

Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Smart Phone

Test Model: NOTE 18

Environmental Conditions

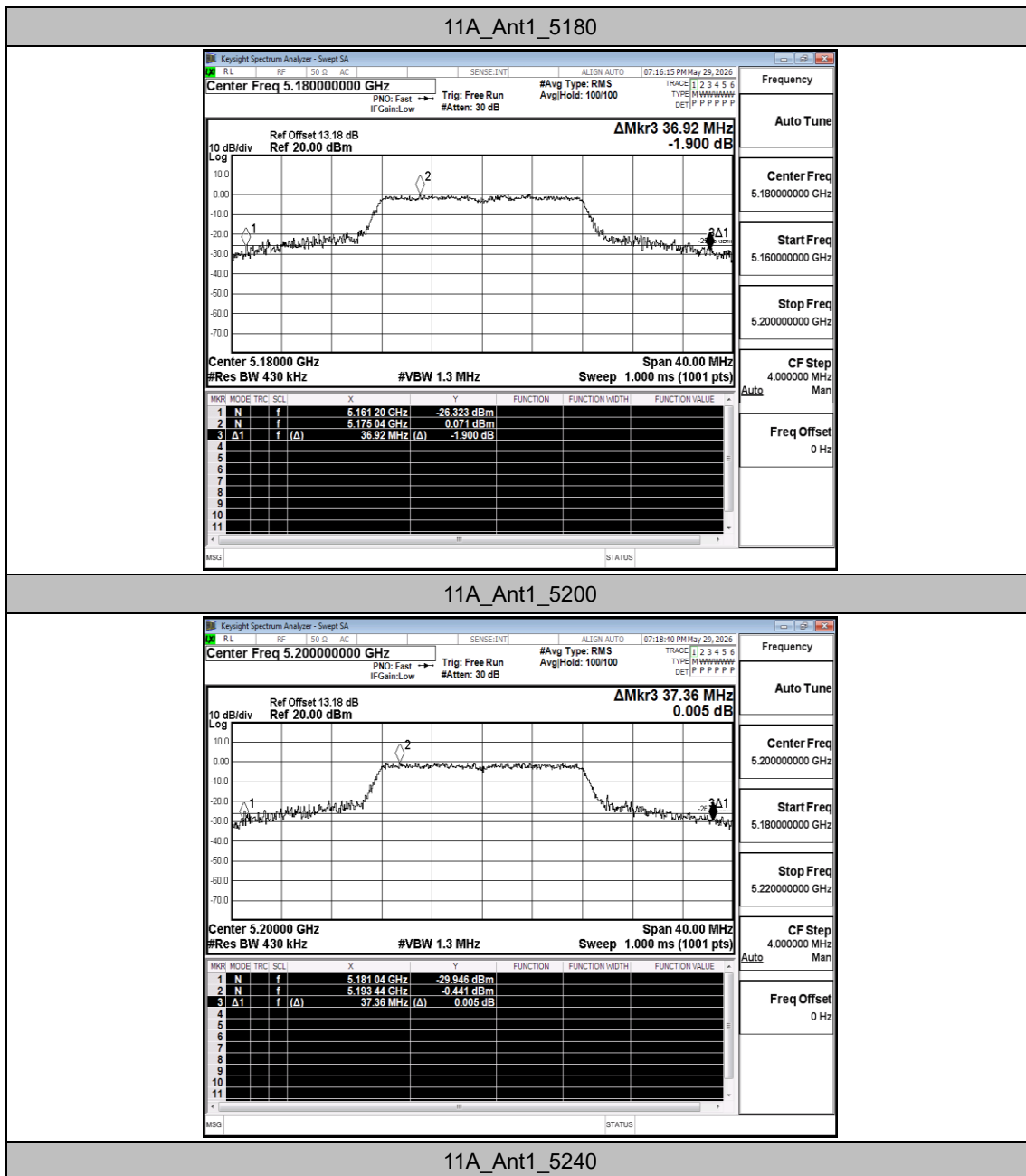
Temperature:	24.6°C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

