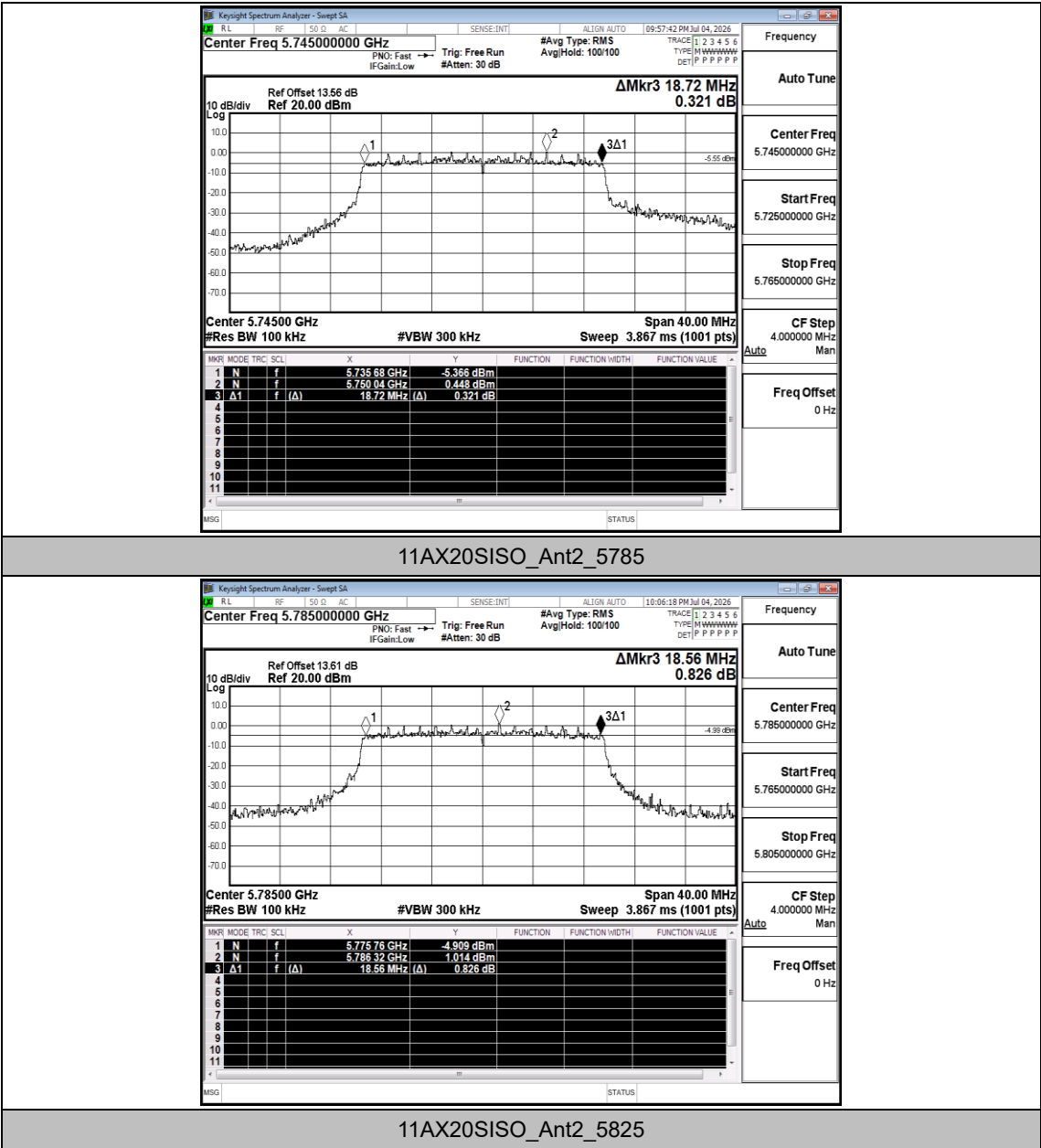


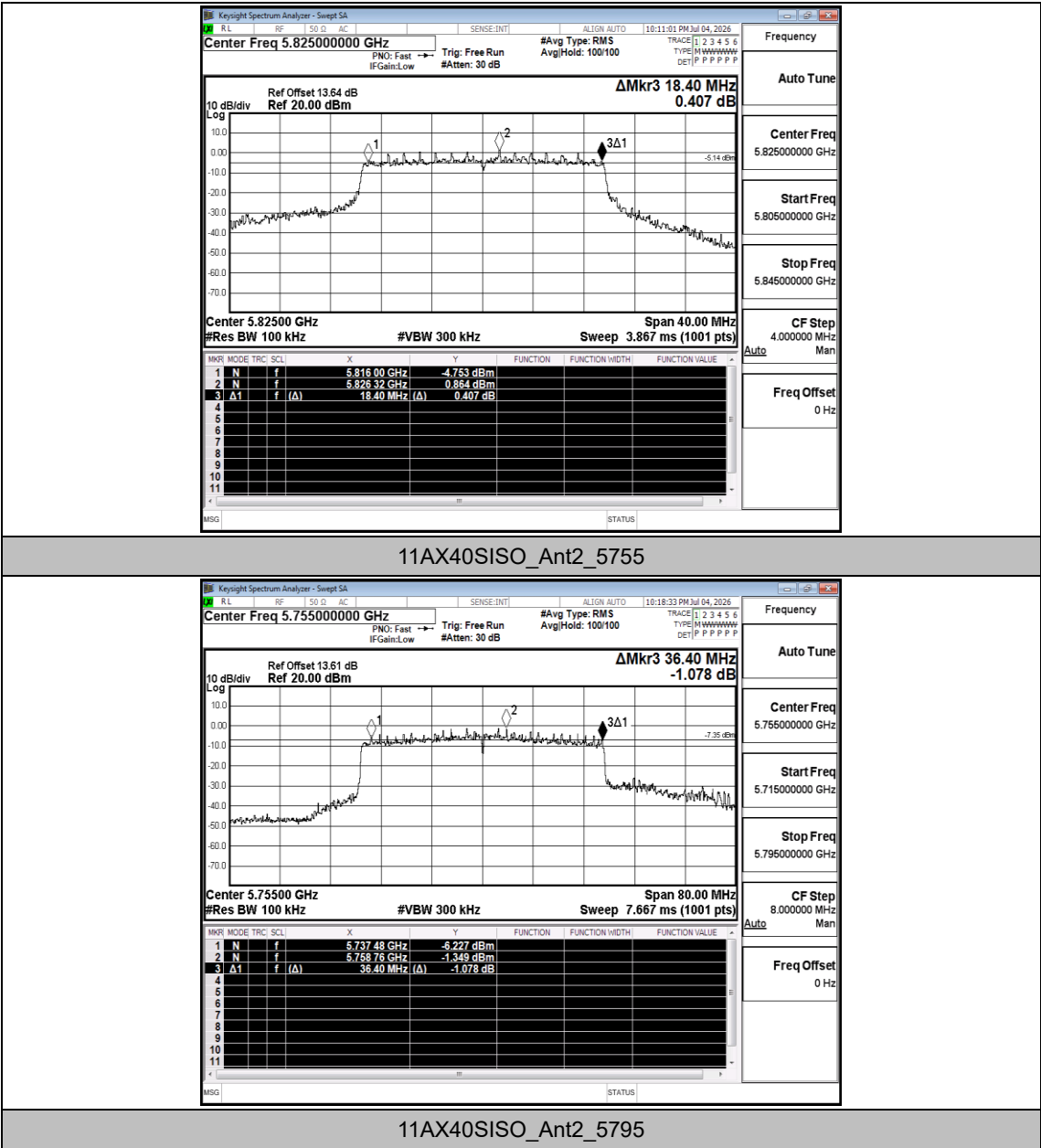


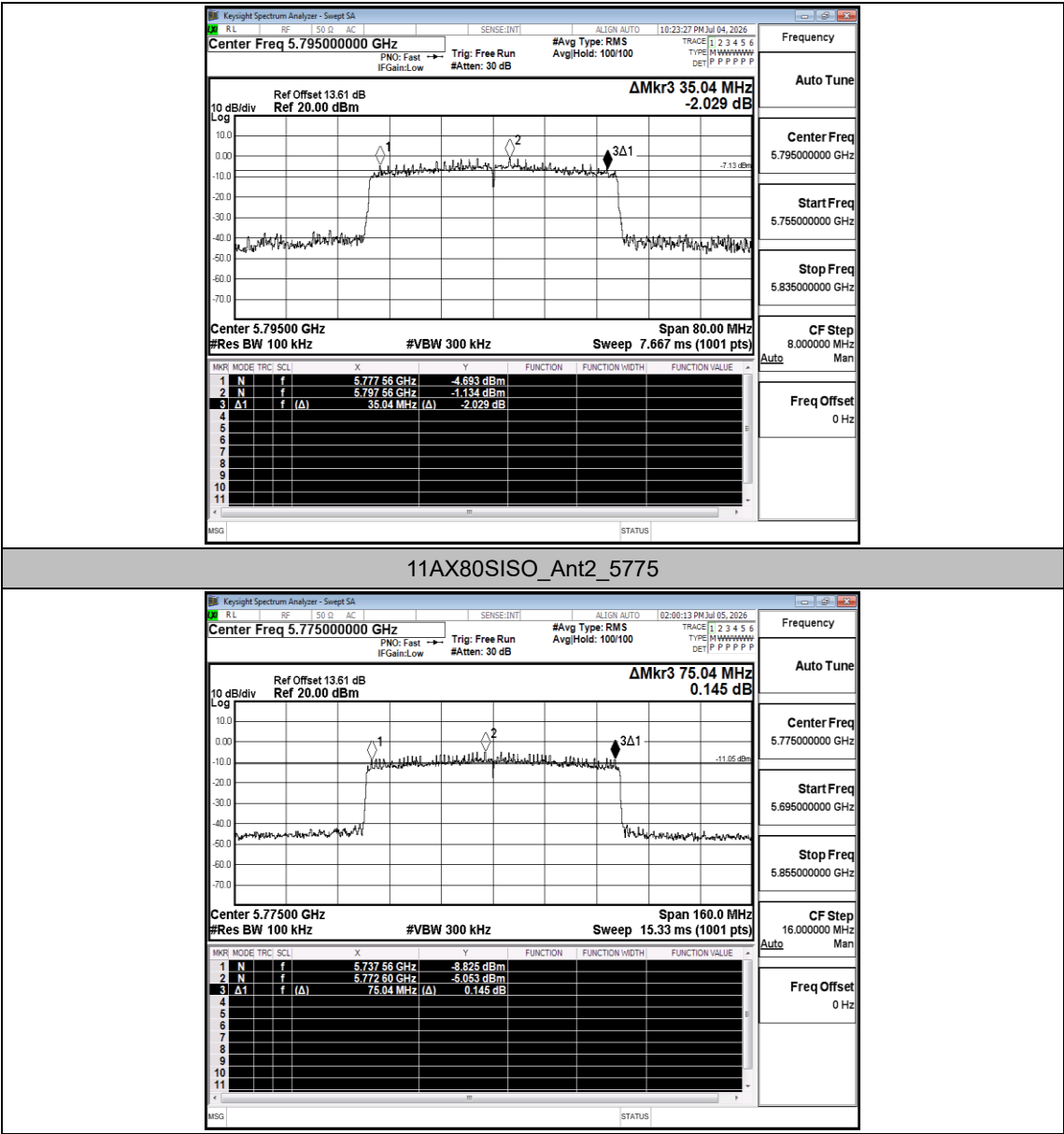








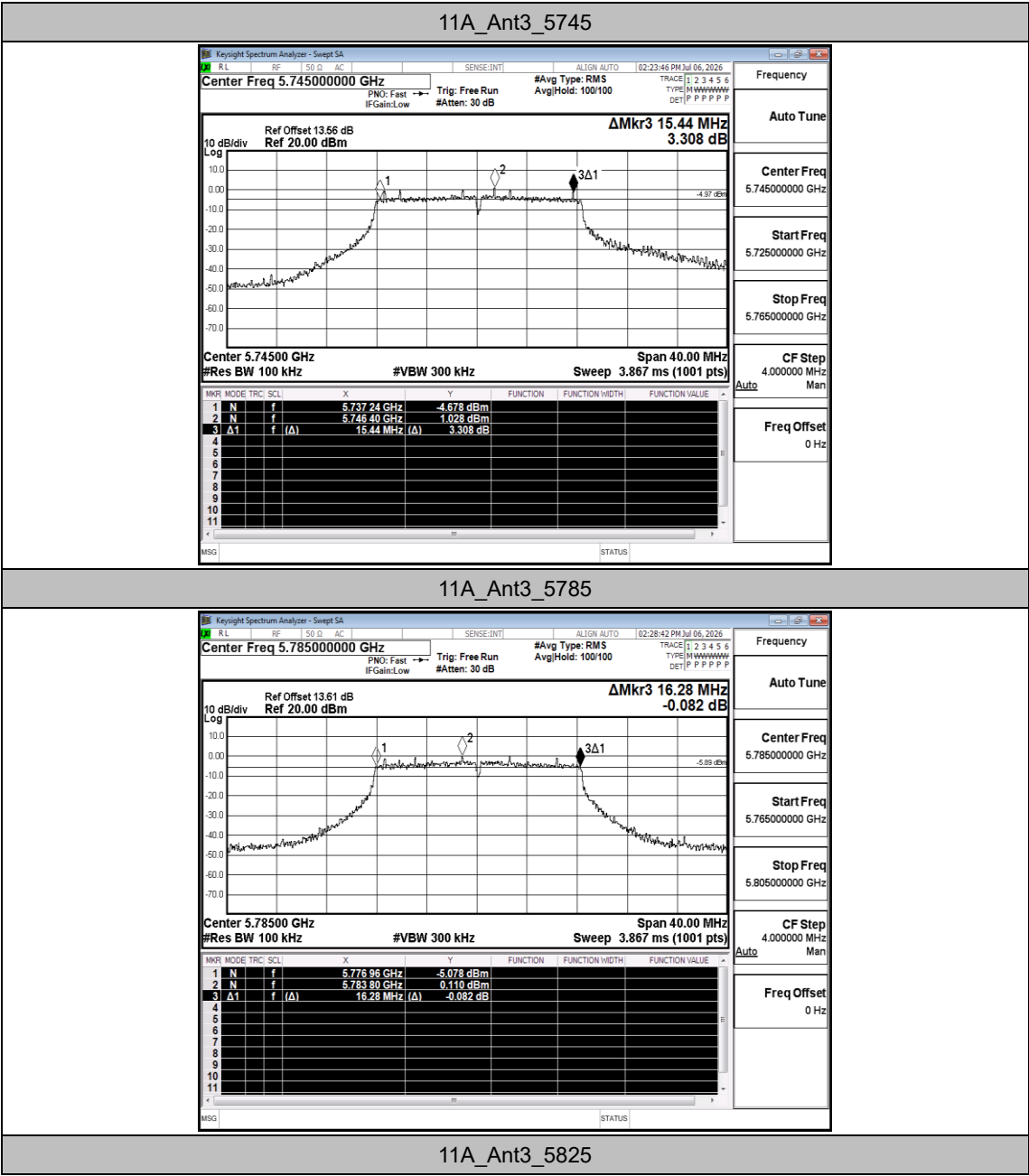


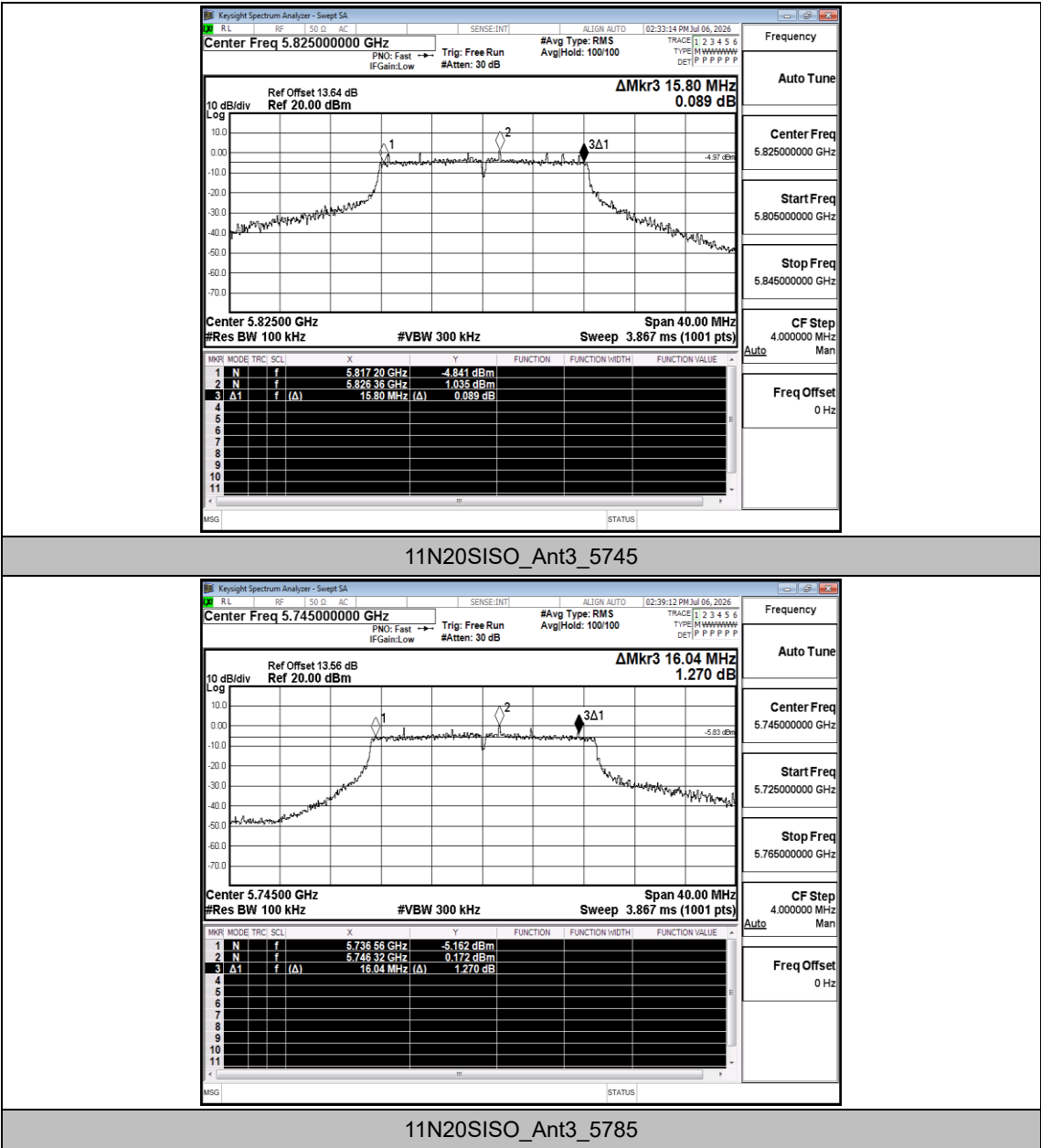


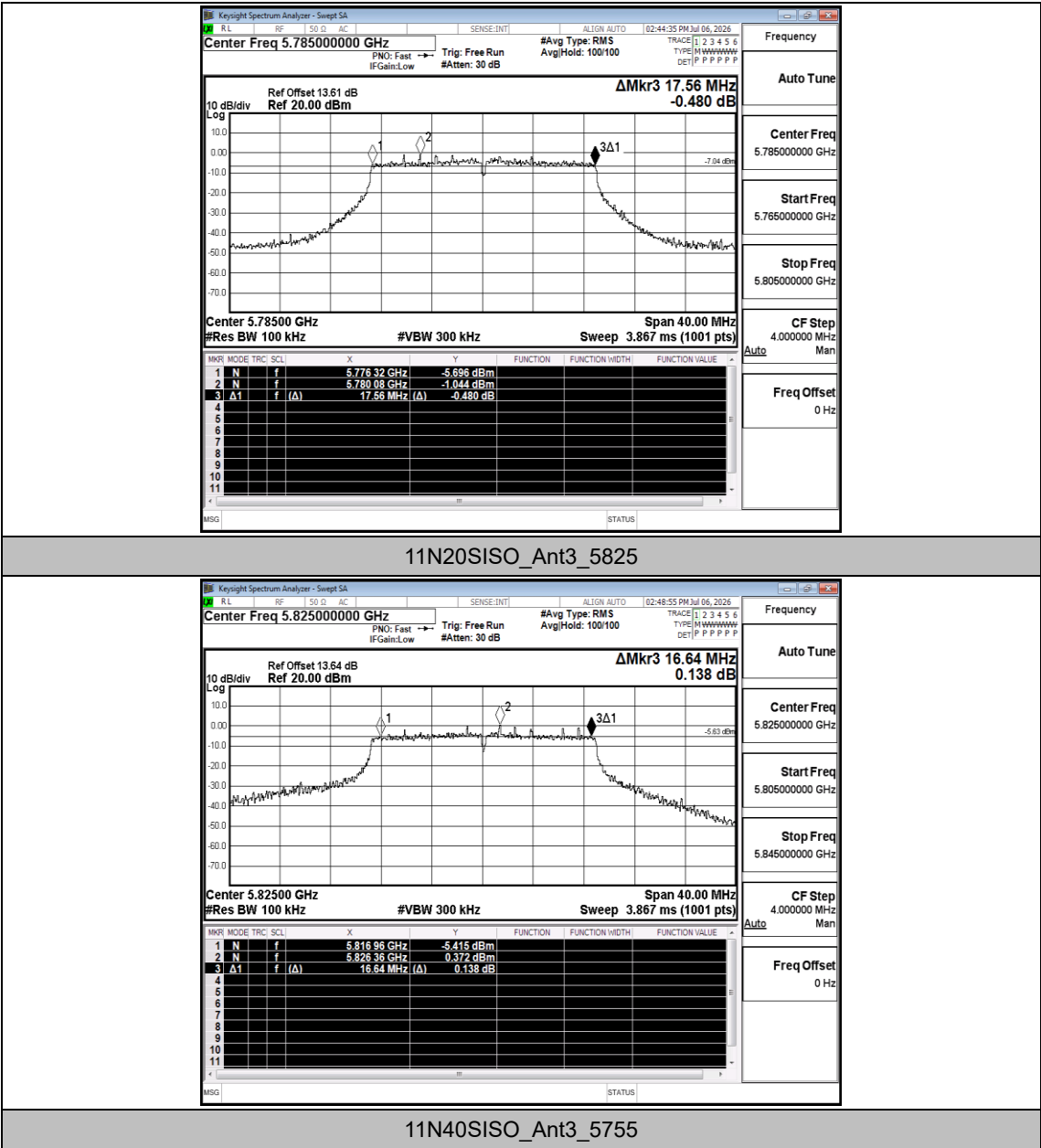
Test Result

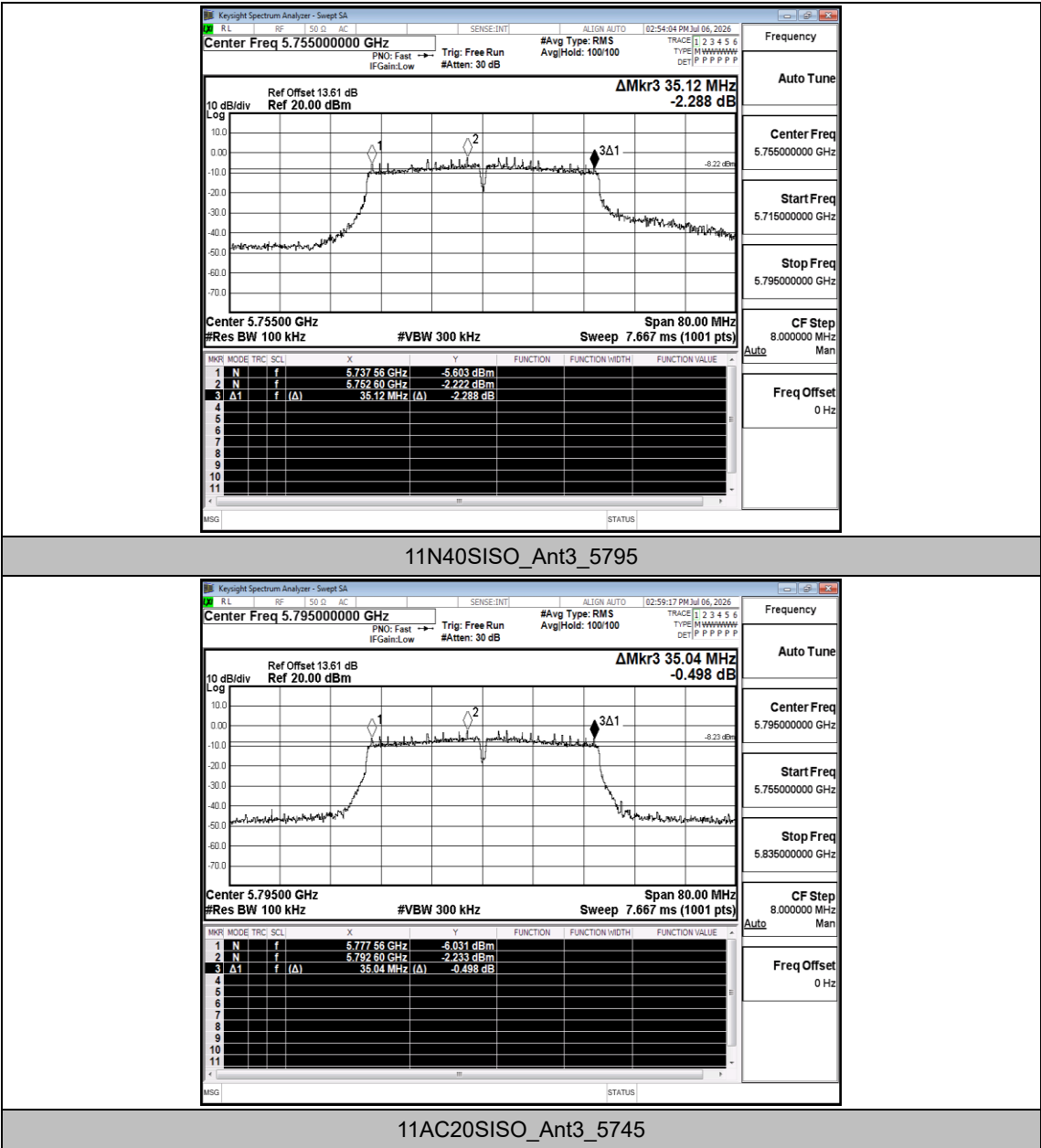
