

Appendix E

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: Tablet

Test Model: MegaPad

Environmental Conditions

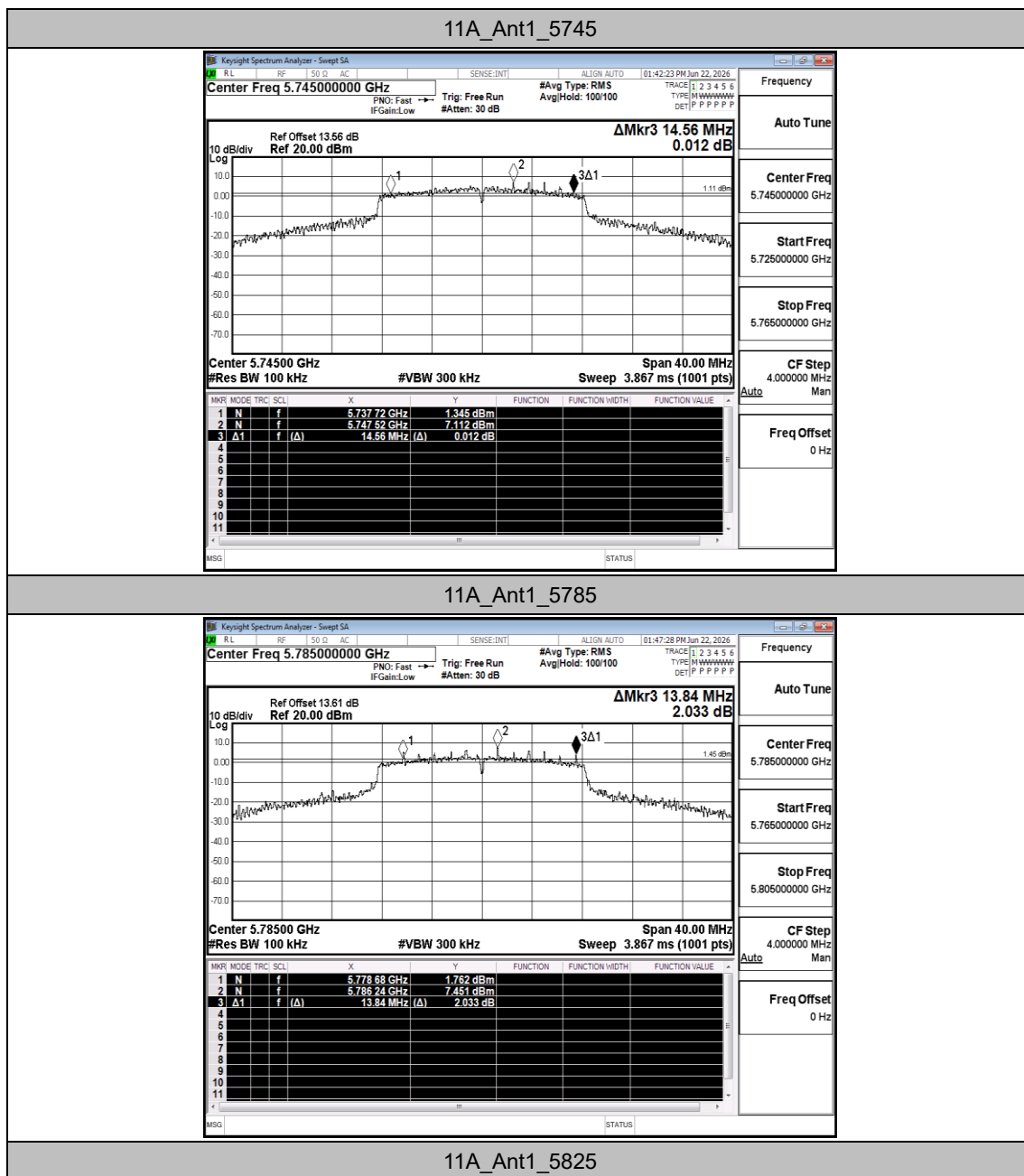
Temperature:	24.1°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

