

Appendix C

RF Test Data for 5.3GWIFI (Conducted Measurement)

Aston Martin Valkyrie

Test Model: Aston Martin Valkyrie

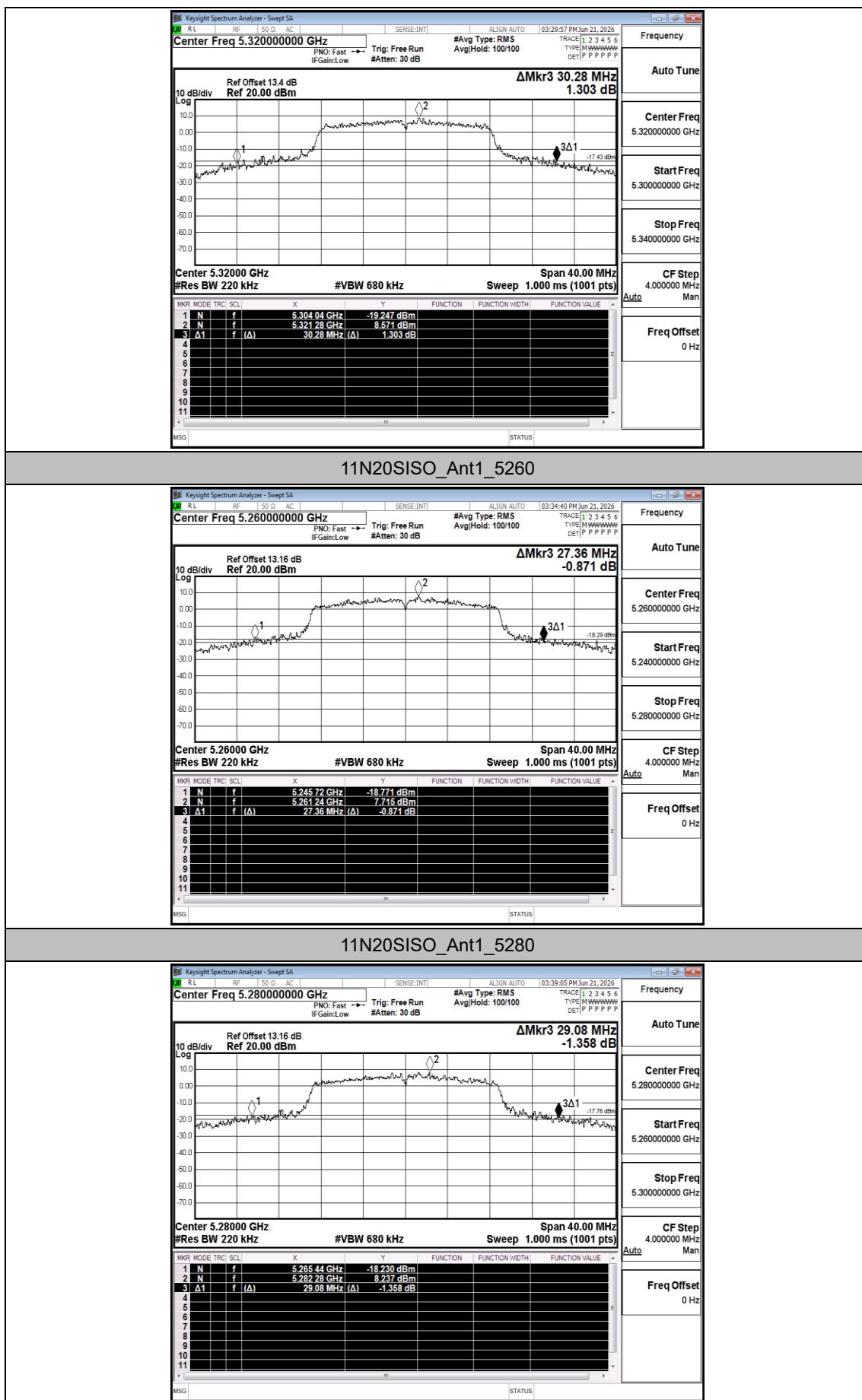
Environmental Conditions

Temperature:	24.8° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang Hai
Supervised by:	Fengliu Tang

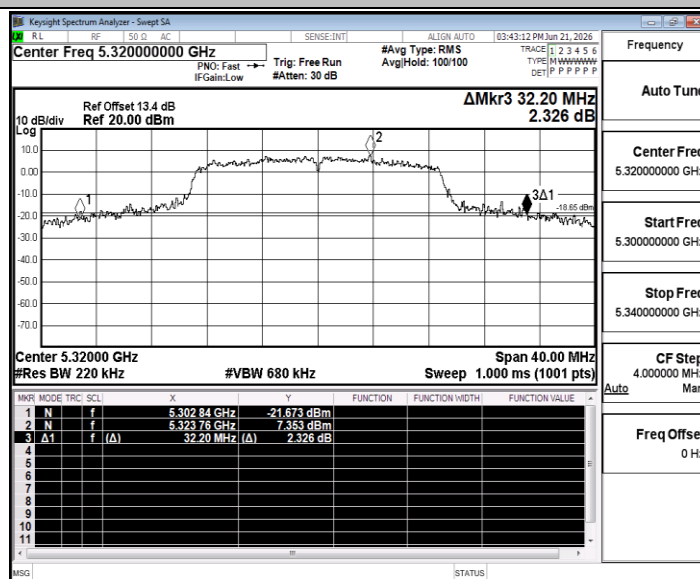
C.1 Emission Bandwidth

Test Result

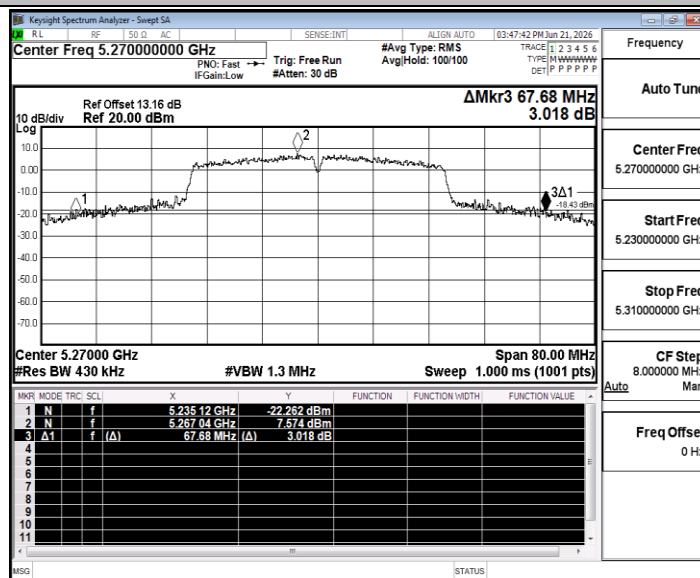
TestMode	Antenna	Freq (MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5260	23.200	5249.000	5272.200	---	---
		5280	28.800	5265.880	5294.680	---	---
		5320	30.280	5304.040	5334.320	---	---
11N20SISO	Ant1	5260	27.360	5245.720	5273.080	---	---
		5280	29.080	5265.440	5294.520	---	---
		5320	32.200	5302.840	5335.040	---	---
11N40SISO	Ant1	5270	67.680	5235.120	5302.800	---	---
		5310	71.520	5275.120	5346.640	---	---
11AC20SISO	Ant1	5260	30.960	5244.520	5275.480	---	---
		5280	31.240	5264.680	5295.920	---	---
		5320	35.240	5302.920	5338.160	---	---
11AC40SISO	Ant1	5270	73.200	5233.600	5306.800	---	---
		5310	70.640	5273.920	5344.560	---	---
11AX20SISO	Ant1	5260	31.280	5244.680	5275.960	---	---
		5280	30.080	5264.680	5294.760	---	---
		5320	31.080	5303.720	5334.800	---	---
11AX40SISO	Ant1	5270	61.120	5234.720	5295.840	---	---
		5310	71.040	5273.760	5344.800	---	---