TestMode	Antenna	Freq (MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant3	5745	15.440	5737.240	5752.680	0.5	PASS
		5785	16.280	5776.960	5793.240	0.5	PASS
		5825	15.800	5817.200	5833.000	0.5	PASS
11N20SISO	Ant3	5745	16.040	5736.560	5752.600	0.5	PASS
		5785	17.560	5776.320	5793.880	0.5	PASS
		5825	16.640	5816.960	5833.600	0.5	PASS
11N40SISO	Ant3	5755	35.120	5737.560	5772.680	0.5	PASS
		5795	35.040	5777.560	5812.600	0.5	PASS
11AC20SISO	Ant3	5745	17.200	5736.840	5754.040	0.5	PASS
		5785	16.920	5776.720	5793.640	0.5	PASS
		5825	17.560	5816.480	5834.040	0.5	PASS
11AC40SISO	Ant3	5755	35.120	5737.640	5772.760	0.5	PASS
		5795	35.120	5777.640	5812.760	0.5	PASS
11AC80SISO	Ant3	5775	75.040	5737.720	5812.760	0.5	PASS
11AX20SISO	Ant3	5745	18.400	5735.800	5754.200	0.5	PASS
		5785	18.600	5775.960	5794.560	0.5	PASS
		5825	18.400	5816.280	5834.680	0.5	PASS
11AX40SISO	Ant3	5755	35.040	5737.720	5772.760	0.5	PASS
		5795	35.040	5777.720	5812.760	0.5	PASS
11AX80SISO	Ant3	5775	75.040	5737.720	5812.760	0.5	PASS

