

Appendix C

RF Test Data for 5.3GWIFI(Conducted Measurement)

KTM X-BOW GT2

Test Model: KTM X-BOW GT2

Environmental Conditions

Temperature:	24.5° C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

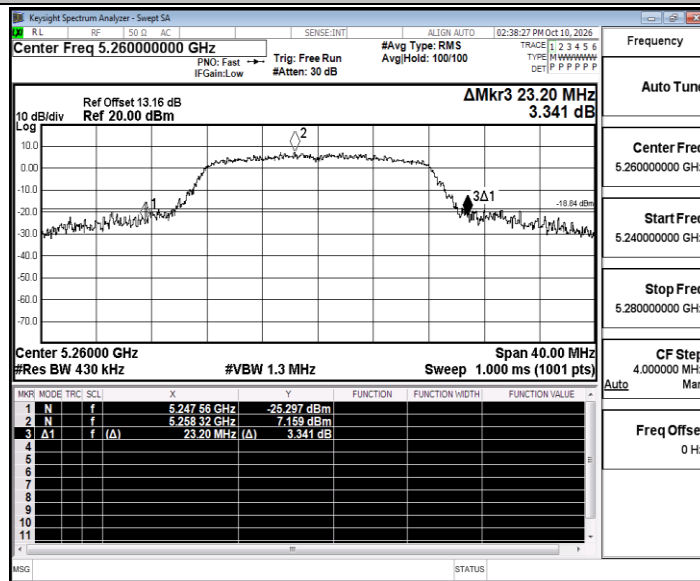
C.1 Emission Bandwidth

Test Result

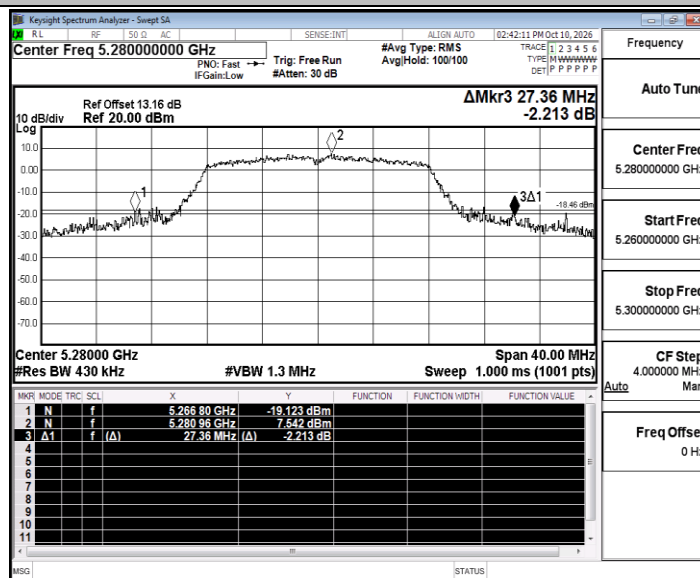
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5260	23.200	5247.560	5270.760	---	---
		5280	27.360	5266.800	5294.160	---	---
		5320	25.840	5306.240	5332.080	---	---
11N20SISO	Ant1	5260	27.520	5245.920	5273.440	---	---
		5280	25.720	5266.560	5292.280	---	---
		5320	27.120	5306.120	5333.240	---	---
11N40SISO	Ant1	5270	67.440	5235.680	5303.120	---	---
		5310	68.400	5276.000	5344.400	---	---
11AC20SISO	Ant1	5260	23.400	5246.920	5270.320	---	---
		5280	26.720	5268.640	5295.360	---	---
		5320	27.720	5306.320	5334.040	---	---
11AC40SISO	Ant1	5270	47.920	5249.120	5297.040	---	---
		5310	48.800	5285.280	5334.080	---	---
11AX20SISO	Ant1	5260	25.400	5246.120	5271.520	---	---
		5280	24.840	5268.600	5293.440	---	---
		5320	30.160	5304.880	5335.040	---	---
11AX40SISO	Ant1	5270	50.400	5243.040	5293.440	---	---
		5310	52.240	5283.280	5335.520	---	---

