

Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Smart Phone

Test Model: ULTRA S26

Environmental Conditions

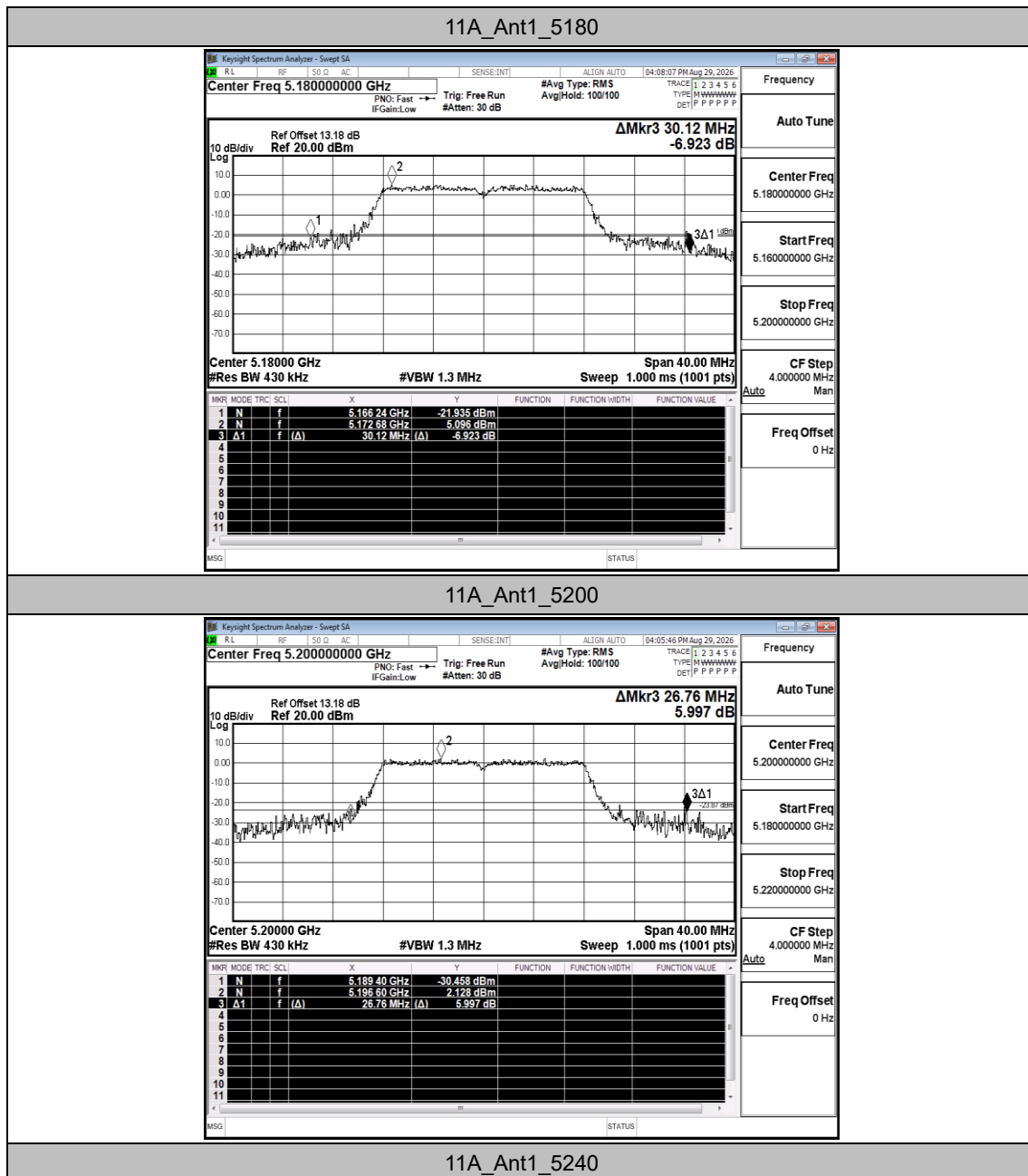
Temperature:	24.3°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

