

Appendix E

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: Tablet

Test Model: H9190L

Environmental Conditions

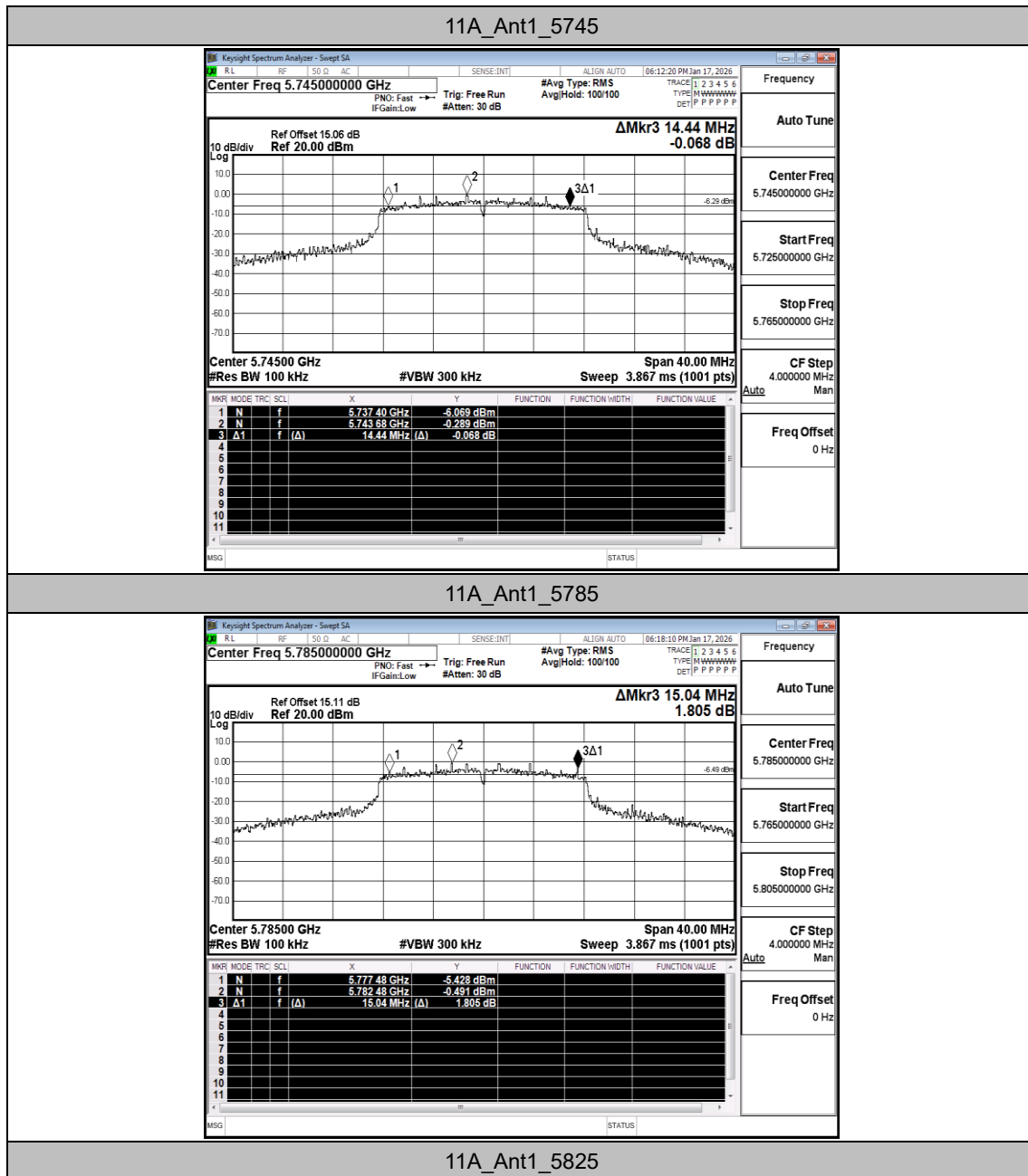
Temperature:	23.5°C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

