

Appendix E

RF Test Data for 5.3GWIFI (Conducted Measurement)

Product Name: Projector

Test Model: T7

Environmental Conditions

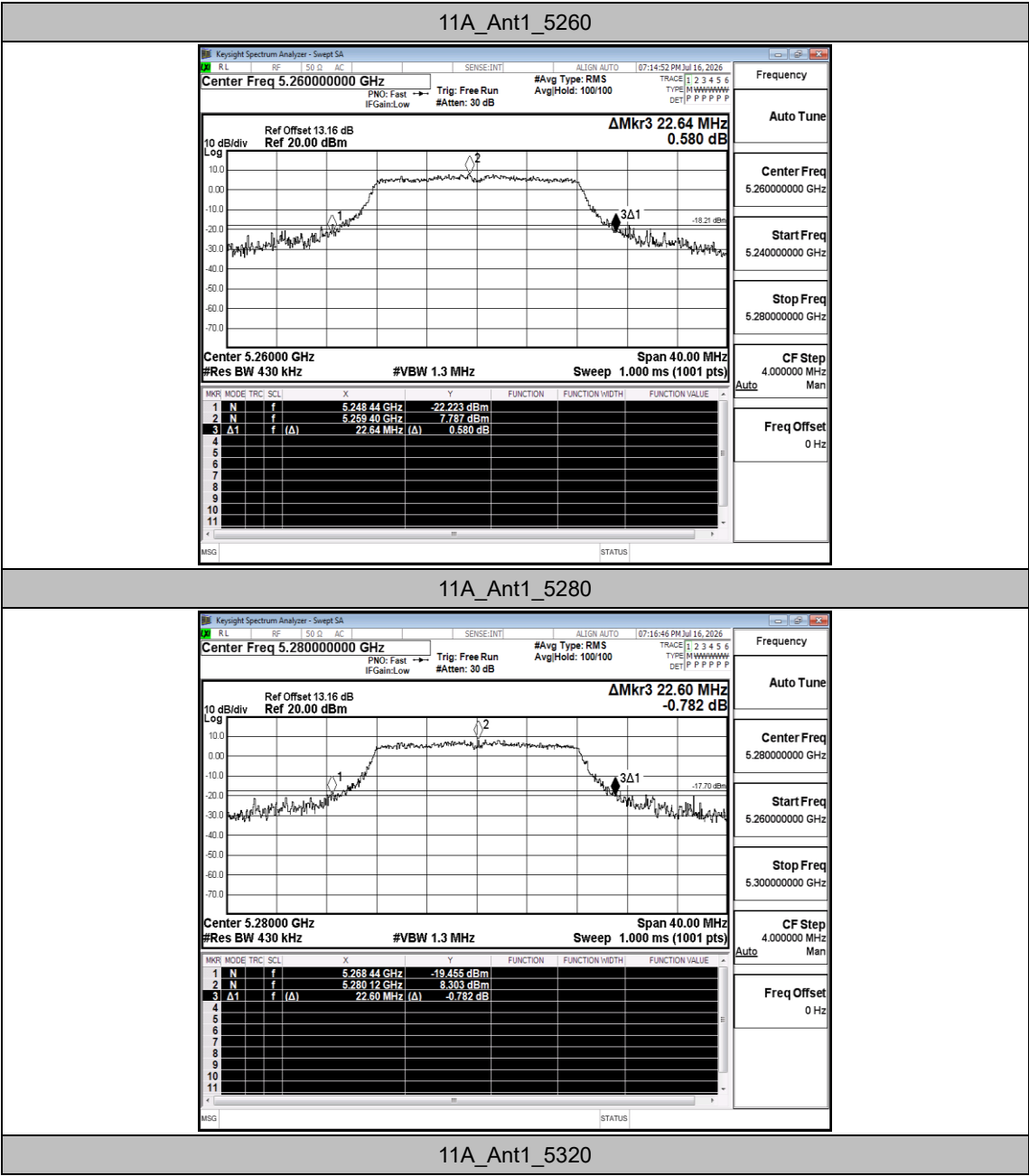
Temperature:	24.3°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

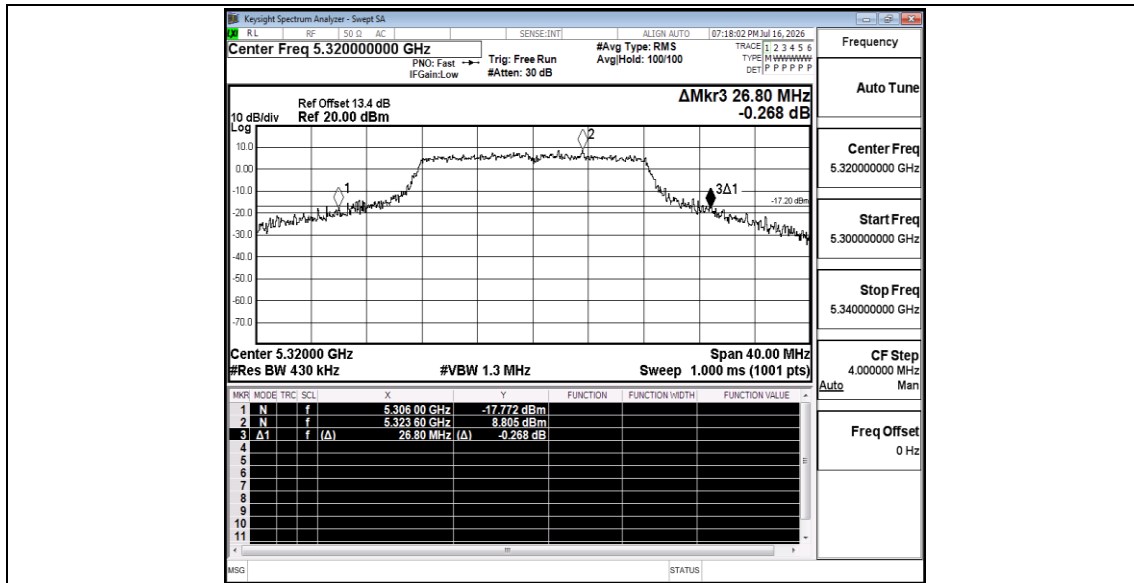
E.1 Emission Bandwidth

Test Result

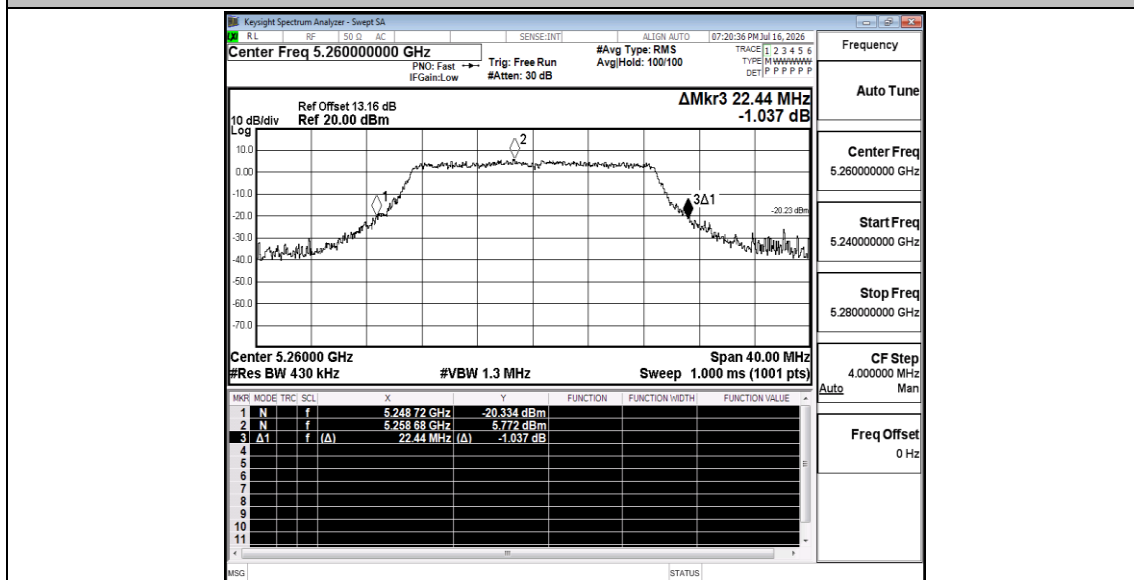
TestMode	Antenna	Freq (MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5260	22.640	5248.440	5271.080	---	---
		5280	22.600	5268.440	5291.040	---	---
		5320	26.800	5306.000	5332.800	---	---
11N20	Ant1	5260	22.440	5248.720	5271.160	---	---
		5280	24.480	5266.880	5291.360	---	---
		5320	29.080	5304.760	5333.840	---	---
11N40	Ant1	5270	44.000	5246.720	5290.720	---	---
		5310	56.880	5276.400	5333.280	---	---
11AC20	Ant1	5260	22.640	5248.720	5271.360	---	---
		5280	22.760	5268.720	5291.480	---	---
		5320	28.800	5304.640	5333.440	---	---
11AC40	Ant1	5270	41.440	5249.120	5290.560	---	---
		5310	55.520	5279.280	5334.800	---	---
11AC80	Ant1	5290	109.280	5227.120	5336.400	---	---
11AC160	Ant1	5250	168.640	5168.080	5336.720	---	---
11AX20	Ant1	5260	22.840	5248.400	5271.240	---	---
		5280	24.560	5269.000	5293.560	---	---
		5320	26.600	5306.320	5332.920	---	---
11AX40	Ant1	5270	40.240	5249.920	5290.160	---	---
		5310	47.040	5284.080	5331.120	---	---
11AX80	Ant1	5290	86.240	5244.720	5330.960	---	---
11AX160	Ant1	5250	166.720	5167.120	5333.840	---	---

