

Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Android Head Unit with Floating Screen

Test Model: RVHU-130-ADF

Environmental Conditions

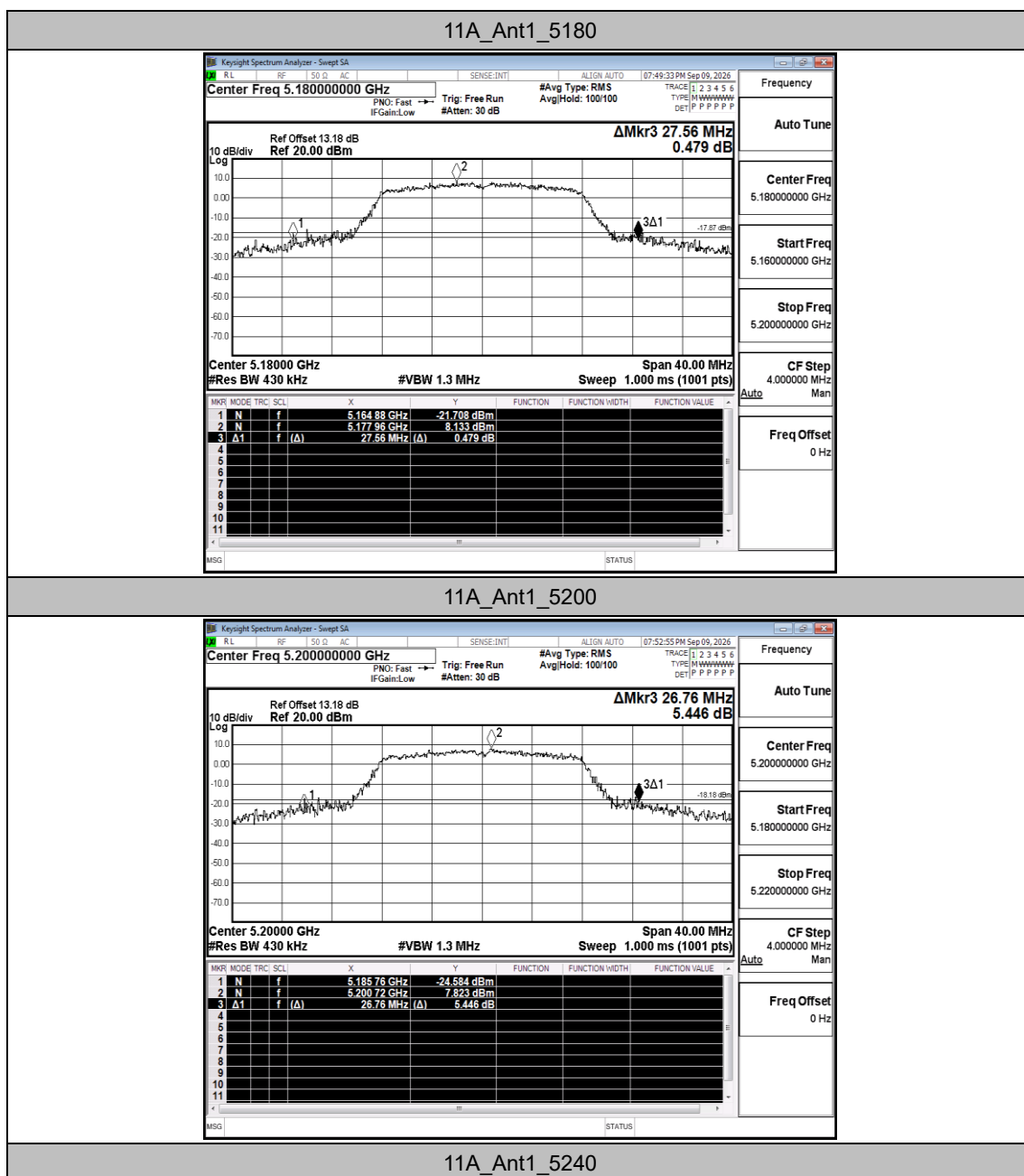
Temperature:	26.3°C
Relative Humidity:	54.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