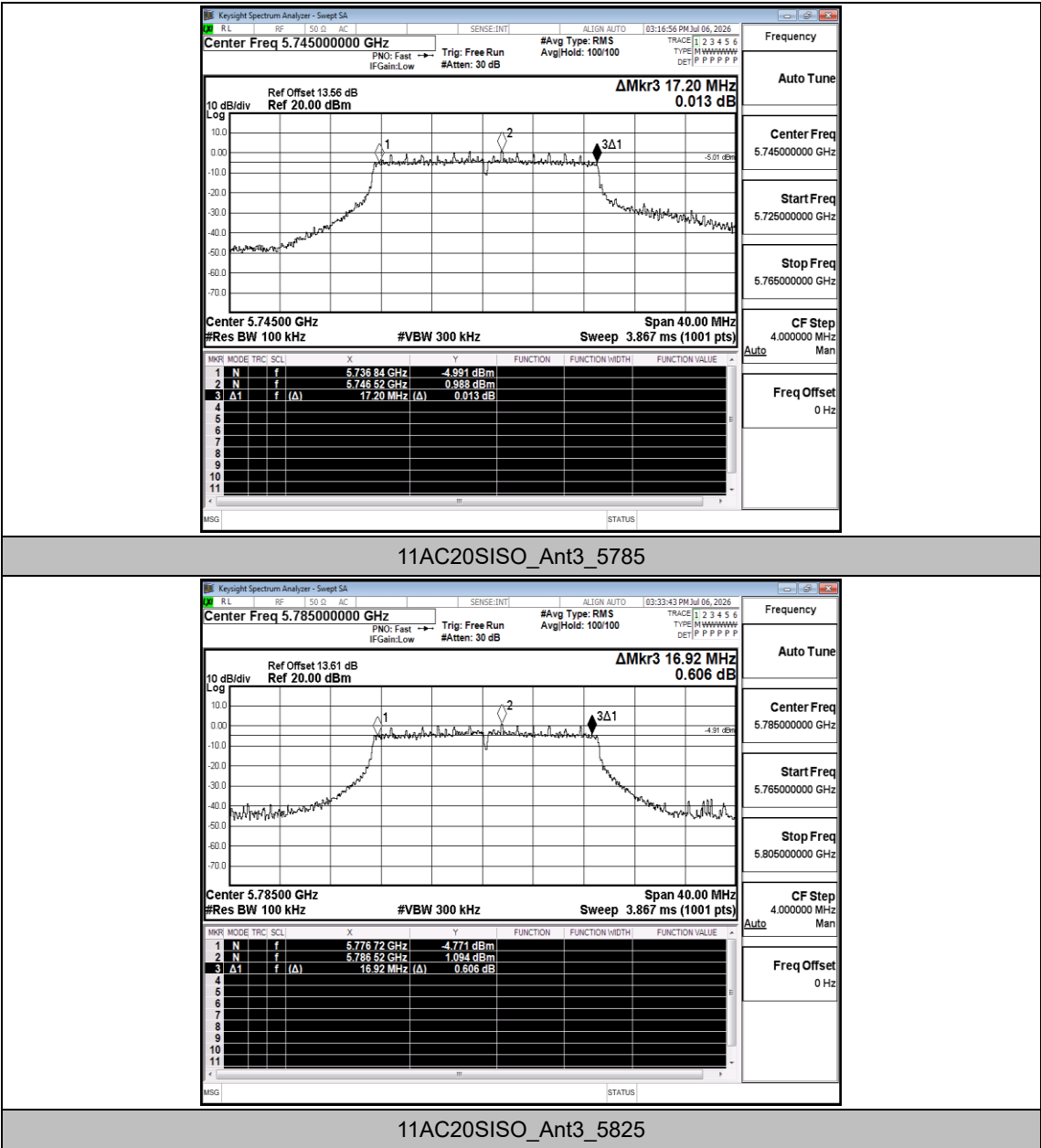
Test Graphs B4

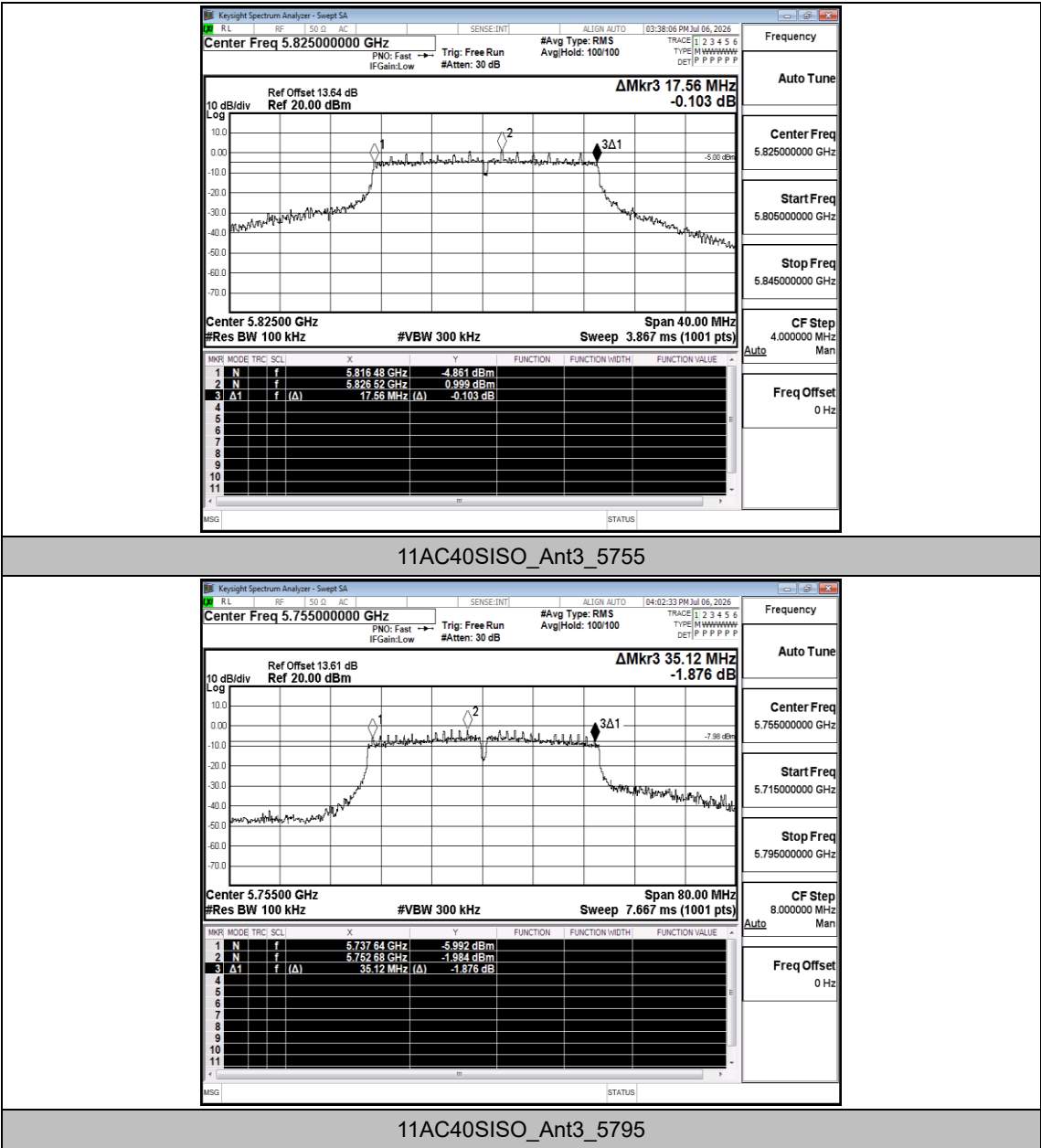


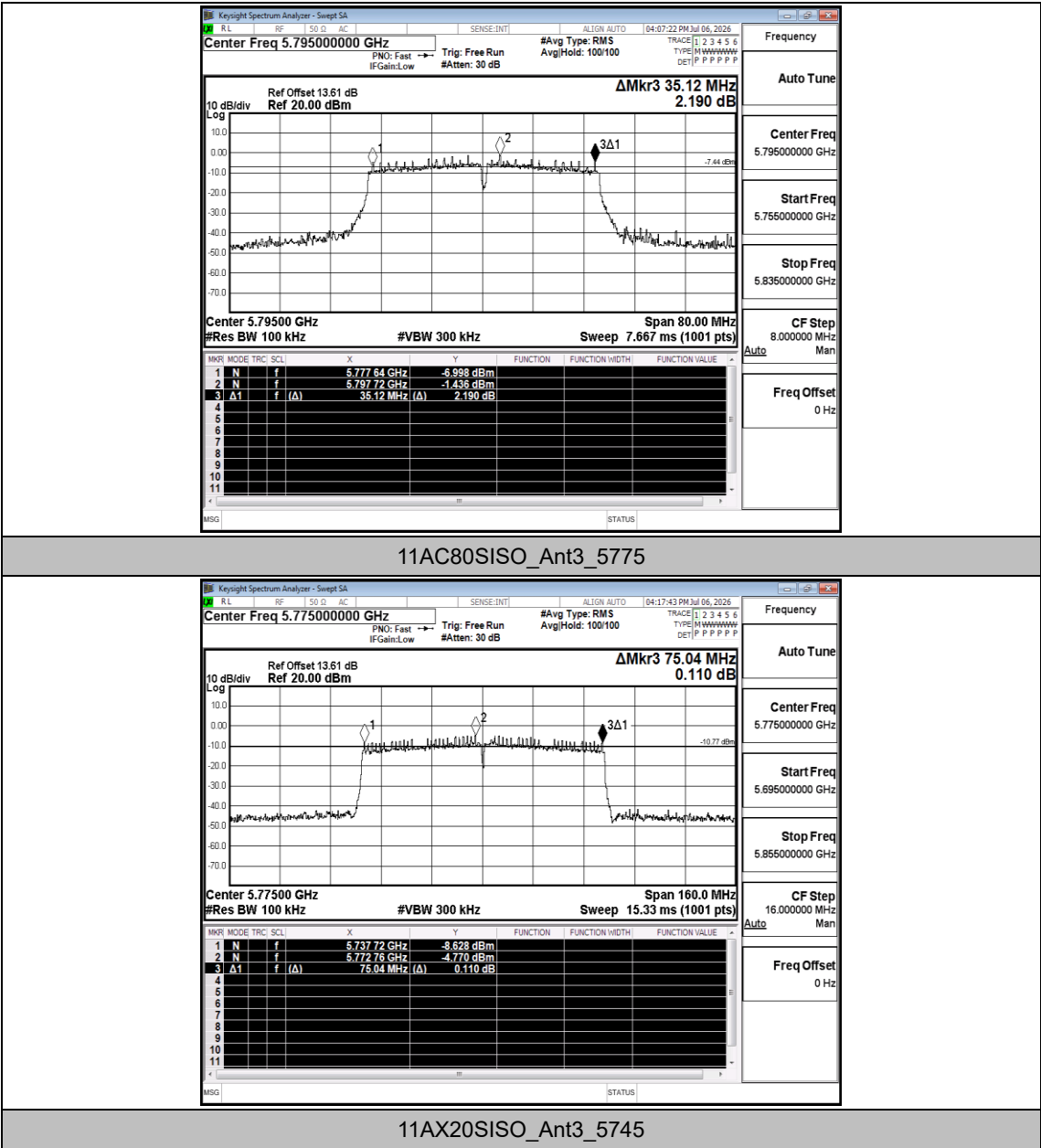


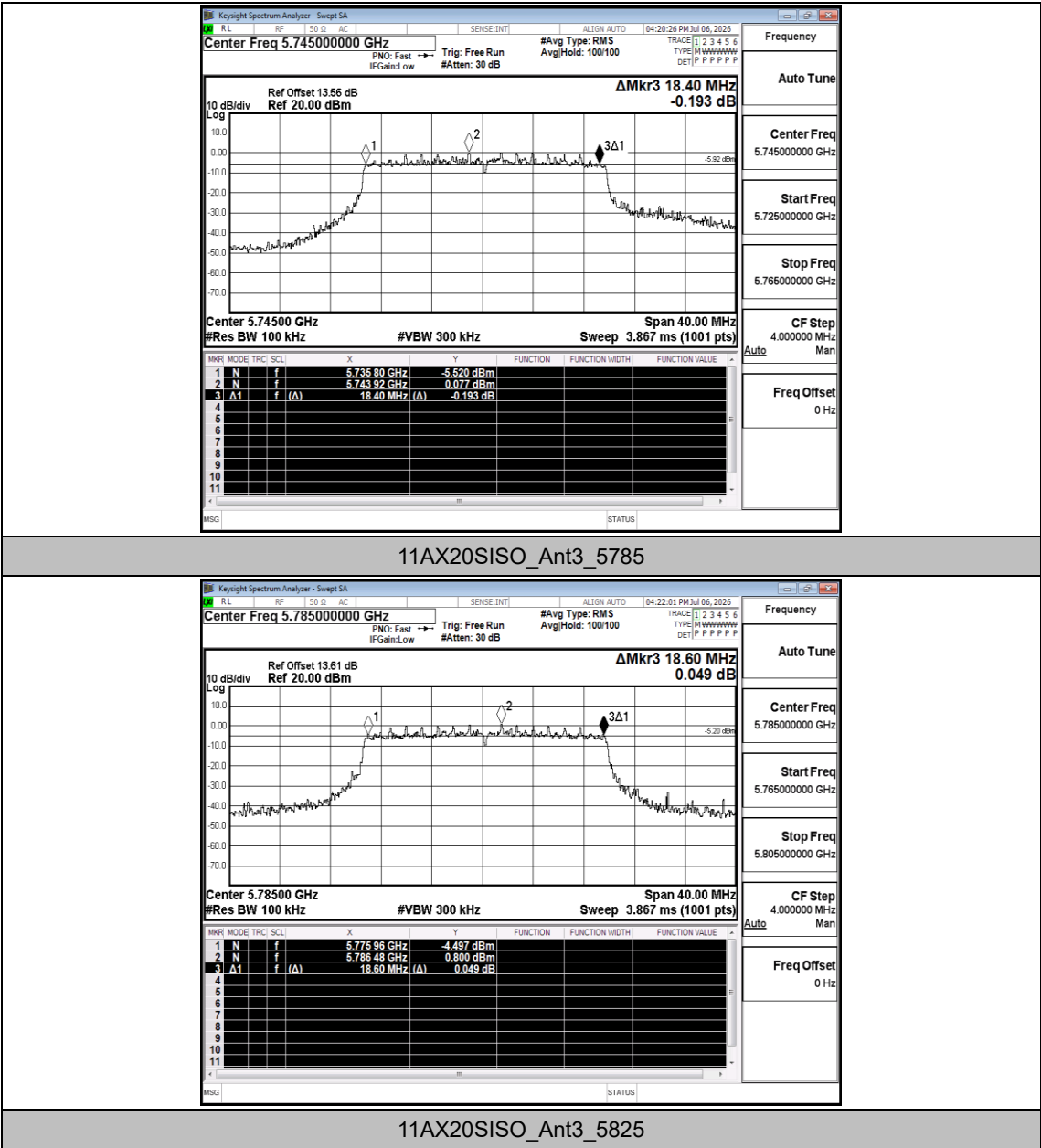


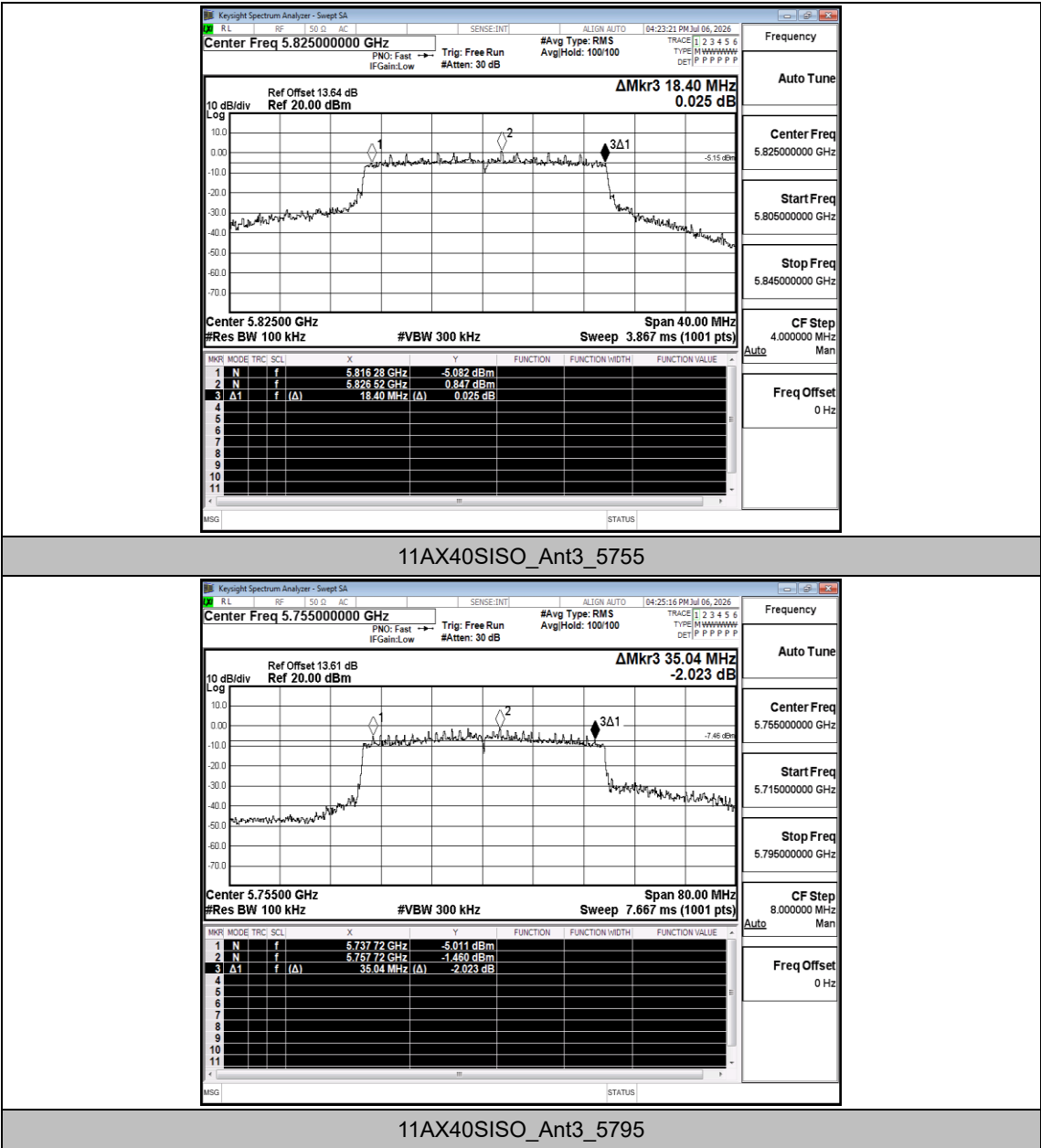


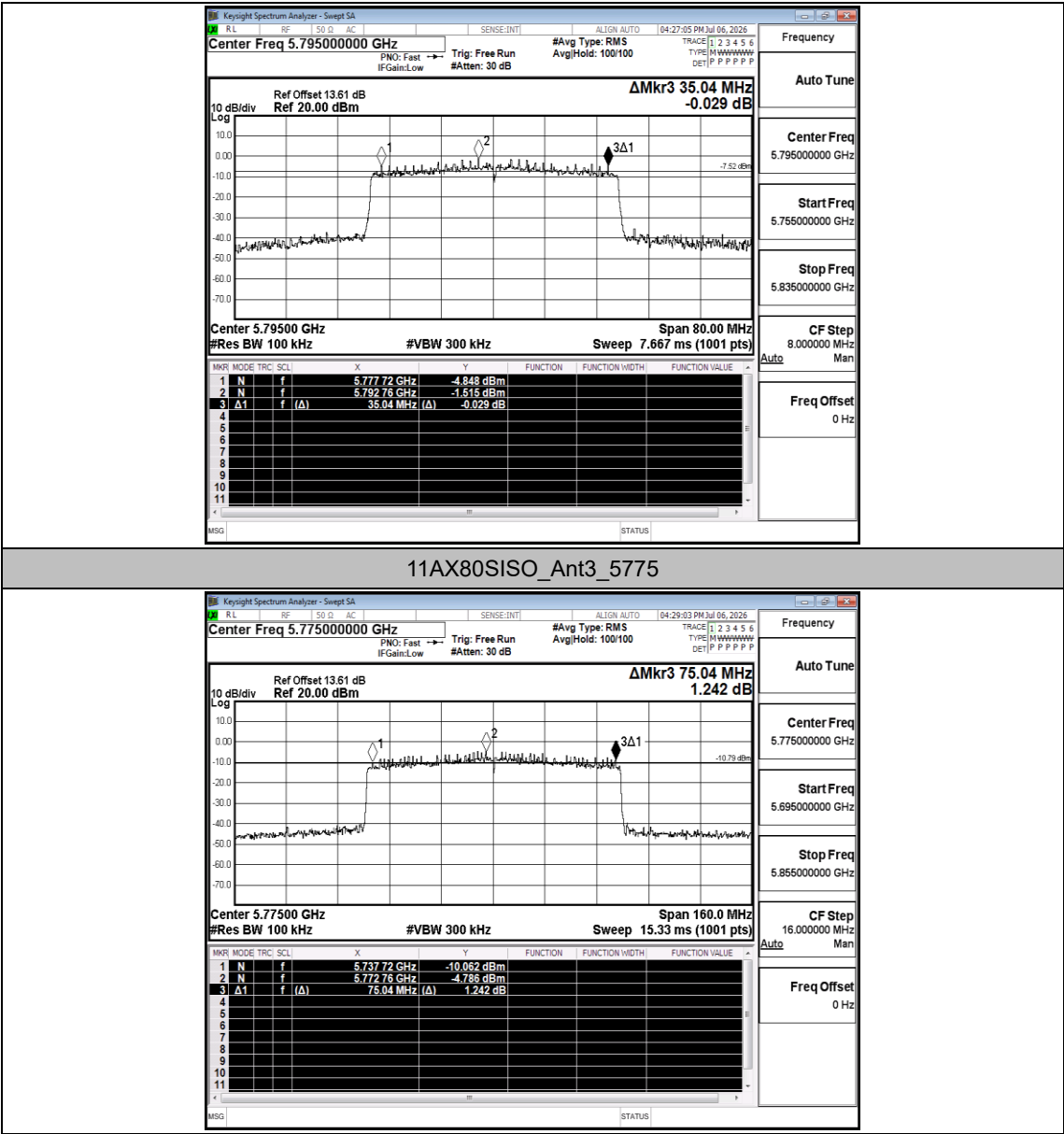












E.2 Maximum conducted output power

Test Result

Test Mode	Antenna	Freq (MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	NA	17.79	0.18	17.97	≤30.00	PASS
		5785	NA	17.74	0.15	17.89	≤30.00	PASS
		5825	NA	17.55	0.21	17.76	≤30.00	PASS
11N20SISO	Ant1	5745	NA	17.22	0.16	17.38	≤30.00	PASS
		5785	NA	17.33	0.19	17.52	≤30.00	PASS
		5825	NA	17.18	0.19	17.37	≤30.00	PASS
11N40SISO	Ant1	5755	NA	17.25	0.32	17.57	≤30.00	PASS
		5795	NA	17.07	0.38	17.45	≤30.00	PASS