Test Graphs

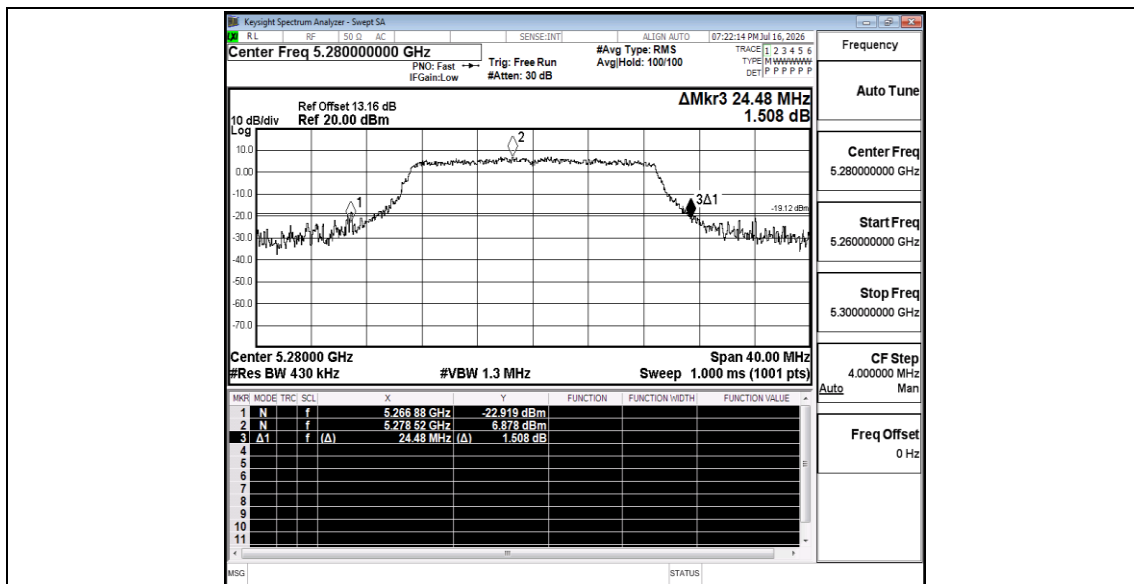




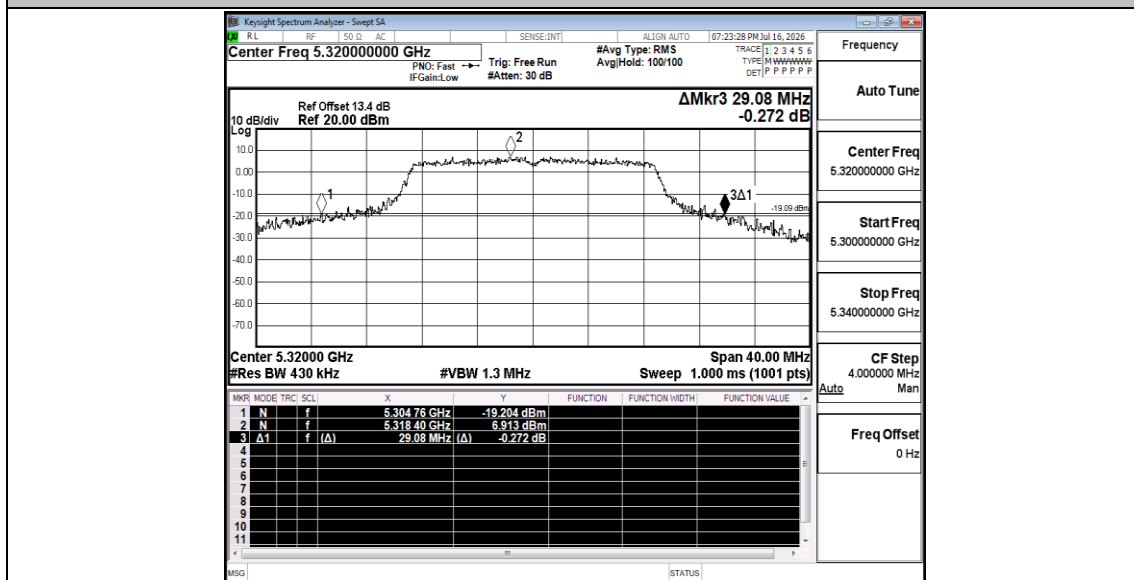
11N20_Ant1_5260



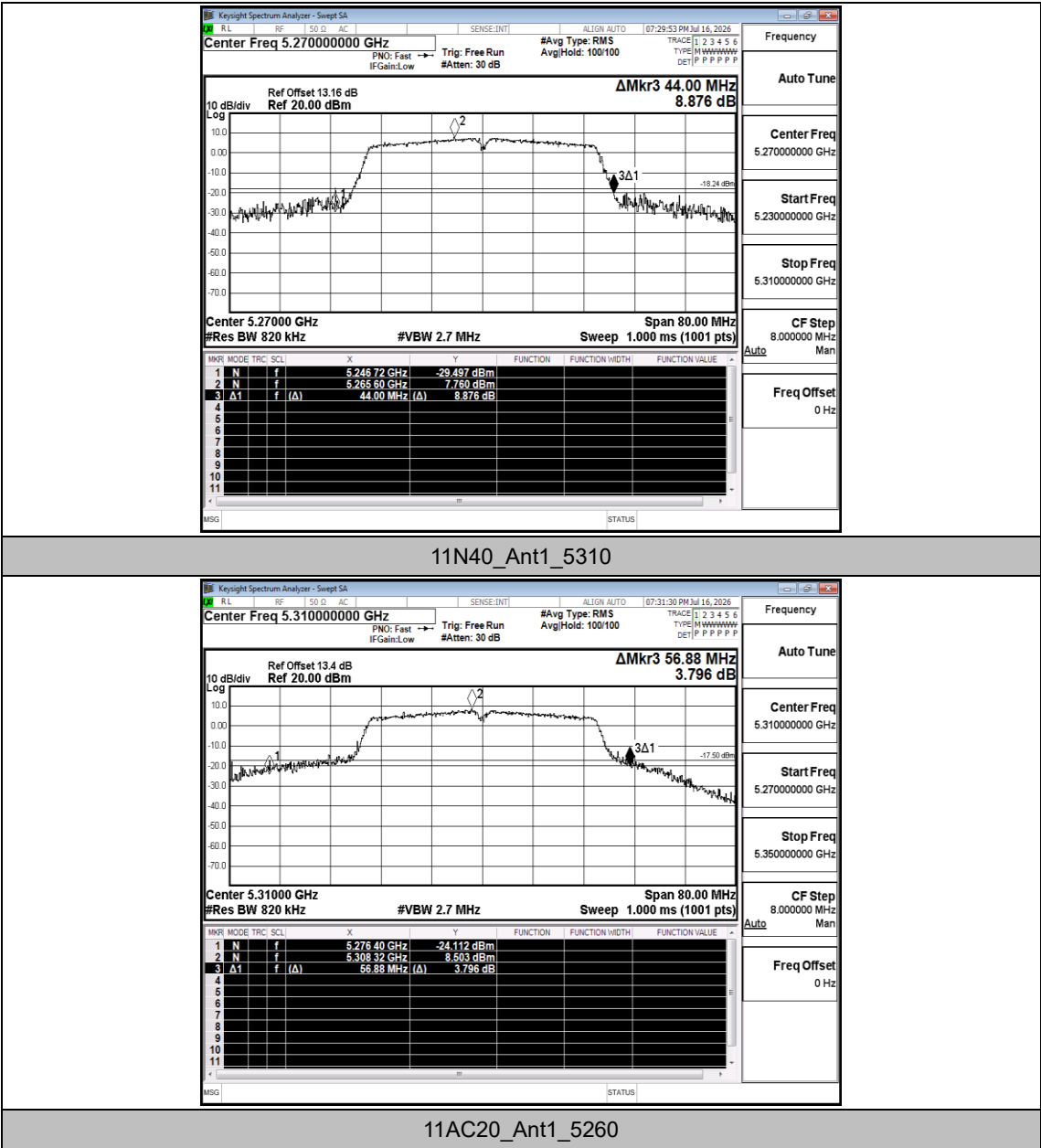
11N20_Ant1_5280

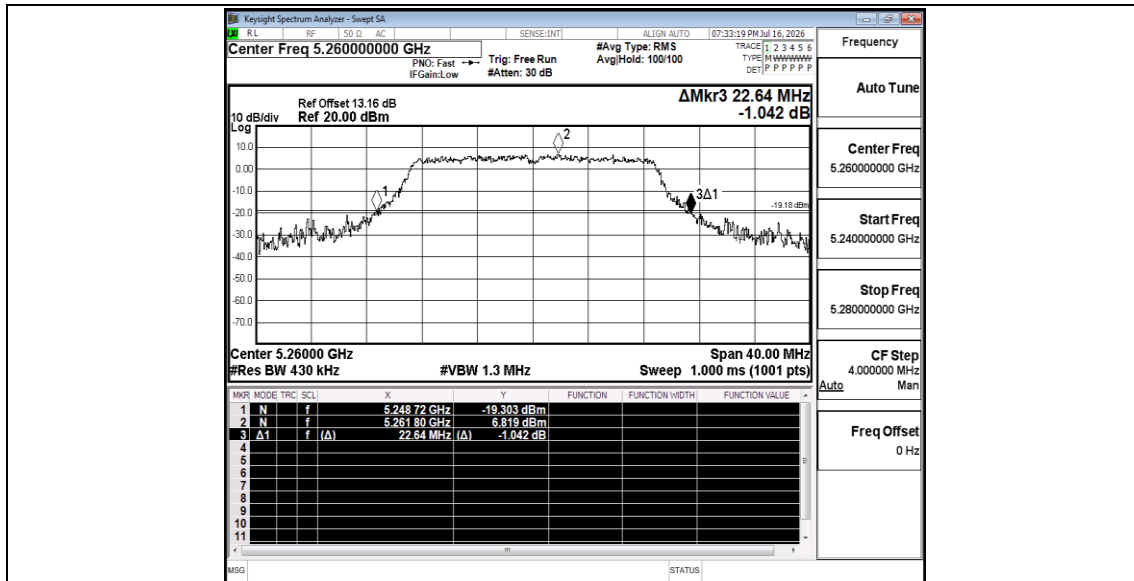


11N20 Ant1 5320

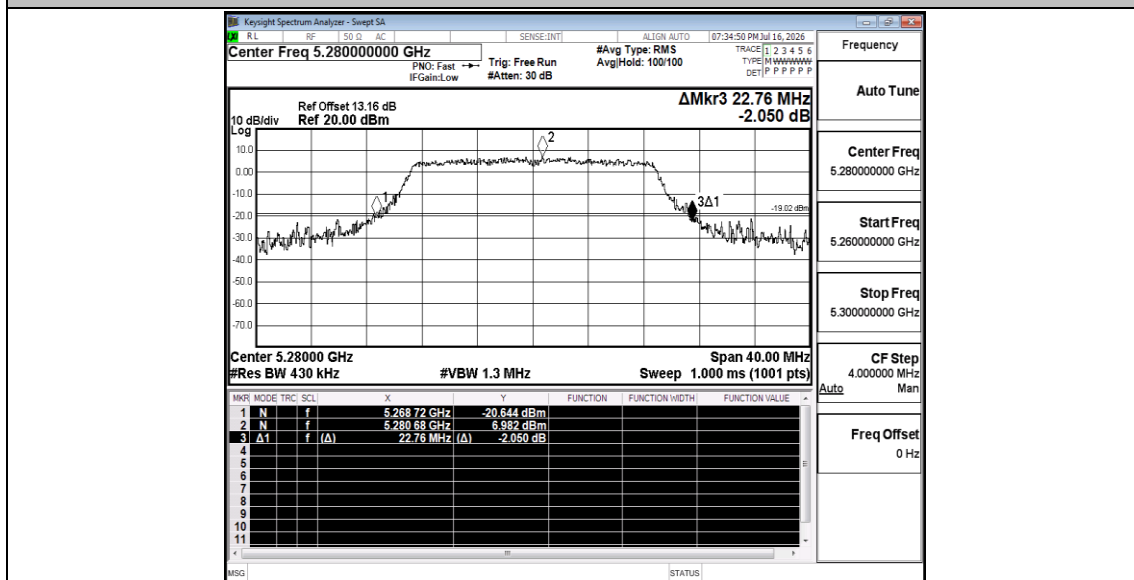


11N40 Ant1 5270

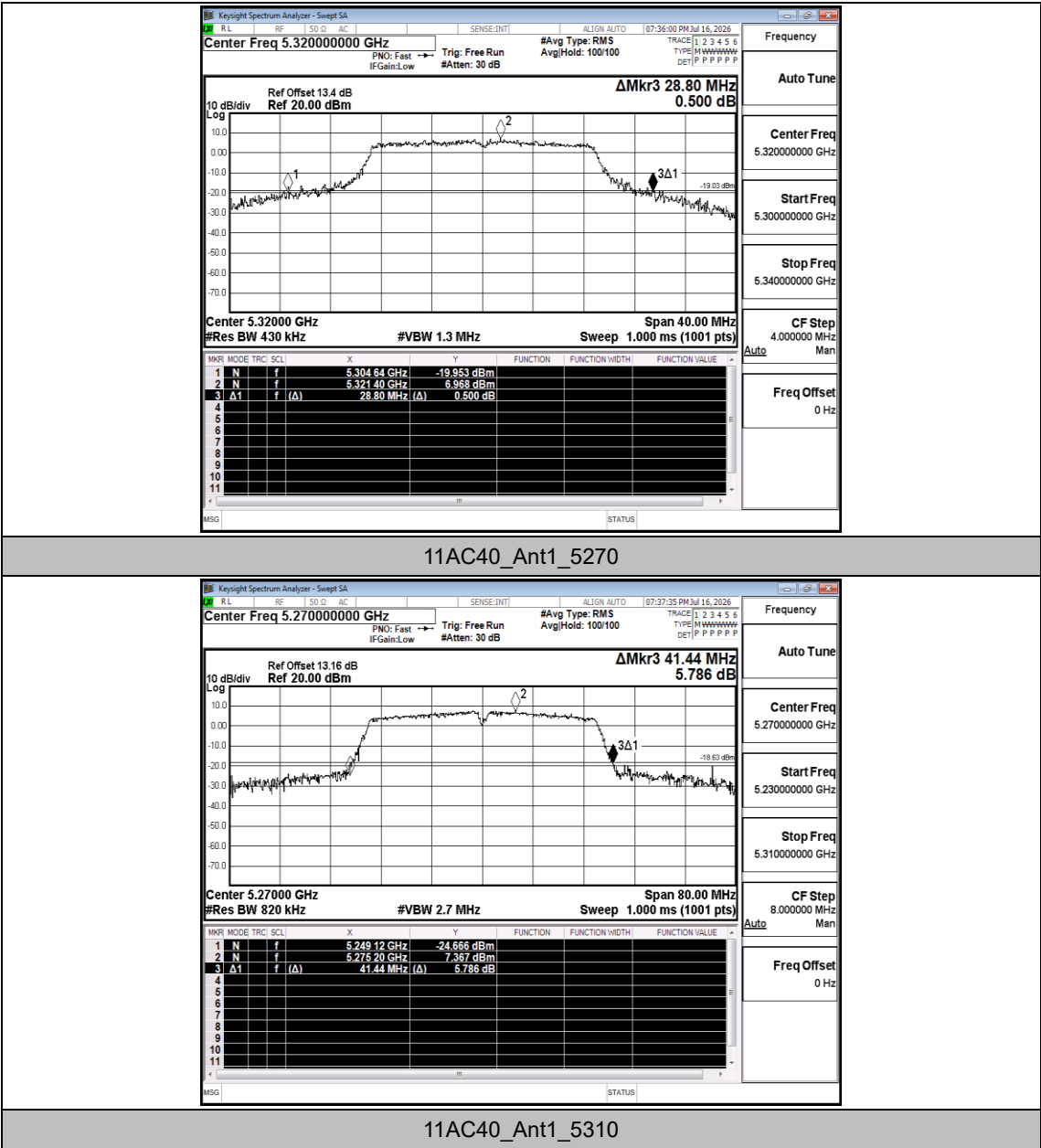


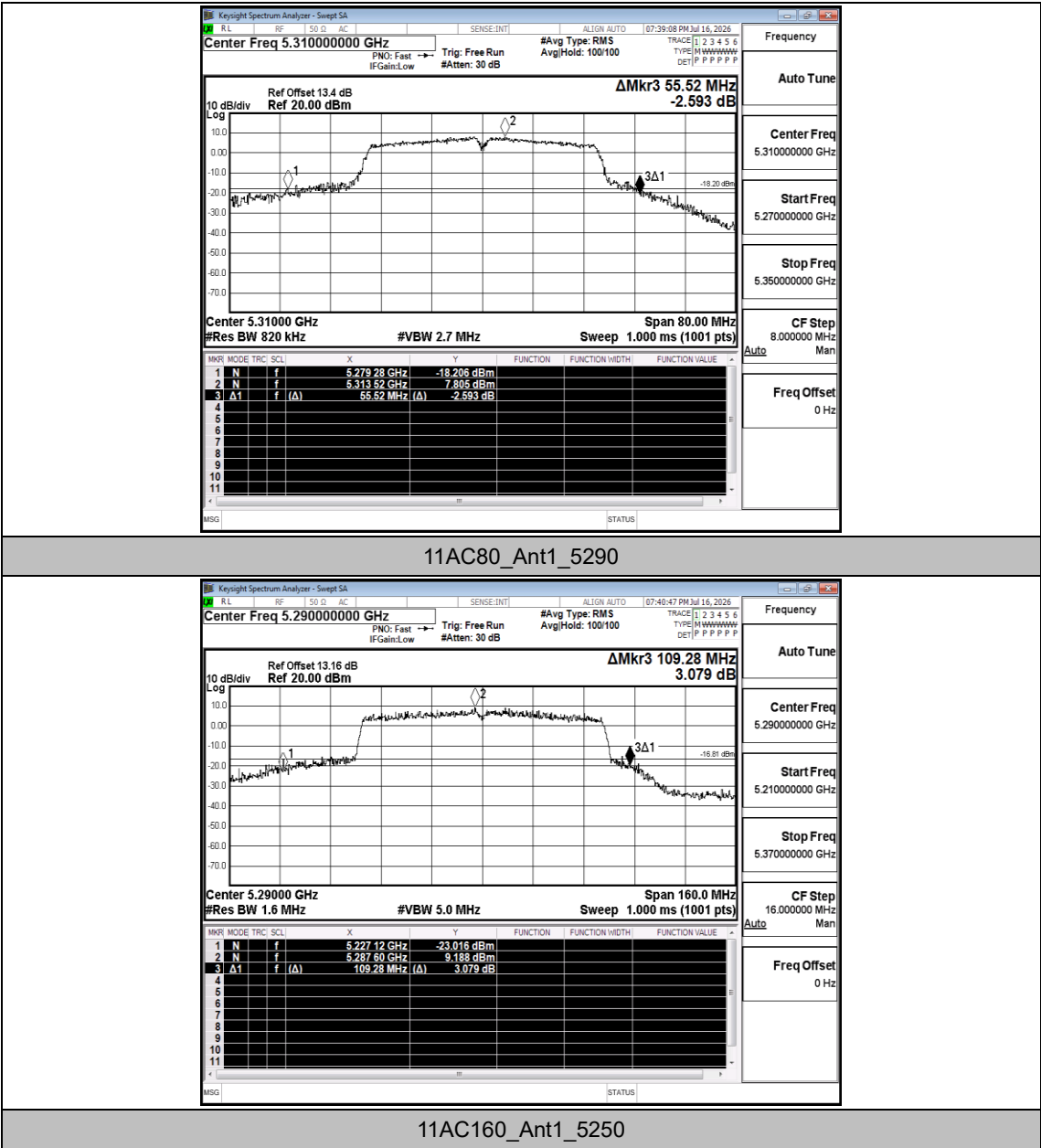


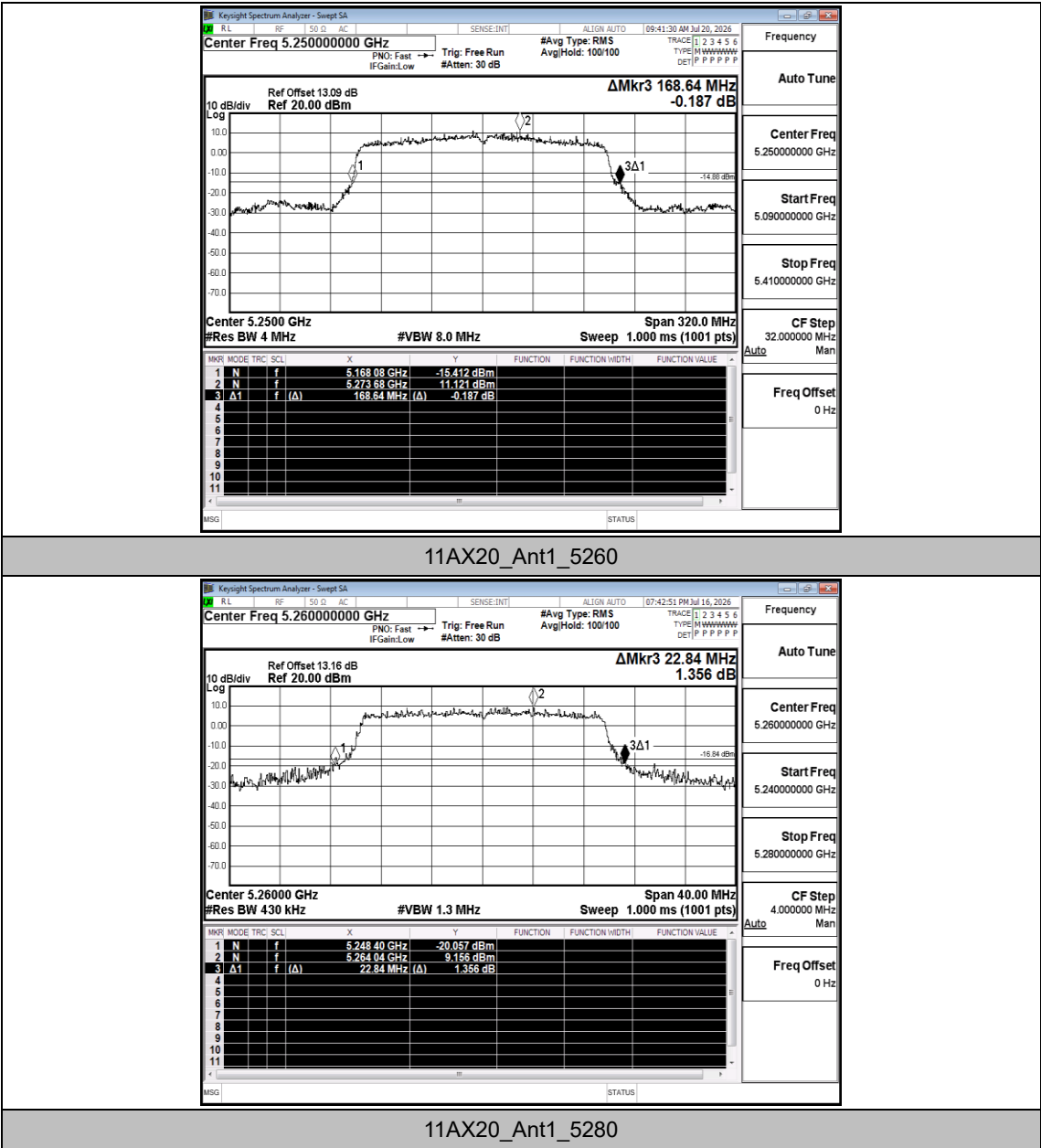
11AC20_Ant1_5280

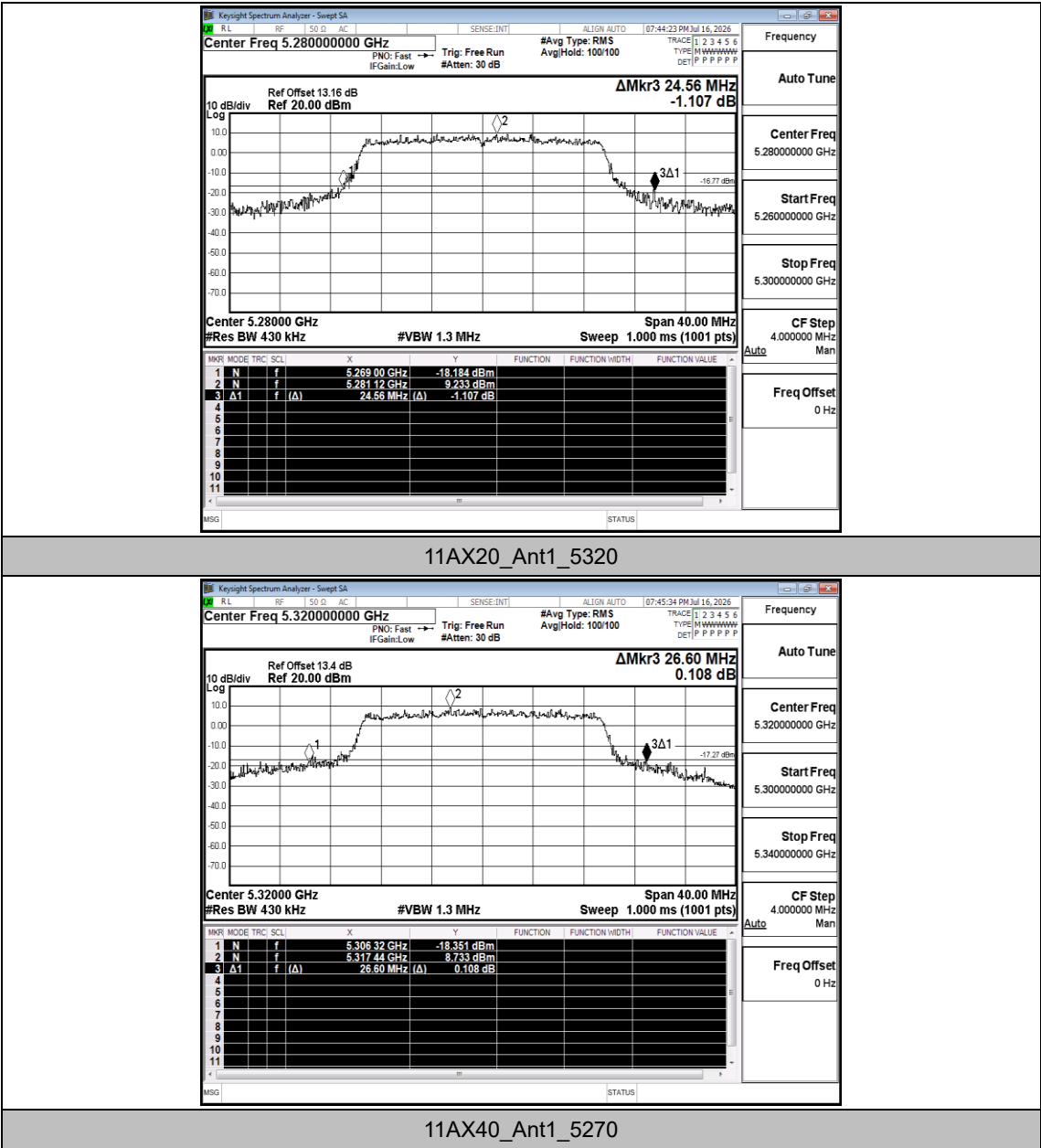


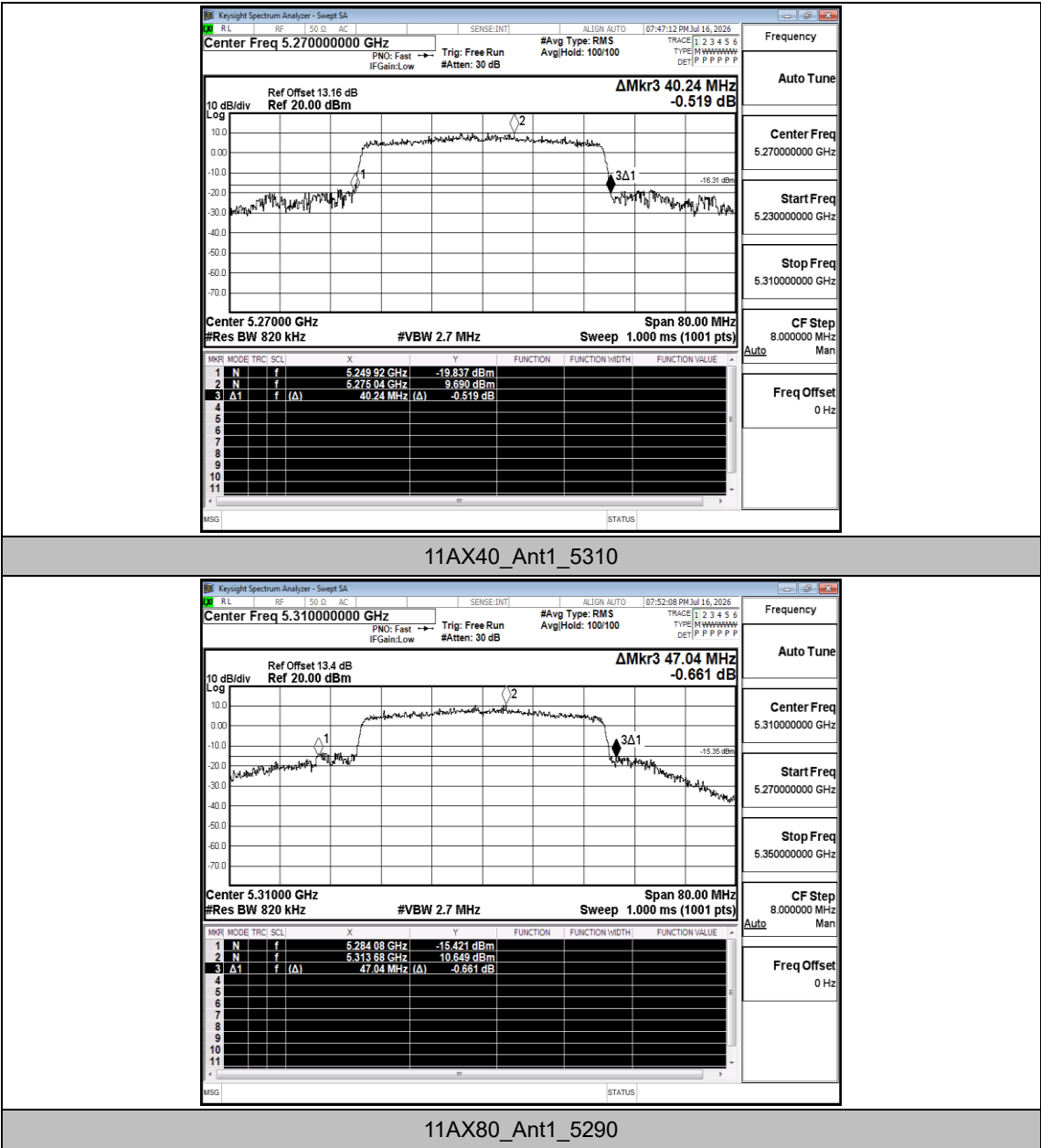
11AC20 Ant1 5320

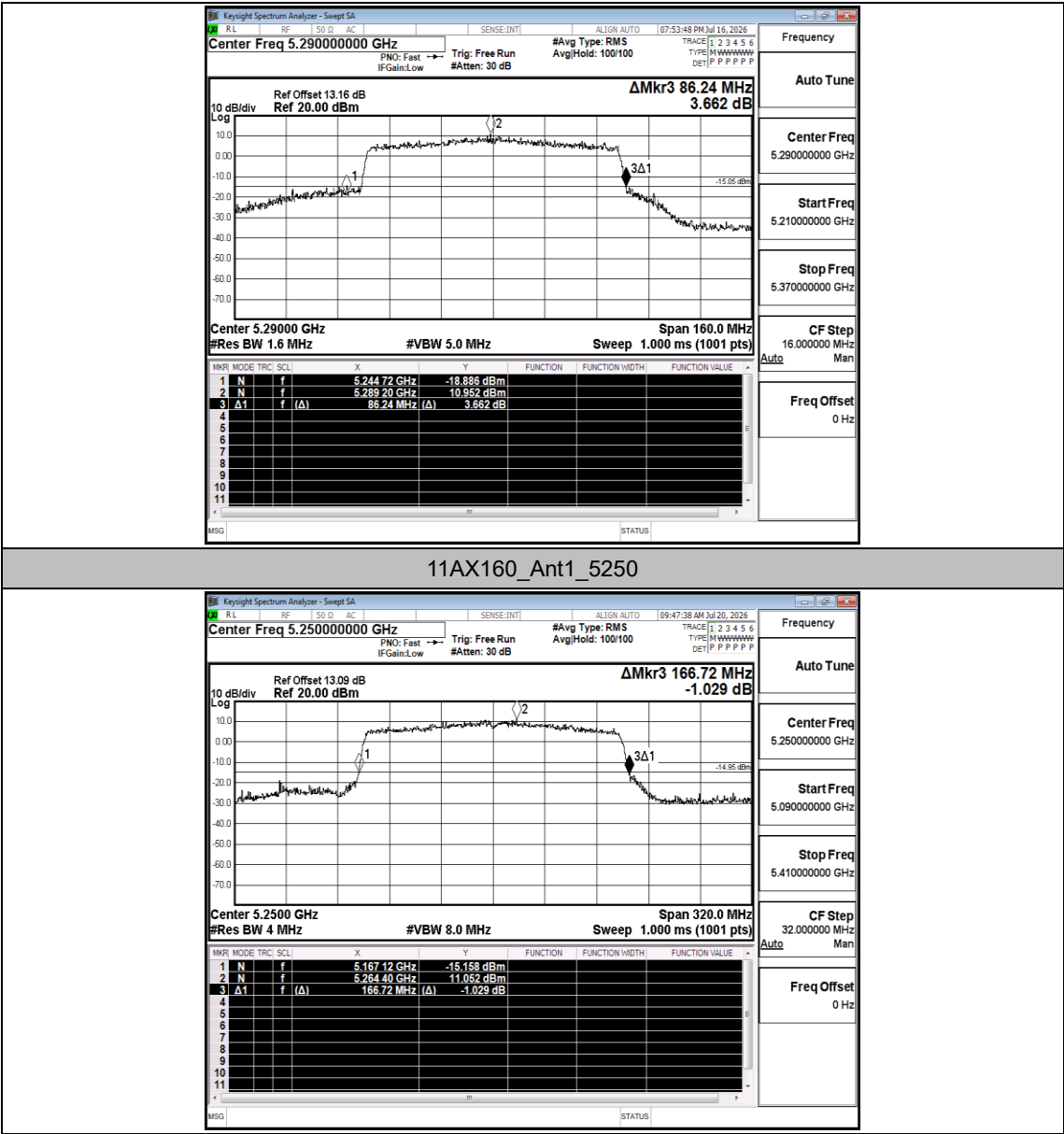