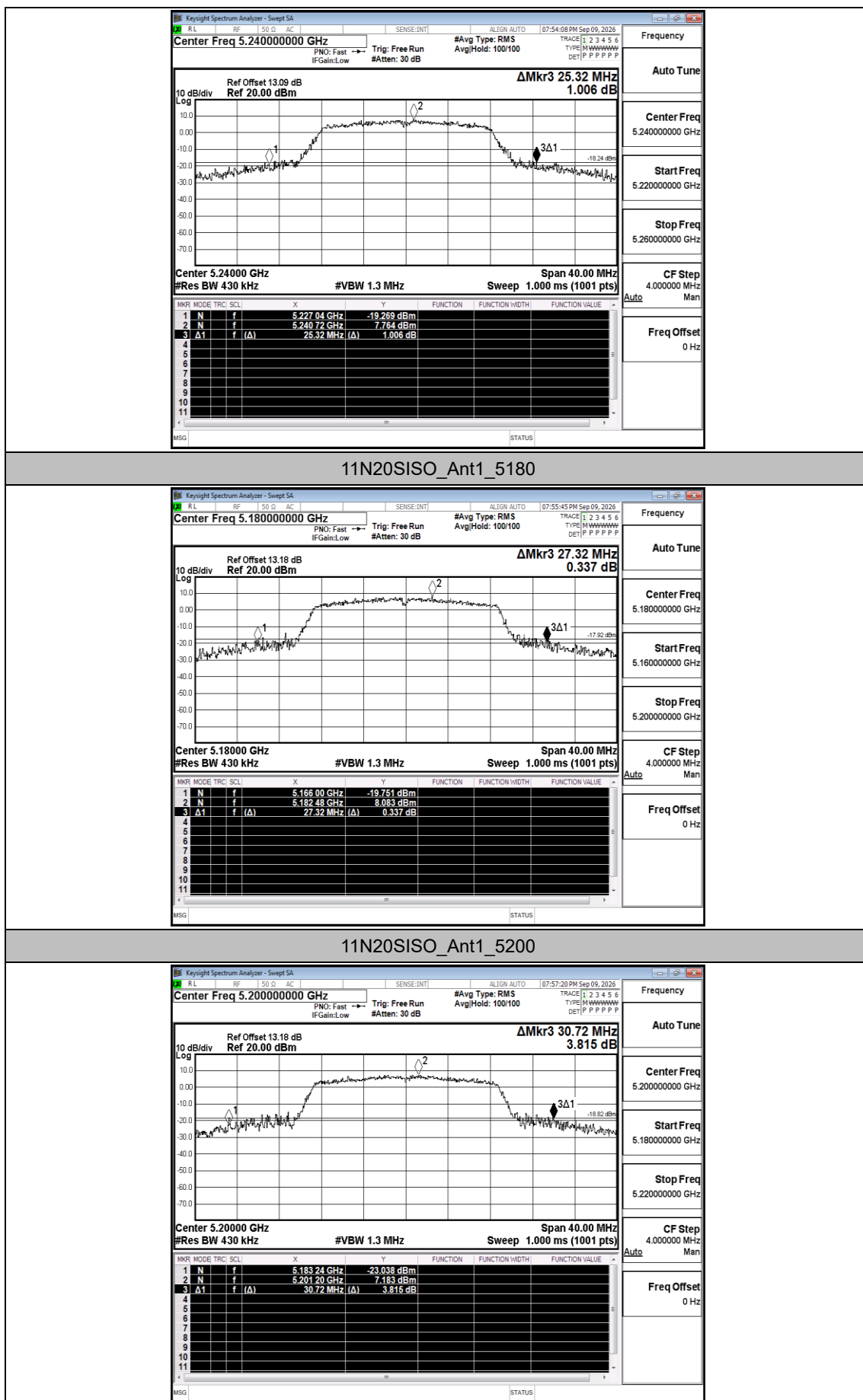
D.1 Emission Bandwidth

Test Result

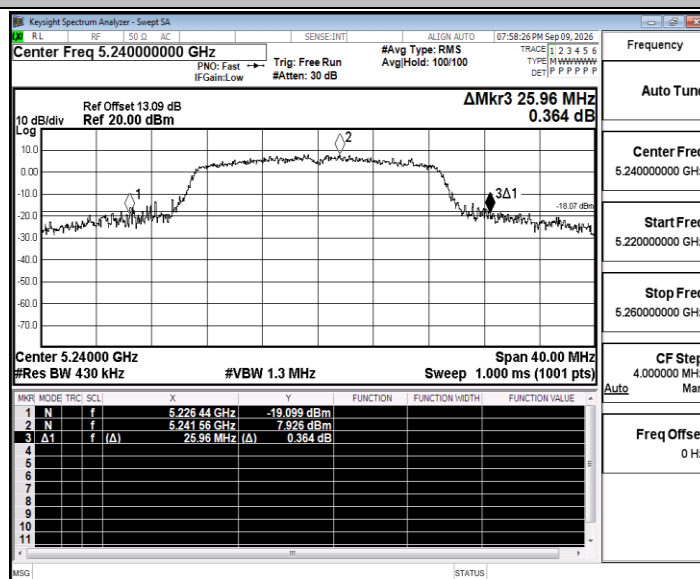
TestMode	Antenna	Freq (MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	27.560	5164.880	5192.440	---	---
		5200	26.760	5185.760	5212.520	---	---
		5240	25.320	5227.040	5252.360	---	---
11N20SISO	Ant1	5180	27.320	5166.000	5193.320	---	---
		5200	30.720	5183.240	5213.960	---	---
		5240	25.960	5226.440	5252.400	---	---
11N40SISO	Ant1	5190	67.760	5156.160	5223.920	---	---
		5230	68.160	5196.000	5264.160	---	---
11AC20SISO	Ant1	5180	24.760	5168.120	5192.880	---	---
		5200	23.240	5188.480	5211.720	---	---
		5240	22.160	5229.520	5251.680	---	---
11AC40SISO	Ant1	5190	47.200	5167.920	5215.120	---	---
		5230	41.360	5209.360	5250.720	---	---
11AC80SISO	Ant1	5210	96.640	5159.120	5255.760	---	---