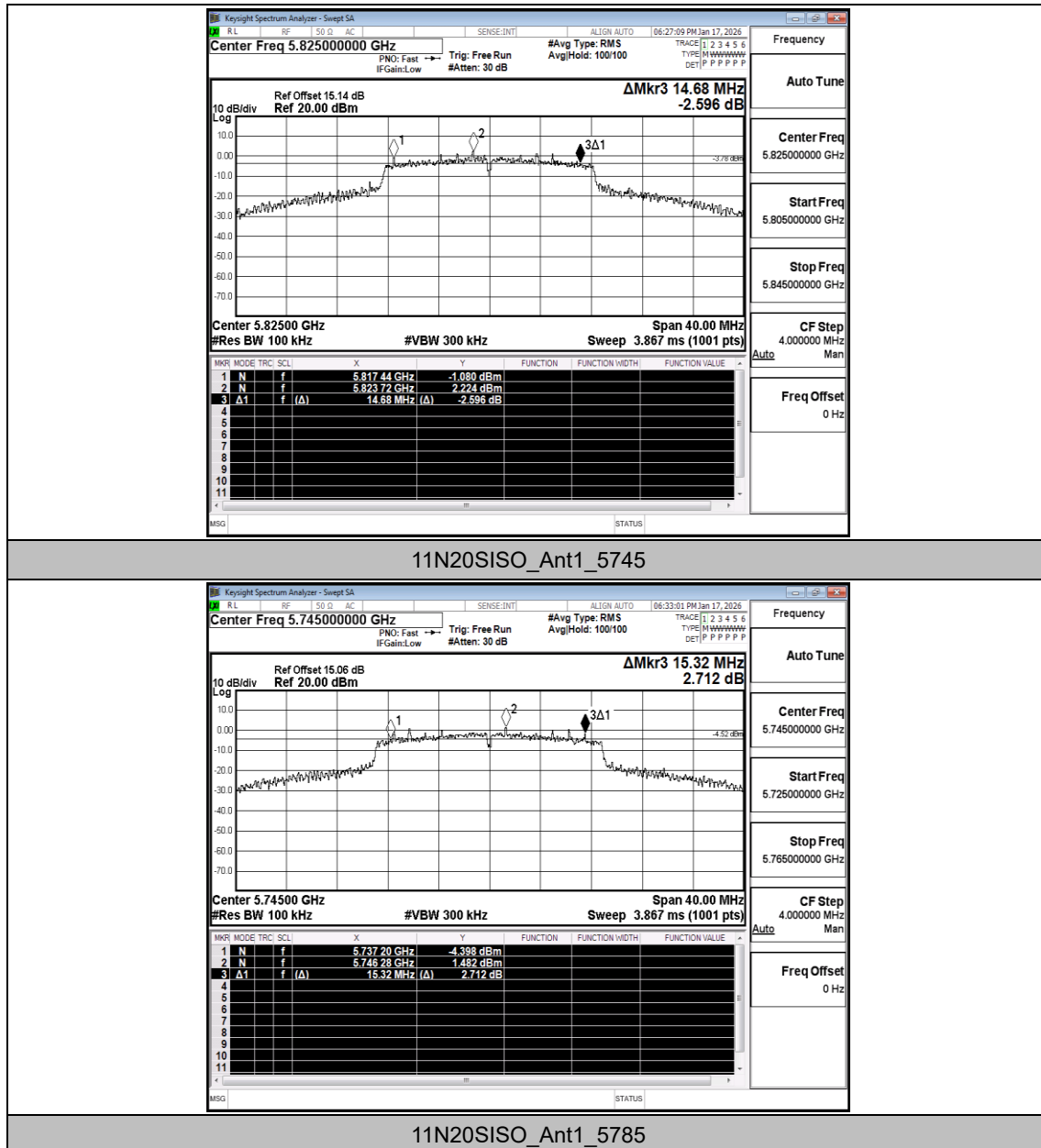
E.1 Emission Bandwidth

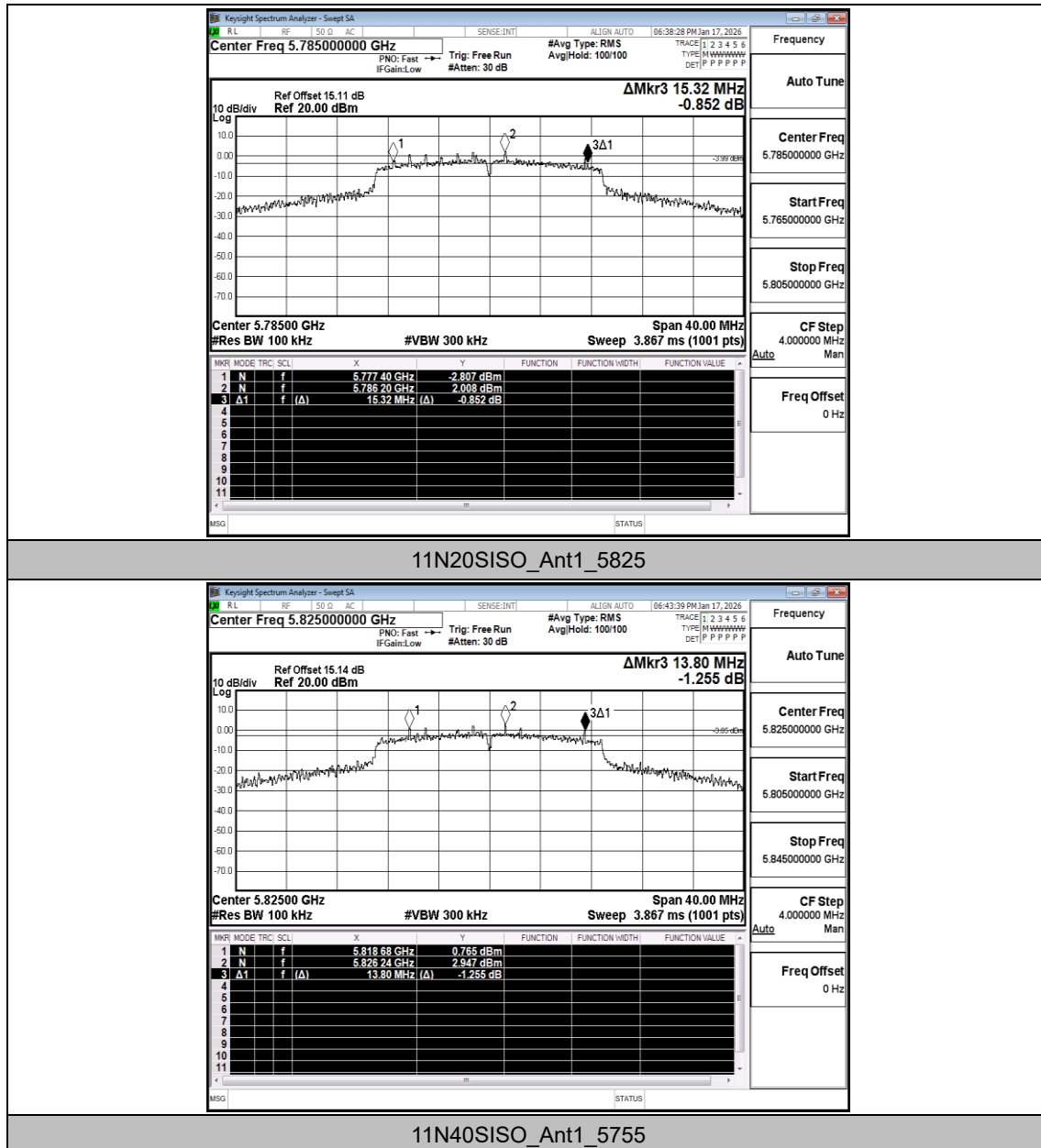
Test Result

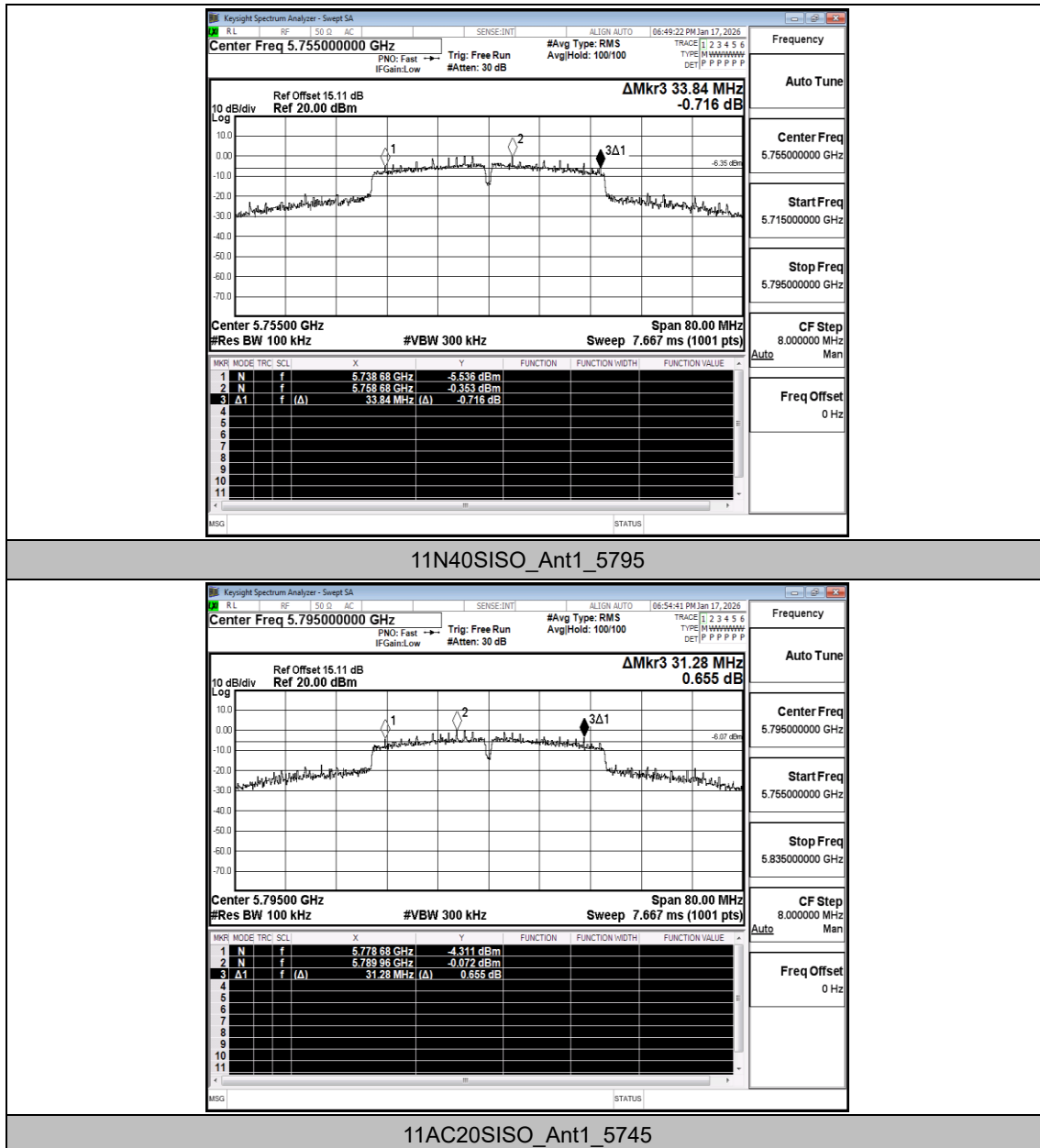
TestMode	Antenna	Freq (MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	14.440	5737.400	5751.840	0.5	PASS
		5785	15.040	5777.480	5792.520	0.5	PASS
		5825	14.680	5817.440	5832.120	0.5	PASS
11N20SISO	Ant1	5745	15.320	5737.200	5752.520	0.5	PASS
		5785	15.320	5777.400	5792.720	0.5	PASS
		5825	13.800	5818.680	5832.480	0.5	PASS
11N40SISO	Ant1	5755	33.840	5738.680	5772.520	0.5	PASS
		5795	31.280	5778.680	5809.960	0.5	PASS
11AC20SISO	Ant1	5745	12.640	5738.640	5751.280	0.5	PASS
		5785	15.040	5777.480	5792.520	0.5	PASS
		5825	15.400	5817.120	5832.520	0.5	PASS
11AC40SISO	Ant1	5755	31.200	5737.480	5768.680	0.5	PASS
		5795	33.760	5777.480	5811.240	0.5	PASS
11AC80SISO	Ant1	5775	75.040	5737.400	5812.440	0.5	PASS