E.2 Maximum conducted output power

Test Result

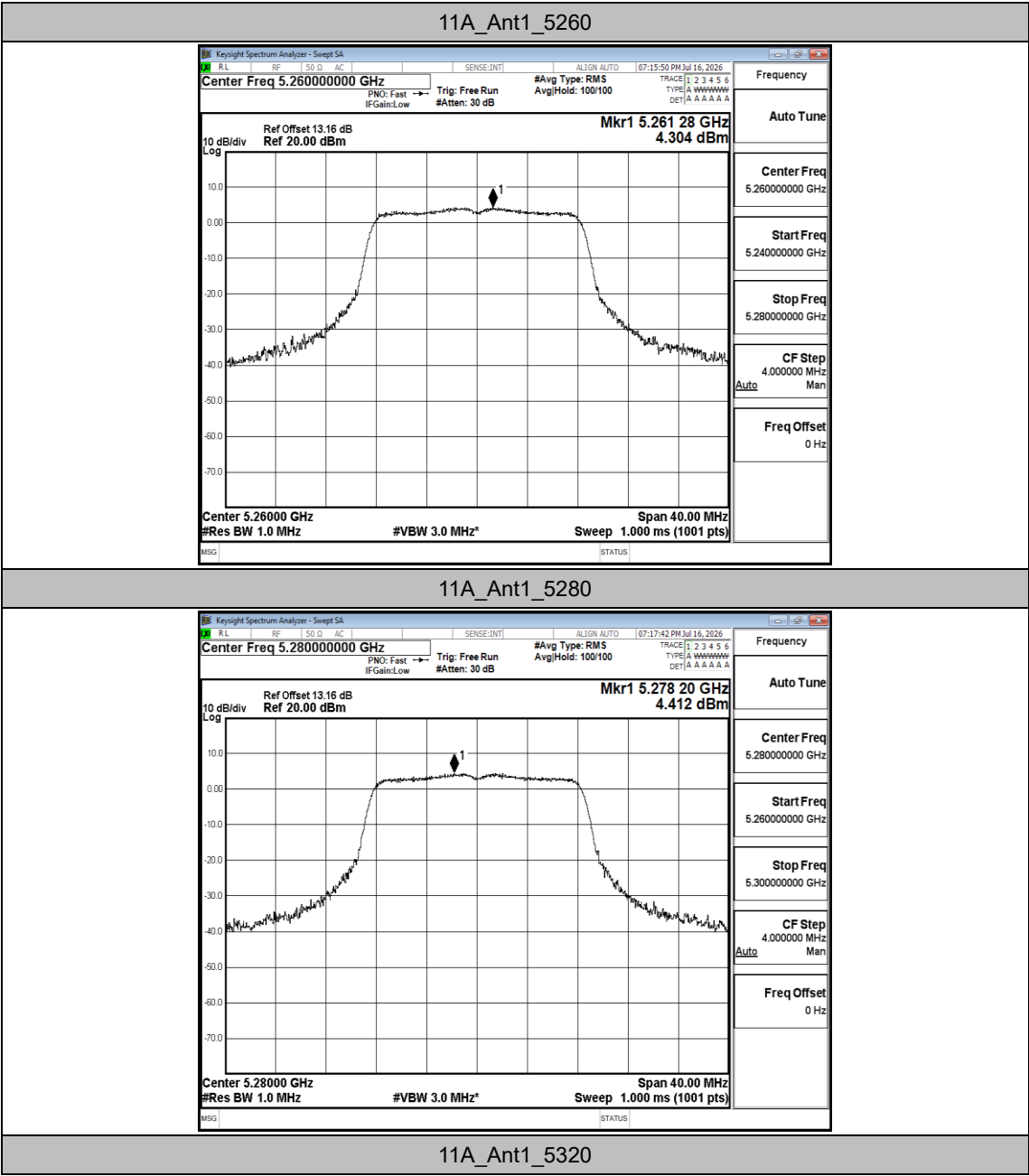
TestMode	Antenna	Freq (MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5260	NA	15.65	0.15	15.80	≤23.98	PASS
		5280	NA	15.82	0.15	15.97	≤23.98	PASS
		5320	NA	15.75	0.18	15.93	≤23.98	PASS
11N20	Ant1	5260	NA	14.15	0.20	14.35	≤23.98	PASS
		5280	NA	15.24	0.20	15.44	≤23.98	PASS
		5320	NA	15.17	0.20	15.37	≤23.98	PASS
11N40	Ant1	5270	NA	14.91	0.38	15.29	≤23.98	PASS
		5310	NA	15.31	0.32	15.63	≤23.98	PASS
11AC20	Ant1	5260	NA	14.91	0.51	15.42	≤23.98	PASS
		5280	NA	15.06	0.51	15.57	≤23.98	PASS
		5320	NA	15.01	0.51	15.52	≤23.98	PASS
11AC40	Ant1	5270	NA	14.48	0.90	15.38	≤23.98	PASS
		5310	NA	14.73	0.90	15.63	≤23.98	PASS
11AC80	Ant1	5290	NA	13.62	1.25	14.87	≤23.98	PASS
11AC160	Ant1	5250	NA	13.17	2.04	15.21	≤23.98	PASS
11AX20	Ant1	5260	NA	15.58	0.57	16.15	≤23.98	PASS
		5280	NA	15.69	0.57	16.26	≤23.98	PASS
		5320	NA	15.15	0.57	15.72	≤23.98	PASS
11AX40	Ant1	5270	NA	15.08	0.58	15.66	≤23.98	PASS
		5310	NA	15.34	0.48	15.82	≤23.98	PASS
11AX80	Ant1	5290	NA	14.69	0.59	15.28	≤23.98	PASS
11AX160	Ant1	5250	NA	14.89	0.50	15.39	≤23.98	PASS