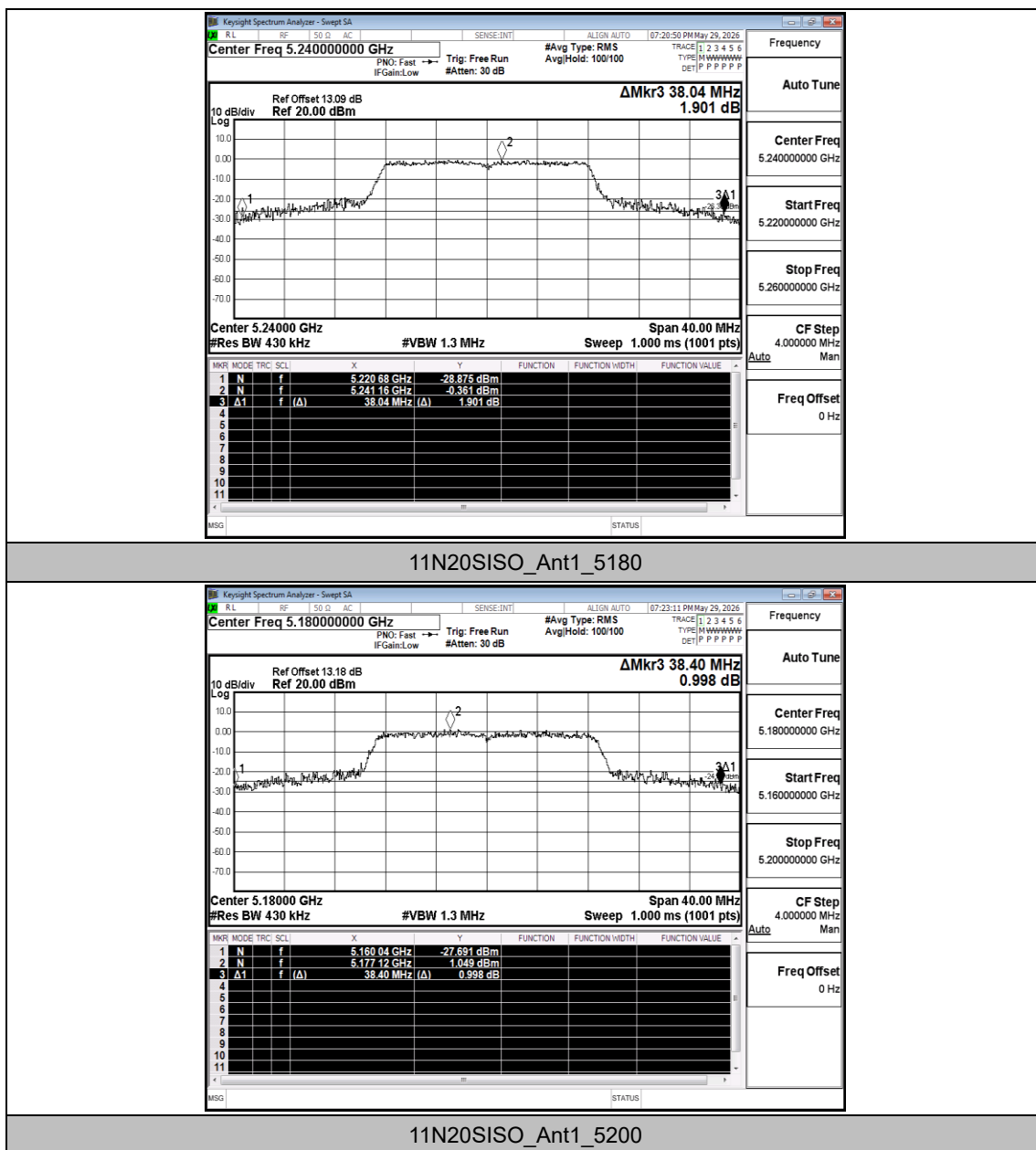
D.1 26dB Emission Bandwidth

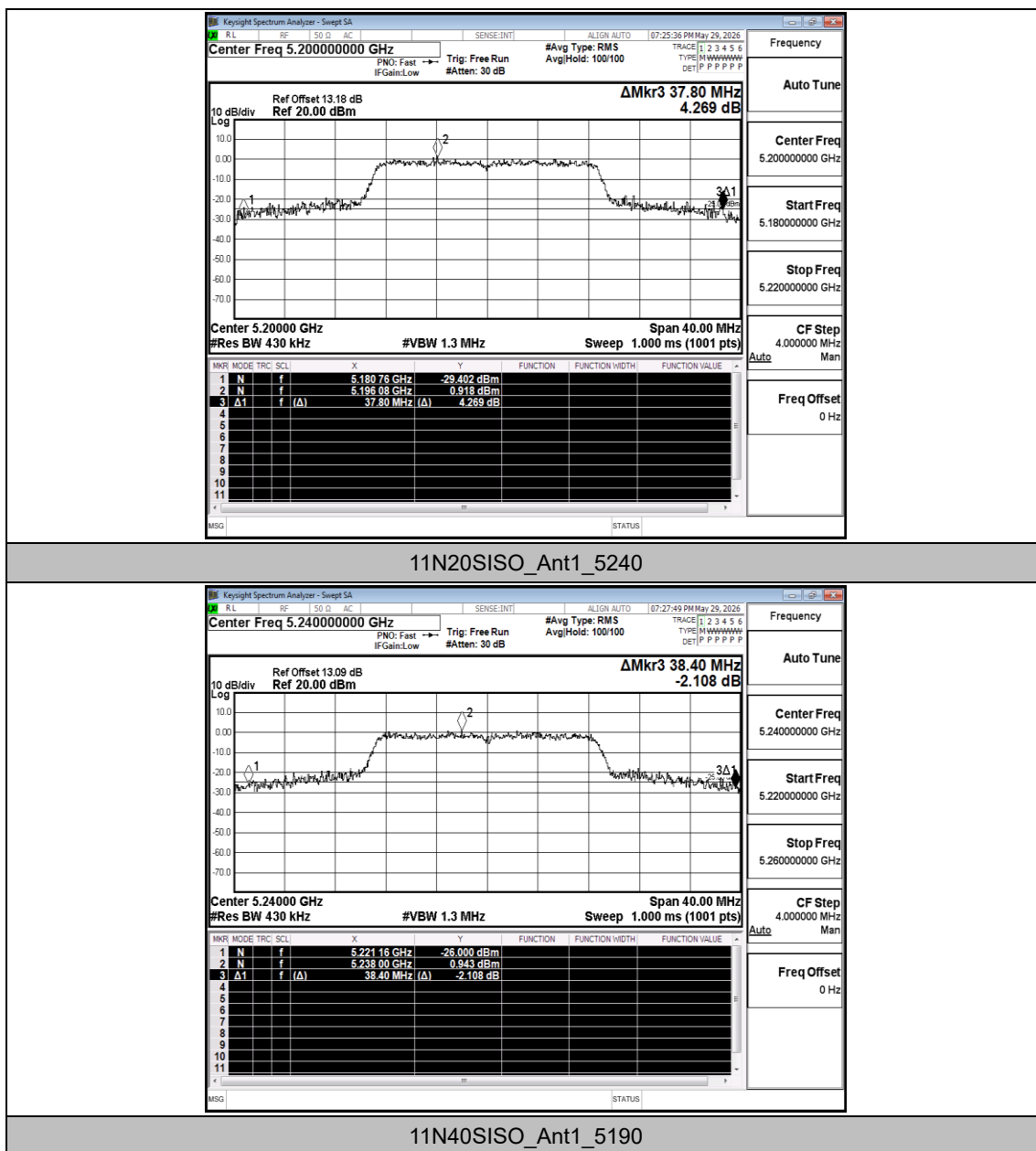
Test Result

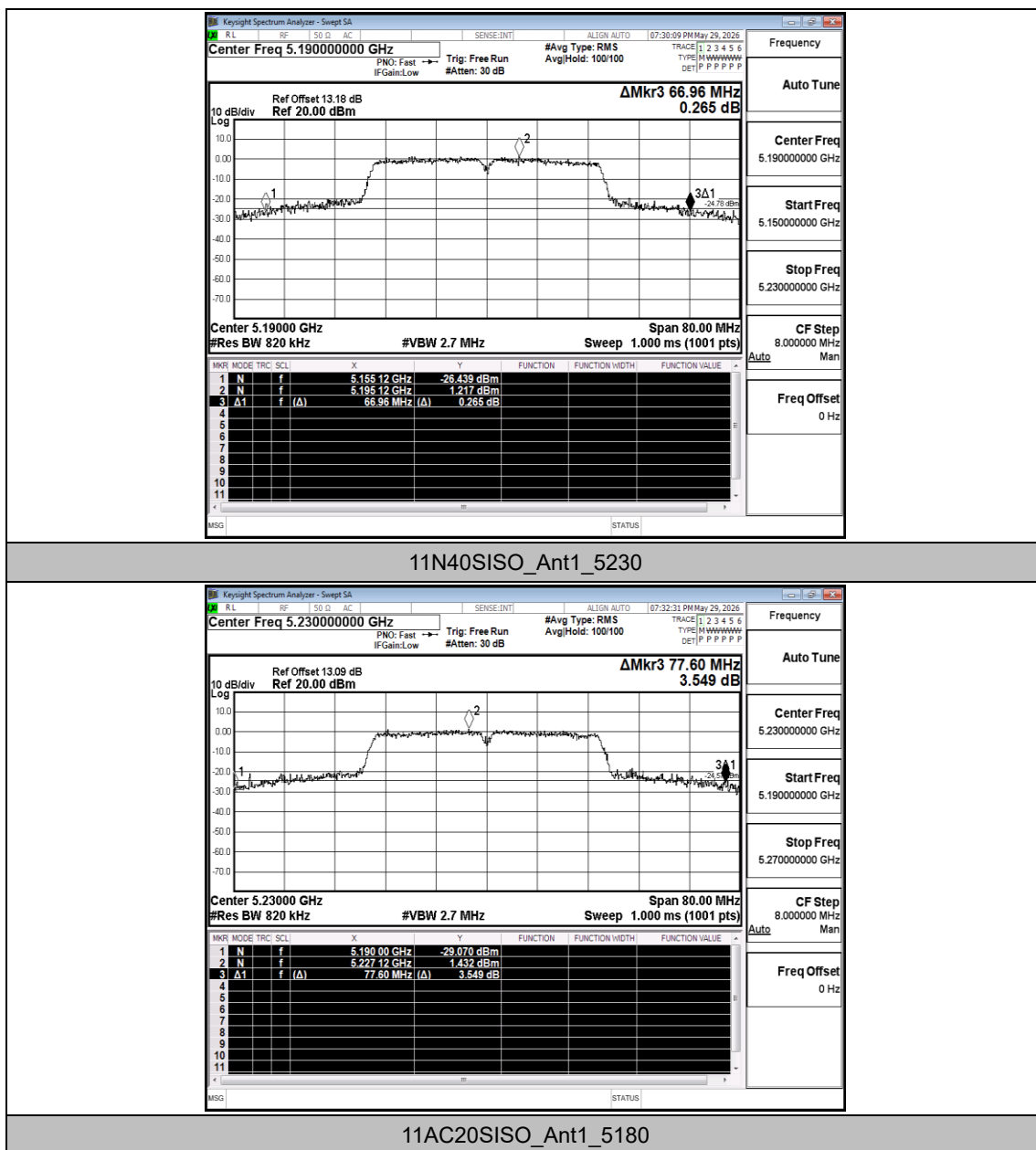
TestMode	Antenna	Freq (MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	36.920	5161.200	5198.120	---	---
		5200	37.360	5181.040	5218.400	---	---
		5240	38.040	5220.680	5258.720	---	---
11N20SISO	Ant1	5180	38.400	5160.040	5198.440	---	---
		5200	37.800	5180.760	5218.560	---	---
		5240	38.400	5221.160	5259.560	---	---
11N40SISO	Ant1	5190	66.960	5155.120	5222.080	---	---
		5230	77.600	5190.000	5267.600	---	---
11AC20SISO	Ant1	5180	38.400	5161.040	5199.440	---	---
		5200	38.720	5180.120	5218.840	---	---
		5240	39.320	5220.560	5259.880	---	---
11AC40SISO	Ant1	5190	76.800	5150.800	5227.600	---	---
		5230	79.360	5190.320	5269.680	---	---
11AC80SISO	Ant1	5210	155.840	5130.960	5286.800	---	---

