

Appendix E

RF Test Data for 5.3GWIFI (Conducted Measurement)

Product Name: Smart Phone

Test Model: ULTRA S26

Environmental Conditions

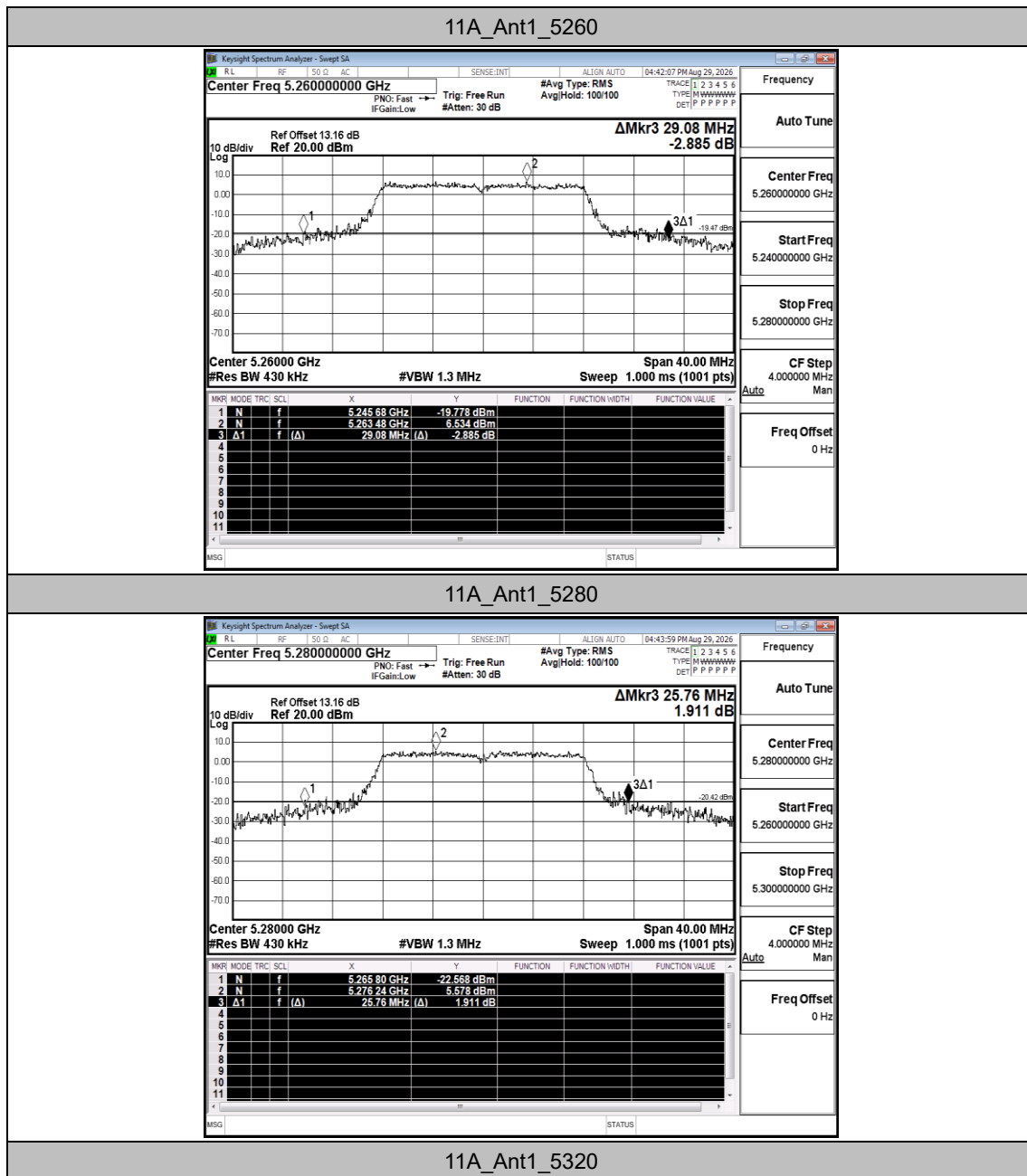
Temperature:	24.3°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