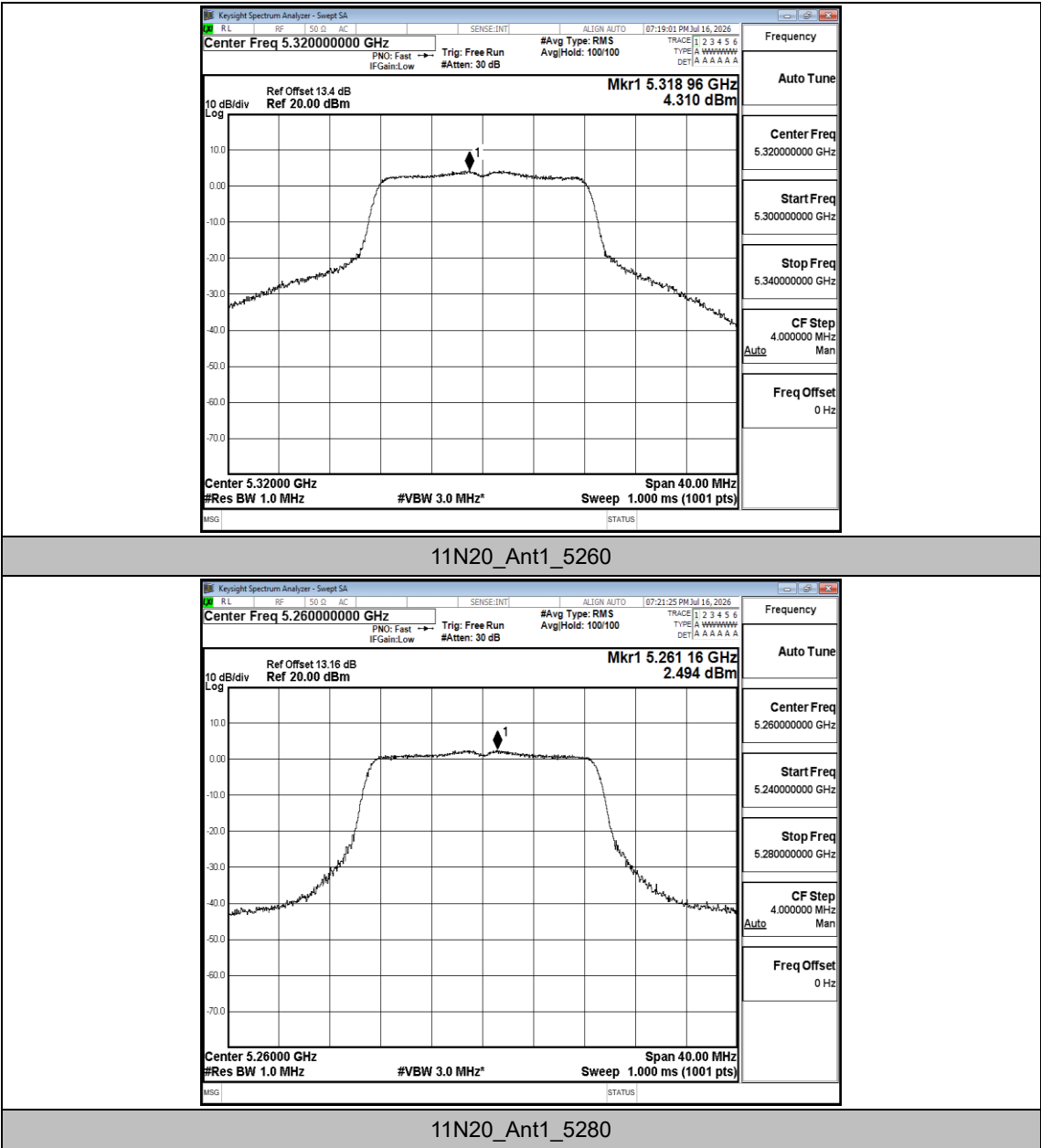
E.3 Maximum power spectral density

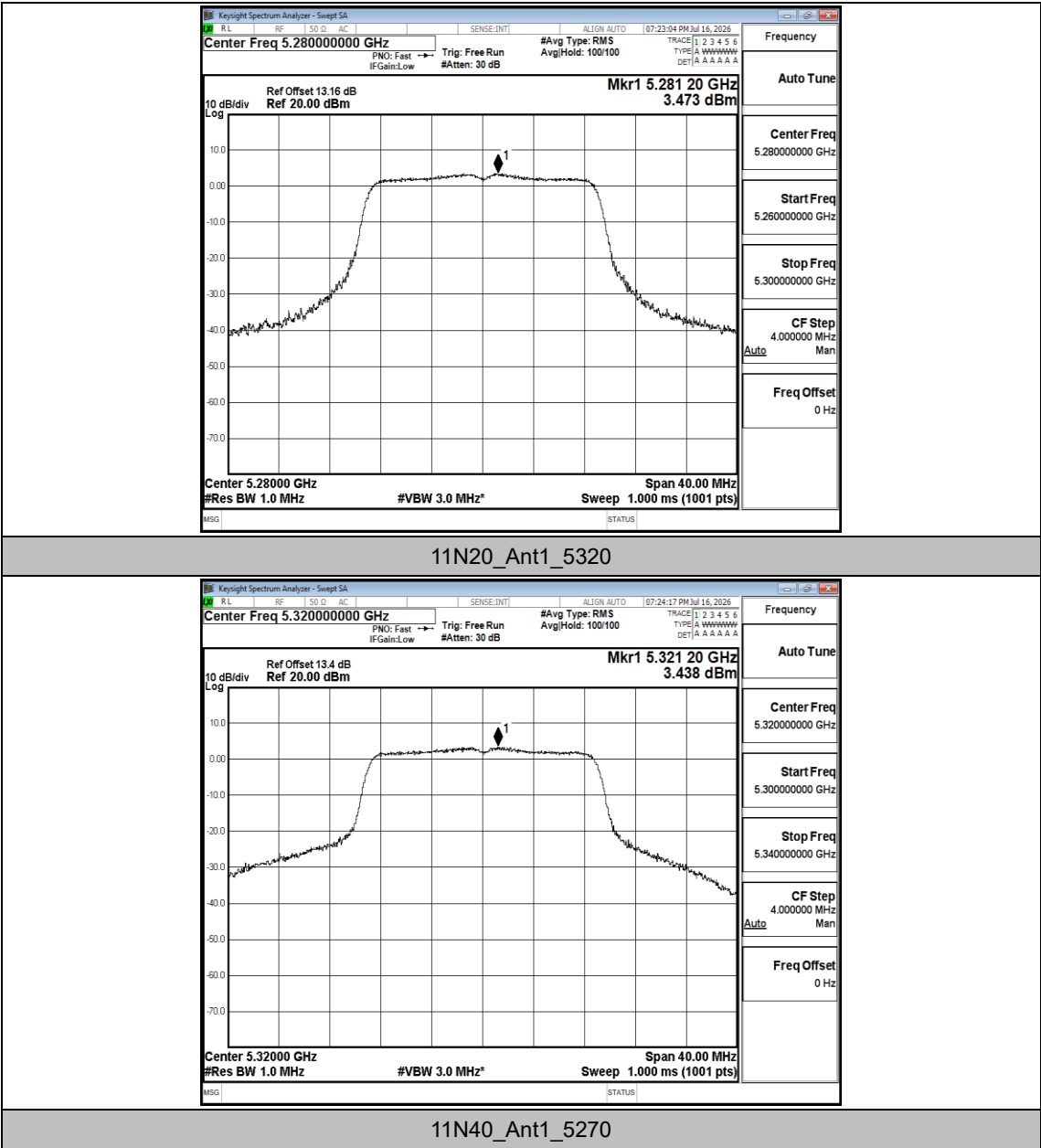
Test Result

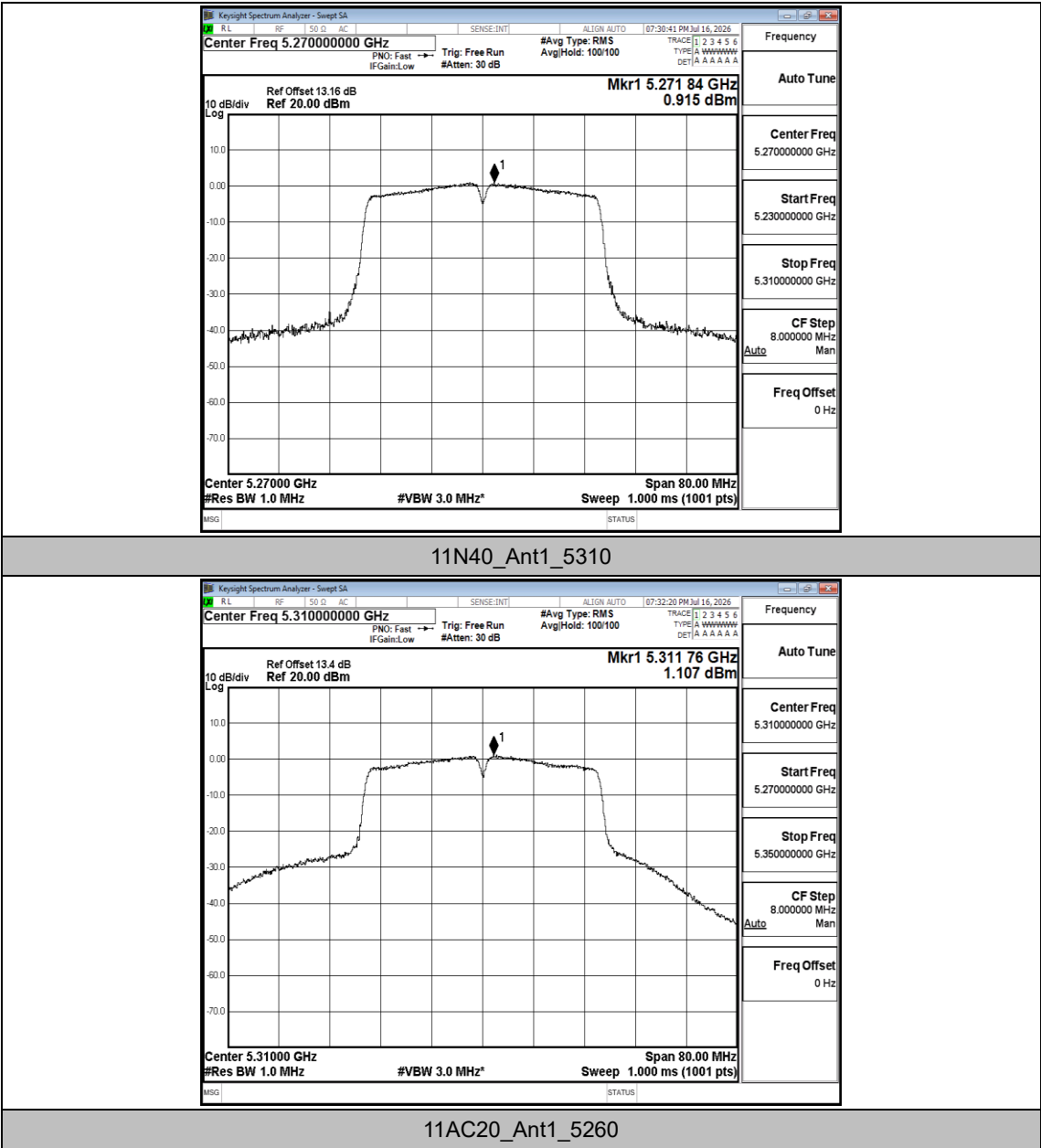
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5260	4.3	0.15	4.45	≤11.00	PASS
		5280	4.41	0.15	4.56	≤11.00	PASS
		5320	4.31	0.18	4.49	≤11.00	PASS
11N20	Ant1	5260	2.49	0.20	2.69	≤11.00	PASS
		5280	3.47	0.20	3.67	≤11.00	PASS
		5320	3.44	0.20	3.64	≤11.00	PASS
11N40	Ant1	5270	0.92	0.38	1.30	≤11.00	PASS
		5310	1.11	0.32	1.43	≤11.00	PASS
11AC20	Ant1	5260	3	0.51	3.51	≤11.00	PASS
		5280	3.1	0.51	3.61	≤11.00	PASS
		5320	3.36	0.51	3.87	≤11.00	PASS
11AC40	Ant1	5270	0.41	0.90	1.31	≤11.00	PASS
		5310	1.24	0.90	2.14	≤11.00	PASS
11AC80	Ant1	5290	-3.13	1.25	-1.88	≤11.00	PASS
11AC160	Ant1	5250	-6.35	2.04	-4.31	≤11.00	PASS
11AX20	Ant1	5260	3.42	0.57	3.99	≤11.00	PASS
		5280	3.89	0.57	4.46	≤11.00	PASS
		5320	3.18	0.57	3.75	≤11.00	PASS
11AX40	Ant1	5270	0.99	0.58	1.57	≤11.00	PASS
		5310	1.29	0.48	1.77	≤11.00	PASS
11AX80	Ant1	5290	-1.99	0.59	-1.40	≤11.00	PASS
11AX160	Ant1	5250	-5.39	0.50	-4.89	≤11.00	PASS