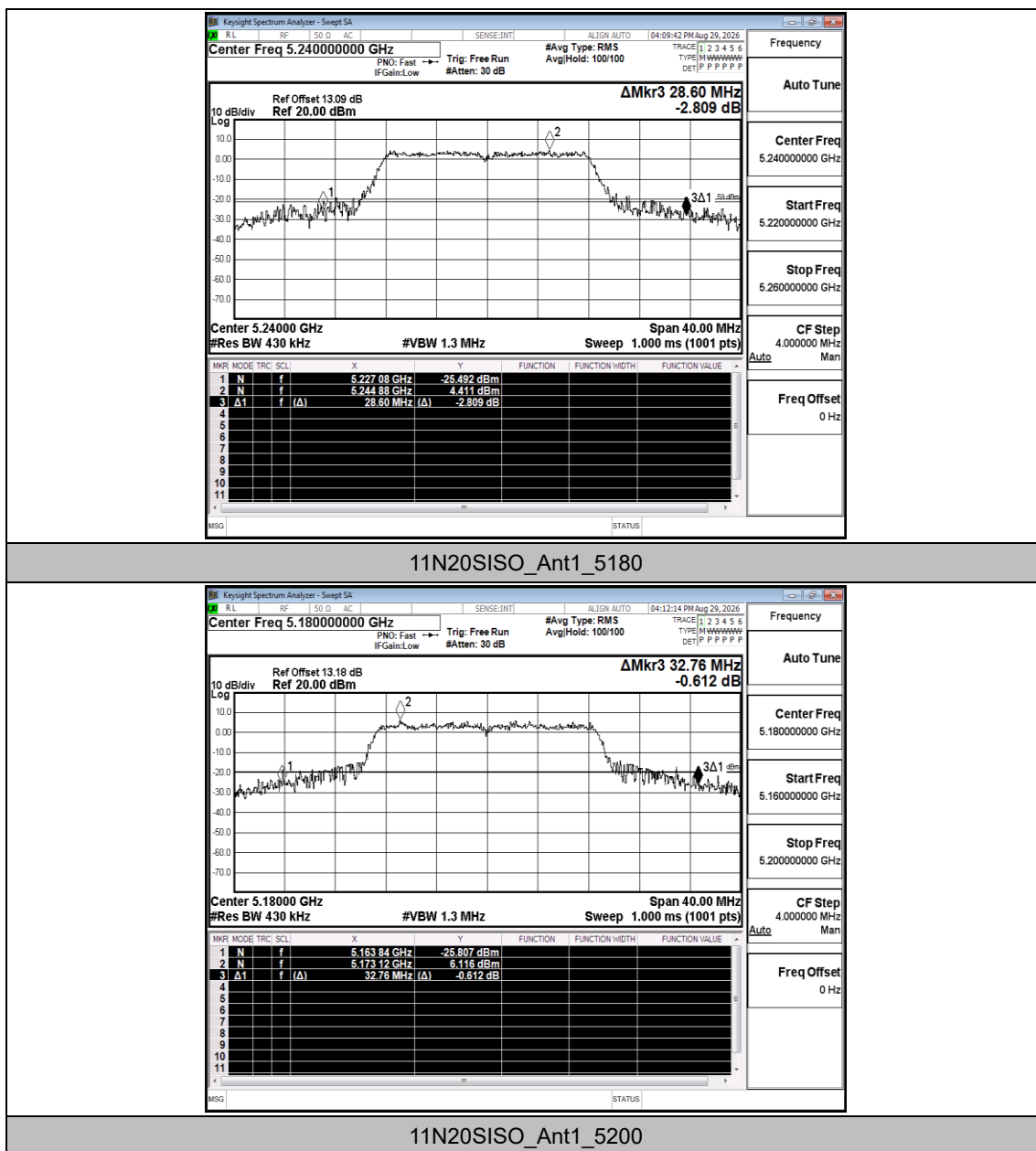
D.1 Emission Bandwidth

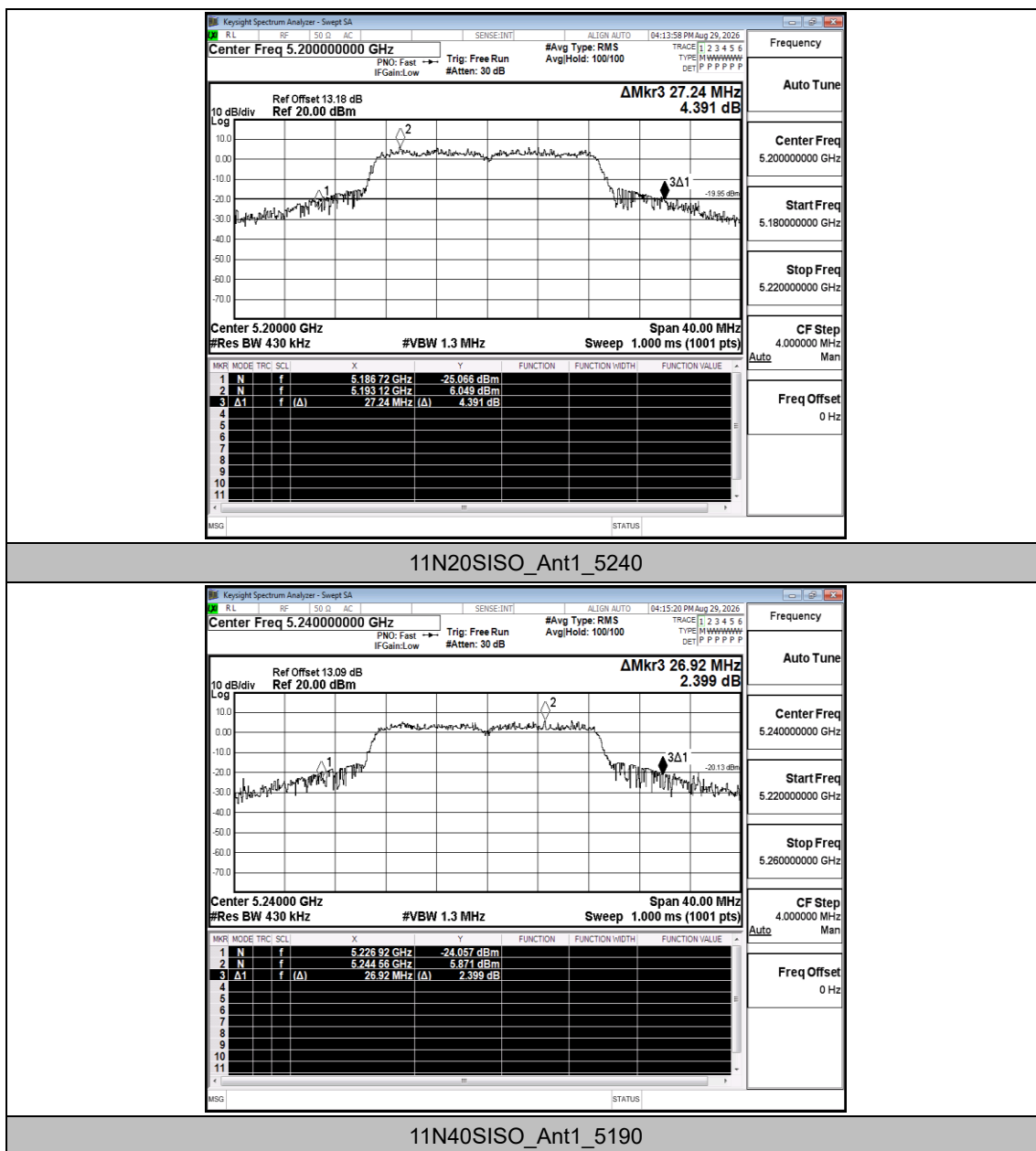
Test Result

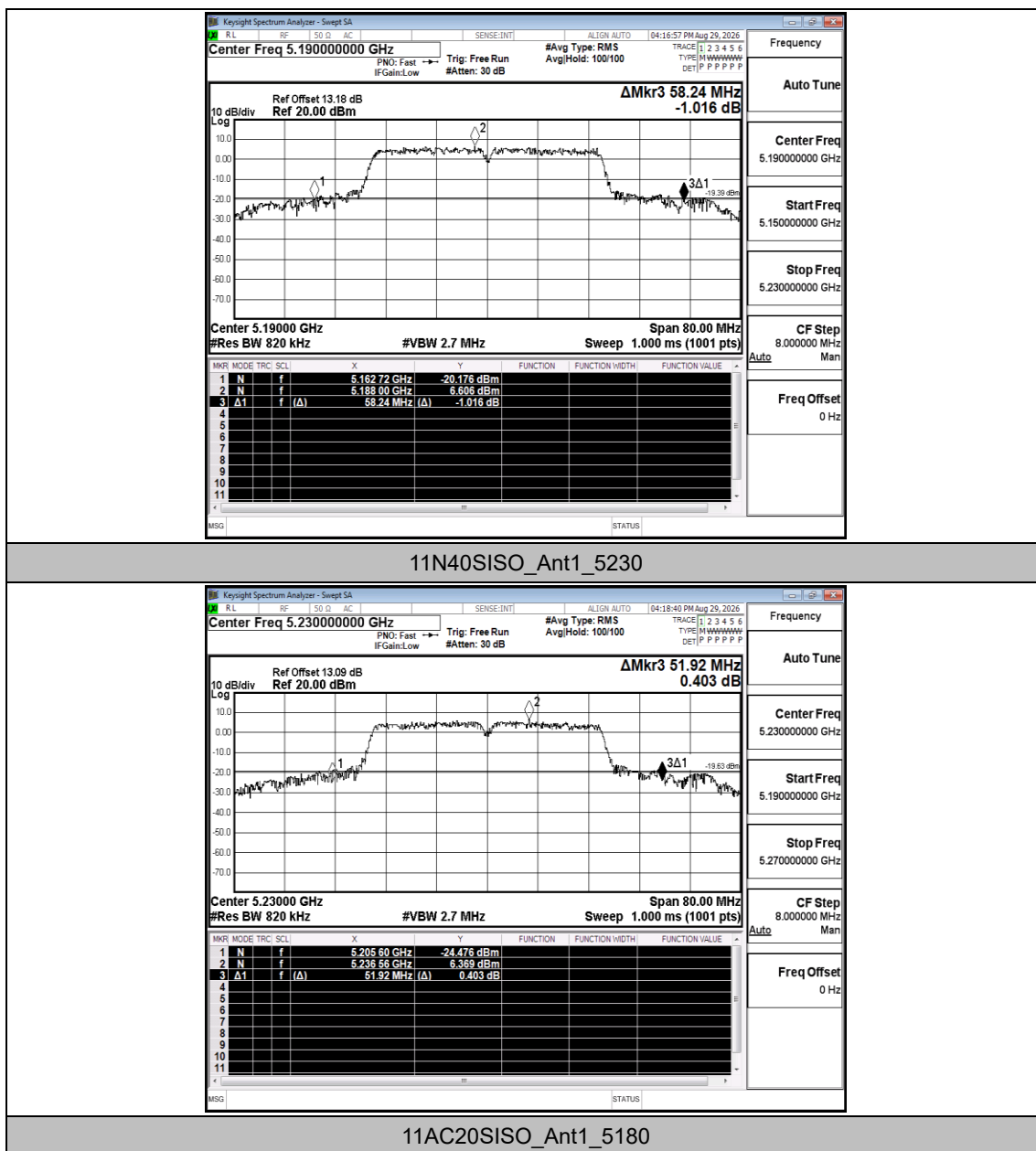
TestMode	Antenna	Freq (MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	30.120	5166.240	5196.360	---	---
		5200	26.760	5189.400	5216.160	---	---
		5240	28.600	5227.080	5255.680	---	---
11N20SISO	Ant1	5180	32.760	5163.840	5196.600	---	---
		5200	27.240	5186.720	5213.960	---	---
		5240	26.920	5226.920	5253.840	---	---
11N40SISO	Ant1	5190	58.240	5162.720	5220.960	---	---
		5230	51.920	5205.600	5257.520	---	---
11AC20SISO	Ant1	5180	28.240	5165.960	5194.200	---	---
		5200	29.320	5185.560	5214.880	---	---
		5240	27.240	5227.920	5255.160	---	---
11AC40SISO	Ant1	5190	45.440	5167.200	5212.640	---	---
		5230	46.160	5207.680	5253.840	---	---
11AC80SISO	Ant1	5210	105.280	5159.600	5264.880	---	---

