

Appendix B

RF Test Data for 5.2GWIFI(Conducted Measurement)

Product Name: Network Player

Test Model: 9000NQ

Environmental Conditions

Temperature:	24.2° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

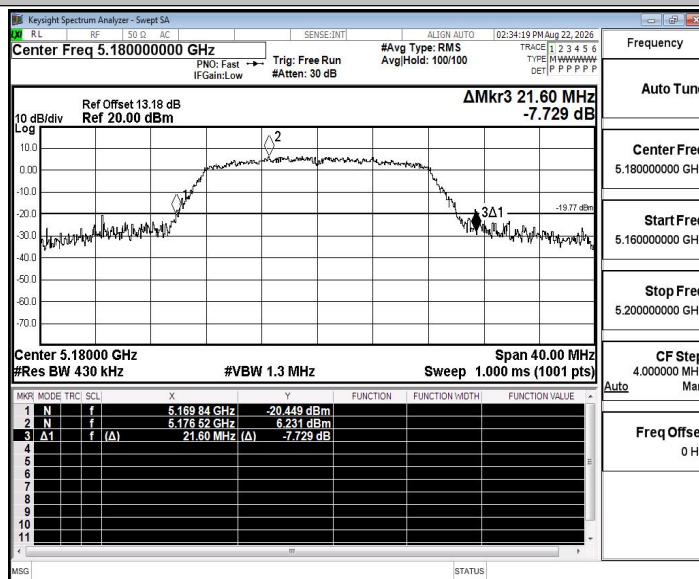
B.1 26dB Emission Bandwidth

Test Result

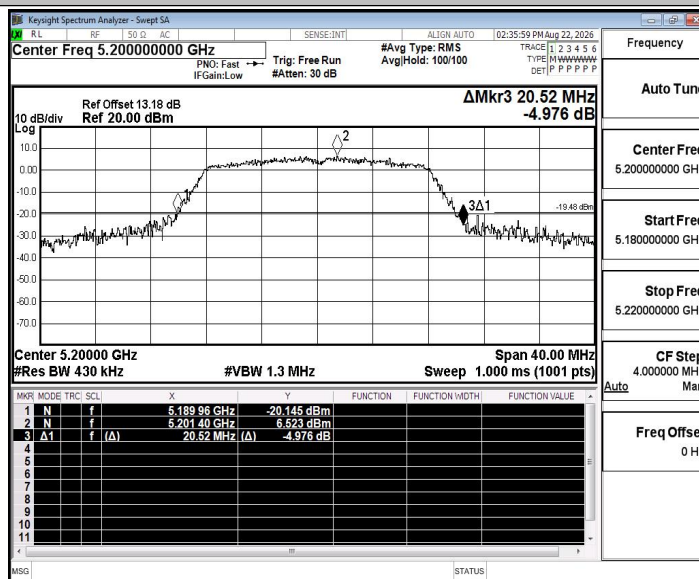
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.600	5169.840	5191.440	---	---
		5200	20.520	5189.960	5210.480	---	---
		5240	23.320	5226.960	5250.280	---	---
11N20SISO	Ant1	5180	24.200	5167.000	5191.200	---	---
		5200	26.960	5186.240	5213.200	---	---
		5240	24.360	5227.080	5251.440	---	---
11N40SISO	Ant1	5190	41.280	5169.440	5210.720	---	---
		5230	45.360	5209.200	5254.560	---	---
11AC20SISO	Ant1	5180	20.440	5169.680	5190.120	---	---
		5200	20.640	5189.640	5210.280	---	---
		5240	20.560	5229.720	5250.280	---	---
11AC40SISO	Ant1	5190	41.280	5169.600	5210.880	---	---
		5230	43.040	5207.440	5250.480	---	---
11AC80SISO	Ant1	5210	81.440	5169.040	5250.480	---	---