Test Graphs

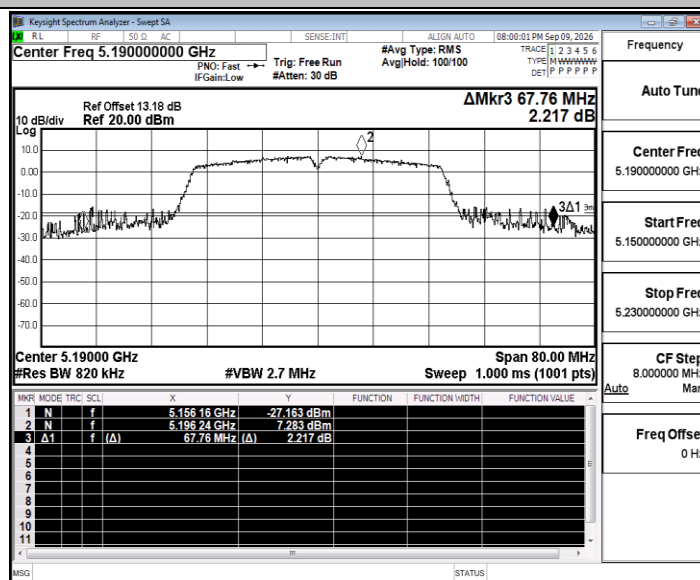




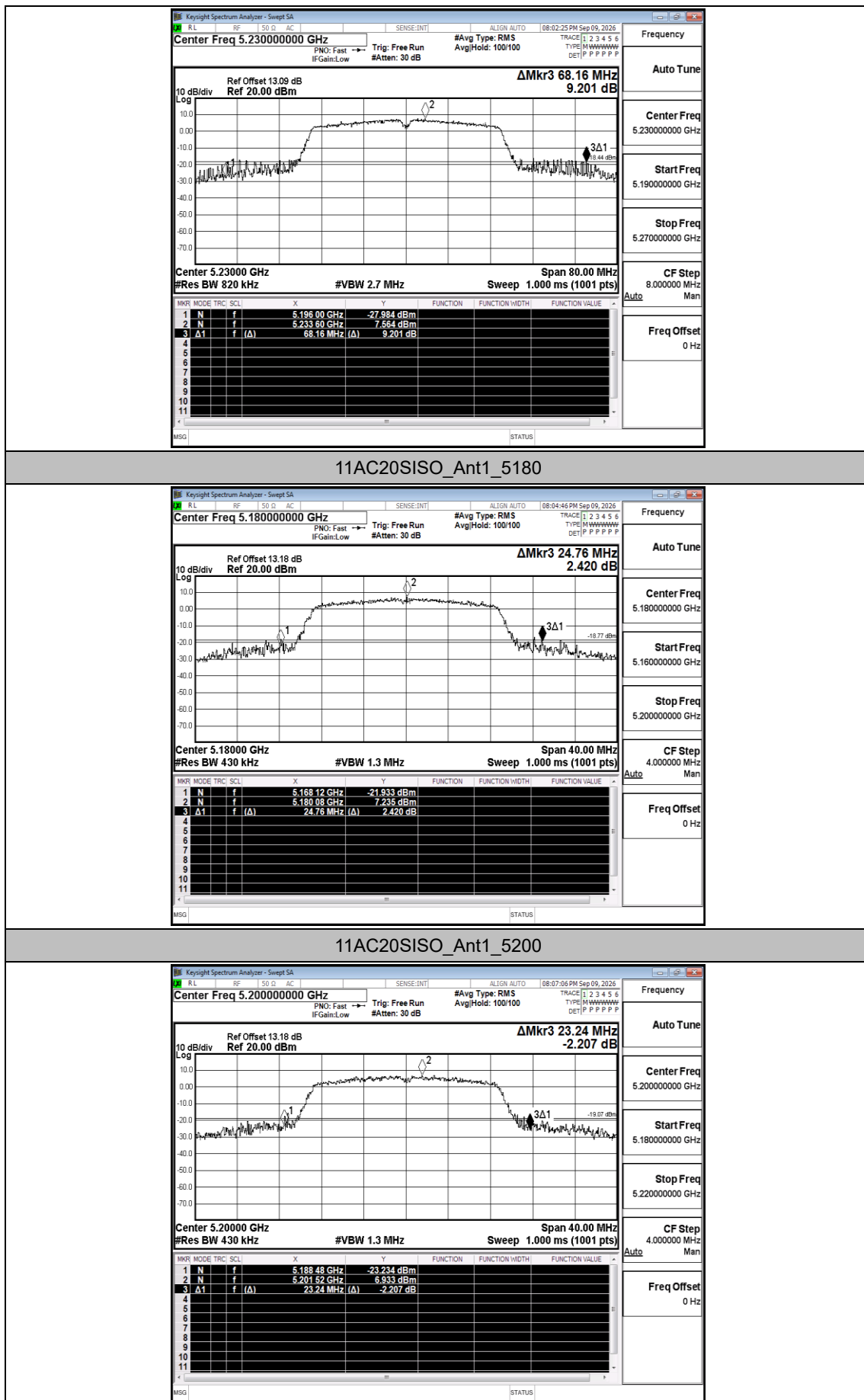
11N20SISO_Ant1_5240



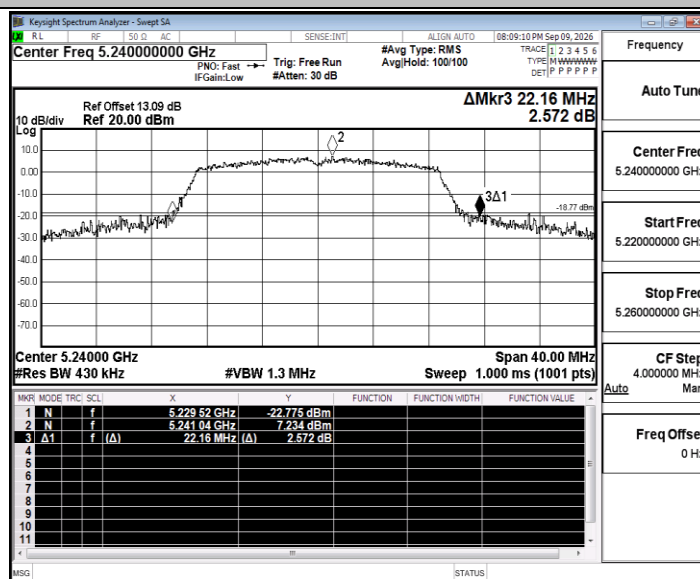
11N40SISO_Ant1_5190



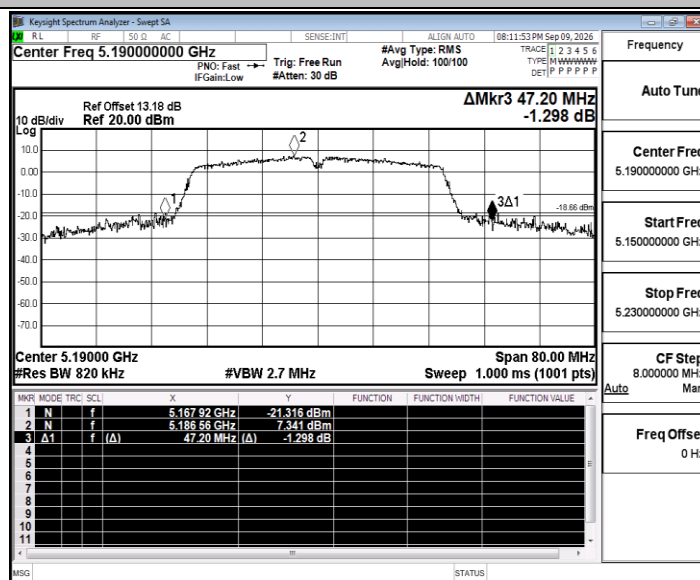
11N40SISO_Ant1_5230



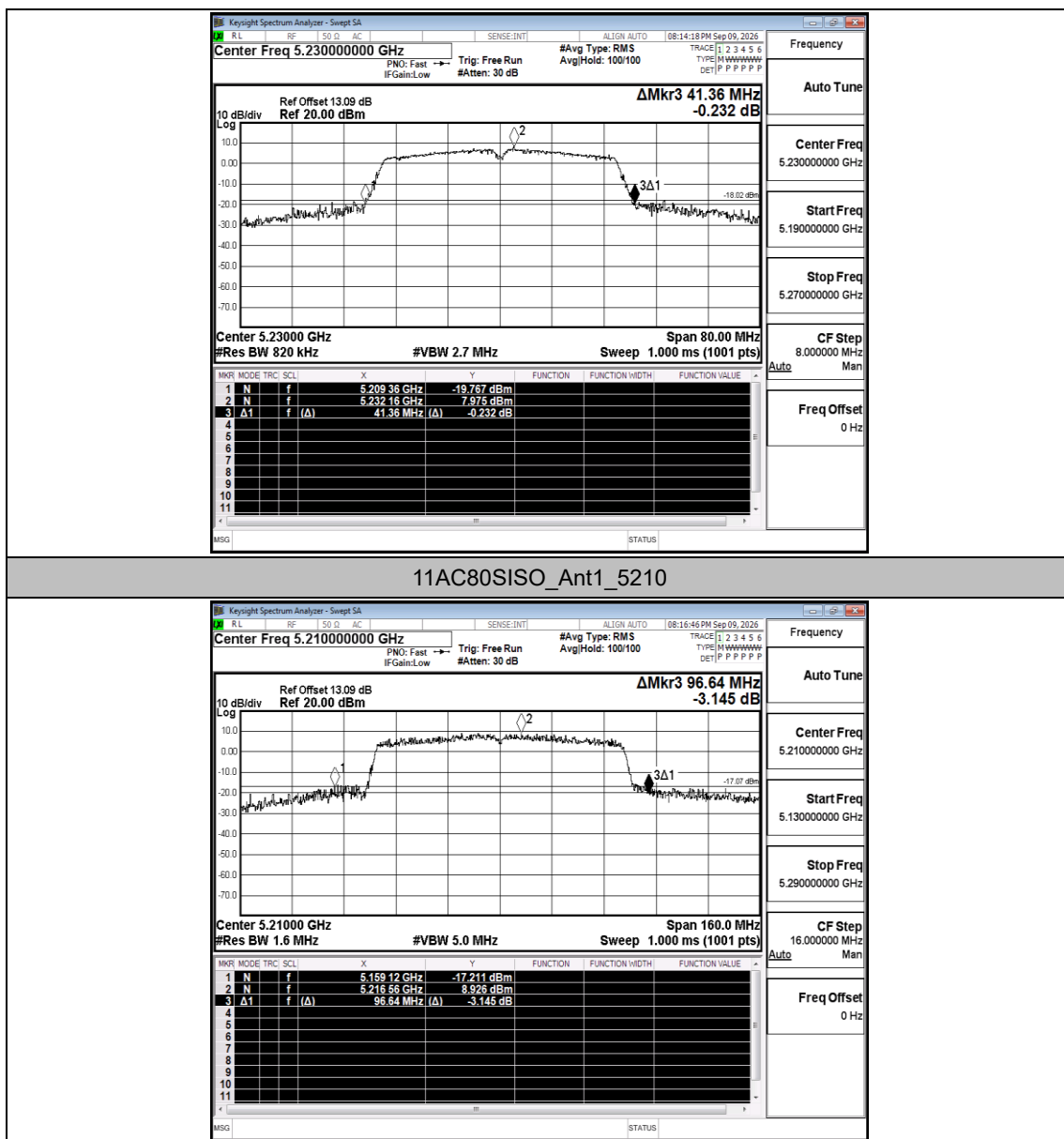
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



D.2 Maximum conducted output power

Test Result

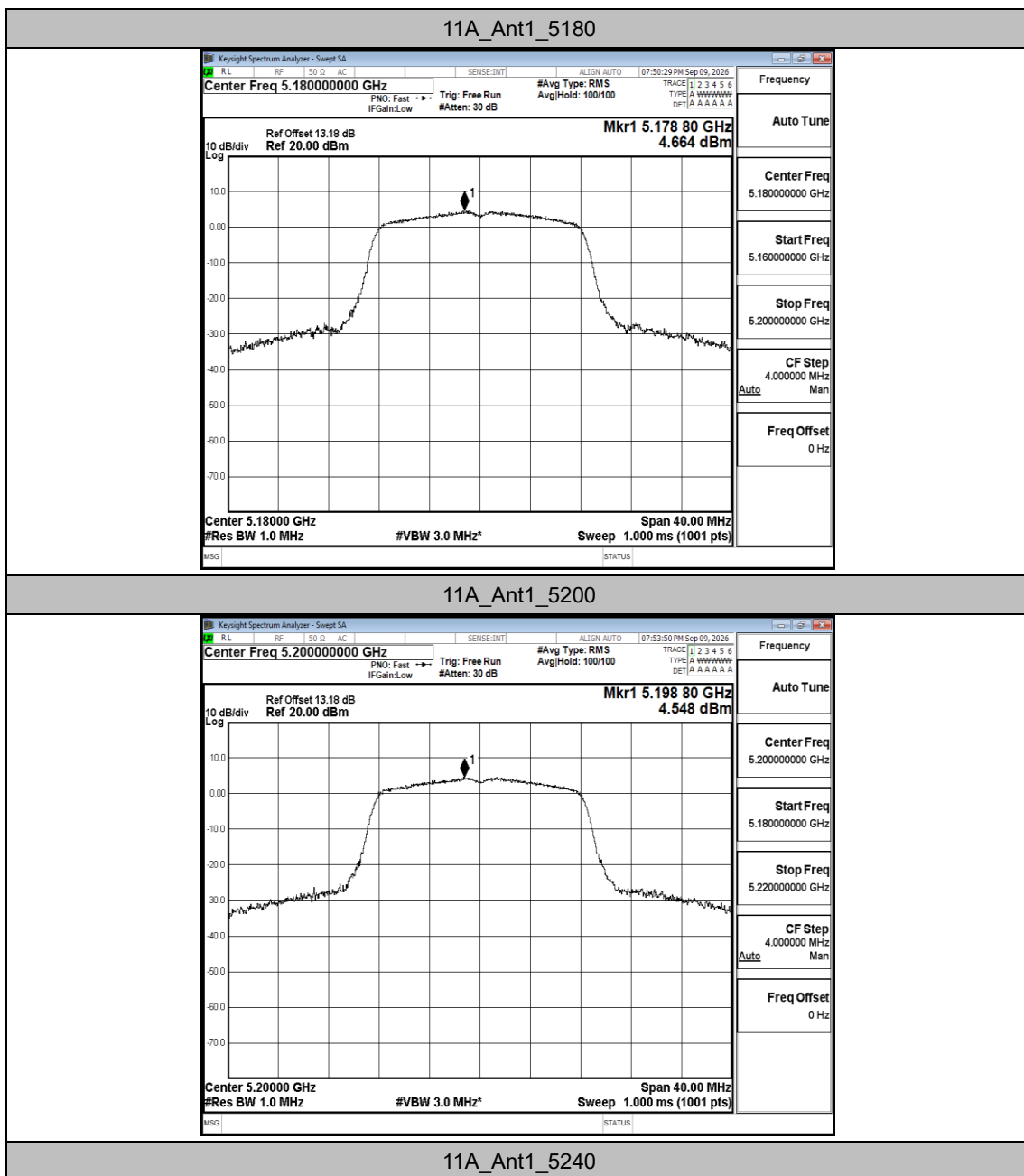
Test Mode	Antenna	Freq (MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	NA	15.96	0.15	16.11	≤23.98	PASS
		5200	NA	15.92	0.15	16.07	≤23.98	PASS
		5240	NA	15.68	0.15	15.83	≤23.98	PASS
11N20SISO	Ant1	5180	NA	15.74	0.17	15.91	≤23.98	PASS
		5200	NA	15.73	0.16	15.89	≤23.98	PASS
		5240	NA	15.62	0.13	15.75	≤23.98	PASS
11N40SISO	Ant1	5190	NA	15.05	0.32	15.37	≤23.98	PASS
		5230	NA	14.98	0.26	15.24	≤23.98	PASS
11AC20SISO	Ant1	5180	NA	15.36	0.13	15.49	≤23.98	PASS
		5200	NA	15.20	0.13	15.33	≤23.98	PASS
		5240	NA	15.29	0.13	15.42	≤23.98	PASS
11AC40SISO	Ant1	5190	NA	15.01	0.26	15.27	≤23.98	PASS
		5230	NA	14.89	0.26	15.15	≤23.98	PASS
11AC80SISO	Ant1	5210	NA	14.94	0.63	15.57	≤23.98	PASS