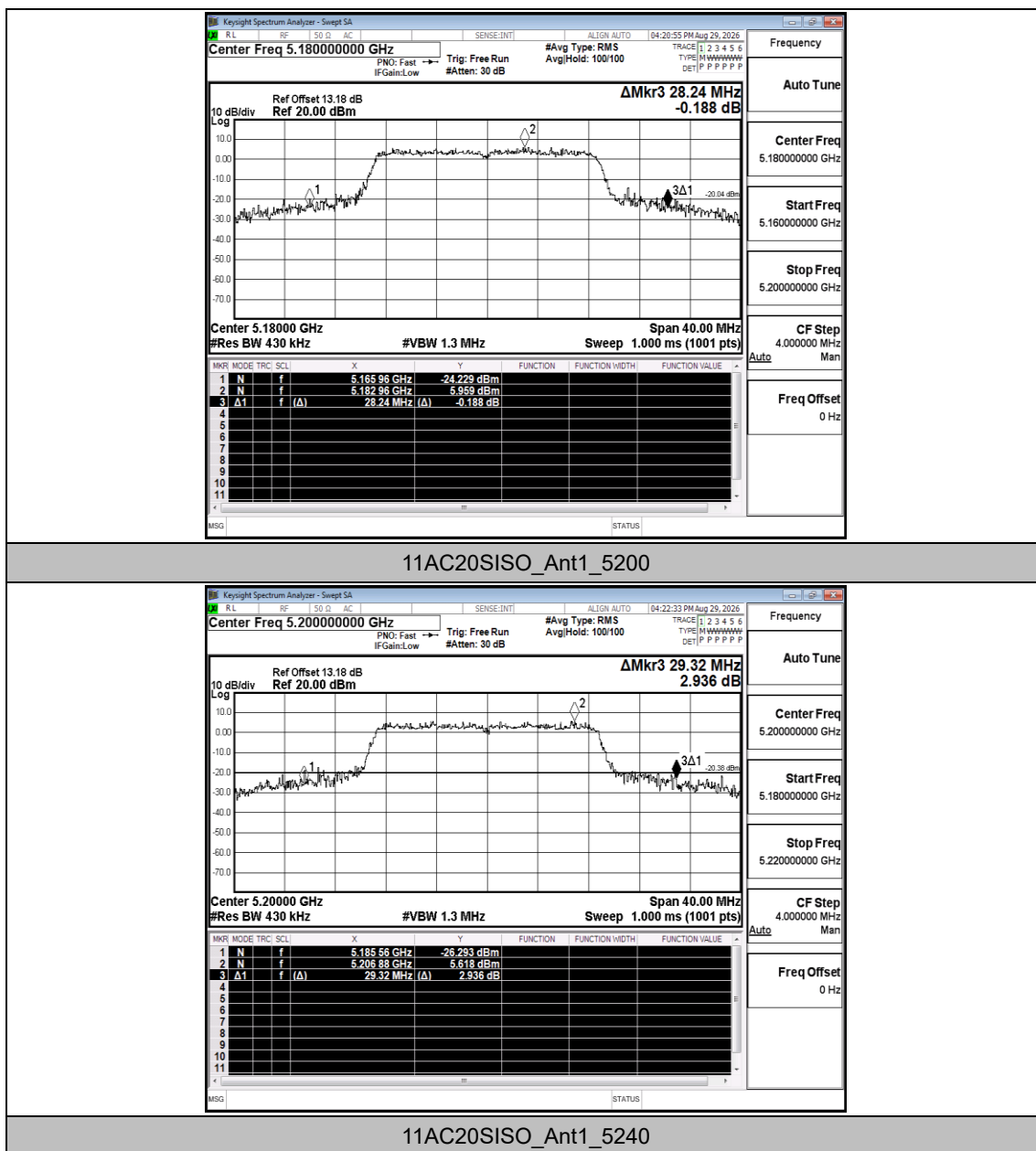
Test Graphs

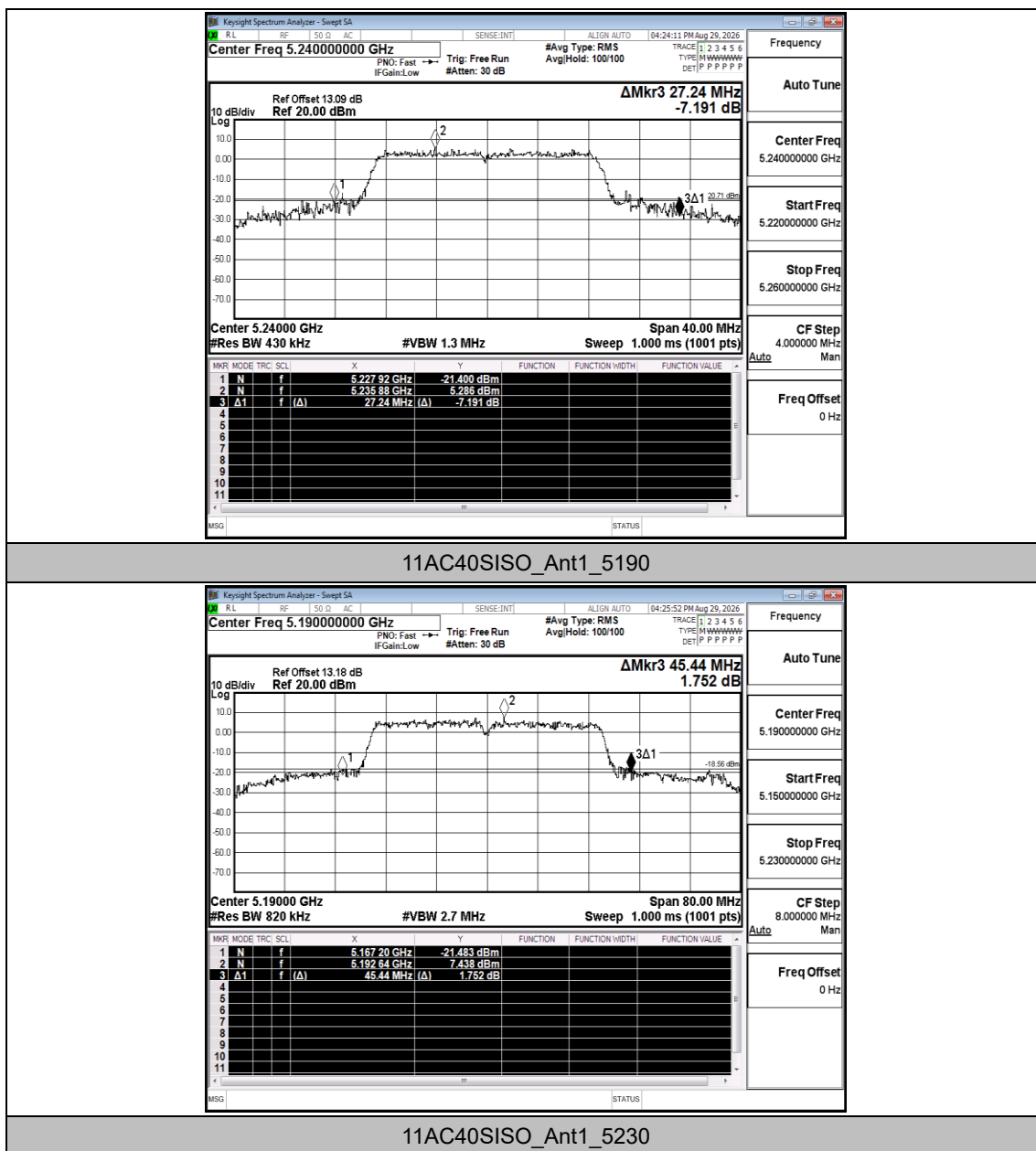


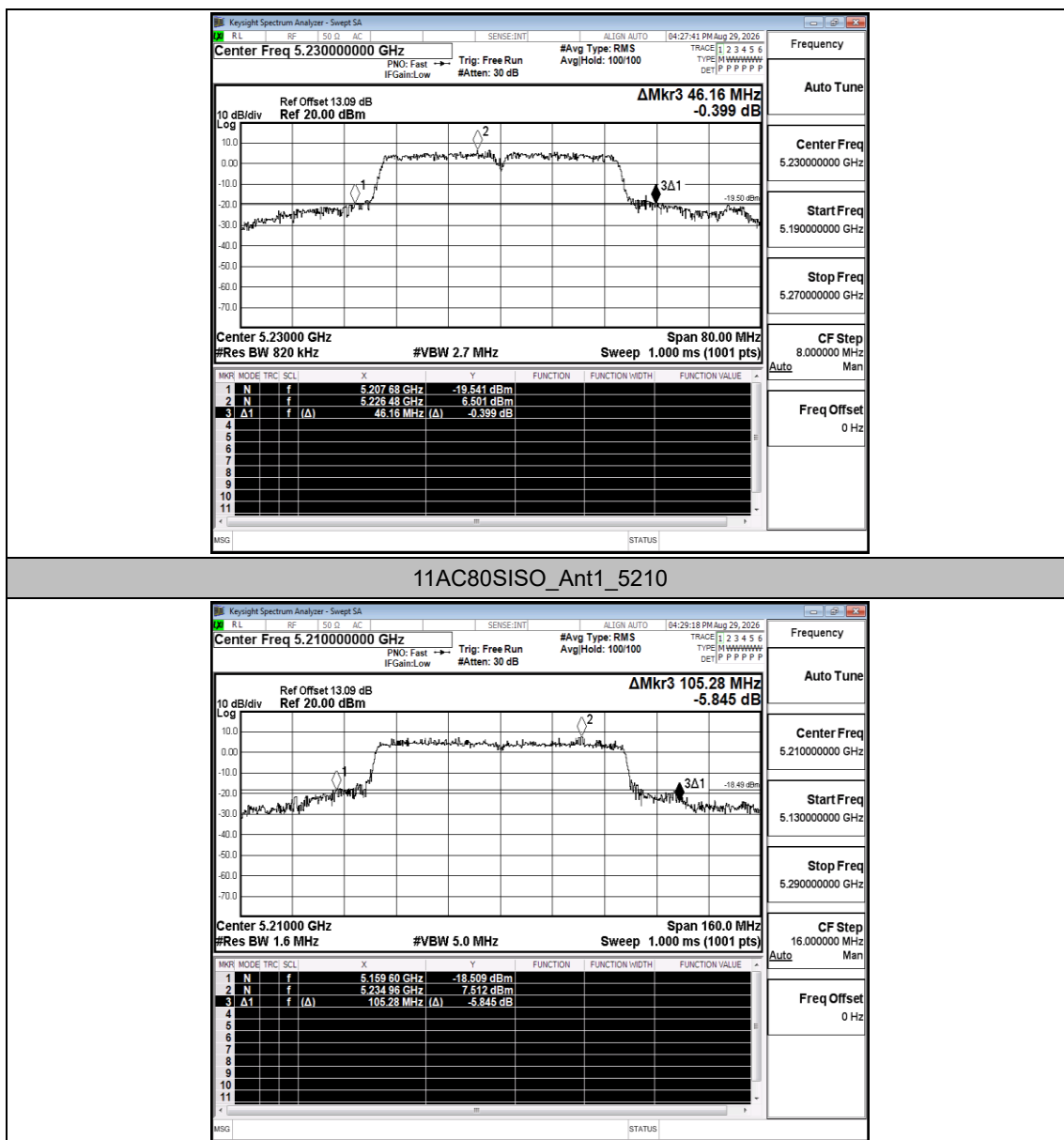












D.2 Maximum conducted output power

Test Result

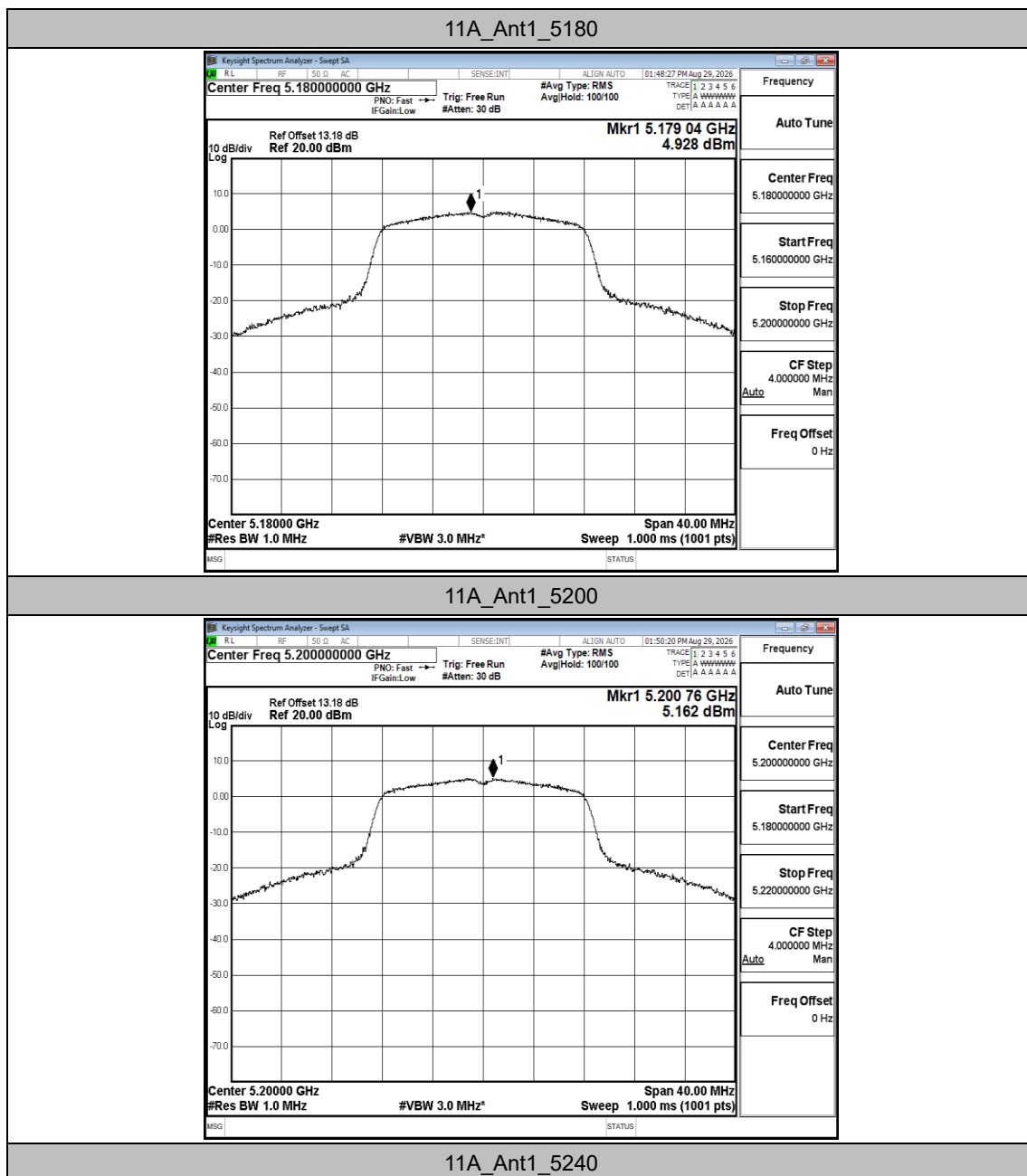
TestMode	Antenna	Freq (MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	NA	16.75	0.12	16.87	≤23.98	PASS
		5200	NA	16.95	0.12	17.07	≤23.98	PASS
		5240	NA	16.72	0.12	16.84	≤23.98	PASS
11N20SISO	Ant1	5180	NA	16.80	0.16	16.96	≤23.98	PASS
		5200	NA	16.80	0.13	16.93	≤23.98	PASS
		5240	NA	16.69	0.13	16.82	≤23.98	PASS
11N40SISO	Ant1	5190	NA	17.11	0.26	17.37	≤23.98	PASS
		5230	NA	17.07	0.26	17.33	≤23.98	PASS
11AC20SISO	Ant1	5180	NA	16.72	0.16	16.88	≤23.98	PASS
		5200	NA	16.68	0.16	16.84	≤23.98	PASS
		5240	NA	16.58	0.13	16.71	≤23.98	PASS
11AC40SISO	Ant1	5190	NA	16.92	0.26	17.18	≤23.98	PASS
		5230	NA	17.04	0.26	17.30	≤23.98	PASS
11AC80SISO	Ant1	5210	NA	16.82	0.63	17.45	≤23.98	PASS