Test Graphs

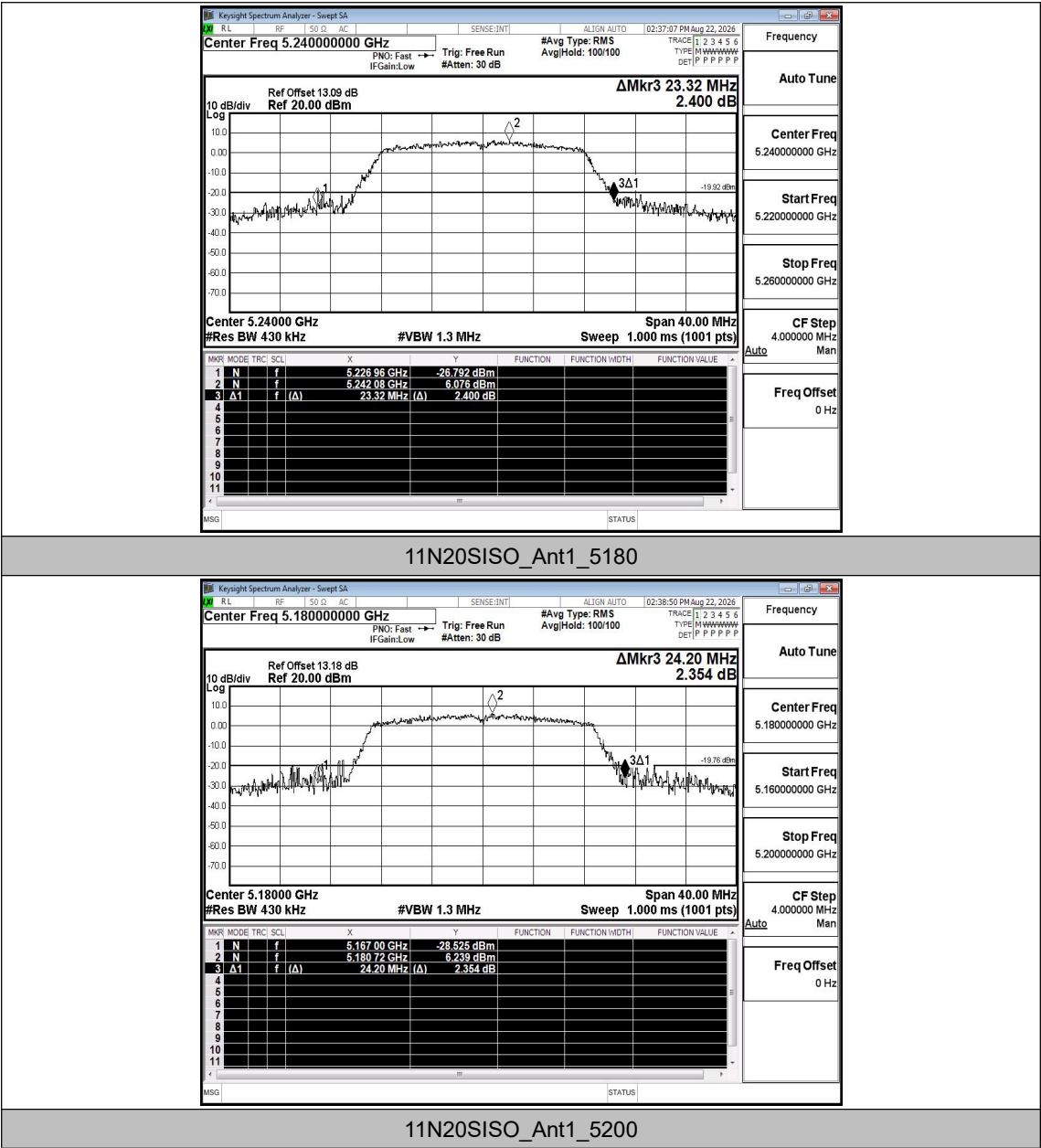
11A_Ant1_5180

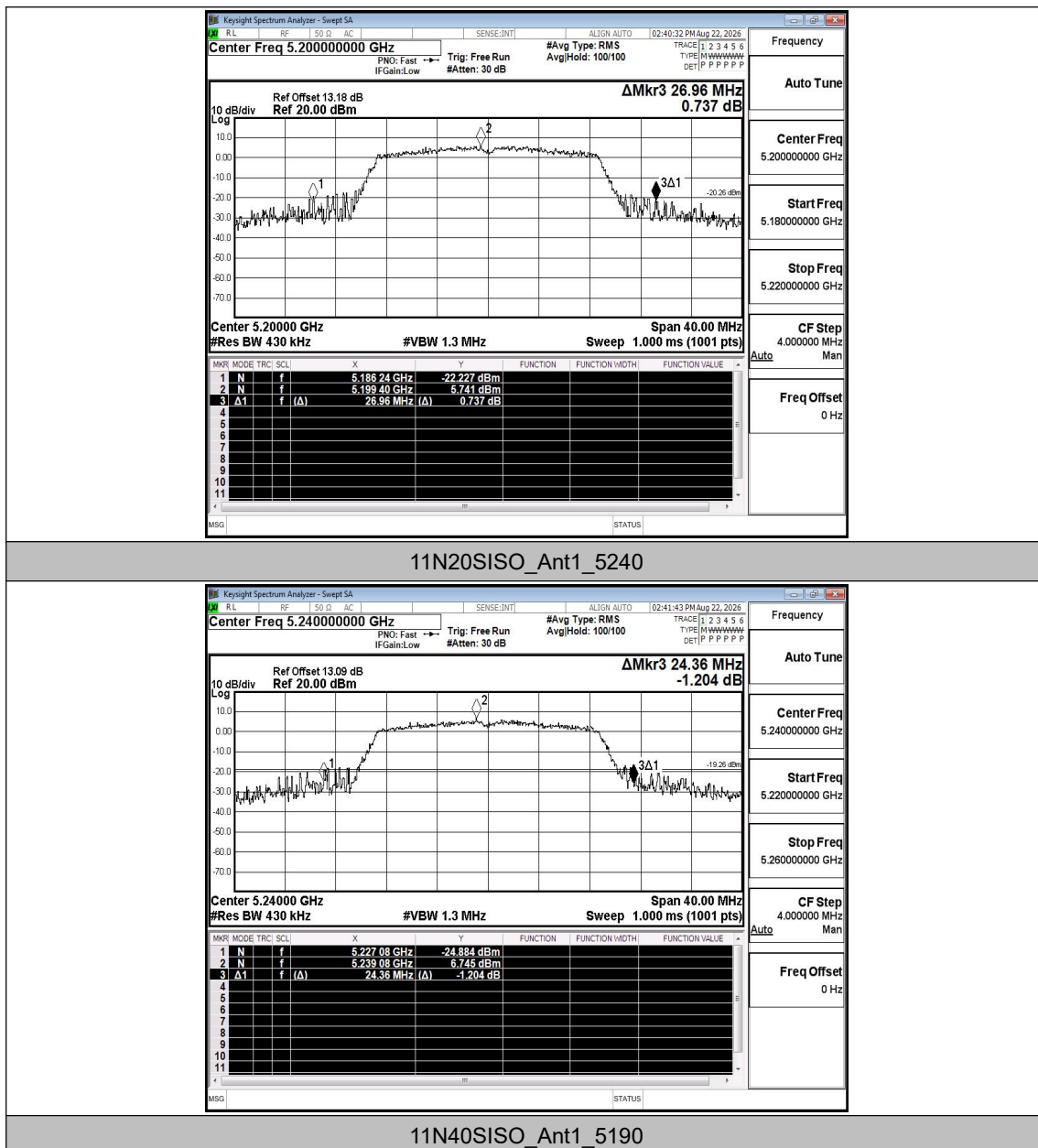


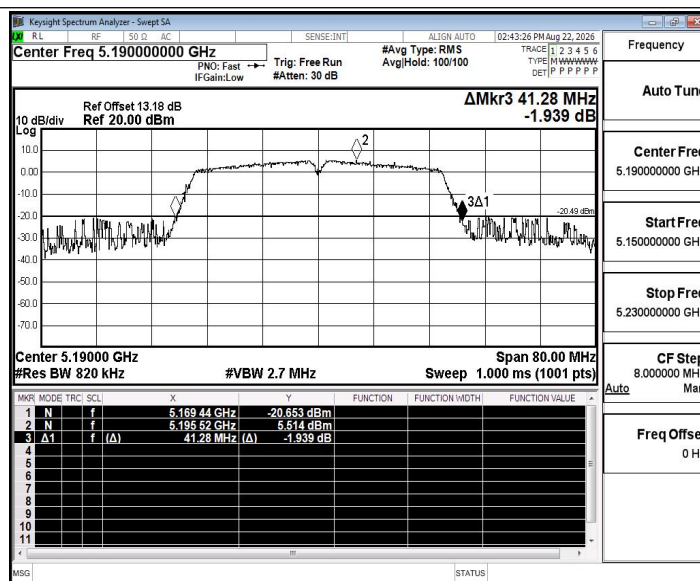
11A_Ant1_5200



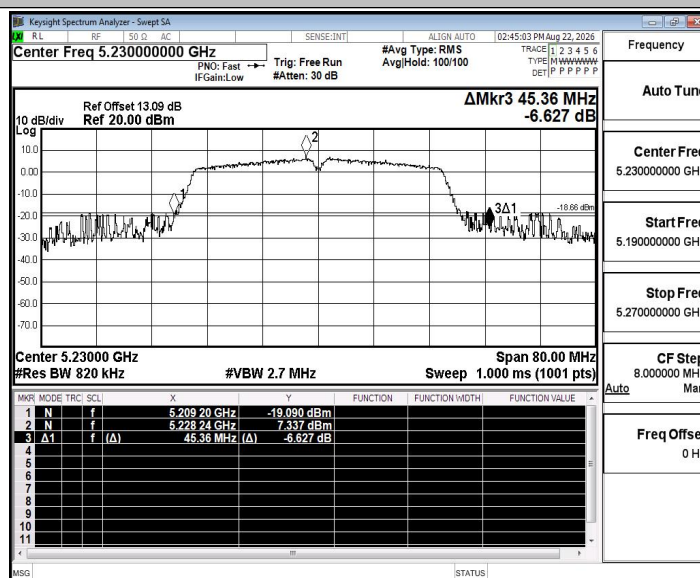