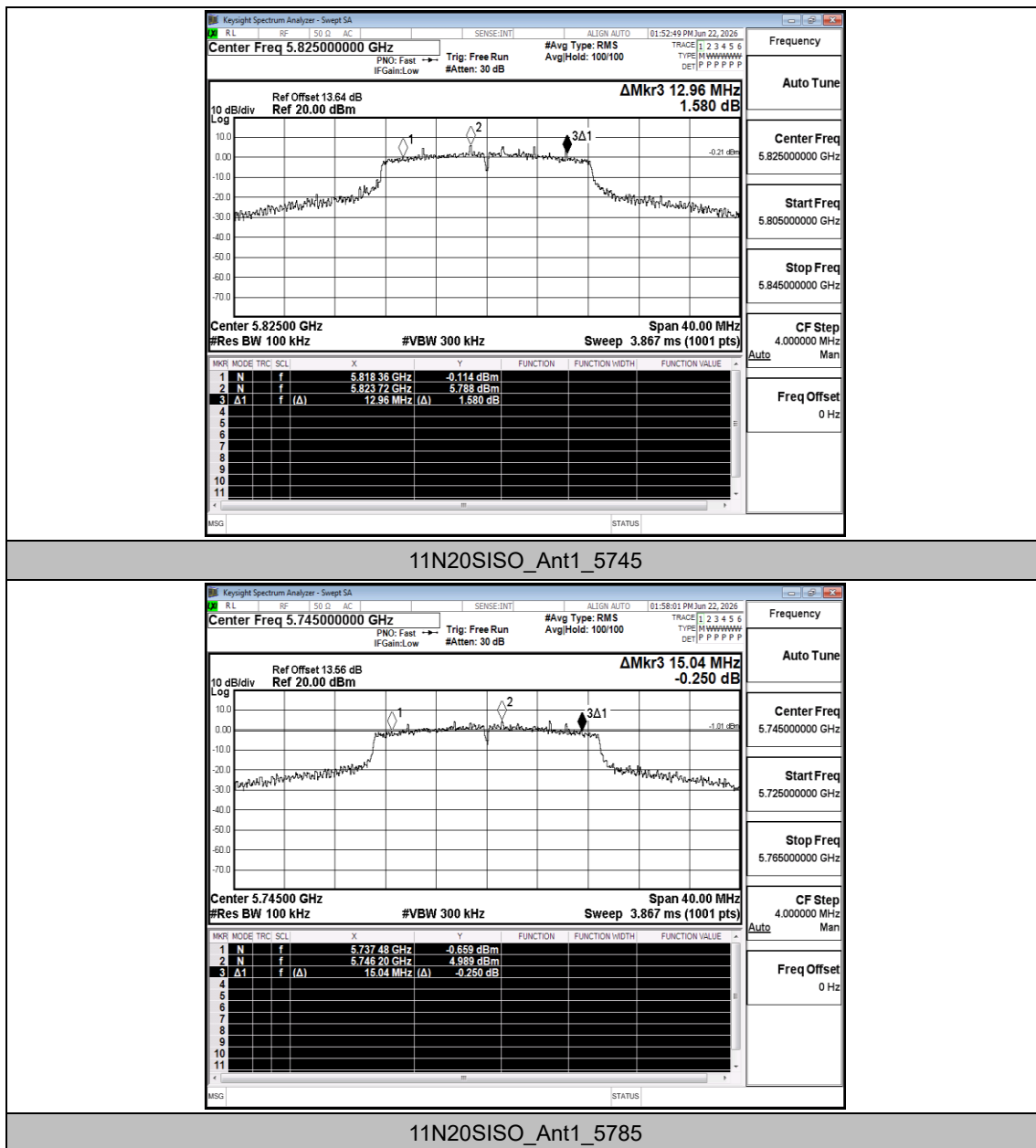
E.1 Min emission bandwidth

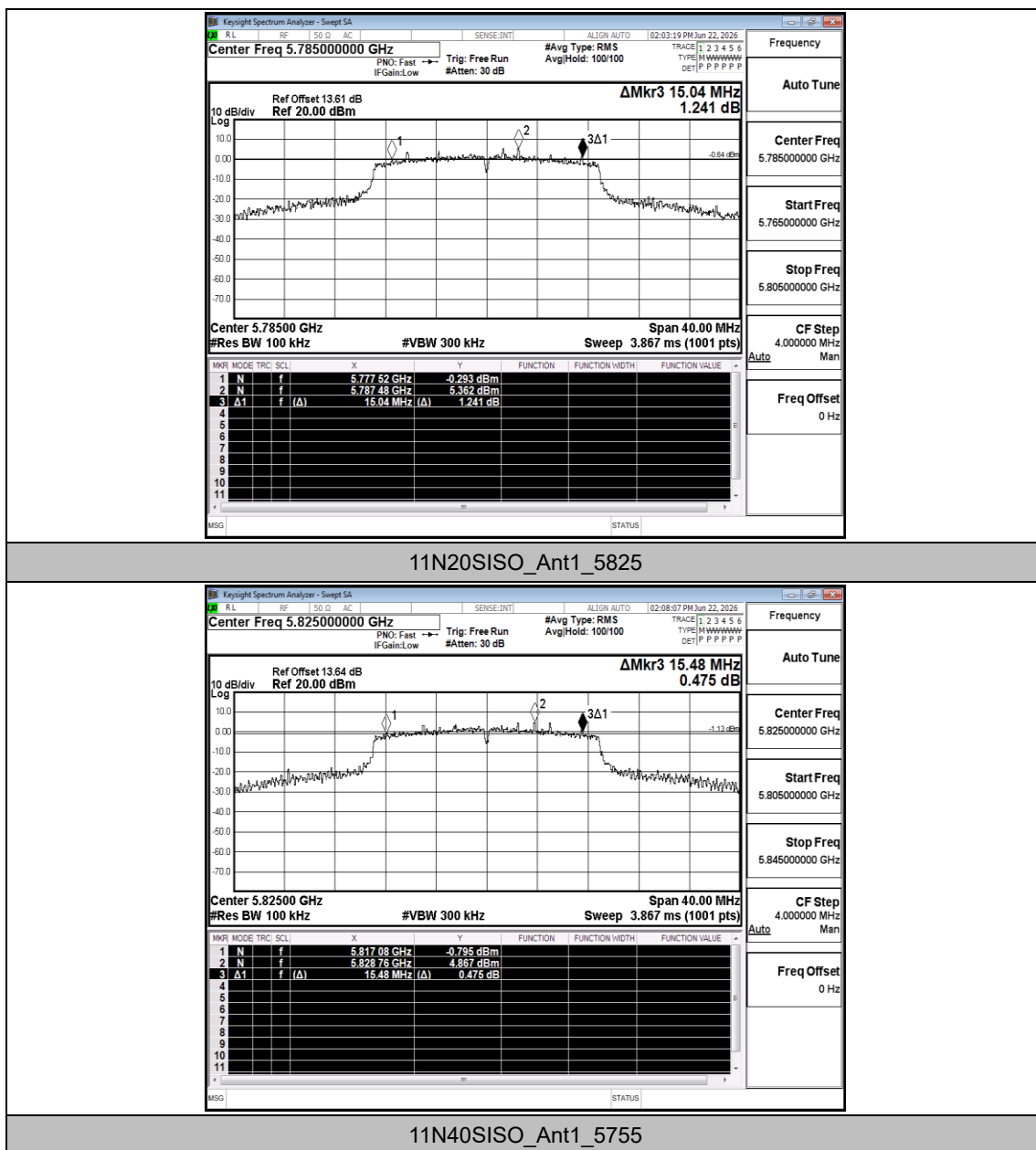
Test Result B4

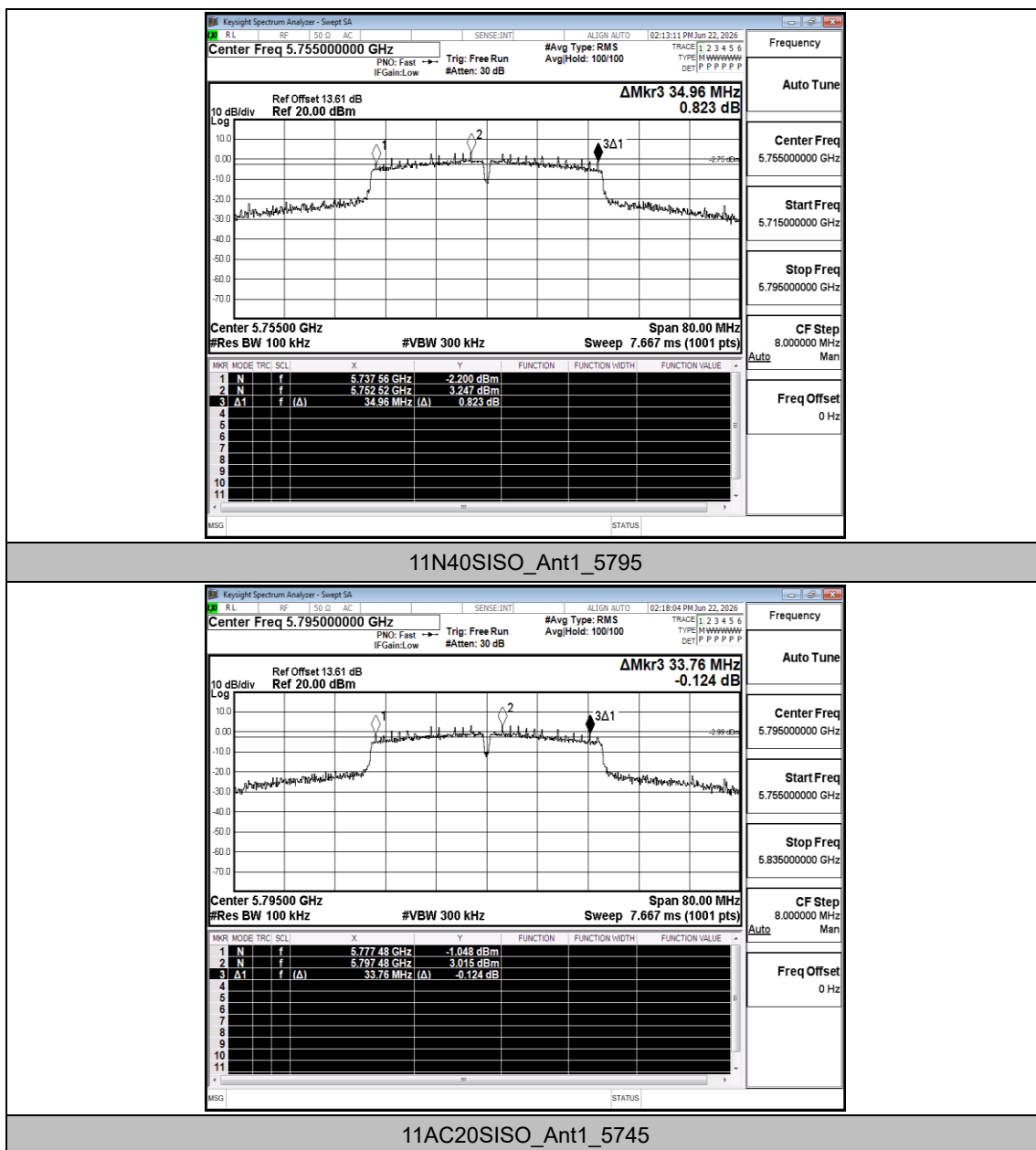
TestMode	Antenna	Freq (MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	14.560	5737.720	5752.280	0.5	PASS
		5785	13.840	5778.680	5792.520	0.5	PASS
		5825	12.960	5818.360	5831.320	0.5	PASS
11N20SISO	Ant1	5745	15.040	5737.480	5752.520	0.5	PASS
		5785	15.040	5777.520	5792.560	0.5	PASS
		5825	15.480	5817.080	5832.560	0.5	PASS
11N40SISO	Ant1	5755	34.960	5737.560	5772.520	0.5	PASS
		5795	33.760	5777.480	5811.240	0.5	PASS
11AC20SISO	Ant1	5745	12.720	5738.720	5751.440	0.5	PASS
		5785	16.240	5776.640	5792.880	0.5	PASS
		5825	15.040	5817.520	5832.560	0.5	PASS
11AC40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	73.920	5738.680	5812.600	0.5	PASS