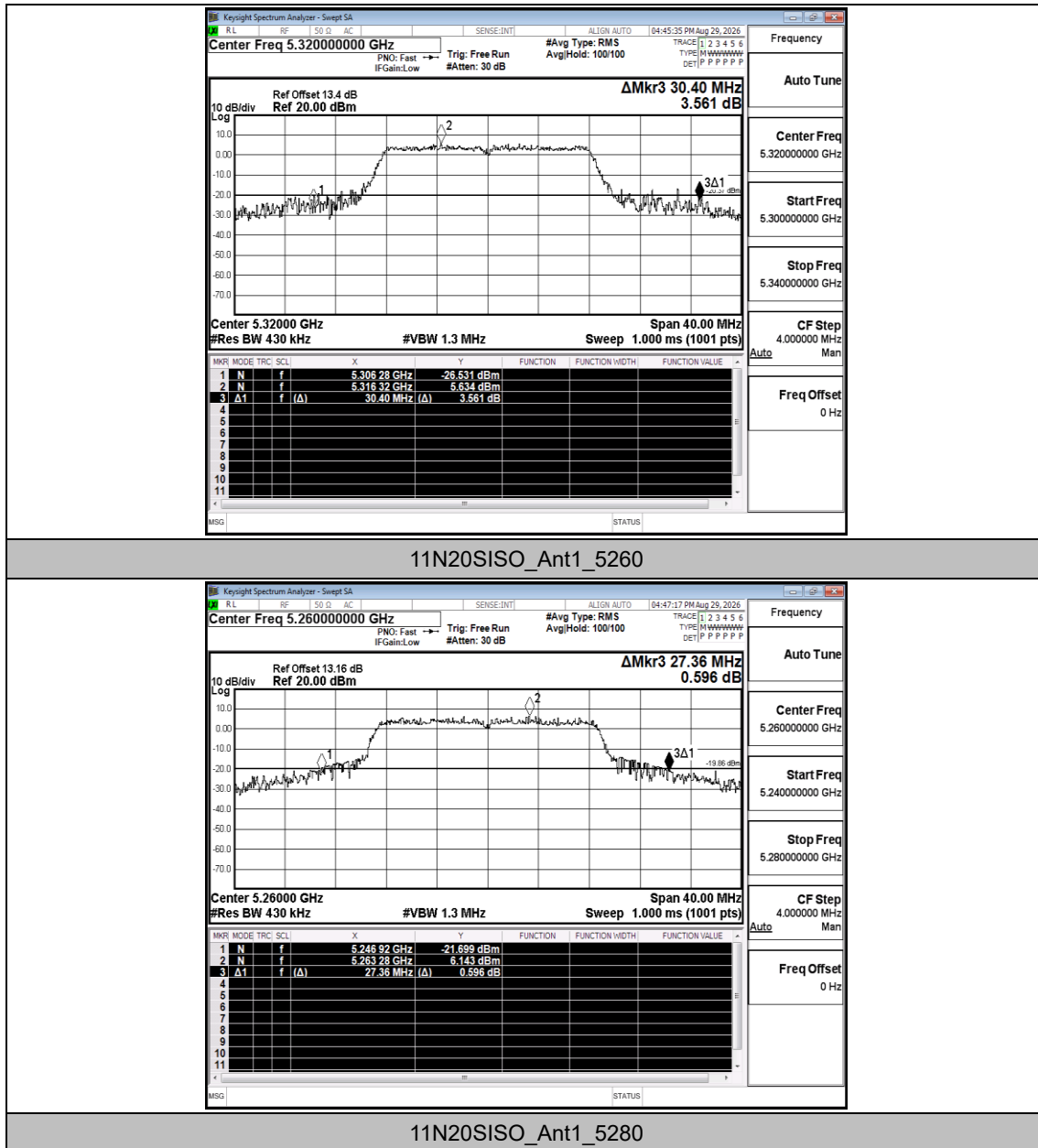
E.1 Emission Bandwidth

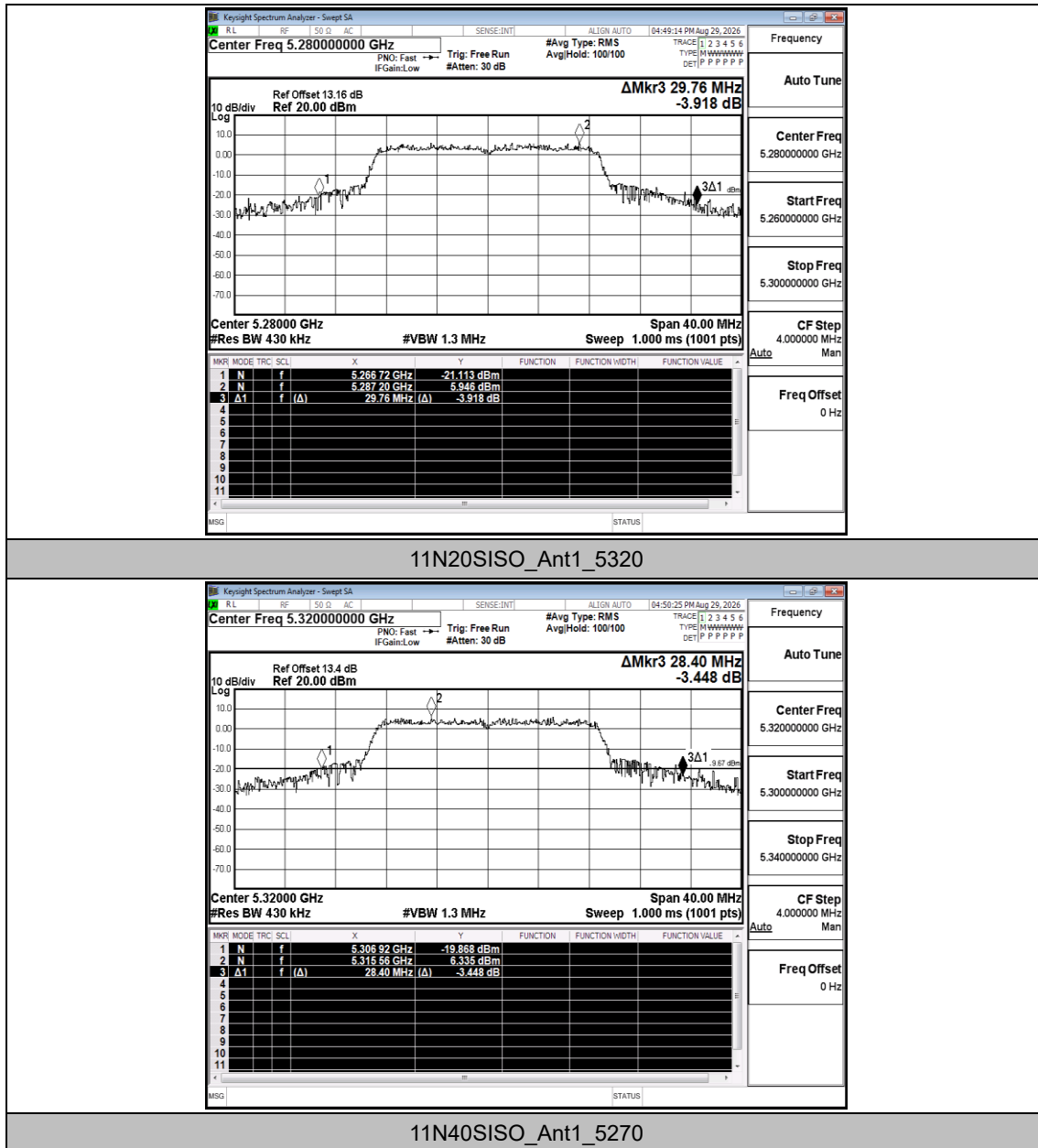
Test Result

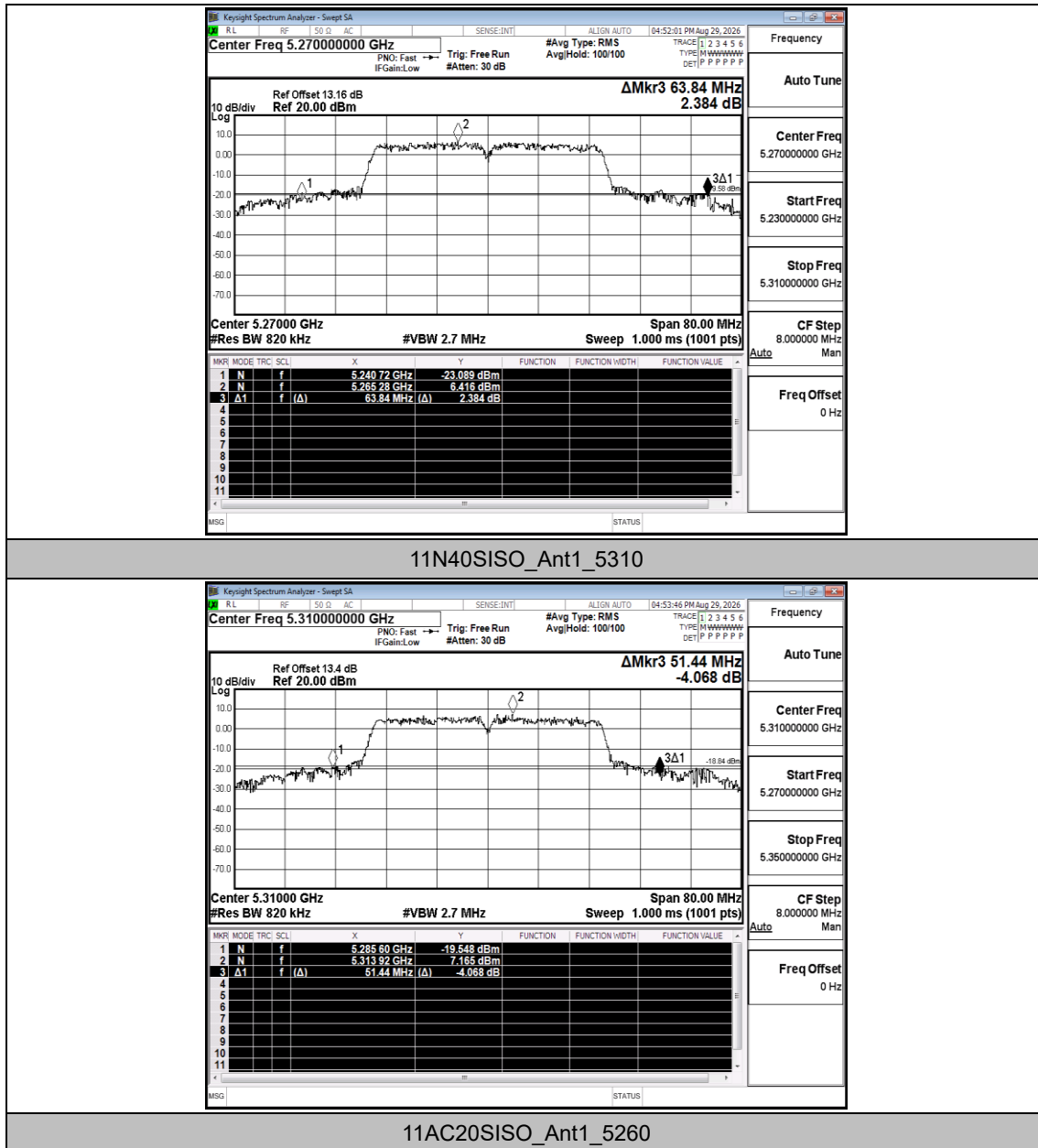
TestMode	Antenna	Freq (MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5260	29.080	5245.680	5274.760	---	---
		5280	25.760	5265.800	5291.560	---	---
		5320	30.400	5306.280	5336.680	---	---
11N20SISO	Ant1	5260	27.360	5246.920	5274.280	---	---
		5280	29.760	5266.720	5296.480	---	---
		5320	28.400	5306.920	5335.320	---	---
11N40SISO	Ant1	5270	63.840	5240.720	5304.560	---	---
		5310	51.440	5285.600	5337.040	---	---
11AC20SISO	Ant1	5260	26.120	5246.640	5272.760	---	---
		5280	30.280	5266.080	5296.360	---	---
		5320	28.360	5306.920	5335.280	---	---
11AC40SISO	Ant1	5270	46.080	5249.680	5295.760	---	---
		5310	61.120	5283.840	5344.960	---	---
11AC80SISO	Ant1	5290	99.840	5244.400	5344.240	---	---

