

Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Touch Screen Display

Test Model: CP70

Environmental Conditions

Temperature:	24.8°C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

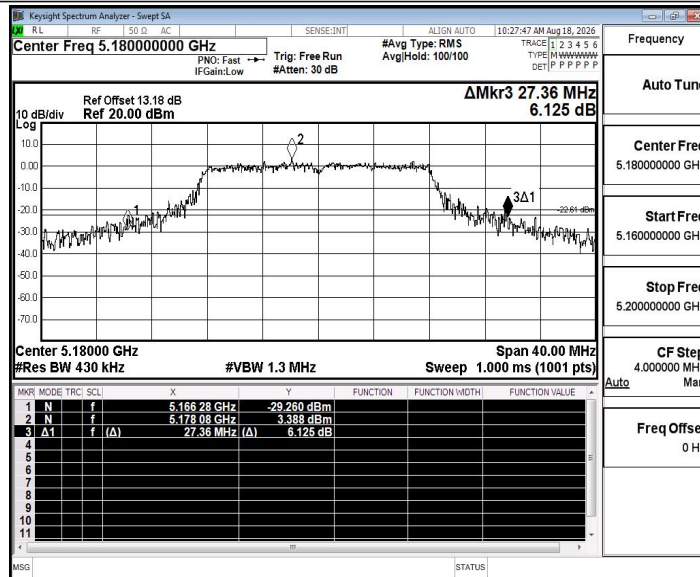
D.1 Emission Bandwidth

Test Result

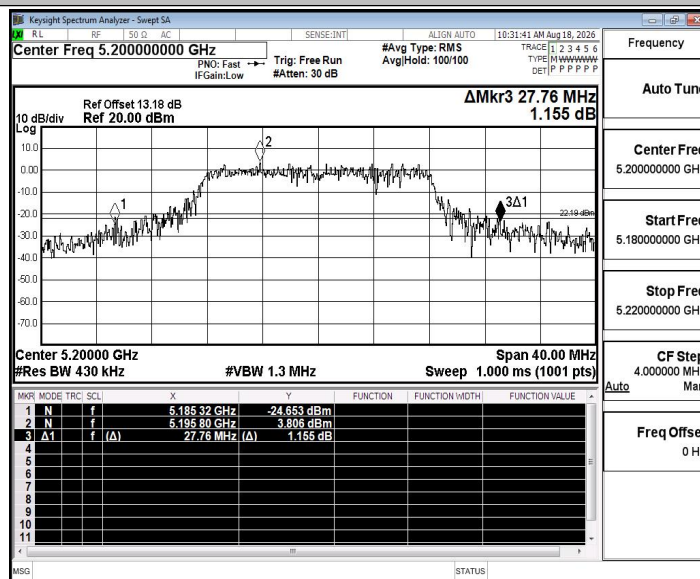
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	27.360	5166.280	5193.640	---	---
		5200	27.760	5185.320	5213.080	---	---
		5240	24.480	5228.480	5252.960	---	---
11N20SISO	Ant1	5180	29.560	5165.480	5195.040	---	---
		5200	26.600	5187.400	5214.000	---	---
		5240	33.480	5221.120	5254.600	---	---
11N40SISO	Ant1	5190	58.960	5161.760	5220.720	---	---
		5230	51.920	5203.920	5255.840	---	---
11AC20SISO	Ant1	5180	27.080	5166.600	5193.680	---	---
		5200	31.720	5182.160	5213.880	---	---
		5240	26.960	5227.440	5254.400	---	---
11AC40SISO	Ant1	5190	64.240	5163.200	5227.440	---	---
		5230	54.080	5205.920	5260.000	---	---