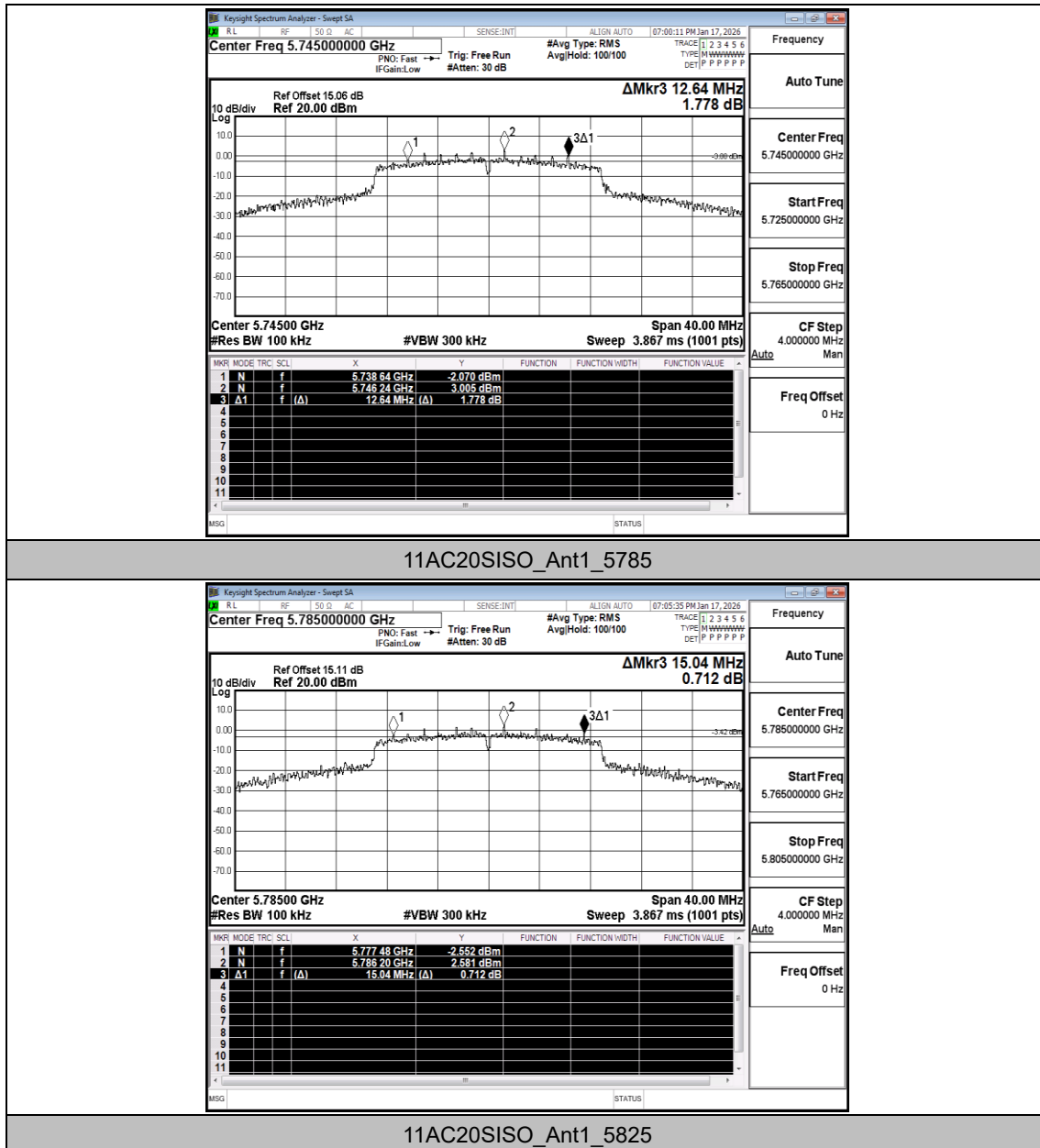
Test Graphs

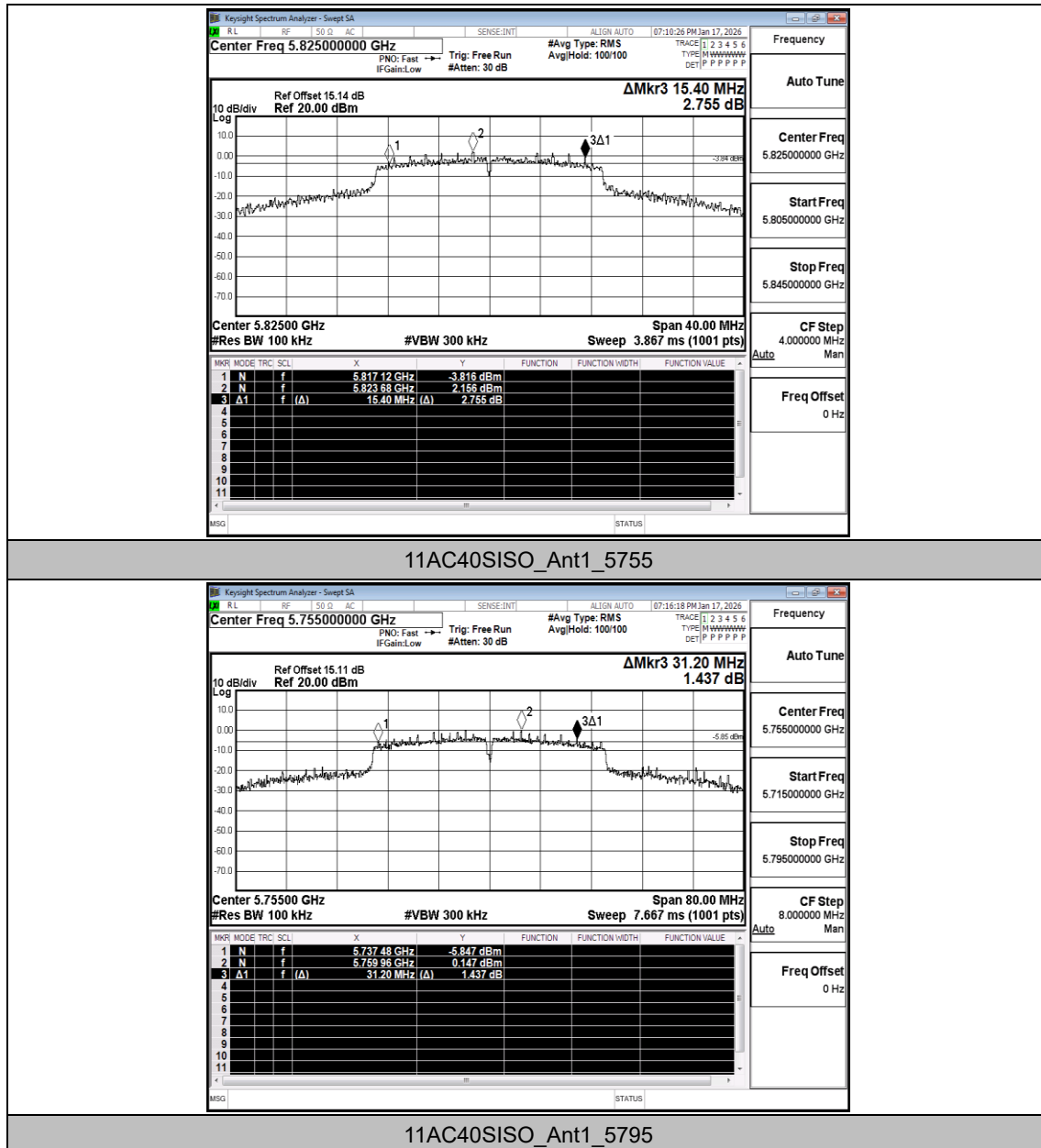


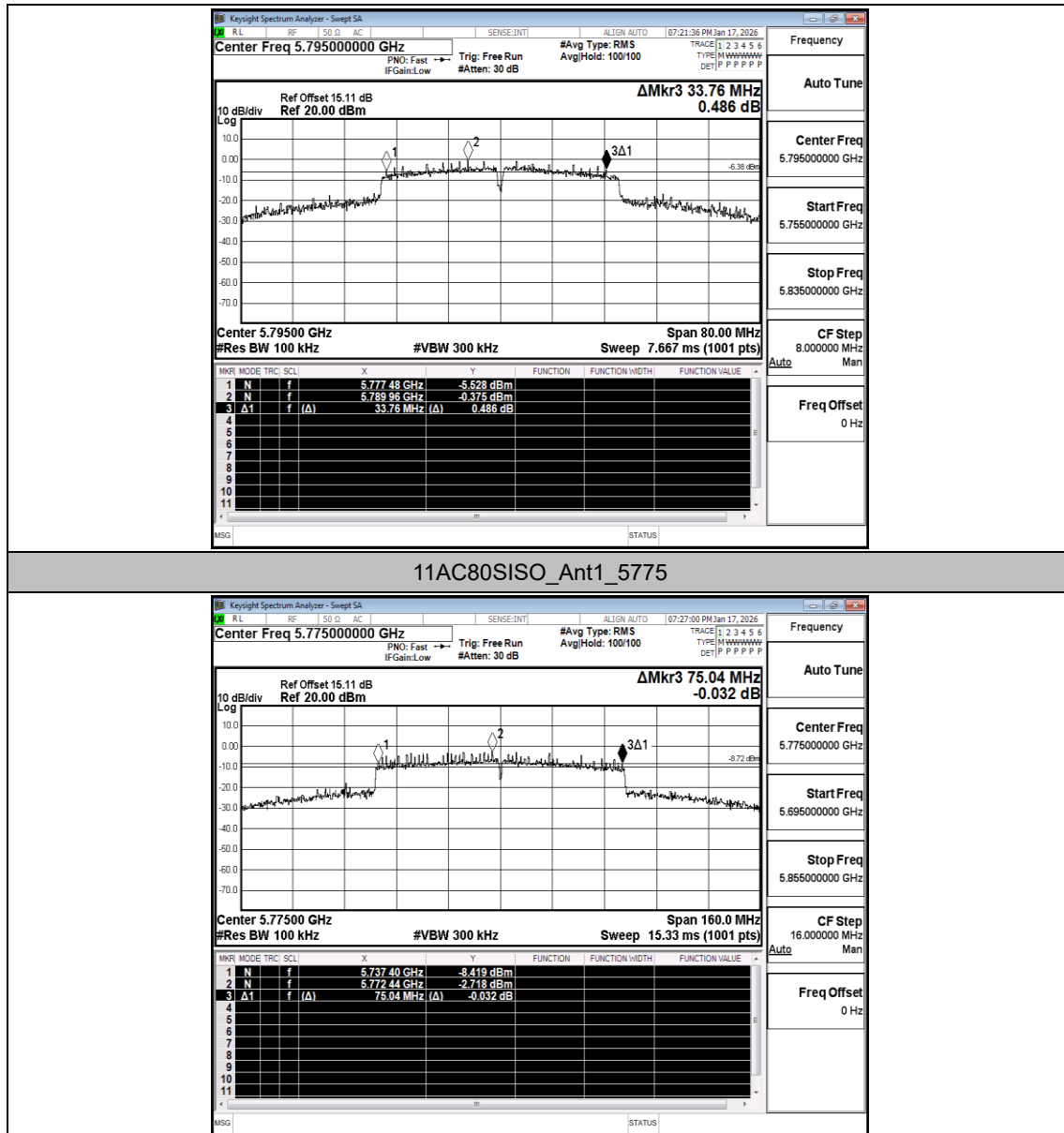












E.2 Maximum conducted output power

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	11.97	0.12	12.09	≤30.00	PASS
		5785	NA	11.68	0.15	11.83	≤30.00	PASS
		5825	NA	13.64	0.15	13.79	≤30.00	PASS
11N20SISO	Ant1	5745	NA	13.29	0.16	13.45	≤30.00	PASS
		5785	NA	13.31	0.17	13.48	≤30.00	PASS
		5825	NA	13.59	0.16	13.75	≤30.00	PASS
11N40SISO	Ant1	5755	NA	13.73	0.26	13.99	≤30.00	PASS
		5795	NA	13.72	0.26	13.98	≤30.00	PASS
11AC20SISO	Ant1	5745	NA	13.37	0.13	13.50	≤30.00	PASS
		5785	NA	13.46	0.13	13.59	≤30.00	PASS
		5825	NA	13.68	0.16	13.84	≤30.00	PASS
11AC40SISO	Ant1	5755	NA	13.84	0.26	14.10	≤30.00	PASS
		5795	NA	13.80	0.26	14.06	≤30.00	PASS
11AC80SISO	Ant1	5775	NA	13.49	0.51	14.00	≤30.00	PASS