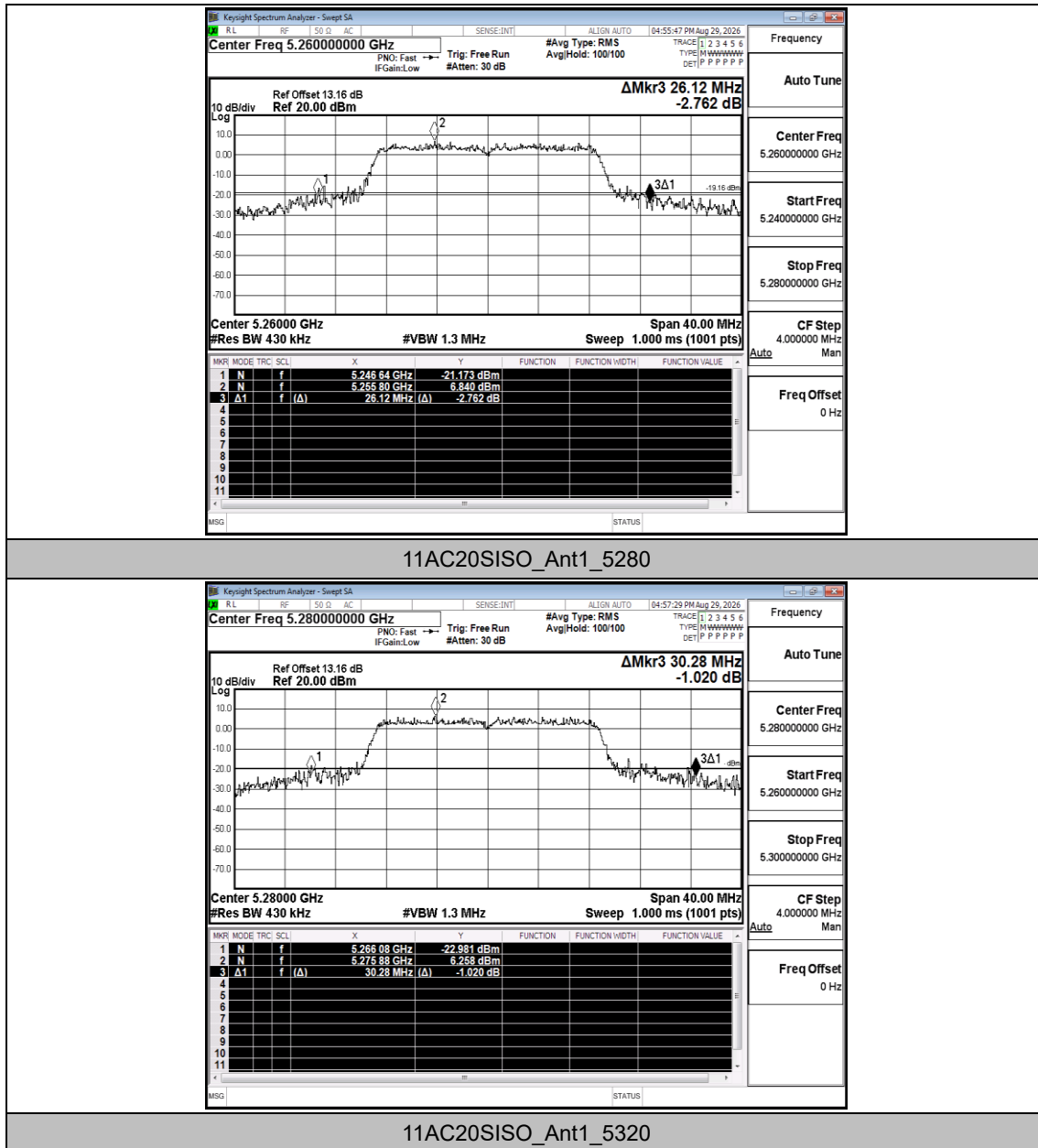
Test Graphs

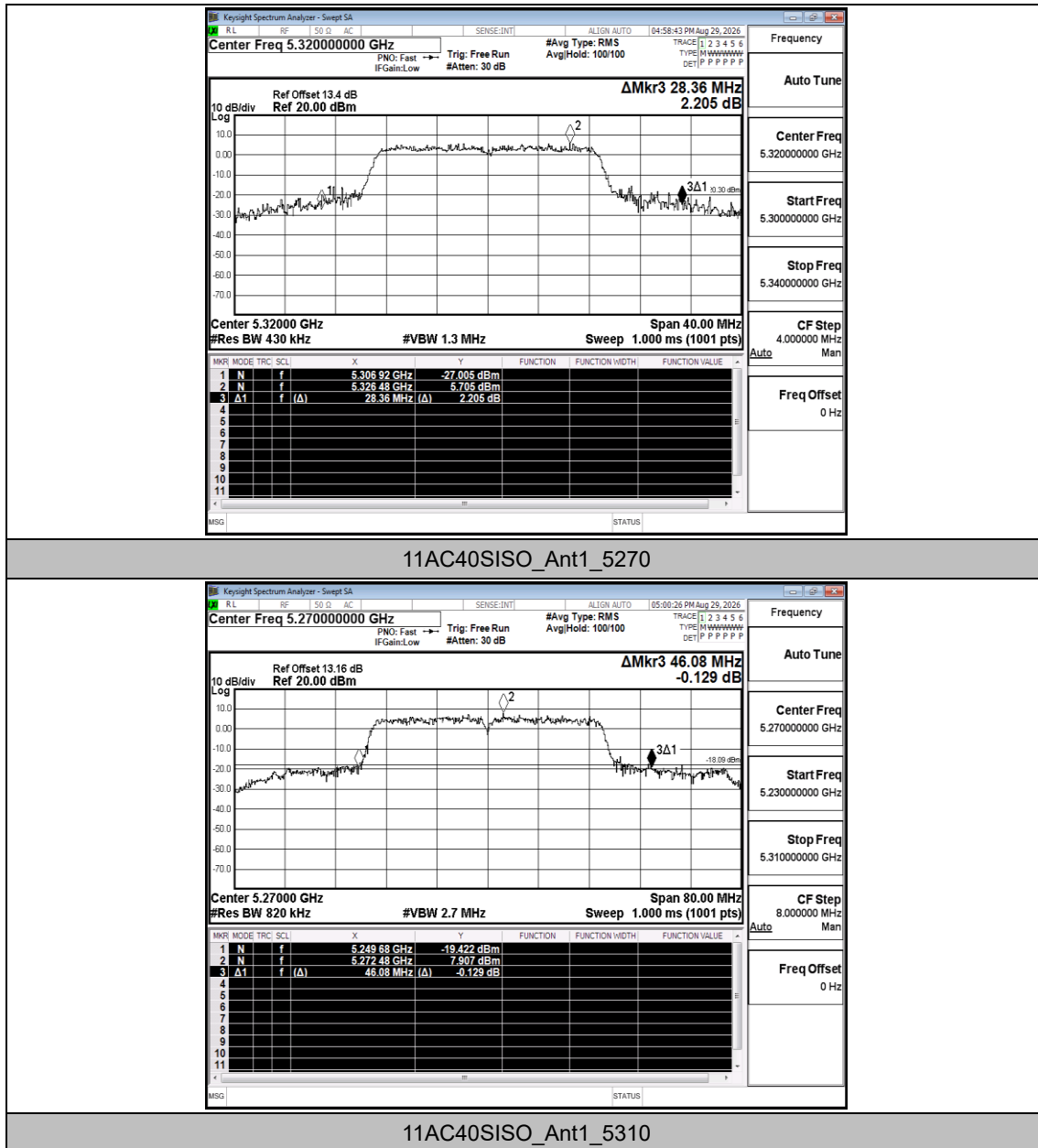


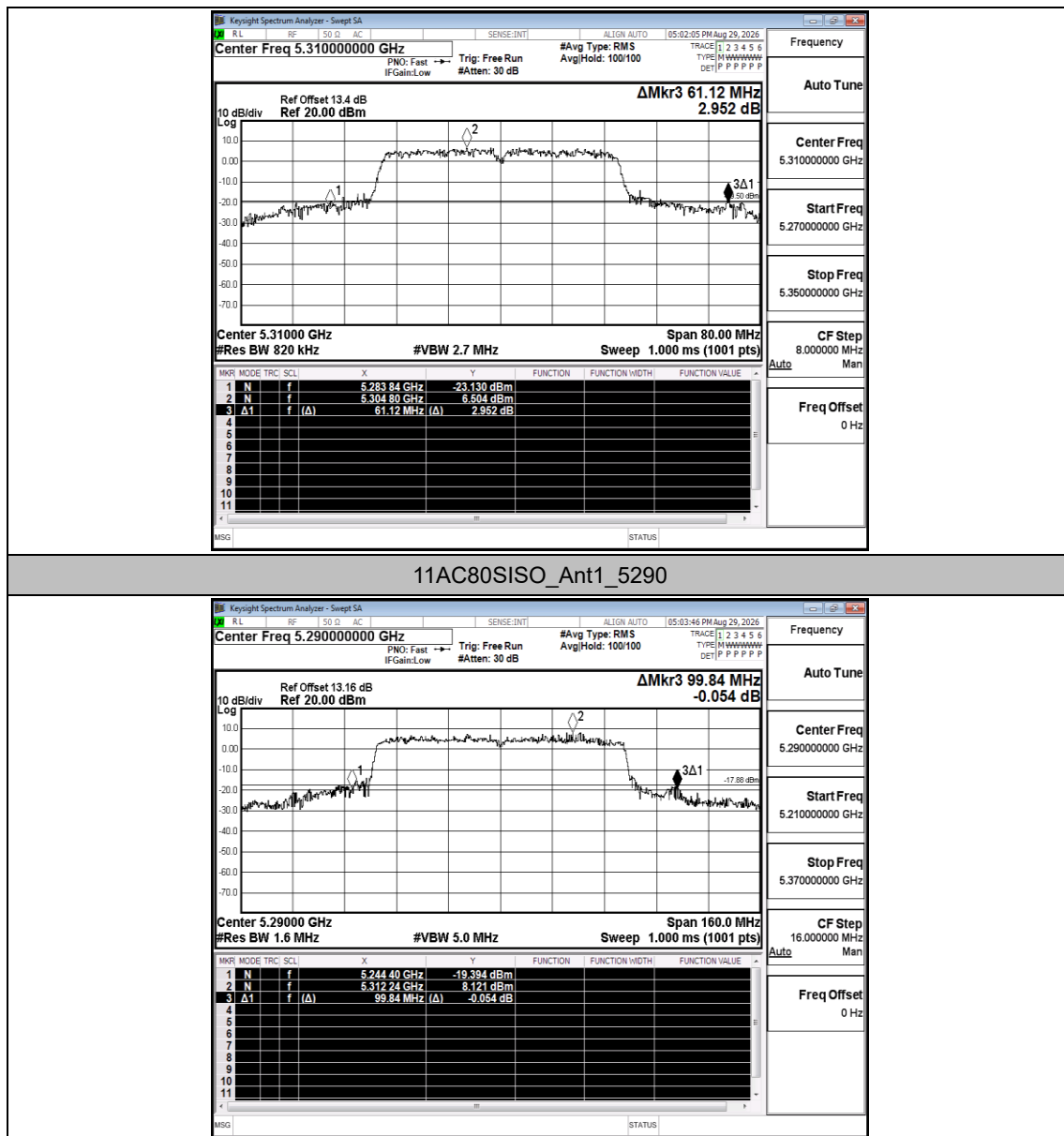












E.2 Maximum conducted output power

Test Result

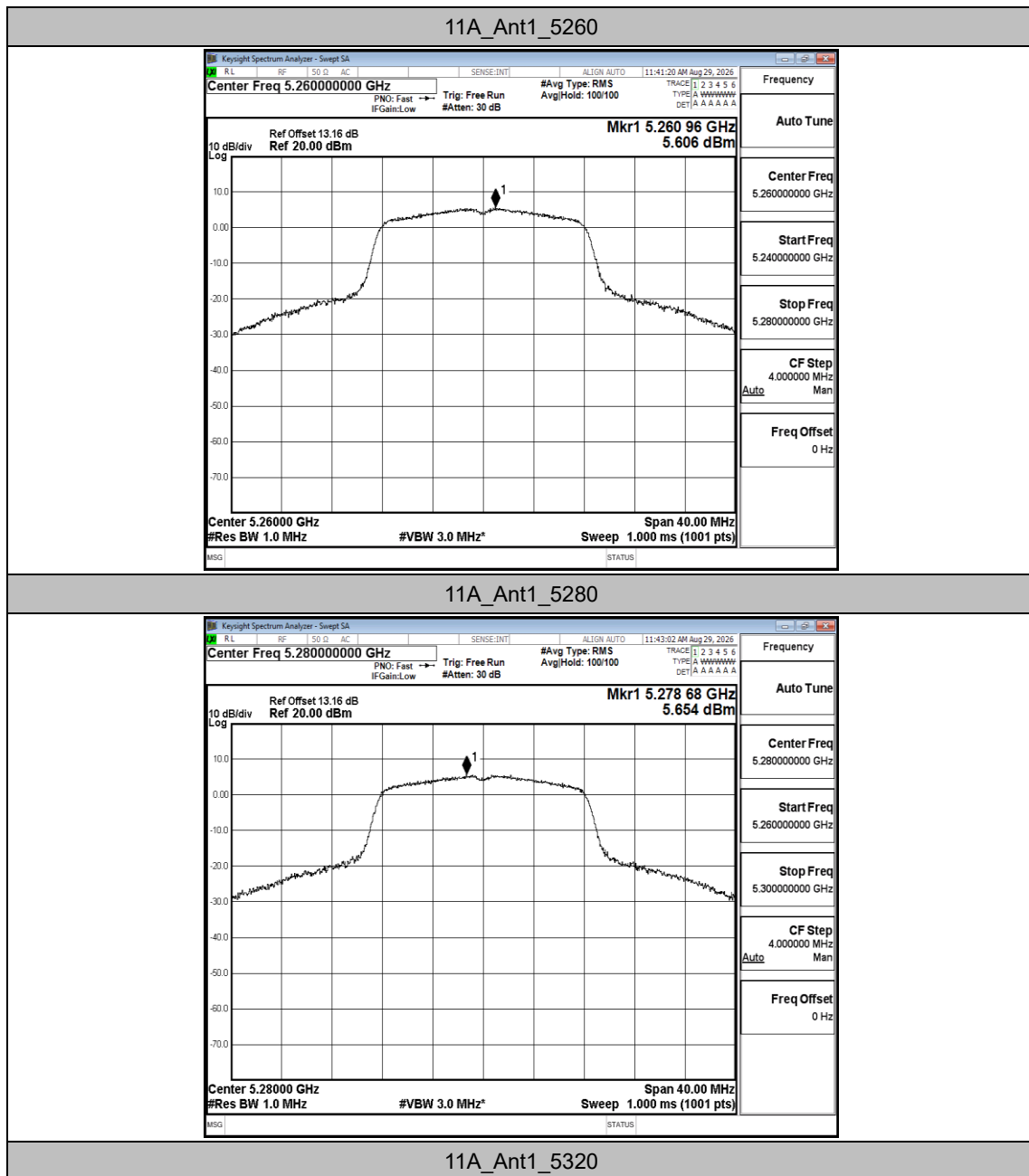
TestMode	Antenna	Freq (MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5260	NA	16.72	0.15	16.87	≤23.98	PASS
		5280	NA	16.72	0.15	16.87	≤23.98	PASS
		5320	NA	16.15	0.15	16.30	≤23.98	PASS
11N20SISO	Ant1	5260	NA	16.71	0.13	16.84	≤23.98	PASS
		5280	NA	16.58	0.16	16.74	≤23.98	PASS
		5320	NA	16.27	0.16	16.43	≤23.98	PASS
11N40SISO	Ant1	5270	NA	16.73	0.33	17.06	≤23.98	PASS
		5310	NA	16.40	0.33	16.73	≤23.98	PASS
11AC20SISO	Ant1	5260	NA	16.75	0.16	16.91	≤23.98	PASS
		5280	NA	16.45	0.13	16.58	≤23.98	PASS
		5320	NA	14.69	0.16	14.85	≤23.98	PASS
11AC40SISO	Ant1	5270	NA	16.62	0.26	16.88	≤23.98	PASS
		5310	NA	16.38	0.26	16.64	≤23.98	PASS
11AC80SISO	Ant1	5290	NA	16.30	0.63	16.93	≤23.98	PASS

