

Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Smart Phone

Test Model: Air 1

Environmental Conditions

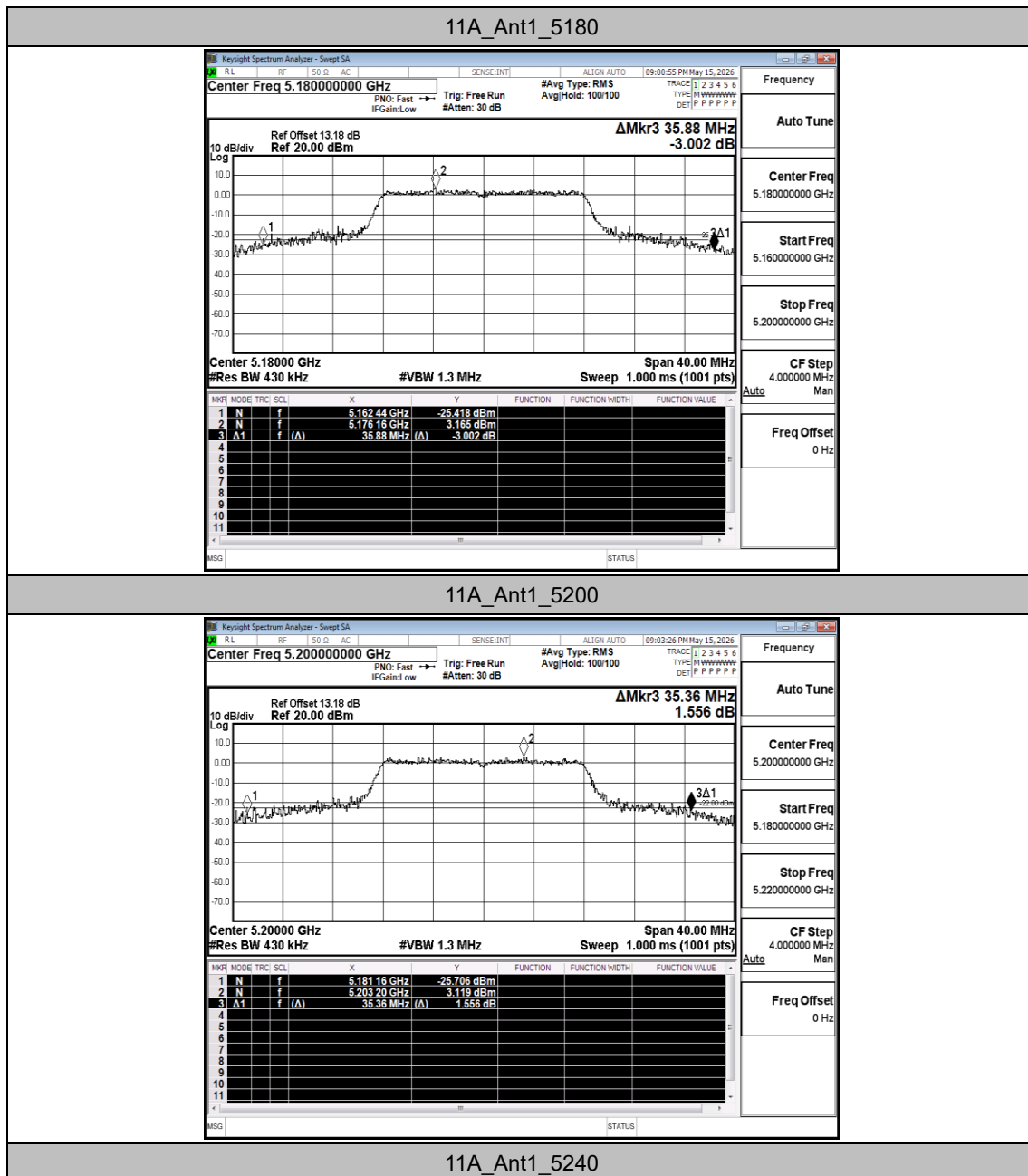
Temperature:	24.6°C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