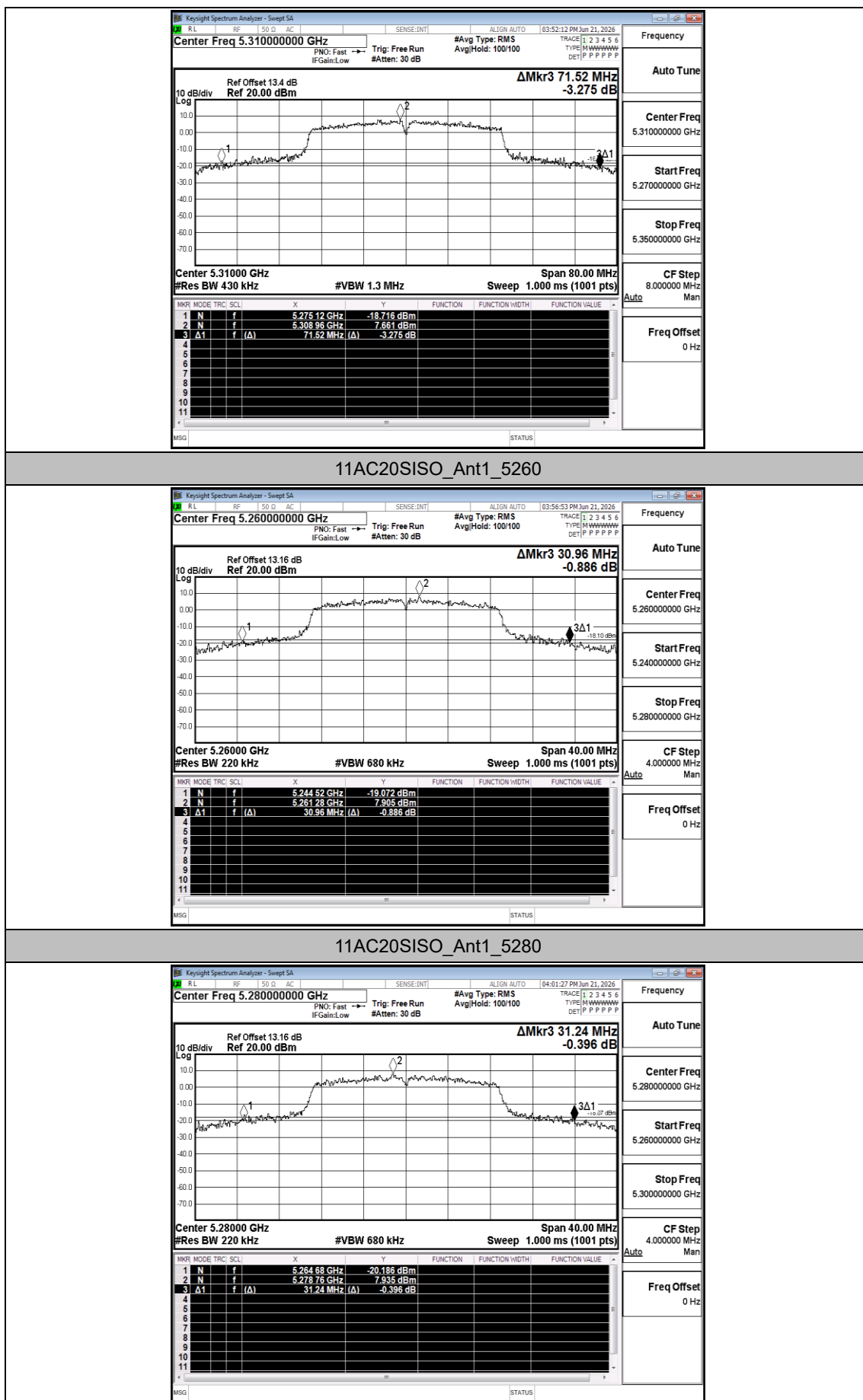
11N20SISO_Ant1_5320



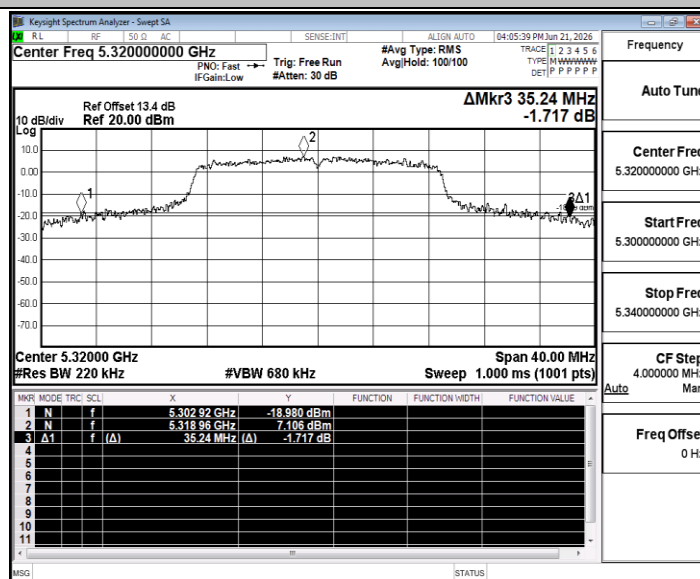
11N40SISO_Ant1_5270



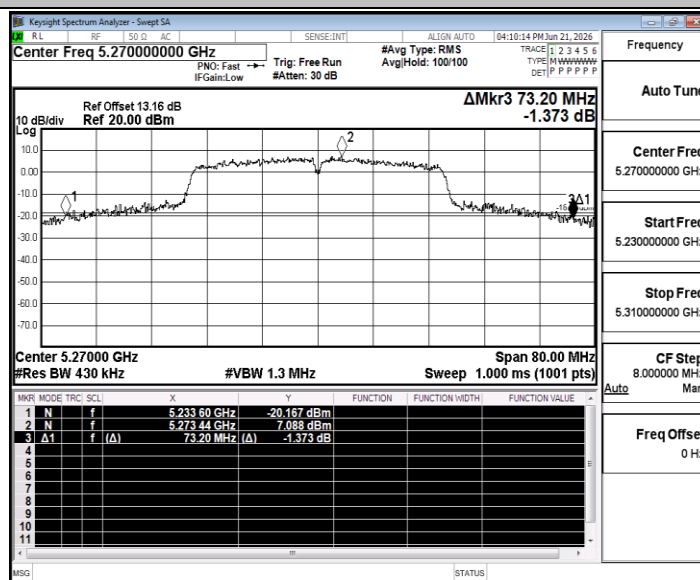
11N40SISO_Ant1_5310



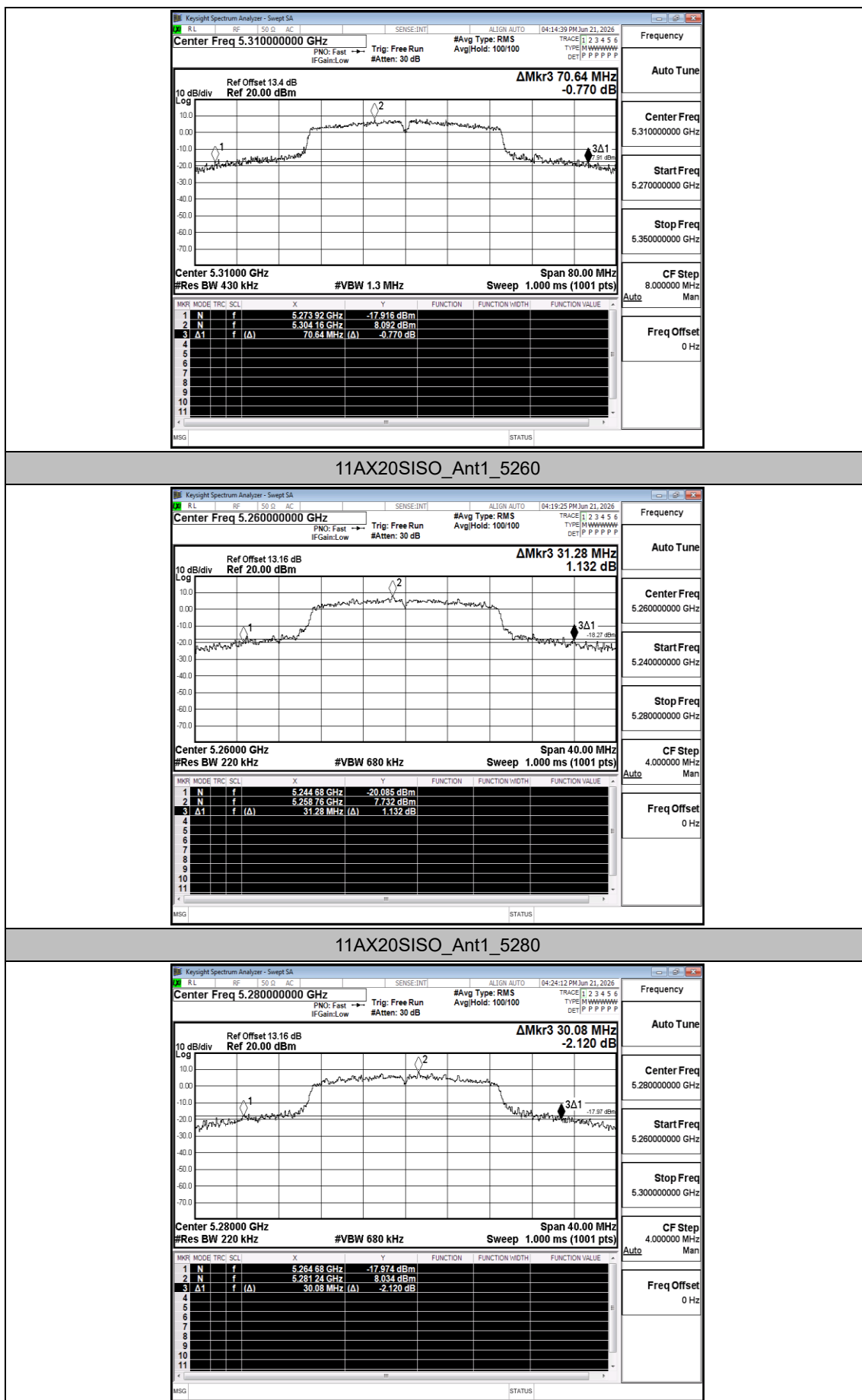
11AC20SISO_Ant1_5320



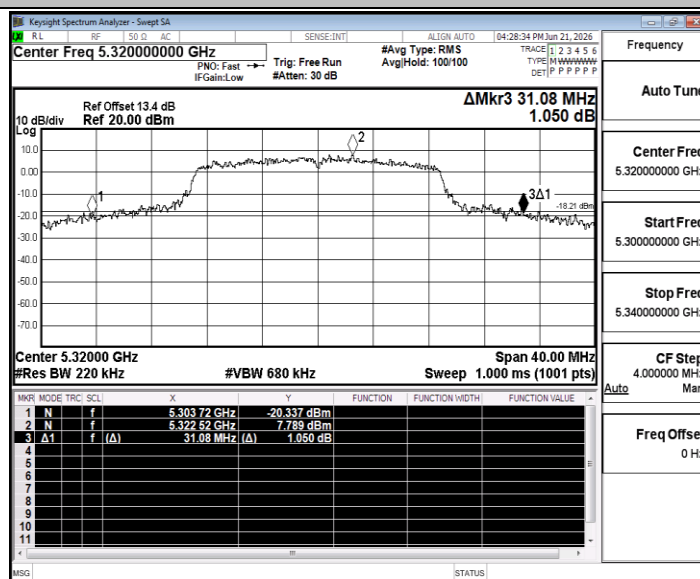
11AC40SISO_Ant1_5270



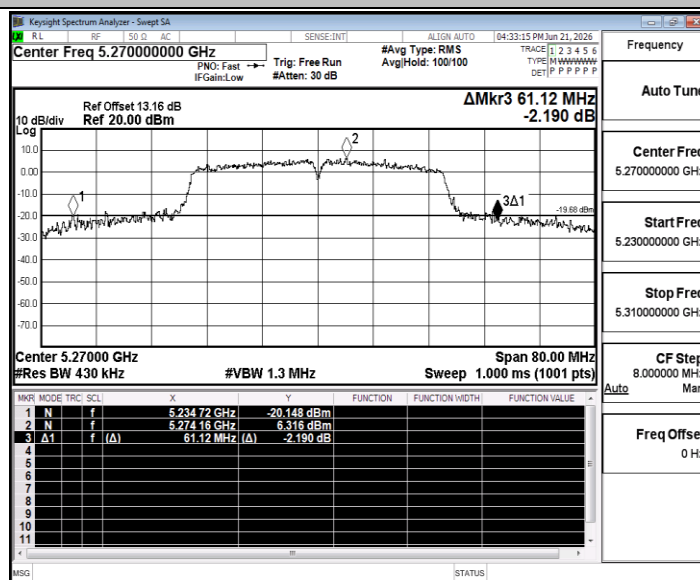
11AC40SISO_Ant1_5310



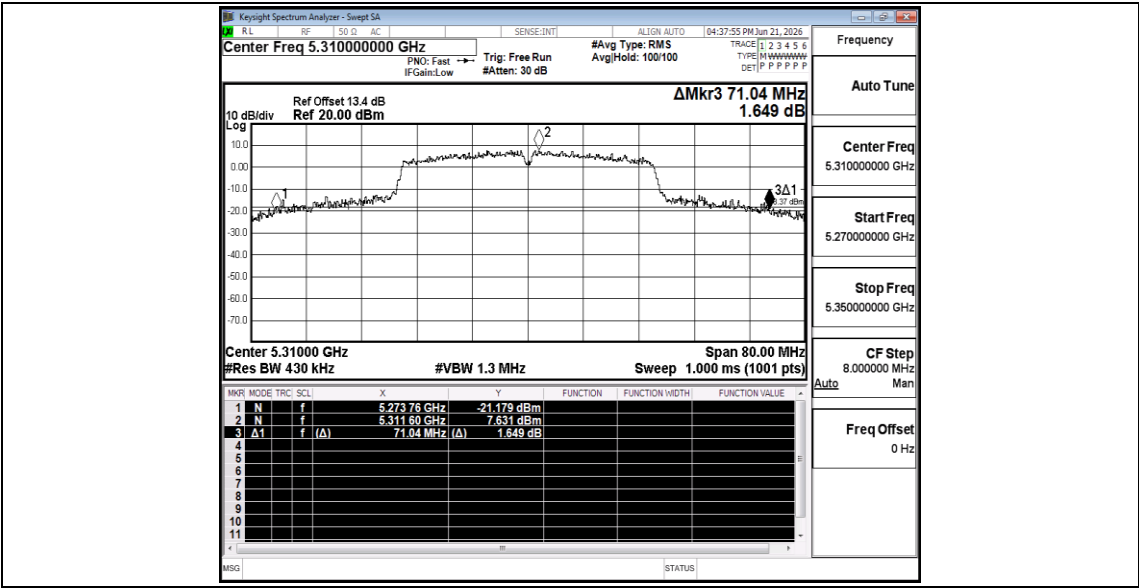
11AX20SISO_Ant1_5320



11AX40SISO_Ant1_5270



11AX40SISO_Ant1_5310



C.2 Maximum conducted output power

Test Result

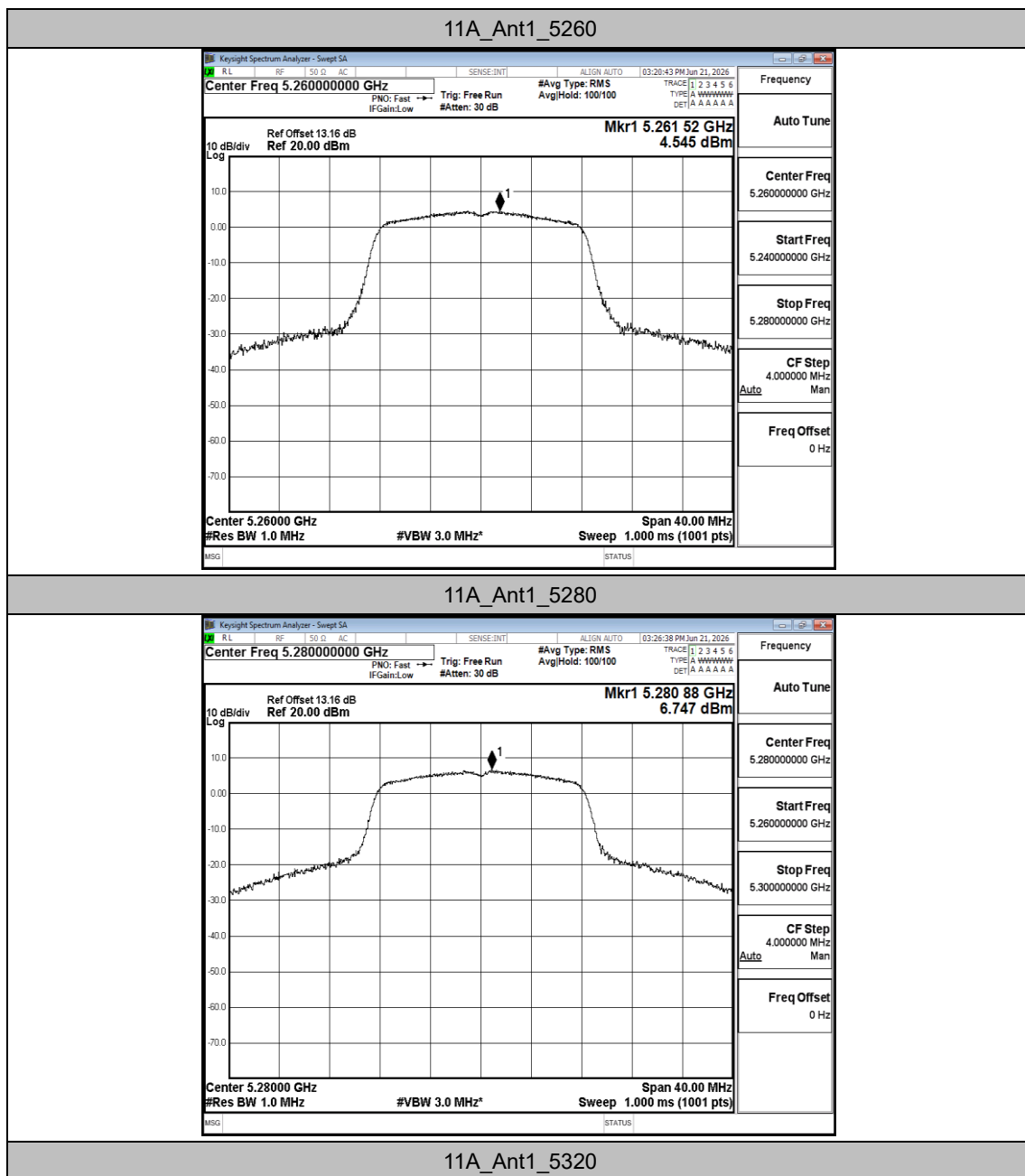
Test Mode	Antenna	Freq (MHz)	Conducted Power (dBm)	DC Factor [dB]	Total Conducted Power (dBm)	Limit Conducted (dBm)	Verdict
11A	Ant1	5260	7.31	0.15	7.46	≤23.98	PASS