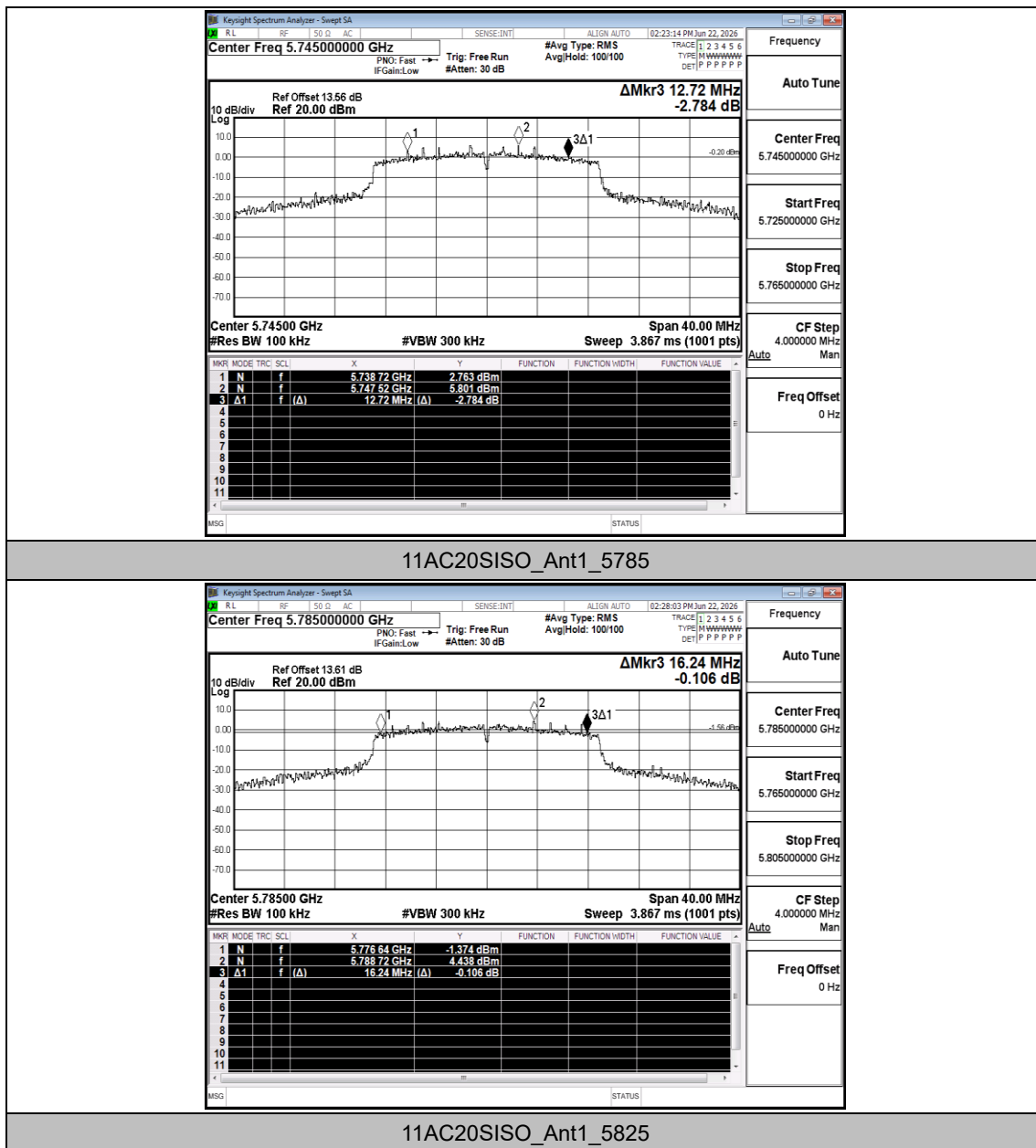
Test Graphs B4

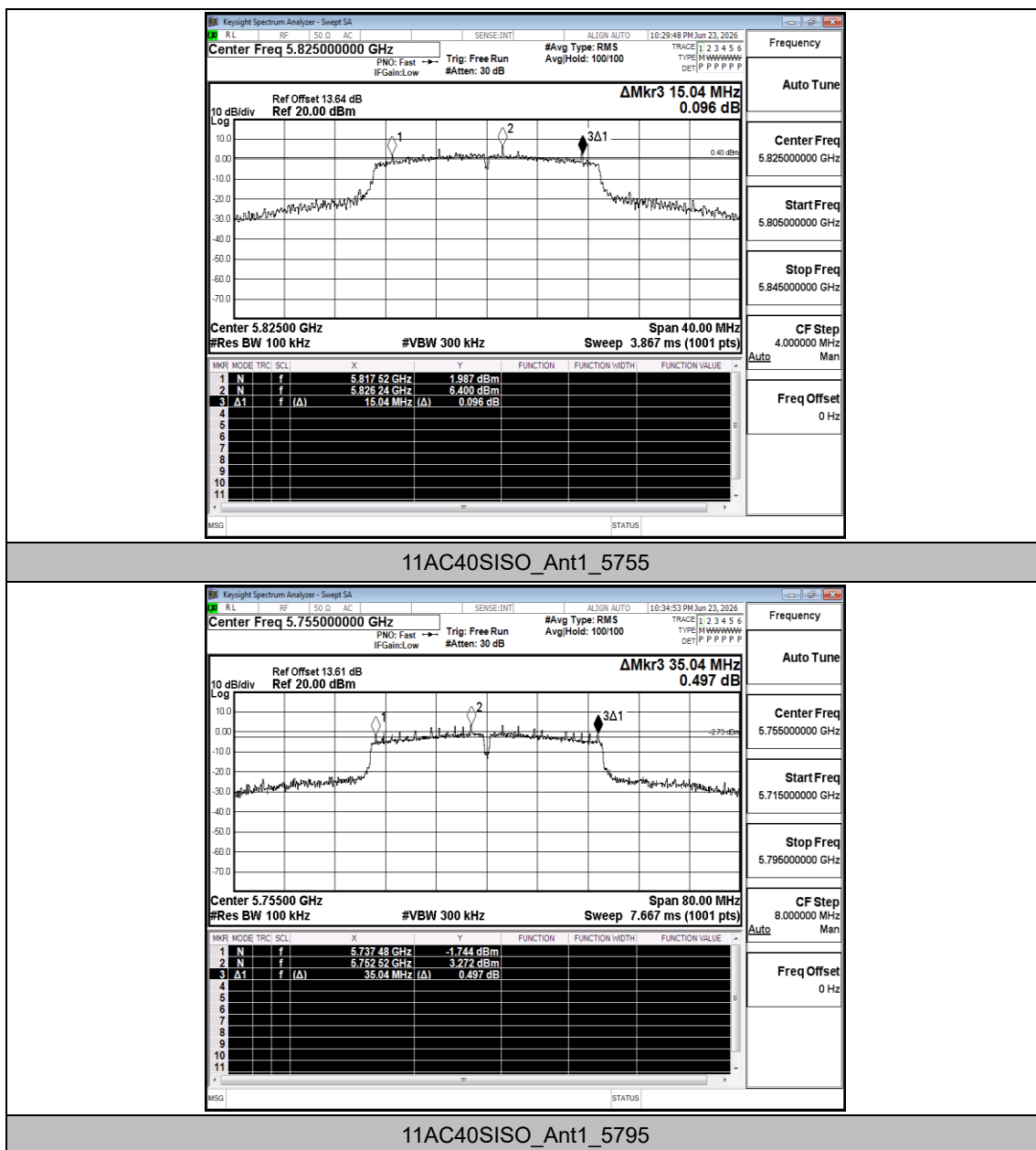


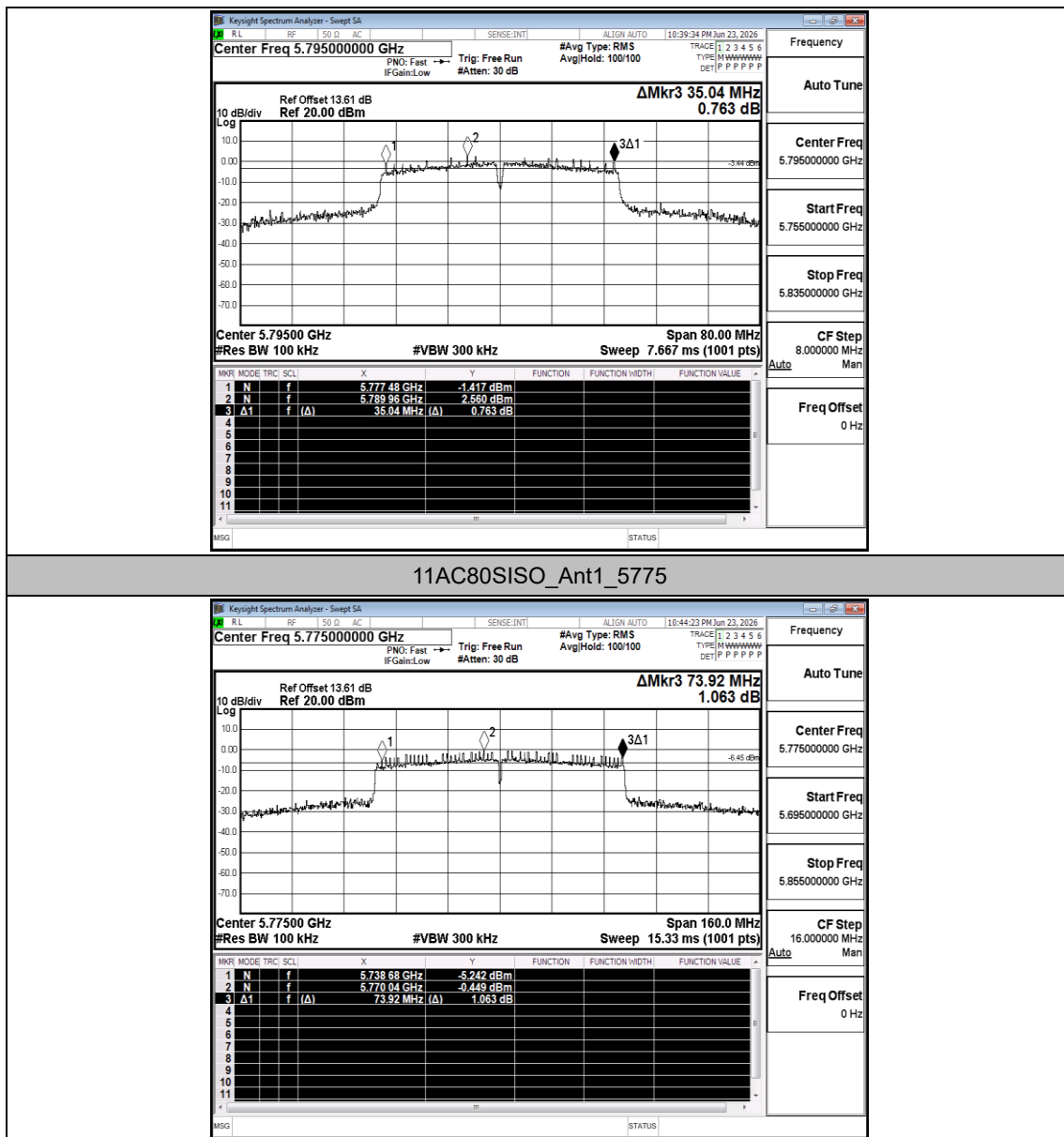












E.2 Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq (MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	NA	18.21	0.15	18.36	≤30.00	PASS
		5785	NA	18.19	0.12	18.31	≤30.00	PASS
		5825	NA	17.01	0.12	17.13	≤30.00	PASS
11N20SISO	Ant1	5745	NA	17.32	0.16	17.48	≤30.00	PASS
		5785	NA	17.04	0.13	17.17	≤30.00	PASS
		5825	NA	16.81	0.16	16.97	≤30.00	PASS
11N40SISO	Ant1	5755	NA	17.58	0.26	17.84	≤30.00	PASS
		5795	NA	17.40	0.26	17.66	≤30.00	PASS
11AC20SISO	Ant1	5745	NA	17.42	0.13	17.55	≤30.00	PASS
		5785	NA	18.02	0.13	18.15	≤30.00	PASS
		5825	NA	17.19	0.16	17.35	≤30.00	PASS
11AC40SISO	Ant1	5755	NA	16.98	0.26	17.24	≤30.00	PASS
		5795	NA	17.09	0.26	17.35	≤30.00	PASS
11AC80SISO	Ant1	5775	NA	16.70	0.50	17.20	≤30.00	PASS