Test Graphs

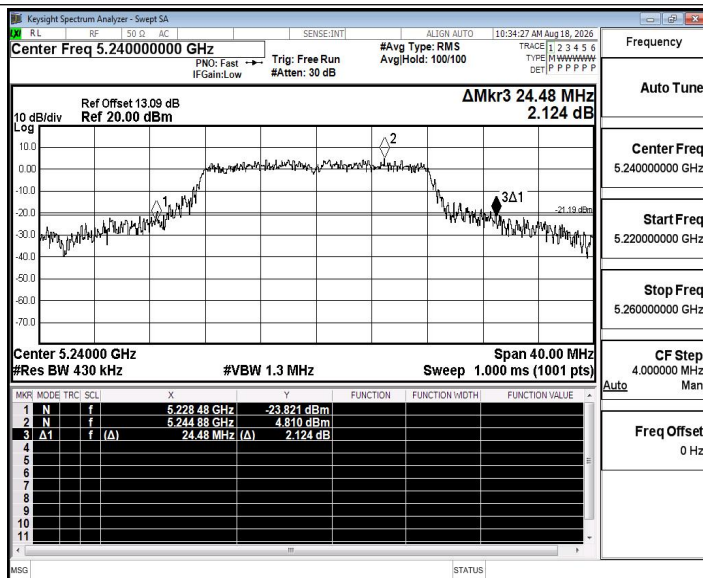
11A_Ant1_5180



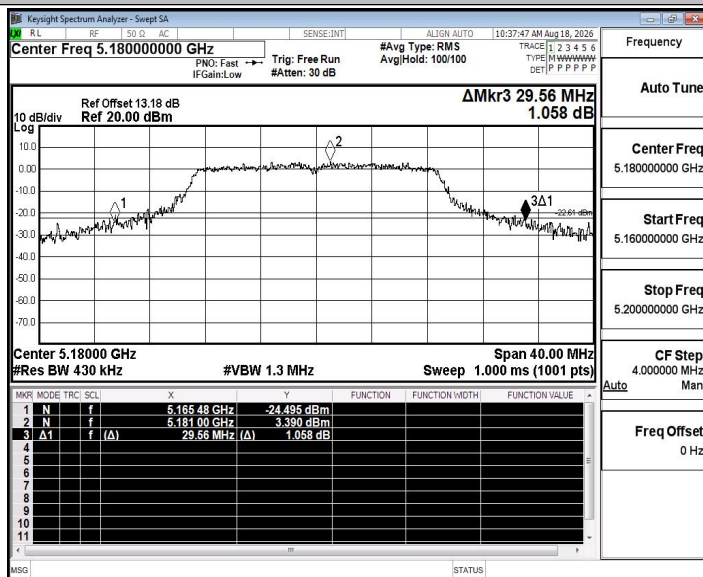
11A_Ant1_5200



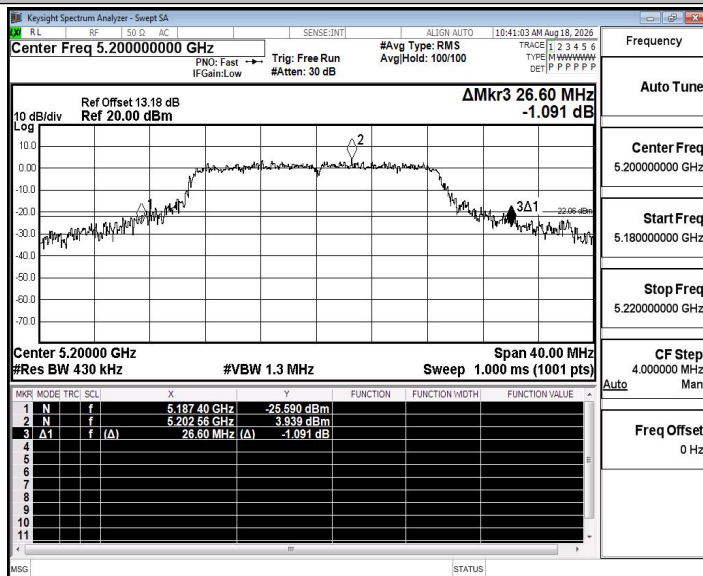
11A_Ant1_5240



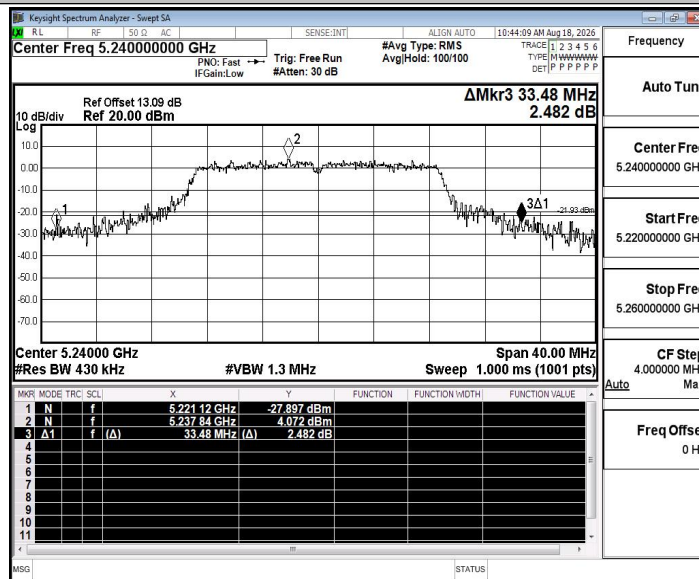
11N20SISO_Ant1_5180



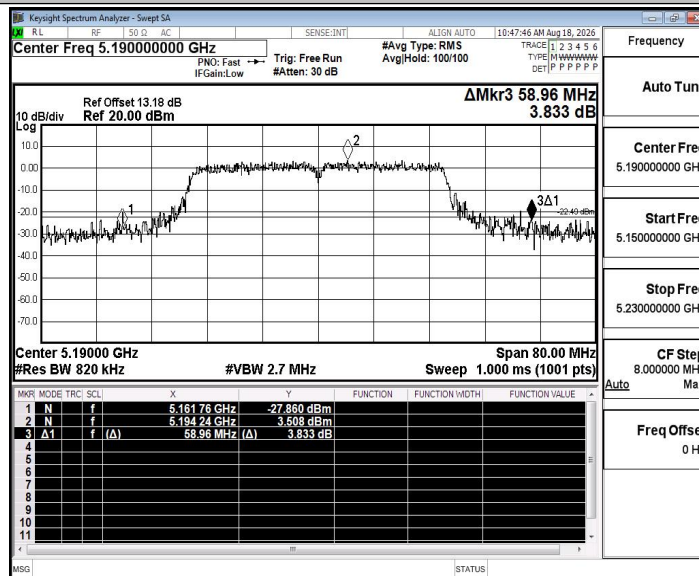
11N20SISO_Ant1_5200



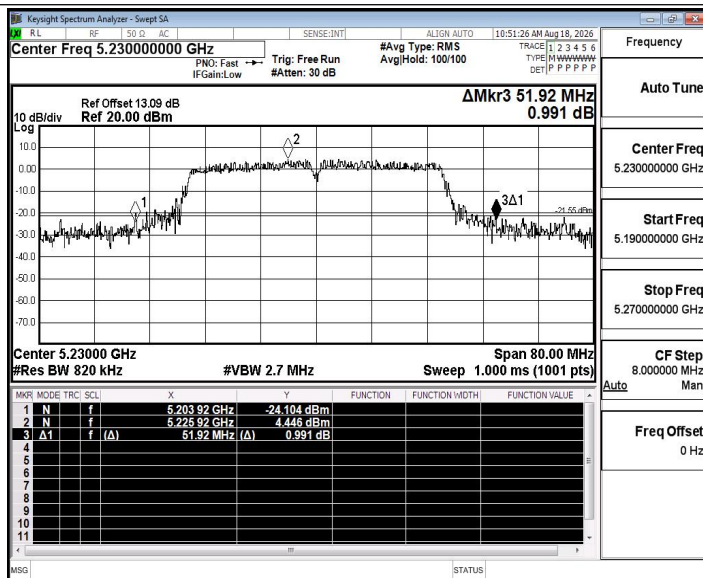
11N20SISO_Ant1_5240



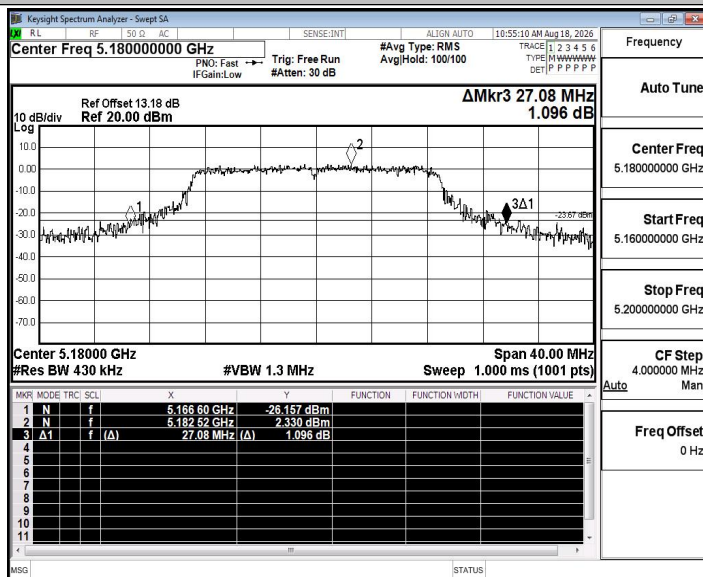
11N40SISO_Ant1_5190



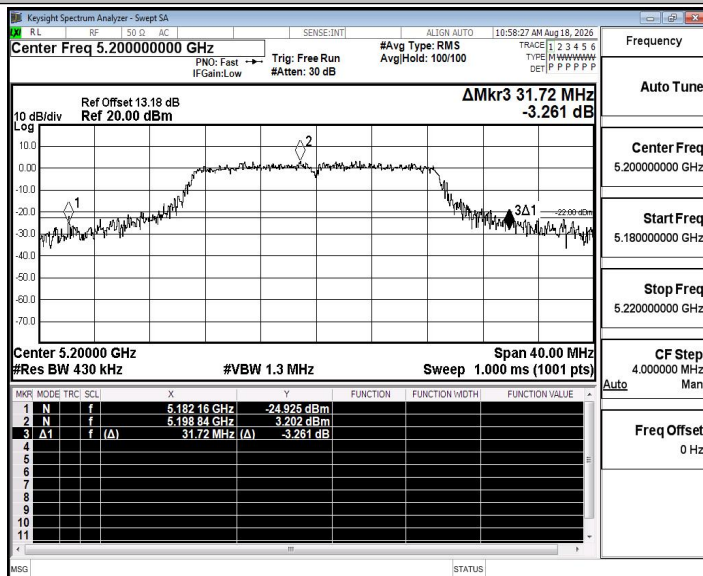
11N40SISO_Ant1_5230



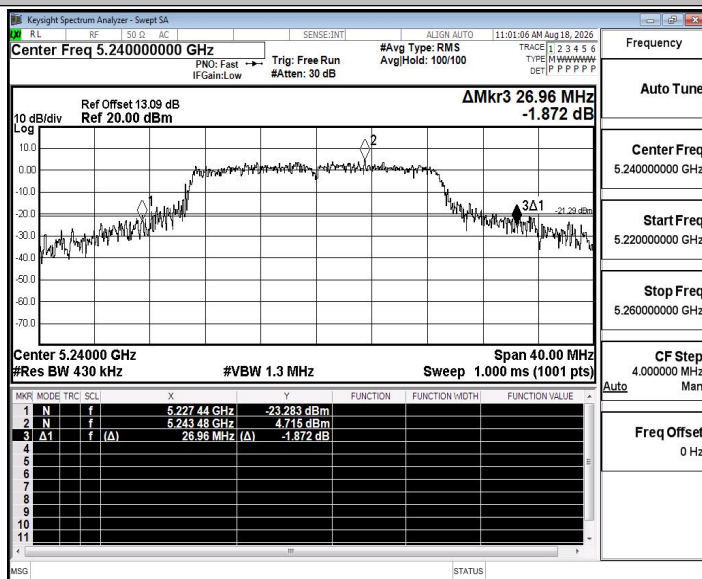
11AC20SISO_Ant1_5180



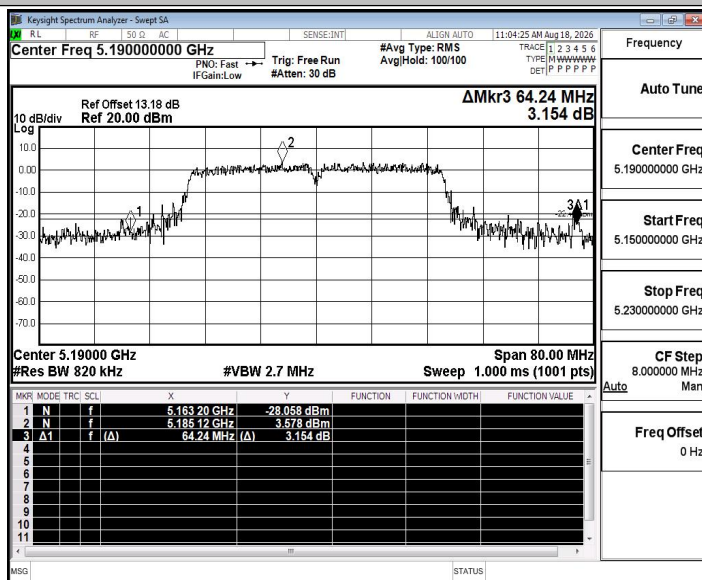
11AC20SISO_Ant1_5200



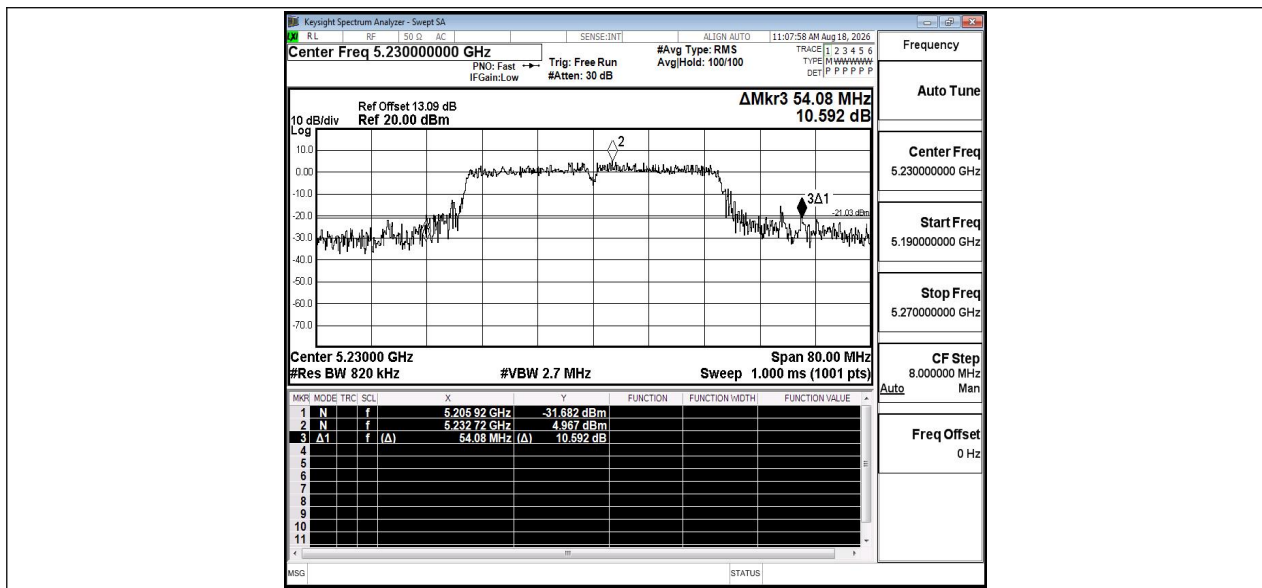
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