11A_Ant1_5240



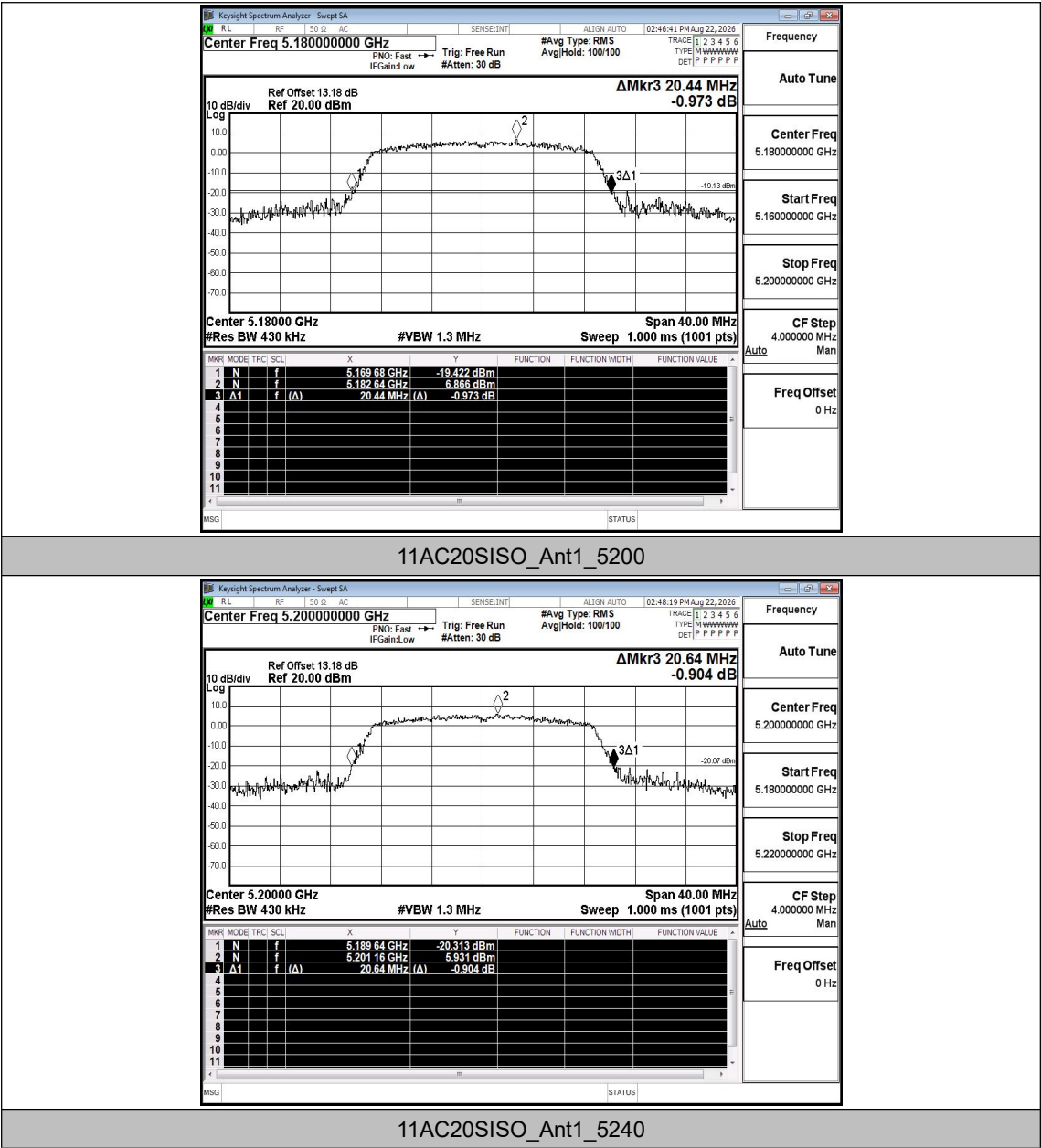


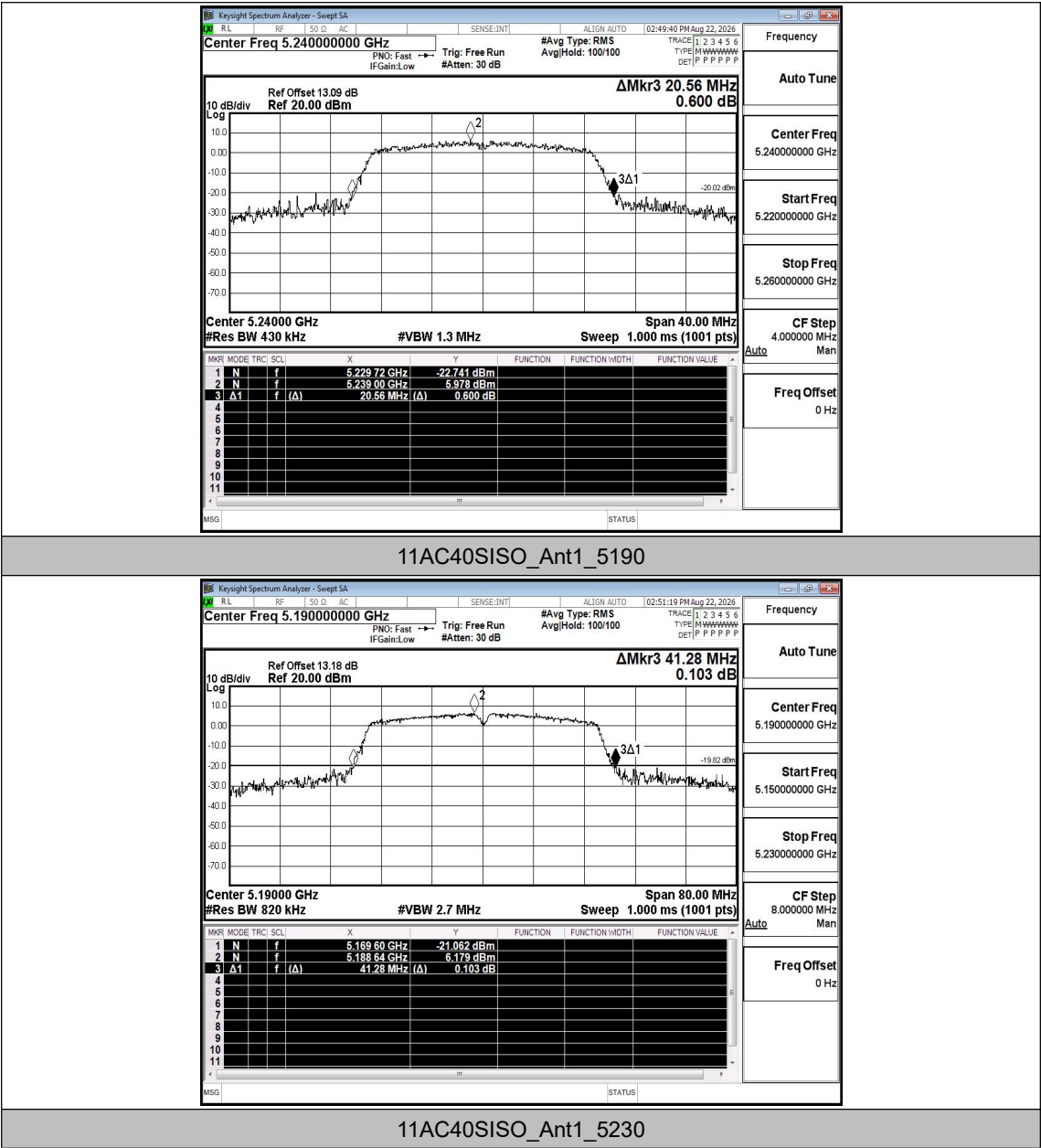


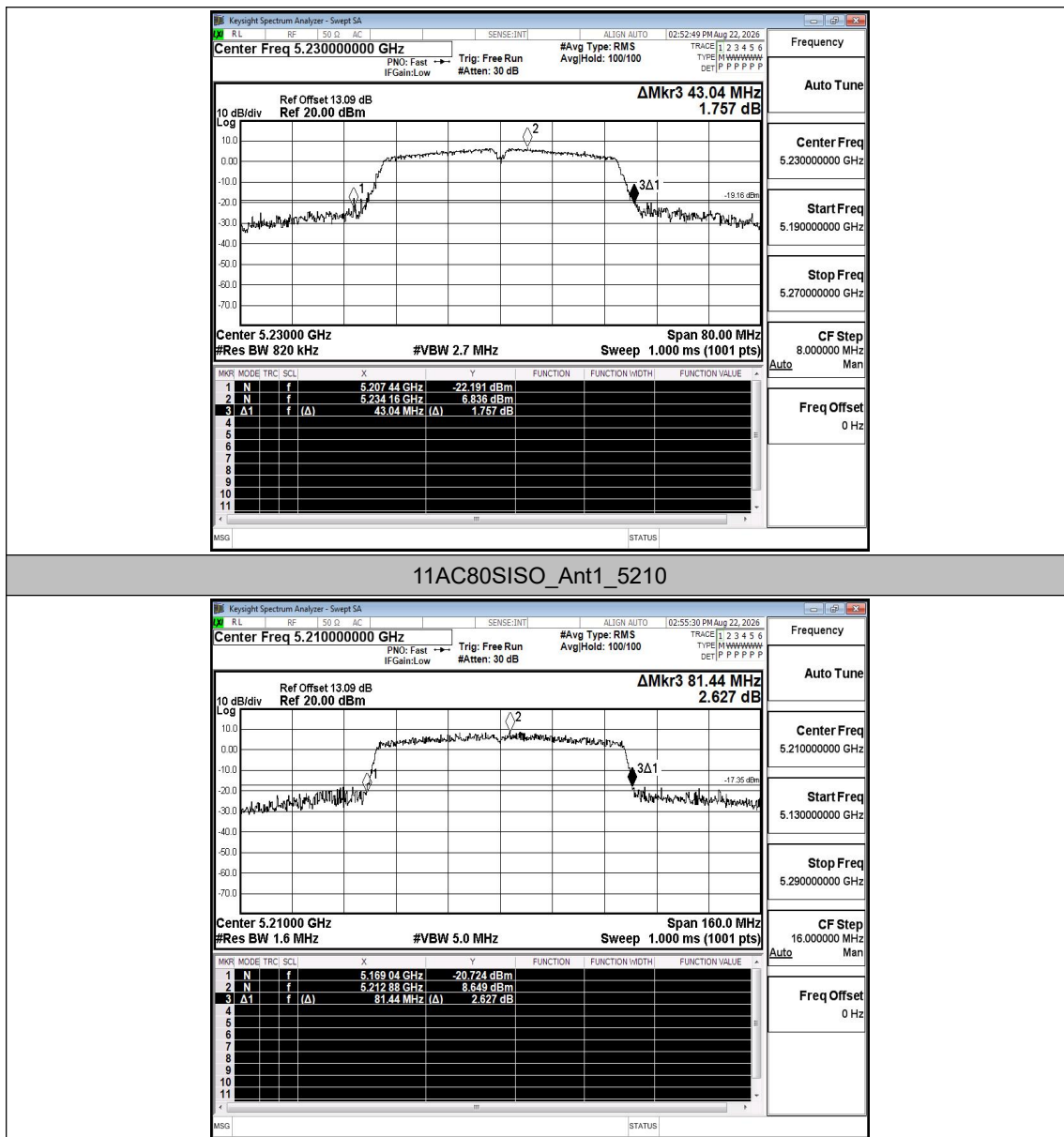
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180