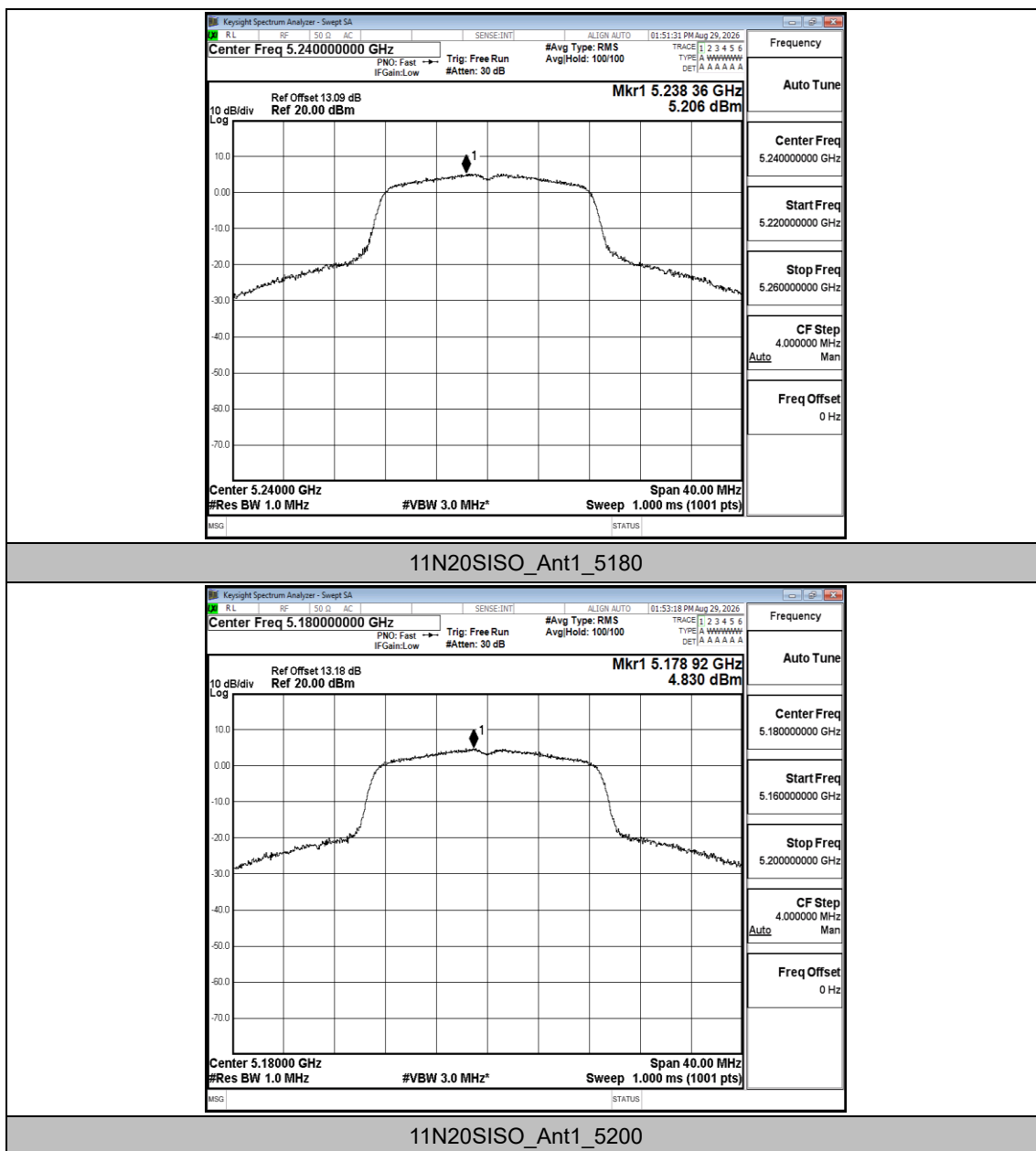
D.3 Maximum power spectral density

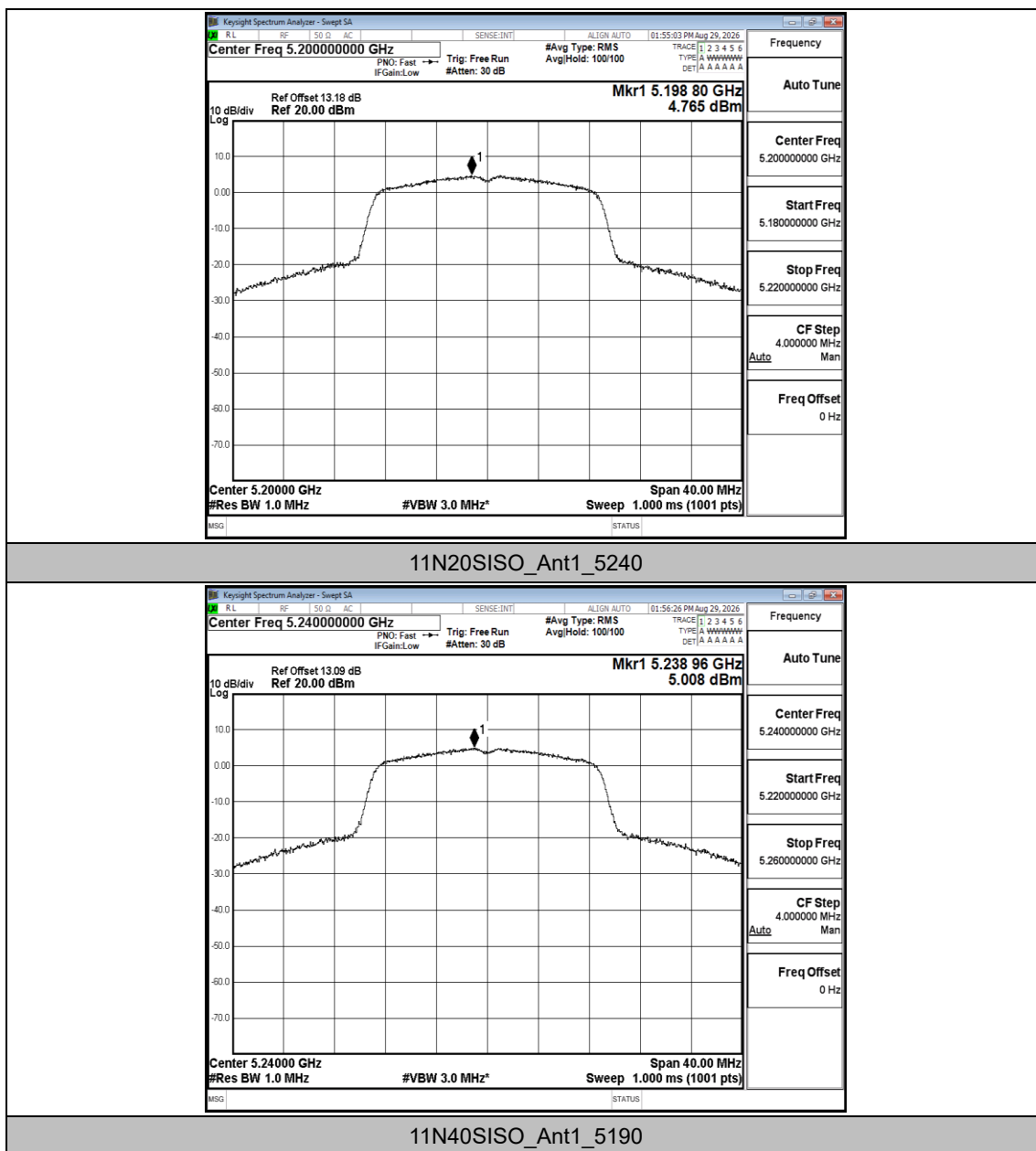
Test Result

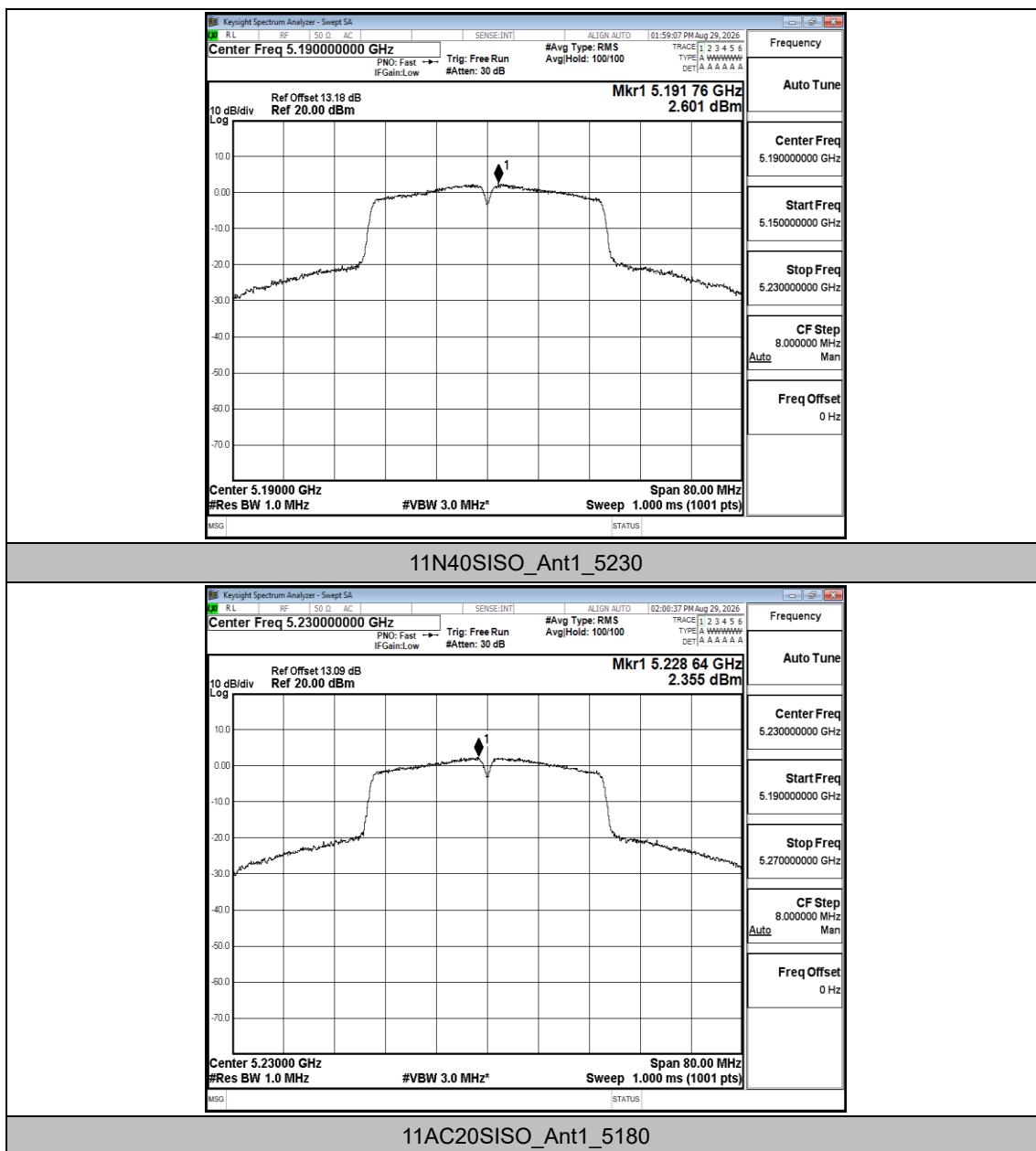
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	4.93	0.12	5.05	≤11.00	PASS
		5200	5.16	0.12	5.28	≤11.00	PASS
		5240	5.21	0.12	5.33	≤11.00	PASS
11N20SISO	Ant1	5180	4.83	0.16	4.99	≤11.00	PASS
		5200	4.77	0.13	4.90	≤11.00	PASS
		5240	5.01	0.13	5.14	≤11.00	PASS
11N40SISO	Ant1	5190	2.6	0.26	2.86	≤11.00	PASS
		5230	2.36	0.26	2.62	≤11.00	PASS
11AC20SISO	Ant1	5180	4.84	0.16	5.00	≤11.00	PASS
		5200	4.8	0.16	4.96	≤11.00	PASS
		5240	5.11	0.13	5.24	≤11.00	PASS
11AC40SISO	Ant1	5190	2.22	0.26	2.48	≤11.00	PASS
		5230	2.37	0.26	2.63	≤11.00	PASS
11AC80SISO	Ant1	5210	-0.75	0.63	-0.12	≤11.00	PASS