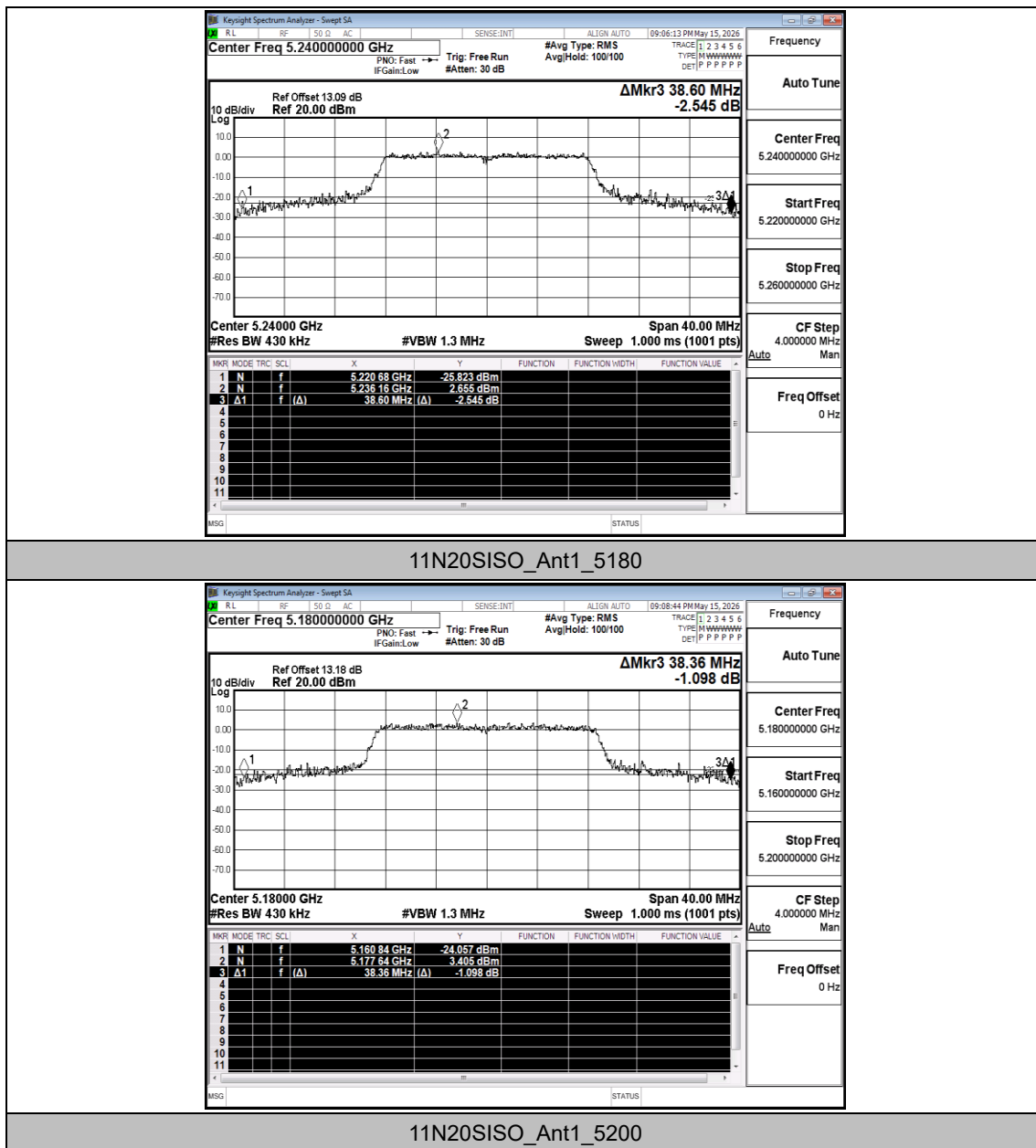
D.1 26dB Bandwidth

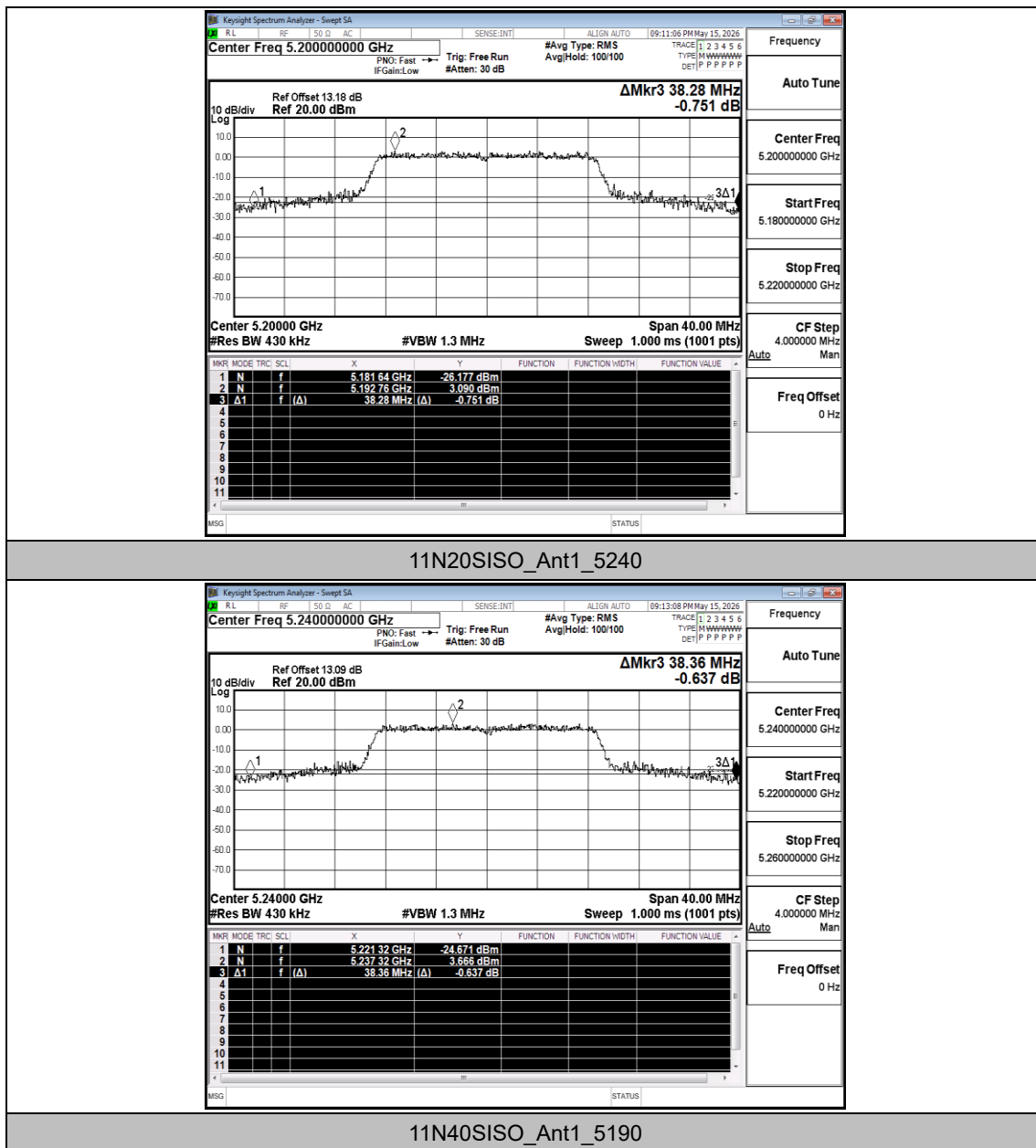
Test Result

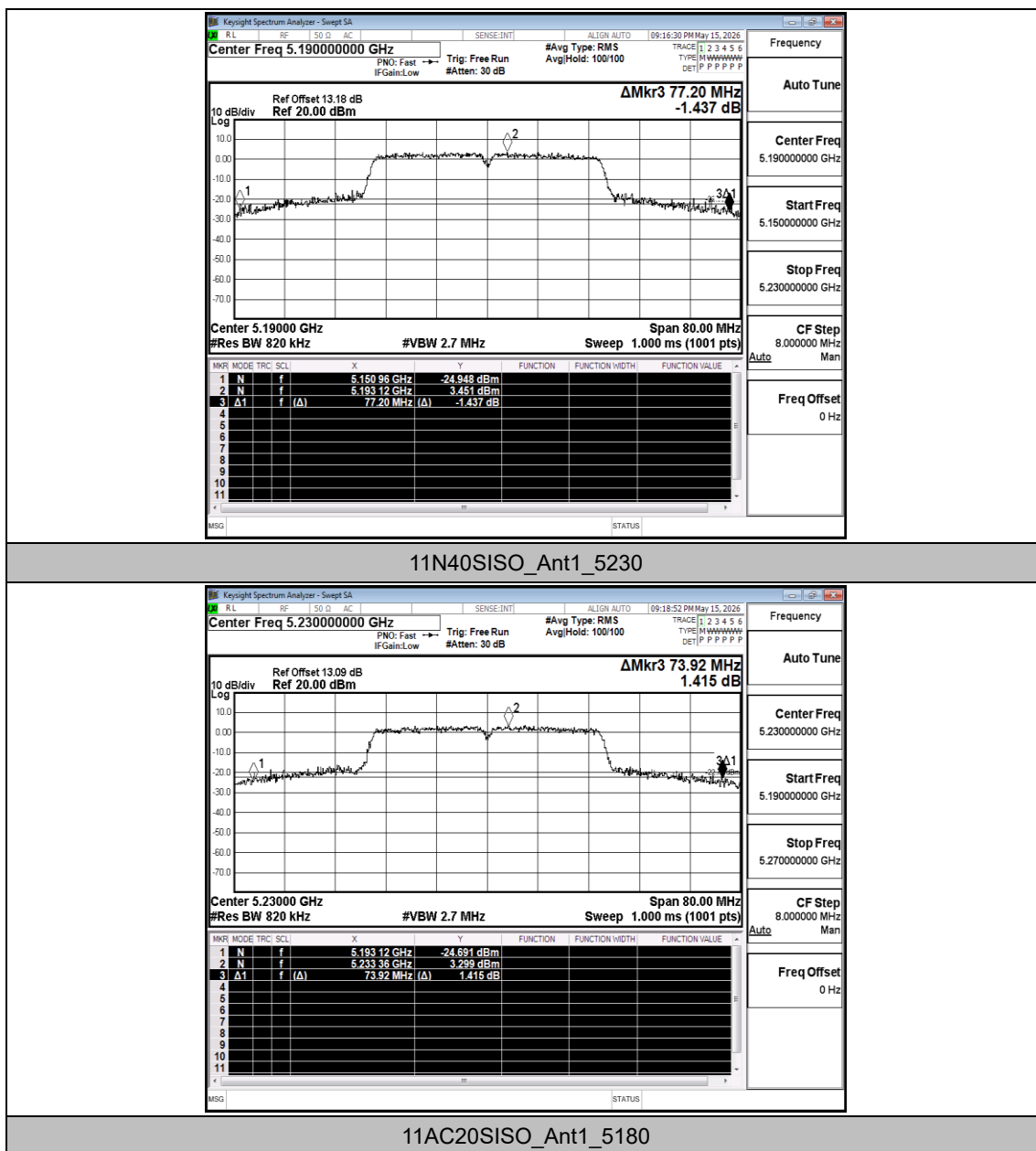
TestMode	Antenna	Freq (MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	35.880	5162.440	5198.320	---	---
		5200	35.360	5181.160	5216.520	---	---
		5240	38.600	5220.680	5259.280	---	---
11N20SISO	Ant1	5180	38.360	5160.840	5199.200	---	---
		5200	38.280	5181.640	5219.920	---	---
		5240	38.360	5221.320	5259.680	---	---
11N40SISO	Ant1	5190	77.200	5150.960	5228.160	---	---
		5230	73.920	5193.120	5267.040	---	---
11AC20SISO	Ant1	5180	39.720	5160.240	5199.960	---	---
		5200	37.600	5181.480	5219.080	---	---
		5240	37.960	5221.360	5259.320	---	---
11AC40SISO	Ant1	5190	78.240	5150.640	5228.880	---	---
		5230	76.720	5190.160	5266.880	---	---
11AC80SISO	Ant1	5210	154.080	5132.880	5286.960	---	---