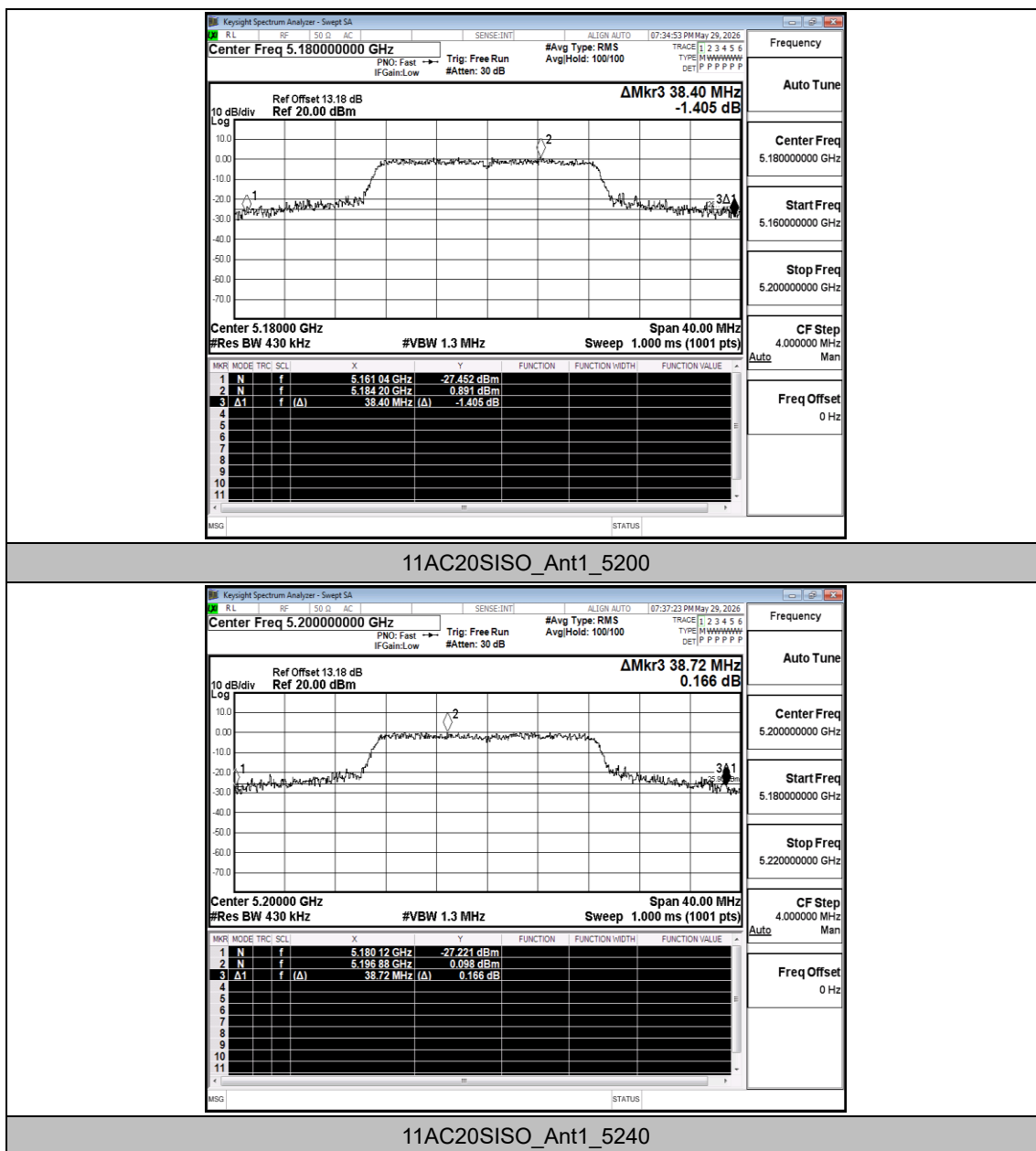
Test Graphs

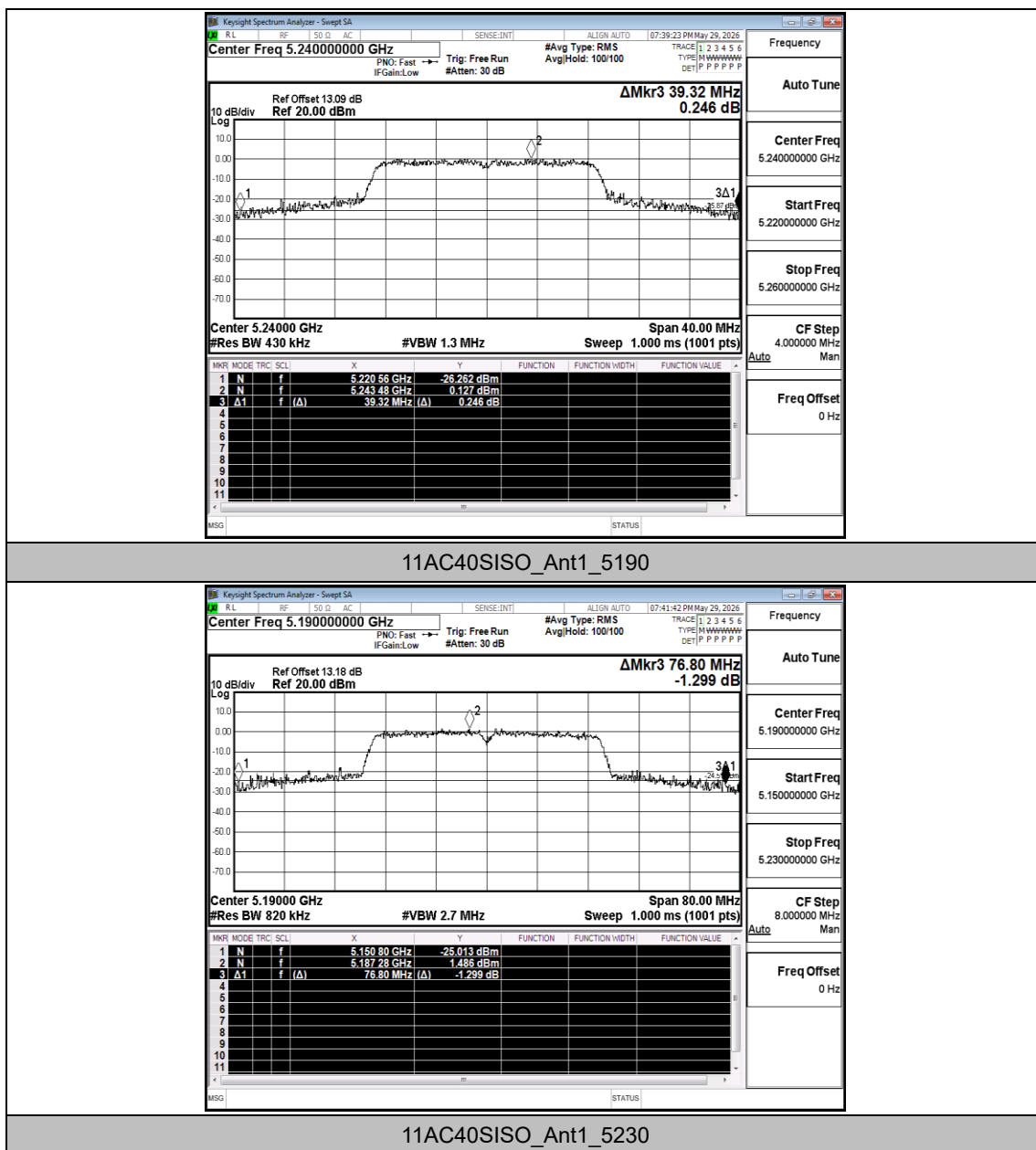


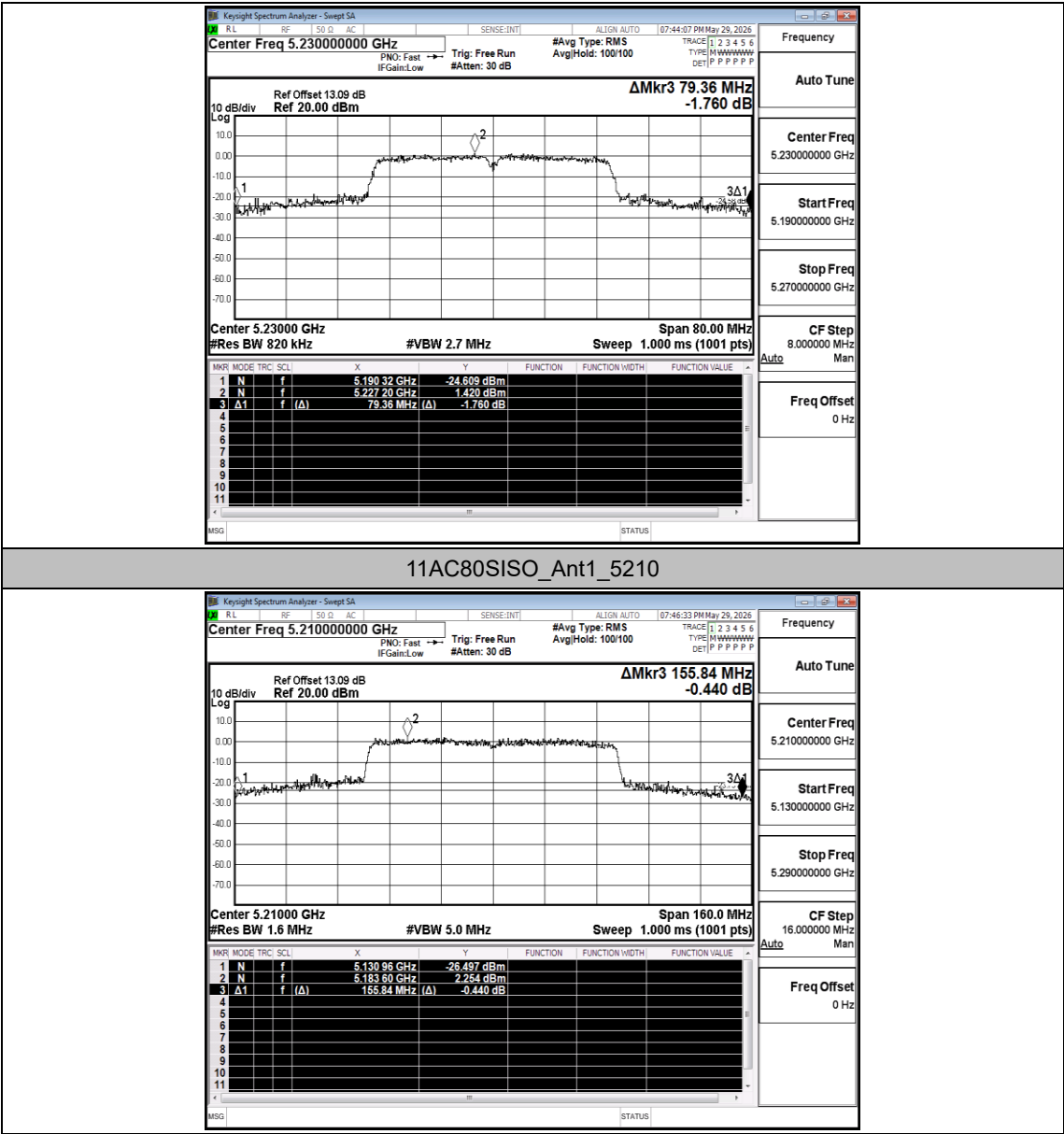












D.2 Maximum conducted output power

Test Result

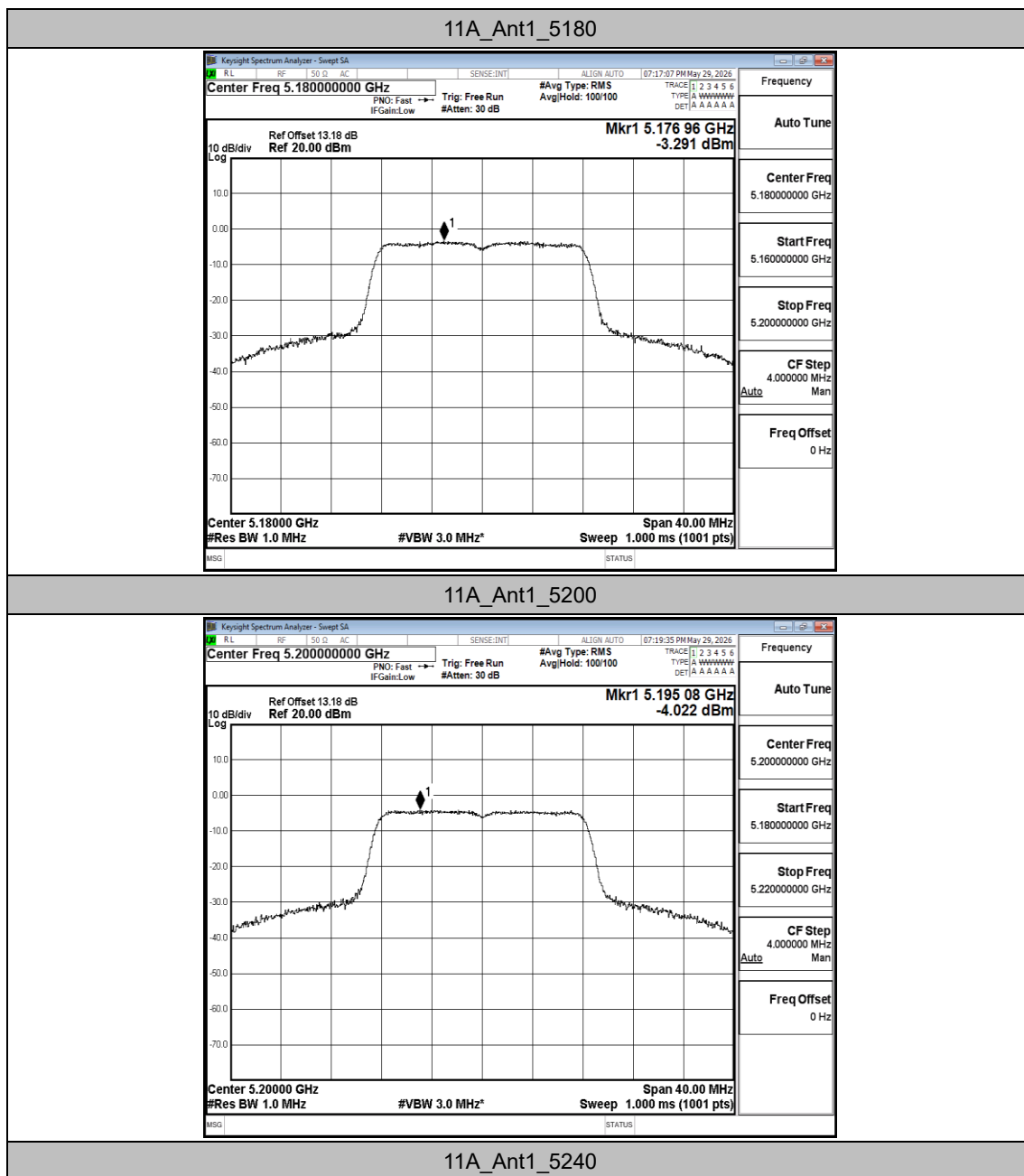
TestMode	Antenna	Freq (MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	NA	8.75	0.18	8.93	≤23.98	PASS
		5200	NA	8.26	0.18	8.44	≤23.98	PASS
		5240	NA	8.23	0.18	8.41	≤23.98	PASS
11N20SISO	Ant1	5180	NA	8.96	0.22	9.18	≤23.98	PASS
		5200	NA	8.46	0.22	8.68	≤23.98	PASS
		5240	NA	8.41	0.22	8.63	≤23.98	PASS
11N40SISO	Ant1	5190	NA	8.36	0.42	8.78	≤23.98	PASS
		5230	NA	8.22	0.43	8.65	≤23.98	PASS
11AC20SISO	Ant1	5180	NA	8.93	0.21	9.14	≤23.98	PASS
		5200	NA	8.45	0.21	8.66	≤23.98	PASS
		5240	NA	8.34	0.21	8.55	≤23.98	PASS
11AC40SISO	Ant1	5190	NA	8.19	0.42	8.61	≤23.98	PASS
		5230	NA	8.15	0.42	8.57	≤23.98	PASS
11AC80SISO	Ant1	5210	NA	7.99	0.79	8.78	≤23.98	PASS