D.2 Maximum conducted output power

Test Result Channel Power

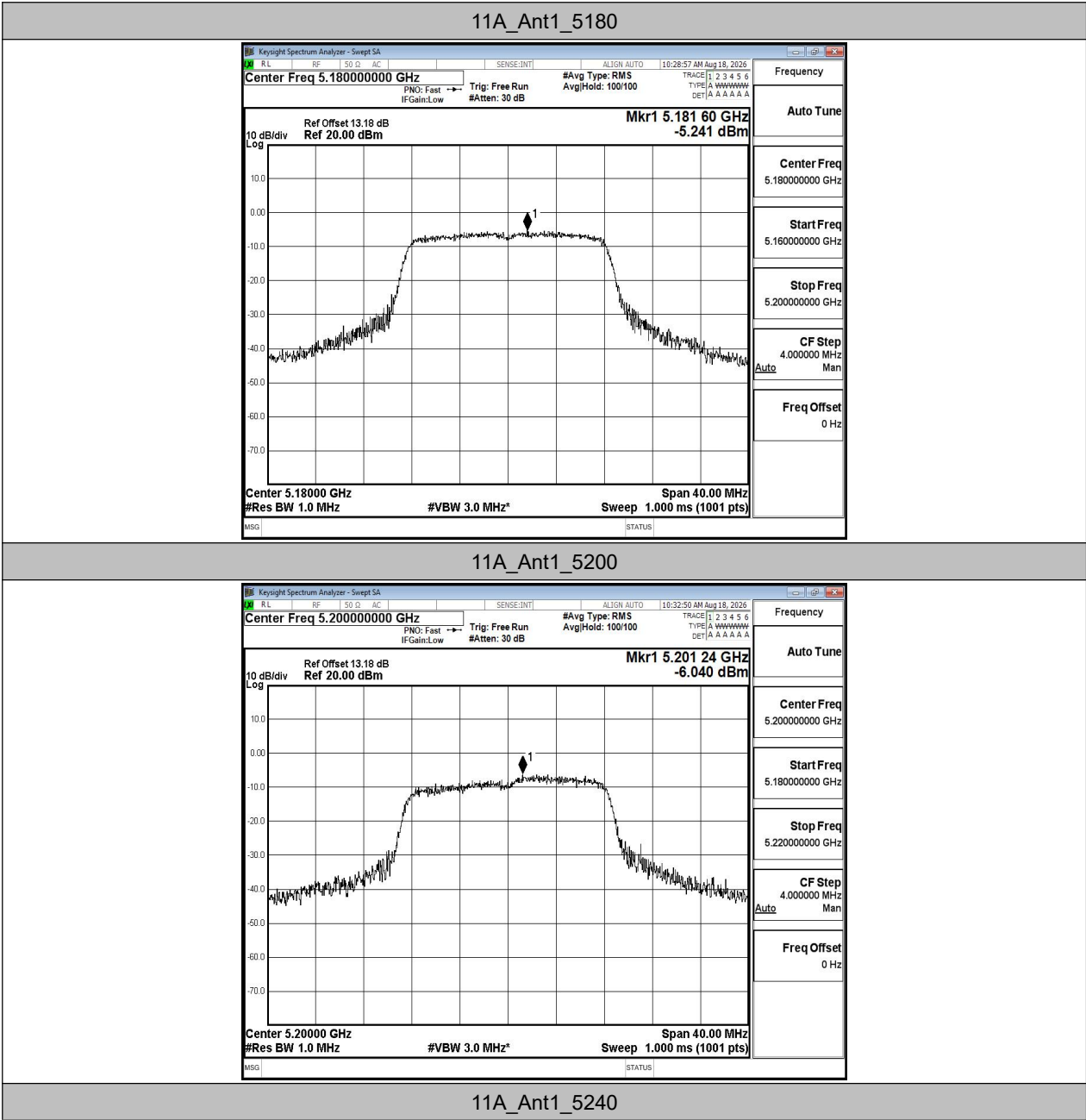
Test Mode	Antenna	Freq(MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	NA	3.22	7.71	10.93	≤23.98	PASS
		5200	NA	5.59	7.71	13.3	≤23.98	PASS
		5240	NA	5.46	7.76	13.22	≤23.98	PASS
11N20SISO	Ant1	5180	NA	3.12	7.97	11.09	≤23.98	PASS
		5200	NA	3.89	8	11.89	≤23.98	PASS
		5240	NA	5.04	7.99	13.03	≤23.98	PASS
11N40SISO	Ant1	5190	NA	1.66	10.76	12.42	≤23.98	PASS
		5230	NA	1.72	10.71	12.43	≤23.98	PASS
11AC20SISO	Ant1	5180	NA	3.11	7.95	11.06	≤23.98	PASS
		5200	NA	3.86	8	11.86	≤23.98	PASS
		5240	NA	4.99	7.98	12.97	≤23.98	PASS
11AC40SISO	Ant1	5190	NA	0.38	10.67	11.05	≤23.98	PASS
		5230	NA	1.73	10.67	12.4	≤23.98	PASS