		5280	6.96	0.12	7.08	≤23.98	PASS
		5320	7.08	0.15	7.23	≤23.98	PASS
11N20SISO	Ant1	5260	6.82	0.16	6.98	≤23.98	PASS
		5280	6.72	0.13	6.85	≤23.98	PASS
		5320	6.62	0.16	6.78	≤23.98	PASS
11N40SISO	Ant1	5270	6.54	0.33	6.87	≤23.98	PASS
		5310	6.39	0.32	6.71	≤23.98	PASS
11AC20SISO	Ant1	5260	6.49	0.13	6.62	≤23.98	PASS
		5280	6.00	0.16	6.16	≤23.98	PASS
		5320	6.27	0.13	6.40	≤23.98	PASS
11AC40SISO	Ant1	5270	6.49	0.26	6.75	≤23.98	PASS
		5310	6.28	0.26	6.54	≤23.98	PASS
11AX20SISO	Ant1	5260	7.24	0.13	7.37	≤23.98	PASS
		5280	6.90	0.16	7.06	≤23.98	PASS
		5320	6.94	0.16	7.10	≤23.98	PASS
11AX40SISO	Ant1	5270	6.46	0.26	6.72	≤23.98	PASS
		5310	6.34	0.26	6.60	≤23.98	PASS

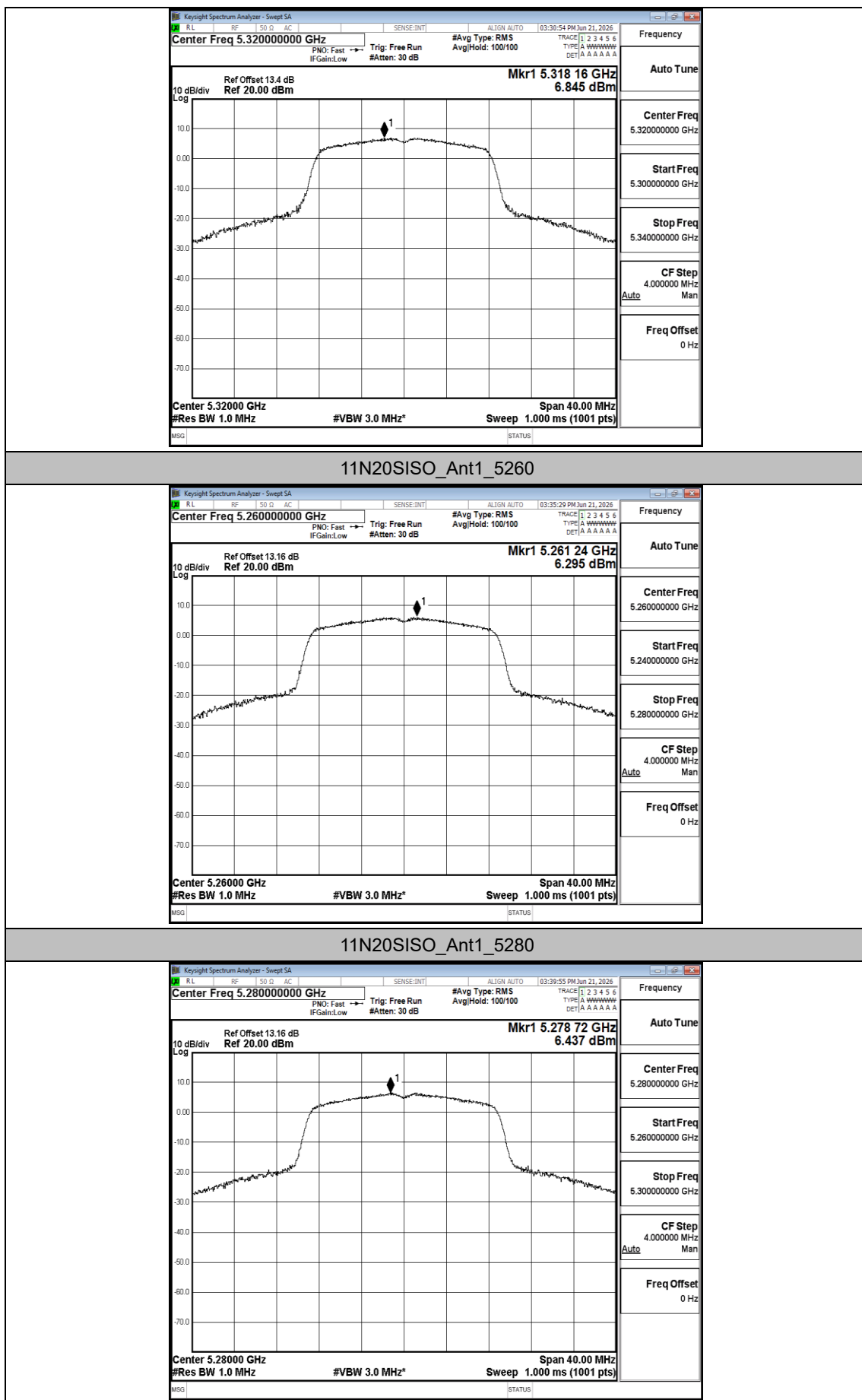
C.3 Maximum Power Spectral Density Level