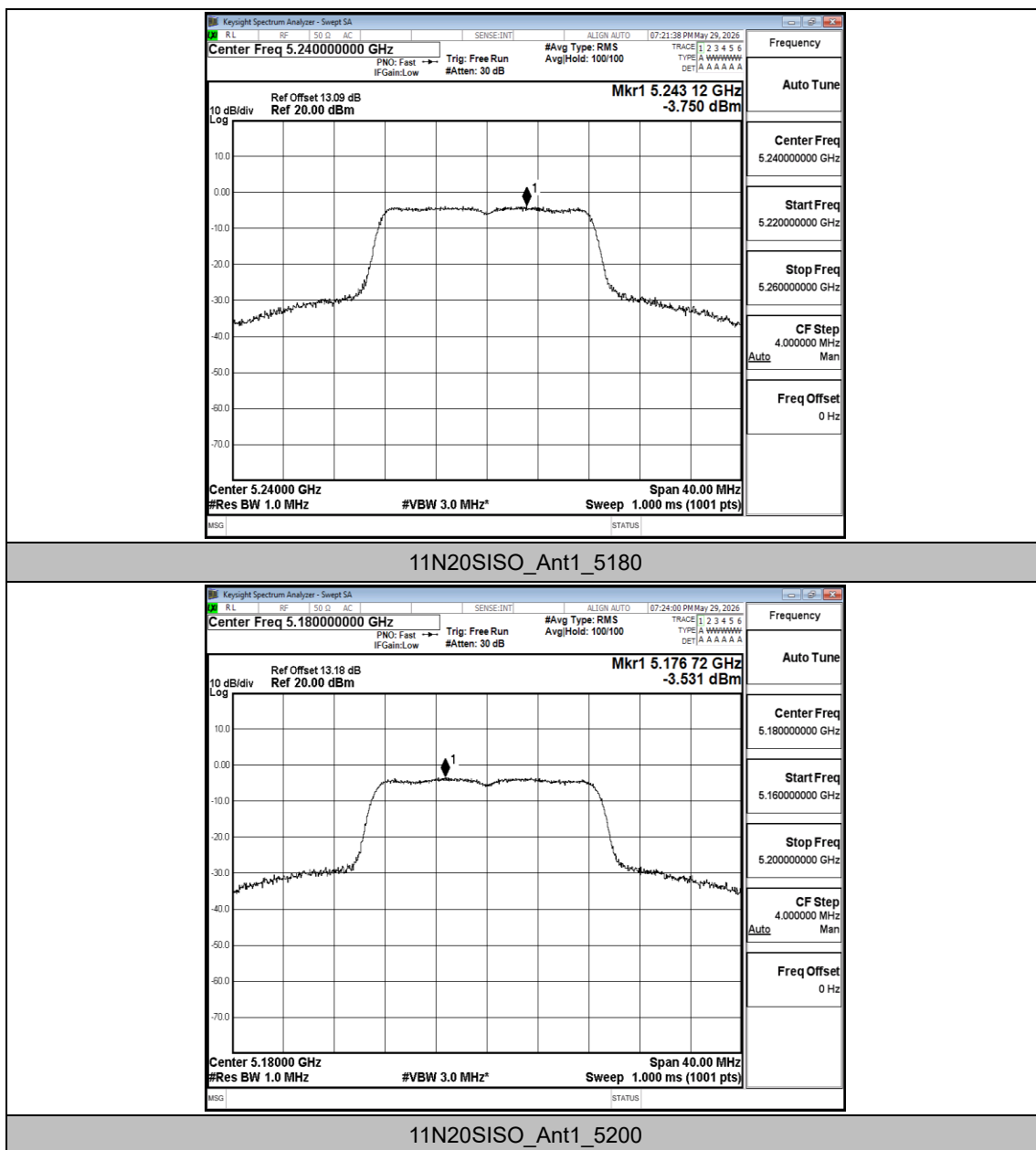
D.3 Maximum power spectral density

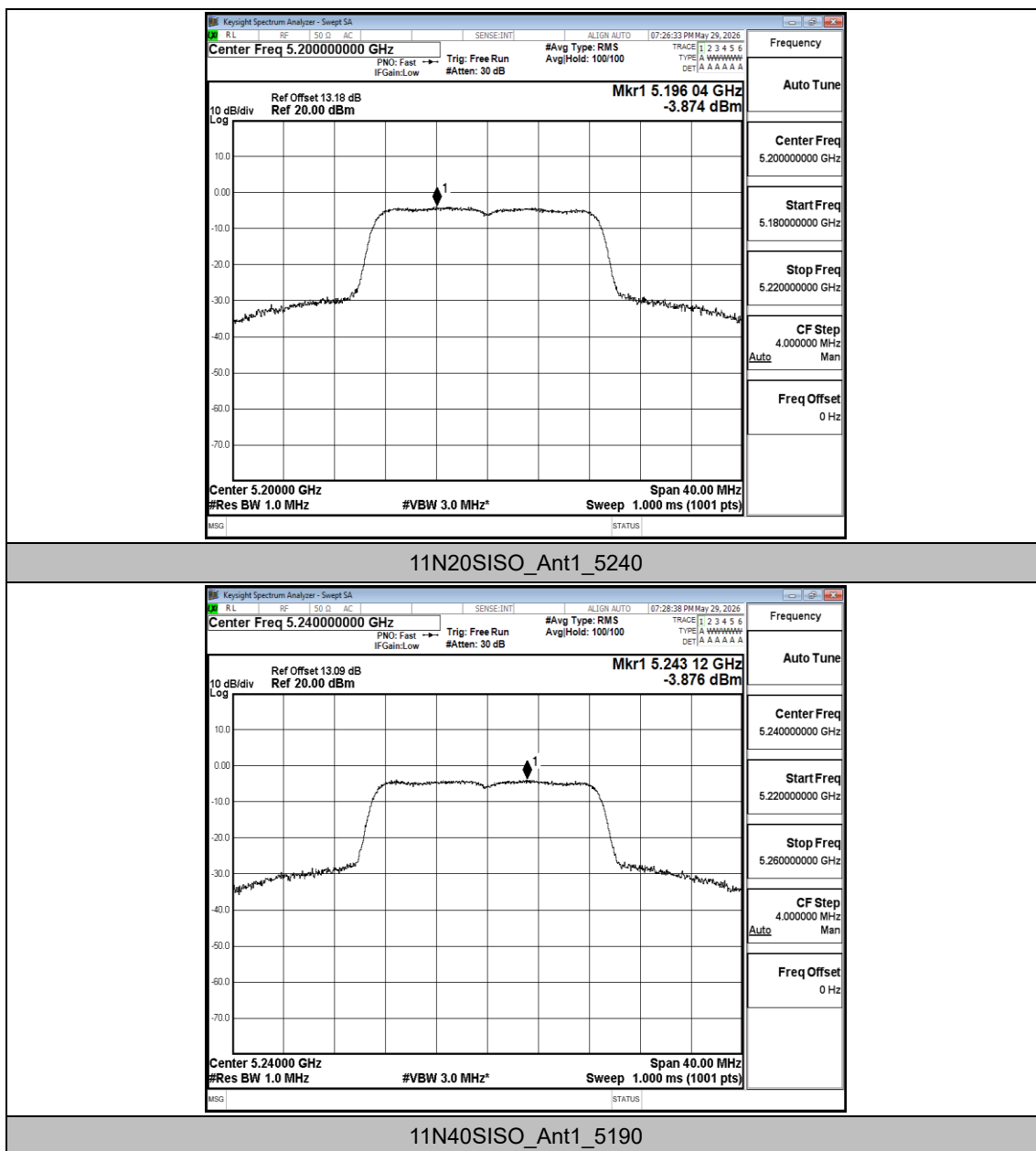
Test Result

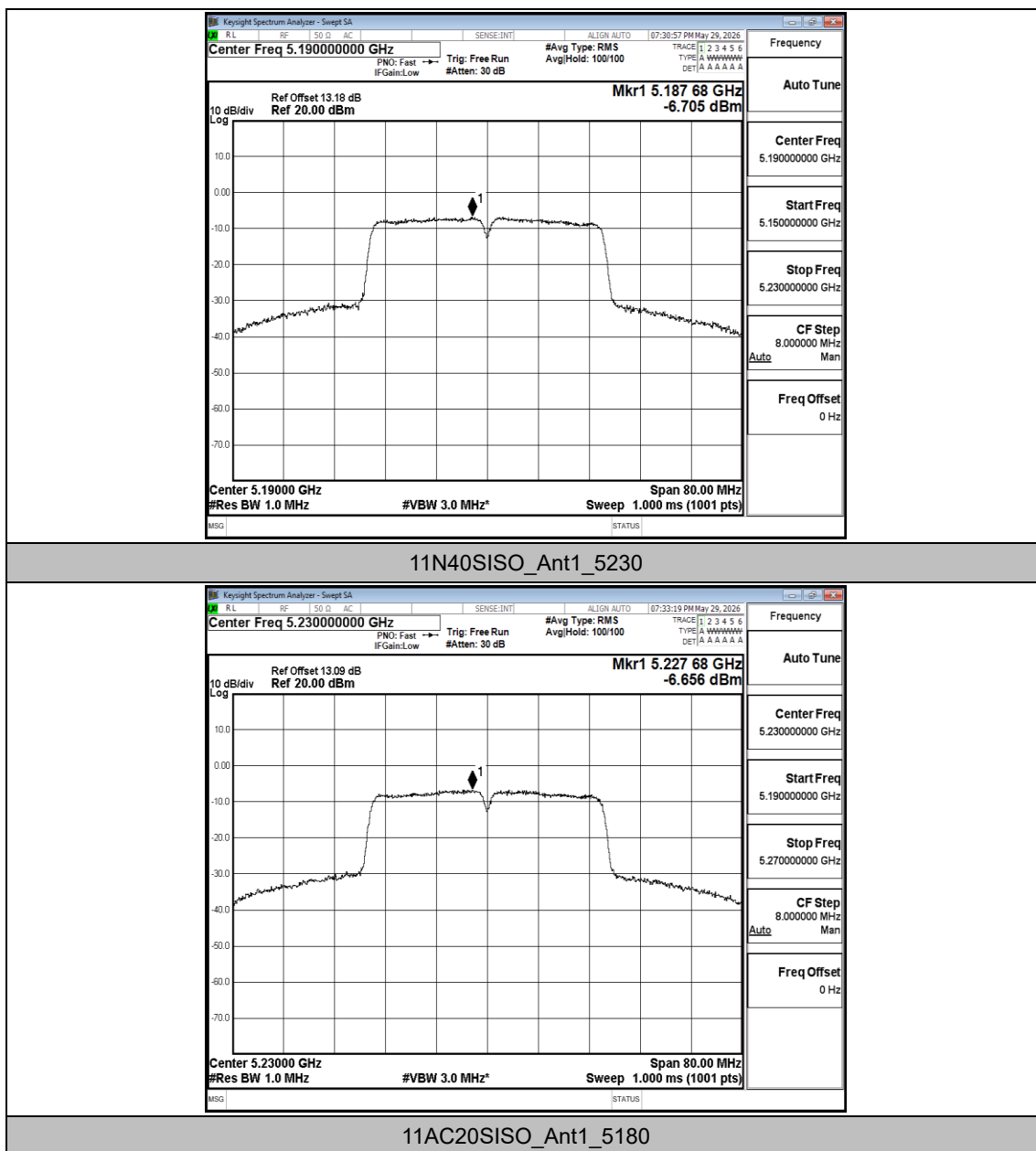
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	-3.29	0.18	-3.11	≤11.00	PASS
		5200	-4.02	0.18	-3.84	≤11.00	PASS
		5240	-3.75	0.18	-3.57	≤11.00	PASS
11N20SISO	Ant1	5180	-3.53	0.22	-3.31	≤11.00	PASS
		5200	-3.87	0.22	-3.65	≤11.00	PASS
		5240	-3.88	0.22	-3.66	≤11.00	PASS
11N40SISO	Ant1	5190	-6.71	0.42	-6.29	≤11.00	PASS
		5230	-6.66	0.43	-6.23	≤11.00	PASS
11AC20SISO	Ant1	5180	-3.46	0.21	-3.25	≤11.00	PASS
		5200	-3.98	0.21	-3.77	≤11.00	PASS
		5240	-4.04	0.21	-3.83	≤11.00	PASS
11AC40SISO	Ant1	5190	-6.74	0.42	-6.32	≤11.00	PASS
		5230	-6.81	0.42	-6.39	≤11.00	PASS
11AC80SISO	Ant1	5210	-9.56	0.79	-8.77	≤11.00	PASS