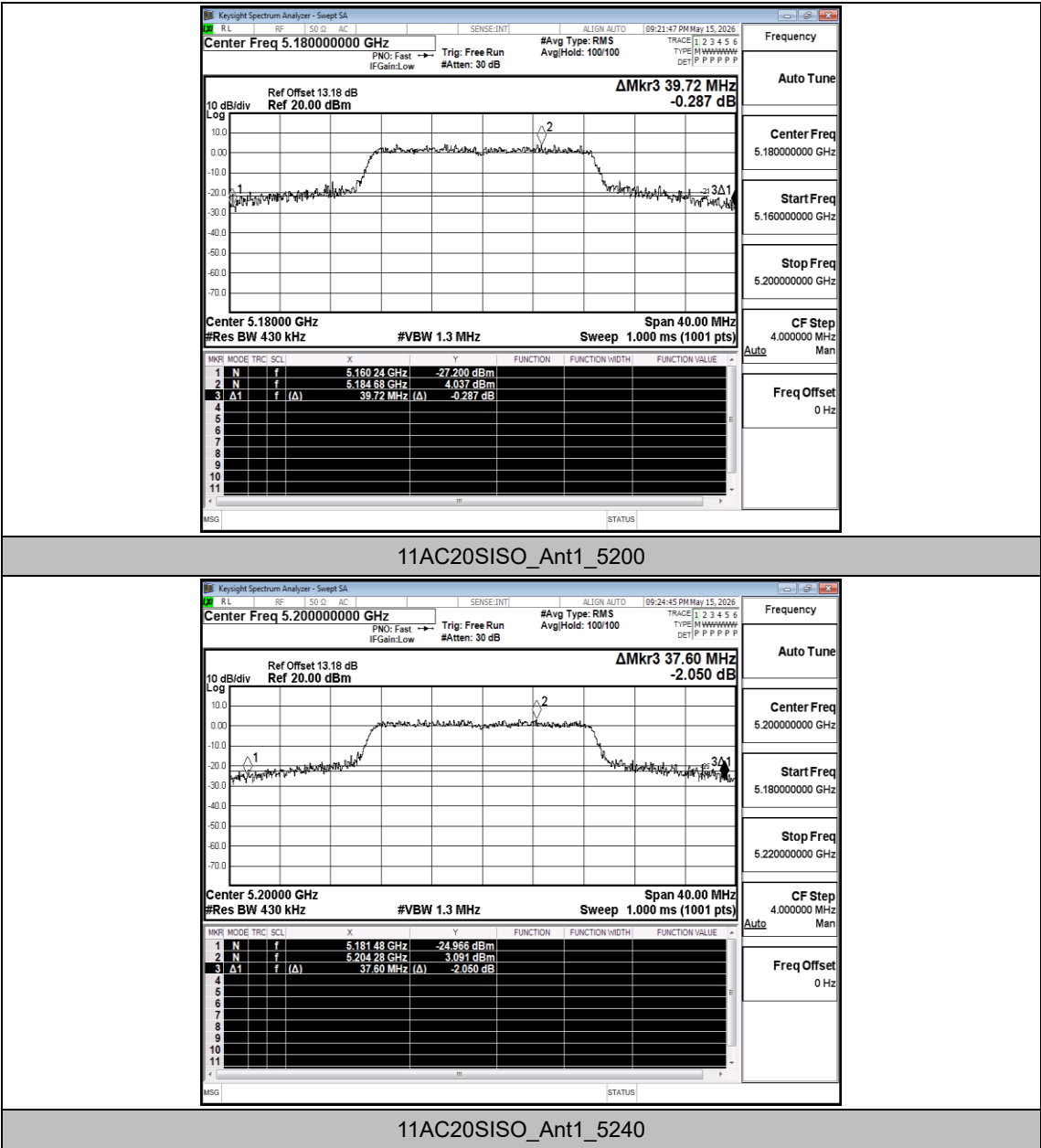
Test Graphs

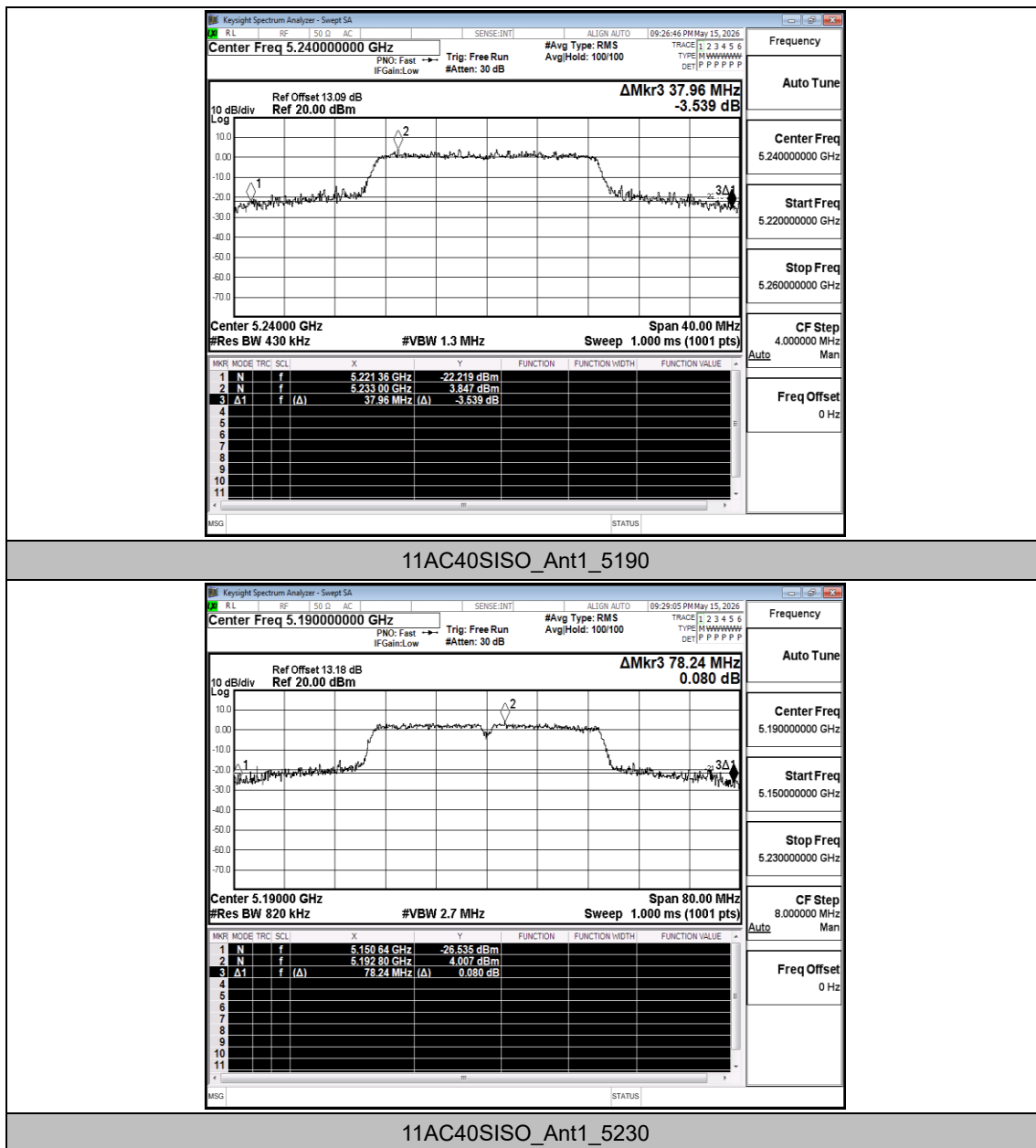


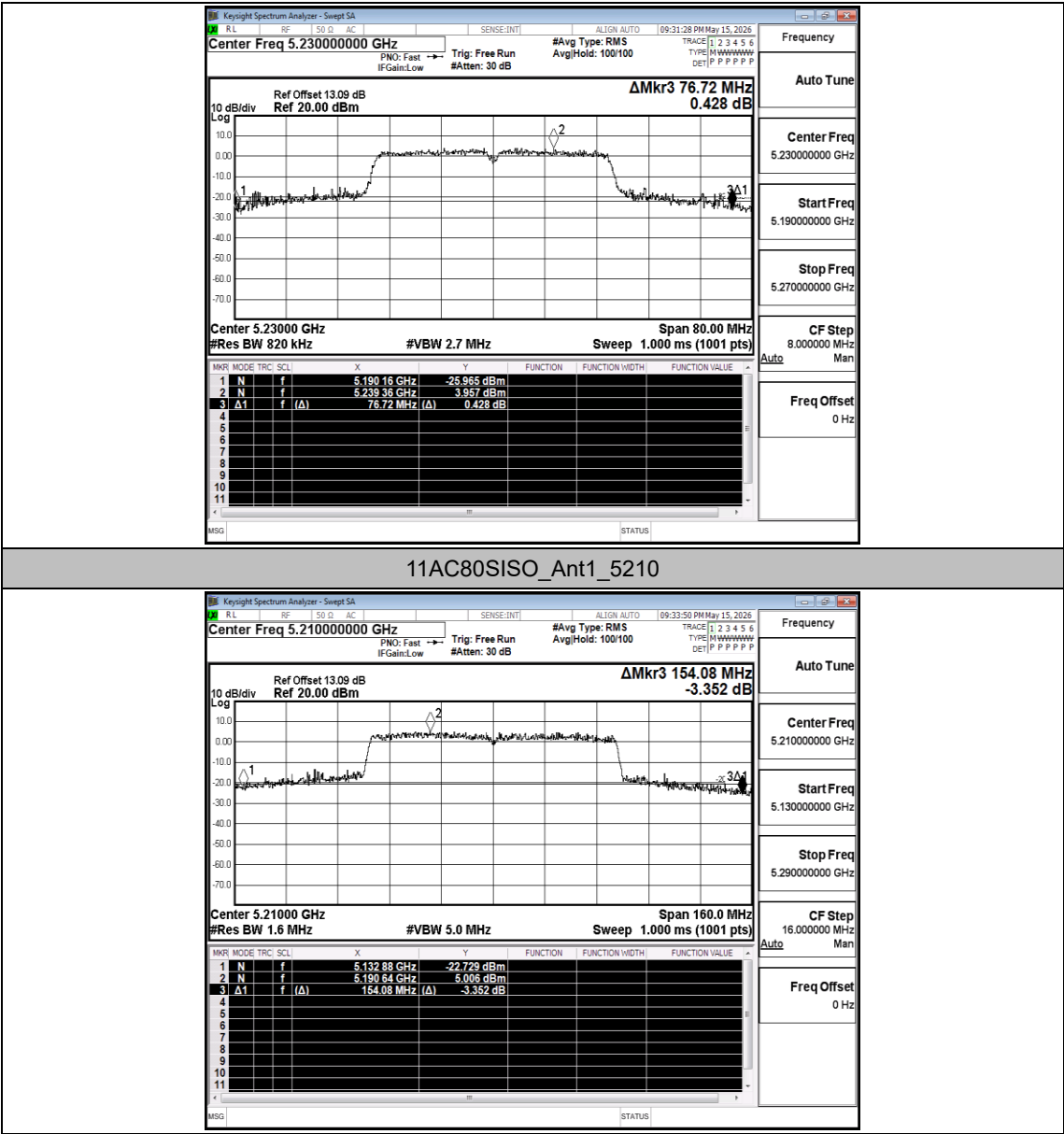












D.2 Maximum conducted output power

Test Result

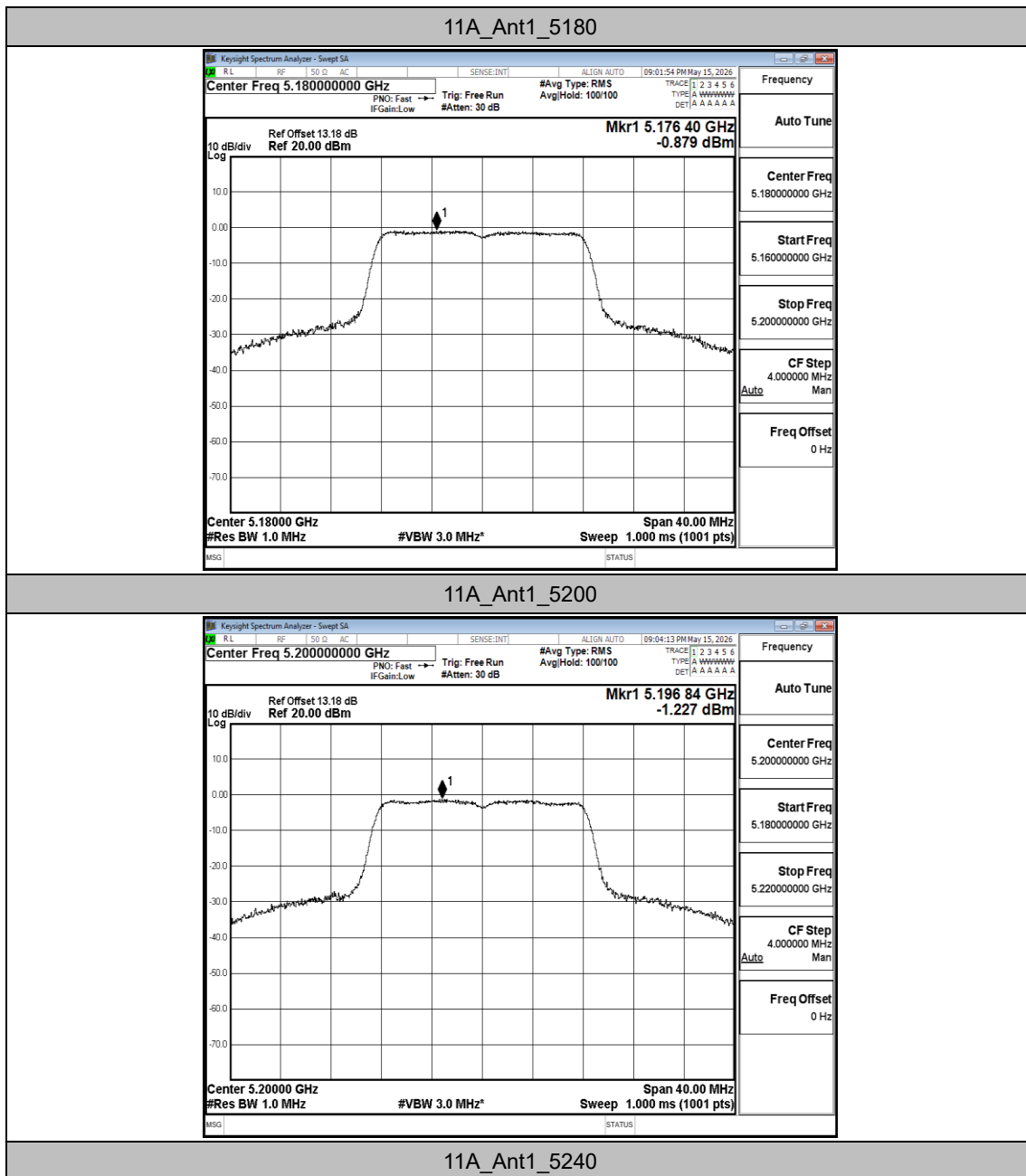
Test Mode	Antenna	Freq (MHz)	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	11.85	0.21	12.06	≤23.98	PASS
		5200	11.29	0.21	11.50	≤23.98	PASS
		5240	10.91	0.18	11.09	≤23.98	PASS
11N20SISO	Ant1	5180	12.04	0.22	12.26	≤23.98	PASS
		5200	11.53	0.22	11.75	≤23.98	PASS
		5240	11.07	0.22	11.29	≤23.98	PASS
11N40SISO	Ant1	5190	11.41	0.42	11.83	≤23.98	PASS
		5230	11.10	0.49	11.59	≤23.98	PASS
11AC20SISO	Ant1	5180	11.93	0.21	12.14	≤23.98	PASS
		5200	11.54	0.21	11.75	≤23.98	PASS
		5240	11.10	0.25	11.35	≤23.98	PASS
11AC40SISO	Ant1	5190	11.45	0.42	11.87	≤23.98	PASS
		5230	11.02	0.42	11.44	≤23.98	PASS
11AC80SISO	Ant1	5210	11.13	0.79	11.92	≤23.98	PASS