Test Graphs

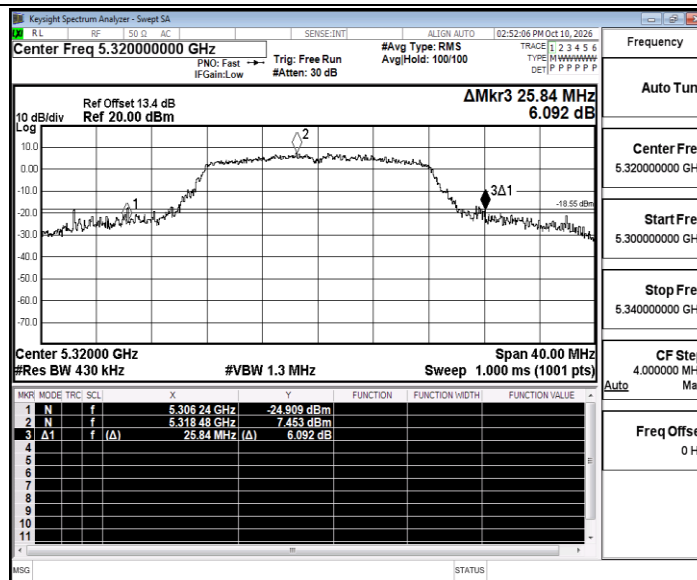
11A_Ant1_5260



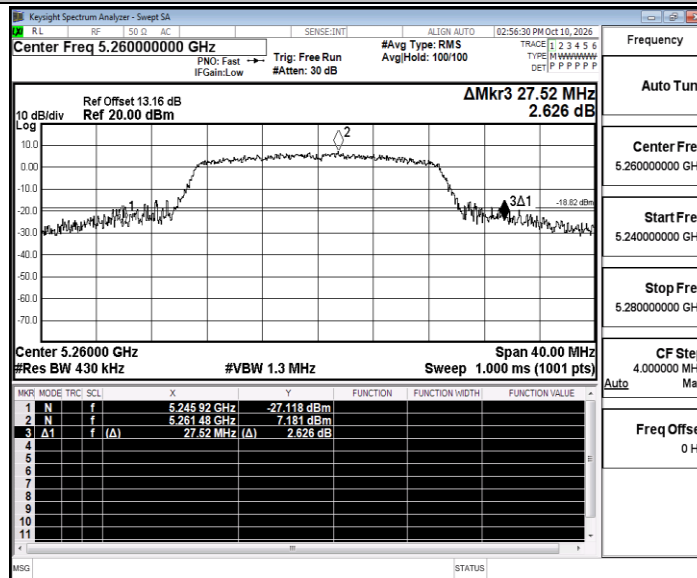
11A_Ant1_5280



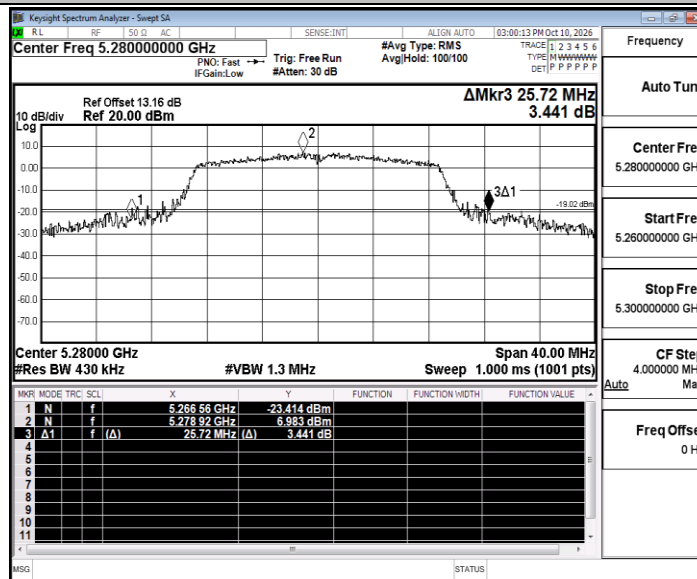
11A_Ant1_5320



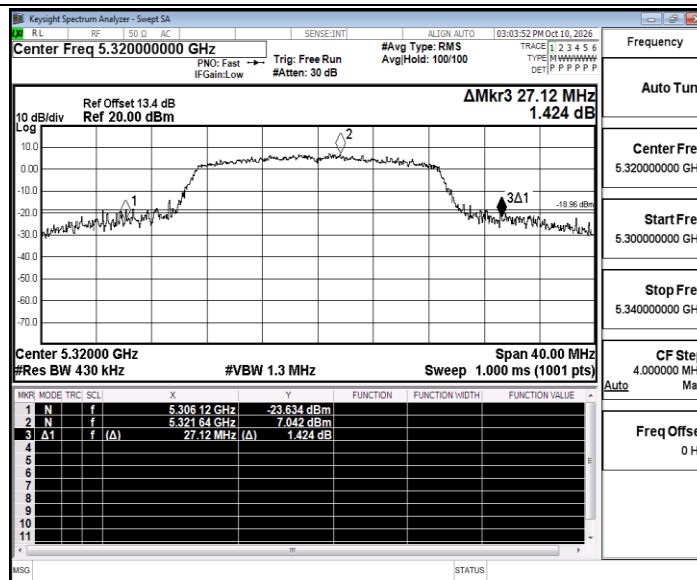
11N20SISO_Ant1_5260



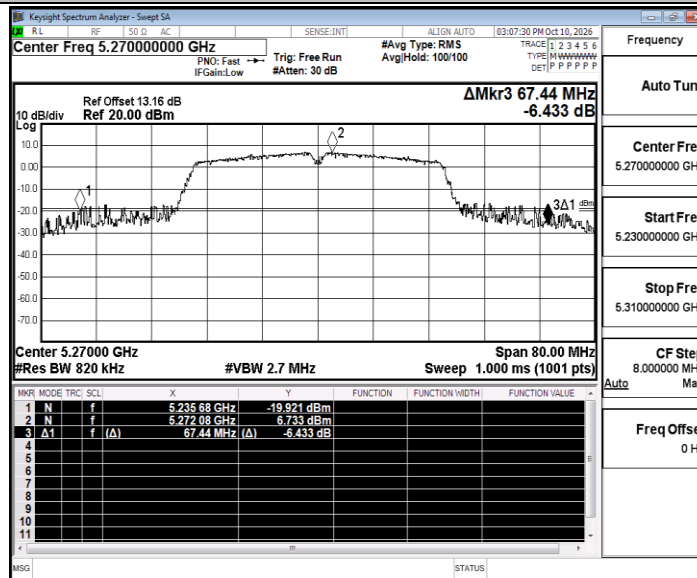
11N20SISO_Ant1_5280