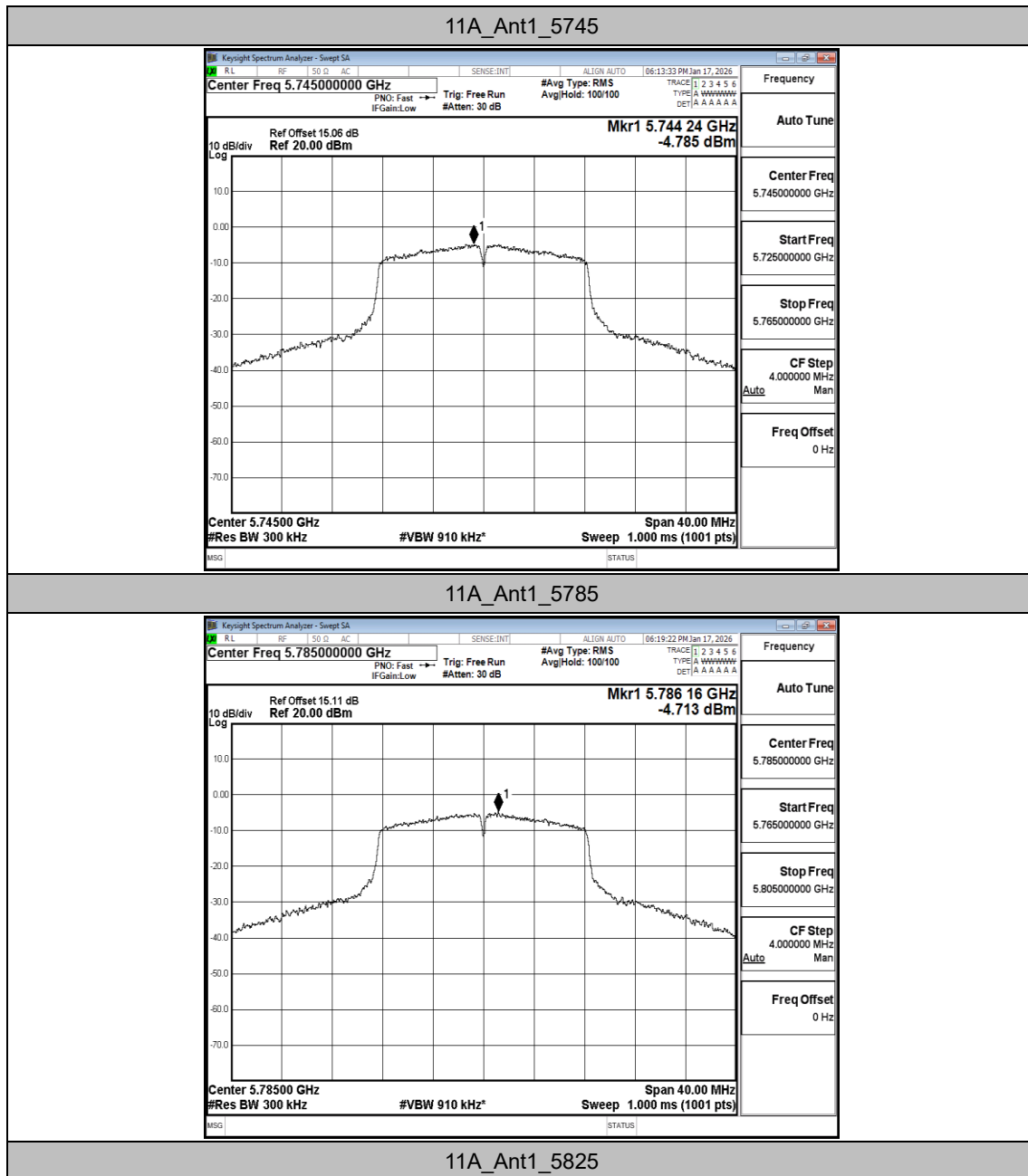
E.3 Maximum power spectral density

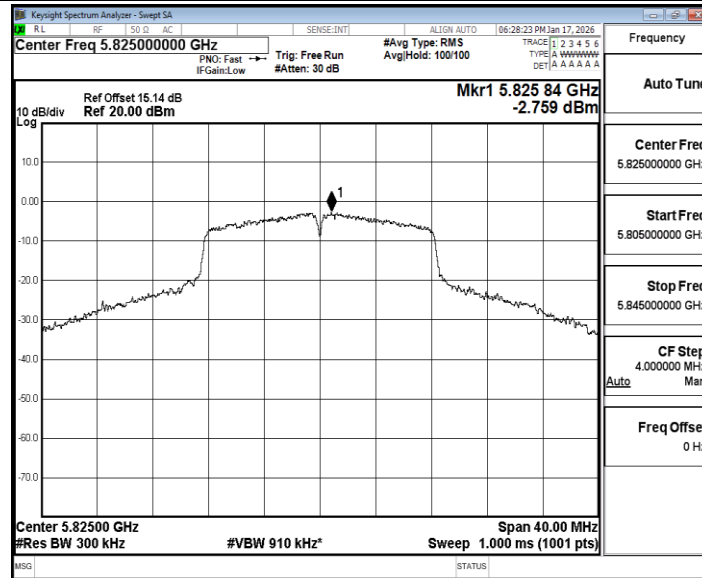
Test Result

TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	RBW Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5745	-4.79	0.12	2.22	-2.45	≤30.00	PASS
		5785	-4.71	0.15	2.22	-2.34	≤30.00	PASS
		5825	-2.76	0.15	2.22	-0.39	≤30.00	PASS
11N20SISO	Ant1	5745	-3.35	0.16	2.22	-0.97	≤30.00	PASS
		5785	-3.76	0.17	2.22	-1.37	≤30.00	PASS
		5825	-3.04	0.16	2.22	-0.66	≤30.00	PASS
11N40SISO	Ant1	5755	-5.9	0.26	2.22	-3.42	≤30.00	PASS
		5795	-6.36	0.26	2.22	-3.88	≤30.00	PASS
11AC20SISO	Ant1	5745	-3.08	0.13	2.22	-0.73	≤30.00	PASS
		5785	-3.37	0.13	2.22	-1.02	≤30.00	PASS
		5825	-2.95	0.16	2.22	-0.57	≤30.00	PASS
11AC40SISO	Ant1	5755	-5.55	0.26	2.22	-3.07	≤30.00	PASS
		5795	-5.97	0.26	2.22	-3.49	≤30.00	PASS
11AC80SISO	Ant1	5775	-9.11	0.51	2.22	-6.38	≤30.00	PASS

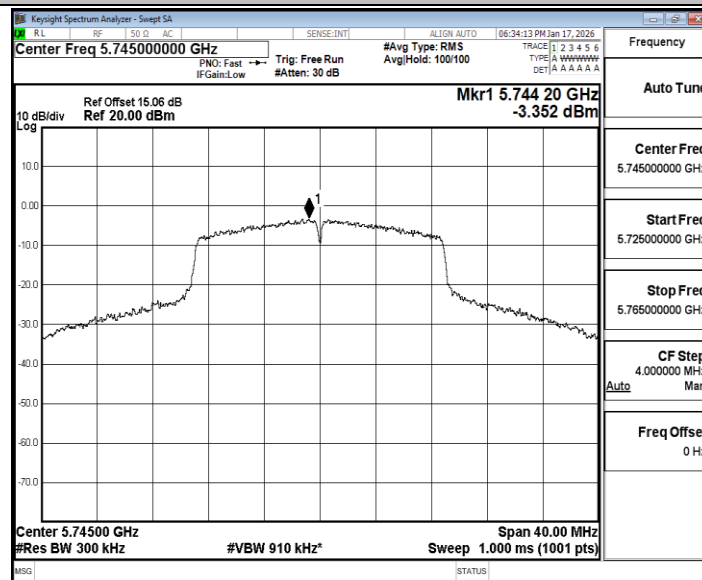
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