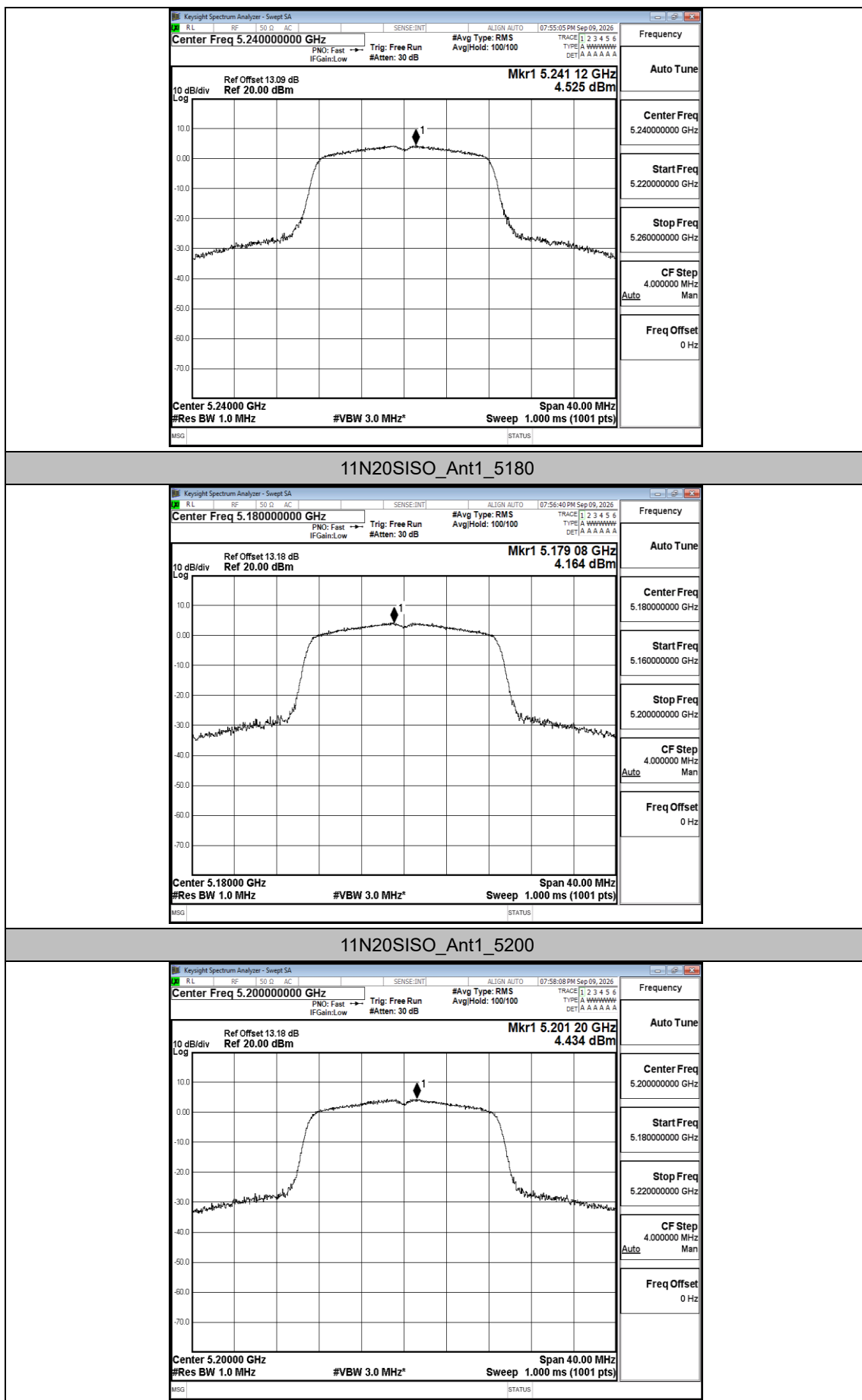
D.3 Maximum power spectral density

Test Result

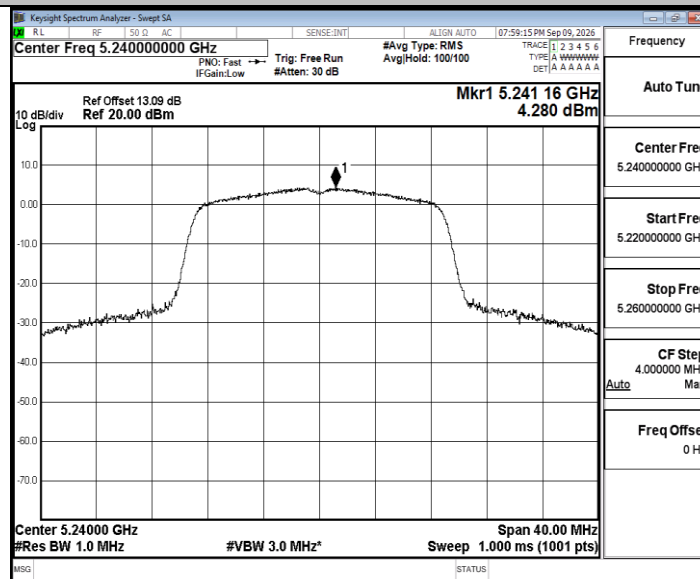
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	4.66	0.15	4.81	≤11.00	PASS
		5200	4.55	0.15	4.70	≤11.00	PASS
		5240	4.53	0.15	4.68	≤11.00	PASS
11N20SISO	Ant1	5180	4.16	0.17	4.33	≤11.00	PASS
		5200	4.43	0.16	4.59	≤11.00	PASS
		5240	4.28	0.13	4.41	≤11.00	PASS
11N40SISO	Ant1	5190	0.97	0.32	1.29	≤11.00	PASS
		5230	0.96	0.26	1.22	≤11.00	PASS
11AC20SISO	Ant1	5180	3.76	0.13	3.89	≤11.00	PASS
		5200	3.46	0.13	3.59	≤11.00	PASS
		5240	3.66	0.13	3.79	≤11.00	PASS
11AC40SISO	Ant1	5190	0.47	0.26	0.73	≤11.00	PASS
		5230	0.76	0.26	1.02	≤11.00	PASS
11AC80SISO	Ant1	5210	-2.48	0.63	-1.85	≤11.00	PASS