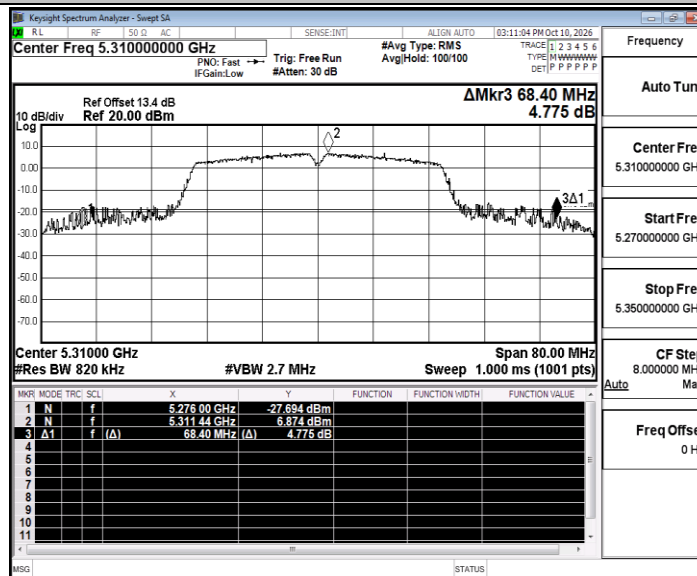
11N20SISO_Ant1_5320



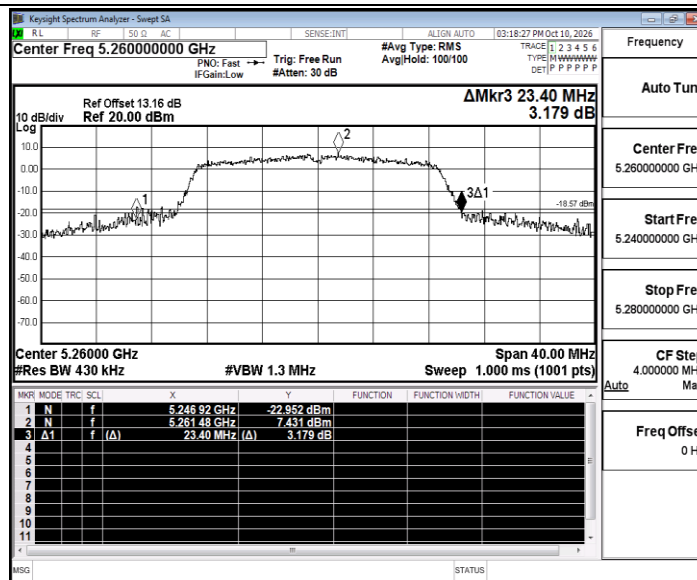
11N40SISO_Ant1_5270



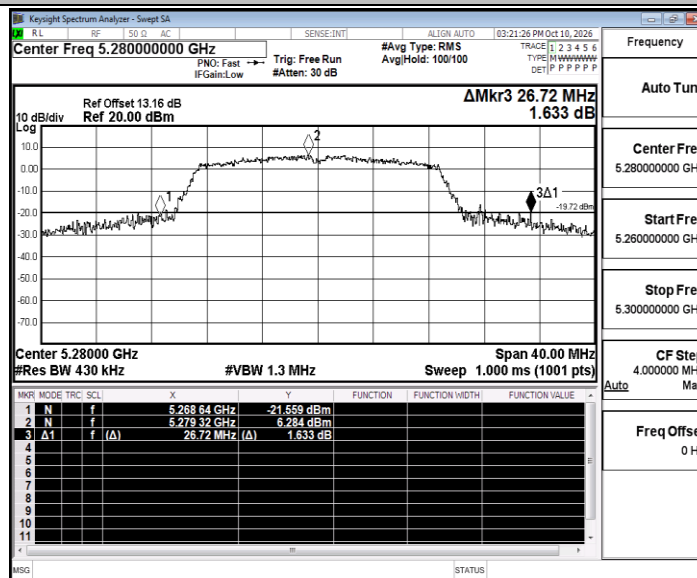
11N40SISO_Ant1_5310



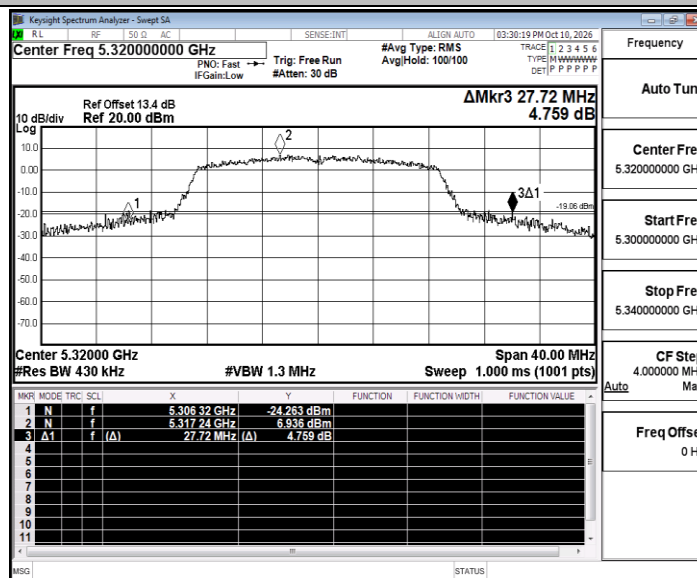
11AC20SISO_Ant1_5260



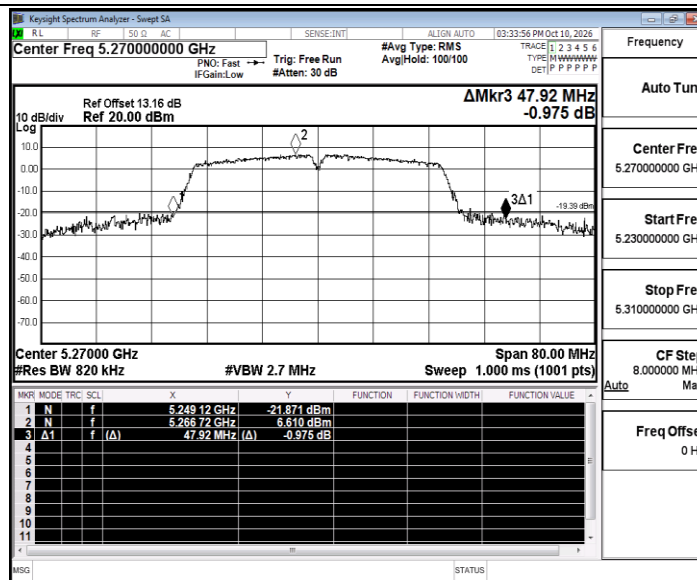
11AC20SISO_Ant1_5280



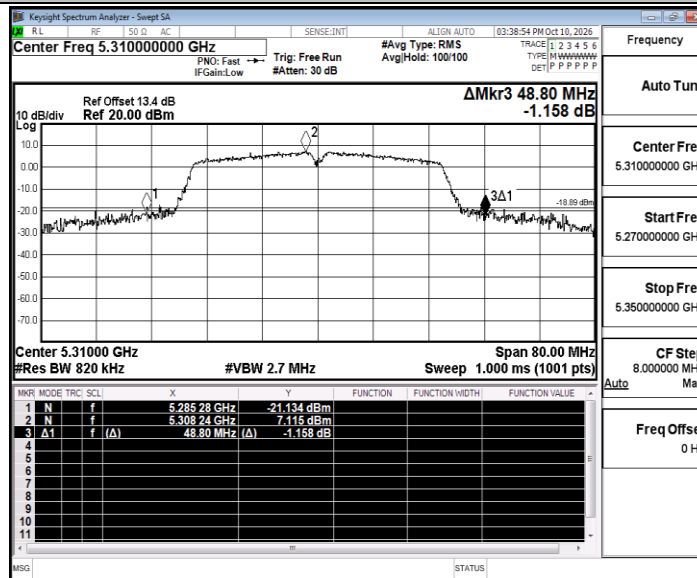