11AC20SISO	Ant1	5745	NA	16.02	0.51	16.53	≤30.00	PASS
		5785	NA	16.83	0.51	17.34	≤30.00	PASS
		5825	NA	16.81	0.51	17.32	≤30.00	PASS
11AC40SISO	Ant1	5755	NA	16.61	0.90	17.51	≤30.00	PASS
		5795	NA	16.46	0.90	17.36	≤30.00	PASS
11AC80SISO	Ant1	5775	NA	15.55	1.46	17.01	≤30.00	PASS
11AX20SISO	Ant1	5745	NA	13.29	0.57	13.86	≤22.95	PASS
		5785	NA	14.36	0.58	14.94	≤22.95	PASS
		5825	NA	14.10	0.57	14.67	≤22.95	PASS
11AX40SISO	Ant1	5755	NA	14.31	0.48	14.79	≤22.95	PASS
		5795	NA	14.26	0.58	14.84	≤22.95	PASS
11AX80SISO	Ant1	5775	NA	13.92	0.59	14.51	≤22.95	PASS

Test Mode	Antenna	Freq (MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	5745	NA	13.48	0.18	13.66	≤30.00	PASS
		5785	NA	13.41	0.18	13.59	≤30.00	PASS
		5825	NA	13.05	0.18	13.23	≤30.00	PASS