B.2 Maximum conducted output power

Test Result

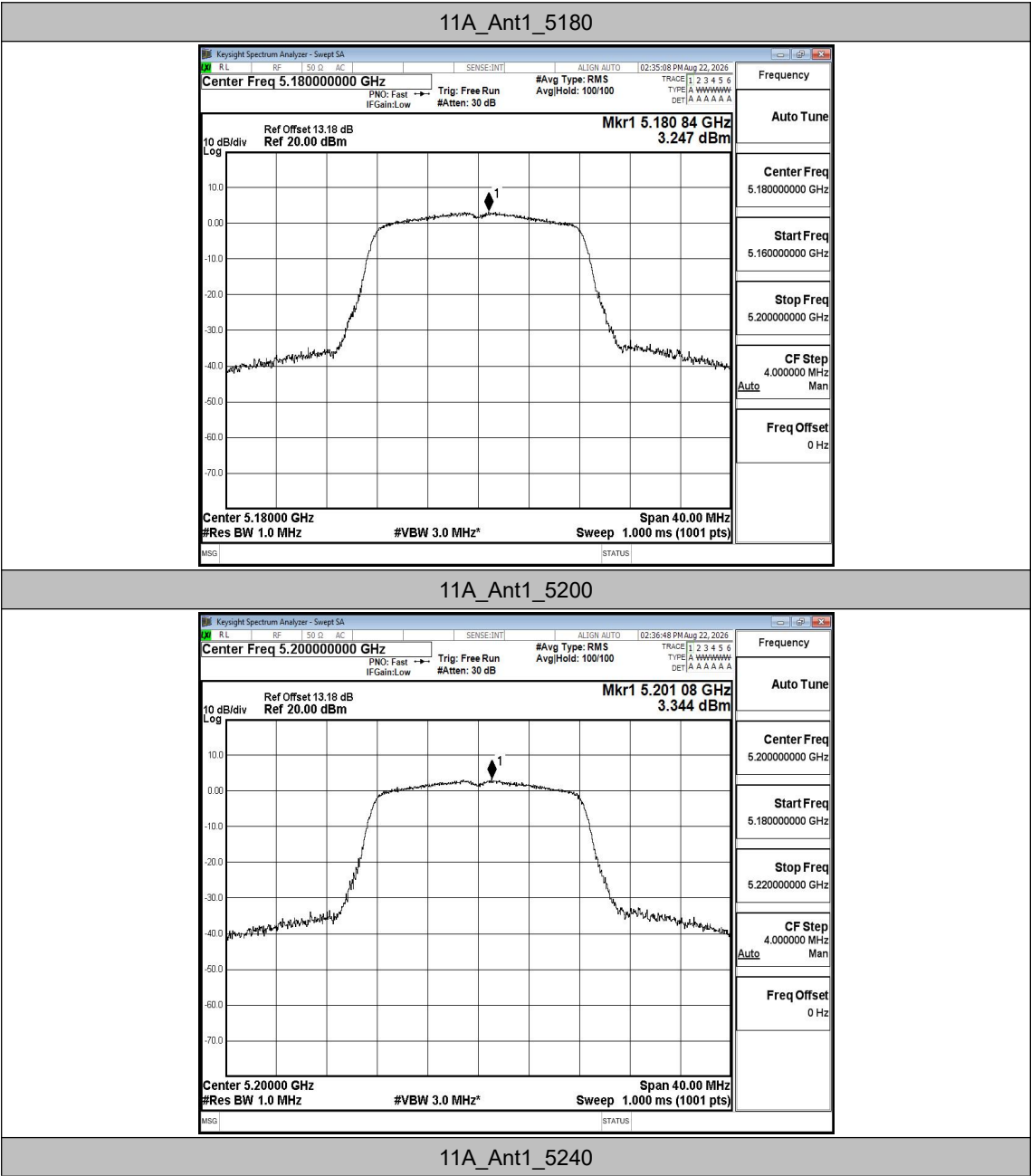
Test Mode	Antenna	Freq(MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	NA	14.25	0.12	14.37	≤24	PASS
		5200	NA	14.47	0.12	14.59	≤24	PASS
		5240	NA	14.17	0.15	14.32	≤24	PASS
11N20SISO	Ant1	5180	NA	14.39	0.16	14.55	≤24	PASS
		5200	NA	14.23	0.13	14.36	≤24	PASS
		5240	NA	13.98	0.17	14.15	≤24	PASS
11N40SISO	Ant1	5190	NA	13.22	0.33	13.55	≤24	PASS
		5230	NA	13.88	0.26	14.14	≤24	PASS
11AC20SISO	Ant1	5180	NA	14.28	0.16	14.44	≤24	PASS
		5200	NA	14.16	0.16	14.32	≤24	PASS
		5240	NA	13.98	0.13	14.11	≤24	PASS
11AC40SISO	Ant1	5190	NA	14.25	0.32	14.57	≤24	PASS
		5230	NA	14.10	0.32	14.42	≤24	PASS
11AC80SISO	Ant1	5210	NA	13.95	0.51	14.46	≤24	PASS