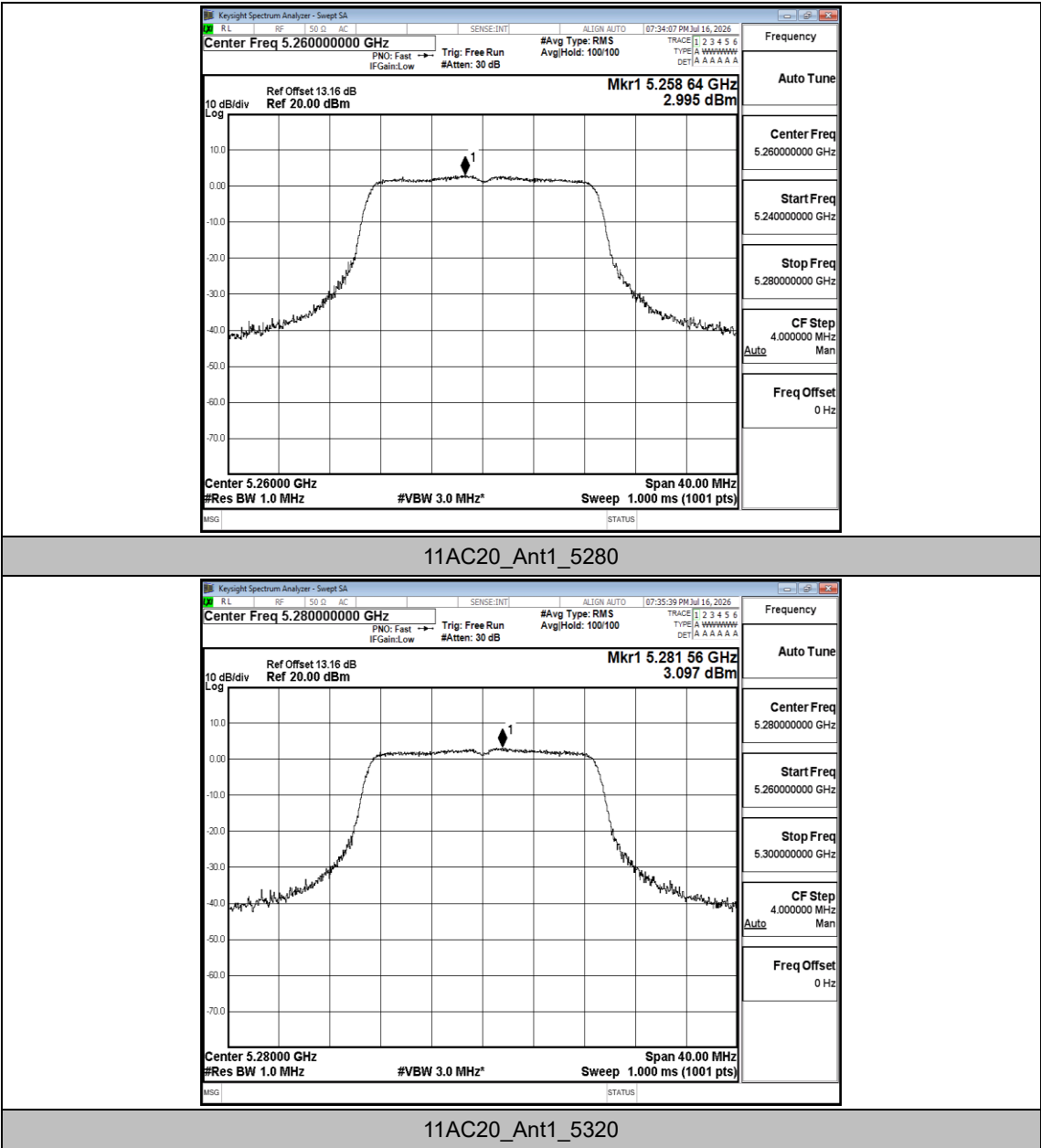
Test Graphs

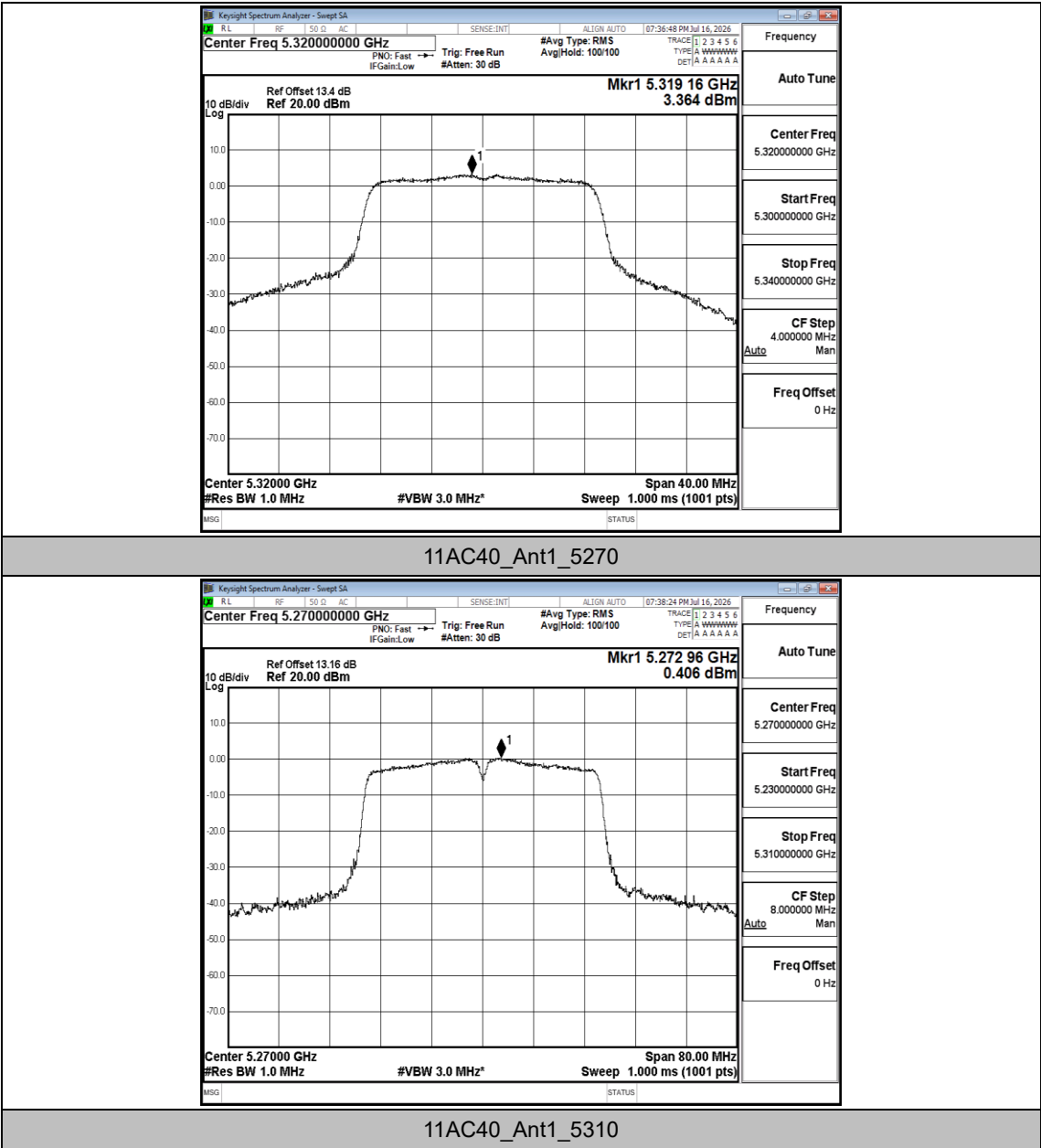


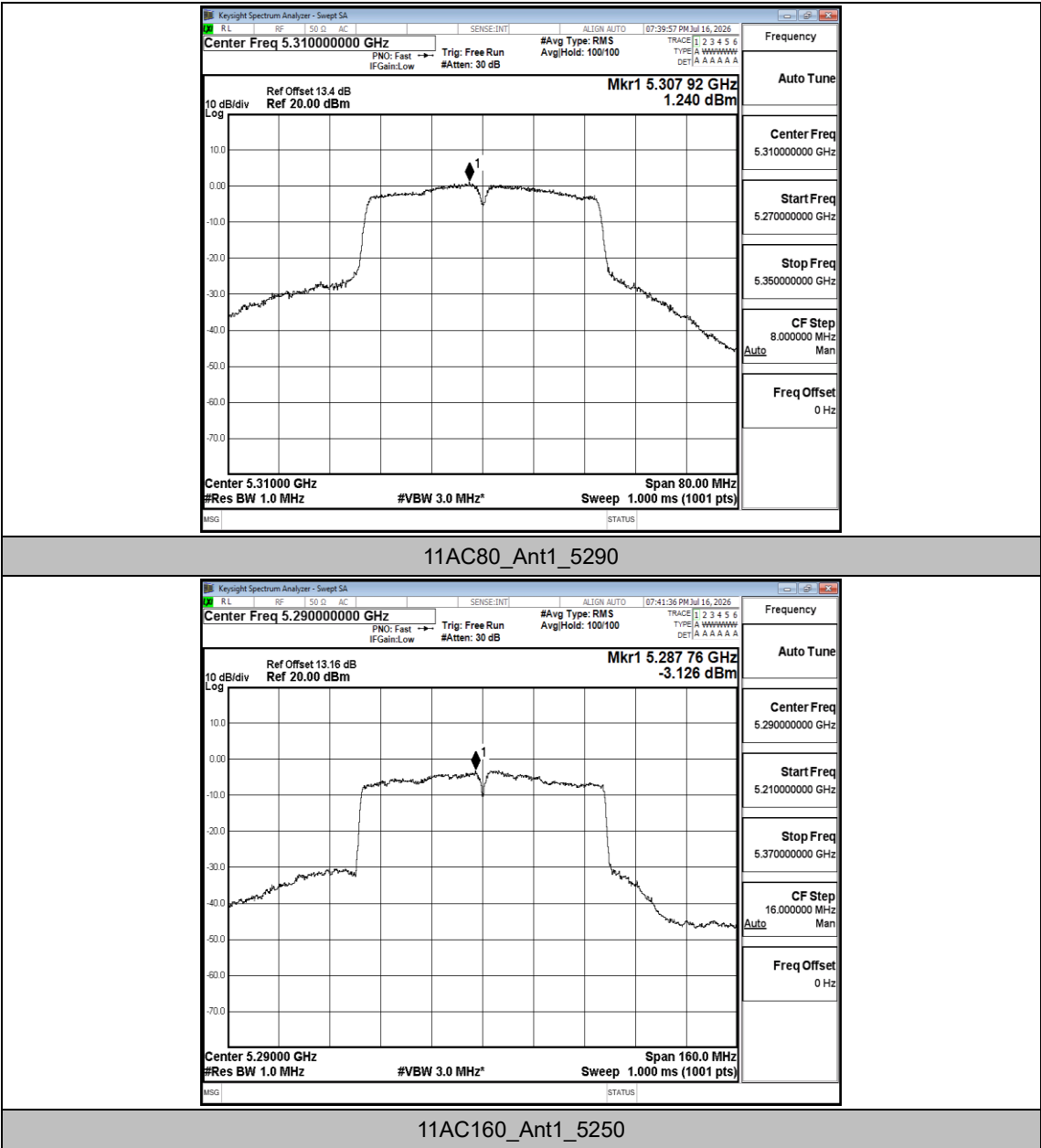


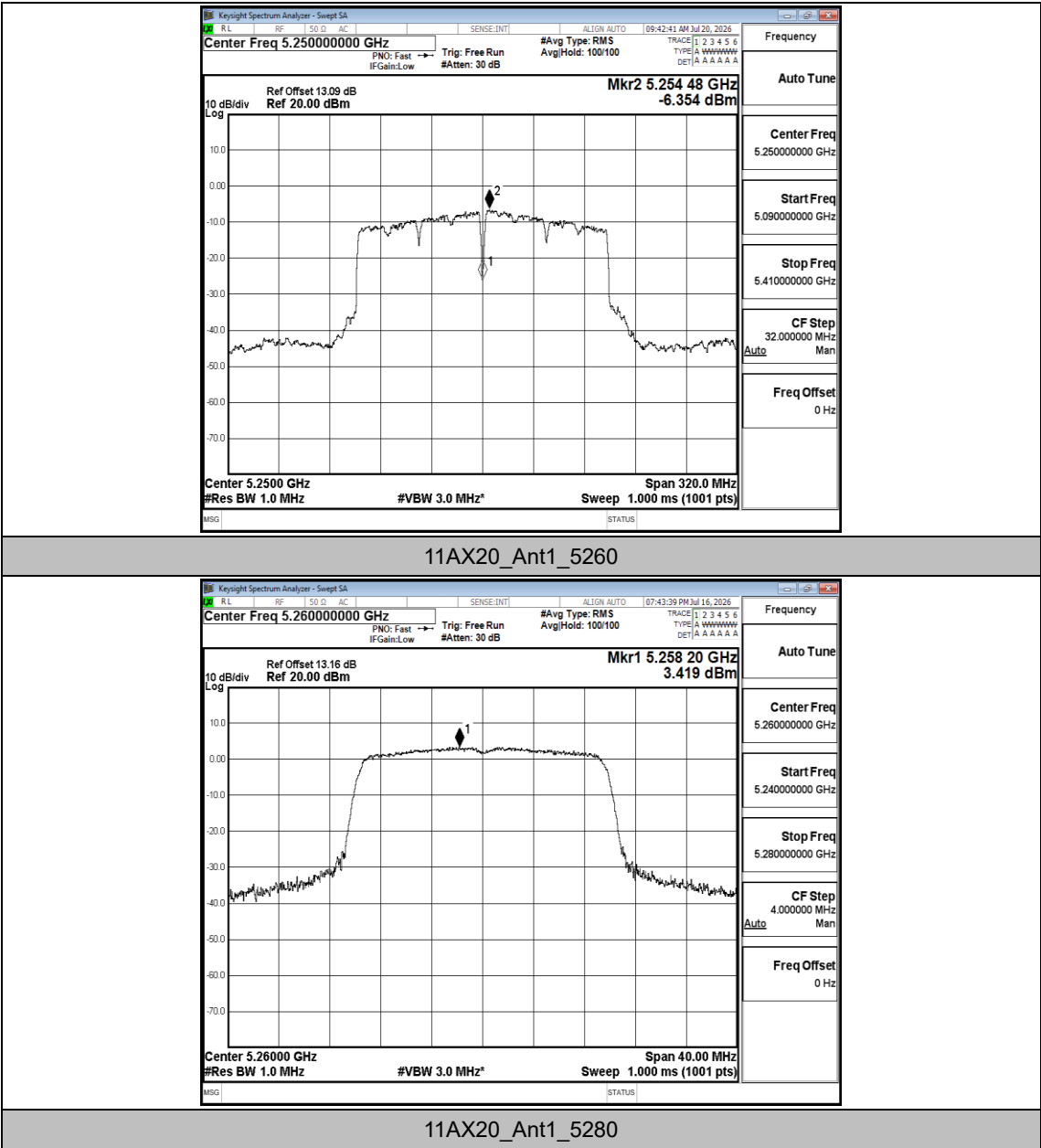


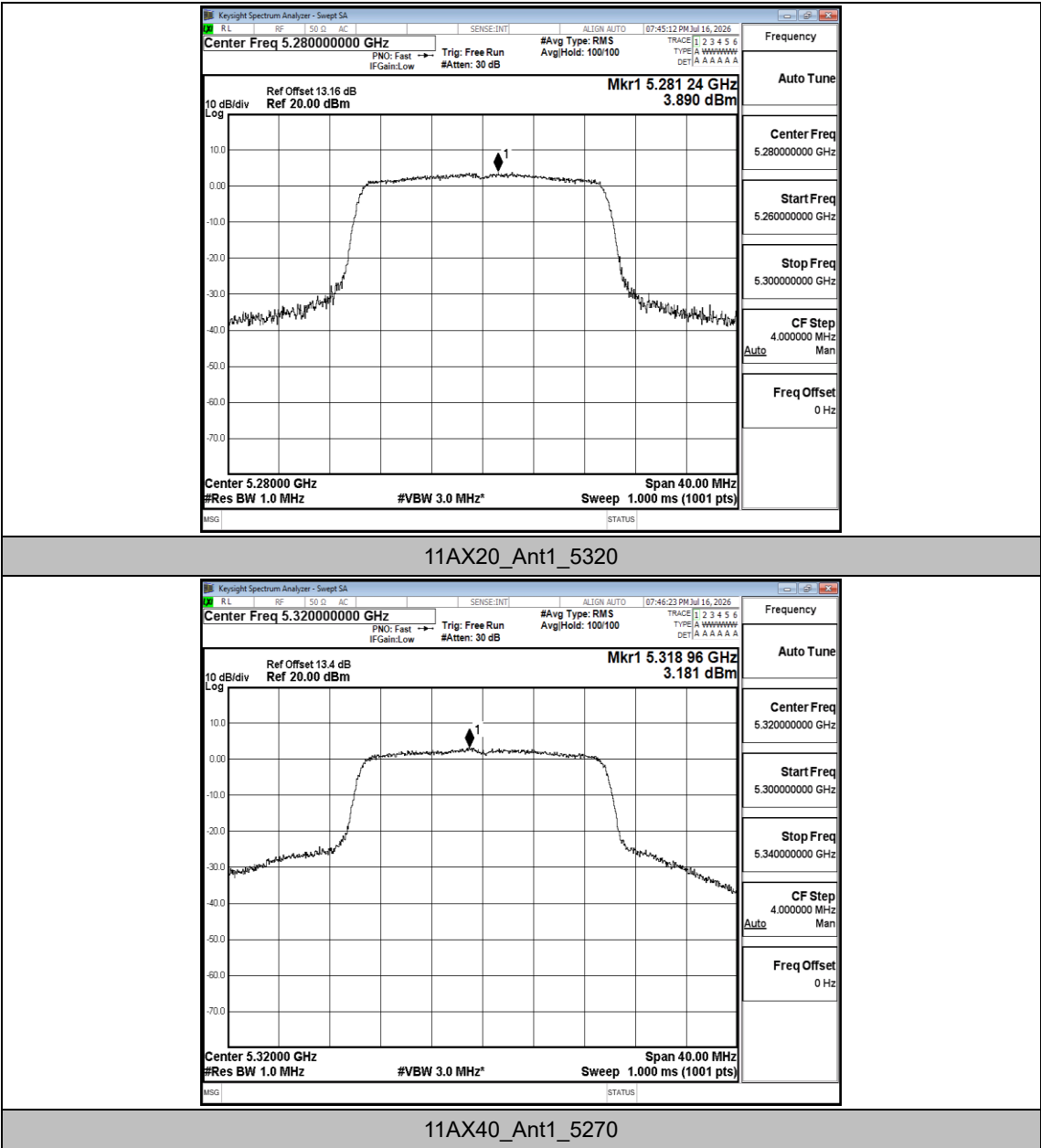


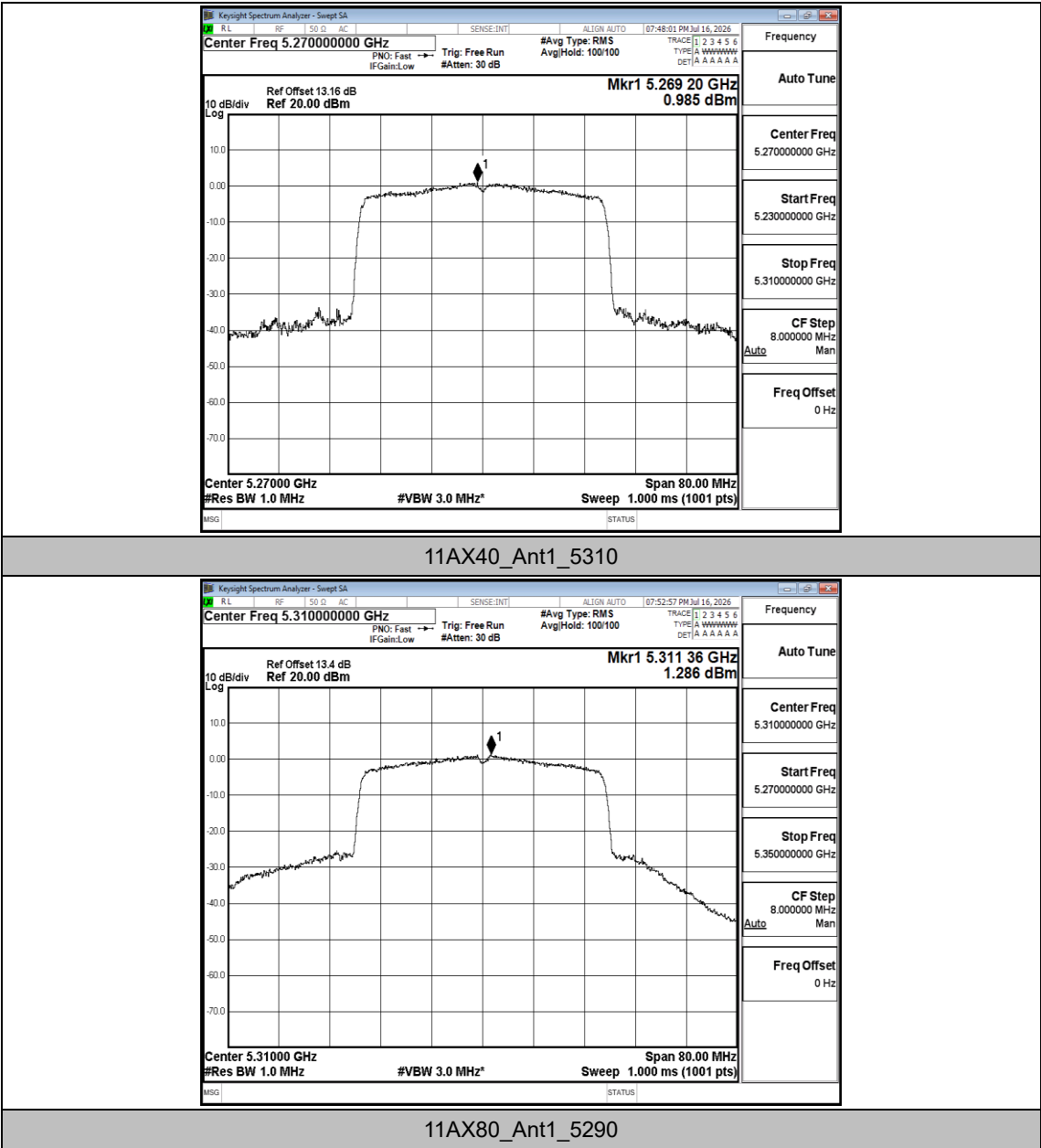


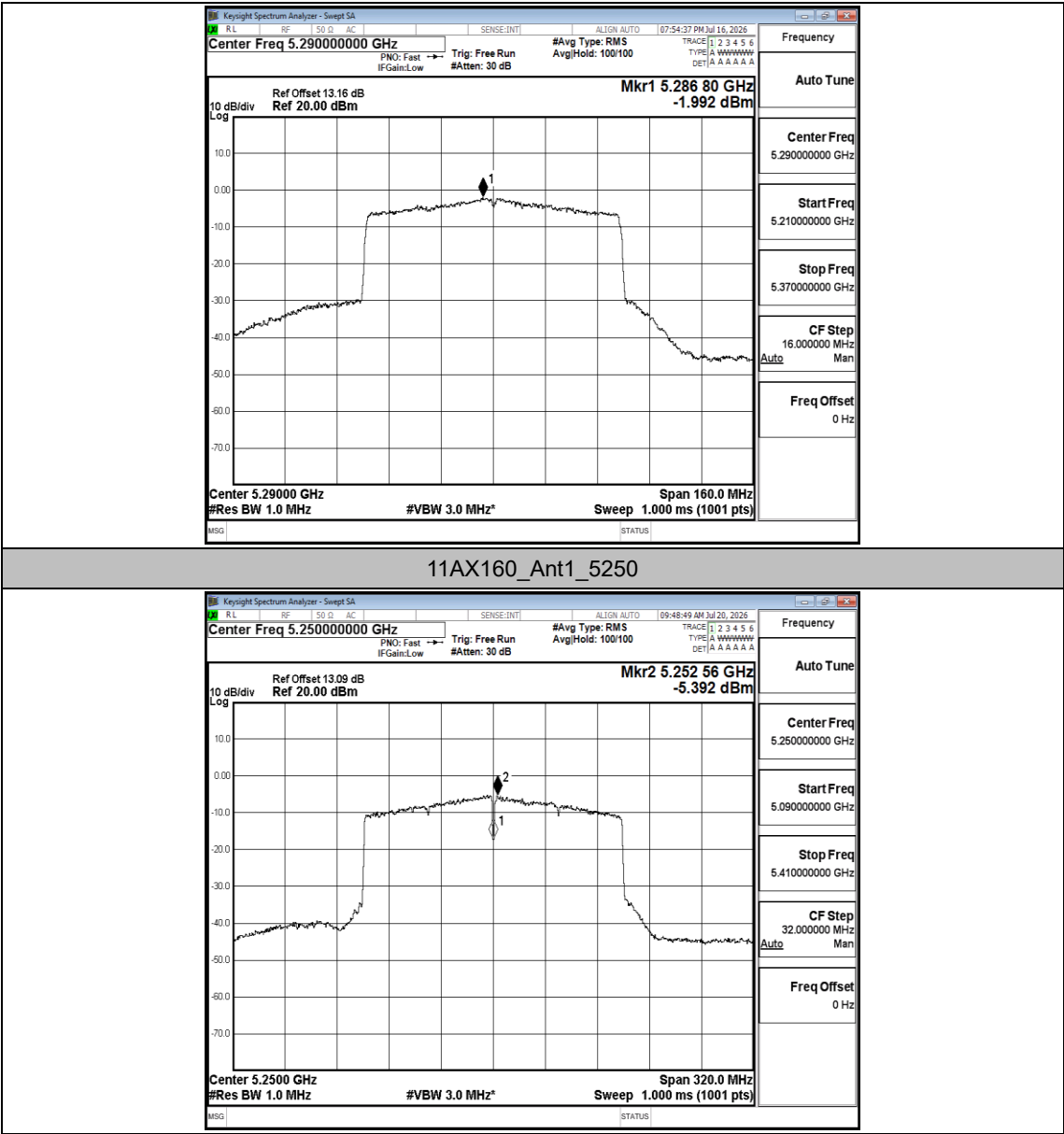












E.4 Emissions in Restricted Bands

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	-61.88	≤-45.17	4.21	0.15	37.68	≤54	PASS
				AV	5104.350	-56.5	≤-45.17	4.21	0.15	43.06	≤54	PASS
				AV	5150.000	-56.87	≤-45.17	4.21	0.15	42.69	≤54	PASS
				Peak	4500.000	-53.96	≤-30.82	4.21	0.00	45.45	≤68.2	PASS
				Peak	5122.520	-46.77	≤-30.82	4.21	0.00	52.64	≤68.2	PASS
				Peak	5150.000	-49.23	≤-30.82	4.21	0.00	50.18	≤68.2	PASS
		High	5320	AV	5350.000	-57.25	≤-45.20	4.21	0.18	42.34	≤54	PASS
				AV	5350.880	-56.71	≤-45.20	4.21	0.18	42.88	≤54	PASS
				AV	5460.000	-60.34	≤-45.20	4.21	0.18	39.25	≤54	PASS
				Peak	5350.000	-48.6	≤-30.82	4.21	0.00	50.81	≤68.2	PASS
				Peak	5359.840	-46.83	≤-30.82	4.21	0.00	52.58	≤68.2	PASS
				Peak	5460.000	-51.6	≤-30.82	4.21	0.00	47.81	≤68.2	PASS
11N20	Ant1	Low	5260	AV	4500.000	-61.94	≤-45.22	4.21	0.20	37.67	≤54	PASS
				AV	5139.110	-57.31	≤-45.22	4.21	0.20	42.30	≤54	PASS
				AV	5150.000	-58.11	≤-45.22	4.21	0.20	41.50	≤54	PASS
				Peak	4500.000	-53.4	≤-30.82	4.21	0.00	46.01	≤68.2	PASS
				Peak	5100.400	-47.05	≤-30.82	4.21	0.00	52.36	≤68.2	PASS
				Peak	5150.000	-51.1	≤-30.82	4.21	0.00	48.31	≤68.2	PASS
		High	5320	AV	5350.000	-57.68	≤-45.22	4.21	0.20	41.93	≤54	PASS
				AV	5352.000	-57.44	≤-45.22	4.21	0.20	42.17	≤54	PASS
				AV	5460.000	-60.13	≤-45.22	4.21	0.20	39.48	≤54	PASS
				Peak	5350.000	-48.23	≤-30.82	4.21	0.00	51.18	≤68.2	PASS
				Peak	5370.400	-47.8	≤-30.82	4.21	0.00	51.61	≤68.2	PASS
				Peak	5460.000	-51.4	≤-30.82	4.21	0.00	48.01	≤68.2	PASS
11N40	Ant1	Low	5270	AV	4500.000	-62.31	≤-45.40	4.21	0.38	37.48	≤54	PASS
				AV	5133.580	-57.14	≤-45.40	4.21	0.38	42.65	≤54	PASS
				AV	5150.000	-57.23	≤-45.40	4.21	0.38	42.56	≤54	PASS
				Peak	4500.000	-54.4	≤-30.82	4.21	0.00	45.01	≤68.2	PASS
				Peak	5104.350	-47.33	≤-30.82	4.21	0.00	52.08	≤68.2	PASS
				Peak	5150.000	-49.11	≤-30.82	4.21	0.00	50.30	≤68.2	PASS
		High	5310	AV	5350.000	-48.79	≤-45.34	4.21	0.32	50.94	≤54	PASS
				AV	5350.080	-48.79	≤-45.34	4.21	0.32	50.94	≤54	PASS
				AV	5460.000	-58.81	≤-45.34	4.21	0.32	40.92	≤54	PASS
				Peak	5350.000	-41.03	≤-30.82	4.21	0.00	58.38	≤68.2	PASS

				Peak	5350.720	-36.55	≤-30.82	4.21	0.00	62.86	≤68.2	PASS
				Peak	5460.000	-51.04	≤-30.82	4.21	0.00	48.37	≤68.2	PASS
11AC20	Ant1	Low	5260	AV	4500.000	-62.28	≤-45.53	4.21	0.51	37.64	≤54	PASS
				AV	5098.820	-57.39	≤-45.53	4.21	0.51	42.53	≤54	PASS
				AV	5150.000	-57.66	≤-45.53	4.21	0.51	42.26	≤54	PASS
				Peak	4500.000	-53.56	≤-30.82	4.21	0.00	45.85	≤68.2	PASS