11N20SISO	Ant2	5745	NA	11.89	0.16	12.05	≤30.00	PASS
		5785	NA	12.92	0.19	13.11	≤30.00	PASS
		5825	NA	12.61	0.23	12.84	≤30.00	PASS
11N40SISO	Ant2	5755	NA	12.80	0.32	13.12	≤30.00	PASS
		5795	NA	12.68	0.38	13.06	≤30.00	PASS
11AC20SISO	Ant2	5745	NA	10.87	2.43	13.30	≤30.00	PASS
		5785	NA	10.69	2.22	12.91	≤30.00	PASS
		5825	NA	10.64	2.43	13.07	≤30.00	PASS
11AC40SISO	Ant2	5755	NA	10.18	2.69	12.87	≤30.00	PASS
		5795	NA	10.00	2.69	12.69	≤30.00	PASS
11AC80SISO	Ant2	5775	NA	9.35	3.01	12.36	≤30.00	PASS
11AX20SISO	Ant2	5745	NA	13.23	0.58	13.81	≤30.00	PASS
		5785	NA	13.18	0.58	13.76	≤30.00	PASS
		5825	NA	12.90	0.57	13.47	≤30.00	PASS
11AX40SISO	Ant2	5755	NA	13.19	0.58	13.77	≤30.00	PASS
		5795	NA	13.18	0.48	13.66	≤30.00	PASS
11AX80SISO	Ant2	5775	NA	12.66	0.49	13.15	≤30.00	PASS