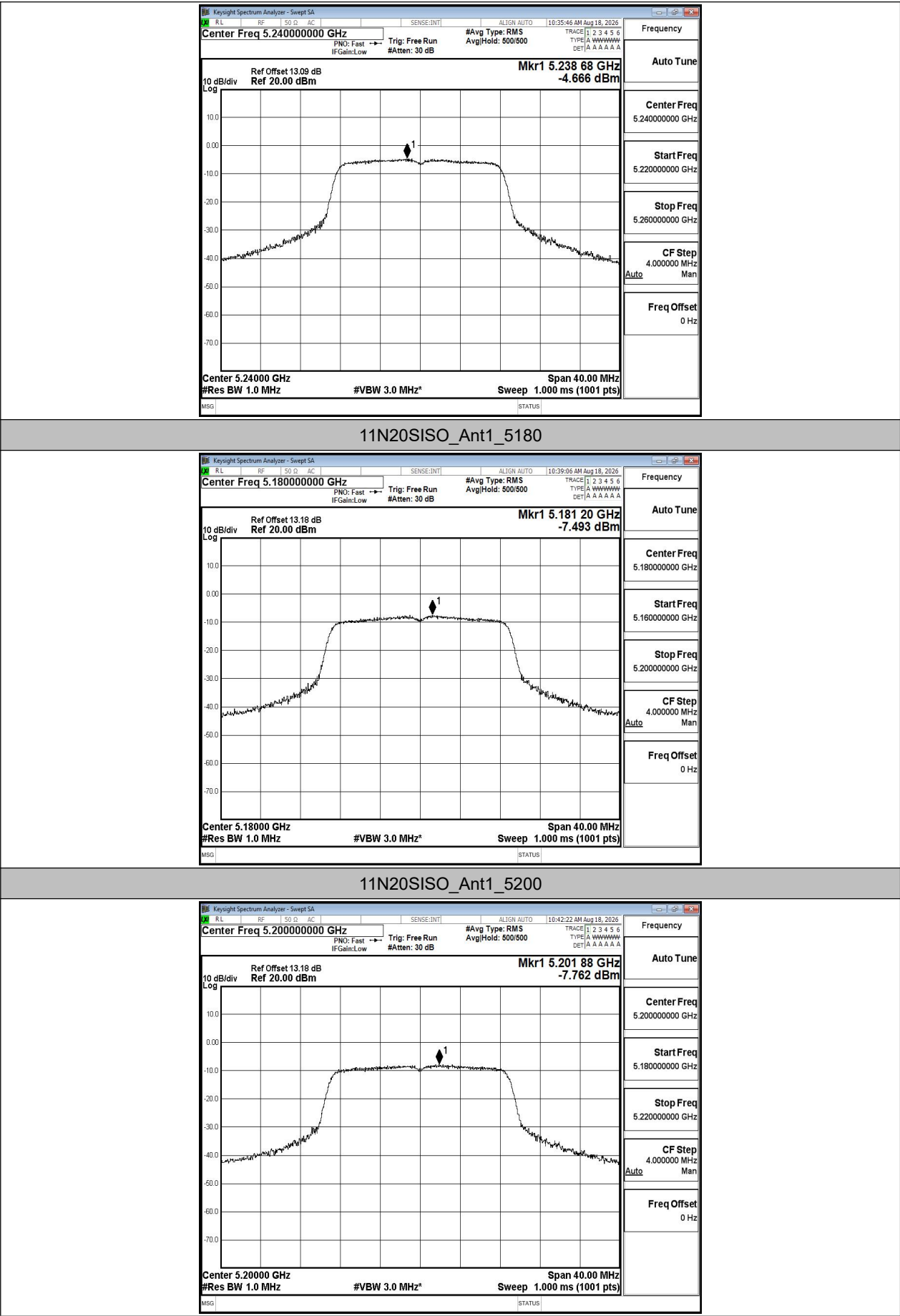
D.3 Maximum power spectral density

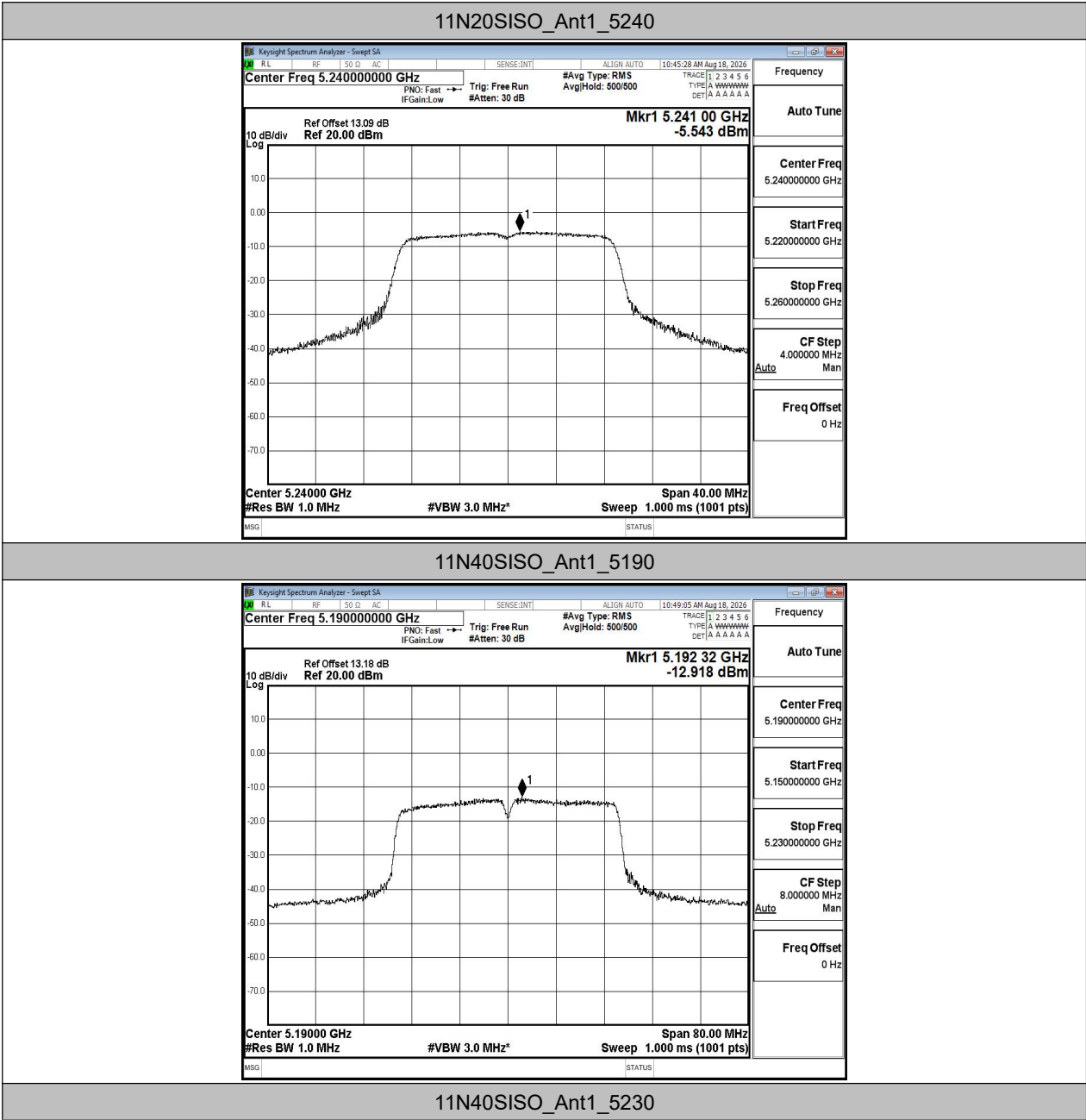
Test Result

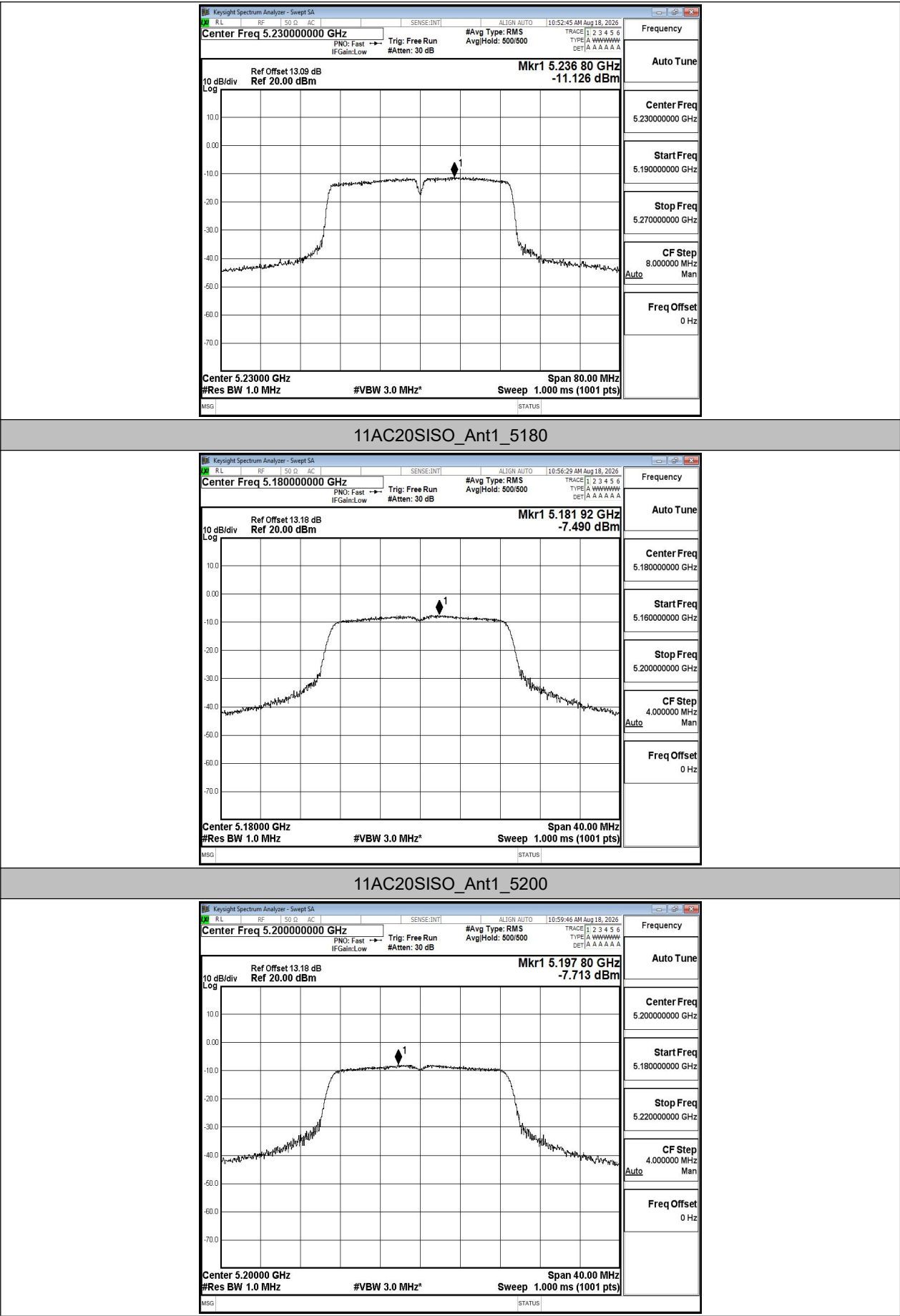
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	-5.24	7.71	2.47	≤11.00	PASS
		5200	-6.04	7.71	1.67	≤11.00	PASS
		5240	-4.67	7.76	3.09	≤11.00	PASS
11N20SISO	Ant1	5180	-7.49	7.97	0.48	≤11.00	PASS
		5200	-7.76	8	0.24	≤11.00	PASS
		5240	-5.54	7.99	2.45	≤11.00	PASS
11N40SISO	Ant1	5190	-12.92	10.76	-2.16	≤11.00	PASS
		5230	-11.13	10.71	-0.42	≤11.00	PASS
11AC20SISO	Ant1	5180	-7.49	7.95	0.46	≤11.00	PASS
		5200	-7.71	8	0.29	≤11.00	PASS
		5240	-6.34	7.98	1.64	≤11.00	PASS
11AC40SISO	Ant1	5190	-13.01	10.67	-2.34	≤11.00	PASS
		5230	-12.06	10.67	-1.39	≤11.00	PASS