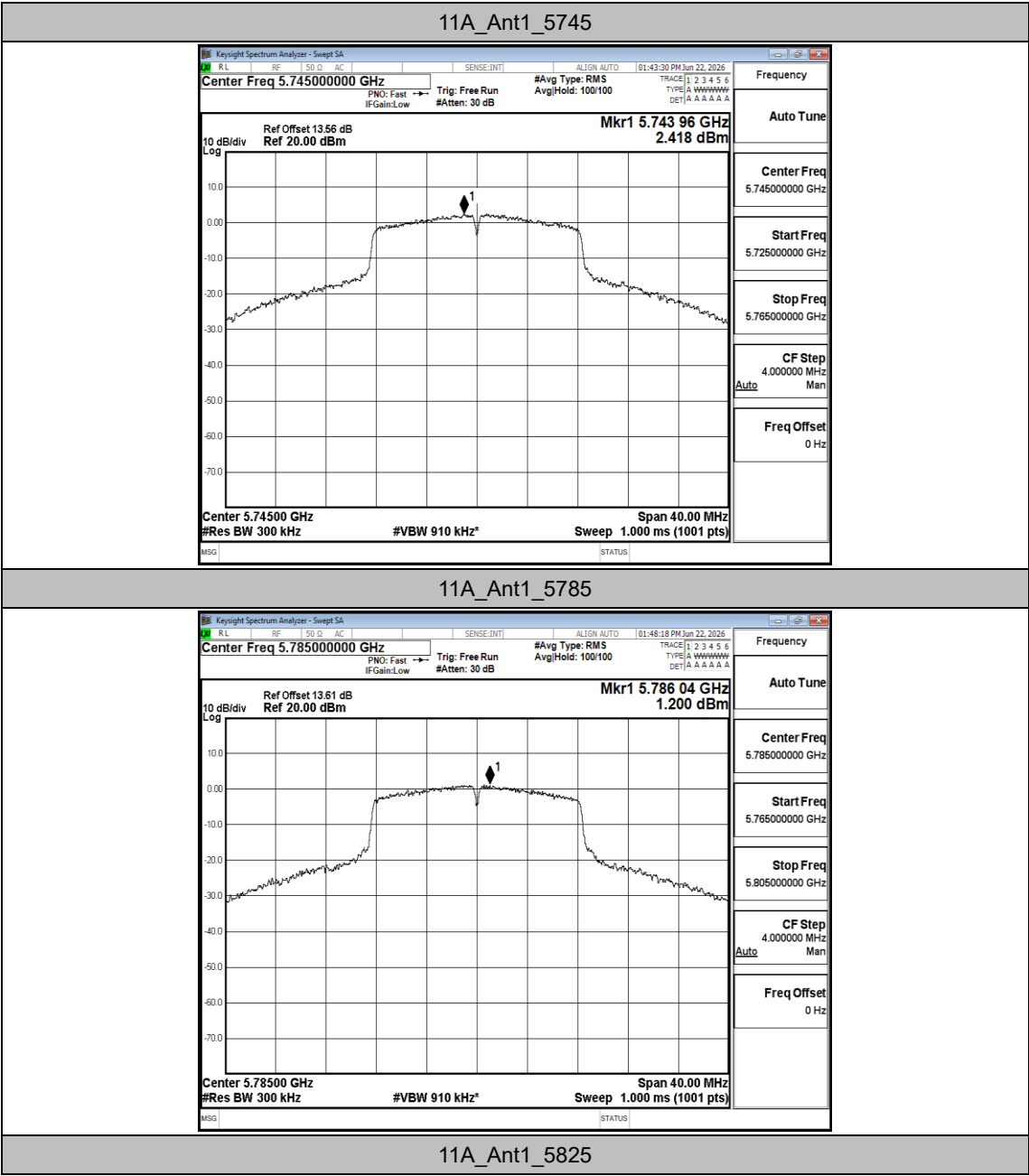
E.3 Maximum power spectral density

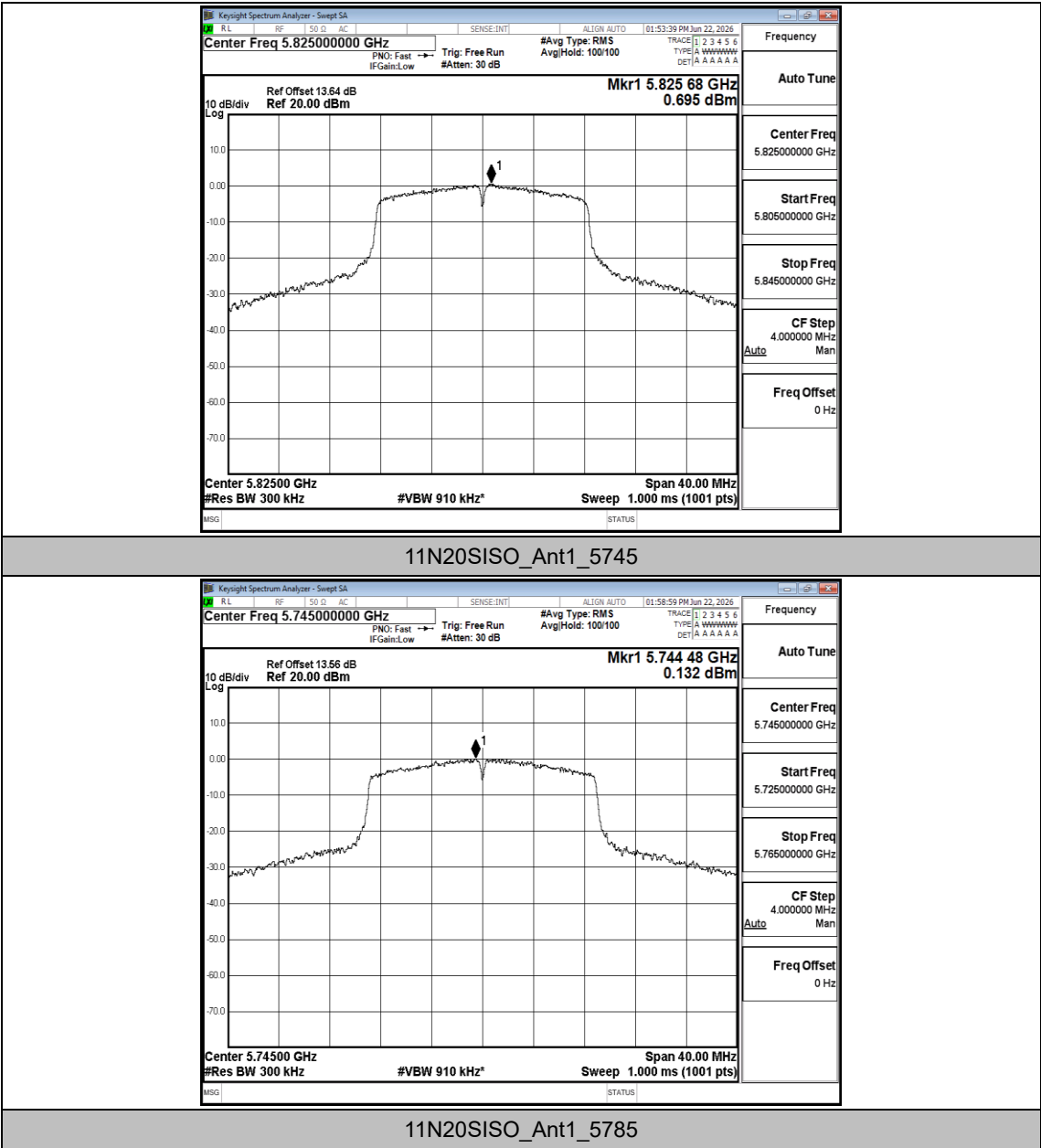
Test Result

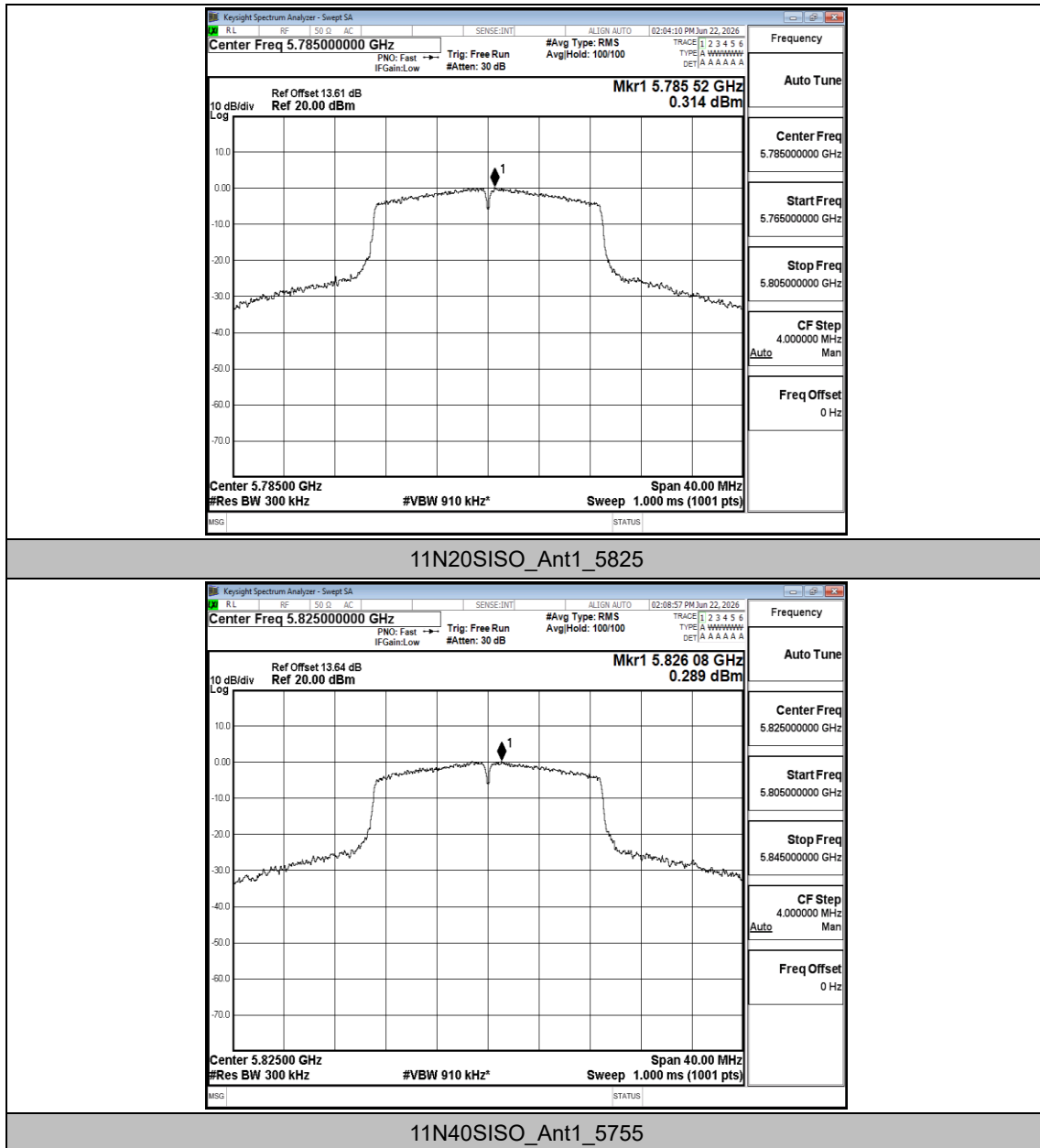
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	RBW Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5745	2.42	0.15	2.22	4.79	≤30.00	PASS
		5785	1.2	0.12	2.22	3.54	≤30.00	PASS
		5825	0.7	0.12	2.22	3.04	≤30.00	PASS
11N20SISO	Ant1	5745	0.13	0.16	2.22	2.51	≤30.00	PASS
		5785	0.31	0.13	2.22	2.66	≤30.00	PASS
		5825	0.29	0.16	2.22	2.67	≤30.00	PASS
11N40SISO	Ant1	5755	-2.35	0.26	2.22	0.13	≤30.00	PASS
		5795	-2.47	0.26	2.22	0.01	≤30.00	PASS
11AC20SISO	Ant1	5745	0.35	0.13	2.22	2.70	≤30.00	PASS
		5785	0.28	0.13	2.22	2.63	≤30.00	PASS
		5825	0.67	0.16	2.22	3.05	≤30.00	PASS
11AC40SISO	Ant1	5755	-2.69	0.26	2.22	-0.21	≤30.00	PASS
		5795	-2.53	0.26	2.22	-0.05	≤30.00	PASS
11AC80SISO	Ant1	5775	-6.49	0.50	2.22	-3.77	≤30.00	PASS

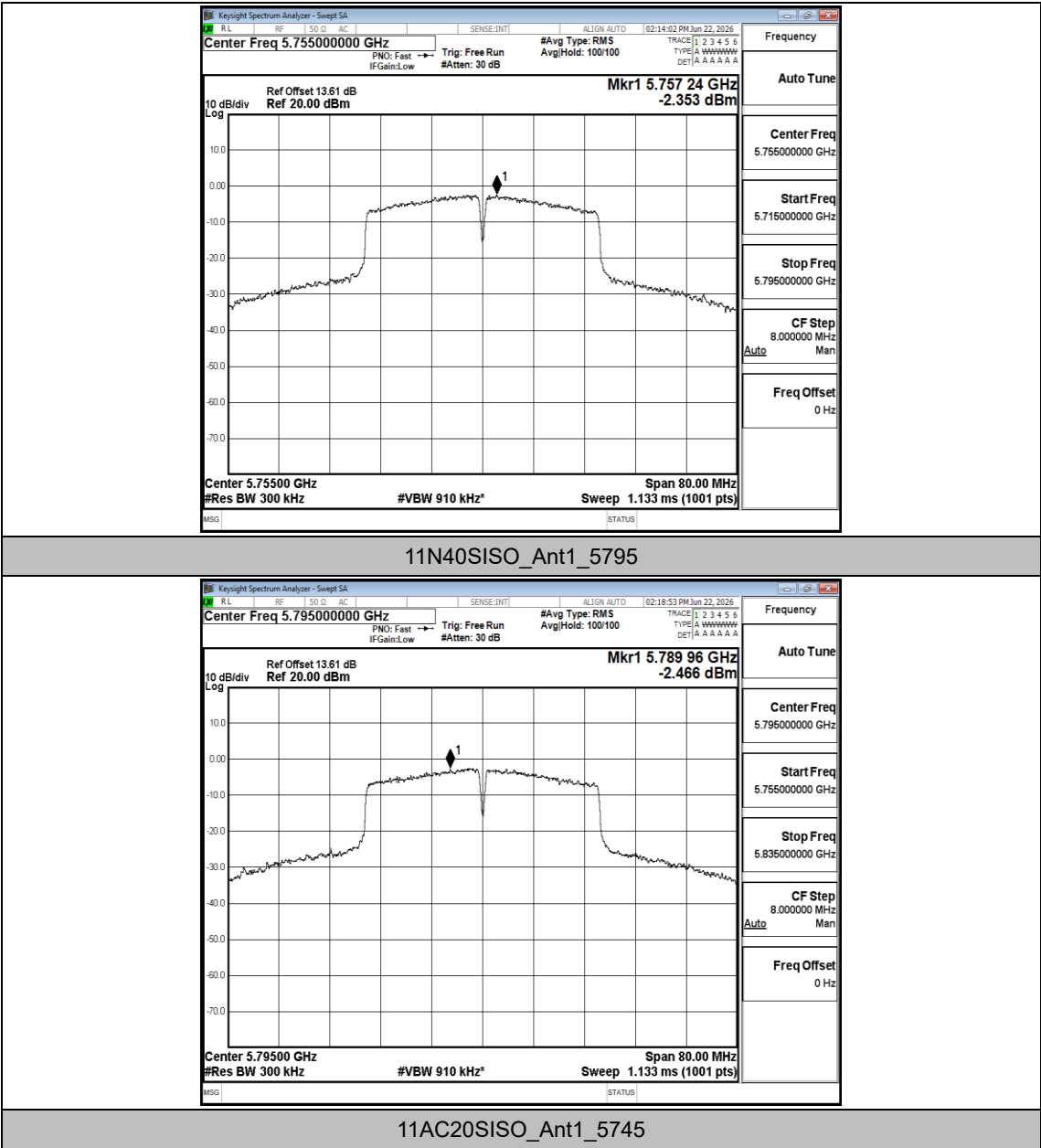
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