Test Mode	Antenna	Freq (MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant3	5745	NA	12.85	0.18	13.03	≤30.00	PASS
		5785	NA	12.78	0.15	12.93	≤30.00	PASS
		5825	NA	12.49	0.18	12.67	≤30.00	PASS
11N20SISO	Ant3	5745	NA	12.29	0.19	12.48	≤30.00	PASS
		5785	NA	12.37	0.19	12.56	≤30.00	PASS
		5825	NA	12.02	0.16	12.18	≤30.00	PASS
11N40SISO	Ant3	5755	NA	12.20	0.38	12.58	≤30.00	PASS
		5795	NA	12.07	0.38	12.45	≤30.00	PASS
11AC20SISO	Ant3	5745	NA	12.87	0.51	13.38	≤30.00	PASS
		5785	NA	12.85	0.43	13.28	≤30.00	PASS
		5825	NA	12.42	0.51	12.93	≤30.00	PASS
11AC40SISO	Ant3	5755	NA	12.36	0.90	13.26	≤30.00	PASS
		5795	NA	12.29	0.90	13.19	≤30.00	PASS
11AC80SISO	Ant3	5775	NA	11.31	1.46	12.77	≤30.00	PASS
11AX20SISO	Ant3	5745	NA	12.94	0.57	13.51	≤30.00	PASS
		5785	NA	12.95	0.57	13.52	≤30.00	PASS
		5825	NA	12.63	0.48	13.11	≤30.00	PASS
11AX40SISO	Ant3	5755	NA	13.04	0.58	13.62	≤30.00	PASS
		5795	NA	12.92	0.58	13.50	≤30.00	PASS
11AX80SISO	Ant3	5775	NA	12.57	0.59	13.16	≤30.00	PASS

MIMO

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)				Limit (dBm)	Verdict
			Ant1	Ant2	Ant3	Ant1+Ant2+Ant3		
NVNT	n20	5745	17.38	12.05	12.48	19.47	30	Pass
NVNT	n20	5785	17.52	13.11	12.56	19.78	30	Pass
NVNT	n20	5825	17.37	12.84	12.18	19.56	30	Pass
NVNT	n40	5755	17.57	13.12	12.58	19.81	30	Pass
NVNT	n40	5795	17.45	13.06	12.45	19.70	30	Pass
NVNT	ac20	5745	16.53	13.30	13.38	19.45	30	Pass
NVNT	ac20	5785	17.34	12.91	13.28	19.78	30	Pass
NVNT	ac20	5825	17.32	13.07	12.93	19.72	30	Pass
NVNT	ac40	5755	17.51	12.87	13.26	19.86	30	Pass
NVNT	ac40	5795	17.36	12.69	13.19	19.73	30	Pass
NVNT	ac80	5775	17.01	12.36	12.77	19.36	30	Pass
NVNT	ax20	5745	13.86	13.81	13.51	18.50	30	Pass
NVNT	ax20	5785	14.94	13.76	13.52	18.89	30	Pass
NVNT	ax20	5825	14.67	13.47	13.11	18.57	30	Pass
NVNT	ax40	5755	14.79	13.77	13.62	18.86	30	Pass
NVNT	ax40	5795	14.84	13.66	13.50	18.81	30	Pass
NVNT	ax80	5775	14.51	13.15	13.16	18.43	30	Pass

E.3 Maximum power spectral density

Test Result

TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	RBW Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5745	0.29	0.18	2.22	2.69	≤30.00	PASS
		5785	0.56	0.15	2.22	2.93	≤30.00	PASS
		5825	0.83	0.21	2.22	3.26	≤30.00	PASS
11N20SISO	Ant1	5745	-0.51	0.16	2.22	1.87	≤30.00	PASS
		5785	0.04	0.19	2.22	2.45	≤30.00	PASS
		5825	-0.19	0.19	2.22	2.22	≤30.00	PASS
11N40SISO	Ant1	5755	-2.58	0.32	2.22	-0.04	≤30.00	PASS
		5795	-2.44	0.38	2.22	0.16	≤30.00	PASS
11AC20SISO	Ant1	5745	-0.95	0.51	2.22	1.78	≤30.00	PASS
		5785	-0.17	0.51	2.22	2.56	≤30.00	PASS
		5825	-0.55	0.51	2.22	2.18	≤30.00	PASS
11AC40SISO	Ant1	5755	-2.83	0.90	2.22	0.29	≤30.00	PASS
		5795	-2.79	0.90	2.22	0.33	≤30.00	PASS
11AC80SISO	Ant1	5775	-6.77	1.46	2.22	-3.09	≤30.00	PASS
11AX20SISO	Ant1	5745	-4.59	0.57	2.22	-1.80	≤22.95	PASS
		5785	-3.12	0.58	2.22	-0.32	≤22.95	PASS
		5825	-3.6	0.57	2.22	-0.81	≤22.95	PASS
11AX40SISO	Ant1	5755	-5.87	0.48	2.22	-3.17	≤22.95	PASS
		5795	-5.66	0.58	2.22	-2.86	≤22.95	PASS
11AX80SISO	Ant1	5775	-8.74	0.59	2.22	-5.93	≤22.95	PASS

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

TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	RBW Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant2	5745	-4.32	0.18	2.22	-1.92	≤30.00	PASS
		5785	-3.93	0.18	2.22	-1.53	≤30.00	PASS
		5825	-3.89	0.18	2.22	-1.49	≤30.00	PASS
11N20SISO	Ant2	5745	-6.08	0.16	2.22	-3.70	≤30.00	PASS
		5785	-4.24	0.19	2.22	-1.83	≤30.00	PASS
		5825	-4.96	0.23	2.22	-2.51	≤30.00	PASS
11N40SISO	Ant2	5755	-7.11	0.32	2.22	-4.57	≤30.00	PASS
		5795	-7.11	0.38	2.22	-4.51	≤30.00	PASS
11AC20SISO	Ant2	5745	-5.58	2.43	2.22	-0.93	≤30.00	PASS
		5785	-5.94	2.22	2.22	-1.50	≤30.00	PASS
		5825	-5.6	2.43	2.22	-0.95	≤30.00	PASS
11AC40SISO	Ant2	5755	-9.44	2.69	2.22	-4.53	≤30.00	PASS
		5795	-8.97	2.69	2.22	-4.06	≤30.00	PASS
11AC80SISO	Ant2	5775	-12.4	3.01	2.22	-7.17	≤30.00	PASS
11AX20SISO	Ant2	5745	-5.13	0.58	2.22	-2.33	≤30.00	PASS
		5785	-4.5	0.58	2.22	-1.70	≤30.00	PASS
		5825	-4.42	0.57	2.22	-1.63	≤30.00	PASS
11AX40SISO	Ant2	5755	-7.09	0.58	2.22	-4.29	≤30.00	PASS
		5795	-6.67	0.48	2.22	-3.97	≤30.00	PASS
11AX80SISO	Ant2	5775	-10.89	0.49	2.22	-8.18	≤30.00	PASS

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