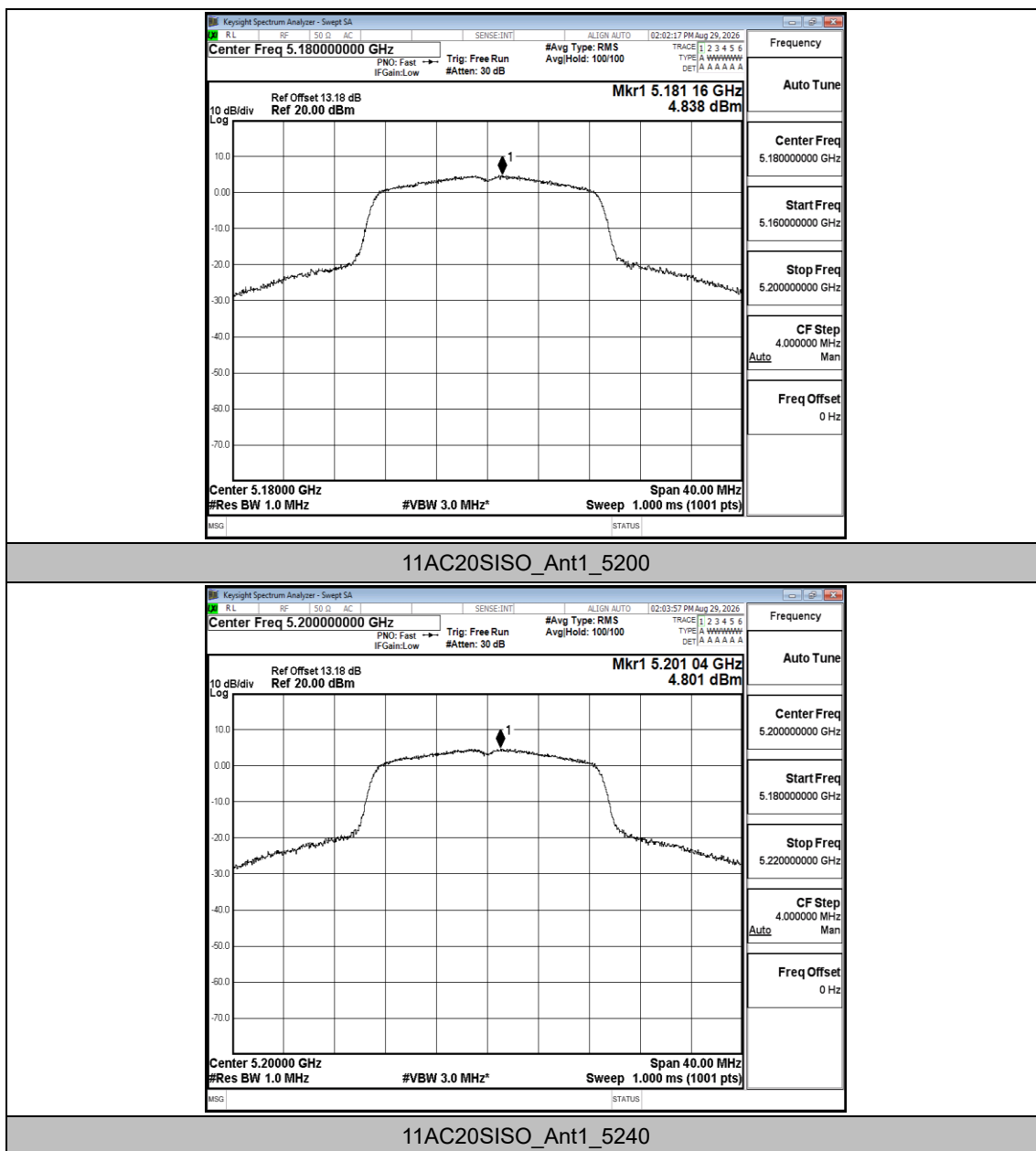
Test Graphs

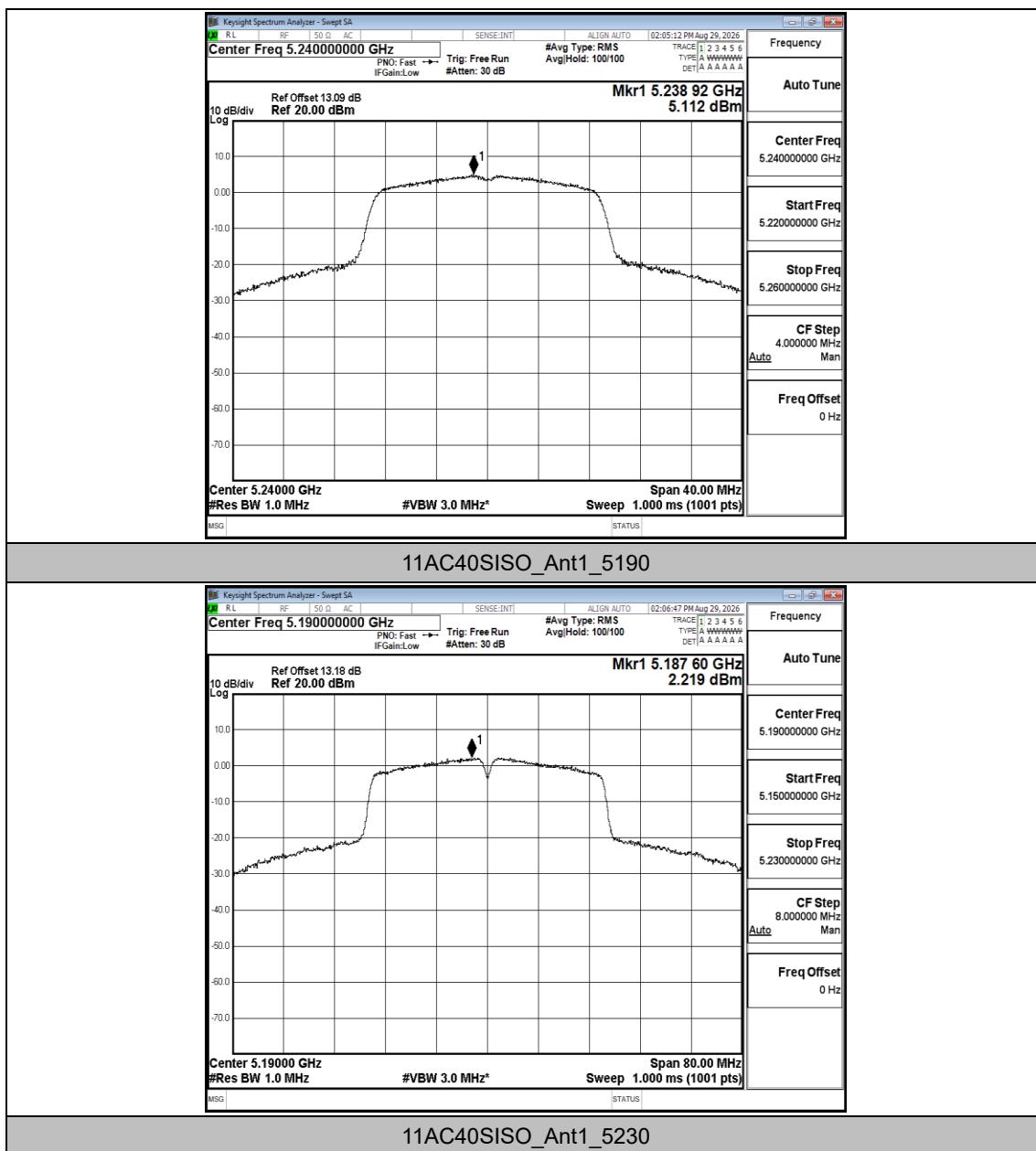


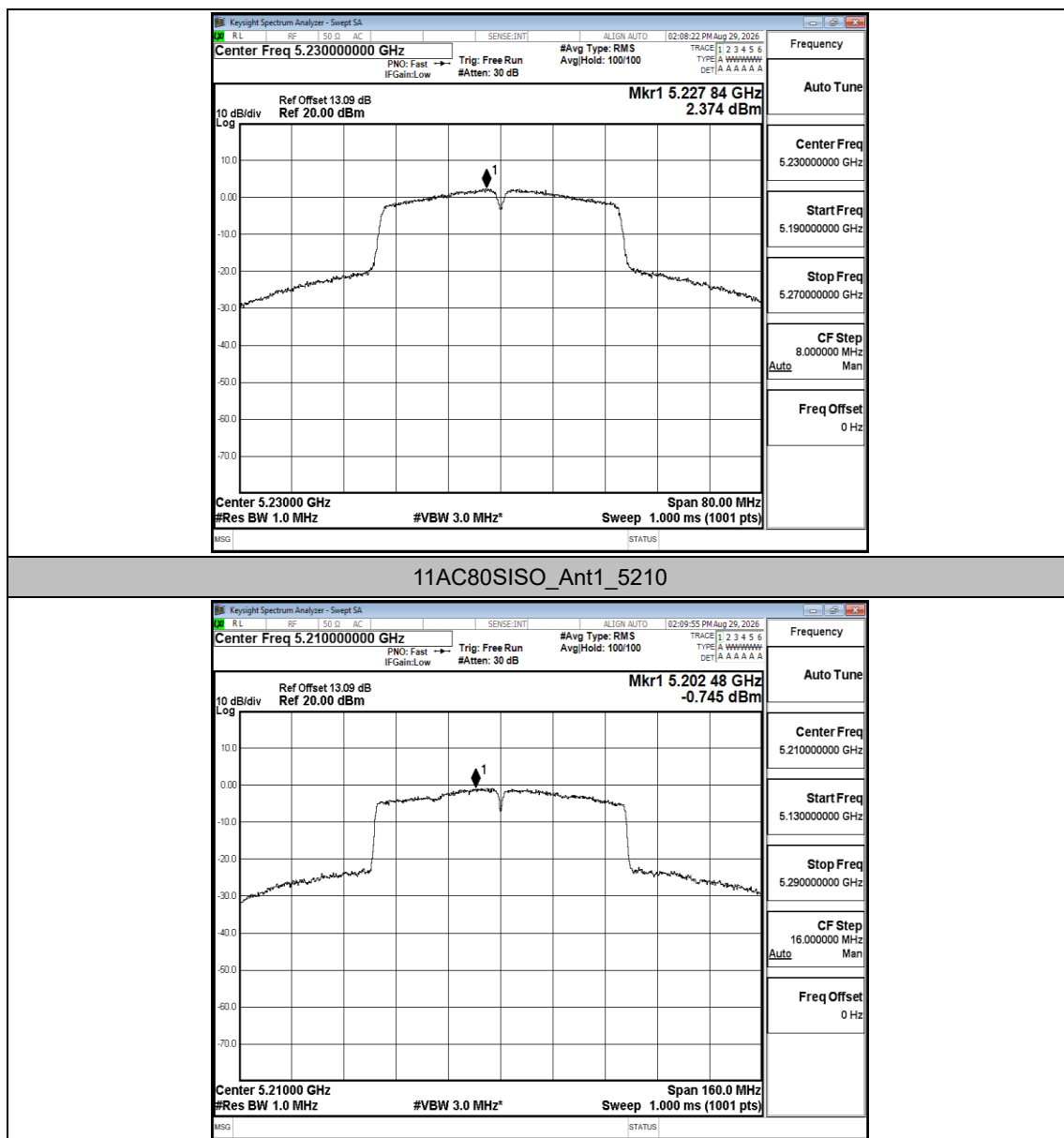












D.4 Emissions in Restricted Bands

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	5180	AV	4500.000	-58.22	≤-43.32	2.00	0.12	39.10	≤54	PASS
				AV	5145.400	-53.96	≤-43.32	2.00	0.12	43.36	≤54	PASS
				AV	5150.000	-53.95	≤-43.32	2.00	0.12	43.37	≤54	PASS
				Peak	4500.000	-49.33	≤-29.00	2.00	0.00	47.87	≤68.2	PASS
				Peak	4835.300	-44.96	≤-29.00	2.00	0.00	52.24	≤68.2	PASS
				Peak	5150.000	-44.59	≤-29.00	2.00	0.00	52.61	≤68.2	PASS
		High	5240	AV	5350.000	-55.04	≤-43.32	2.00	0.12	42.28	≤54	PASS
				AV	5350.320	-54.6	≤-43.32	2.00	0.12	42.72	≤54	PASS
				AV	5460.000	-57.24	≤-43.32	2.00	0.12	40.08	≤54	PASS
				Peak	5350.000	-47.87	≤-29.00	2.00	0.00	49.33	≤68.2	PASS
				Peak	5352.000	-44.92	≤-29.00	2.00	0.00	52.28	≤68.2	PASS
				Peak	5460.000	-48.53	≤-29.00	2.00	0.00	48.67	≤68.2	PASS
11N20SISO	Ant1	Low	5180	AV	4500.000	-58.19	≤-43.36	2.00	0.16	39.17	≤54	PASS
				AV	5146.100	-53.91	≤-43.36	2.00	0.16	43.45	≤54	PASS
				AV	5150.000	-54.14	≤-43.36	2.00	0.16	43.22	≤54	PASS
				Peak	4500.000	-50.73	≤-29.00	2.00	0.00	46.47	≤68.2	PASS
				Peak	5117.400	-44.79	≤-29.00	2.00	0.00	52.41	≤68.2	PASS
				Peak	5150.000	-47.44	≤-29.00	2.00	0.00	49.76	≤68.2	PASS
		High	5240	AV	5350.000	-54.66	≤-43.33	2.00	0.13	42.67	≤54	PASS
				AV	5350.800	-54.17	≤-43.33	2.00	0.13	43.16	≤54	PASS
				AV	5460.000	-57.42	≤-43.33	2.00	0.13	39.91	≤54	PASS
				Peak	5350.000	-47.3	≤-29.00	2.00	0.00	49.90	≤68.2	PASS
				Peak	5400.240	-44.31	≤-29.00	2.00	0.00	52.89	≤68.2	PASS
				Peak	5460.000	-48.8	≤-29.00	2.00	0.00	48.40	≤68.2	PASS
11N40SISO	Ant1	Low	5190	AV	4500.000	-58.51	≤-43.46	2.00	0.26	38.95	≤54	PASS
				AV	5112.500	-54.34	≤-43.46	2.00	0.26	43.12	≤54	PASS
				AV	5150.000	-54.79	≤-43.46	2.00	0.26	42.67	≤54	PASS
				Peak	4500.000	-48.09	≤-29.00	2.00	0.00	49.11	≤68.2	PASS
				Peak	5147.500	-44.34	≤-29.00	2.00	0.00	52.86	≤68.2	PASS
				Peak	5150.000	-45.64	≤-29.00	2.00	0.00	51.56	≤68.2	PASS
		High	5230	AV	5350.000	-51.8	≤-43.46	2.00	0.26	45.66	≤54	PASS
				AV	5350.020	-51.8	≤-43.46	2.00	0.26	45.66	≤54	PASS
				AV	5460.000	-57.62	≤-43.46	2.00	0.26	39.84	≤54	PASS
				Peak	5350.000	-42.51	≤-29.00	2.00	0.00	54.69	≤68.2	PASS

11AC20SISO	Ant1	Low	5180	Peak	5360.940	-37.55	≤-29.00	2.00	0.00	59.65	≤68.2	PASS