				Peak	5130.420	-47.86	≤-30.82	4.21	0.00	51.55	≤68.2	PASS
				Peak	5150.000	-51.08	≤-30.82	4.21	0.00	48.33	≤68.2	PASS
		High	5320	AV	5350.000	-57.76	≤-45.53	4.21	0.51	42.16	≤54	PASS
				AV	5351.680	-57.23	≤-45.53	4.21	0.51	42.69	≤54	PASS
				AV	5460.000	-60.63	≤-45.53	4.21	0.51	39.29	≤54	PASS
				Peak	5350.000	-50.2	≤-30.82	4.21	0.00	49.21	≤68.2	PASS
				Peak	5357.280	-48.3	≤-30.82	4.21	0.00	51.11	≤68.2	PASS
				Peak	5460.000	-52.82	≤-30.82	4.21	0.00	46.59	≤68.2	PASS
11AC40	Ant1	Low	5270	AV	4500.000	-62.12	≤-45.92	4.21	0.90	38.19	≤54	PASS
				AV	5147.800	-57.35	≤-45.92	4.21	0.90	42.96	≤54	PASS
				AV	5150.000	-57.57	≤-45.92	4.21	0.90	42.74	≤54	PASS
				Peak	4500.000	-53.9	≤-30.82	4.21	0.00	45.51	≤68.2	PASS
				Peak	5149.380	-47.46	≤-30.82	4.21	0.00	51.95	≤68.2	PASS
				Peak	5150.000	-50.5	≤-30.82	4.21	0.00	48.91	≤68.2	PASS
		High	5310	AV	5350.000	-49.85	≤-45.92	4.21	0.90	50.46	≤54	PASS
				AV	5350.080	-49.85	≤-45.92	4.21	0.90	50.46	≤54	PASS
				AV	5460.000	-59.4	≤-45.92	4.21	0.90	40.91	≤54	PASS
				Peak	5350.000	-40.39	≤-30.82	4.21	0.00	59.02	≤68.2	PASS
				Peak	5350.240	-38.52	≤-30.82	4.21	0.00	60.89	≤68.2	PASS
				Peak	5460.000	-51.71	≤-30.82	4.21	0.00	47.70	≤68.2	PASS
11AC80	Ant1	Low	5290	AV	4500.000	-62.26	≤-46.27	4.21	1.25	38.40	≤54	PASS
				AV	5136.800	-57.36	≤-46.27	4.21	1.25	43.30	≤54	PASS
				AV	5150.000	-58.1	≤-46.27	4.21	1.25	42.56	≤54	PASS
				Peak	4500.000	-54.31	≤-30.82	4.21	0.00	45.10	≤68.2	PASS
				Peak	5111.200	-47.03	≤-30.82	4.21	0.00	52.38	≤68.2	PASS
				Peak	5150.000	-47.32	≤-30.82	4.21	0.00	52.09	≤68.2	PASS
		High	5290	AV	5350.000	-47.1	≤-46.27	4.21	1.25	53.56	≤54	PASS
				AV	5354.400	-47.1	≤-46.27	4.21	1.25	53.56	≤54	PASS
				AV	5460.000	-61.14	≤-46.27	4.21	1.25	39.52	≤54	PASS
				Peak	5350.000	-36.29	≤-30.82	4.21	0.00	63.12	≤68.2	PASS
				Peak	5460.000	-50.56	≤-30.82	4.21	0.00	48.85	≤68.2	PASS
				Peak	5460.000	-50.56	≤-30.82	4.21	0.00	48.85	≤68.2	PASS
11AC160	Ant1	Low	5250	AV	4500.000	-61.84	≤-47.06	4.21	2.04	39.61	≤54	PASS
				AV	5145.000	-53.14	≤-47.06	4.21	2.04	48.31	≤54	PASS
				AV	5150.000	-55.92	≤-47.06	4.21	2.04	45.53	≤54	PASS

				Peak	4500.000	-54.51	≤-30.82	4.21	0.00	44.90	≤68.2	PASS
				Peak	5145.000	-42.33	≤-30.82	4.21	0.00	57.08	≤68.2	PASS
				Peak	5150.000	-46.8	≤-30.82	4.21	0.00	52.61	≤68.2	PASS
		High	5250	AV	5350.000	-54.79	≤-47.06	4.21	2.04	46.66	≤54	PASS
				AV	5355.280	-51.48	≤-47.06	4.21	2.04	49.97	≤54	PASS
				AV	5460.000	-60.47	≤-47.06	4.21	2.04	40.98	≤54	PASS
				Peak	5350.000	-44.4	≤-30.82	4.21	0.00	55.01	≤68.2	PASS
				Peak	5354.160	-39.99	≤-30.82	4.21	0.00	59.42	≤68.2	PASS
				Peak	5460.000	-51.7	≤-30.82	4.21	0.00	47.71	≤68.2	PASS
11AX20	Ant1	Low	5260	AV	4500.000	-62.08	≤-45.59	4.21	0.57	37.90	≤54	PASS
				AV	5139.900	-56.7	≤-45.59	4.21	0.57	43.28	≤54	PASS
				AV	5150.000	-56.98	≤-45.59	4.21	0.57	43.00	≤54	PASS