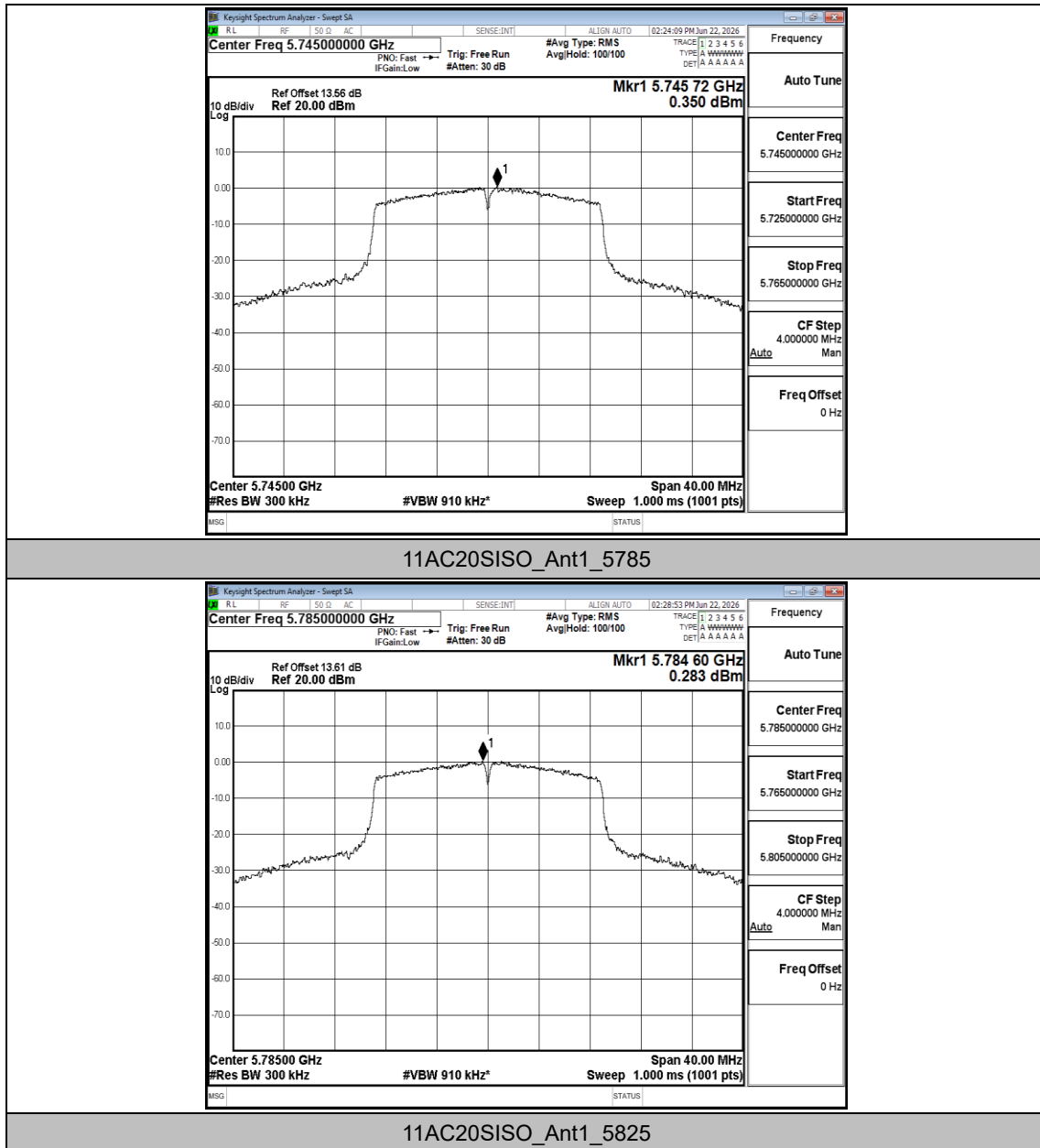
Test Graphs

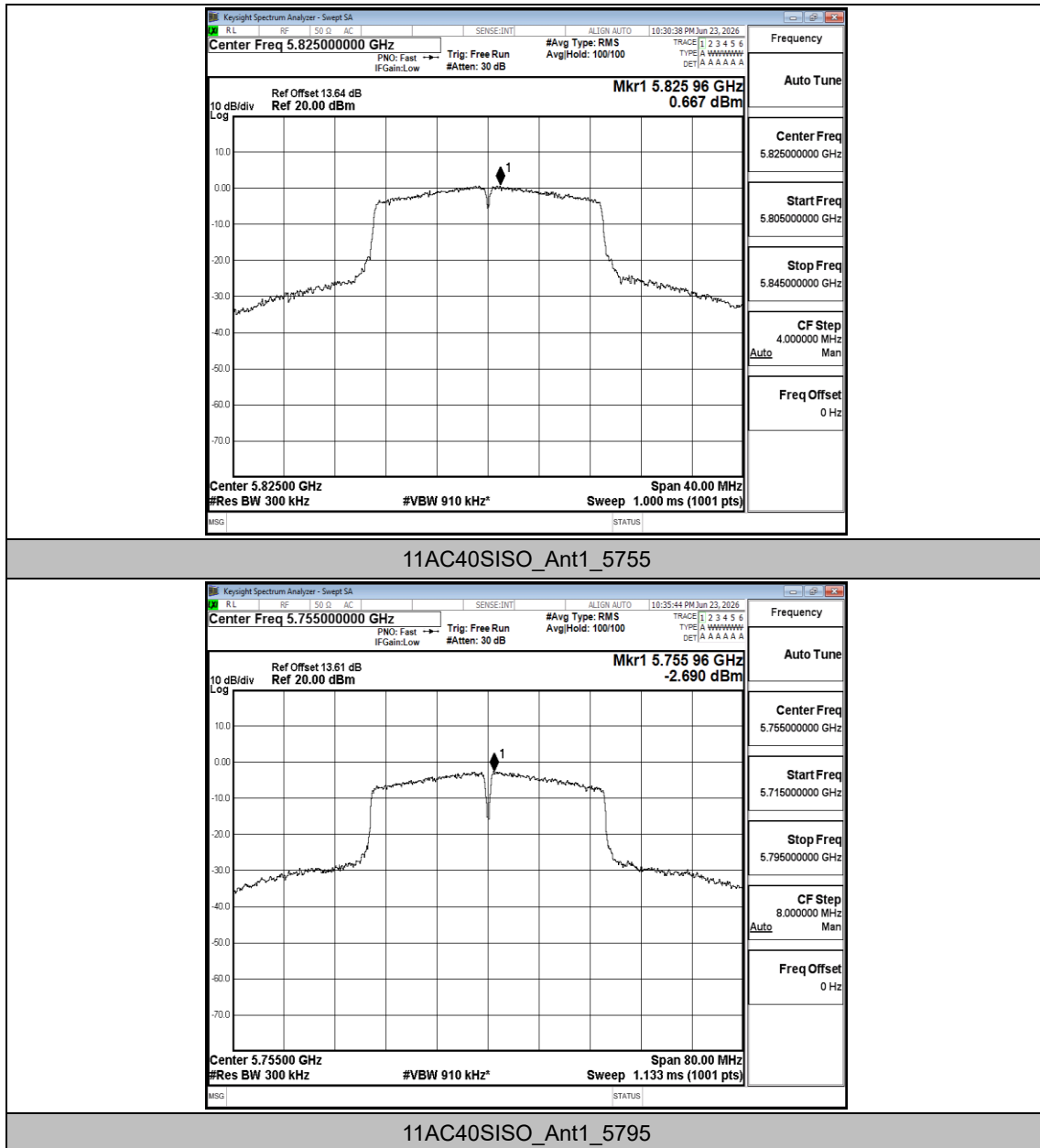


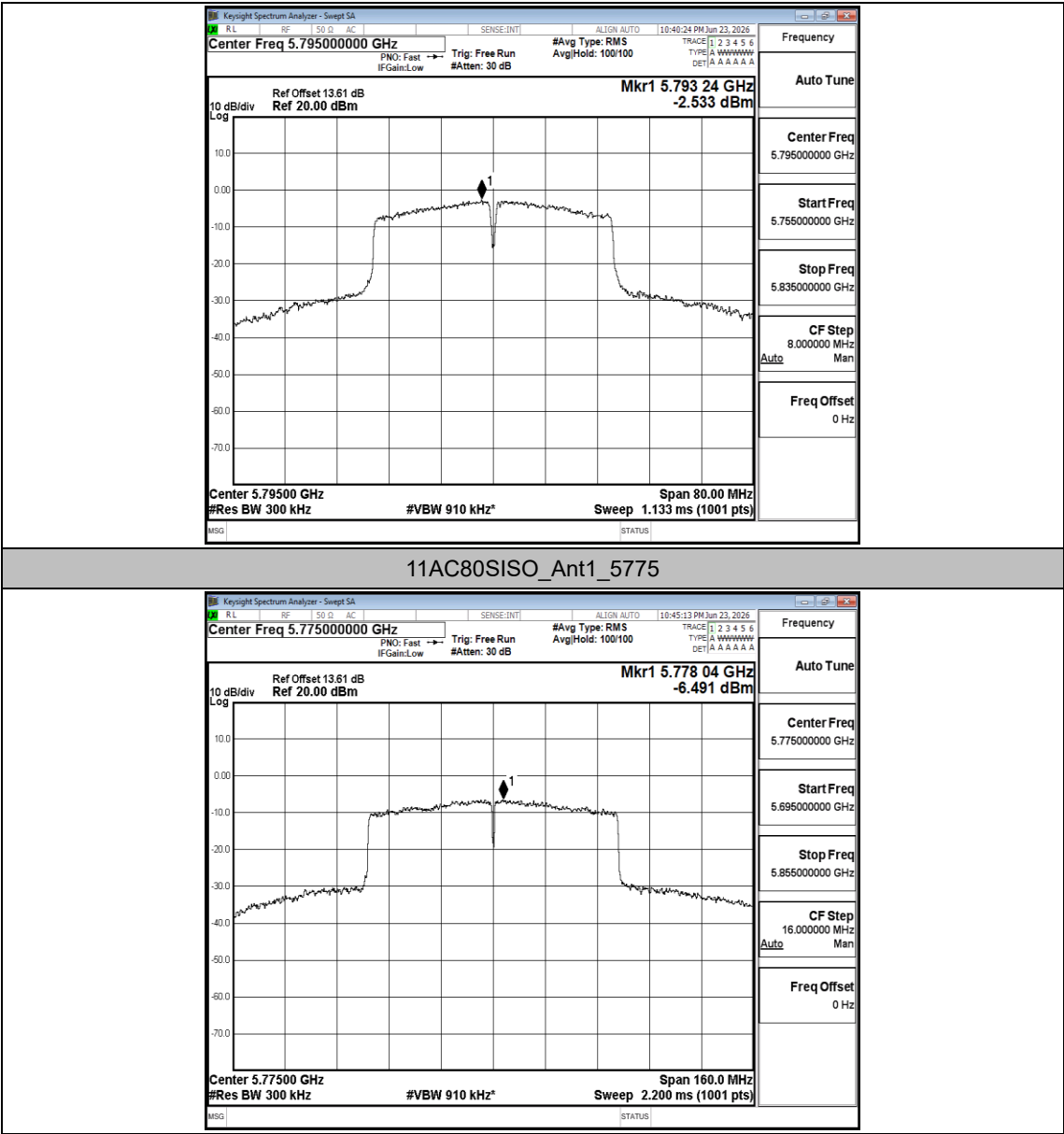












E.4 Emissions in Restricted Bands

Test Result

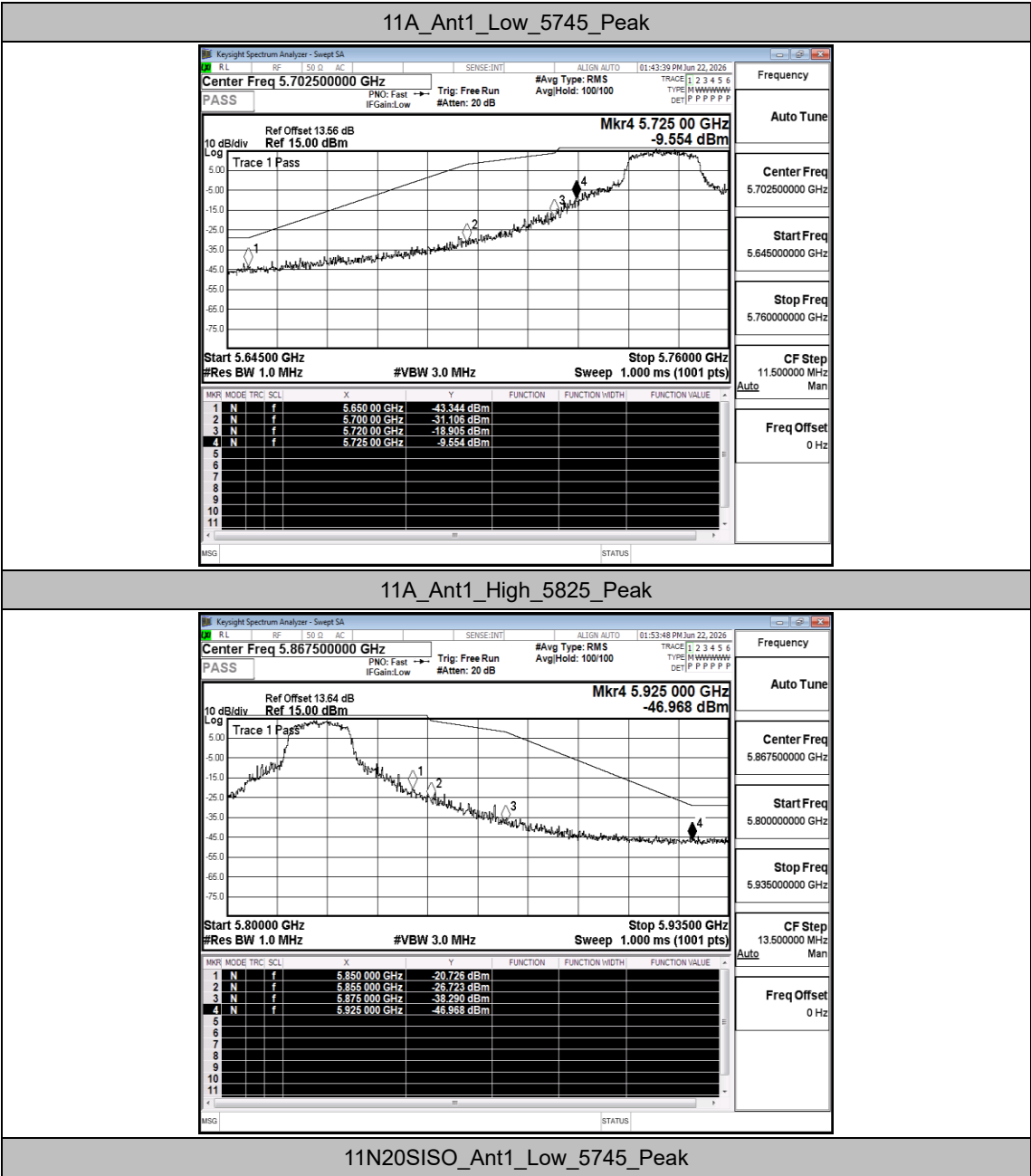
TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-43.344	≤-29.00	2.00	PASS
				Peak	5700.000	-31.11	≤8.00	2.00	PASS
				Peak	5720.000	-18.91	≤13.60	2.00	PASS
				Peak	5725.000	-9.55	≤25.00	2.00	PASS
		High	5825	Peak	5850.000	-20.726	≤25.00	2.00	PASS
				Peak	5855.000	-26.72	≤13.60	2.00	PASS
				Peak	5875.000	-38.29	≤8.00	2.00	PASS
				Peak	5925.000	-46.97	≤-27.00	2.00	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-45.045	≤-29.00	2.00	PASS
				Peak	5700.000	-35.36	≤8.00	2.00	PASS
				Peak	5720.000	-18	≤13.60	2.00	PASS
				Peak	5725.000	-16.12	≤25.00	2.00	PASS
		High	5825	Peak	5850.000	-21.765	≤25.00	2.00	PASS
				Peak	5855.000	-25.01	≤13.60	2.00	PASS
				Peak	5875.000	-36.33	≤8.00	2.00	PASS
				Peak	5925.000	-47.48	≤-27.00	2.00	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-40.353	≤-29.00	2.00	PASS
				Peak	5700.000	-27.07	≤8.00	2.00	PASS
				Peak	5720.000	-14.44	≤13.60	2.00	PASS
				Peak	5725.000	-13.26	≤25.00	2.00	PASS
		High	5795	Peak	5850.000	-25.214	≤25.00	2.00	PASS