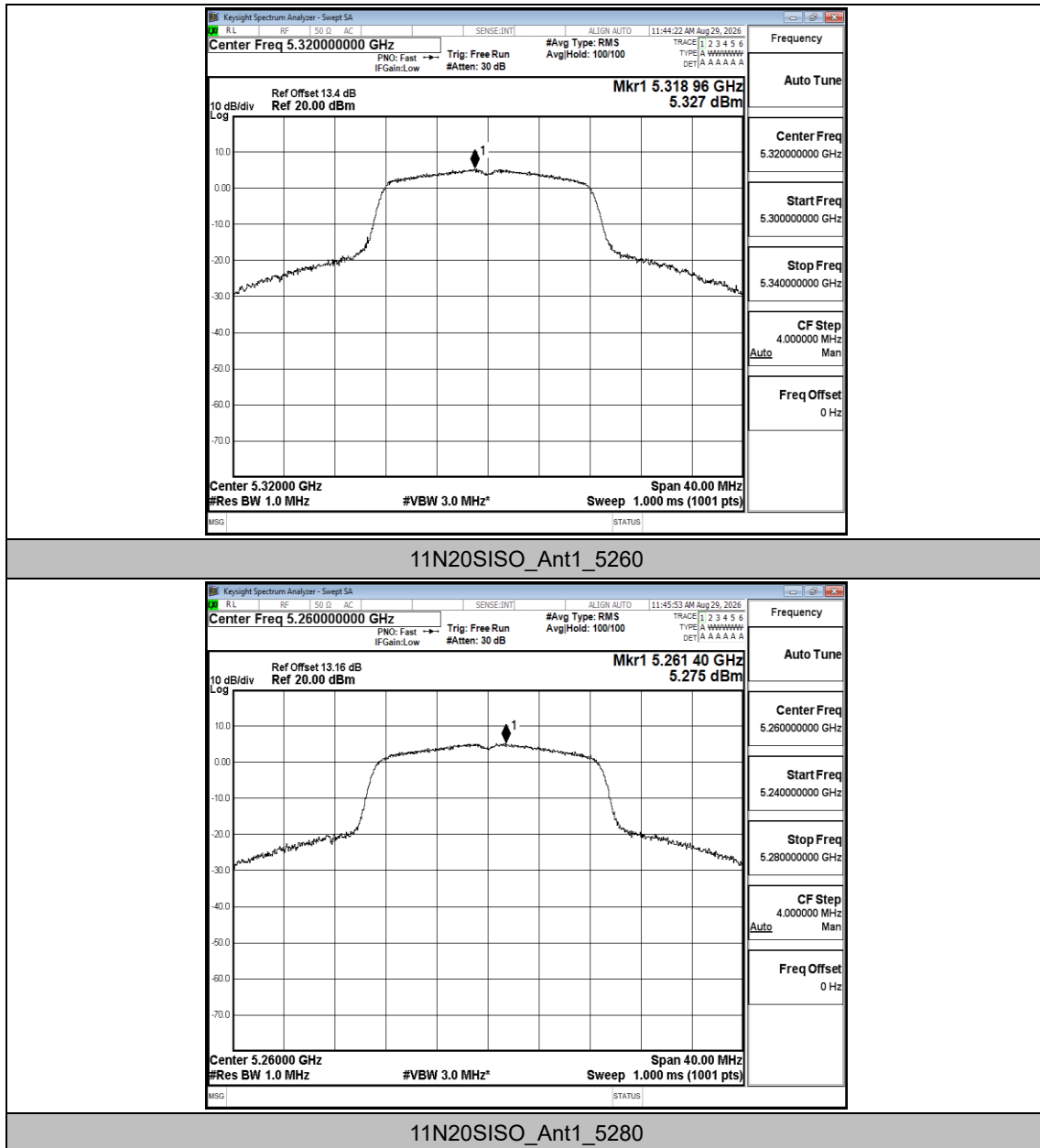
E.3 Maximum power spectral density

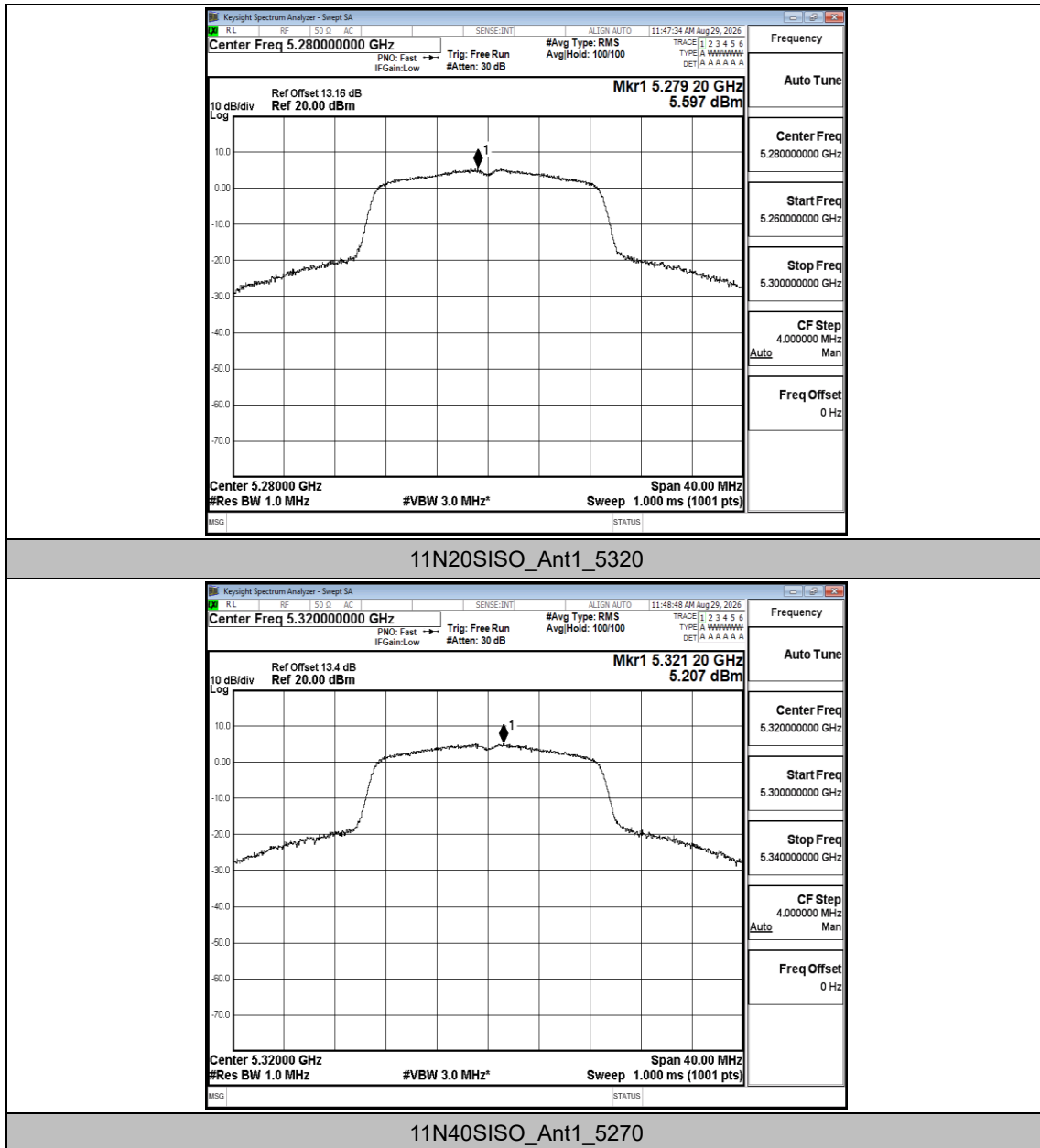
Test Result

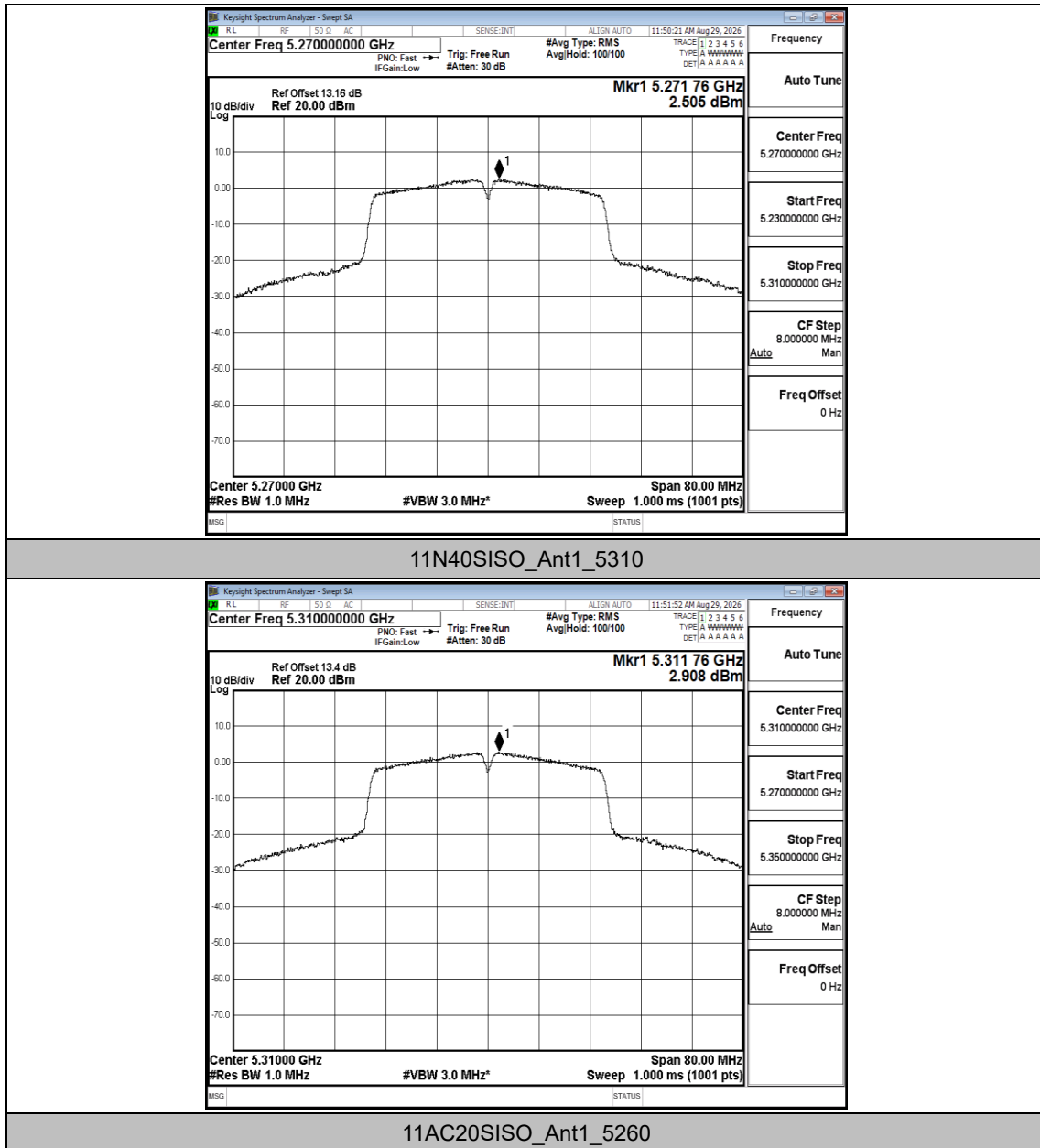
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5260	5.61	0.15	5.76	≤11.00	PASS
		5280	5.65	0.15	5.80	≤11.00	PASS
		5320	5.33	0.15	5.48	≤11.00	PASS
11N20SISO	Ant1	5260	5.28	0.13	5.41	≤11.00	PASS
		5280	5.6	0.16	5.76	≤11.00	PASS
		5320	5.21	0.16	5.37	≤11.00	PASS
11N40SISO	Ant1	5270	2.51	0.33	2.84	≤11.00	PASS
		5310	2.91	0.33	3.24	≤11.00	PASS
11AC20SISO	Ant1	5260	5.18	0.16	5.34	≤11.00	PASS
		5280	5.23	0.13	5.36	≤11.00	PASS
		5320	3.74	0.16	3.90	≤11.00	PASS
11AC40SISO	Ant1	5270	2.77	0.26	3.03	≤11.00	PASS
		5310	2.39	0.26	2.65	≤11.00	PASS
11AC80SISO	Ant1	5290	-0.77	0.63	-0.14	≤11.00	PASS