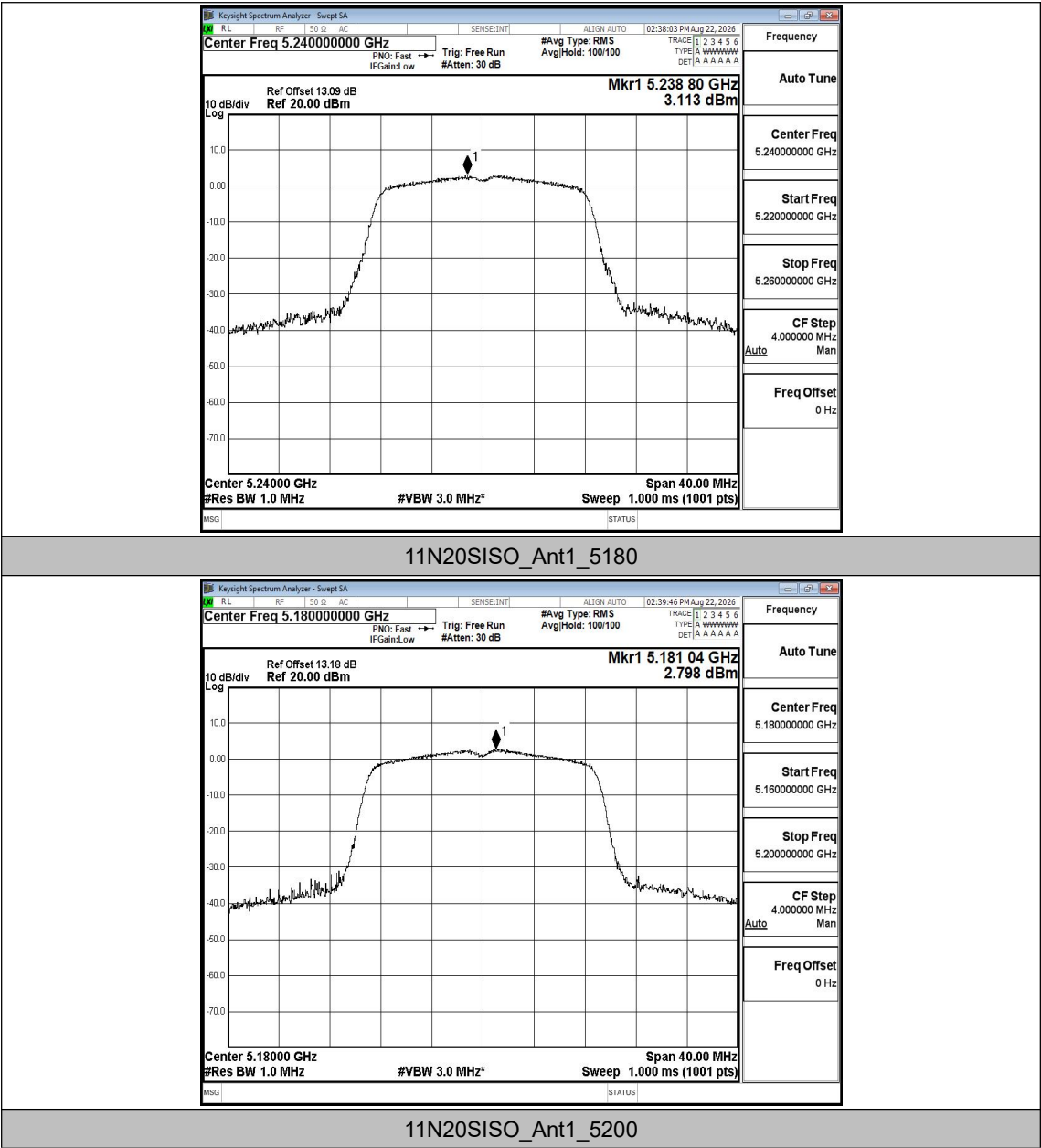
B.3 Maximum power spectral density

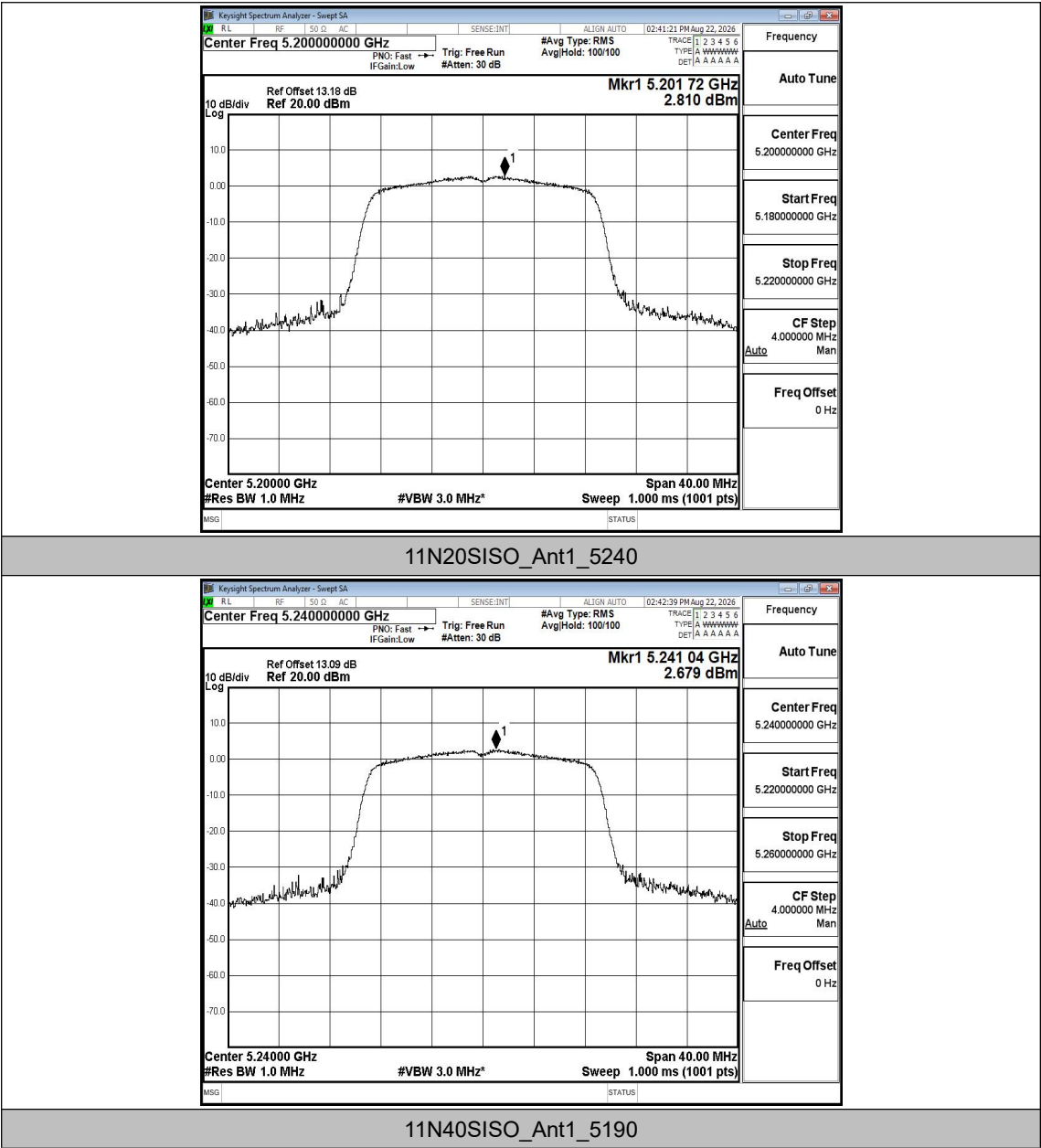
Test Result

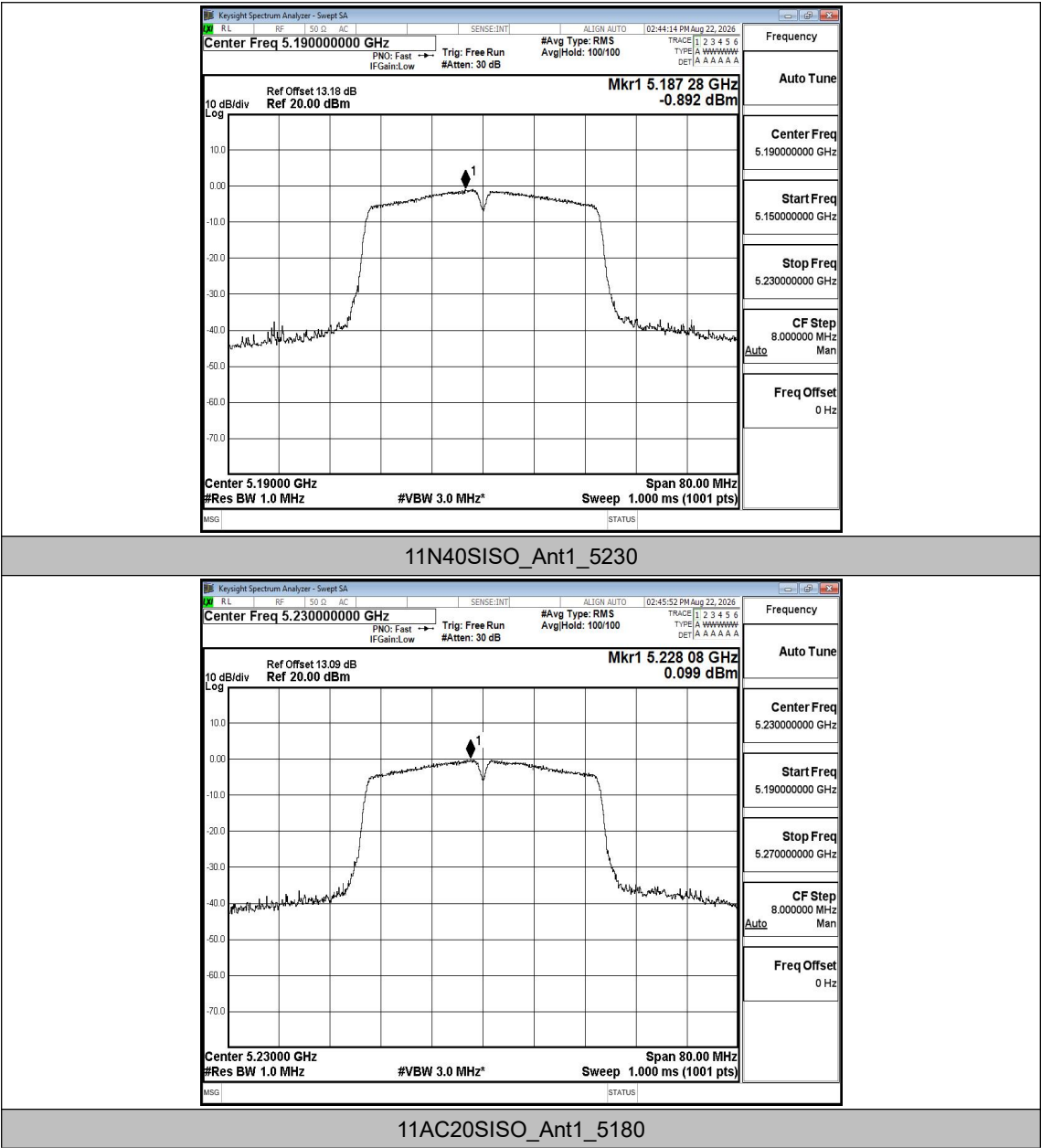
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	3.25	0.12	3.37	≤11.00	PASS
		5200	3.34	0.12	3.46	≤11.00	PASS
		5240	3.11	0.15	3.26	≤11.00	PASS
11N20SISO	Ant1	5180	2.8	0.16	2.96	≤11.00	PASS
		5200	2.81	0.13	2.94	≤11.00	PASS
		5240	2.68	0.17	2.85	≤11.00	PASS
11N40SISO	Ant1	5190	-0.89	0.33	-0.56	≤11.00	PASS
		5230	0.1	0.26	0.36	≤11.00	PASS
11AC20SISO	Ant1	5180	2.72	0.16	2.88	≤11.00	PASS
		5200	2.92	0.16	3.08	≤11.00	PASS
		5240	2.96	0.13	3.09	≤11.00	PASS
11AC40SISO	Ant1	5190	-0.05	0.32	0.27	≤11.00	PASS
		5230	-0.36	0.32	-0.04	≤11.00	PASS
11AC80SISO	Ant1	5210	-3.32	0.51	-2.81	≤11.00	PASS