Test Graphs

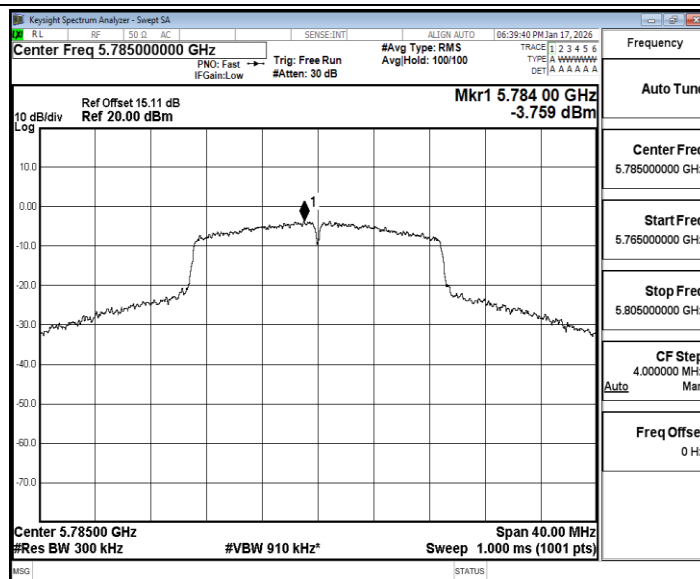




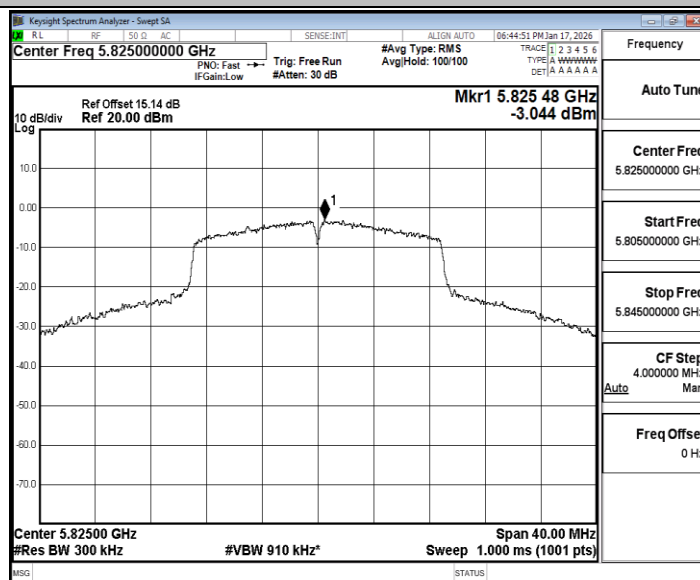
11N20SISO_Ant1_5745



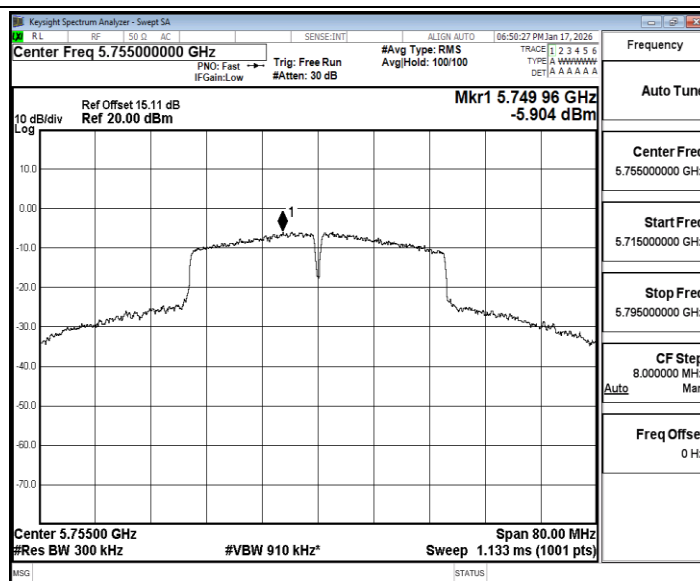
11N20SISO_Ant1_5785



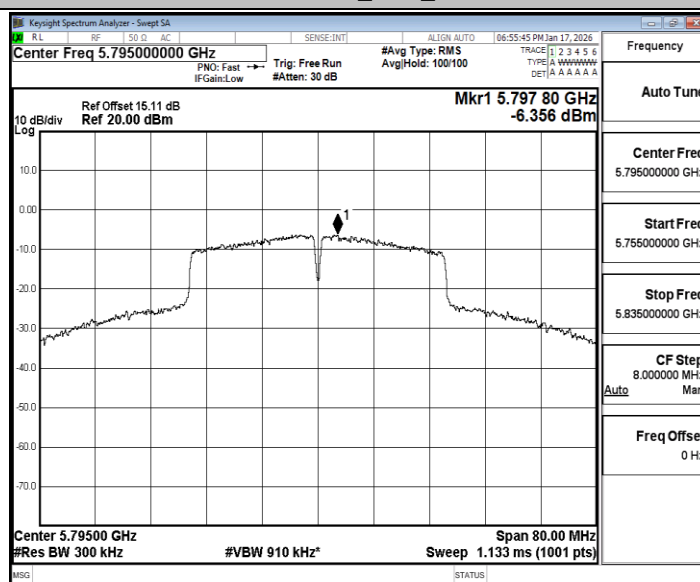
11N20SISO_Ant1_5825



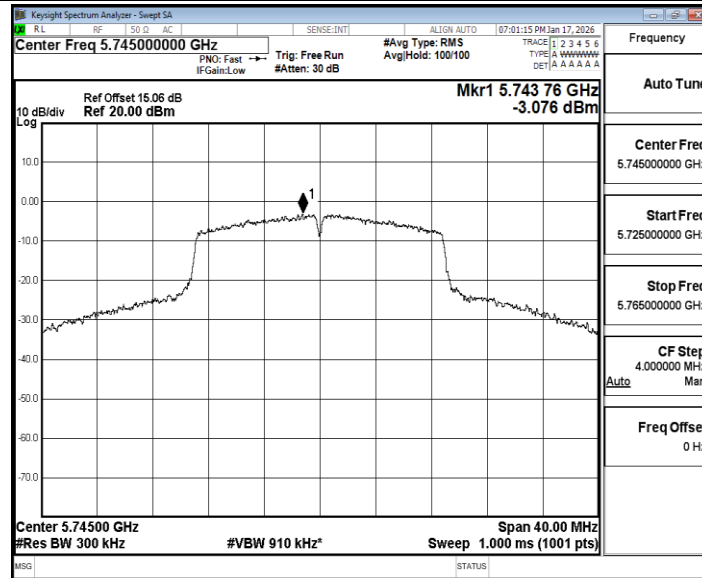
11N40SISO_Ant1_5755



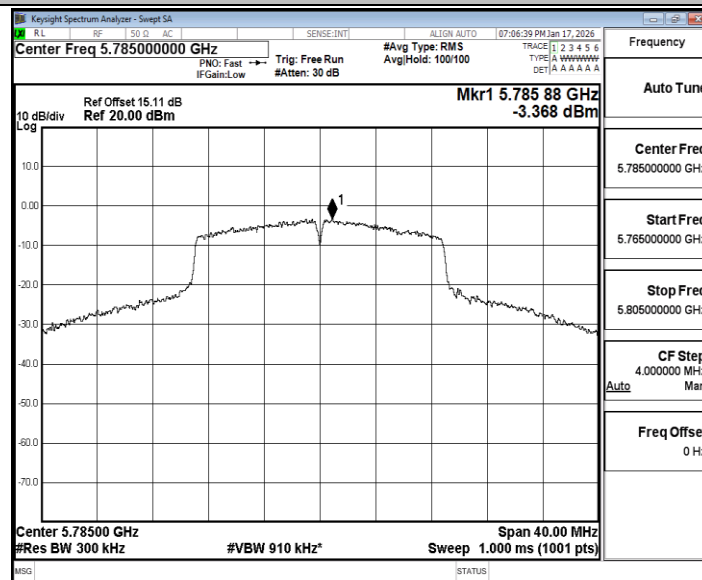
11N40SISO_Ant1_5795



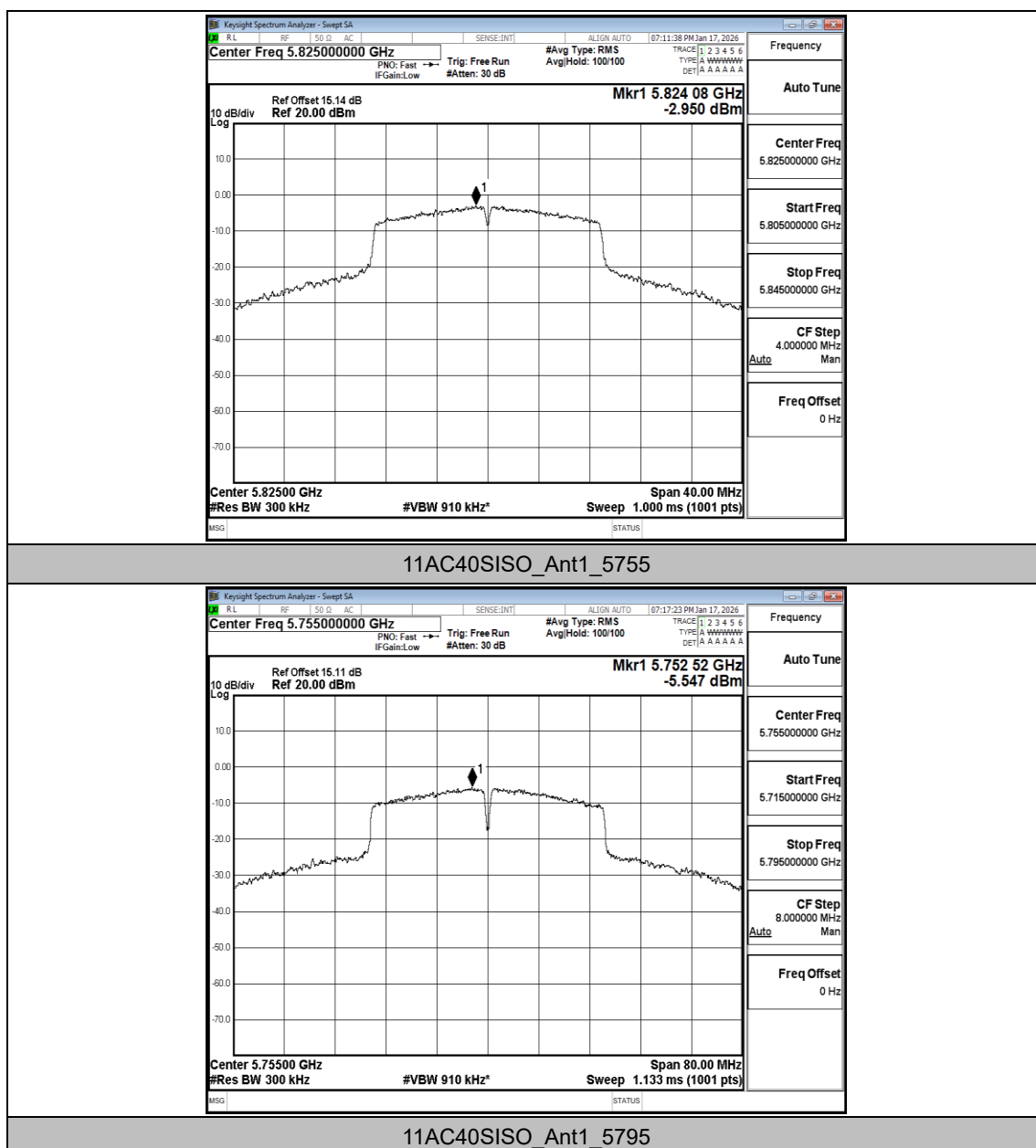
11AC20SISO_Ant1_5745

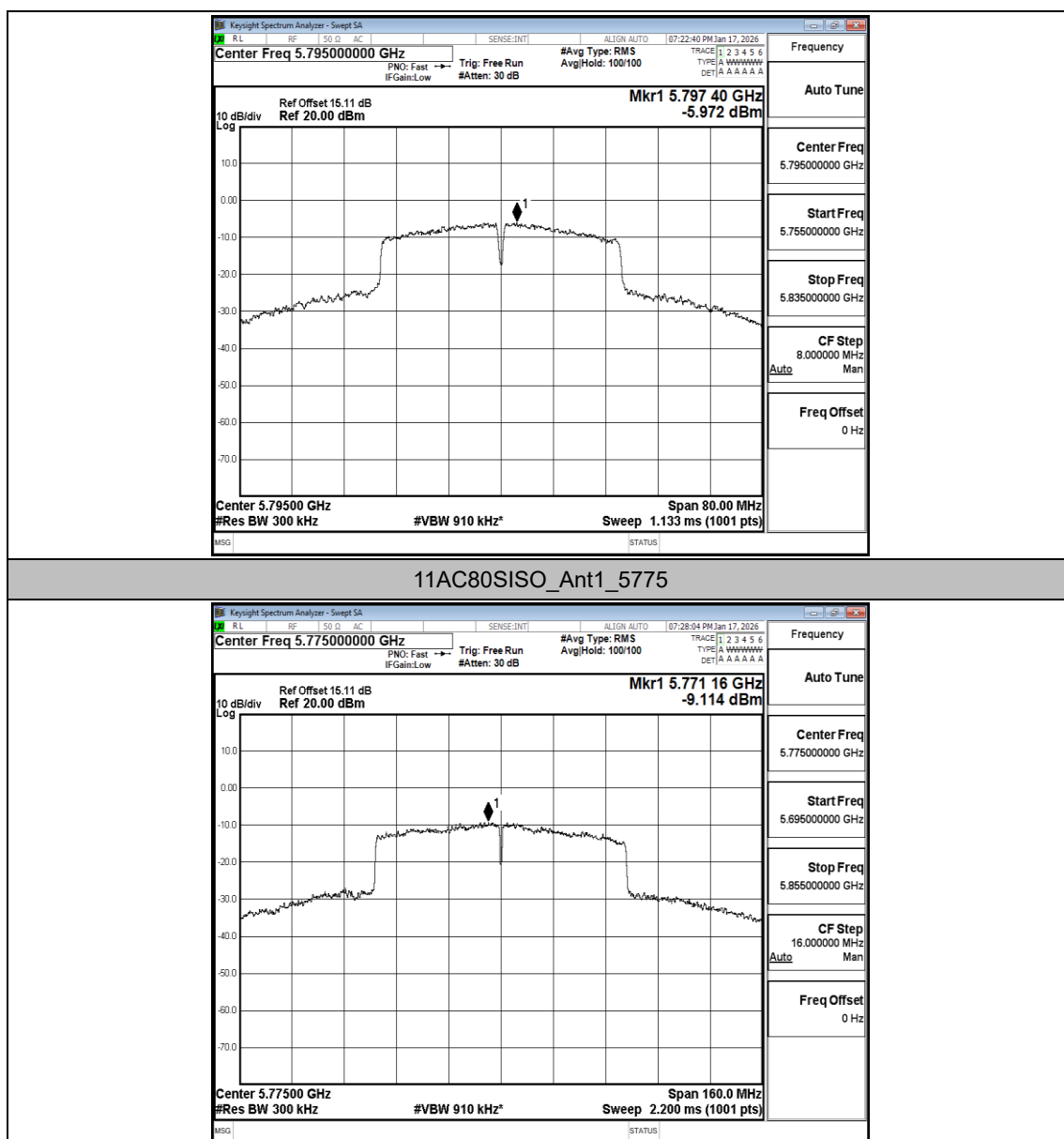


11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825





E.4 Emissions in Restricted Bands

Test Result

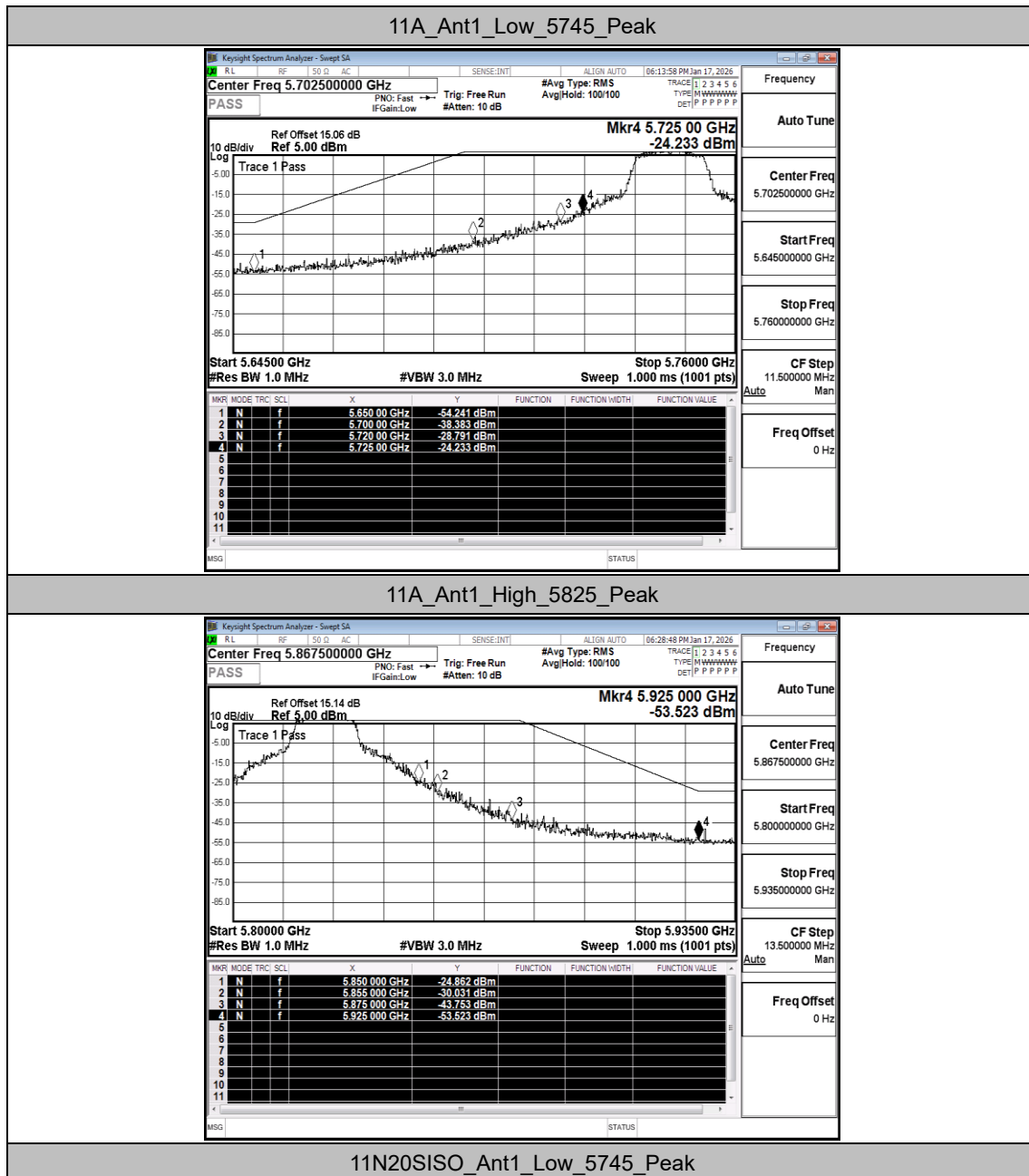
TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-54.241	≤-29.19	2.19	0.00	---	---	PASS
				Peak	5700.000	-38.38	≤7.81	2.19	0.00	---	---	PASS
				Peak	5720.000	-28.79	≤13.41	2.19	0.00	---	---	PASS
				Peak	5725.000	-24.23	≤24.81	2.19	0.00	---	---	PASS
		High	5825	Peak	5850.000	-24.862	≤24.81	2.19	0.00	---	---	PASS
				Peak	5855.000	-30.03	≤13.41	2.19	0.00	---	---	PASS
				Peak	5875.000	-43.75	≤7.81	2.19	0.00	---	---	PASS
				Peak	5925.000	-53.52	≤-27.00	2.19	0.00	---	---	PASS
11N20	Ant1	Low	5745	Peak	5650.000	-52.133	≤-29.19	2.19	0.00	---	---	PASS
				Peak	5700.000	-35.46	≤7.81	2.19	0.00	---	---	PASS
				Peak	5720.000	-24.03	≤13.41	2.19	0.00	---	---	PASS
				Peak	5725.000	-16.82	≤24.81	2.19	0.00	---	---	PASS
		High	5825	Peak	5850.000	-25.714	≤24.81	2.19	0.00	---	---	PASS
				Peak	5855.000	-29.1	≤13.41	2.19	0.00	---	---	PASS
				Peak	5875.000	-40.85	≤7.81	2.19	0.00	---	---	PASS
				Peak	5925.000	-54.02	≤-27.00	2.19	0.00	---	---	PASS
11N40	Ant1	Low	5755	Peak	5650.000	-39.186	≤-29.19	2.19	0.00	---	---	PASS
				Peak	5700.000	-26.13	≤7.81	2.19	0.00	---	---	PASS
				Peak	5720.000	-17.05	≤13.41	2.19	0.00	---	---	PASS
				Peak	5725.000	-12.09	≤24.81	2.19	0.00	---	---	PASS