				Peak	5855.000	-29.55	≤13.60	2.00	PASS
				Peak	5875.000	-34.06	≤8.00	2.00	PASS
				Peak	5925.000	-40.98	≤-27.00	2.00	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-45.735	≤-29.00	2.00	PASS
				Peak	5700.000	-36.11	≤8.00	2.00	PASS
				Peak	5720.000	-22.49	≤13.60	2.00	PASS
				Peak	5725.000	-13.12	≤25.00	2.00	PASS
		High	5825	Peak	5850.000	-24.986	≤25.00	2.00	PASS
				Peak	5855.000	-28.52	≤13.60	2.00	PASS
				Peak	5875.000	-36.44	≤8.00	2.00	PASS
				Peak	5925.000	-46.48	≤-27.00	2.00	PASS
11AC40SISO	Ant1	Low	5755	Peak	5650.000	-41.928	≤-29.00	2.00	PASS
				Peak	5700.000	-28.82	≤8.00	2.00	PASS
				Peak	5720.000	-16.45	≤13.60	2.00	PASS

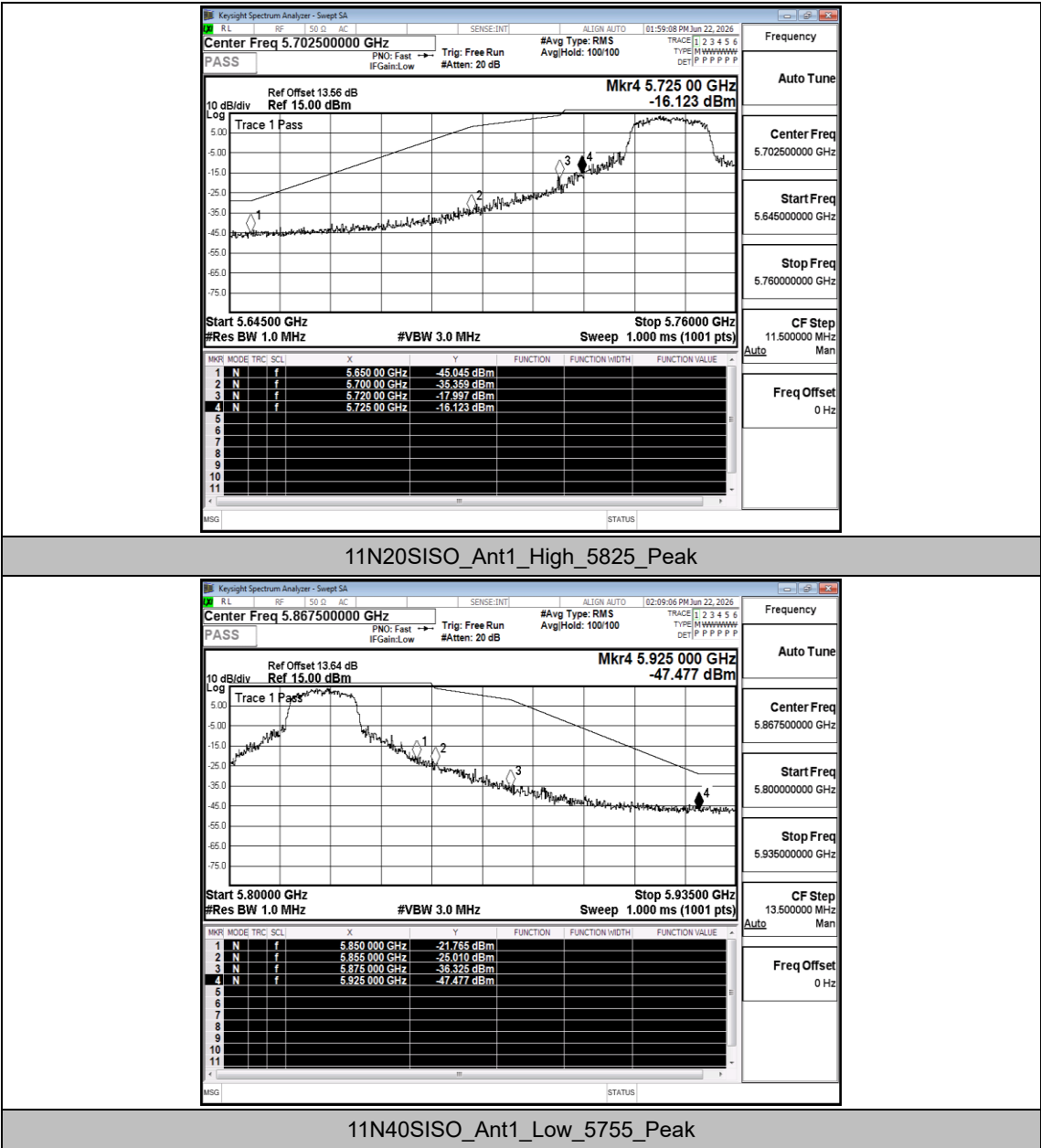
		High	5795	Peak	5725.000	-15.24	≤25.00	2.00	PASS
				Peak	5850.000	-26.703	≤25.00	2.00	PASS
				Peak	5855.000	-29.14	≤13.60	2.00	PASS
				Peak	5875.000	-32	≤8.00	2.00	PASS
				Peak	5925.000	-43.34	≤-27.00	2.00	PASS
11AC80SISO	Ant1	Low	5775	Peak	5650.000	-35.704	≤-29.00	2.00	PASS
				Peak	5700.000	-18.02	≤8.00	2.00	PASS
				Peak	5720.000	-11.12	≤13.60	2.00	PASS
				Peak	5725.000	-17.33	≤25.00	2.00	PASS
		High	5775	Peak	5850.000	-19.824	≤25.00	2.00	PASS
				Peak	5855.000	-19.25	≤13.60	2.00	PASS
				Peak	5875.000	-24.65	≤8.00	2.00	PASS
				Peak	5925.000	-32	≤-27.00	2.00	PASS