11AC20SISO_Ant1_5320



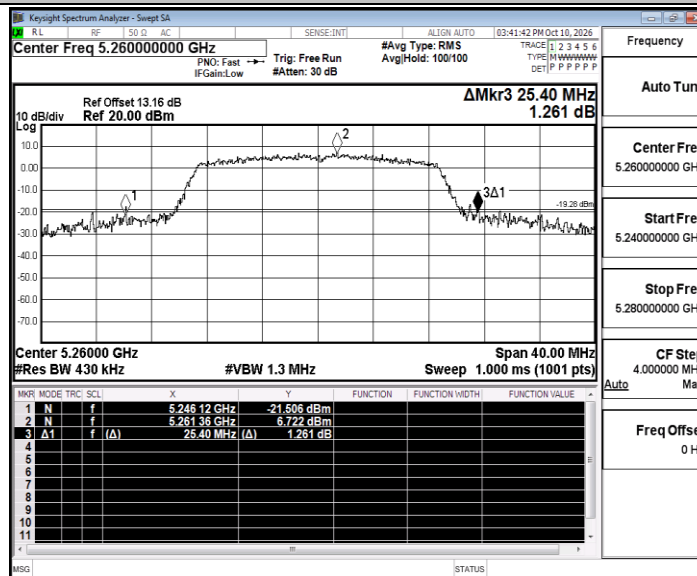
11AC40SISO_Ant1_5270



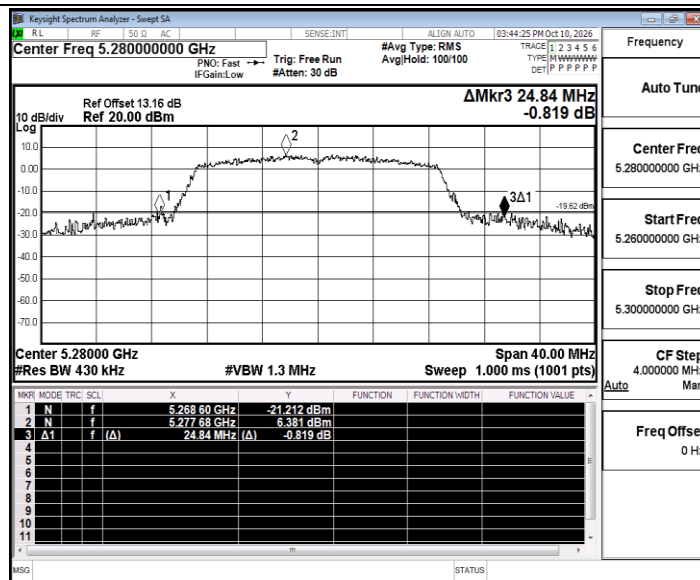
11AC40SISO_Ant1_5310



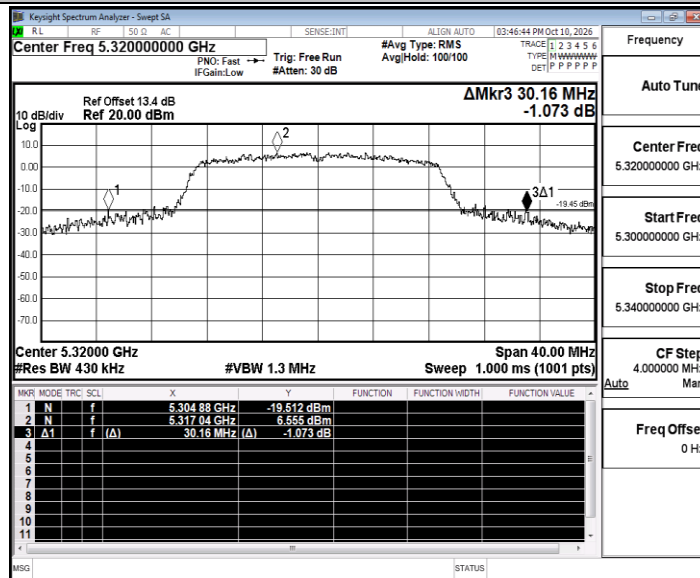
11AX20SISO_Ant1_5260



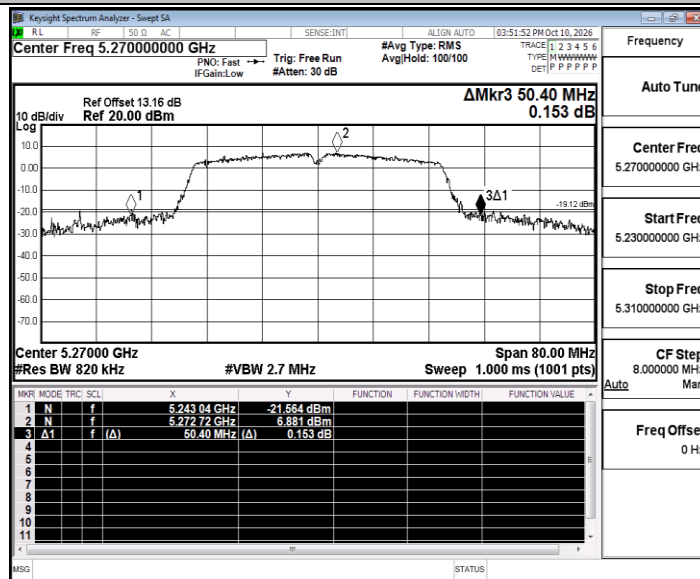
11AX20SISO_Ant1_5280



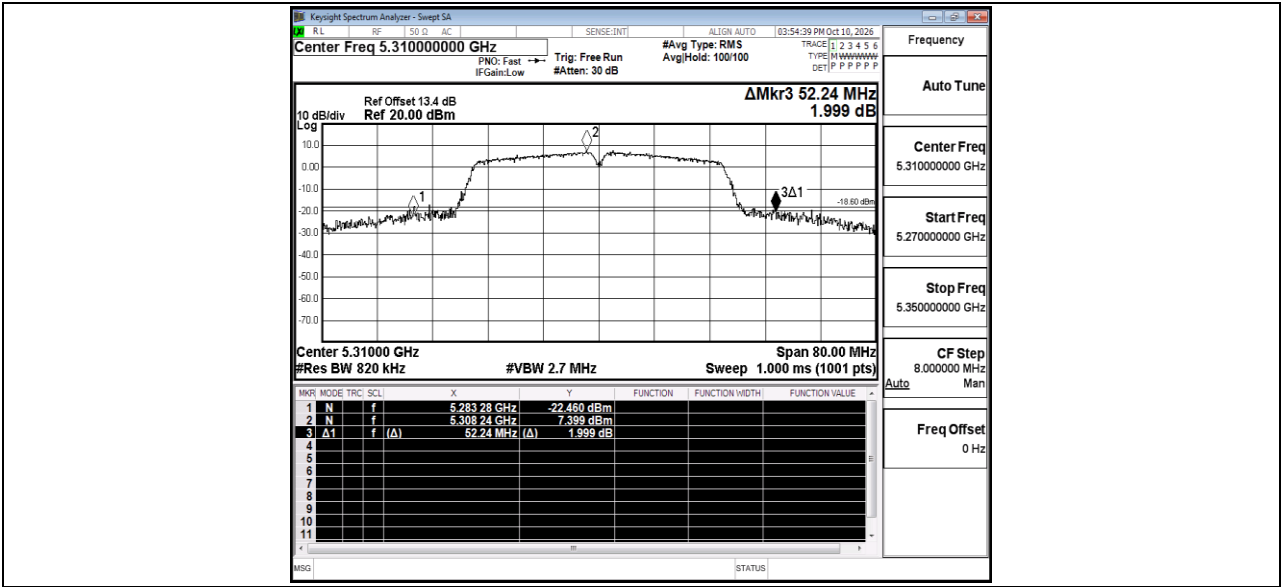