		High	5795	Peak	5850.000	-26.082	≤24.81	2.19	0.00	---	---	PASS
				Peak	5855.000	-28.46	≤13.41	2.19	0.00	---	---	PASS
				Peak	5875.000	-38.32	≤7.81	2.19	0.00	---	---	PASS
				Peak	5925.000	-51.54	≤-27.00	2.19	0.00	---	---	PASS
11AC20	Ant1	Low	5745	Peak	5650.000	-50.272	≤-29.19	2.19	0.00	---	---	PASS
				Peak	5700.000	-33.97	≤7.81	2.19	0.00	---	---	PASS
				Peak	5720.000	-24.36	≤13.41	2.19	0.00	---	---	PASS
				Peak	5725.000	-16.3	≤24.81	2.19	0.00	---	---	PASS
		High	5825	Peak	5850.000	-21.842	≤24.81	2.19	0.00	---	---	PASS
				Peak	5855.000	-25.52	≤13.41	2.19	0.00	---	---	PASS
				Peak	5875.000	-42.69	≤7.81	2.19	0.00	---	---	PASS
				Peak	5925.000	-54.39	≤-27.00	2.19	0.00	---	---	PASS
11AC40	Ant1	Low	5755	Peak	5650.000	-38.941	≤-29.19	2.19	0.00	---	---	PASS
				Peak	5700.000	-25.44	≤7.81	2.19	0.00	---	---	PASS

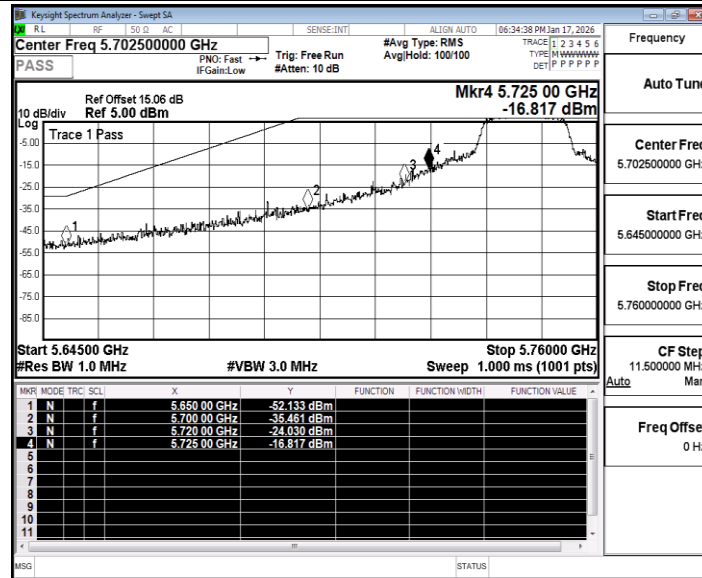
11AC80	Ant1			Peak	5720.000	-15.65	≤ 13.41	2.19	0.00	---	---	PASS
				Peak	5725.000	-13.85	≤ 24.81	2.19	0.00	---	---	PASS
		High	5795	Peak	5850.000	-28.344	≤ 24.81	2.19	0.00	---	---	PASS
				Peak	5855.000	-28.36	≤ 13.41	2.19	0.00	---	---	PASS
				Peak	5875.000	-38.98	≤ 7.81	2.19	0.00	---	---	PASS
				Peak	5925.000	-48.83	≤ 27.00	2.19	0.00	---	---	PASS
		Low	5775	Peak	5650.000	-40.565	≤ 29.19	2.19	0.00	---	---	PASS
				Peak	5700.000	-30.25	≤ 7.81	2.19	0.00	---	---	PASS
				Peak	5720.000	-31.45	≤ 13.41	2.19	0.00	---	---	PASS
				Peak	5725.000	-30.13	≤ 24.81	2.19	0.00	---	---	PASS
		High	5775	Peak	5850.000	-18.923	≤ 24.81	2.19	0.00	---	---	PASS
				Peak	5855.000	-19.84	≤ 13.41	2.19	0.00	---	---	PASS
				Peak	5875.000	-25.4	≤ 7.81	2.19	0.00	---	---	PASS
				Peak	5925.000	-35.15	≤ 27.00	2.19	0.00	---	---	PASS

Note:

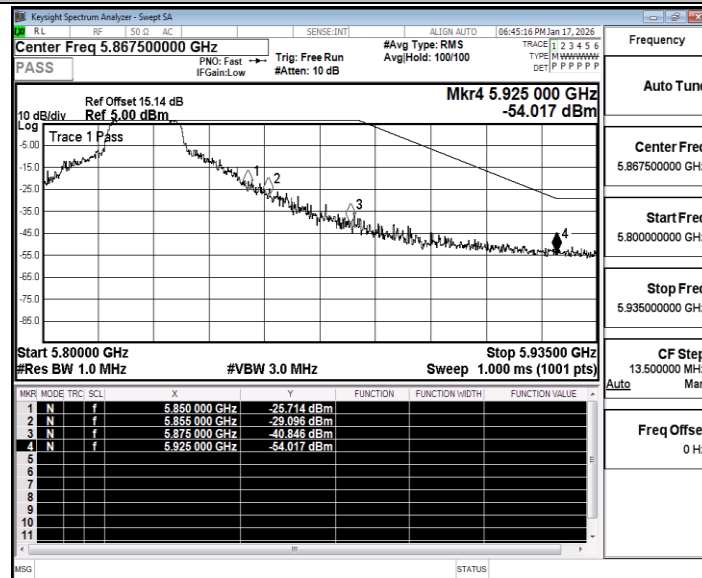
1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