Test Graphs

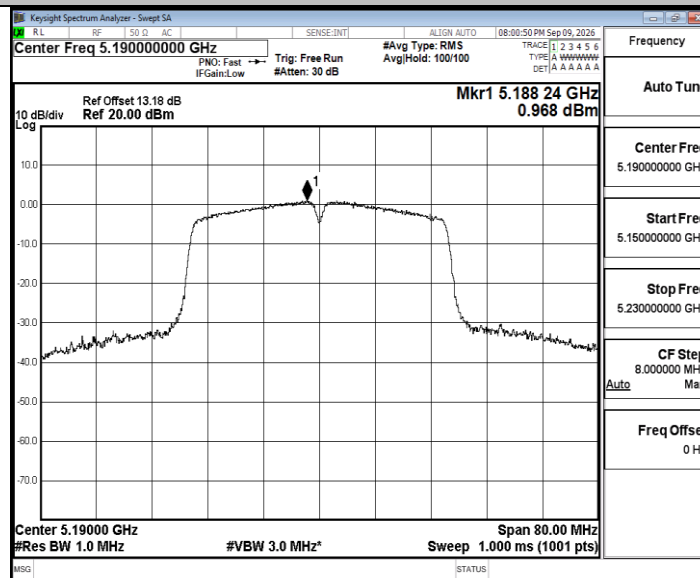




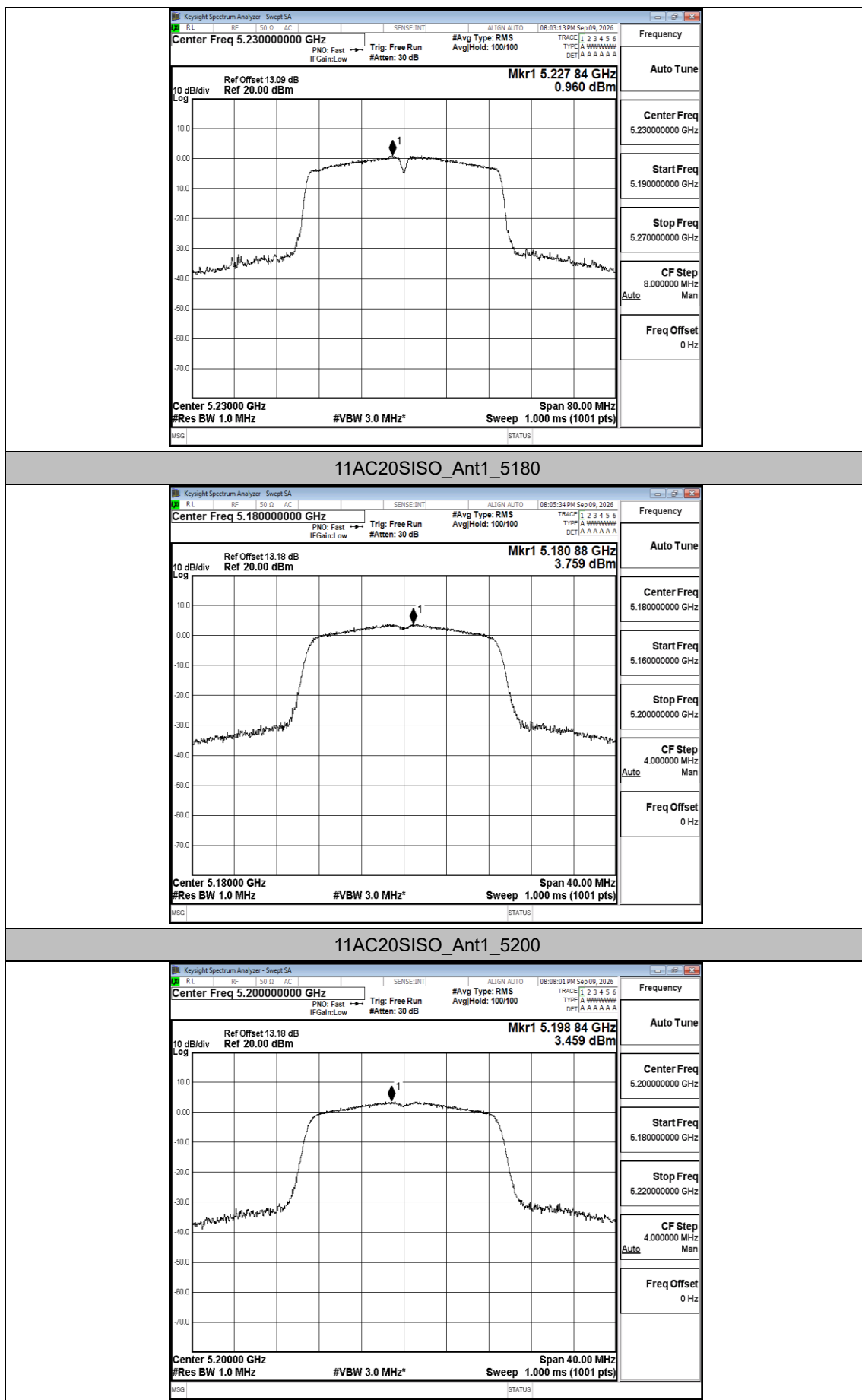
11N20SISO_Ant1_5240



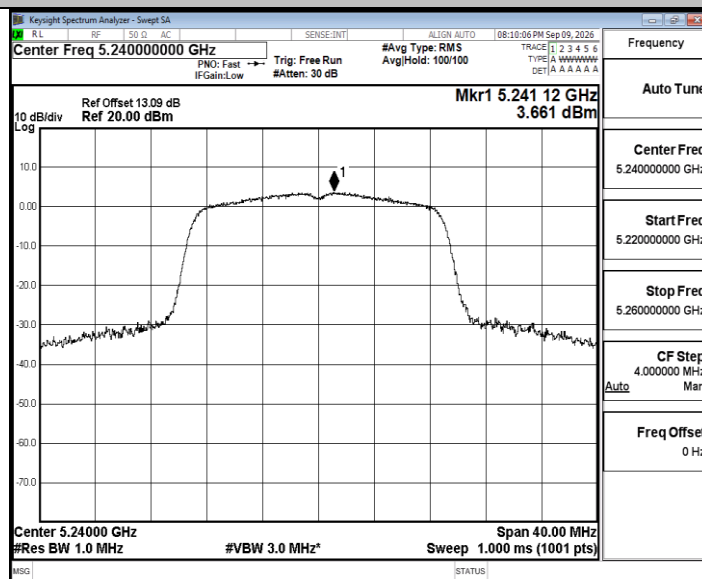