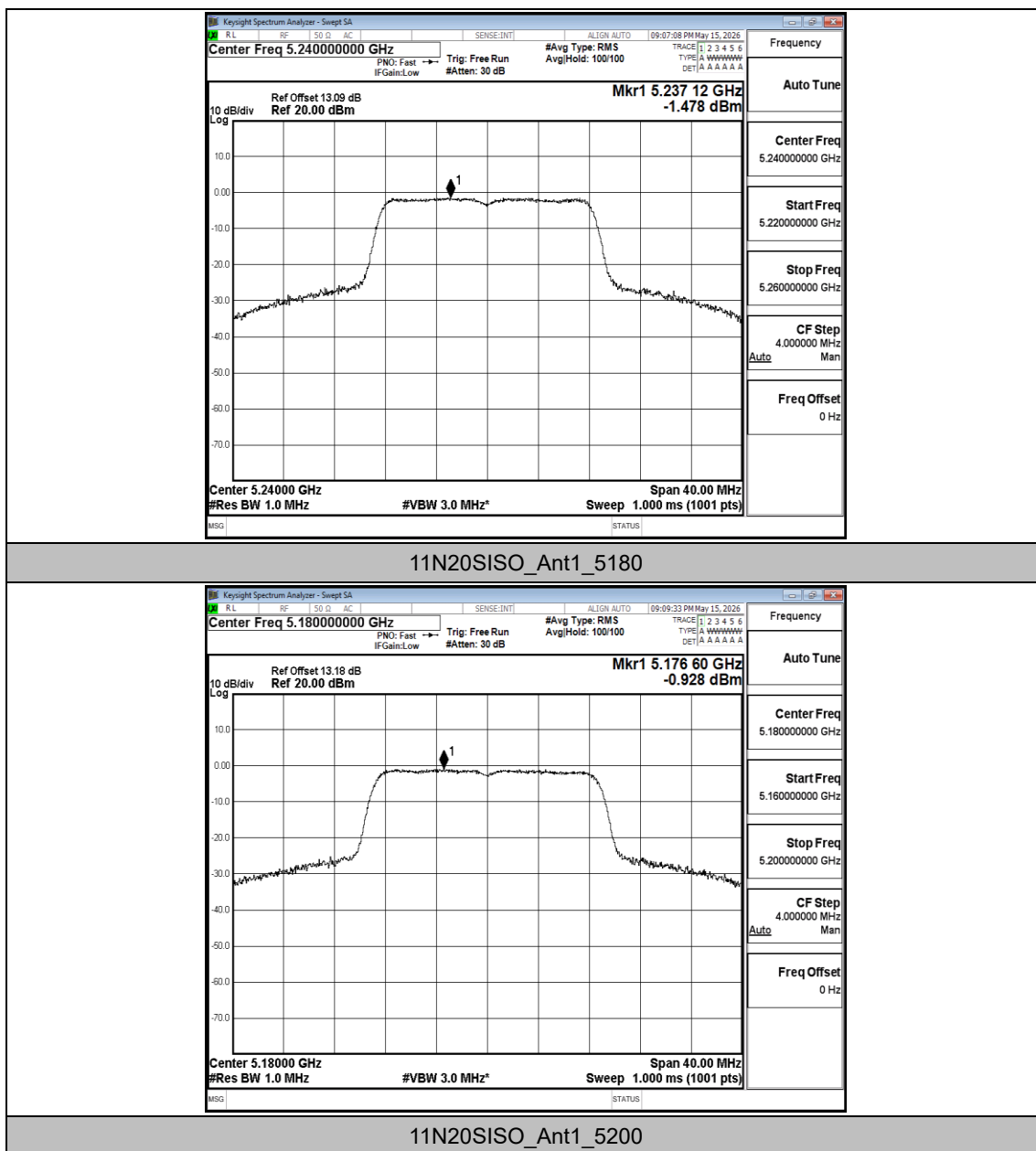
D.3 Maximum power spectral density

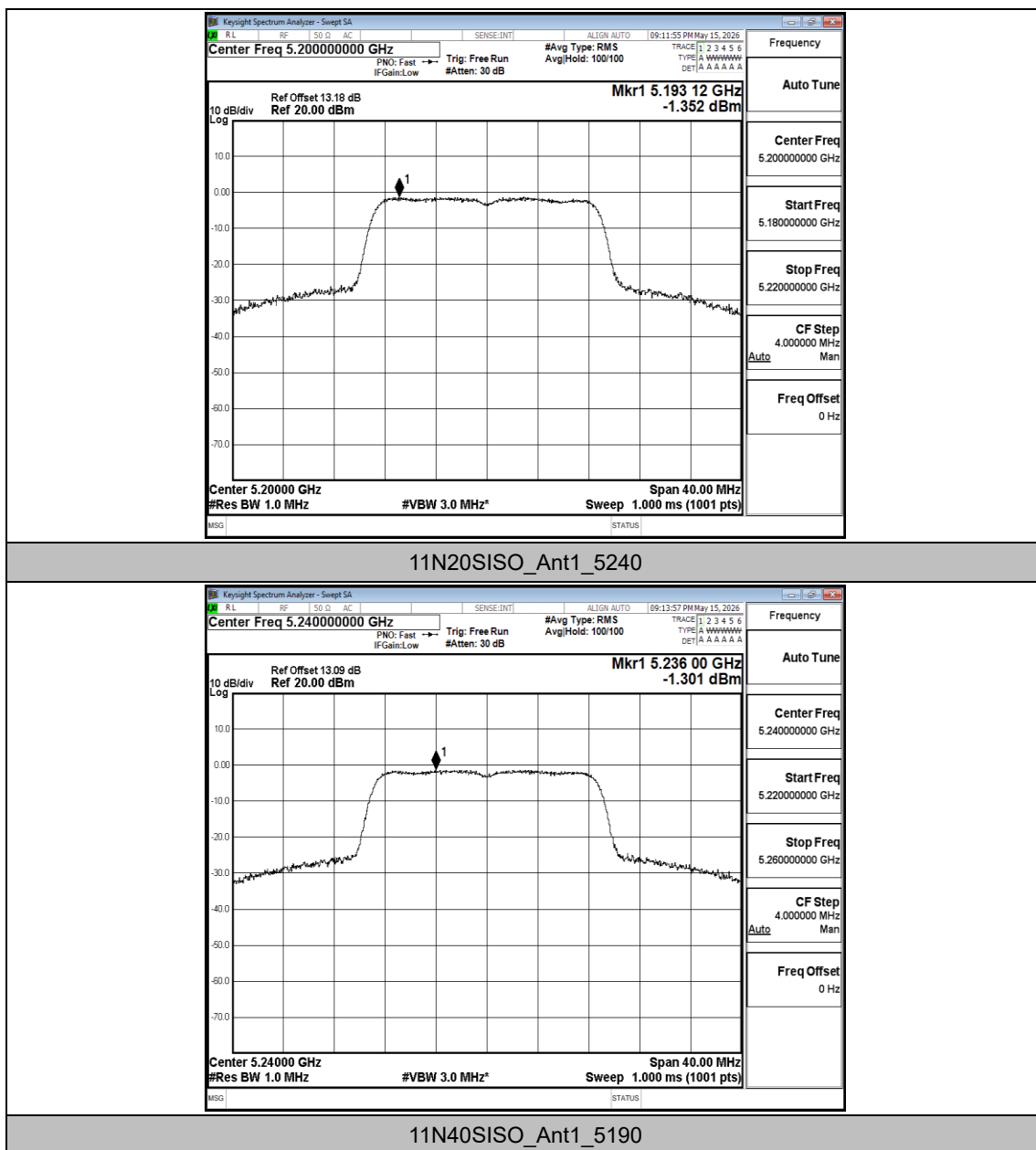
Test Result

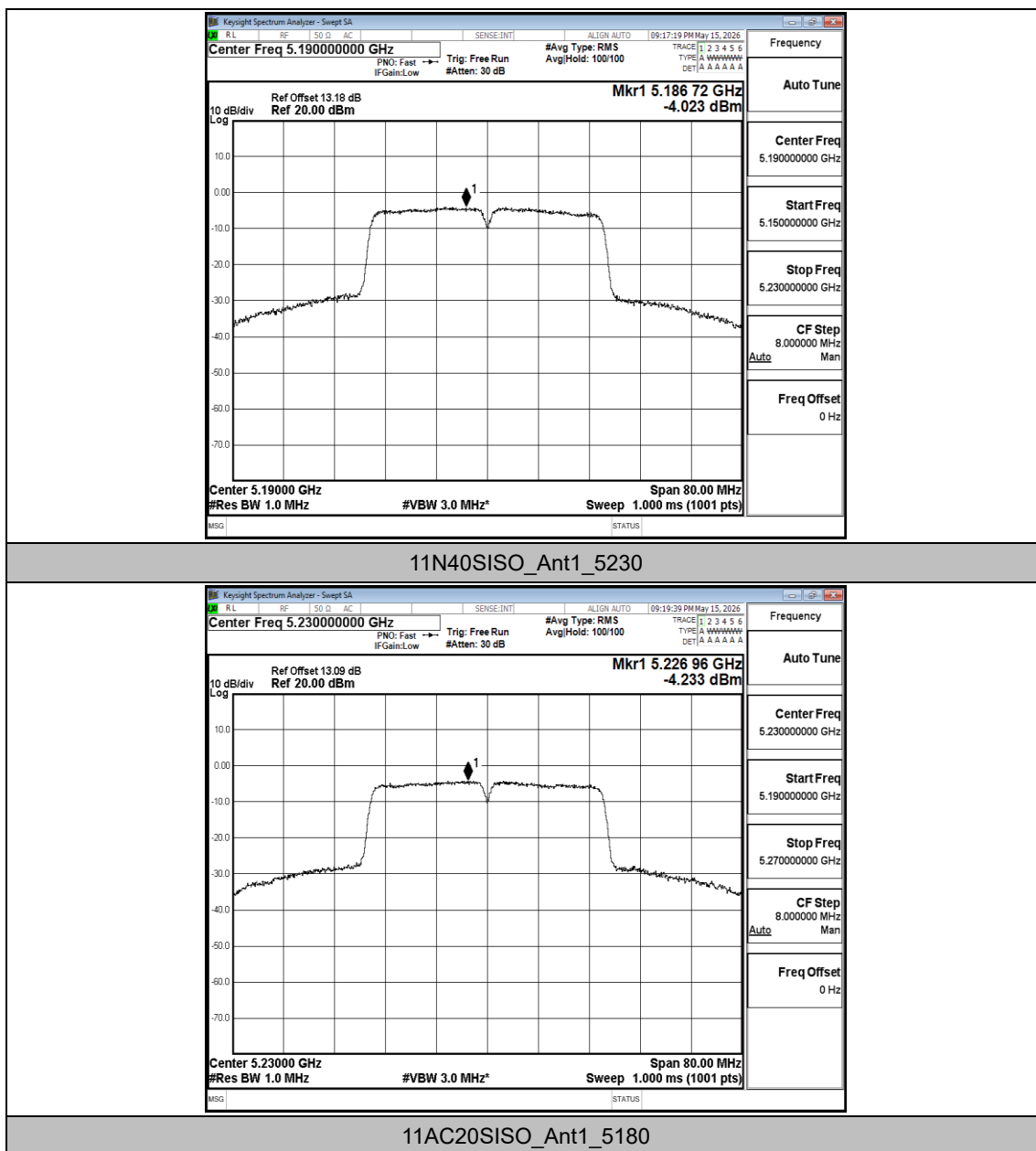
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	-0.88	0.21	-0.67	≤11.00	PASS
		5200	-1.23	0.21	-1.02	≤11.00	PASS
		5240	-1.48	0.18	-1.30	≤11.00	PASS
11N20SISO	Ant1	5180	-0.93	0.22	-0.71	≤11.00	PASS
		5200	-1.35	0.22	-1.13	≤11.00	PASS
		5240	-1.3	0.22	-1.08	≤11.00	PASS
11N40SISO	Ant1	5190	-4.02	0.42	-3.60	≤11.00	PASS
		5230	-4.23	0.49	-3.74	≤11.00	PASS
11AC20SISO	Ant1	5180	-0.73	0.21	-0.52	≤11.00	PASS
		5200	-1.25	0.21	-1.04	≤11.00	PASS
		5240	-1.21	0.25	-0.96	≤11.00	PASS
11AC40SISO	Ant1	5190	-3.95	0.42	-3.53	≤11.00	PASS
		5230	-4.17	0.42	-3.75	≤11.00	PASS
11AC80SISO	Ant1	5210	-6.67	0.79	-5.88	≤11.00	PASS