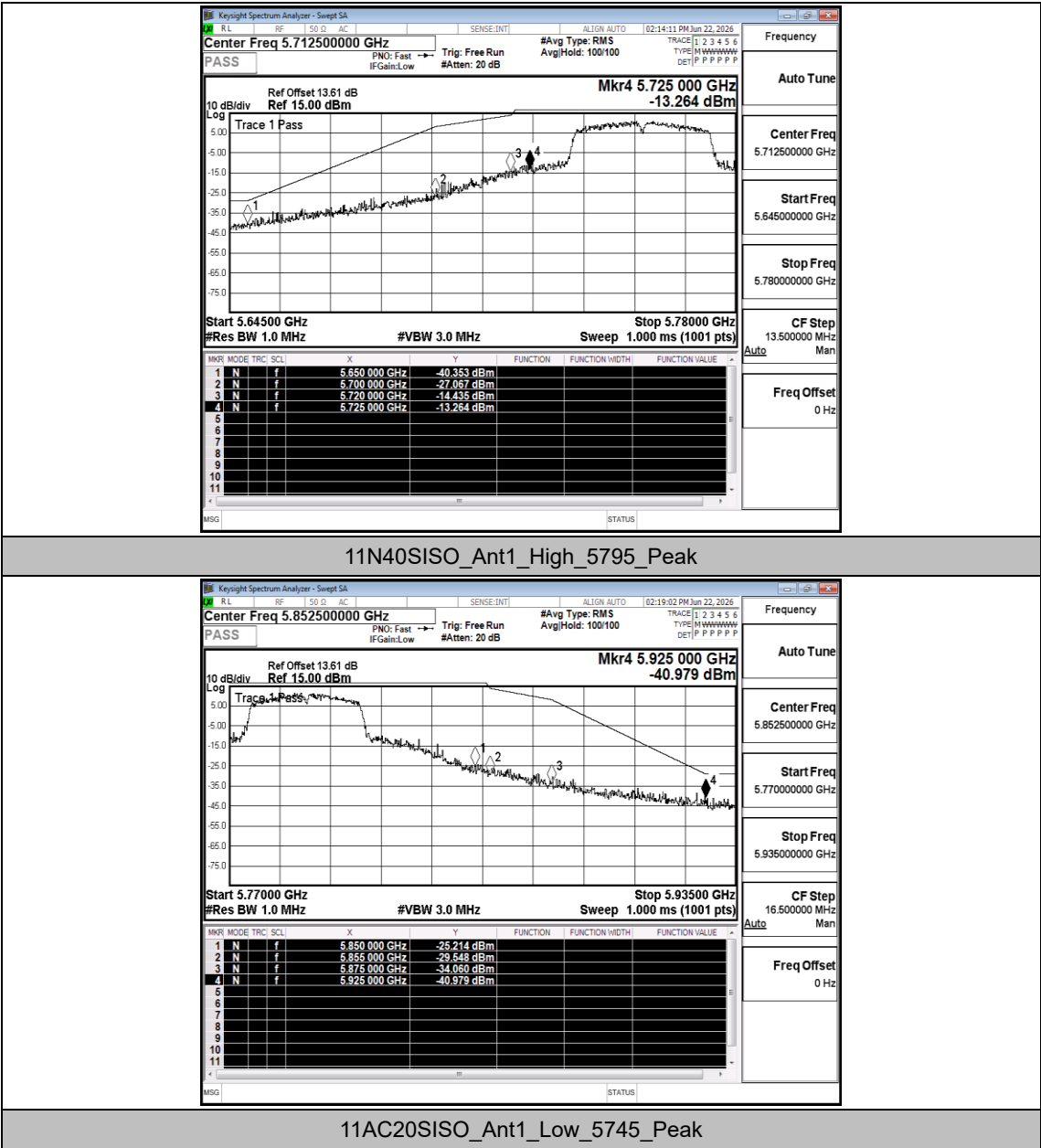
Note:

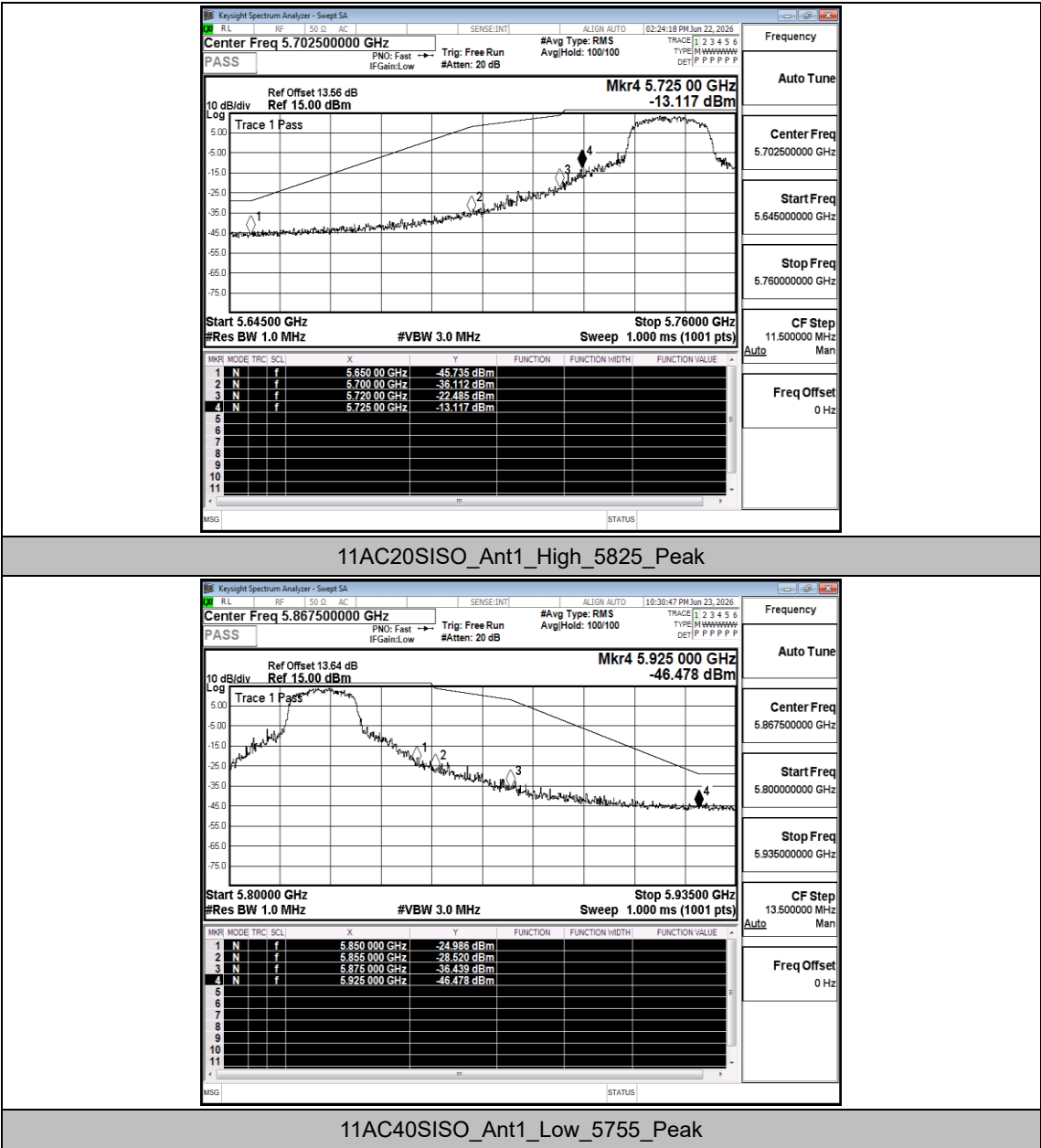
1. The Antenna Gain is compensated in the graph.