Test Result

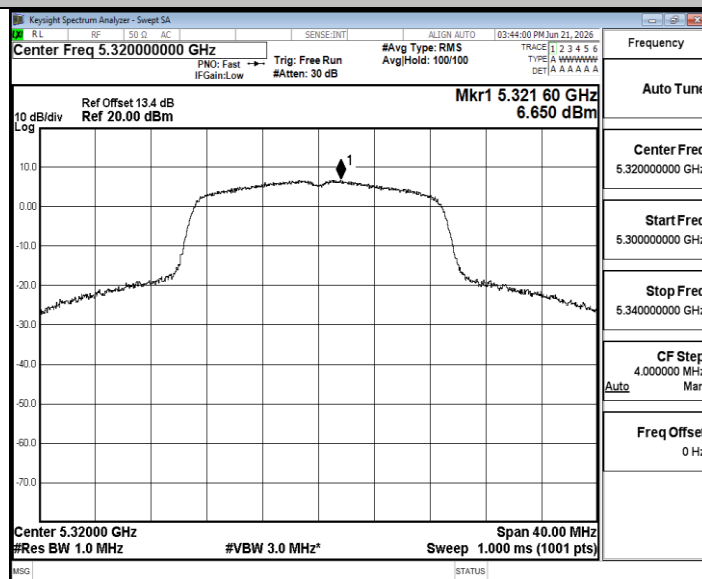
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5260	4.55	0.15	4.70	≤11.00	PASS
		5280	6.75	0.12	6.87	≤11.00	PASS
		5320	6.85	0.15	7.00	≤11.00	PASS
11N20SISO	Ant1	5260	6.3	0.16	6.46	≤11.00	PASS
		5280	6.44	0.13	6.57	≤11.00	PASS
		5320	6.65	0.16	6.81	≤11.00	PASS
11N40SISO	Ant1	5270	3.59	0.33	3.92	≤11.00	PASS
		5310	4.18	0.32	4.50	≤11.00	PASS
11AC20SISO	Ant1	5260	6.29	0.13	6.42	≤11.00	PASS
		5280	6.28	0.16	6.44	≤11.00	PASS
		5320	6.66	0.13	6.79	≤11.00	PASS
11AC40SISO	Ant1	5270	3.69	0.26	3.95	≤11.00	PASS
		5310	4.15	0.26	4.41	≤11.00	PASS
11AX20SISO	Ant1	5260	6.28	0.13	6.41	≤11.00	PASS
		5280	6.36	0.16	6.52	≤11.00	PASS
		5320	6.9	0.16	7.06	≤11.00	PASS
11AX40SISO	Ant1	5270	2.72	0.26	2.98	≤11.00	PASS
		5310	3.98	0.26	4.24	≤11.00	PASS