11N40SISO_Ant1_5190



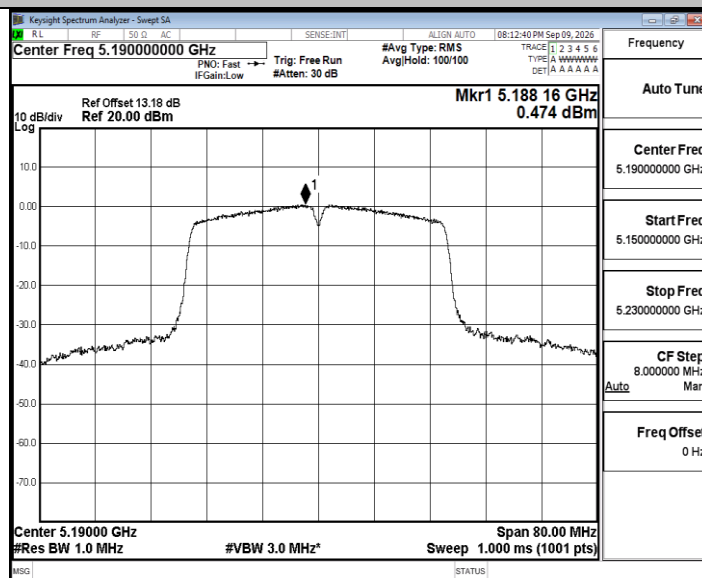
11N40SISO_Ant1_5230



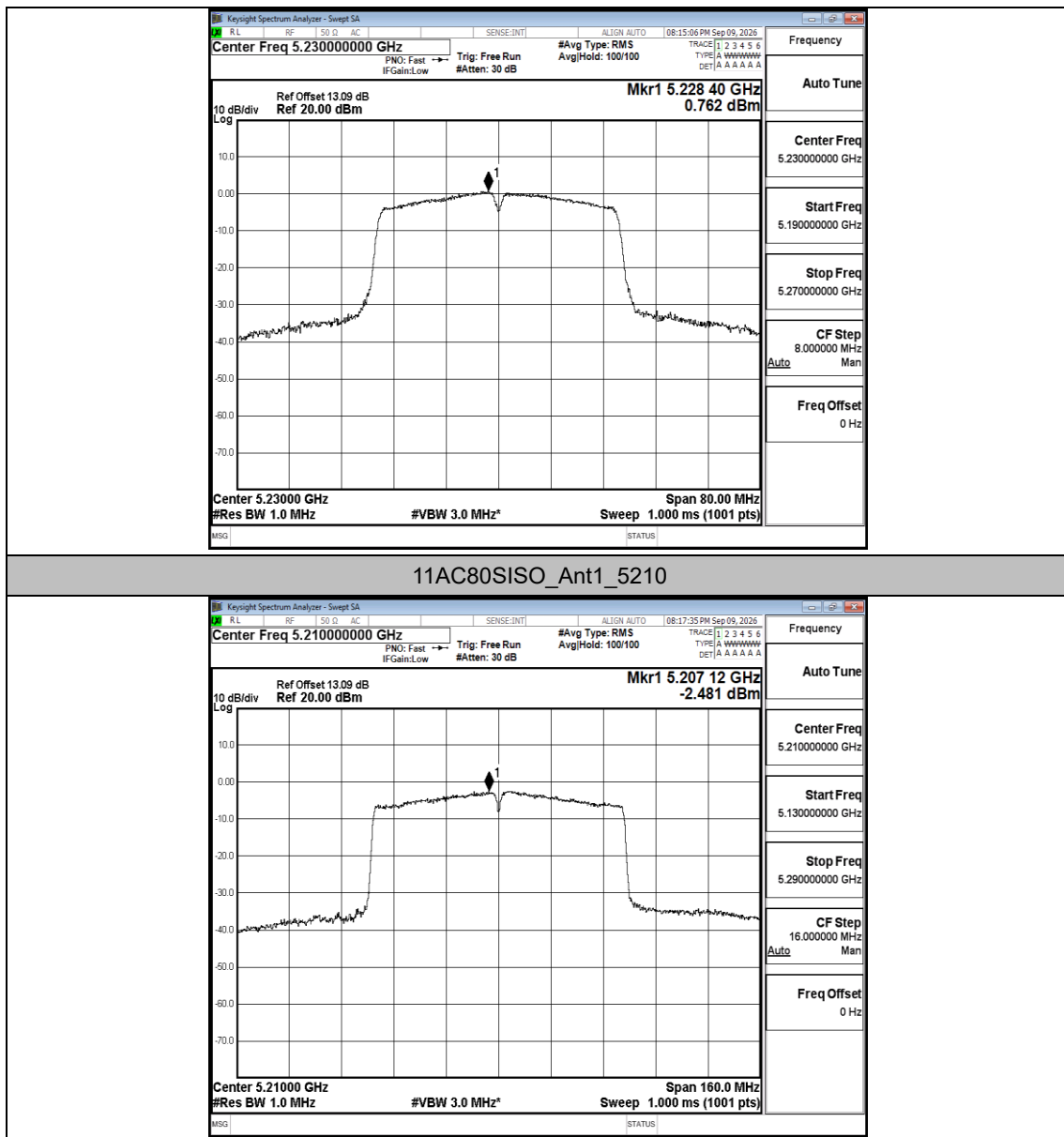
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