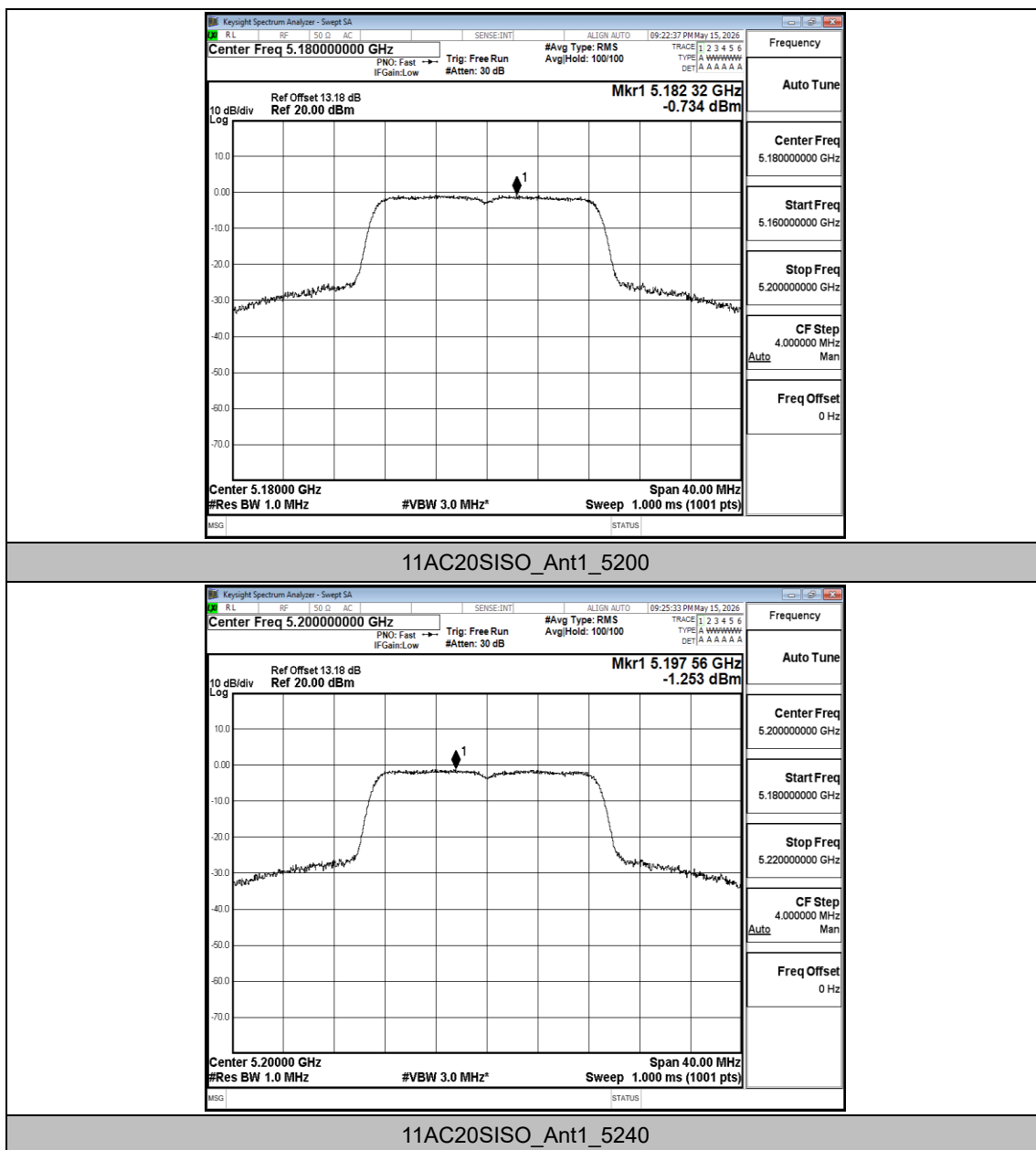
Test Graphs

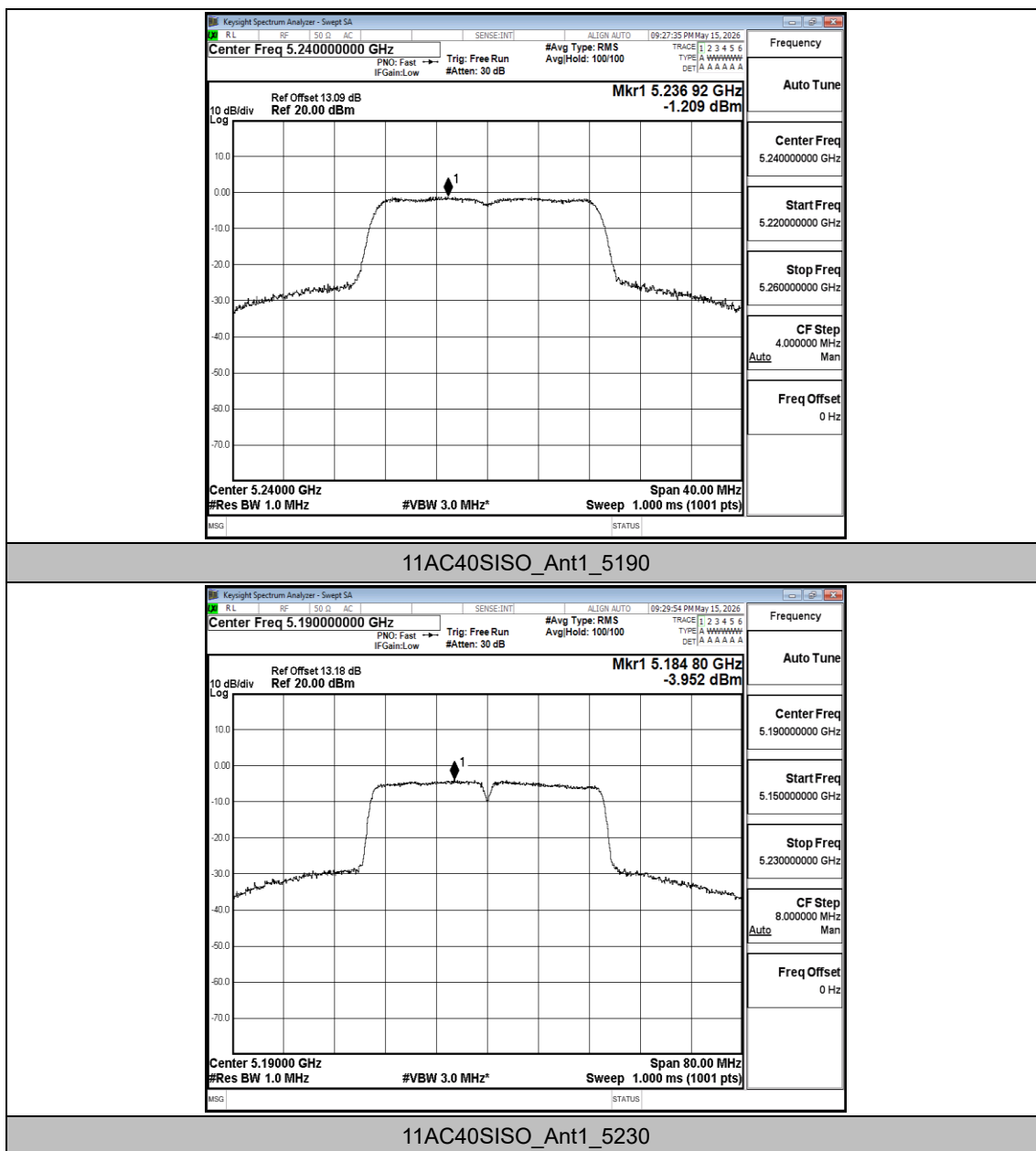


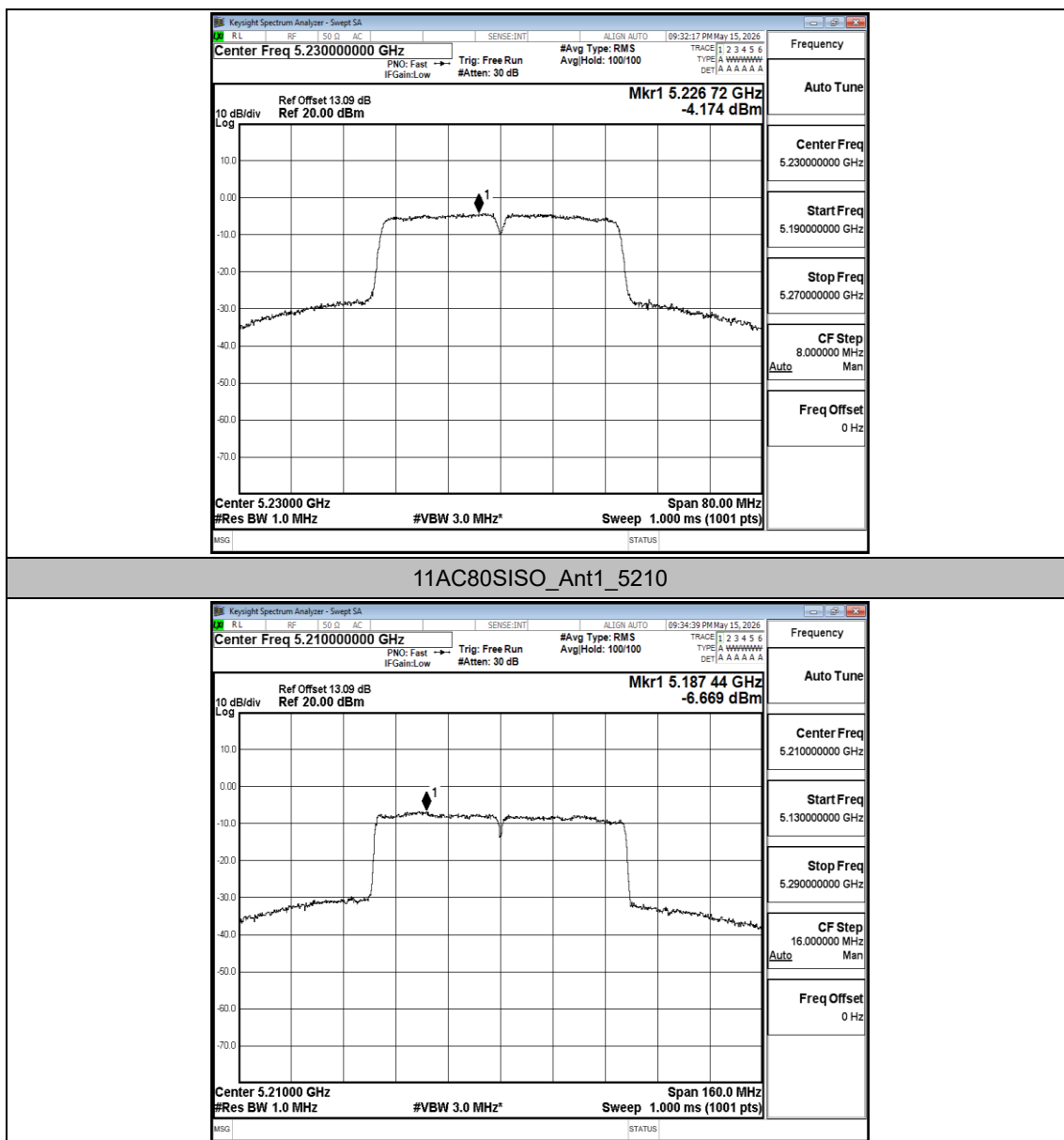












D.4 Emissions in Restricted Bands

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	-61.63	≤-43.41	2.00	0.21	35.78	≤54	PASS
				AV	5148.900	-49.08	≤-43.41	2.00	0.21	48.33	≤54	PASS
				AV	5150.000	-50.44	≤-43.41	2.00	0.21	46.97	≤54	PASS
				Peak	4500.000	-53.37	≤-29.00	2.00	0.00	43.83	≤68.2	PASS
				Peak	5148.200	-34.48	≤-29.00	2.00	0.00	62.72	≤68.2	PASS
				Peak	5150.000	-38.26	≤-29.00	2.00	0.00	58.94	≤68.2	PASS
		High	5240	AV	5350.000	-61.2	≤-43.38	2.00	0.18	36.18	≤54	PASS
				AV	5366.880	-60.33	≤-43.38	2.00	0.18	37.05	≤54	PASS
				AV	5460.000	-61.82	≤-43.38	2.00	0.18	35.56	≤54	PASS
				Peak	5350.000	-52.57	≤-29.00	2.00	0.00	44.63	≤68.2	PASS
				Peak	5432.160	-49.92	≤-29.00	2.00	0.00	47.28	≤68.2	PASS
				Peak	5460.000	-53.49	≤-29.00	2.00	0.00	43.71	≤68.2	PASS
11N20SISO	Ant1	Low	5180	AV	4500.000	-61.88	≤-43.42	2.00	0.22	35.54	≤54	PASS
				AV	5148.200	-47.68	≤-43.42	2.00	0.22	49.74	≤54	PASS
				AV	5150.000	-47.15	≤-43.42	2.00	0.22	50.27	≤54	PASS
				Peak	4500.000	-52.12	≤-29.00	2.00	0.00	45.08	≤68.2	PASS
				Peak	5147.500	-31.86	≤-29.00	2.00	0.00	65.34	≤68.2	PASS
				Peak	5150.000	-35.82	≤-29.00	2.00	0.00	61.38	≤68.2	PASS
		High	5240	AV	5350.000	-61.46	≤-43.42	2.00	0.22	35.96	≤54	PASS
				AV	5351.520	-60.64	≤-43.42	2.00	0.22	36.78	≤54	PASS
				AV	5460.000	-61.51	≤-43.42	2.00	0.22	35.91	≤54	PASS
				Peak	5350.000	-53	≤-29.00	2.00	0.00	44.20	≤68.2	PASS
				Peak	5355.600	-49.43	≤-29.00	2.00	0.00	47.77	≤68.2	PASS
				Peak	5460.000	-54.64	≤-29.00	2.00	0.00	42.56	≤68.2	PASS
11N40SISO	Ant1	Low	5190	AV	4500.000	-68.52	≤-43.62	2.00	0.42	29.10	≤54	PASS
				AV	4726.800	-54.36	≤-43.62	2.00	0.42	43.26	≤54	PASS
				AV	5150.000	-55.28	≤-43.62	2.00	0.42	42.34	≤54	PASS
				Peak	4500.000	-59.34	≤-29.00	2.00	0.00	37.86	≤68.2	PASS
				Peak	5148.200	-39.74	≤-29.00	2.00	0.00	57.46	≤68.2	PASS
				Peak	5150.000	-42.91	≤-29.00	2.00	0.00	54.29	≤68.2	PASS
		High	5230	AV	5350.000	-60.61	≤-43.69	2.00	0.49	37.08	≤54	PASS
				AV	5354.180	-59.49	≤-43.69	2.00	0.49	38.20	≤54	PASS
				AV	5460.000	-61.59	≤-43.69	2.00	0.49	36.10	≤54	PASS
				Peak	5350.000	-51.61	≤-29.00	2.00	0.00	45.59	≤68.2	PASS
				Peak	5367.700	-48.32	≤-29.00	2.00	0.00	48.88	≤68.2	PASS