Test Graphs

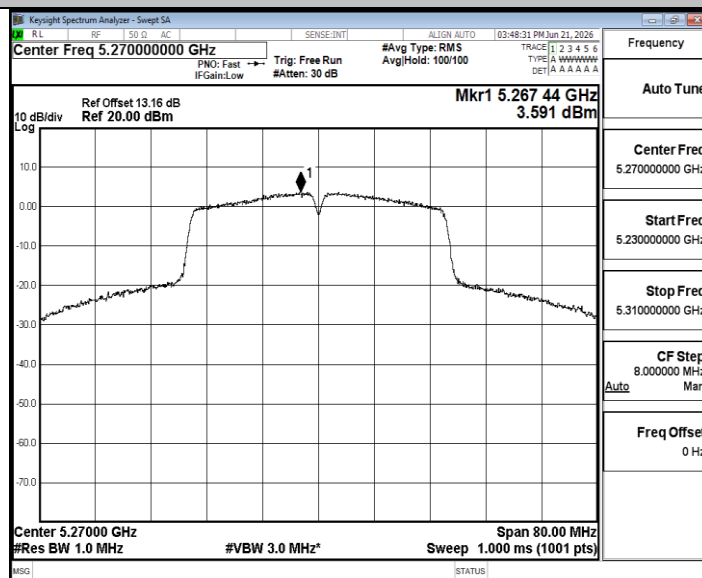




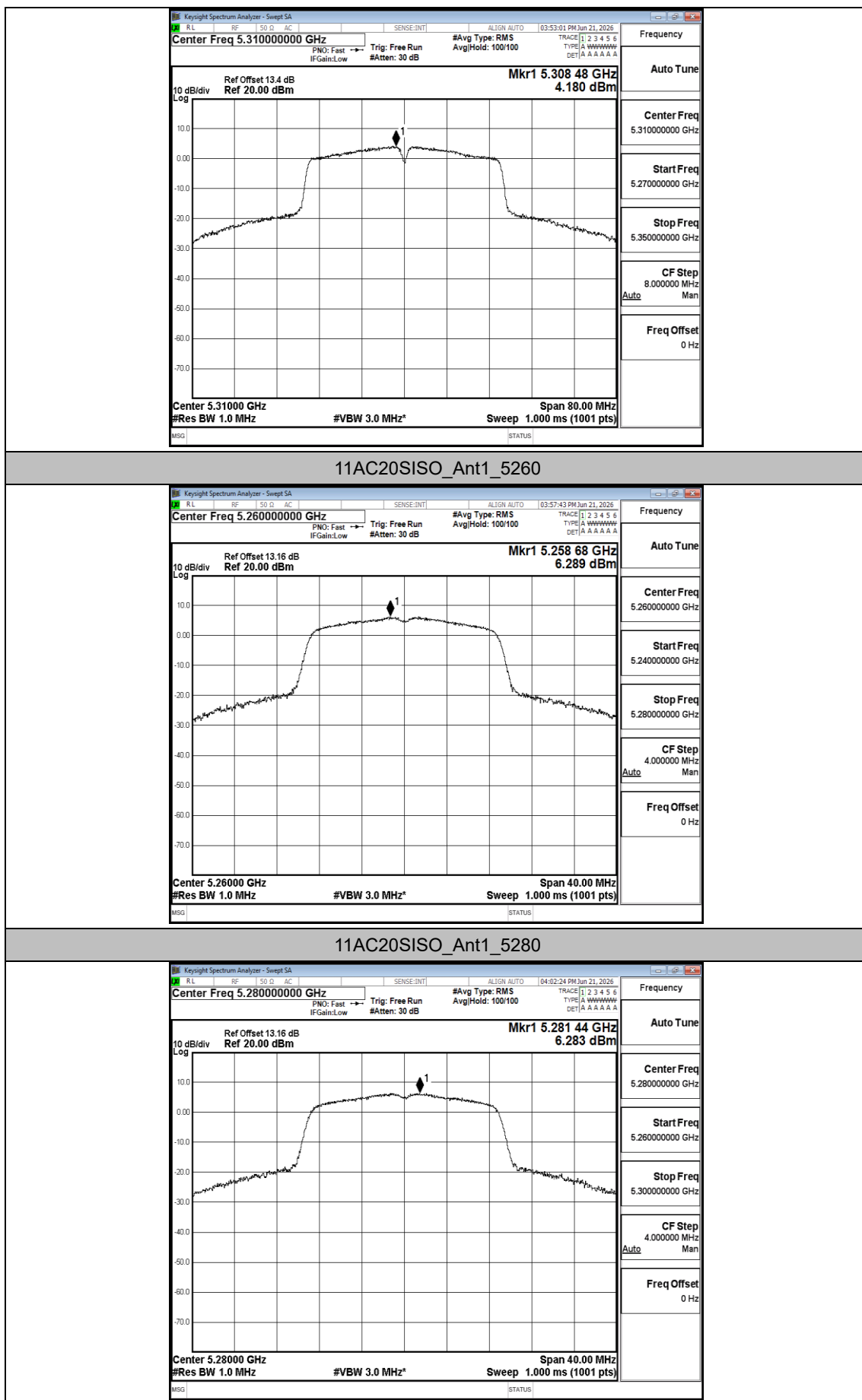
11N20SISO_Ant1_5320



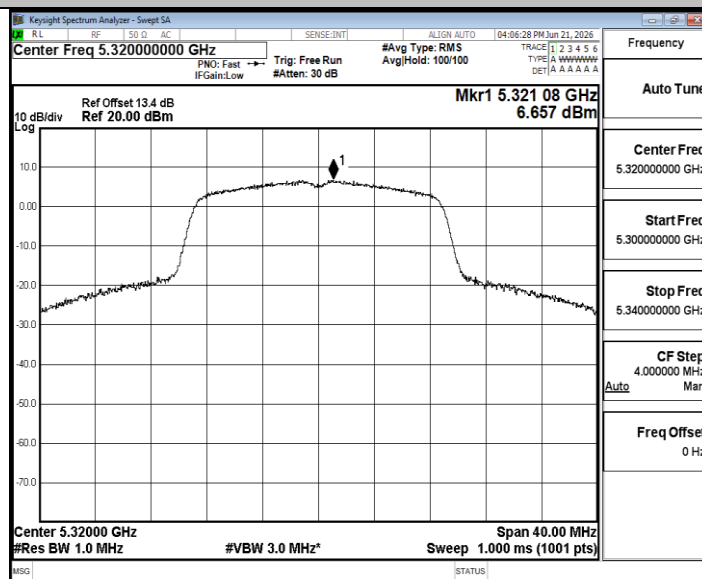
11N40SISO_Ant1_5270



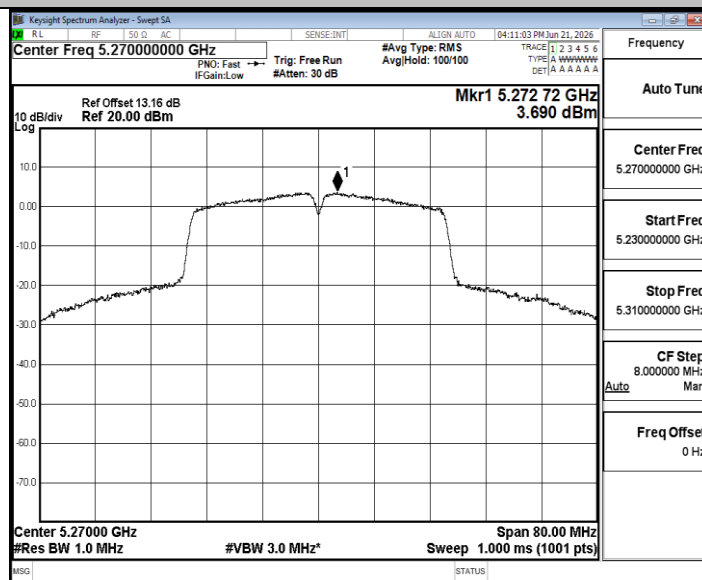
11N40SISO_Ant1_5310



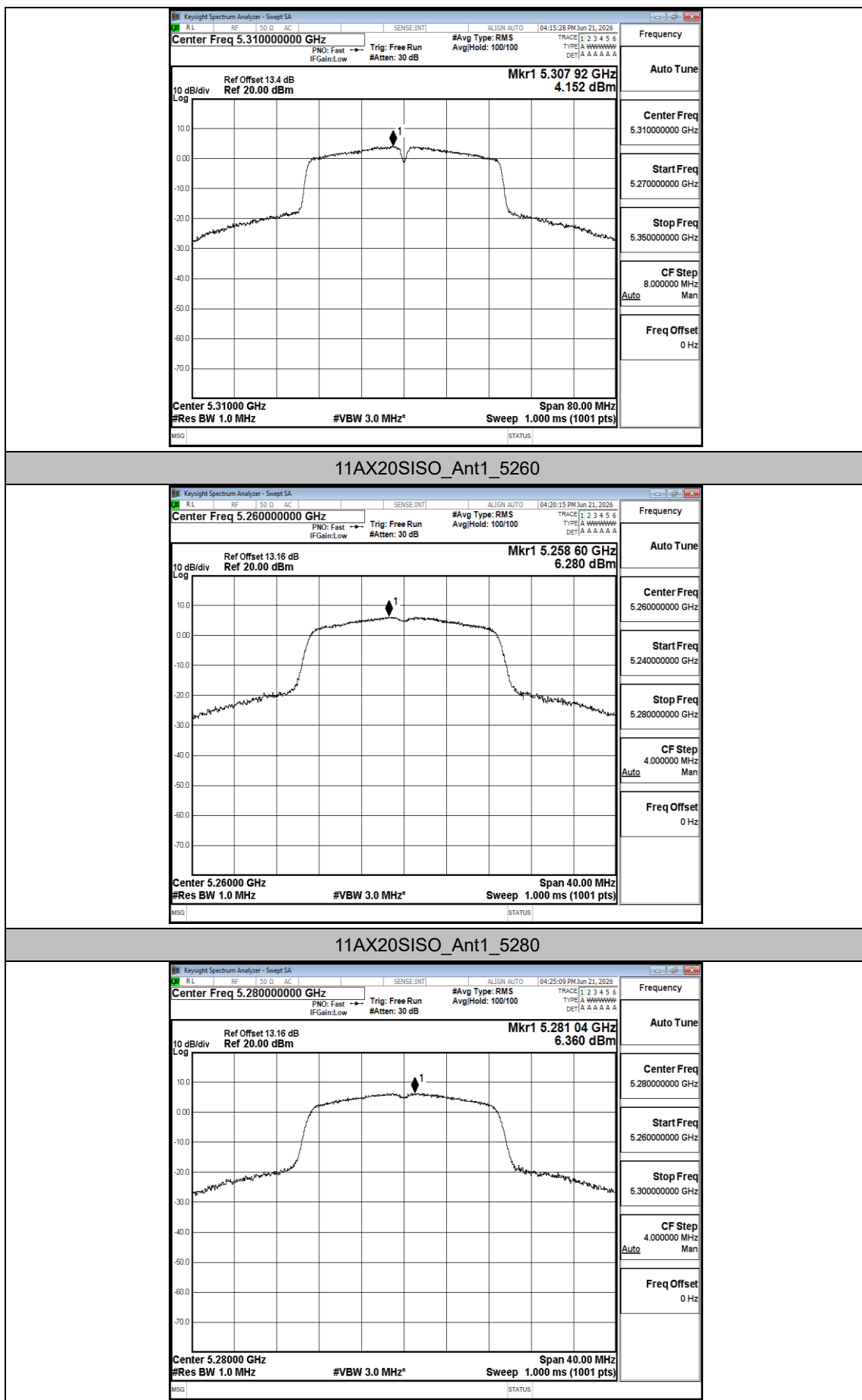
11AC20SISO_Ant1_5320

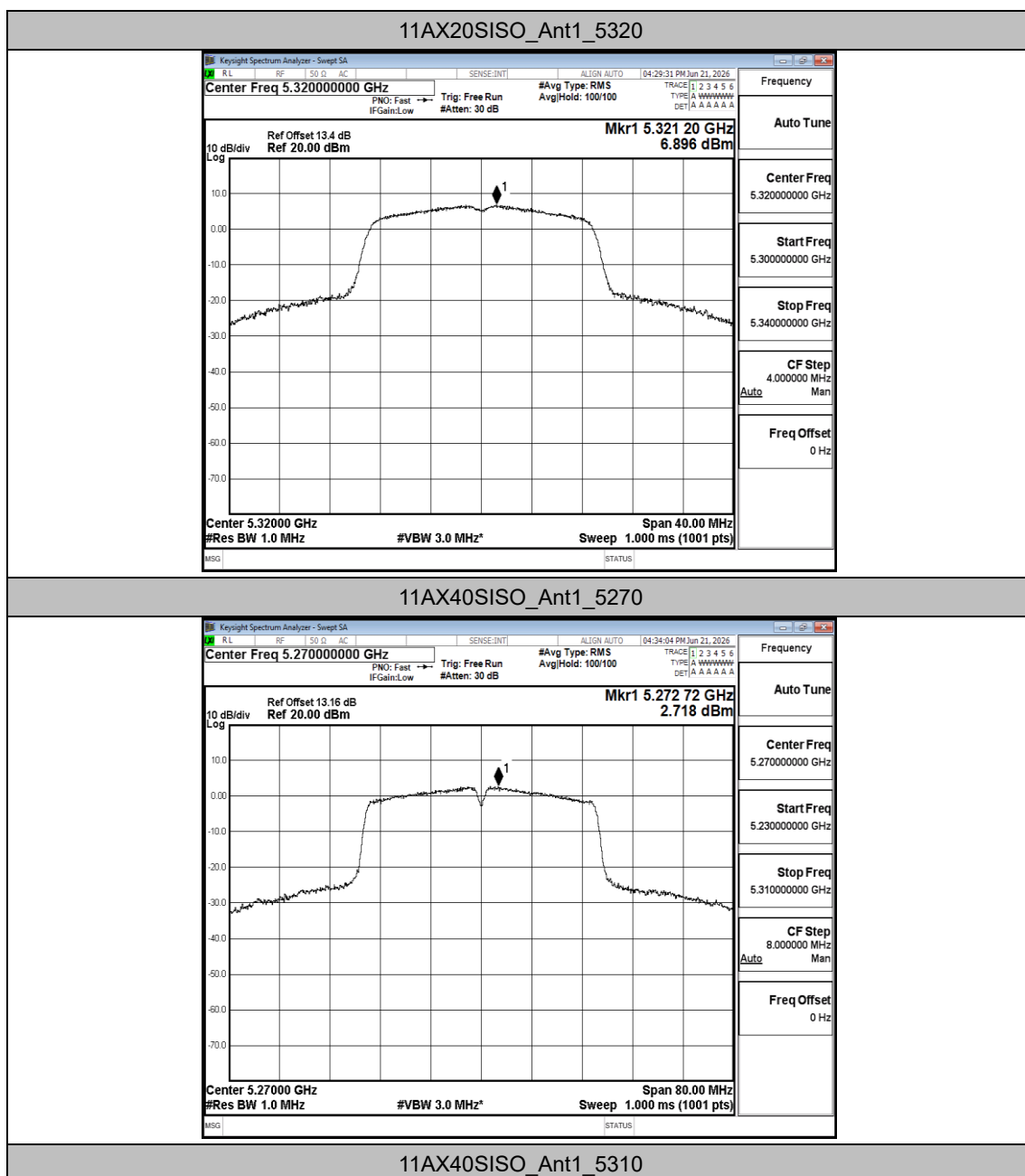


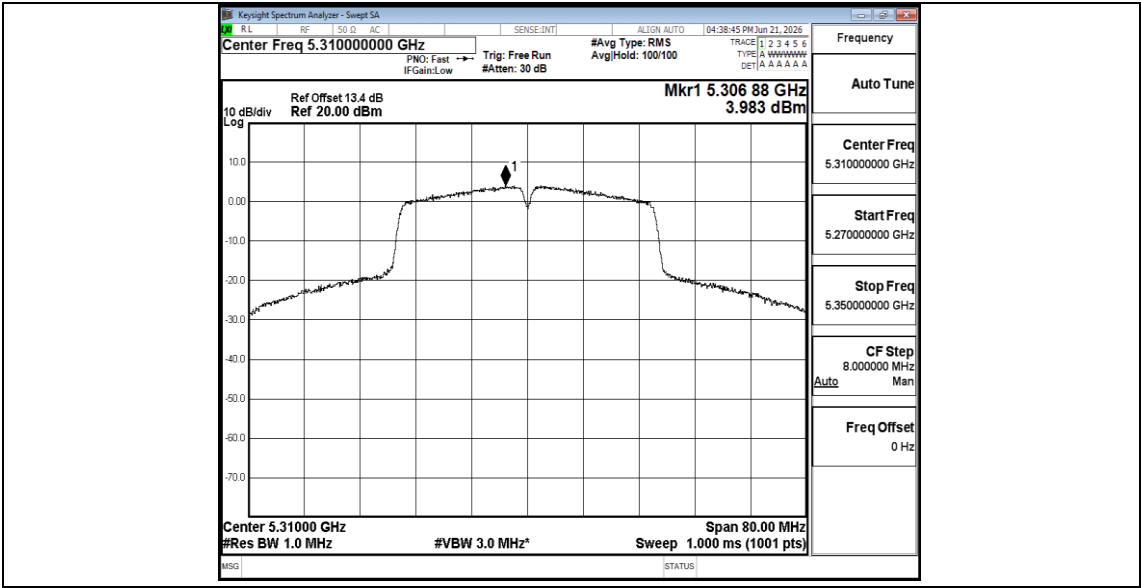
11AC40SISO_Ant1_5270



11AC40SISO_Ant1_5310



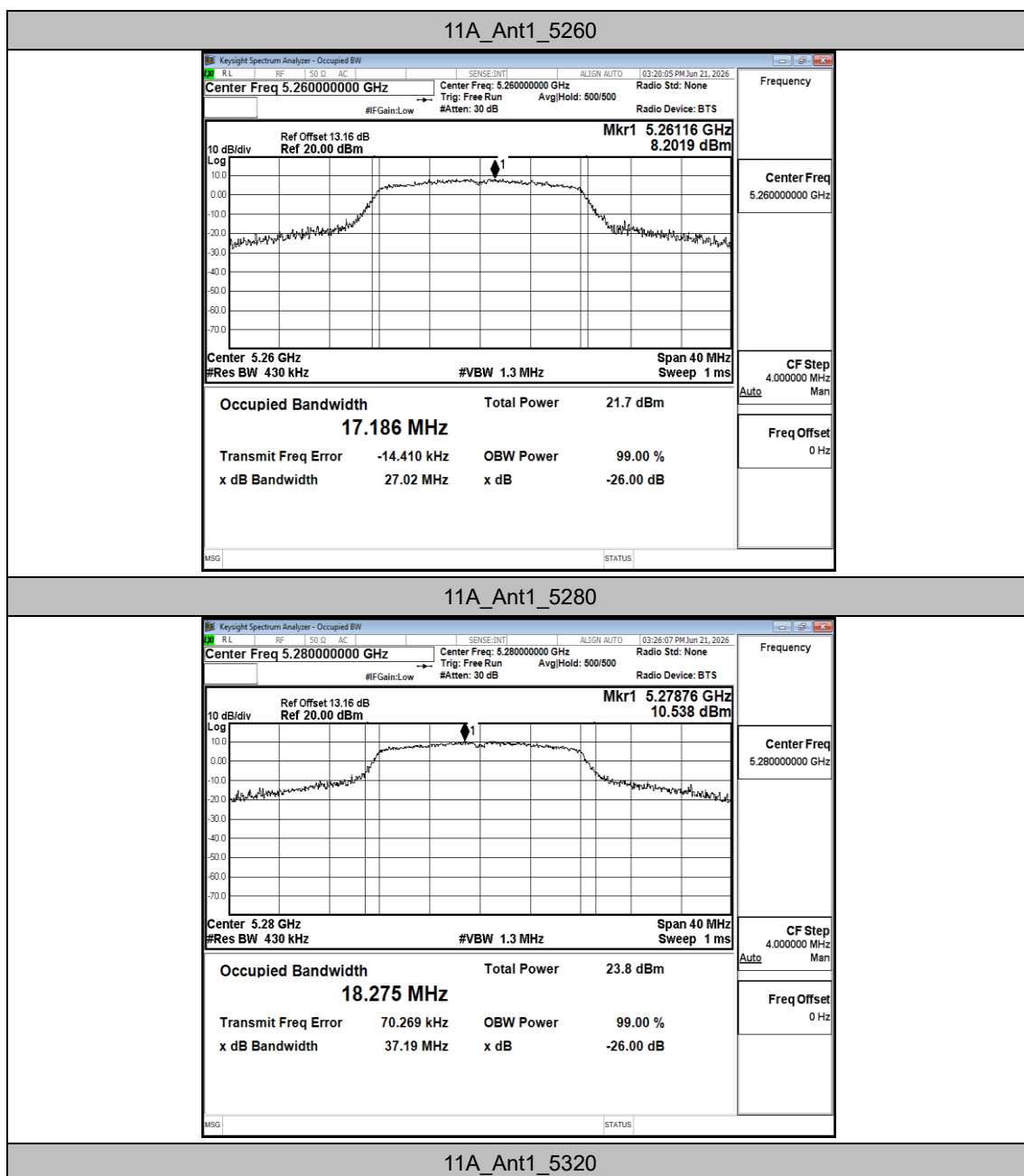


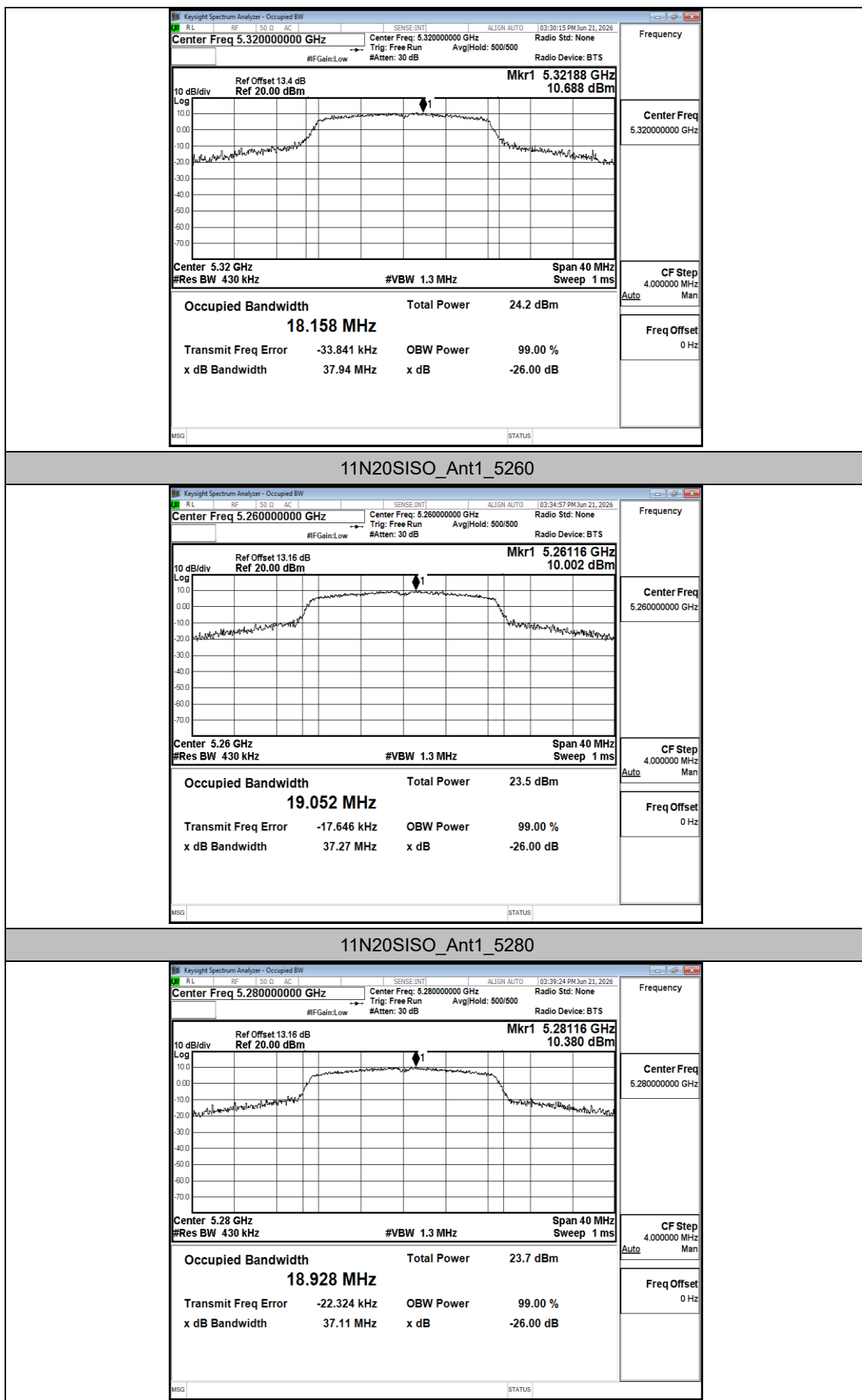


Test Result

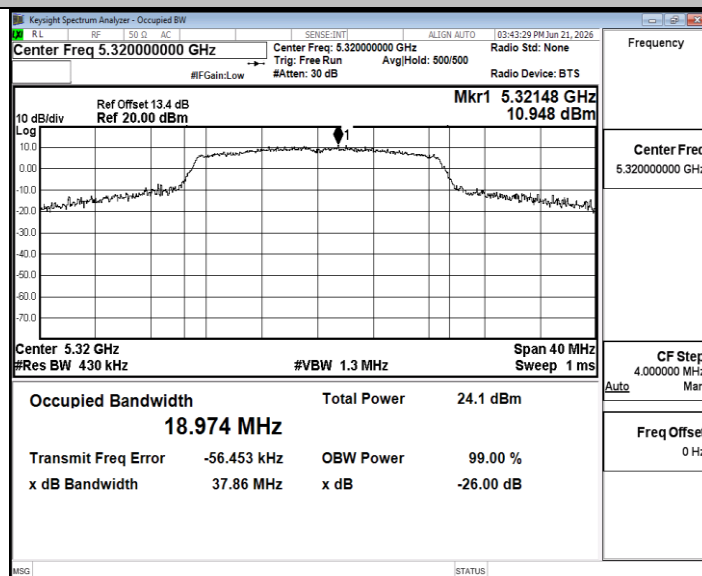
TestMode	Antenna	Freq (MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5260	17.186	5251.3926	5268.5786	---	---
		5280	18.275	5270.9328	5289.2078	---	---
		5320	18.158	5310.8872	5329.0452	---	---
11N20SISO	Ant1	5260	19.052	5250.4564	5269.5084	---	---
		5280	18.928	5270.5137	5289.4417	---	---
		5320	18.974	5310.4566	5329.4306	---	---
11N40SISO	Ant1	5270	38.067	5250.9552	5289.0222	---	---
		5310	38.373	5290.6884	5329.0614	---	---
11AC20SISO	Ant1	5260	18.775	5250.5950	5269.3700	---	---
		5280	18.771	5270.6234	5289.3944	---	---
		5320	18.918	5310.5157	5329.4337	---	---
11AC40SISO	Ant1	5270	37.956	5250.9684	5288.9244	---	---
		5310	38.208	5290.8773	5329.0853	---	---
11AX20SISO	Ant1	5260	18.672	5250.6922	5269.3642	---	---
		5280	18.891	5270.5620	5289.4530	---	---
		5320	18.910	5310.5089	5329.4189	---	---
11AX40SISO	Ant1	5270	36.885	5251.5159	5288.4009	---	---
		5310	38.062	5290.9167	5328.9787	---	---