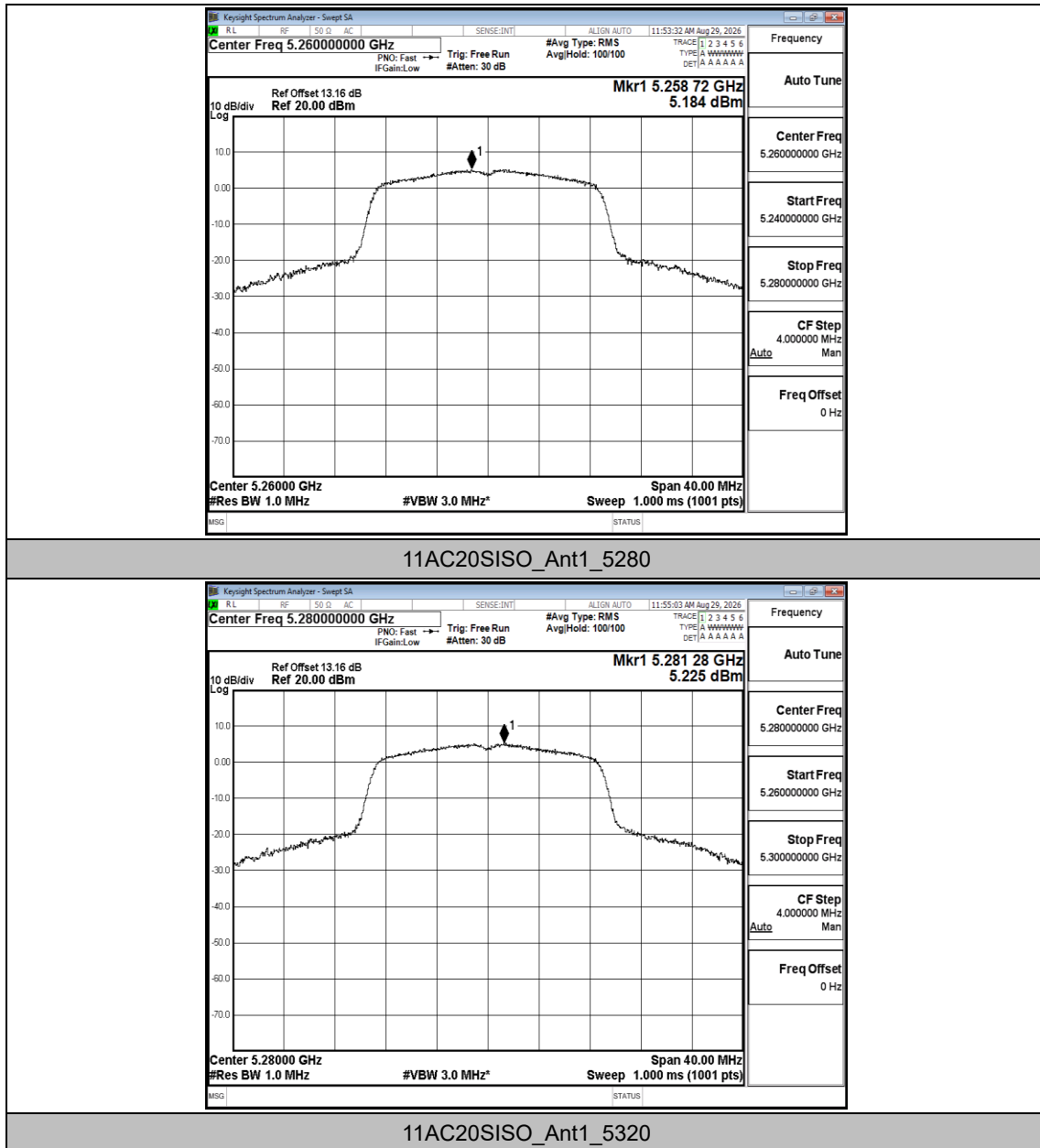
Test Graphs

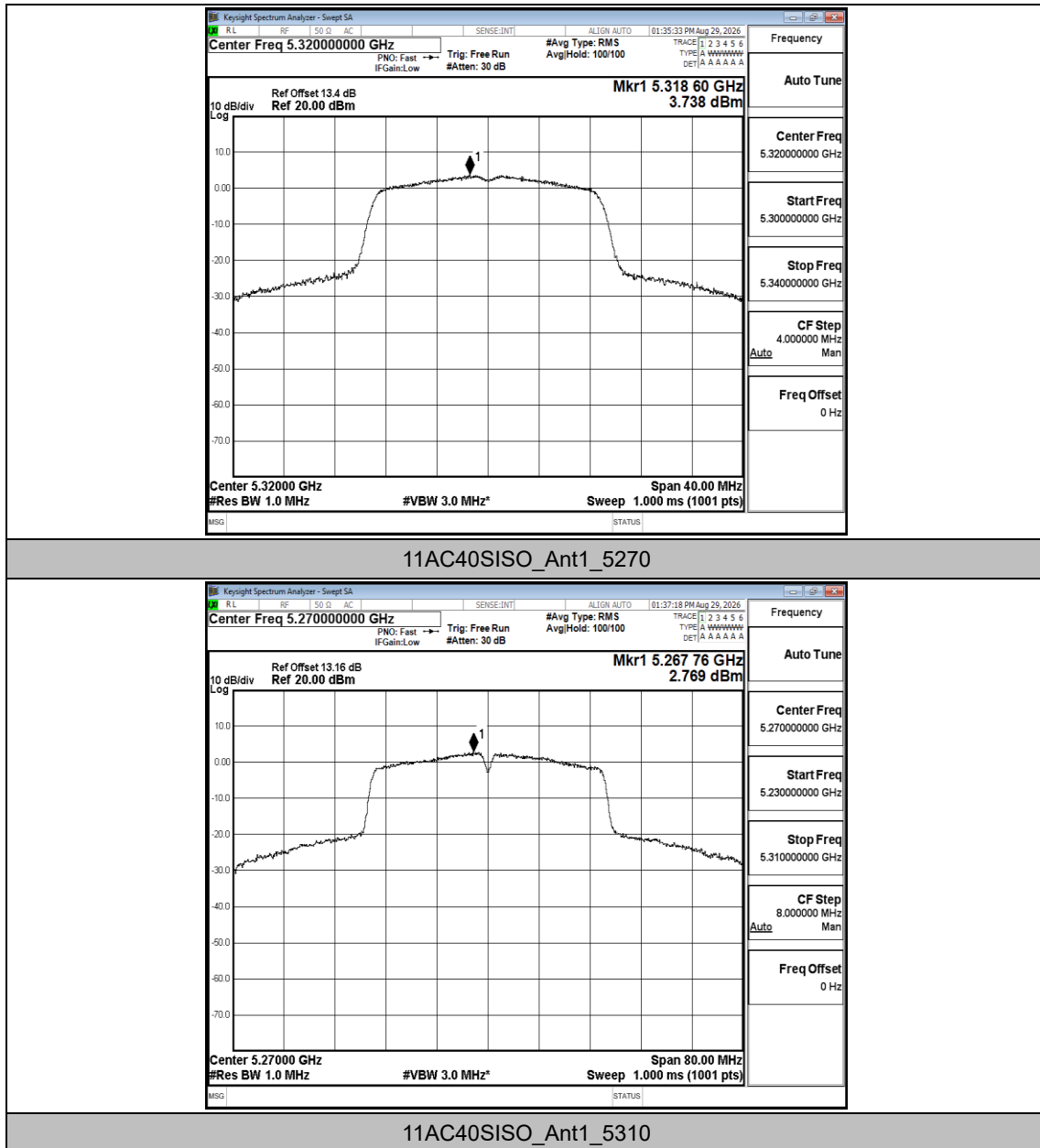


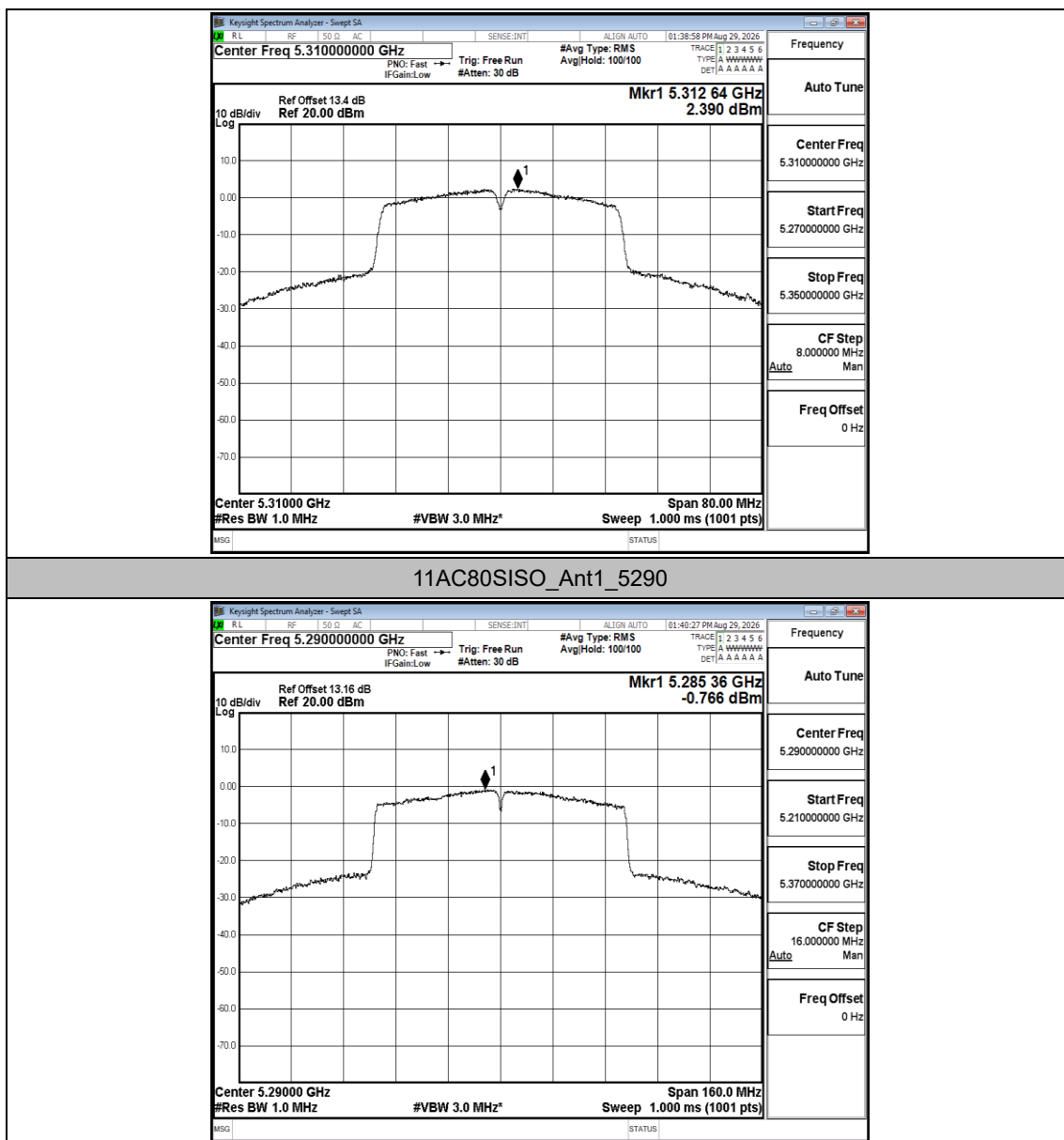












E.4 Emissions in Restricted Bands

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	5260	AV	4500.000	-57.96	≤-43.35	2.00	0.15	39.39	≤54	PASS
				AV	5147.800	-54.38	≤-43.35	2.00	0.15	42.97	≤54	PASS
				AV	5150.000	-54.11	≤-43.35	2.00	0.15	43.24	≤54	PASS
				Peak	4500.000	-51.26	≤-29.00	2.00	0.00	45.94	≤68.2	PASS
				Peak	5062.480	-44.13	≤-29.00	2.00	0.00	53.07	≤68.2	PASS
				Peak	5150.000	-46.22	≤-29.00	2.00	0.00	50.98	≤68.2	PASS
		High	5320	AV	5350.000	-57.11	≤-43.35	2.00	0.15	40.24	≤54	PASS
				AV	5352.480	-56.08	≤-43.35	2.00	0.15	41.27	≤54	PASS
				AV	5460.000	-60.49	≤-43.35	2.00	0.15	36.86	≤54	PASS
				Peak	5350.000	-47.81	≤-29.00	2.00	0.00	49.39	≤68.2	PASS
				Peak	5366.240	-47.36	≤-29.00	2.00	0.00	49.84	≤68.2	PASS
				Peak	5460.000	-53.81	≤-29.00	2.00	0.00	43.39	≤68.2	PASS
11N20SISO	Ant1	Low	5260	AV	4500.000	-57.79	≤-43.33	2.00	0.13	39.54	≤54	PASS
				AV	5141.480	-54.07	≤-43.33	2.00	0.13	43.26	≤54	PASS
				AV	5150.000	-54.49	≤-43.33	2.00	0.13	42.84	≤54	PASS
				Peak	4500.000	-50.93	≤-29.00	2.00	0.00	46.27	≤68.2	PASS
				Peak	5140.690	-44.64	≤-29.00	2.00	0.00	52.56	≤68.2	PASS
				Peak	5150.000	-46.24	≤-29.00	2.00	0.00	50.96	≤68.2	PASS
		High	5320	AV	5350.000	-56.28	≤-43.36	2.00	0.16	41.08	≤54	PASS
				AV	5350.880	-56.12	≤-43.36	2.00	0.16	41.24	≤54	PASS
				AV	5460.000	-60.56	≤-43.36	2.00	0.16	36.80	≤54	PASS
				Peak	5350.000	-46.84	≤-29.00	2.00	0.00	50.36	≤68.2	PASS
				Peak	5355.520	-45.6	≤-29.00	2.00	0.00	51.60	≤68.2	PASS
				Peak	5460.000	-52.97	≤-29.00	2.00	0.00	44.23	≤68.2	PASS
11N40SISO	Ant1	Low	5270	AV	4500.000	-58.21	≤-43.53	2.00	0.33	39.32	≤54	PASS
				AV	5144.640	-53.24	≤-43.53	2.00	0.33	44.29	≤54	PASS
				AV	5150.000	-53.58	≤-43.53	2.00	0.33	43.95	≤54	PASS
				Peak	4500.000	-50.69	≤-29.00	2.00	0.00	46.51	≤68.2	PASS
				Peak	5147.010	-40.69	≤-29.00	2.00	0.00	56.51	≤68.2	PASS
				Peak	5150.000	-44.28	≤-29.00	2.00	0.00	52.92	≤68.2	PASS
		High	5310	AV	5350.000	-55.51	≤-43.53	2.00	0.33	42.02	≤54	PASS
				AV	5351.040	-55.39	≤-43.53	2.00	0.33	42.14	≤54	PASS
				AV	5460.000	-60.9	≤-43.53	2.00	0.33	36.63	≤54	PASS
				Peak	5350.000	-44.88	≤-29.00	2.00	0.00	52.32	≤68.2	PASS

				Peak	5352.960	-43.99	≤-29.00	2.00	0.00	53.21	≤68.2	PASS