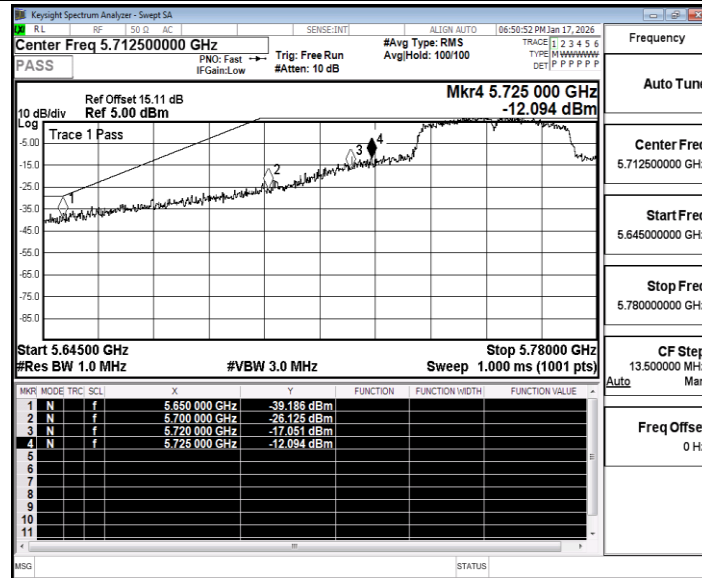




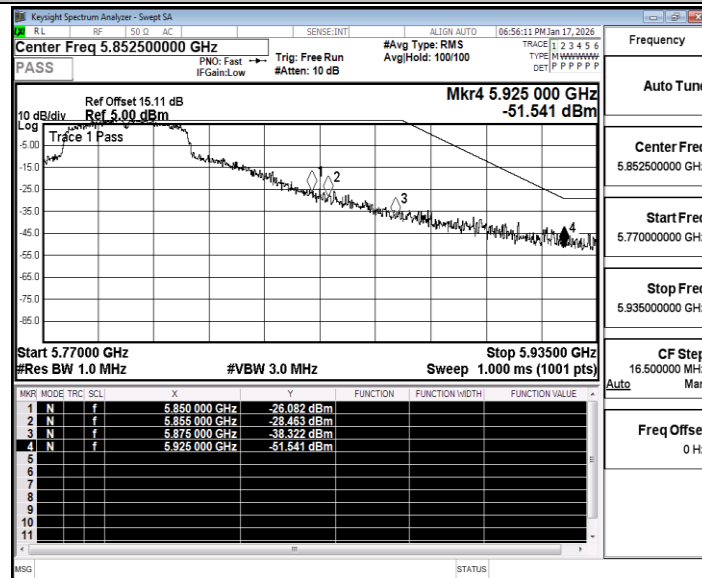
11N20SISO_Ant1_High_5825_Peak



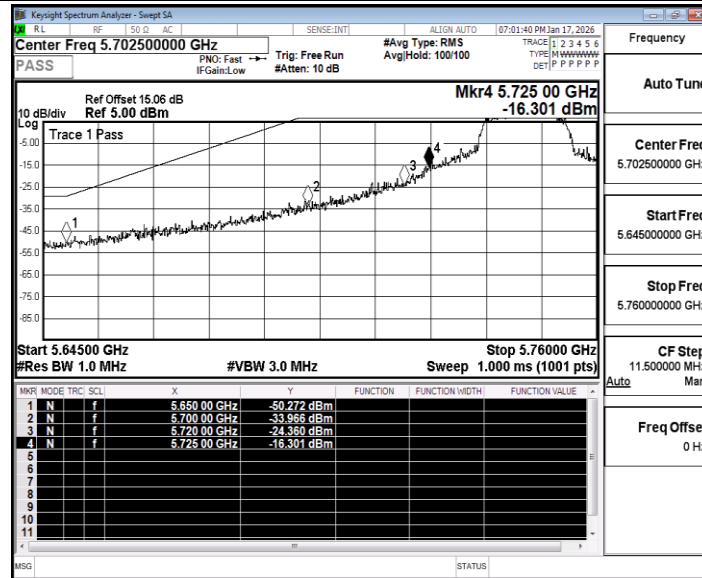
11N40SISO_Ant1_Low_5755_Peak



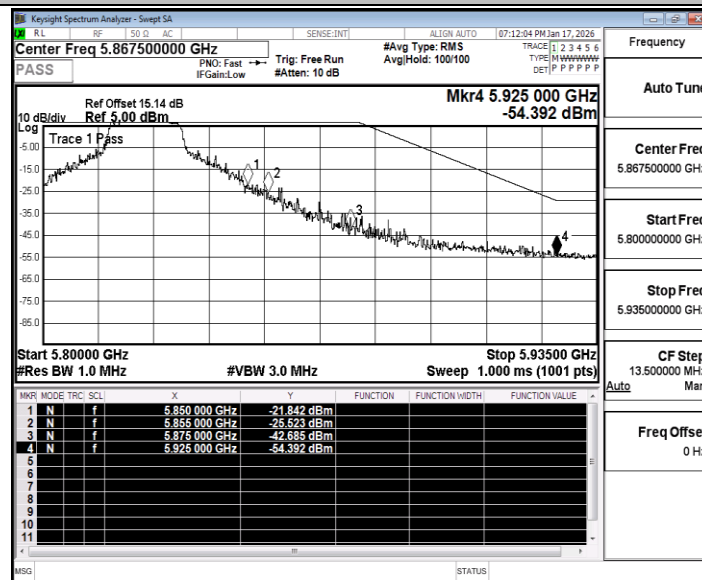
11N40SISO_Ant1_High_5795_Peak



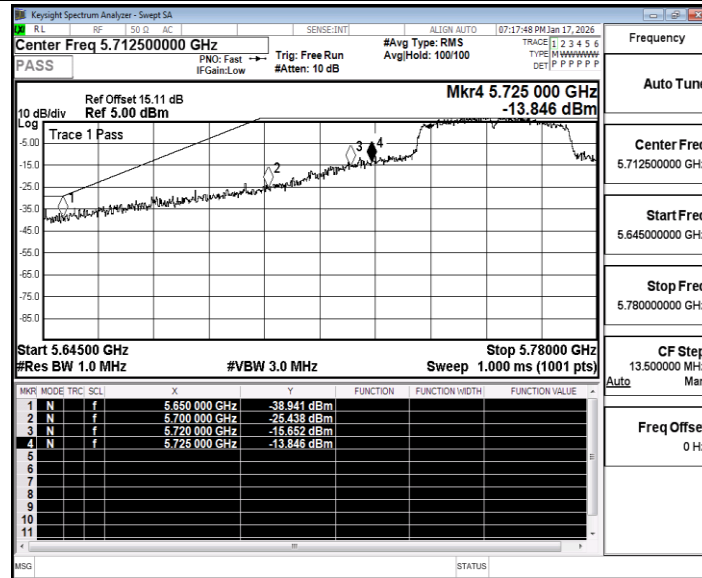
11AC20SISO_Ant1_Low_5745_Peak



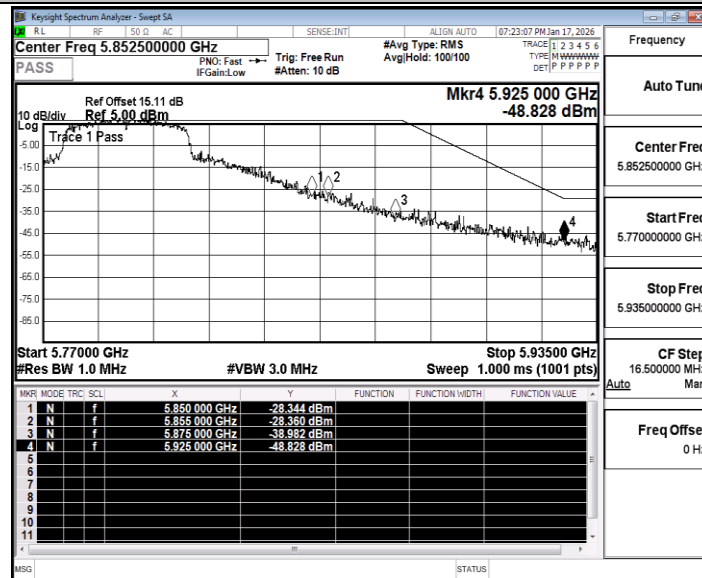
11AC20SISO_Ant1_High_5825_Peak



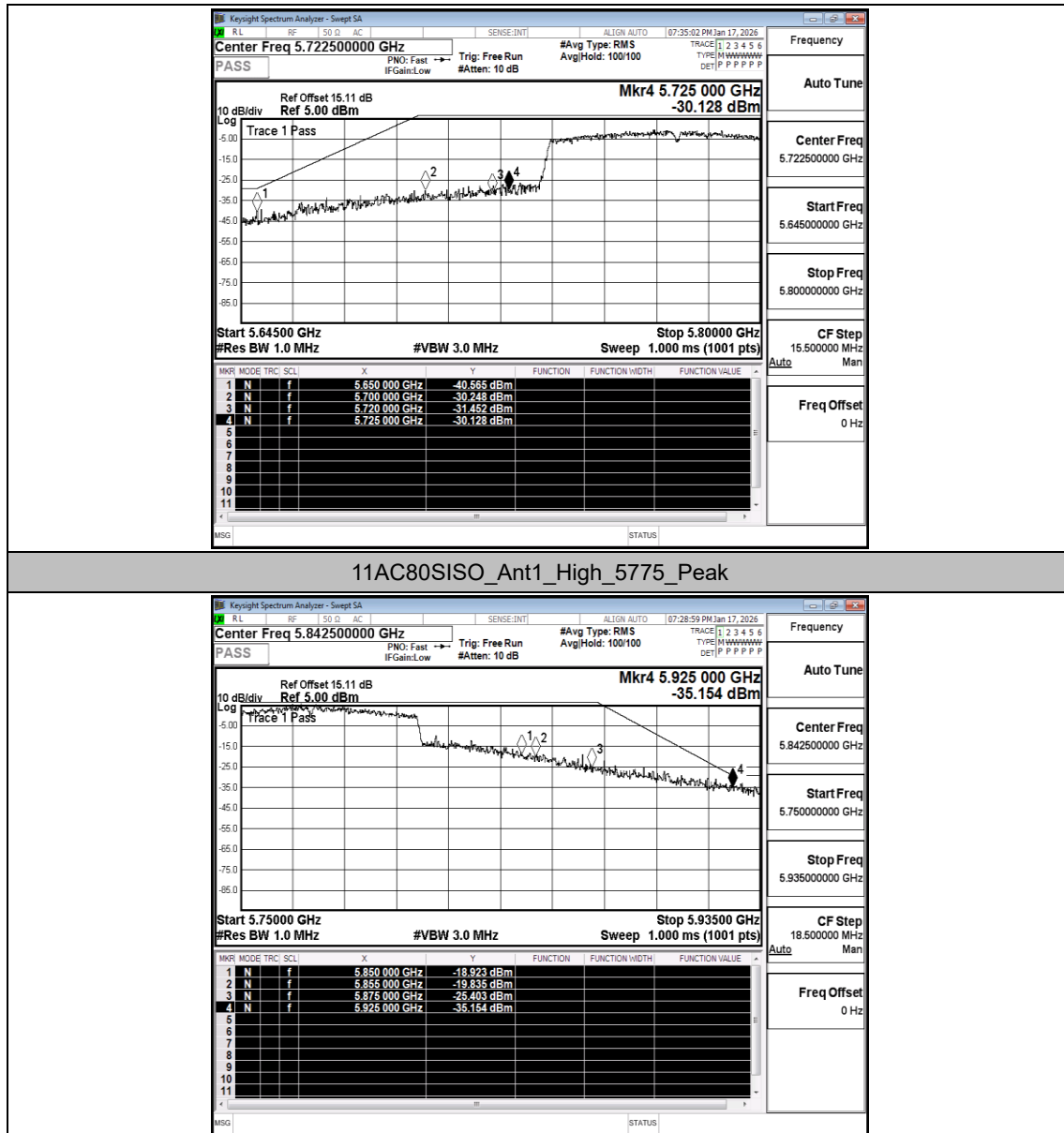
11AC40SISO_Ant1_Low_5755_Peak



11AC40SISO_Ant1_High_5795_Peak



11AC80SISO_Ant1_Low_5775_Peak



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	-40000.00	-6.962576	20	PASS
			LV	NT	-60000.00	-10.443864	20	PASS
			HV	NT	-40000.00	-6.962576	20	PASS
		5785	NV	NT	-40000.00	-6.914434	20	PASS
			LV	NT	-40000.00	-6.914434	20	PASS
			HV	NT	-20000.00	-3.457217	20	PASS
		5825	NV	NT	-40000.00	-6.866953	20	PASS
			LV	NT	-20000.00	-3.433476	20	PASS
			HV	NT	-20000.00	-3.433476	20	PASS
11N20SI SO	Ant1	5745	NV	NT	-20000.00	-3.481288	20	PASS
			LV	NT	-20000.00	-3.481288	20	PASS
			HV	NT	-20000.00	-3.481288	20	PASS
		5785	NV	NT	-40000.00	-6.914434	20	PASS
			LV	NT	-40000.00	-6.914434	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
11N40SI SO	Ant1	5755	NV	NT	-40000.00	-6.950478	20	PASS
			LV	NT	-40000.00	-6.950478	20	PASS
			HV	NT	-40000.00	-6.950478	20	PASS
		5795	NV	NT	-40000.00	-6.902502	20	PASS
			LV	NT	-80000.00	-13.805004	20	PASS
			HV	NT	-80000.00	-13.805004	20	PASS
11AC20S ISO	Ant1	5745	NV	NT	-40000.00	-6.962576	20	PASS
			LV	NT	-40000.00	-6.962576	20	PASS
			HV	NT	-20000.00	-3.481288	20	PASS
		5785	NV	NT	-60000.00	-10.371651	20	PASS
			LV	NT	-60000.00	-10.371651	20	PASS
			HV	NT	-40000.00	-6.914434	20	PASS
		5825	NV	NT	-20000.00	-3.433476	20	PASS
			LV	NT	-60000.00	-10.300429	20	PASS
			HV	NT	-40000.00	-6.866953	20	PASS
11AC40S	Ant1	5755	NV	NT	-40000.00	-6.950478	20	PASS

ISO			LV	NT	-80000.00	-13.900956	20	PASS
			HV	NT	-40000.00	-6.950478	20	PASS
		5795	NV	NT	-40000.00	-6.902502	20	PASS
			LV	NT	-40000.00	-6.902502	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC80S ISO	Ant1	5775	NV	NT	-80000.00	-13.852814	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-80000.00	-13.852814	20	PASS

Temperature								
TestMode	Antenna	Freq (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5745	NV	-30	-40000.00	-6.962576	20	PASS
			NV	-20	-40000.00	-6.962576	20	PASS
			NV	-10	-60000.00	-10.443864	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	-40000.00	-6.962576	20	PASS
			NV	20	-40000.00	-6.962576	20	PASS
			NV	30	-20000.00	-3.481288	20	PASS
			NV	40	-40000.00	-6.962576	20	PASS
			NV	50	-20000.00	-3.481288	20	PASS
		5785	NV	-30	-40000.00	-6.914434	20	PASS
			NV	-20	-40000.00	-6.914434	20	PASS
			NV	-10	-40000.00	-6.914434	20	PASS
			NV	0	-40000.00	-6.914434	20	PASS
			NV	10	-40000.00	-6.914434	20	PASS
			NV	20	-40000.00	-6.914434	20	PASS
			NV	30	-20000.00	-3.457217	20	PASS
			NV	40	-40000.00	-6.914434	20	PASS
			NV	50	-40000.00	-6.914434	20	PASS
		5825	NV	-30	-20000.00	-3.433476	20	PASS
			NV	-20	-40000.00	-6.866953	20	PASS
			NV	-10	-20000.00	-3.433476	20	PASS
			NV	0	-40000.00	-6.866953	20	PASS
			NV	10	-40000.00	-6.866953	20	PASS
			NV	20	-40000.00	-6.866953	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
11N20SI SO	Ant1	5745	NV	-30	-20000.00	-3.481288	20	PASS
			NV	-20	-40000.00	-6.962576	20	PASS

			NV	-10	-20000.00	-3.481288	20	PASS
			NV	0	-20000.00	-3.481288	20	PASS
			NV	10	-40000.00	-6.962576	20	PASS
			NV	20	-40000.00	-6.962576	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	-60000.00	-10.371651	20	PASS