11AX20SISO_Ant1_5320



11AX40SISO_Ant1_5270



11AX40SISO_Ant1_5310



C.2 Maximum conducted output power

Test Result Channel Power

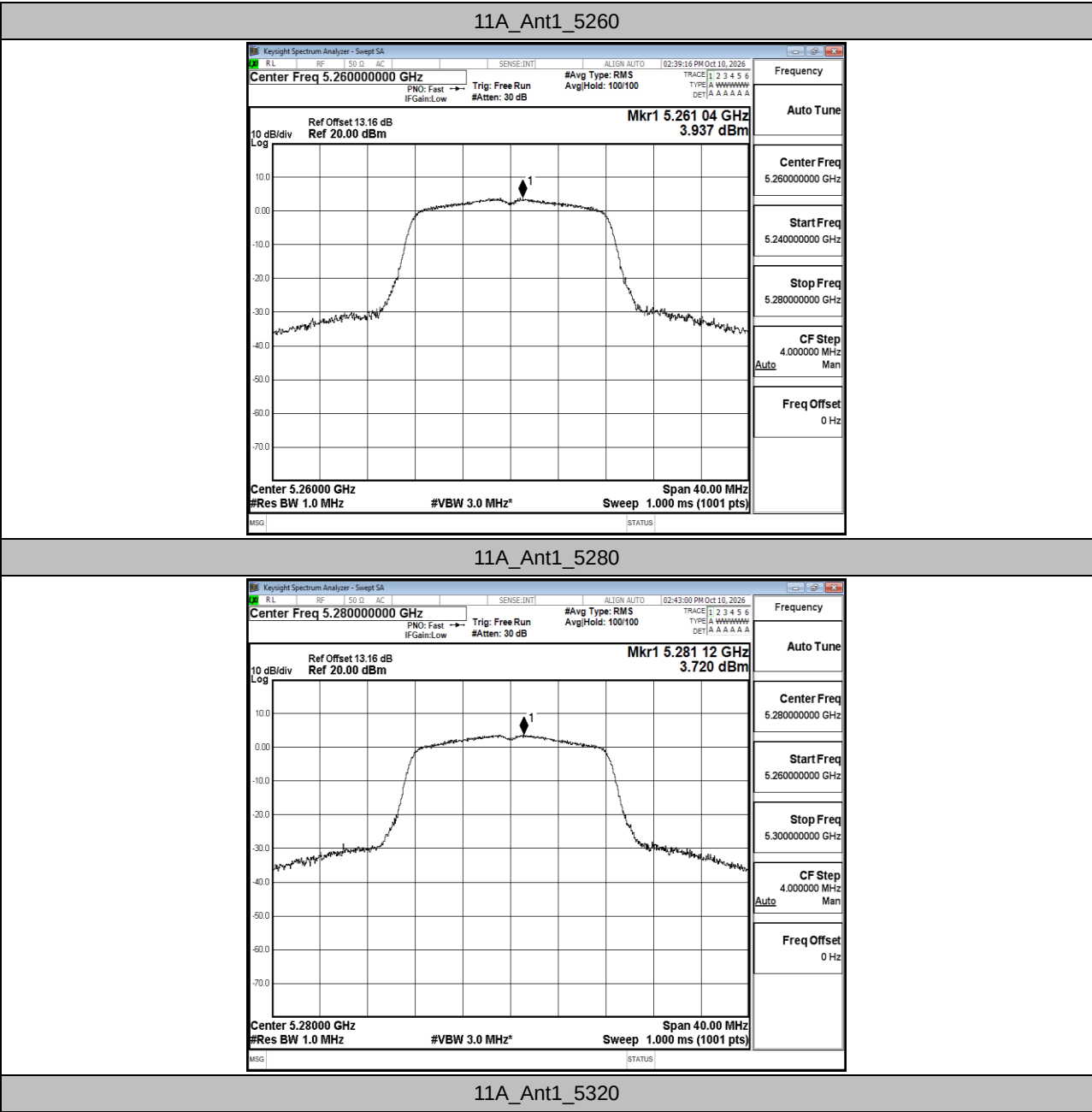
Test Mode	Antenna	Freq(MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5260	NA	7.35	0.12	7.47	≤23.98	PASS
		5280	NA	7.17	0.15	7.32	≤23.98	PASS