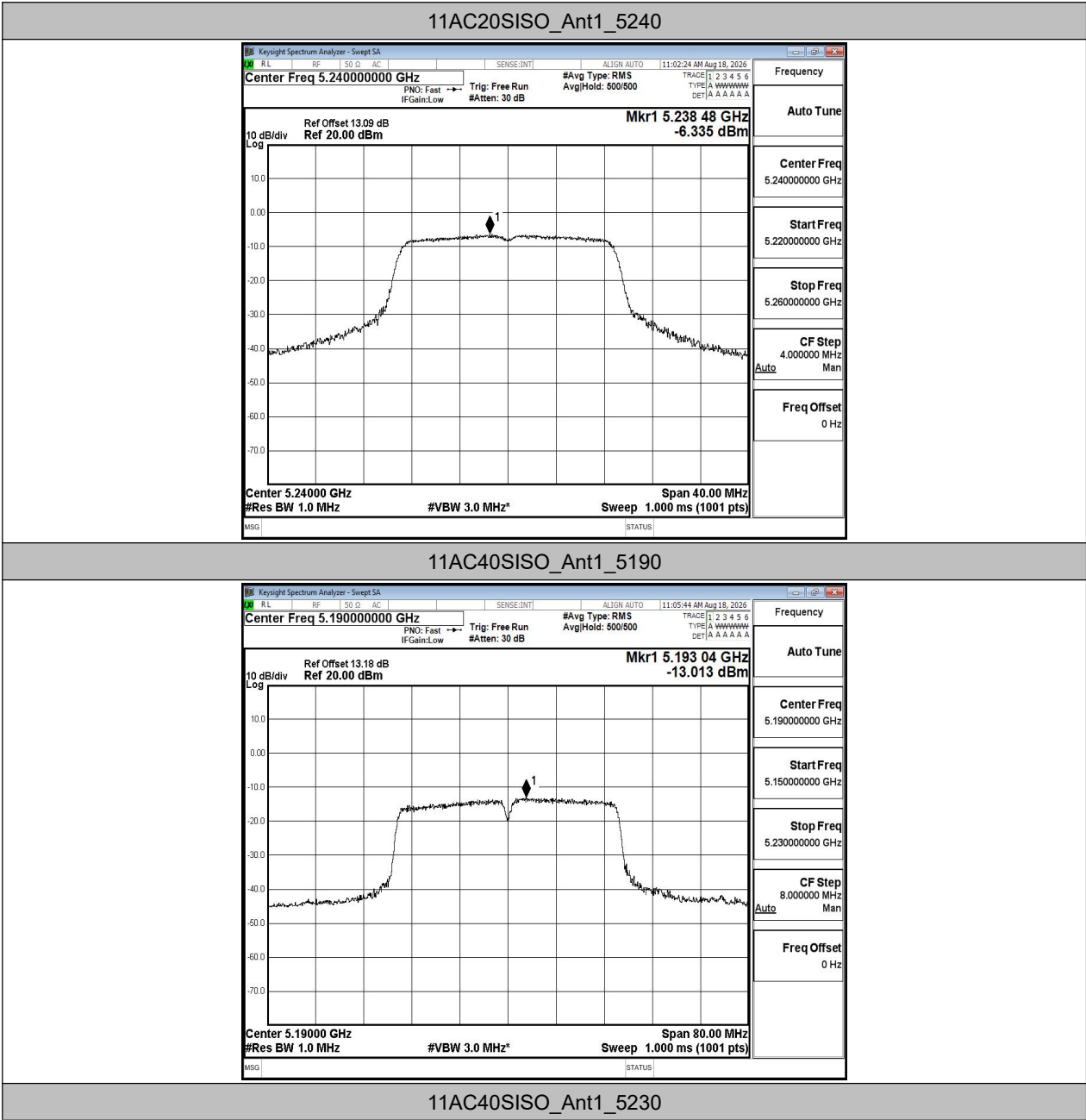
Test Graphs

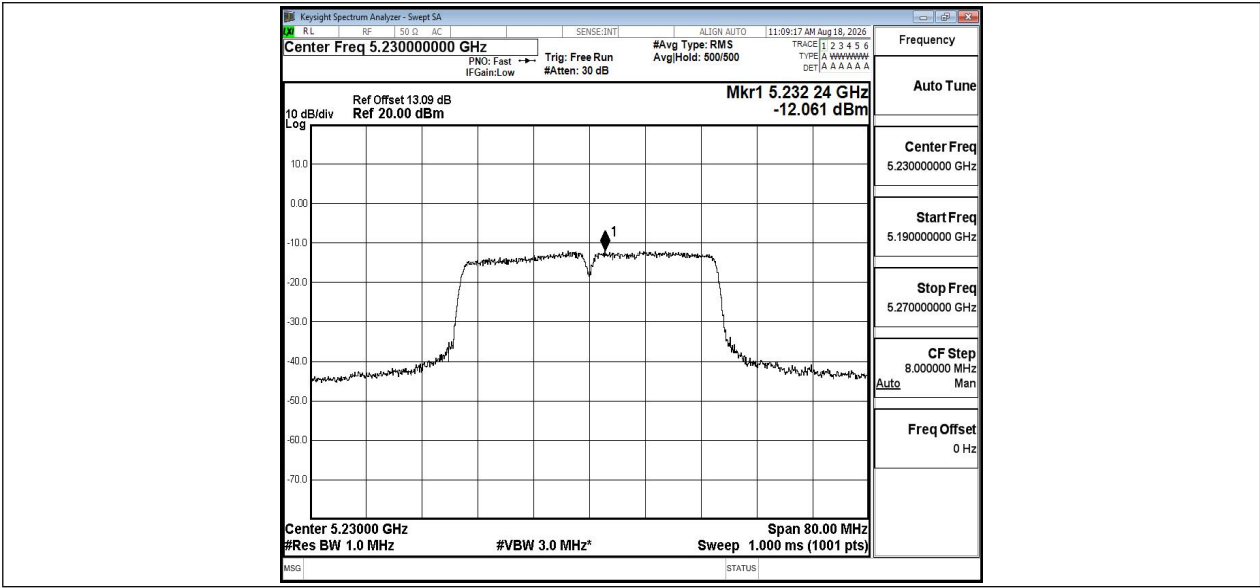












D.4 Emissions in Restricted Bands

Test Result

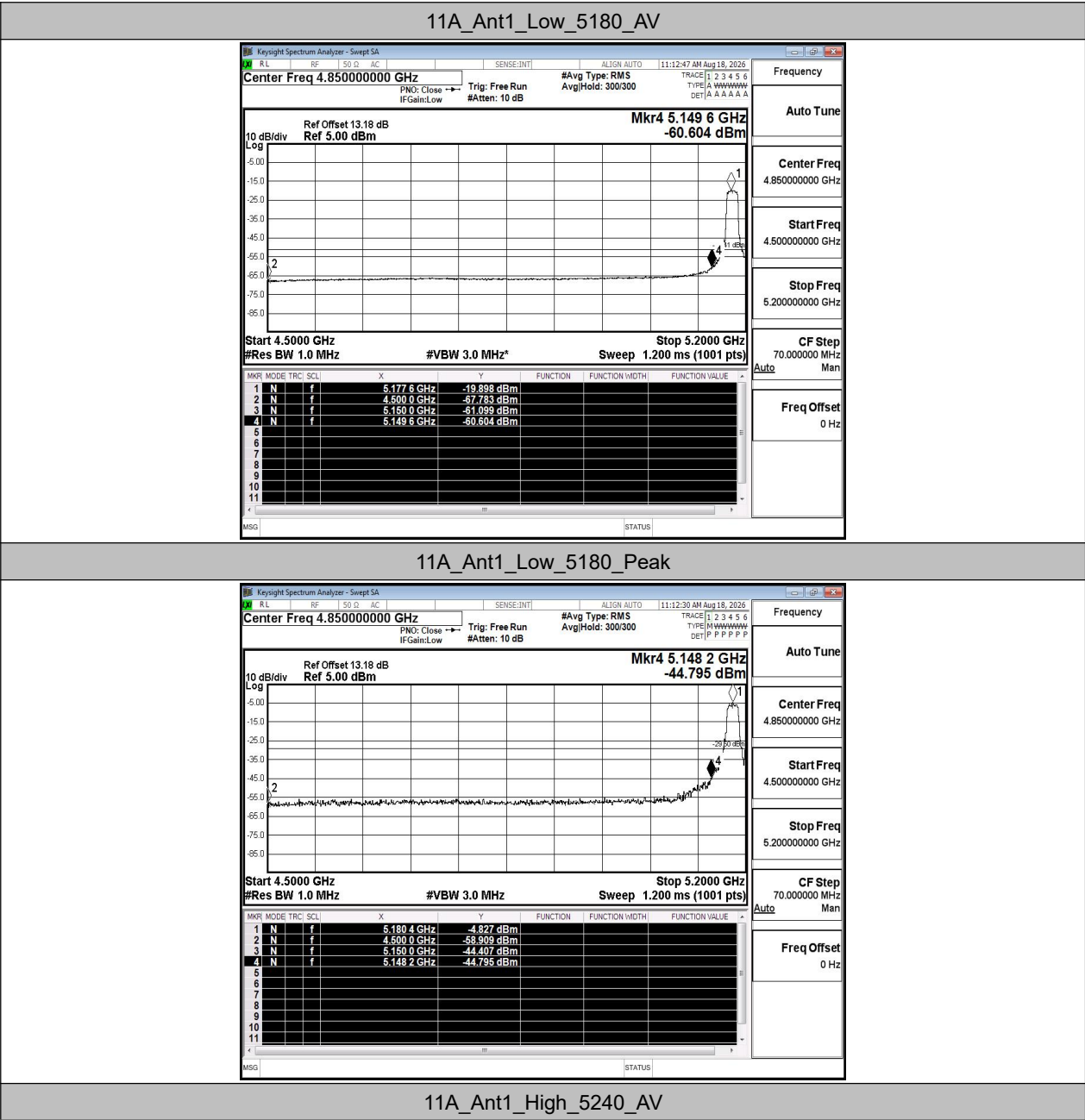
Test Mode	Antenna	Channel Name	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-67.78	≤-51.41	2.75	7.71	37.91	≤54	PASS
				AV	5149.600	-60.6	≤-51.41	2.75	7.71	45.09	≤54	PASS
				AV	5150.000	-61.1	≤-51.41	2.75	7.71	44.59	≤54	PASS
				Peak	4500.000	-58.91	≤-29.50	2.75	0	39.07	≤68.2	PASS
				Peak	5148.200	-44.79	≤-29.50	2.75	0	53.19	≤68.2	PASS
				Peak	5150.000	-44.41	≤-29.50	2.75	0	53.57	≤68.2	PASS
		High	5240	AV	5350.000	-61.14	≤-51.46	2.75	7.76	44.60	≤54	PASS
				AV	5358.960	-60.79	≤-51.46	2.75	7.76	44.95	≤54	PASS
				AV	5460.000	-61.61	≤-51.46	2.75	7.76	44.13	≤54	PASS
				Peak	5350.000	-50.98	≤-29.50	2.75	0	47.00	≤68.2	PASS
				Peak	5405.040	-49.3	≤-29.50	2.75	0	48.68	≤68.2	PASS
				Peak	5460.000	-53.08	≤-29.50	2.75	0	44.90	≤68.2	PASS
11N2 OSISO	Ant1	Low	5180	AV	4500.000	-68.07	≤-51.67	2.75	7.97	37.88	≤54	PASS
				AV	5149.600	-60.19	≤-51.67	2.75	7.97	45.76	≤54	PASS
				AV	5150.000	-61.47	≤-51.67	2.75	7.97	44.48	≤54	PASS
				Peak	4500.000	-59.73	≤-29.50	2.75	0	38.25	≤68.2	PASS