Test Graphs

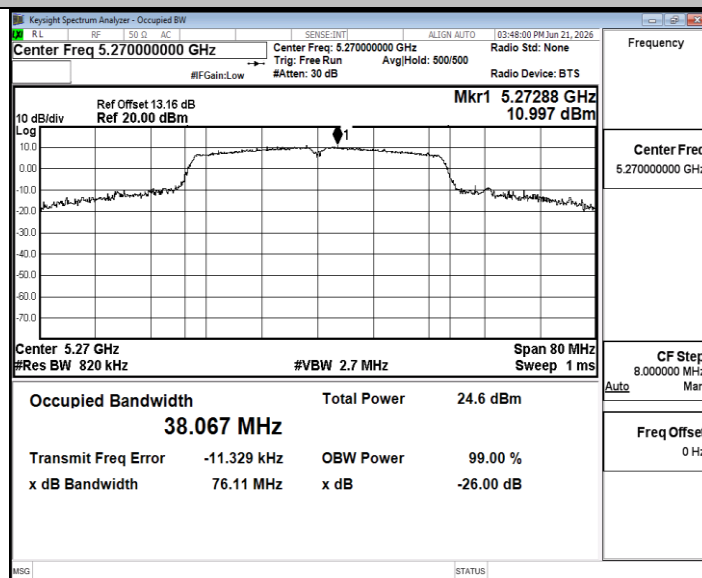




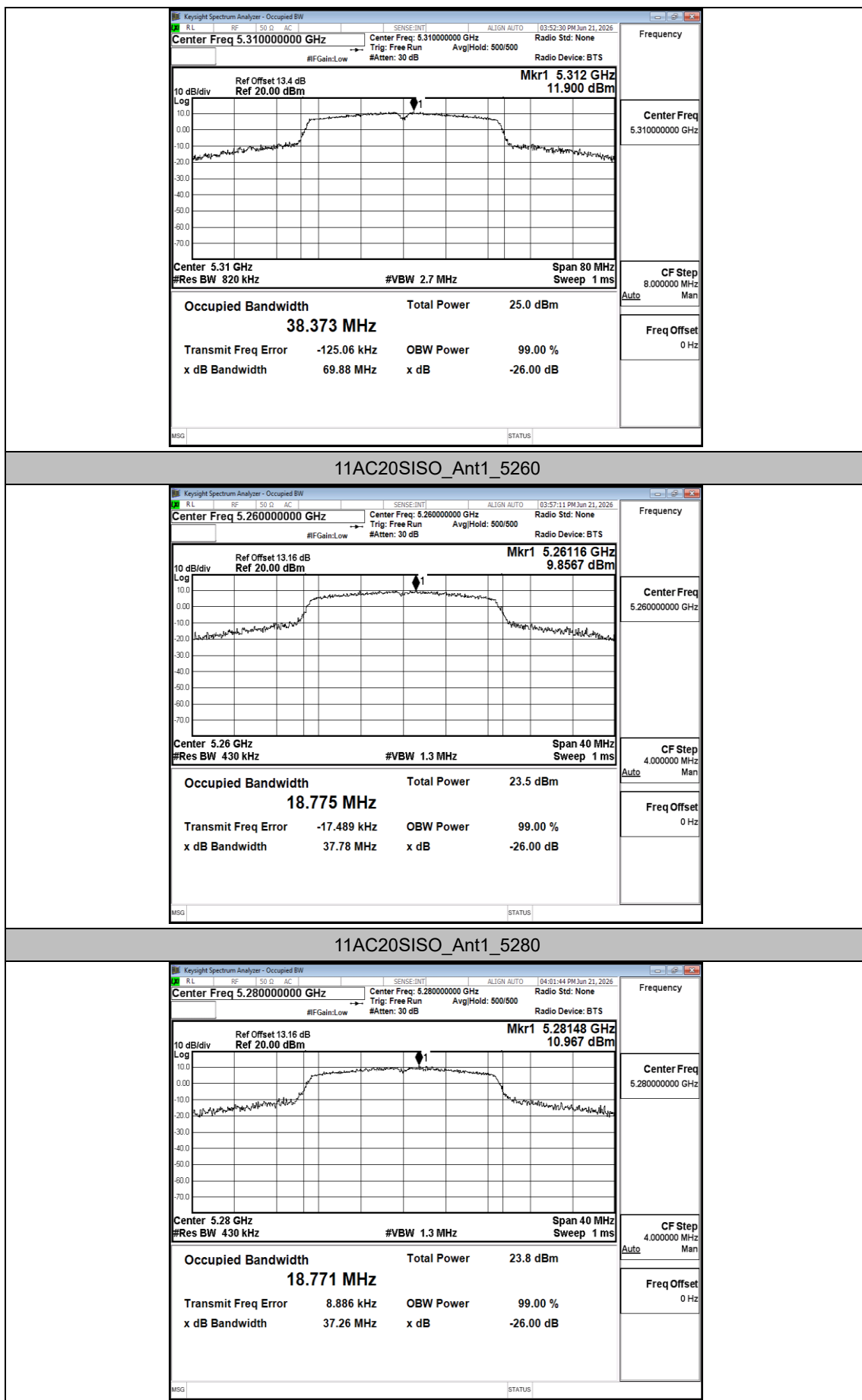
11N20SISO_Ant1_5320



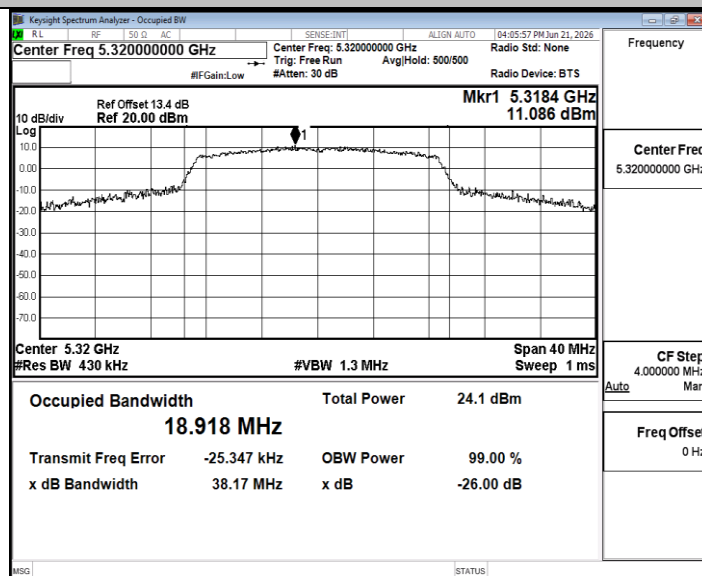
11N40SISO_Ant1_5270



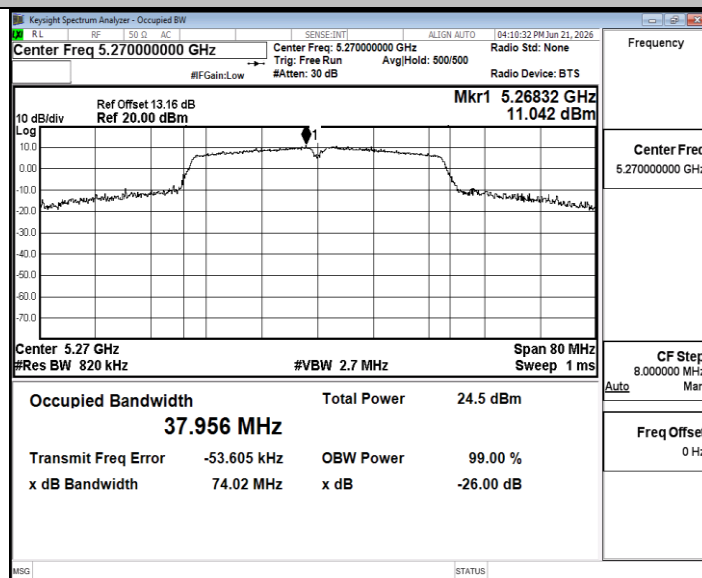
11N40SISO_Ant1_5310



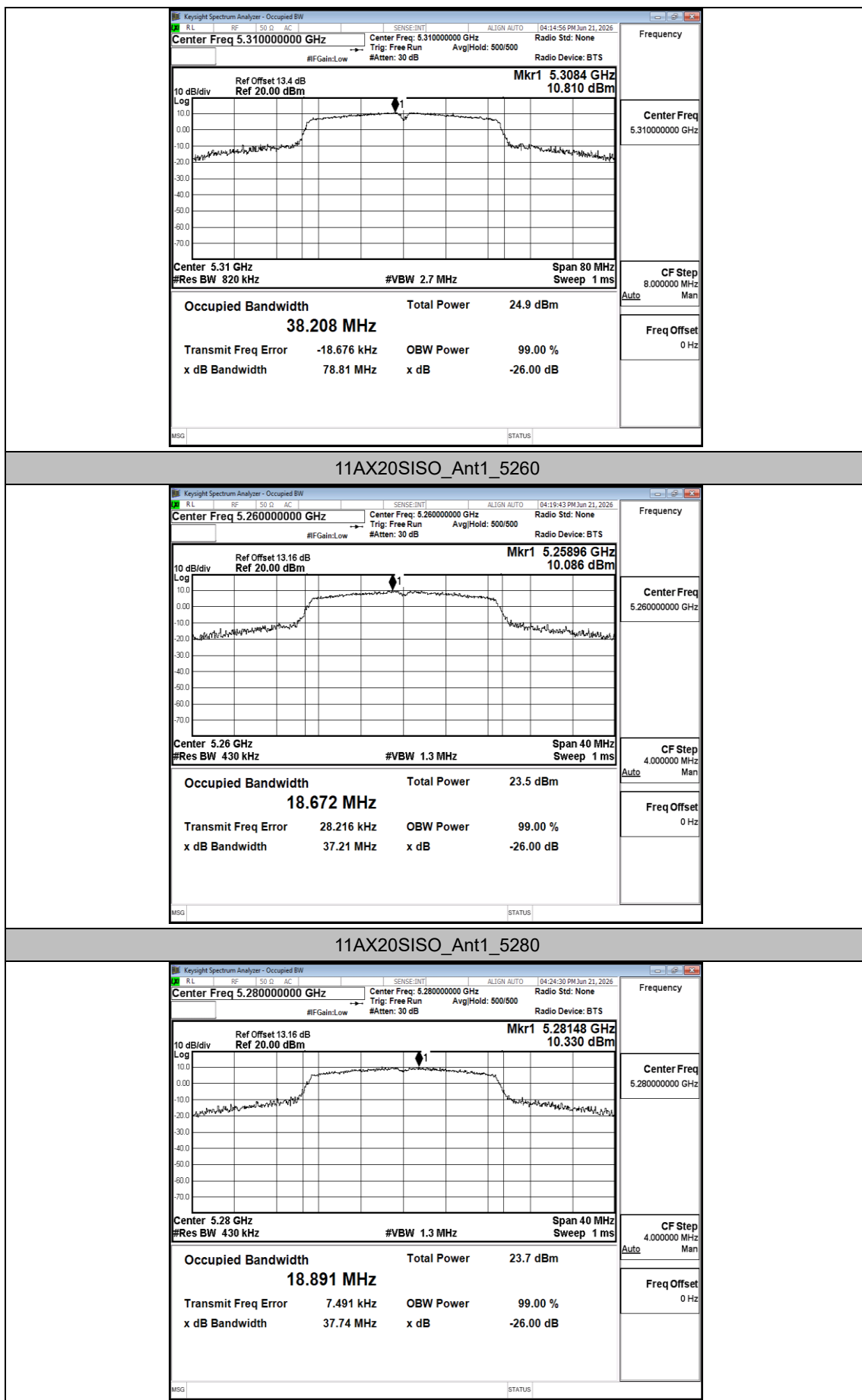
11AC20SISO_Ant1_5320



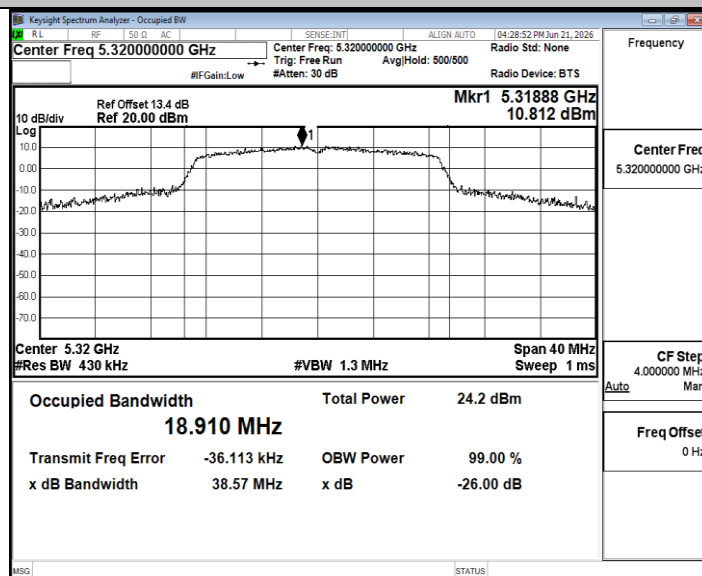
11AC40SISO_Ant1_5270



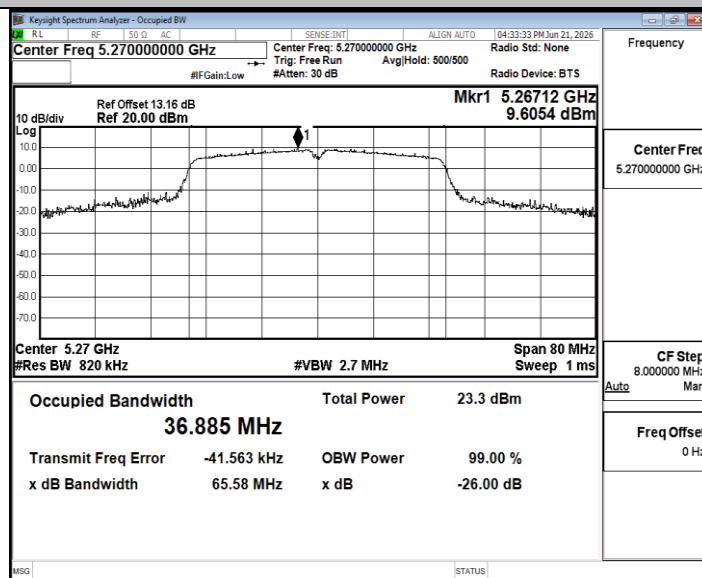
11AC40SISO_Ant1_5310



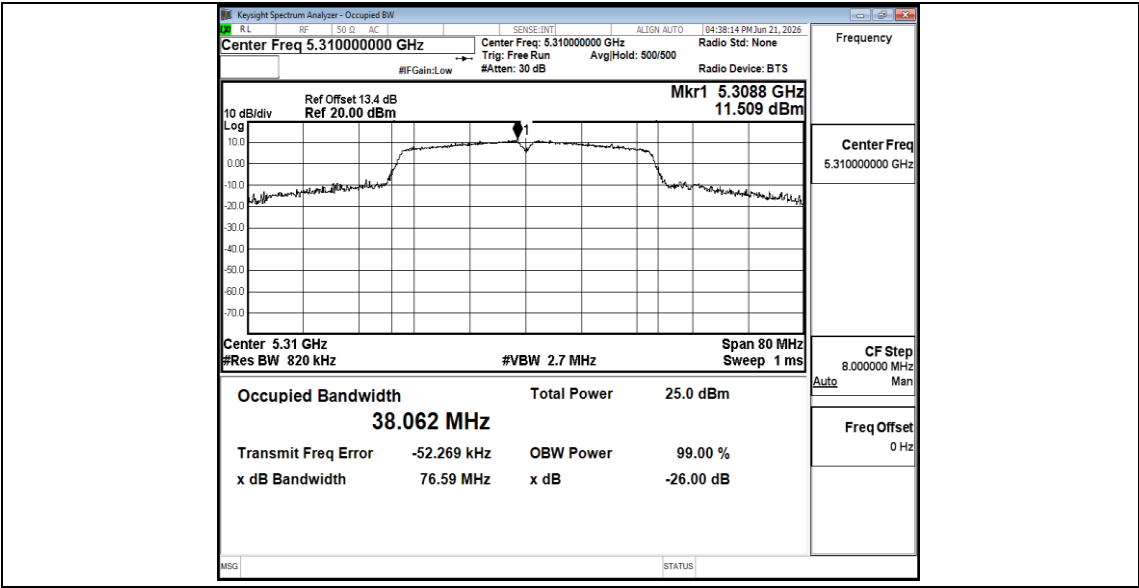
11AX20SISO_Ant1_5320



11AX40SISO_Ant1_5270



11AX40SISO_Ant1_5310



C.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	5260	AV	4500.000	-58.05	≤-43.35	3.62	0.15	40.80	≤54	PASS
				AV	5149.380	-53.87	≤-43.35	3.62	0.15	45.13	≤54	PASS
				AV	5150.000	-54.85	≤-43.35	3.62	0.15	44.00	≤54	PASS
				Peak	4500.000	-49.63	≤-29.00	3.62	0.00	49.22	≤68.2	PASS
				Peak	5149.380	-44.59	≤-29.00	3.62	0.00	54.26	≤68.2	PASS
				Peak	5150.000	-44.52	≤-29.00	3.62	0.00	54.33	≤68.2	PASS
		High	5320	AV	5350.000	-51.42	≤-43.35	3.62	0.15	47.43	≤54	PASS
				AV	5350.400	-51.41	≤-43.35	3.62	0.15	47.59	≤54	PASS
				AV	5460.000	-56.36	≤-43.35	3.62	0.15	42.64	≤54	PASS
				Peak	5350.000	-44.05	≤-29.00	3.62	0.00	54.80	≤68.2	PASS
				Peak	5350.400	-41.03	≤-29.00	3.62	0.00	57.82	≤68.2	PASS
				Peak	5460.000	-47.97	≤-29.00	3.62	0.00	50.88	≤68.2	PASS
11N20SISO	Ant1	Low	5260	AV	4500.000	-57.94	≤-43.36	3.62	0.16	41.07	≤54	PASS