		5320	NA	7.33	0.12	7.45	≤23.98	PASS
11N20SISO	Ant1	5260	NA	6.91	0.16	7.07	≤23.98	PASS
		5280	NA	6.88	0.13	7.01	≤23.98	PASS
		5320	NA	6.81	0.16	6.97	≤23.98	PASS
11N40SISO	Ant1	5270	NA	6.57	0.26	6.83	≤23.98	PASS
		5310	NA	6.73	0.26	6.99	≤23.98	PASS
11AC20SISO	Ant1	5260	NA	6.52	0.13	6.65	≤23.98	PASS
		5280	NA	6.22	0.16	6.38	≤23.98	PASS
		5320	NA	6.43	0.16	6.59	≤23.98	PASS
11AC40SISO	Ant1	5270	NA	6.52	0.32	6.84	≤23.98	PASS
		5310	NA	6.62	0.32	6.94	≤23.98	PASS
11AX20SISO	Ant1	5260	NA	7.32	0.16	7.48	≤23.98	PASS
		5280	NA	7.14	0.13	7.27	≤23.98	PASS
		5320	NA	7.17	0.13	7.3	≤23.98	PASS
11AX40SISO	Ant1	5270	NA	6.52	0.26	6.78	≤23.98	PASS
		5310	NA	6.65	0.26	6.91	≤23.98	PASS