				Peak	4500.000	-52.71	≤-30.82	4.21	0.00	46.70	≤68.2	PASS
				Peak	5099.610	-45.2	≤-30.82	4.21	0.00	54.21	≤68.2	PASS
				Peak	5150.000	-49.47	≤-30.82	4.21	0.00	49.94	≤68.2	PASS
		High	5320	AV	5350.000	-57.35	≤-45.59	4.21	0.57	42.63	≤54	PASS
				AV	5350.080	-57.35	≤-45.59	4.21	0.57	42.63	≤54	PASS
				AV	5460.000	-60.15	≤-45.59	4.21	0.57	39.83	≤54	PASS
				Peak	5350.000	-48.76	≤-30.82	4.21	0.00	50.65	≤68.2	PASS
				Peak	5350.400	-47.97	≤-30.82	4.21	0.00	51.44	≤68.2	PASS
				Peak	5460.000	-51.32	≤-30.82	4.21	0.00	48.09	≤68.2	PASS
11AX40	Ant1	Low	5270	AV	4500.000	-62.53	≤-45.60	4.21	0.58	37.46	≤54	PASS
				AV	5108.300	-57.43	≤-45.60	4.21	0.58	42.56	≤54	PASS
				AV	5150.000	-57.64	≤-45.60	4.21	0.58	42.35	≤54	PASS
				Peak	4500.000	-52.48	≤-30.82	4.21	0.00	46.93	≤68.2	PASS
				Peak	5061.690	-46.52	≤-30.82	4.21	0.00	52.89	≤68.2	PASS
				Peak	5150.000	-48.61	≤-30.82	4.21	0.00	50.80	≤68.2	PASS
		High	5310	AV	5350.000	-49.17	≤-45.50	4.21	0.48	50.72	≤54	PASS
				AV	5350.400	-48.35	≤-45.50	4.21	0.48	51.54	≤54	PASS
				AV	5460.000	-59.14	≤-45.50	4.21	0.48	40.75	≤54	PASS
				Peak	5350.000	-40.37	≤-30.82	4.21	0.00	59.04	≤68.2	PASS
				Peak	5350.560	-37.8	≤-30.82	4.21	0.00	61.61	≤68.2	PASS
				Peak	5460.000	-51.82	≤-30.82	4.21	0.00	47.59	≤68.2	PASS
11AX80	Ant1	Low	5290	AV	4500.000	-61.94	≤-45.61	4.21	0.59	38.06	≤54	PASS
				AV	5144.000	-57.13	≤-45.61	4.21	0.59	42.87	≤54	PASS
				AV	5150.000	-57.16	≤-45.61	4.21	0.59	42.84	≤54	PASS
				Peak	4500.000	-54.05	≤-30.82	4.21	0.00	45.36	≤68.2	PASS
				Peak	5145.600	-47.58	≤-30.82	4.21	0.00	51.83	≤68.2	PASS
				Peak	5150.000	-50.01	≤-30.82	4.21	0.00	49.40	≤68.2	PASS
		High	5290	AV	5350.000	-46.65	≤-45.61	4.21	0.59	53.35	≤54	PASS
				AV	5350.600	-46.04	≤-45.61	4.21	0.59	53.96	≤54	PASS

11AX160	Ant1			AV	5460.000	-60.16	≤-45.61	4.21	0.59	39.84	≤54	PASS
				Peak	5350.000	-37.5	≤-30.82	4.21	0.00	61.91	≤68.2	PASS
				Peak	5365.600	-36.72	≤-30.82	4.21	0.00	62.69	≤68.2	PASS
				Peak	5460.000	-52.65	≤-30.82	4.21	0.00	46.76	≤68.2	PASS
		Low	5250	AV	4500.000	-62.32	≤-45.52	4.21	0.50	37.59	≤54	PASS
				AV	5145.000	-52.83	≤-45.52	4.21	0.50	47.08	≤54	PASS
				AV	5150.000	-53.57	≤-45.52	4.21	0.50	46.34	≤54	PASS
				Peak	4500.000	-52.46	≤-30.82	4.21	0.00	46.95	≤68.2	PASS
				Peak	5115.750	-42.77	≤-30.82	4.21	0.00	56.64	≤68.2	PASS
				Peak	5150.000	-45.37	≤-30.82	4.21	0.00	54.04	≤68.2	PASS
		High	5250	AV	5350.000	-47.09	≤-45.52	4.21	0.50	52.82	≤54	PASS
				AV	5354.720	-45.8	≤-45.52	4.21	0.50	54.11	≤54	PASS
				AV	5460.000	-52.76	≤-45.52	4.21	0.50	47.15	≤54	PASS
				Peak	5350.000	-37.52	≤-30.82	4.21	0.00	61.89	≤68.2	PASS
				Peak	5395.600	-34.26	≤-30.82	4.21	0.00	65.15	≤68.2	PASS
				Peak	5460.000	-43.98	≤-30.82	4.21	0.00	55.43	≤68.2	PASS

Note:

1. The Antenna Gain is compensated in the graph.

Test Graphs