				Peak	5149.600	-40.73	≤-29.50	2.75	0	57.25	≤68.2	PASS
				Peak	5150.000	-43.91	≤-29.50	2.75	0	54.07	≤68.2	PASS
		High	5240	AV	5350.000	-61.32	≤-51.69	2.75	7.99	44.65	≤54	PASS
				AV	5354.160	-60.94	≤-51.69	2.75	7.99	45.03	≤54	PASS
				AV	5460.000	-61.88	≤-51.69	2.75	7.99	44.09	≤54	PASS
				Peak	5350.000	-52.62	≤-29.50	2.75	0	45.36	≤68.2	PASS
				Peak	5352.720	-49.14	≤-29.50	2.75	0	48.84	≤68.2	PASS
				Peak	5460.000	-52.67	≤-29.50	2.75	0	45.31	≤68.2	PASS
11N4 OSISO	Ant1	Low	5190	AV	4500.000	-67.93	≤-54.46	2.75	10.76	40.81	≤54	PASS
				AV	5149.600	-58.7	≤-54.46	2.75	10.76	50.04	≤54	PASS
				AV	5150.000	-59.05	≤-54.46	2.75	10.76	49.69	≤54	PASS
				Peak	4500.000	-57.97	≤-29.50	2.75	0	40.01	≤68.2	PASS
				Peak	5146.100	-37.45	≤-29.50	2.75	0	60.53	≤68.2	PASS
				Peak	5150.000	-40.64	≤-29.50	2.75	0	57.34	≤68.2	PASS
		High	5230	AV	5350.000	-60.73	≤-54.41	2.75	10.71	47.96	≤54	PASS
				AV	5353.920	-60.44	≤-54.41	2.75	10.71	48.25	≤54	PASS
				AV	5460.000	-61.55	≤-54.41	2.75	10.71	47.14	≤54	PASS
				Peak	5350.000	-45.35	≤-29.50	2.75	0	52.63	≤68.2	PASS
				Peak	5431.660	-42.74	≤-29.50	2.75	0	55.24	≤68.2	PASS
				Peak	5460.000	-51.92	≤-29.50	2.75	0	46.06	≤68.2	PASS