				Peak	5460.000	-52.04	≤-29.00	2.00	0.00	45.16	≤68.2	PASS
11AC20SISO	Ant1	Low	5180	AV	4500.000	-61.74	≤-43.41	2.00	0.21	35.67	≤54	PASS
				AV	5148.200	-47.57	≤-43.41	2.00	0.21	49.84	≤54	PASS
				AV	5150.000	-46.62	≤-43.41	2.00	0.21	50.79	≤54	PASS
				Peak	4500.000	-53.88	≤-29.00	2.00	0.00	43.32	≤68.2	PASS
				Peak	5141.900	-34.27	≤-29.00	2.00	0.00	62.93	≤68.2	PASS
				Peak	5150.000	-32.99	≤-29.00	2.00	0.00	64.21	≤68.2	PASS
		High	5240	AV	5350.000	-61.34	≤-43.45	2.00	0.25	36.11	≤54	PASS
				AV	5396.400	-60.71	≤-43.45	2.00	0.25	36.74	≤54	PASS
				AV	5460.000	-61.43	≤-43.45	2.00	0.25	36.02	≤54	PASS
				Peak	5350.000	-53.63	≤-29.00	2.00	0.00	43.57	≤68.2	PASS
				Peak	5371.200	-49.86	≤-29.00	2.00	0.00	47.34	≤68.2	PASS
				Peak	5460.000	-52.95	≤-29.00	2.00	0.00	44.25	≤68.2	PASS
11AC40SISO	Ant1	Low	5190	AV	4500.000	-67.92	≤-43.62	2.00	0.42	29.70	≤54	PASS
				AV	4726.800	-54.28	≤-43.62	2.00	0.42	43.34	≤54	PASS
				AV	5150.000	-55.35	≤-43.62	2.00	0.42	42.27	≤54	PASS
				Peak	4500.000	-59.45	≤-29.00	2.00	0.00	37.75	≤68.2	PASS
				Peak	5149.600	-43.38	≤-29.00	2.00	0.00	53.82	≤68.2	PASS
				Peak	5150.000	-41.69	≤-29.00	2.00	0.00	55.51	≤68.2	PASS
		High	5230	AV	5350.000	-60.13	≤-43.62	2.00	0.42	37.49	≤54	PASS
				AV	5350.800	-59.73	≤-43.62	2.00	0.42	37.89	≤54	PASS
				AV	5460.000	-61.65	≤-43.62	2.00	0.42	35.97	≤54	PASS
				Peak	5350.000	-50.56	≤-29.00	2.00	0.00	46.64	≤68.2	PASS
				Peak	5355.480	-49.09	≤-29.00	2.00	0.00	48.11	≤68.2	PASS
				Peak	5460.000	-54.82	≤-29.00	2.00	0.00	42.38	≤68.2	PASS
11AC80SISO	Ant1	Low	5210	AV	4500.000	-67.73	≤-43.99	2.00	0.79	30.26	≤54	PASS
				AV	5142.750	-54.72	≤-43.99	2.00	0.79	43.27	≤54	PASS
				AV	5150.000	-55.5	≤-43.99	2.00	0.79	42.49	≤54	PASS
				Peak	4500.000	-59.67	≤-29.00	2.00	0.00	37.53	≤68.2	PASS
				Peak	5141.250	-44.41	≤-29.00	2.00	0.00	52.79	≤68.2	PASS
				Peak	5150.000	-46.53	≤-29.00	2.00	0.00	50.67	≤68.2	PASS
		High	5210	AV	5350.000	-53.32	≤-43.99	2.00	0.79	44.67	≤54	PASS
				AV	5355.840	-53.03	≤-43.99	2.00	0.79	44.96	≤54	PASS
				AV	5460.000	-60.63	≤-43.99	2.00	0.79	37.36	≤54	PASS
				Peak	5350.000	-42.73	≤-29.00	2.00	0.00	54.47	≤68.2	PASS
				Peak	5352.480	-39.31	≤-29.00	2.00	0.00	57.89	≤68.2	PASS
				Peak	5460.000	-49.59	≤-29.00	2.00	0.00	47.61	≤68.2	PASS

Note:

1. The Antenna Gain is compensated in the graph.

Test Graphs