			NV	-20	-20000.00	-3.457217	20	PASS
			NV	-10	-20000.00	-3.457217	20	PASS
			NV	0	-40000.00	-6.914434	20	PASS
			NV	10	-40000.00	-6.914434	20	PASS
			NV	20	-40000.00	-6.914434	20	PASS
			NV	30	-40000.00	-6.914434	20	PASS
			NV	40	-40000.00	-6.914434	20	PASS
			NV	50	-40000.00	-6.914434	20	PASS
		5825	NV	-30	-20000.00	-3.433476	20	PASS
			NV	-20	-40000.00	-6.866953	20	PASS
			NV	-10	-40000.00	-6.866953	20	PASS
			NV	0	-20000.00	-3.433476	20	PASS
			NV	10	-40000.00	-6.866953	20	PASS
			NV	20	-40000.00	-6.866953	20	PASS
			NV	30	-20000.00	-3.433476	20	PASS
			NV	40	-40000.00	-6.866953	20	PASS
			NV	50	0.00	0.000000	20	PASS
11N40SI SO	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	-80000.00	-13.900956	20	PASS
			NV	10	-80000.00	-13.900956	20	PASS
			NV	20	-40000.00	-6.950478	20	PASS
			NV	30	-80000.00	-13.900956	20	PASS
			NV	40	-40000.00	-6.950478	20	PASS
			NV	50	-40000.00	-6.950478	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	-40000.00	-6.902502	20	PASS
			NV	20	-40000.00	-6.902502	20	PASS
			NV	30	-80000.00	-13.805004	20	PASS

			NV	40	-40000.00	-6.902502	20	PASS
			NV	50	0.00	0.000000	20	PASS
11AC20S ISO	Ant1	5745	NV	-30	-60000.00	-10.443864	20	PASS
			NV	-20	-40000.00	-6.962576	20	PASS
			NV	-10	-20000.00	-3.481288	20	PASS
			NV	0	-40000.00	-6.962576	20	PASS
			NV	10	-40000.00	-6.962576	20	PASS
			NV	20	-20000.00	-3.481288	20	PASS
			NV	30	-60000.00	-10.443864	20	PASS
			NV	40	-40000.00	-6.962576	20	PASS
			NV	50	-20000.00	-3.481288	20	PASS
		5785	NV	-30	-40000.00	-6.914434	20	PASS
			NV	-20	-20000.00	-3.457217	20	PASS
			NV	-10	-60000.00	-10.371651	20	PASS
			NV	0	-20000.00	-3.457217	20	PASS
			NV	10	-20000.00	-3.457217	20	PASS
			NV	20	-40000.00	-6.914434	20	PASS
			NV	30	-40000.00	-6.914434	20	PASS
			NV	40	-40000.00	-6.914434	20	PASS
			NV	50	-40000.00	-6.914434	20	PASS
		5825	NV	-30	-40000.00	-6.866953	20	PASS
			NV	-20	-40000.00	-6.866953	20	PASS
			NV	-10	-20000.00	-3.433476	20	PASS
			NV	0	-40000.00	-6.866953	20	PASS
			NV	10	-40000.00	-6.866953	20	PASS
			NV	20	-20000.00	-3.433476	20	PASS
			NV	30	-20000.00	-3.433476	20	PASS
			NV	40	-40000.00	-6.866953	20	PASS
			NV	50	-20000.00	-3.433476	20	PASS
11AC40S ISO	Ant1	5755	NV	-30	-40000.00	-6.950478	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	-80000.00	-13.900956	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-40000.00	-6.950478	20	PASS
			NV	50	-40000.00	-6.950478	20	PASS
		5795	NV	-30	-40000.00	-6.902502	20	PASS
			NV	-20	-80000.00	-13.805004	20	PASS
			NV	-10	-40000.00	-6.902502	20	PASS

			NV	0	-80000.00	-13.805004	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-40000.00	-6.902502	20	PASS
			NV	30	-40000.00	-6.902502	20	PASS
			NV	40	-40000.00	-6.902502	20	PASS
			NV	50	-80000.00	-13.805004	20	PASS
11AC80S ISO	Ant1	5775	NV	-30	-80000.00	-13.852814	20	PASS
			NV	-20	-80000.00	-13.852814	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-80000.00	-13.852814	20	PASS
			NV	10	-80000.00	-13.852814	20	PASS
			NV	20	-80000.00	-13.852814	20	PASS
			NV	30	-80000.00	-13.852814	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	1.43	97.20	0.12	---	---
		5785	1.40	1.45	96.55	0.15	---	---
		5825	1.39	1.44	96.53	0.15	---	---
11N20SISO	Ant1	5745	1.30	1.35	96.30	0.16	---	---
		5785	1.29	1.34	96.27	0.17	---	---
		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	1.31	1.35	97.04	0.13	---	---
		5785	1.32	1.36	97.06	0.13	---	---
		5825	1.31	1.36	96.32	0.16	---	---
11AC40SISO	Ant1	5755	0.65	0.69	94.20	0.26	---	---
		5795	0.66	0.70	94.29	0.26	---	---
11AC80SISO	Ant1	5775	0.33	0.37	89.19	0.50	---	---

Test Graphs