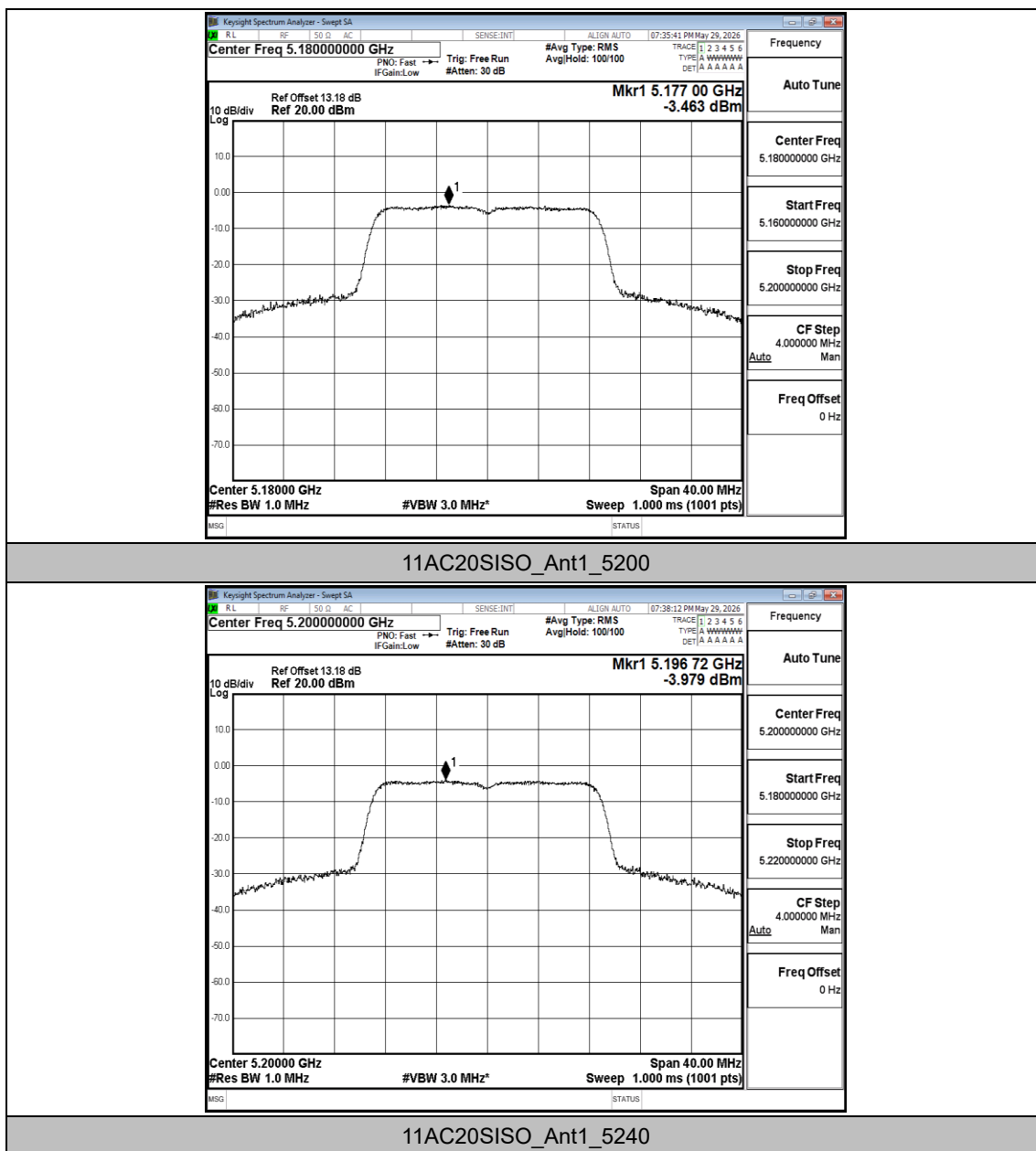
Test Graphs

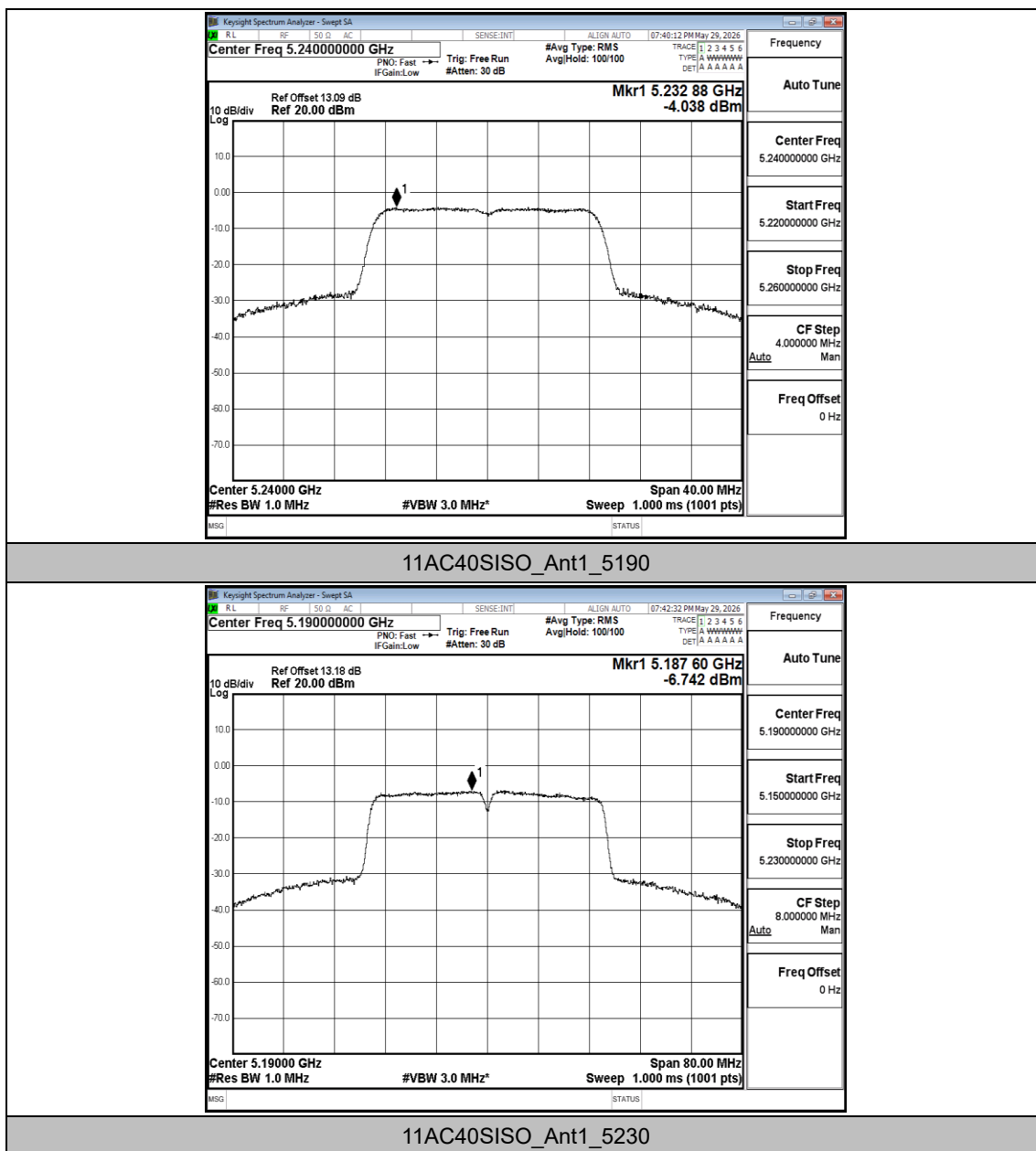


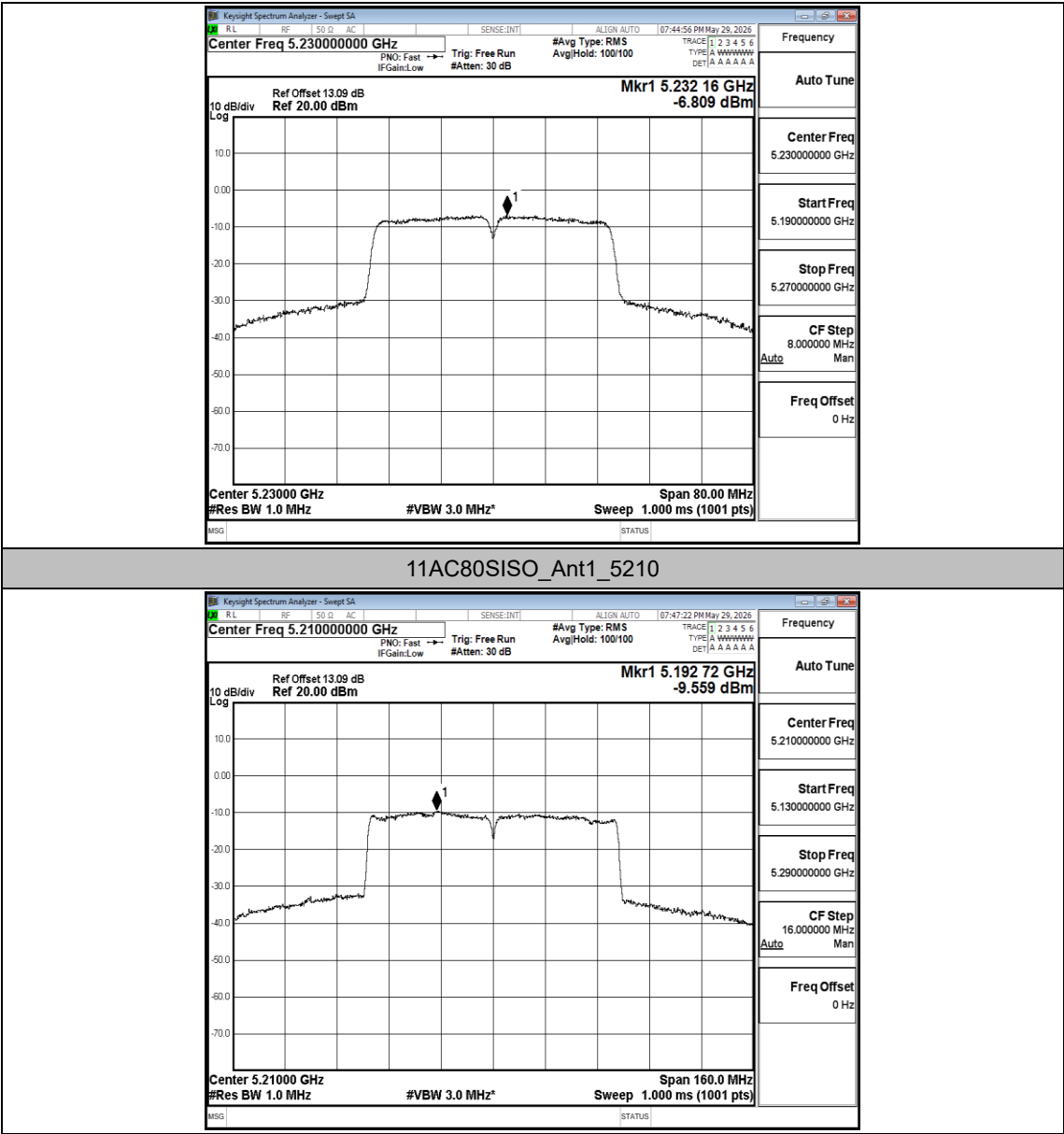












D.4 Emissions in Restricted Bands

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	-62.07	≤-43.38	2.00	0.18	35.31	≤54	PASS
				AV	5147.500	-51.07	≤-43.38	2.00	0.18	46.31	≤54	PASS
				AV	5150.000	-50.44	≤-43.38	2.00	0.18	46.94	≤54	PASS
				Peak	4500.000	-53.51	≤-29.00	2.00	0.00	43.69	≤68.2	PASS
				Peak	5145.400	-39.57	≤-29.00	2.00	0.00	57.63	≤68.2	PASS
				Peak	5150.000	-37.79	≤-29.00	2.00	0.00	59.41	≤68.2	PASS
		High	5240	AV	5350.000	-60.92	≤-43.38	2.00	0.18	36.46	≤54	PASS
				AV	5352.480	-60.49	≤-43.38	2.00	0.18	36.89	≤54	PASS
				AV	5460.000	-62.03	≤-43.38	2.00	0.18	35.35	≤54	PASS
				Peak	5350.000	-52.71	≤-29.00	2.00	0.00	44.49	≤68.2	PASS
				Peak	5379.120	-50.28	≤-29.00	2.00	0.00	46.92	≤68.2	PASS
				Peak	5460.000	-53.42	≤-29.00	2.00	0.00	43.78	≤68.2	PASS
11N20SISO	Ant1	Low	5180	AV	4500.000	-61.9	≤-43.42	2.00	0.22	35.52	≤54	PASS
				AV	5148.900	-49.13	≤-43.42	2.00	0.22	48.29	≤54	PASS
				AV	5150.000	-48.41	≤-43.42	2.00	0.22	49.01	≤54	PASS
				Peak	4500.000	-53.41	≤-29.00	2.00	0.00	43.79	≤68.2	PASS
				Peak	5149.600	-36.76	≤-29.00	2.00	0.00	60.44	≤68.2	PASS
				Peak	5150.000	-36.37	≤-29.00	2.00	0.00	60.83	≤68.2	PASS
		High	5240	AV	5350.000	-60.8	≤-43.42	2.00	0.22	36.62	≤54	PASS
				AV	5355.840	-60.69	≤-43.42	2.00	0.22	36.73	≤54	PASS
				AV	5460.000	-61.64	≤-43.42	2.00	0.22	35.78	≤54	PASS
				Peak	5350.000	-52.87	≤-29.00	2.00	0.00	44.33	≤68.2	PASS
				Peak	5426.880	-51.02	≤-29.00	2.00	0.00	46.18	≤68.2	PASS
				Peak	5460.000	-54.93	≤-29.00	2.00	0.00	42.27	≤68.2	PASS
11N40SISO	Ant1	Low	5190	AV	4500.000	-68.27	≤-43.62	2.00	0.42	29.35	≤54	PASS
				AV	4726.800	-52.74	≤-43.62	2.00	0.42	44.88	≤54	PASS
				AV	5150.000	-56.55	≤-43.62	2.00	0.42	41.07	≤54	PASS
				Peak	4500.000	-59.84	≤-29.00	2.00	0.00	37.36	≤68.2	PASS
				Peak	5149.600	-41.67	≤-29.00	2.00	0.00	55.53	≤68.2	PASS
				Peak	5150.000	-41.48	≤-29.00	2.00	0.00	55.72	≤68.2	PASS
		High	5230	AV	5350.000	-60.12	≤-43.63	2.00	0.43	37.51	≤54	PASS
				AV	5359.640	-59.93	≤-43.63	2.00	0.43	37.70	≤54	PASS
				AV	5460.000	-61.35	≤-43.63	2.00	0.43	36.28	≤54	PASS
				Peak	5350.000	-52.06	≤-29.00	2.00	0.00	45.14	≤68.2	PASS
				Peak	5355.220	-49.61	≤-29.00	2.00	0.00	47.59	≤68.2	PASS