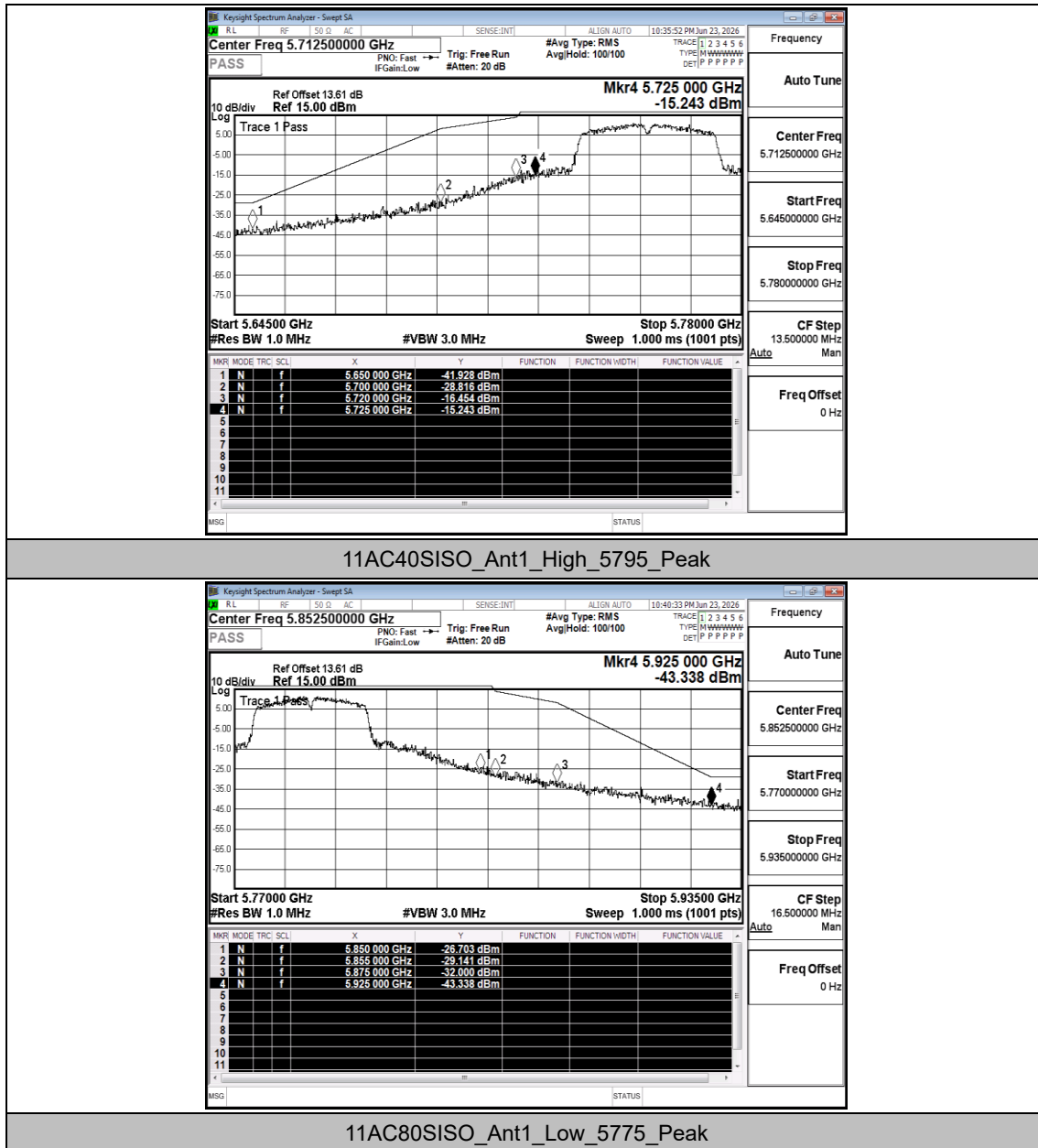
Test Graphs

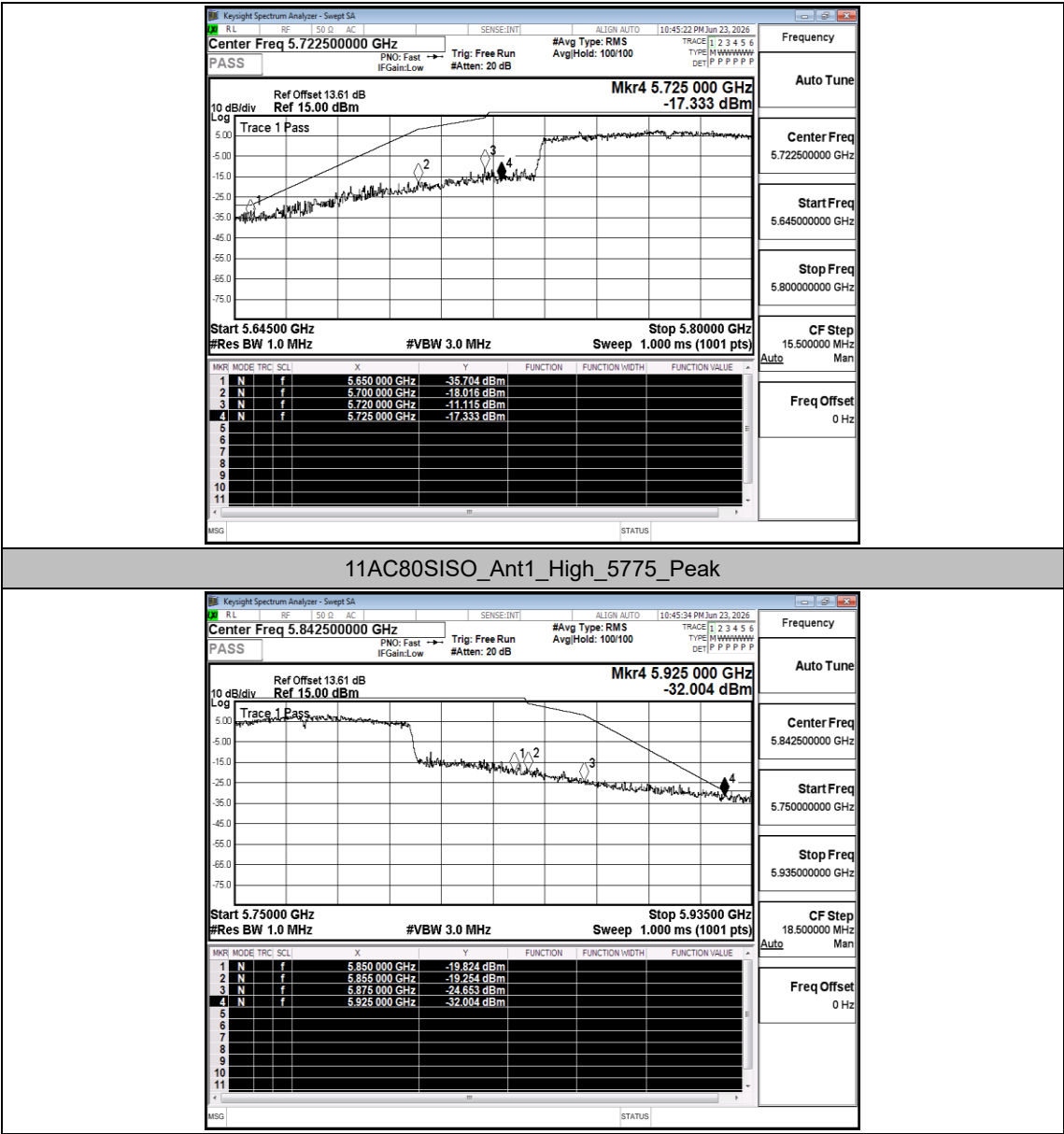












E.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Freq (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5745	NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	-40000.00	-6.962576	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5785	NV	NT	-40000.00	-6.914434	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.457217	20	PASS
		5825	NV	NT	-20000.00	-3.433476	20	PASS
			LV	NT	-20000.00	-3.433476	20	PASS
			HV	NT	-20000.00	-3.433476	20	PASS
11N20SISO	Ant1	5745	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.481288	20	PASS
		5785	NV	NT	-20000.00	-3.457217	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.457217	20	PASS
		5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11N40SISO	Ant1	5755	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-6.950478	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5795	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-6.902502	20	PASS
11AC20SISO	Ant1	5745	NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.481288	20	PASS
		5785	NV	NT	-20000.00	-3.457217	20	PASS
			LV	NT	-20000.00	-3.457217	20	PASS
			HV	NT	-20000.00	-3.457217	20	PASS
		5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.433476	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC40SISO	Ant1	5755	NV	NT	-40000.00	-6.950478	20	PASS

		5795	LV	NT	-40000.00	-6.950478	20	PASS
			HV	NT	-40000.00	-6.950478	20	PASS
			NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC80SISO	Ant1	5775	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS

Temperature								
TestMode	Antenna	Freq(M Hz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5745	NV	-30	-40000.00	-6.962576	20	PASS
			NV	-20	-20000.00	-3.481288	20	PASS
			NV	-10	-20000.00	-3.481288	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	-20000.00	-3.481288	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.481288	20	PASS
			NV	50	-40000.00	-6.962576	20	PASS
		5785	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.457217	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.457217	20	PASS
			NV	10	-20000.00	-3.457217	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.457217	20	PASS
			NV	40	-40000.00	-6.914434	20	PASS
			NV	50	-20000.00	-3.457217	20	PASS
		5825	NV	-30	-20000.00	-3.433476	20	PASS
			NV	-20	-20000.00	-3.433476	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.433476	20	PASS
			NV	10	-20000.00	-3.433476	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-40000.00	-6.866953	20	PASS
			NV	40	-20000.00	-3.433476	20	PASS
			NV	50	-20000.00	-3.433476	20	PASS
11N20SISO	Ant1	5745	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-20000.00	-3.481288	20	PASS

			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.481288	20	PASS
			NV	40	-20000.00	-3.481288	20	PASS
			NV	50	-20000.00	-3.481288	20	PASS
		5785	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-40000.00	-6.914434	20	PASS
			NV	-10	-20000.00	-3.457217	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.457217	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.457217	20	PASS
		5825	NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	-30	-20000.00	-3.433476	20	PASS
			NV	-20	-20000.00	-3.433476	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-6.866953	20	PASS
			NV	10	-20000.00	-3.433476	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.433476	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
11N40SISO	Ant1	5755	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-40000.00	-6.950478	20	PASS
			NV	-10	-40000.00	-6.950478	20	PASS
			NV	0	-40000.00	-6.950478	20	PASS
			NV	10	-40000.00	-6.950478	20	PASS
			NV	20	-40000.00	-6.950478	20	PASS
			NV	30	0.00	0.000000	20	PASS
		5795	NV	40	0.00	0.000000	20	PASS
			NV	50	-40000.00	-6.950478	20	PASS
			NV	-30	0.00	0.000000	20	PASS
			NV	-20	-40000.00	-6.902502	20	PASS
			NV	-10	-40000.00	-6.902502	20	PASS
			NV	0	-40000.00	-6.902502	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-40000.00	-6.902502	20	PASS

			NV	40	-40000.00	-6.902502	20	PASS
			NV	50	-40000.00	-6.902502	20	PASS
11AC20SISO	Ant1	5745	NV	-30	20000.00	3.481288	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-20000.00	-3.481288	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	-20000.00	-3.481288	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-20000.00	-3.481288	20	PASS
			NV	40	-20000.00	-3.481288	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5785	NV	-30	-20000.00	-3.457217	20	PASS
			NV	-20	-20000.00	-3.457217	20	PASS
			NV	-10	-20000.00	-3.457217	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.457217	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5825	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.433476	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.433476	20	PASS
			NV	50	0.00	0.000000	20	PASS
11AC40SISO	Ant1	5755	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	6.950478	20	PASS
			NV	0	40000.00	6.950478	20	PASS
			NV	10	-40000.00	-6.950478	20	PASS
			NV	20	40000.00	6.950478	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	6.950478	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5795	NV	-30	40000.00	6.902502	20	PASS
			NV	-20	40000.00	6.902502	20	PASS
			NV	-10	40000.00	6.902502	20	PASS

			NV	0	0.00	0.000000	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	40000.00	6.902502	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-40000.00	-6.902502	20	PASS
			NV	50	0.00	0.000000	20	PASS
11AC80SISO	Ant1	5775	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	80000.00	13.852814	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	0.00	0.000000	20	PASS

E.6 Duty Cycle

Test Result

TestMode	Antenna	Freq (MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor	Limit	Verdict
11A	Ant1	5745	1.39	1.44	96.53	0.15	---	---
		5785	1.39	1.43	97.20	0.12	---	---
		5825	1.39	1.43	97.20	0.12	---	---
11N20SISO	Ant1	5745	1.30	1.35	96.30	0.16	---	---
		5785	1.30	1.34	97.01	0.13	---	---
		5825	1.30	1.35	96.30	0.16	---	---
11N40SISO	Ant1	5755	0.65	0.69	94.20	0.26	---	---
		5795	0.65	0.69	94.20	0.26	---	---
11AC20SISO	Ant1	5745	1.32	1.36	97.06	0.13	---	---
		5785	1.31	1.35	97.04	0.13	---	---
		5825	1.31	1.36	96.32	0.16	---	---
11AC40SISO	Ant1	5755	0.66	0.70	94.29	0.26	---	---
		5795	0.65	0.69	94.20	0.26	---	---
11AC80SISO	Ant1	5775	0.33	0.37	89.19	0.50	---	---

Test Graphs