				AV	5145.430	-54.28	≤-43.36	3.62	0.16	44.57	≤54	PASS
				AV	5150.000	-55.02	≤-43.36	3.62	0.16	43.99	≤54	PASS
				Peak	4500.000	-49.84	≤-29.00	3.62	0.00	49.01	≤68.2	PASS
				Peak	5094.080	-44.54	≤-29.00	3.62	0.00	54.31	≤68.2	PASS
				Peak	5150.000	-46.43	≤-29.00	3.62	0.00	52.42	≤68.2	PASS
		High	5320	AV	5350.000	-52.18	≤-43.36	3.62	0.16	46.83	≤54	PASS
				AV	5350.400	-51.64	≤-43.36	3.62	0.16	47.21	≤54	PASS
				AV	5460.000	-56.18	≤-43.36	3.62	0.16	42.83	≤54	PASS
				Peak	5350.000	-43.77	≤-29.00	3.62	0.00	55.08	≤68.2	PASS
				Peak	5354.720	-35.07	≤-29.00	3.62	0.00	63.78	≤68.2	PASS
				Peak	5460.000	-47.51	≤-29.00	3.62	0.00	51.34	≤68.2	PASS
11N40SISO	Ant1	Low	5270	AV	4500.000	-58.67	≤-43.53	3.62	0.33	40.51	≤54	PASS
				AV	5147.800	-53.15	≤-43.53	3.62	0.33	45.70	≤54	PASS
				AV	5150.000	-53.09	≤-43.53	3.62	0.33	46.09	≤54	PASS
				Peak	4500.000	-50.9	≤-29.00	3.62	0.00	47.95	≤68.2	PASS
				Peak	5149.380	-42.78	≤-29.00	3.62	0.00	56.07	≤68.2	PASS
				Peak	5150.000	-42.45	≤-29.00	3.62	0.00	56.40	≤68.2	PASS
		High	5310	AV	5350.000	-48.6	≤-43.52	3.62	0.32	50.57	≤54	PASS
				AV	5350.400	-48.03	≤-43.52	3.62	0.32	50.82	≤54	PASS
				AV	5460.000	-56.45	≤-43.52	3.62	0.32	42.40	≤54	PASS
				Peak	5350.000	-35.12	≤-29.00	3.62	0.00	63.73	≤68.2	PASS
				Peak	5355.040	-31.24	≤-29.00	3.62	0.00	67.61	≤68.2	PASS
				Peak	5460.000	-48.79	≤-29.00	3.62	0.00	50.06	≤68.2	PASS