				Peak	5460.000	-54.35	≤-29.00	2.00	0.00	42.85	≤68.2	PASS
11AC20SISO	Ant1	Low	5180	AV	4500.000	-61.97	≤-43.41	2.00	0.21	35.44	≤54	PASS
				AV	5149.600	-48.49	≤-43.41	2.00	0.21	48.92	≤54	PASS
				AV	5150.000	-48.28	≤-43.41	2.00	0.21	49.13	≤54	PASS
				Peak	4500.000	-53.93	≤-29.00	2.00	0.00	43.27	≤68.2	PASS
				Peak	5148.900	-35.85	≤-29.00	2.00	0.00	61.35	≤68.2	PASS
				Peak	5150.000	-33.12	≤-29.00	2.00	0.00	64.08	≤68.2	PASS
		High	5240	AV	5350.000	-61.24	≤-43.41	2.00	0.21	36.17	≤54	PASS
				AV	5353.200	-60.27	≤-43.41	2.00	0.21	37.14	≤54	PASS
				AV	5460.000	-61.47	≤-43.41	2.00	0.21	35.94	≤54	PASS
				Peak	5350.000	-53.62	≤-29.00	2.00	0.00	43.58	≤68.2	PASS
				Peak	5366.640	-50.74	≤-29.00	2.00	0.00	46.46	≤68.2	PASS
				Peak	5460.000	-53.5	≤-29.00	2.00	0.00	43.70	≤68.2	PASS
11AC40SISO	Ant1	Low	5190	AV	4500.000	-68.61	≤-43.62	2.00	0.42	29.01	≤54	PASS
				AV	4726.100	-53.1	≤-43.62	2.00	0.42	44.52	≤54	PASS
				AV	5150.000	-57.25	≤-43.62	2.00	0.42	40.37	≤54	PASS
				Peak	4500.000	-60.18	≤-29.00	2.00	0.00	37.02	≤68.2	PASS
				Peak	5149.600	-42.35	≤-29.00	2.00	0.00	54.85	≤68.2	PASS
				Peak	5150.000	-45.09	≤-29.00	2.00	0.00	52.11	≤68.2	PASS
		High	5230	AV	5350.000	-59.91	≤-43.62	2.00	0.42	37.71	≤54	PASS
				AV	5350.020	-59.91	≤-43.62	2.00	0.42	37.71	≤54	PASS
				AV	5460.000	-61.43	≤-43.62	2.00	0.42	36.19	≤54	PASS
				Peak	5350.000	-51.28	≤-29.00	2.00	0.00	45.92	≤68.2	PASS
				Peak	5356.260	-48.73	≤-29.00	2.00	0.00	48.47	≤68.2	PASS
				Peak	5460.000	-52.74	≤-29.00	2.00	0.00	44.46	≤68.2	PASS
11AC80SISO	Ant1	Low	5210	AV	4500.000	-68.38	≤-43.99	2.00	0.79	29.61	≤54	PASS
				AV	5145.750	-57	≤-43.99	2.00	0.79	40.99	≤54	PASS
				AV	5150.000	-57.05	≤-43.99	2.00	0.79	40.94	≤54	PASS
				Peak	4500.000	-60.68	≤-29.00	2.00	0.00	36.52	≤68.2	PASS
				Peak	5148.750	-46.09	≤-29.00	2.00	0.00	51.11	≤68.2	PASS
				Peak	5150.000	-48.24	≤-29.00	2.00	0.00	48.96	≤68.2	PASS
		High	5210	AV	5350.000	-54.21	≤-43.99	2.00	0.79	43.78	≤54	PASS
				AV	5352.760	-54.21	≤-43.99	2.00	0.79	43.78	≤54	PASS
				AV	5460.000	-60.4	≤-43.99	2.00	0.79	37.59	≤54	PASS
				Peak	5350.000	-42.74	≤-29.00	2.00	0.00	54.46	≤68.2	PASS
				Peak	5383.000	-41.3	≤-29.00	2.00	0.00	55.90	≤68.2	PASS
				Peak	5460.000	-50.91	≤-29.00	2.00	0.00	46.29	≤68.2	PASS

Note:

1. The Antenna Gain is compensated in the graph.

Test Graphs