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	-68.54	≤-44.30	3.80	0.15	30.64	≤54	PASS
				AV	5149.600	-58.47	≤-44.30	3.80	0.15	40.71	≤54	PASS
				AV	5150.000	-58.49	≤-44.30	3.80	0.15	40.69	≤54	PASS
				Peak	4500.000	-59.7	≤-29.95	3.80	0.00	39.33	≤68.2	PASS
				Peak	5145.400	-48.09	≤-29.95	3.80	0.00	50.94	≤68.2	PASS
				Peak	5150.000	-49.52	≤-29.95	3.80	0.00	49.51	≤68.2	PASS
		High	5240	AV	5350.000	-56.4	≤-44.30	3.80	0.15	42.78	≤54	PASS
				AV	5352.480	-56.24	≤-44.30	3.80	0.15	42.94	≤54	PASS
				AV	5460.000	-60.14	≤-44.30	3.80	0.15	39.04	≤54	PASS
				Peak	5350.000	-48.13	≤-29.95	3.80	0.00	50.9	≤68.2	PASS
				Peak	5355.600	-45.87	≤-29.95	3.80	0.00	53.16	≤68.2	PASS
				Peak	5460.000	-49.02	≤-29.95	3.80	0.00	50.01	≤68.2	PASS
11N20SISO	Ant1	Low	5180	AV	4500.000	-67.81	≤-44.32	3.80	0.17	31.39	≤54	PASS
				AV	5149.600	-58.57	≤-44.32	3.80	0.17	40.63	≤54	PASS
				AV	5150.000	-58.36	≤-44.32	3.80	0.17	40.84	≤54	PASS
				Peak	4500.000	-58.89	≤-29.95	3.80	0.00	40.14	≤68.2	PASS
				Peak	5147.500	-48.71	≤-29.95	3.80	0.00	50.32	≤68.2	PASS
				Peak	5150.000	-50.2	≤-29.95	3.80	0.00	48.83	≤68.2	PASS
		High	5240	AV	5350.000	-56.16	≤-44.28	3.80	0.13	43	≤54	PASS
				AV	5355.120	-55.93	≤-44.28	3.80	0.13	43.23	≤54	PASS
				AV	5460.000	-60.24	≤-44.28	3.80	0.13	38.92	≤54	PASS
				Peak	5350.000	-48.37	≤-29.95	3.80	0.00	50.66	≤68.2	PASS
				Peak	5353.680	-46.19	≤-29.95	3.80	0.00	52.84	≤68.2	PASS
				Peak	5460.000	-52.66	≤-29.95	3.80	0.00	46.37	≤68.2	PASS
11N40SISO	Ant1	Low	5190	AV	4500.000	-67.79	≤-44.47	3.80	0.32	31.56	≤54	PASS
				AV	5149.600	-56.62	≤-44.47	3.80	0.32	42.73	≤54	PASS
				AV	5150.000	-57.25	≤-44.47	3.80	0.32	42.1	≤54	PASS
				Peak	4500.000	-61.02	≤-29.95	3.80	0.00	38.01	≤68.2	PASS
				Peak	5148.200	-44.71	≤-29.95	3.80	0.00	54.32	≤68.2	PASS
				Peak	5150.000	-49.37	≤-29.95	3.80	0.00	49.66	≤68.2	PASS
		High	5230	AV	5350.000	-56.43	≤-44.41	3.80	0.26	42.86	≤54	PASS
				AV	5350.280	-55.76	≤-44.41	3.80	0.26	43.53	≤54	PASS
				AV	5460.000	-60.02	≤-44.41	3.80	0.26	39.27	≤54	PASS
				Peak	5350.000	-47.76	≤-29.95	3.80	0.00	51.27	≤68.2	PASS
				Peak	5350.800	-43.68	≤-29.95	3.80	0.00	55.35	≤68.2	PASS
				Peak	5460.000	-51.93	≤-29.95	3.80	0.00	47.1	≤68.2	PASS

11AC20SISO	Ant1	Low	5180	AV	4500.000	-62.28	≤-44.28	3.80	0.13	36.88	≤54	PASS
				AV	5149.600	-46.28	≤-44.28	3.80	0.13	52.88	≤54	PASS
				AV	5150.000	-46.04	≤-44.28	3.80	0.13	53.12	≤54	PASS
				Peak	4500.000	-53.3	≤-29.95	3.80	0.00	45.73	≤68.2	PASS
				Peak	5148.200	-33.63	≤-29.95	3.80	0.00	65.4	≤68.2	PASS
				Peak	5150.000	-35.04	≤-29.95	3.80	0.00	63.99	≤68.2	PASS
		High	5240	AV	5350.000	-56.38	≤-44.28	3.80	0.13	42.78	≤54	PASS
				AV	5353.440	-56.08	≤-44.28	3.80	0.13	43.08	≤54	PASS
				AV	5460.000	-60.05	≤-44.28	3.80	0.13	39.11	≤54	PASS
				Peak	5350.000	-48.13	≤-29.95	3.80	0.00	50.9	≤68.2	PASS
				Peak	5358.720	-46.16	≤-29.95	3.80	0.00	52.87	≤68.2	PASS
				Peak	5460.000	-51.71	≤-29.95	3.80	0.00	47.32	≤68.2	PASS
11AC40SISO	Ant1	Low	5190	AV	4500.000	-68.07	≤-44.41	3.80	0.26	31.22	≤54	PASS
				AV	5147.500	-57.95	≤-44.41	3.80	0.26	41.34	≤54	PASS
				AV	5150.000	-57.65	≤-44.41	3.80	0.26	41.64	≤54	PASS
				Peak	4500.000	-60.58	≤-29.95	3.80	0.00	38.45	≤68.2	PASS
				Peak	5144.700	-48.67	≤-29.95	3.80	0.00	50.36	≤68.2	PASS
				Peak	5150.000	-50.12	≤-29.95	3.80	0.00	48.91	≤68.2	PASS
		High	5230	AV	5350.000	-56.02	≤-44.41	3.80	0.26	43.27	≤54	PASS
				AV	5350.280	-55.48	≤-44.41	3.80	0.26	43.81	≤54	PASS
				AV	5460.000	-60.17	≤-44.41	3.80	0.26	39.12	≤54	PASS
				Peak	5350.000	-48.08	≤-29.95	3.80	0.00	50.95	≤68.2	PASS
				Peak	5359.380	-46.45	≤-29.95	3.80	0.00	52.58	≤68.2	PASS
				Peak	5460.000	-52.23	≤-29.95	3.80	0.00	46.8	≤68.2	PASS
11AC80SISO	Ant1	Low	5210	AV	4500.000	-67.81	≤-44.78	3.80	0.63	31.85	≤54	PASS
				AV	5148.000	-57.51	≤-44.78	3.80	0.63	42.15	≤54	PASS
				AV	5150.000	-57.62	≤-44.78	3.80	0.63	42.04	≤54	PASS
				Peak	4500.000	-60.49	≤-29.95	3.80	0.00	38.54	≤68.2	PASS
				Peak	5136.000	-45.91	≤-29.95	3.80	0.00	53.12	≤68.2	PASS
				Peak	5150.000	-47.2	≤-29.95	3.80	0.00	51.83	≤68.2	PASS
		High	5210	AV	5350.000	-50.88	≤-44.78	3.80	0.63	48.78	≤54	PASS
				AV	5350.520	-50.23	≤-44.78	3.80	0.63	49.43	≤54	PASS
				AV	5460.000	-60.24	≤-44.78	3.80	0.63	39.42	≤54	PASS
				Peak	5350.000	-43.03	≤-29.95	3.80	0.00	56	≤68.2	PASS
				Peak	5356.400	-37.58	≤-29.95	3.80	0.00	61.45	≤68.2	PASS
				Peak	5460.000	-52.04	≤-29.95	3.80	0.00	46.99	≤68.2	PASS

Note:

1. The Antenna Gain is compensated in the graph.

Test Graphs