				Peak	5460.000	-52.83	≤-29.00	2.00	0.00	44.37	≤68.2	PASS
11AC20SISO	Ant1	Low	5260	AV	4500.000	-58	≤-43.36	2.00	0.16	39.36	≤54	PASS
				AV	5147.800	-54.36	≤-43.36	2.00	0.16	43.00	≤54	PASS
				AV	5150.000	-54.15	≤-43.36	2.00	0.16	43.21	≤54	PASS
				Peak	4500.000	-48.33	≤-29.00	2.00	0.00	48.87	≤68.2	PASS
				Peak	5102.770	-43.98	≤-29.00	2.00	0.00	53.22	≤68.2	PASS
				Peak	5150.000	-45.35	≤-29.00	2.00	0.00	51.85	≤68.2	PASS
		High	5320	AV	5350.000	-56.06	≤-43.36	2.00	0.16	41.30	≤54	PASS
				AV	5350.080	-56.06	≤-43.36	2.00	0.16	41.30	≤54	PASS
				AV	5460.000	-60.65	≤-43.36	2.00	0.16	36.71	≤54	PASS
				Peak	5350.000	-46.88	≤-29.00	2.00	0.00	50.32	≤68.2	PASS
				Peak	5355.680	-45.91	≤-29.00	2.00	0.00	51.29	≤68.2	PASS
				Peak	5460.000	-53.19	≤-29.00	2.00	0.00	44.01	≤68.2	PASS
11AC40SISO	Ant1	Low	5270	AV	4500.000	-58.29	≤-43.46	2.00	0.26	39.17	≤54	PASS
				AV	5147.800	-53.09	≤-43.46	2.00	0.26	44.37	≤54	PASS
				AV	5150.000	-53.17	≤-43.46	2.00	0.26	44.29	≤54	PASS
				Peak	4500.000	-48.59	≤-29.00	2.00	0.00	48.61	≤68.2	PASS
				Peak	5131.210	-43.24	≤-29.00	2.00	0.00	53.96	≤68.2	PASS
				Peak	5150.000	-45	≤-29.00	2.00	0.00	52.20	≤68.2	PASS
		High	5310	AV	5350.000	-56.05	≤-43.46	2.00	0.26	41.41	≤54	PASS
				AV	5350.240	-55.29	≤-43.46	2.00	0.26	42.17	≤54	PASS
				AV	5460.000	-60.46	≤-43.46	2.00	0.26	37.00	≤54	PASS
				Peak	5350.000	-46.23	≤-29.00	2.00	0.00	50.97	≤68.2	PASS
				Peak	5351.200	-46.1	≤-29.00	2.00	0.00	51.10	≤68.2	PASS
				Peak	5460.000	-52.14	≤-29.00	2.00	0.00	45.06	≤68.2	PASS
11AC80SISO	Ant1	Low	5290	AV	4500.000	-58.29	≤-43.83	2.00	0.63	39.54	≤54	PASS
				AV	5149.600	-44.65	≤-43.83	2.00	0.63	53.18	≤54	PASS
				AV	5150.000	-45.75	≤-43.83	2.00	0.63	52.08	≤54	PASS
				Peak	4500.000	-49.66	≤-29.00	2.00	0.00	47.54	≤68.2	PASS
				Peak	5146.400	-32.76	≤-29.00	2.00	0.00	64.44	≤68.2	PASS
				Peak	5150.000	-34.87	≤-29.00	2.00	0.00	62.33	≤68.2	PASS
		High	5290	AV	5350.000	-53.38	≤-43.83	2.00	0.63	44.45	≤54	PASS
				AV	5460.000	-60.63	≤-43.83	2.00	0.63	37.20	≤54	PASS
				AV	5350.000	-43.8	≤-29.00	2.00	0.00	53.40	≤54	PASS
				Peak	5365.000	-41.66	≤-29.00	2.00	0.00	55.54	≤68.2	PASS
				Peak	5460.000	-52.54	≤-29.00	2.00	0.00	44.66	≤68.2	PASS
				Peak	4500.000	-57.96	≤-43.35	2.00	0.15	39.39	≤68.2	PASS

Note:

1. The Antenna Gain is compensated in the graph.

Test Graphs