				Peak	5460.000	-49.08	≤-29.00	2.00	0.00	48.12	≤68.2	PASS
				AV	4500.000	-57.91	≤-43.36	2.00	0.16	39.45	≤54	PASS
				AV	5145.400	-53.87	≤-43.36	2.00	0.16	43.49	≤54	PASS
				AV	5150.000	-54.11	≤-43.36	2.00	0.16	43.25	≤54	PASS
				Peak	4500.000	-49.45	≤-29.00	2.00	0.00	47.75	≤68.2	PASS
		High	5240	Peak	5075.400	-44.21	≤-29.00	2.00	0.00	52.99	≤68.2	PASS
				Peak	5150.000	-46.09	≤-29.00	2.00	0.00	51.11	≤68.2	PASS
				AV	5350.000	-54.8	≤-43.33	2.00	0.13	42.53	≤54	PASS
				AV	5351.760	-54.42	≤-43.33	2.00	0.13	42.91	≤54	PASS
				AV	5460.000	-57.49	≤-43.33	2.00	0.13	39.84	≤54	PASS
				Peak	5350.000	-46.7	≤-29.00	2.00	0.00	50.50	≤68.2	PASS
11AC40SISO	Ant1	Low	5190	Peak	5366.160	-44.69	≤-29.00	2.00	0.00	52.51	≤68.2	PASS
				Peak	5460.000	-49.84	≤-29.00	2.00	0.00	47.36	≤68.2	PASS
				AV	4500.000	-57.92	≤-43.46	2.00	0.26	39.54	≤54	PASS
				AV	5144.700	-54.38	≤-43.46	2.00	0.26	43.08	≤54	PASS
				AV	5150.000	-55.44	≤-43.46	2.00	0.26	42.02	≤54	PASS
				Peak	4500.000	-49.75	≤-29.00	2.00	0.00	47.45	≤68.2	PASS
		High	5230	Peak	5137.000	-44.91	≤-29.00	2.00	0.00	52.29	≤68.2	PASS
				Peak	5150.000	-44.7	≤-29.00	2.00	0.00	52.50	≤68.2	PASS
				AV	5350.000	-52.3	≤-43.46	2.00	0.26	45.16	≤54	PASS
				AV	5350.540	-51.56	≤-43.46	2.00	0.26	45.90	≤54	PASS
				AV	5460.000	-56.75	≤-43.46	2.00	0.26	40.71	≤54	PASS
				Peak	5350.000	-43.92	≤-29.00	2.00	0.00	53.28	≤68.2	PASS
11AC80SISO	Ant1	Low	5210	Peak	5351.580	-41.48	≤-29.00	2.00	0.00	55.72	≤68.2	PASS
				Peak	5460.000	-47.82	≤-29.00	2.00	0.00	49.38	≤68.2	PASS
				AV	4500.000	-58.06	≤-43.83	2.00	0.63	39.77	≤54	PASS
				AV	5145.000	-54.14	≤-43.83	2.00	0.63	43.69	≤54	PASS
				AV	5150.000	-54.51	≤-43.83	2.00	0.63	43.32	≤54	PASS
				Peak	4500.000	-50.26	≤-29.00	2.00	0.00	46.94	≤68.2	PASS
		High	5210	Peak	5120.250	-43.73	≤-29.00	2.00	0.00	53.47	≤68.2	PASS
				Peak	5150.000	-45.93	≤-29.00	2.00	0.00	51.27	≤68.2	PASS
				AV	5350.000	-56.98	≤-43.83	2.00	0.63	40.85	≤54	PASS
				AV	5351.080	-56.08	≤-43.83	2.00	0.63	41.75	≤54	PASS
				AV	5460.000	-57.12	≤-43.83	2.00	0.63	40.71	≤54	PASS
				Peak	5350.000	-49.4	≤-29.00	2.00	0.00	47.80	≤68.2	PASS
				Peak	5351.080	-46.76	≤-29.00	2.00	0.00	50.44	≤68.2	PASS
				Peak	5460.000	-50.01	≤-29.00	2.00	0.00	47.19	≤68.2	PASS

Note:

1. The Antenna Gain is compensated in the graph.

Test Graphs