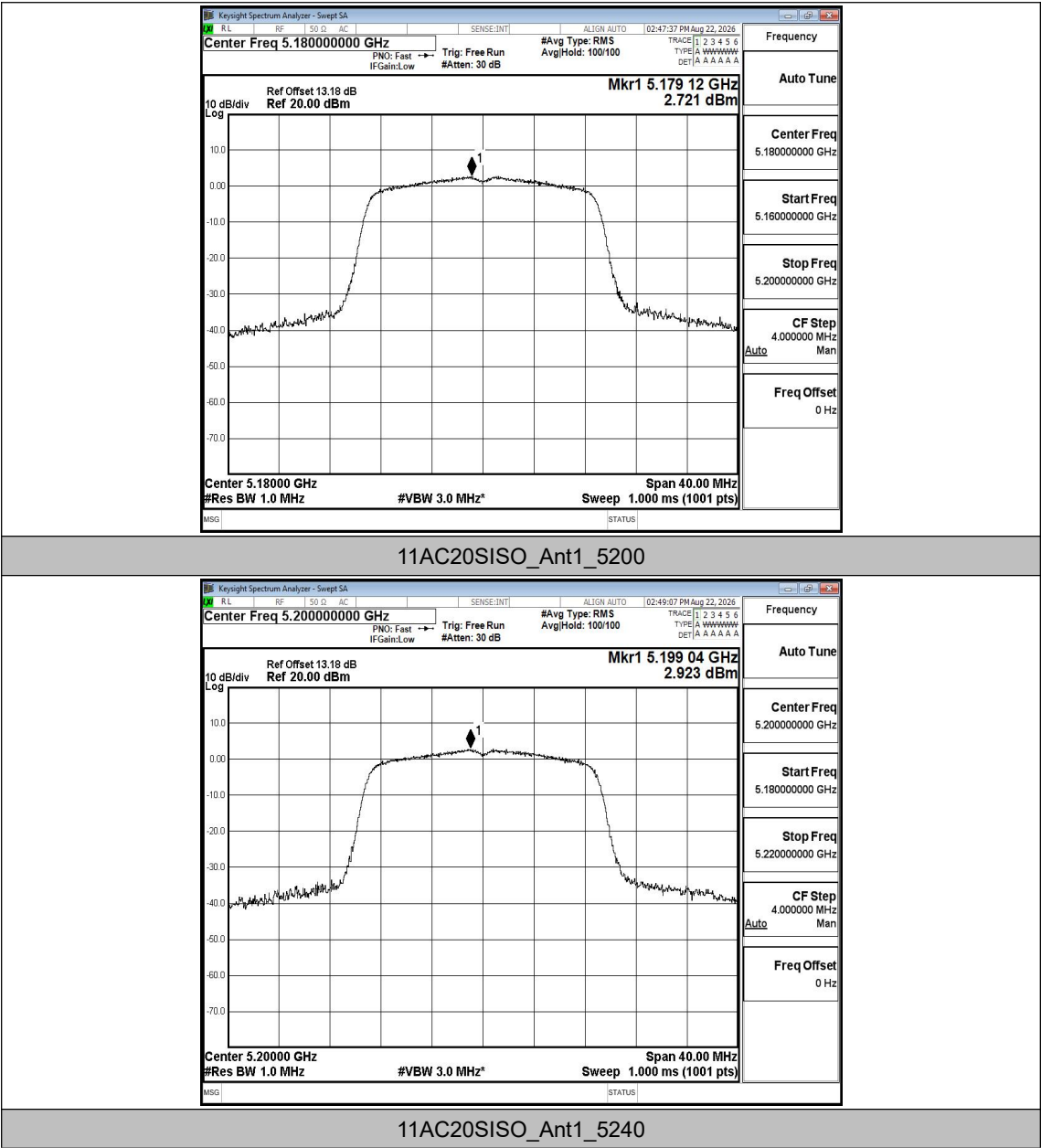
Test Graphs

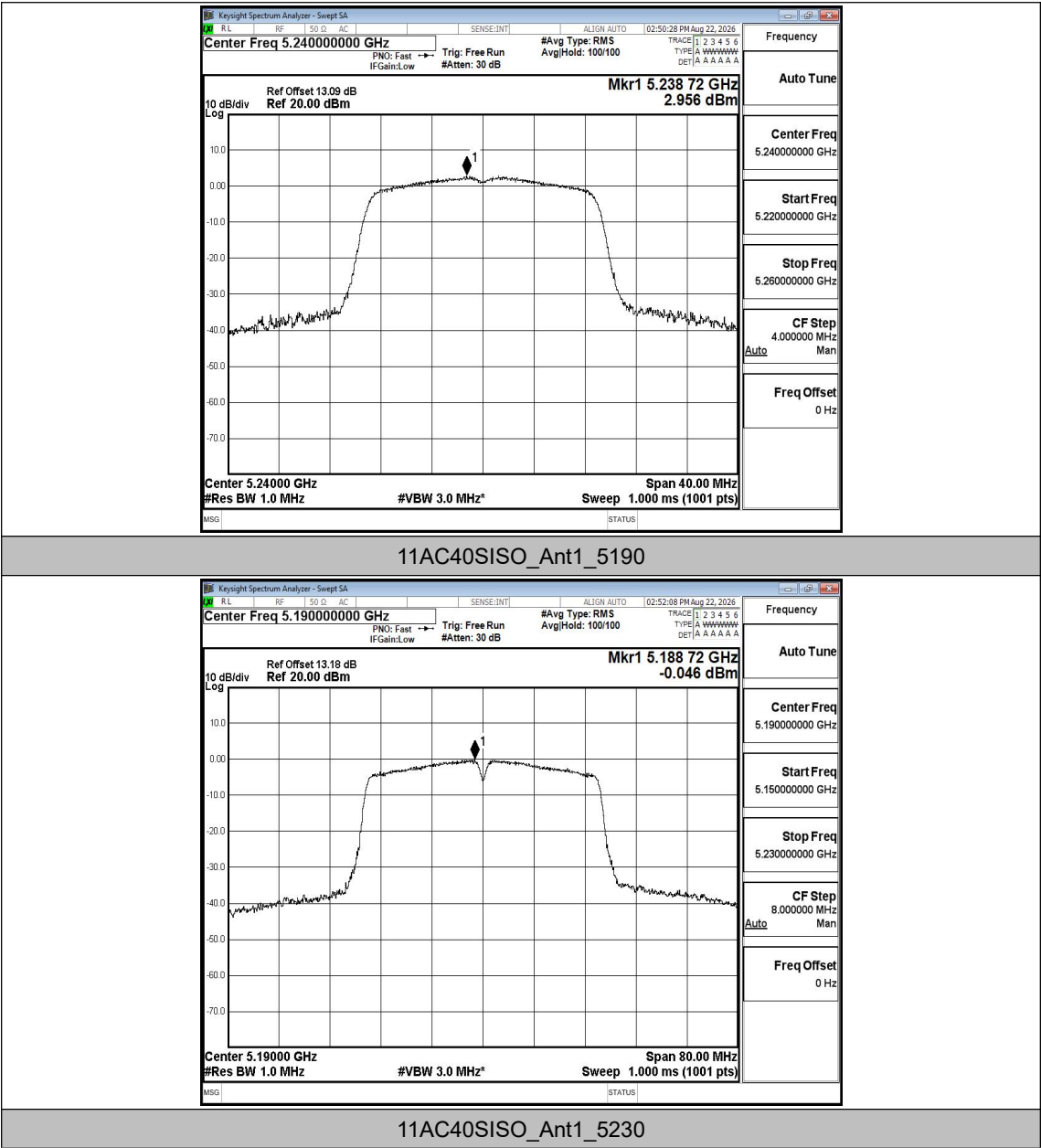


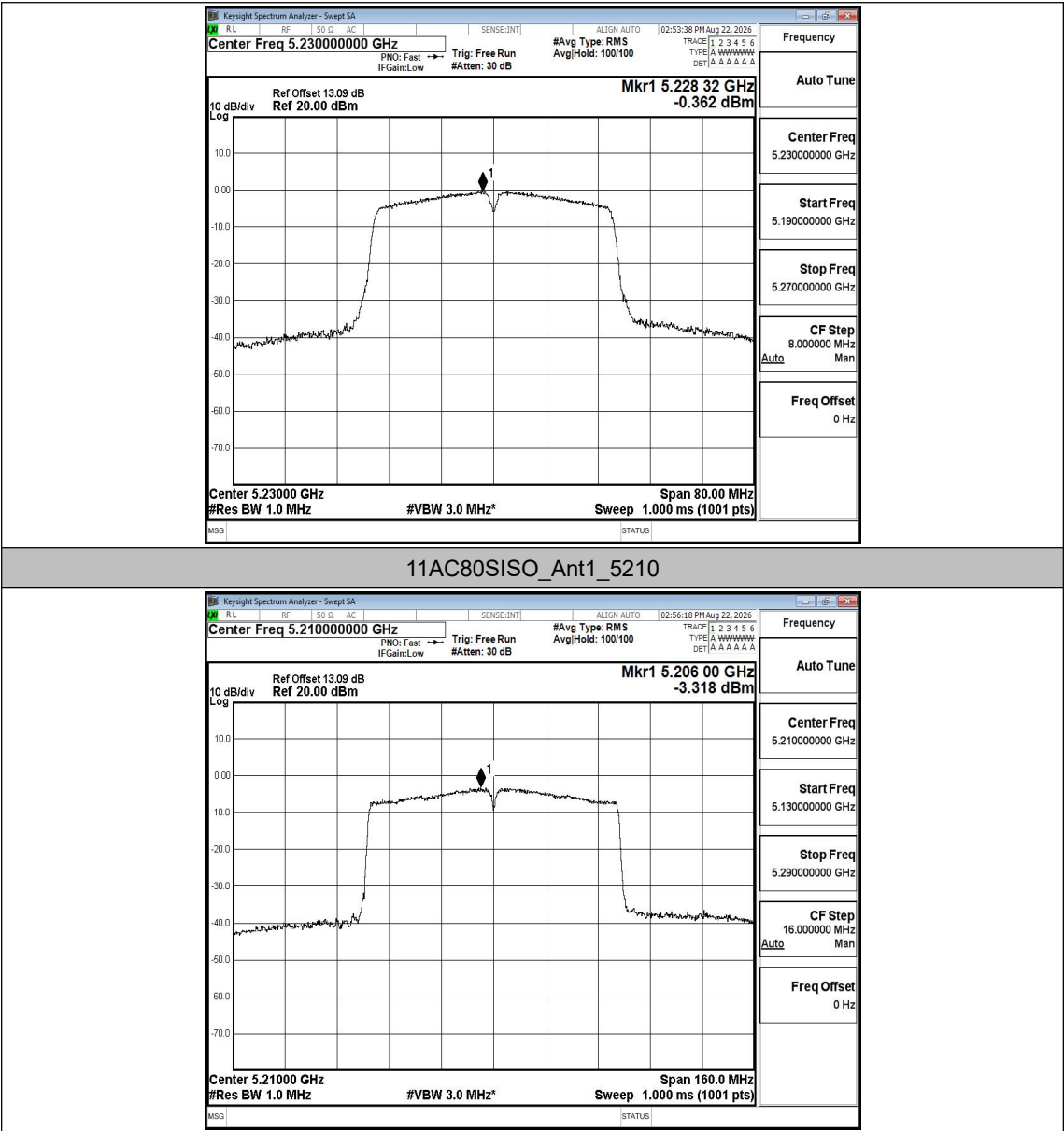












B.4 Emissions in Restricted Bands

Test Result

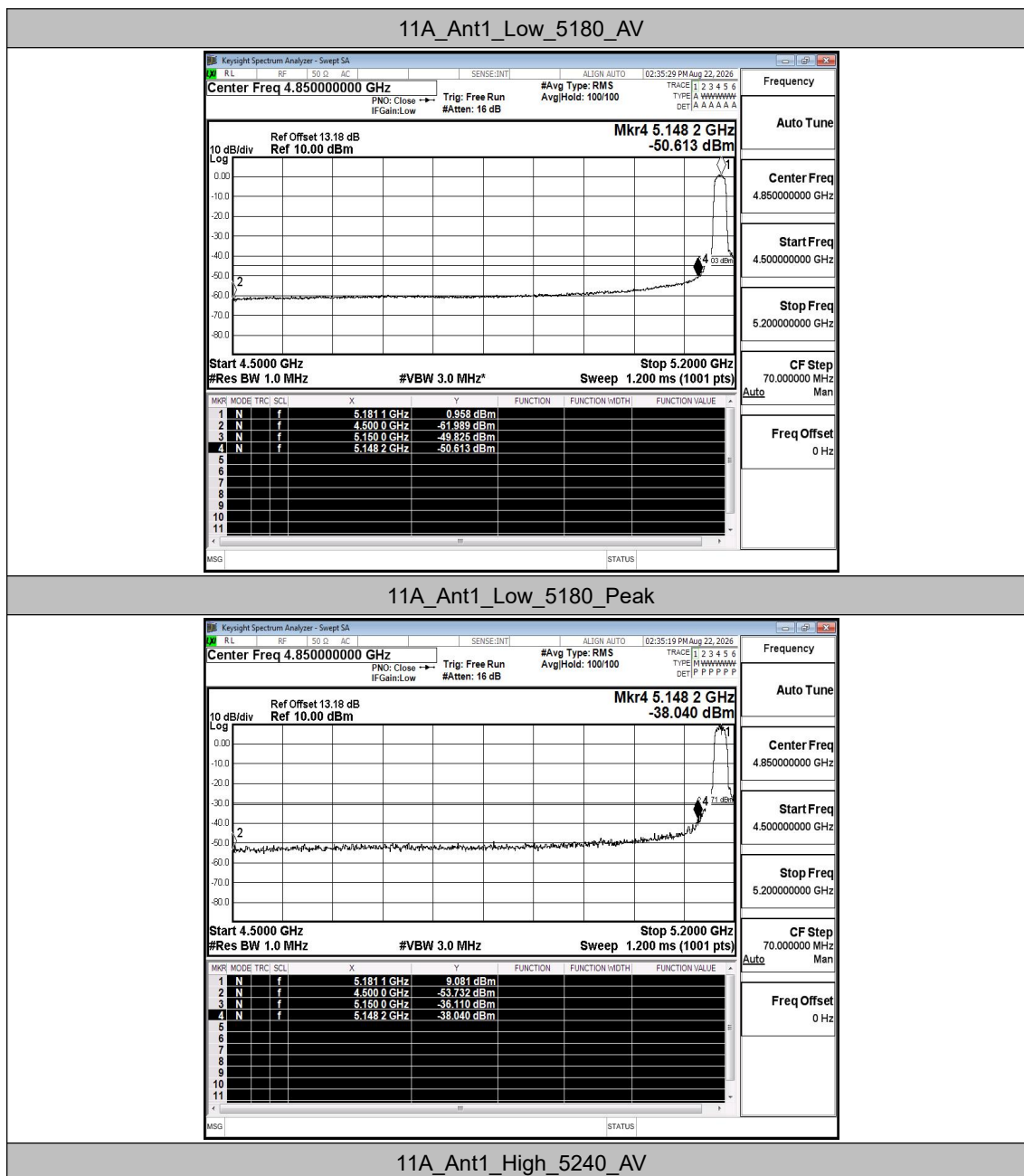
TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-61.99	≤-45.03	3.71	0.12	37.04	≤54	PASS
				AV	5148.200	-50.61	≤-45.03	3.71	0.12	48.42	≤54	PASS
				AV	5150.000	-49.83	≤-45.03	3.71	0.12	49.20	≤54	PASS
				Peak	4500.000	-53.73	≤-30.71	3.71	0.00	45.18	≤68.2	PASS
				Peak	5148.200	-38.04	≤-30.71	3.71	0.00	60.87	≤68.2	PASS
				Peak	5150.000	-36.11	≤-30.71	3.71	0.00	62.80	≤68.2	PASS
		High	5240	AV	5350.000	-56.38	≤-45.06	3.71	0.15	42.68	≤54	PASS
				AV	5351.280	-55.61	≤-45.06	3.71	0.15	43.45	≤54	PASS
				AV	5460.000	-60.44	≤-45.06	3.71	0.15	38.62	≤54	PASS
				Peak	5350.000	-49.47	≤-30.71	3.71	0.00	49.44	≤68.2	PASS
				Peak	5355.360	-46.86	≤-30.71	3.71	0.00	52.05	≤68.2	PASS
				Peak	5460.000	-50.95	≤-30.71	3.71	0.00	47.96	≤68.2	PASS
11N20SISO	Ant1	Low	5180	AV	4500.000	-62.39	≤-45.07	3.71	0.16	36.68	≤54	PASS
				AV	5149.600	-50.02	≤-45.07	3.71	0.16	49.05	≤54	PASS
				AV	5150.000	-50.18	≤-45.07	3.71	0.16	48.89	≤54	PASS