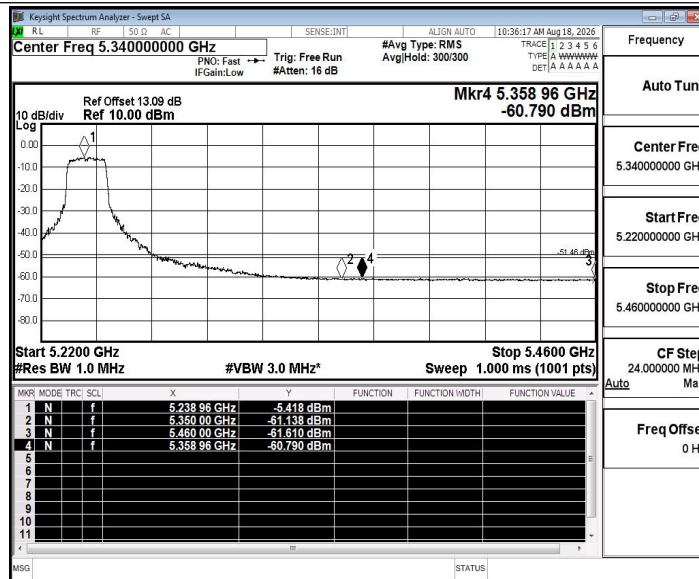
11AC 20SI SO	Ant1	Low	5180	AV	4500.000	-68.13	≤-51.65	2.75	7.95	37.80	≤54	PASS
				AV	5147.500	-60.91	≤-51.65	2.75	7.95	45.02	≤54	PASS
				AV	5150.000	-61.25	≤-51.65	2.75	7.95	44.68	≤54	PASS
				Peak	4500.000	-58.37	≤-29.50	2.75	0	39.61	≤68.2	PASS
				Peak	5149.600	-42.56	≤-29.50	2.75	0	55.42	≤68.2	PASS
				Peak	5150.000	-44.76	≤-29.50	2.75	0	53.22	≤68.2	PASS
		High	5240	AV	5350.000	-61.26	≤-51.68	2.75	7.98	44.70	≤54	PASS
				AV	5358.000	-60.94	≤-51.68	2.75	7.98	45.02	≤54	PASS
				AV	5460.000	-61.59	≤-51.68	2.75	7.98	44.37	≤54	PASS
				Peak	5350.000	-52.04	≤-29.50	2.75	0	45.94	≤68.2	PASS
				Peak	5380.800	-49.07	≤-29.50	2.75	0	48.91	≤68.2	PASS
				Peak	5460.000	-53.18	≤-29.50	2.75	0	44.80	≤68.2	PASS
11AC 40SI SO	Ant1	Low	5190	AV	4500.000	-67.95	≤-54.37	2.75	10.67	40.70	≤54	PASS
				AV	5146.800	-59.9	≤-54.37	2.75	10.67	48.75	≤54	PASS
				AV	5150.000	-59.97	≤-54.37	2.75	10.67	48.68	≤54	PASS
				Peak	4500.000	-58.87	≤-29.50	2.75	0	39.11	≤68.2	PASS
				Peak	5141.900	-38.73	≤-29.50	2.75	0	59.25	≤68.2	PASS
				Peak	5150.000	-33.45	≤-29.50	2.75	0	64.53	≤68.2	PASS
		High	5230	AV	5350.000	-60.66	≤-54.37	2.75	10.67	47.99	≤54	PASS
				AV	5352.100	-60.44	≤-54.37	2.75	10.67	48.21	≤54	PASS
				AV	5460.000	-61.66	≤-54.37	2.75	10.67	46.99	≤54	PASS
				Peak	5350.000	-45.58	≤-29.50	2.75	0	52.40	≤68.2	PASS
				Peak	5364.320	-43.12	≤-29.50	2.75	0	54.86	≤68.2	PASS
				Peak	5460.000	-52.32	≤-29.50	2.75	0	45.66	≤68.2	PASS

Note:

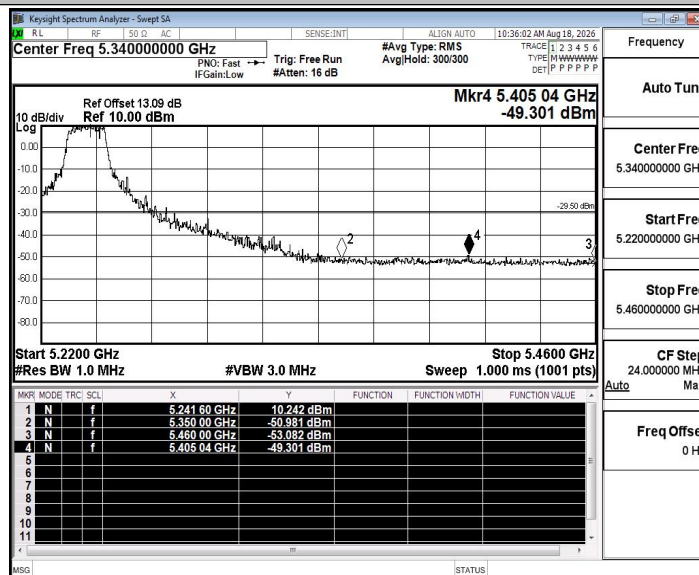
1. The Antenna Gain is compensated in the graph.