				Peak	4500.000	-52.71	≤-30.71	3.71	0.00	46.20	≤68.2	PASS
				Peak	5149.600	-37.01	≤-30.71	3.71	0.00	61.90	≤68.2	PASS
				Peak	5150.000	-37.65	≤-30.71	3.71	0.00	61.26	≤68.2	PASS
		High	5240	AV	5350.000	-56.42	≤-45.08	3.71	0.17	42.66	≤54	PASS
				AV	5353.440	-55.76	≤-45.08	3.71	0.17	43.32	≤54	PASS
				AV	5460.000	-60.55	≤-45.08	3.71	0.17	38.53	≤54	PASS
				Peak	5350.000	-48.58	≤-30.71	3.71	0.00	50.33	≤68.2	PASS
				Peak	5354.400	-46.69	≤-30.71	3.71	0.00	52.22	≤68.2	PASS
				Peak	5460.000	-52.08	≤-30.71	3.71	0.00	46.83	≤68.2	PASS
11N40SISO	Ant1	Low	5190	AV	4500.000	-67.8	≤-45.24	3.71	0.33	31.44	≤54	PASS
				AV	5147.500	-53.94	≤-45.24	3.71	0.33	45.30	≤54	PASS
				AV	5150.000	-53.28	≤-45.24	3.71	0.33	45.96	≤54	PASS
				Peak	4500.000	-59.53	≤-30.71	3.71	0.00	39.38	≤68.2	PASS
				Peak	5146.100	-37.75	≤-30.71	3.71	0.00	61.16	≤68.2	PASS
				Peak	5150.000	-46.73	≤-30.71	3.71	0.00	52.18	≤68.2	PASS
		High	5230	AV	5350.000	-56.34	≤-45.17	3.71	0.26	42.83	≤54	PASS
				AV	5353.140	-55.97	≤-45.17	3.71	0.26	43.20	≤54	PASS
				AV	5460.000	-59.98	≤-45.17	3.71	0.26	39.19	≤54	PASS
				Peak	5350.000	-46.08	≤-30.71	3.71	0.00	52.83	≤68.2	PASS
				Peak	5350.020	-46.08	≤-30.71	3.71	0.00	52.83	≤68.2	PASS