Test Graphs

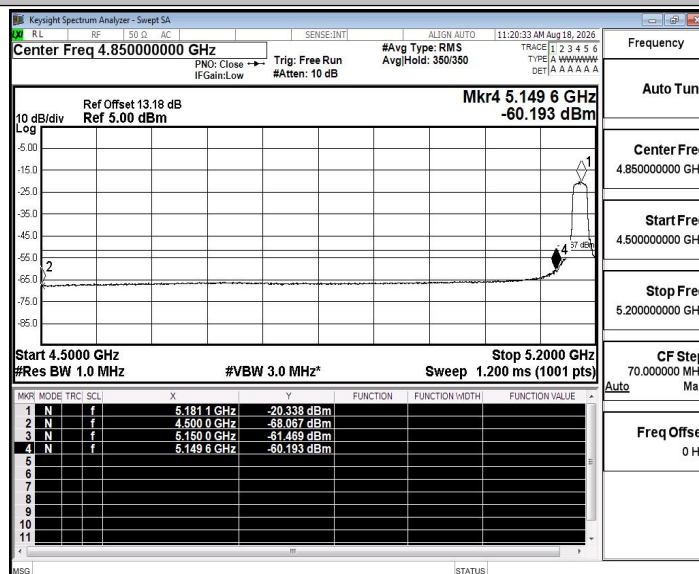




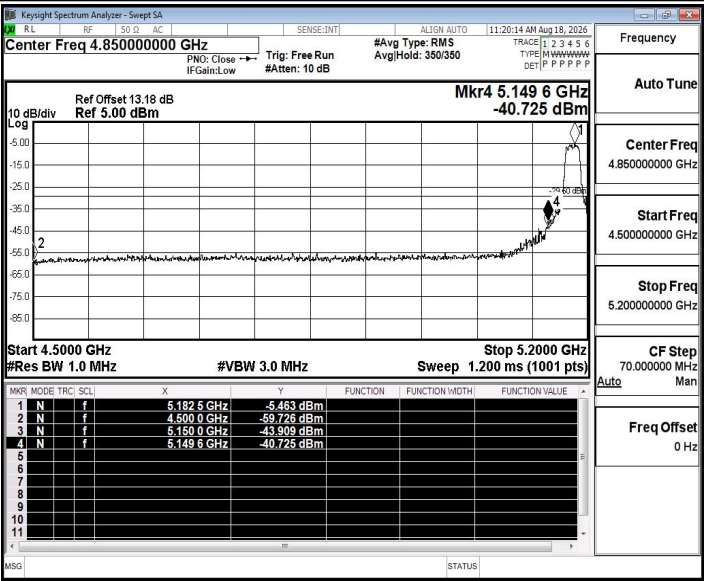
11A_Ant1_High_5240_Peak



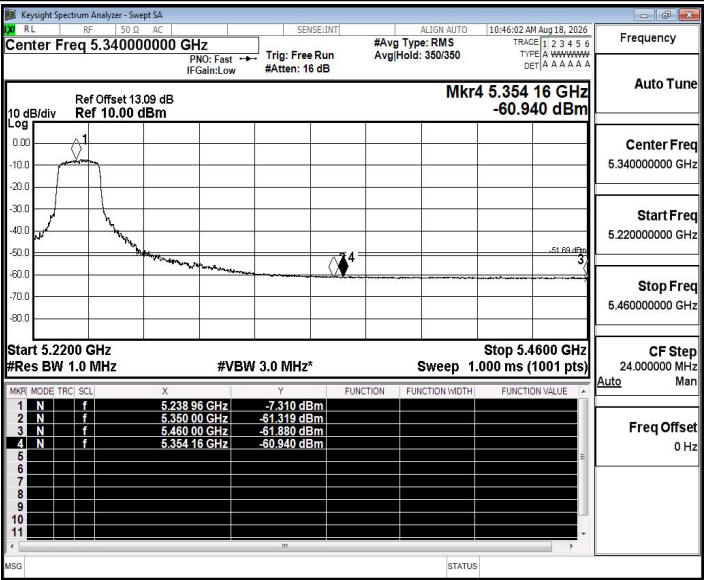
11N20SISO_Ant1_Low_5180_AV



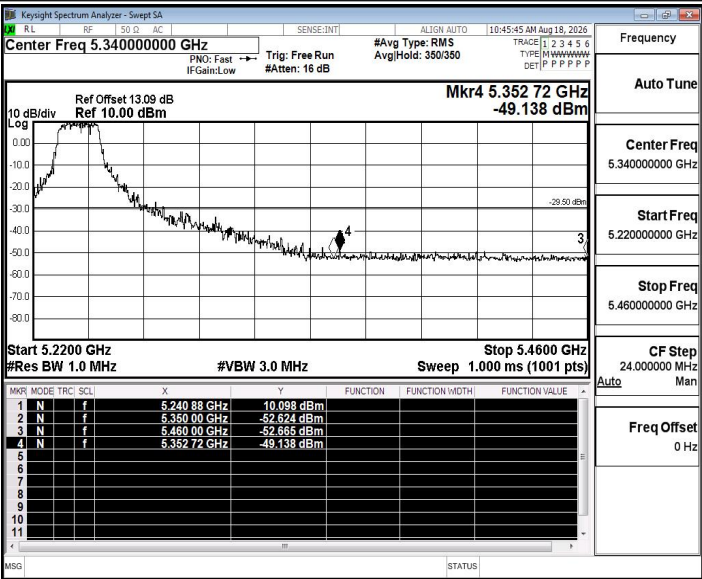
11N20SISO_Ant1_Low_5180_Peak



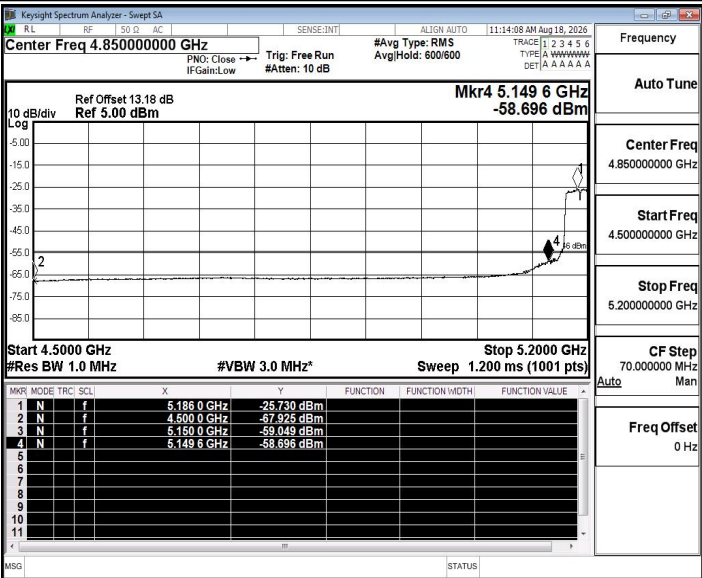
11N20SISO_Ant1_High_5240_AV



11N20SISO_Ant1_High_5240_Peak



11N40SISO_Ant1_Low_5190_AV



11N40SISO_Ant1_Low_5190_Peak