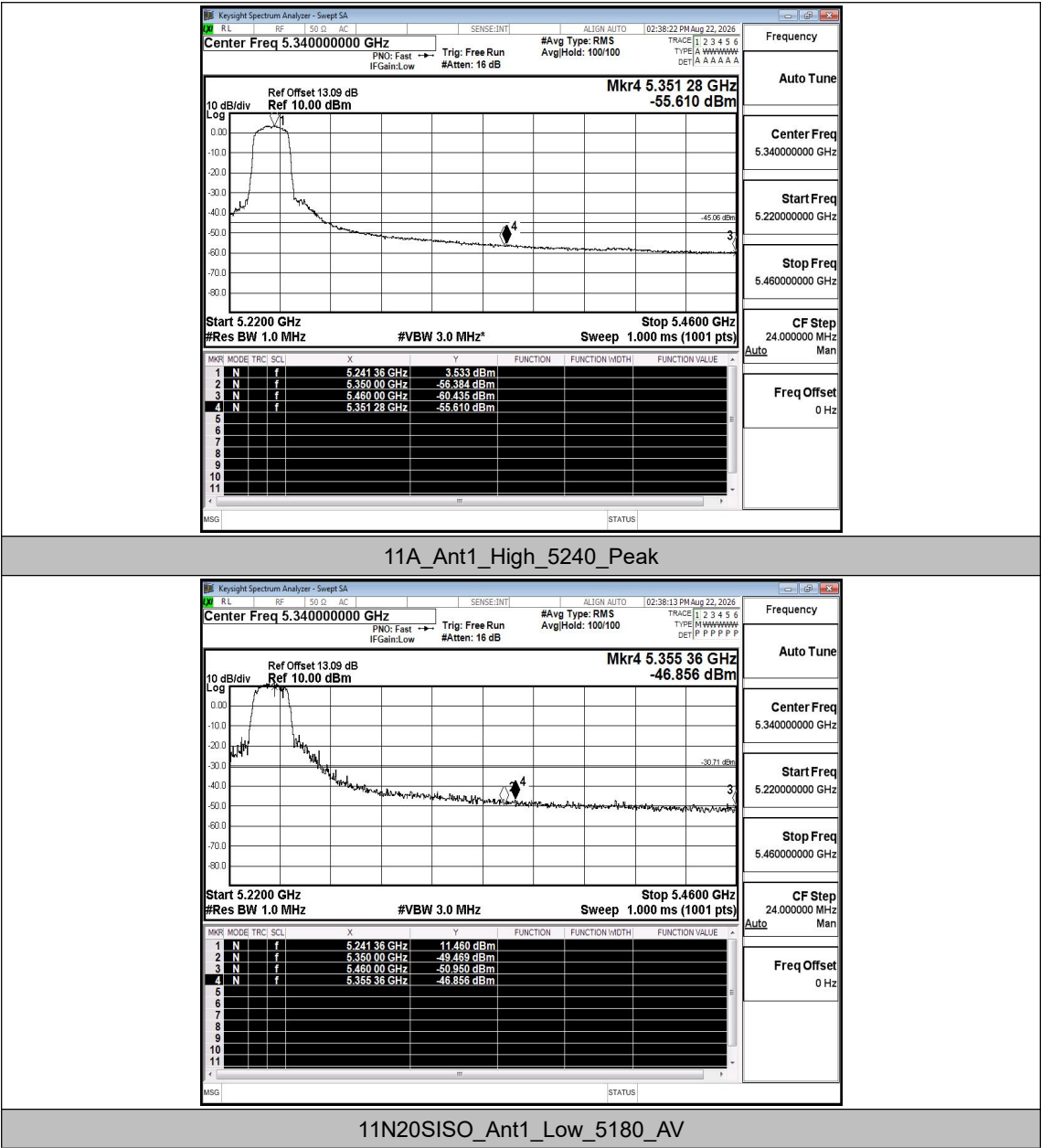
				Peak	5460.000	-51.89	≤-30.71	3.71	0.00	47.02	≤68.2	PASS
11AC20SISO	Ant1	Low	5180	AV	4500.000	-62.74	≤-45.07	3.71	0.16	36.33	≤54	PASS
				AV	5148.900	-49.88	≤-45.07	3.71	0.16	49.19	≤54	PASS
				AV	5150.000	-50.56	≤-45.07	3.71	0.16	48.51	≤54	PASS
				Peak	4500.000	-54.19	≤-30.71	3.71	0.00	44.72	≤68.2	PASS
				Peak	5148.900	-37.98	≤-30.71	3.71	0.00	60.93	≤68.2	PASS
				Peak	5150.000	-40.14	≤-30.71	3.71	0.00	58.77	≤68.2	PASS
		High	5240	AV	5350.000	-56.94	≤-45.04	3.71	0.13	42.10	≤54	PASS
				AV	5352.240	-55.87	≤-45.04	3.71	0.13	43.17	≤54	PASS
				AV	5460.000	-60.25	≤-45.04	3.71	0.13	38.79	≤54	PASS
				Peak	5350.000	-49.08	≤-30.71	3.71	0.00	49.83	≤68.2	PASS
				Peak	5352.720	-45.52	≤-30.71	3.71	0.00	53.39	≤68.2	PASS
				Peak	5460.000	-53.56	≤-30.71	3.71	0.00	45.35	≤68.2	PASS
11AC40SISO	Ant1	Low	5190	AV	4500.000	-67.91	≤-45.23	3.71	0.32	31.32	≤54	PASS
				AV	5148.900	-54.93	≤-45.23	3.71	0.32	44.30	≤54	PASS
				AV	5150.000	-54.76	≤-45.23	3.71	0.32	44.47	≤54	PASS
				Peak	4500.000	-60.36	≤-30.71	3.71	0.00	38.55	≤68.2	PASS
				Peak	5141.900	-46.22	≤-30.71	3.71	0.00	52.69	≤68.2	PASS
				Peak	5150.000	-45.93	≤-30.71	3.71	0.00	52.98	≤68.2	PASS
		High	5230	AV	5350.000	-56.36	≤-45.23	3.71	0.32	42.87	≤54	PASS
				AV	5353.140	-55.83	≤-45.23	3.71	0.32	43.40	≤54	PASS
				AV	5460.000	-59.54	≤-45.23	3.71	0.32	39.69	≤54	PASS
				Peak	5350.000	-47.66	≤-30.71	3.71	0.00	51.25	≤68.2	PASS
				Peak	5352.620	-46.22	≤-30.71	3.71	0.00	52.69	≤68.2	PASS
				Peak	5460.000	-52.56	≤-30.71	3.71	0.00	46.35	≤68.2	PASS
11AC80SISO	Ant1	Low	5210	AV	4500.000	-68.15	≤-45.42	3.71	0.51	31.27	≤54	PASS
				AV	5148.750	-53.44	≤-45.42	3.71	0.51	45.98	≤54	PASS
				AV	5150.000	-53.44	≤-45.42	3.71	0.51	45.98	≤54	PASS
				Peak	4500.000	-60.36	≤-30.71	3.71	0.00	38.55	≤68.2	PASS
				Peak	5146.500	-40.99	≤-30.71	3.71	0.00	57.92	≤68.2	PASS
				Peak	5150.000	-44.31	≤-30.71	3.71	0.00	54.60	≤68.2	PASS
		High	5210	AV	5350.000	-54.38	≤-45.42	3.71	0.51	45.04	≤54	PASS
				AV	5353.040	-53.35	≤-45.42	3.71	0.51	46.07	≤54	PASS
				AV	5460.000	-60.34	≤-45.42	3.71	0.51	39.08	≤54	PASS
				Peak	5350.000	-39.92	≤-30.71	3.71	0.00	58.99	≤68.2	PASS
				Peak	5352.480	-39.45	≤-30.71	3.71	0.00	59.46	≤68.2	PASS
				Peak	5460.000	-50.53	≤-30.71	3.71	0.00	48.38	≤68.2	PASS

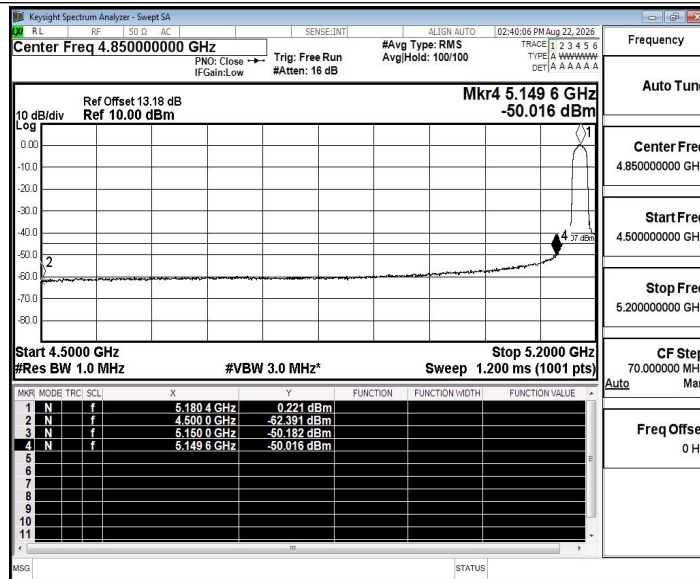
Note:

1. The Antenna Gain is compensated in the graph.

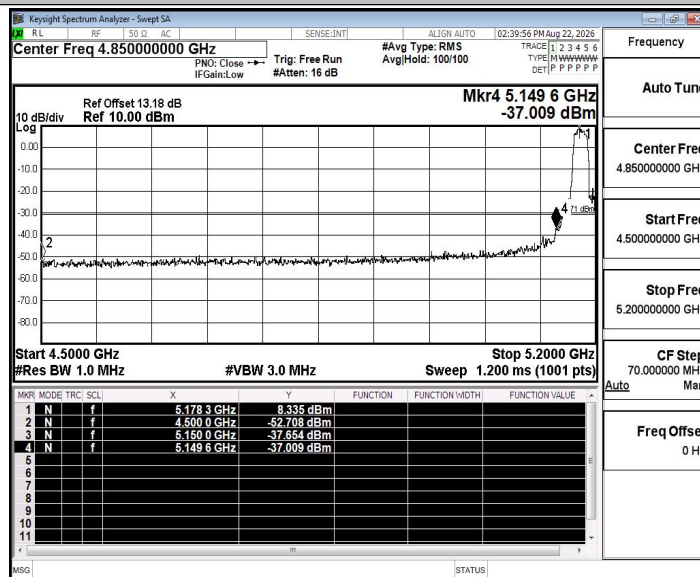
Test Graphs







11N20SISO_Ant1_Low_5180_Peak



11N20SISO_Ant1_High_5240_AV