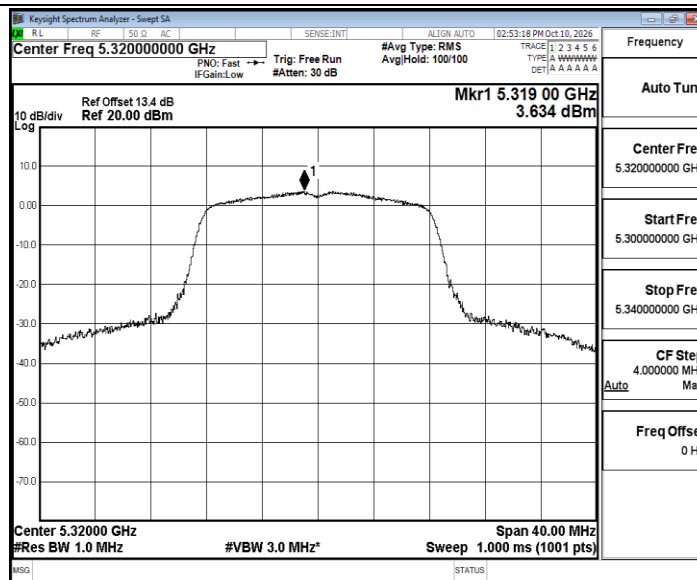
C.3 Maximum power spectral density

Test Result

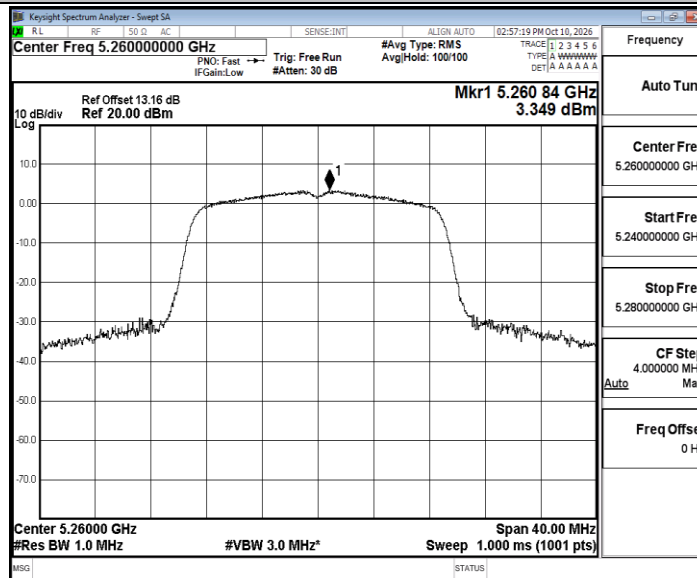
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5260	3.94	0.12	4.06	≤11.00	PASS
		5280	3.72	0.15	3.87	≤11.00	PASS
		5320	3.63	0.12	3.75	≤11.00	PASS
11N20SISO	Ant1	5260	3.35	0.16	3.51	≤11.00	PASS
		5280	3.44	0.13	3.57	≤11.00	PASS
		5320	3.48	0.16	3.64	≤11.00	PASS
11N40SISO	Ant1	5270	0.07	0.26	0.33	≤11.00	PASS
		5310	0.56	0.26	0.82	≤11.00	PASS
11AC20SISO	Ant1	5260	3.56	0.13	3.69	≤11.00	PASS
		5280	3.48	0.16	3.64	≤11.00	PASS
		5320	3.33	0.16	3.49	≤11.00	PASS
11AC40SISO	Ant1	5270	0.57	0.32	0.89	≤11.00	PASS
		5310	0.55	0.32	0.87	≤11.00	PASS
11AX20SISO	Ant1	5260	3.4	0.16	3.56	≤11.00	PASS
		5280	3.64	0.13	3.77	≤11.00	PASS
		5320	3.39	0.13	3.52	≤11.00	PASS
11AX40SISO	Ant1	5270	0.36	0.26	0.62	≤11.00	PASS
		5310	0.71	0.26	0.97	≤11.00	PASS

Test Graphs

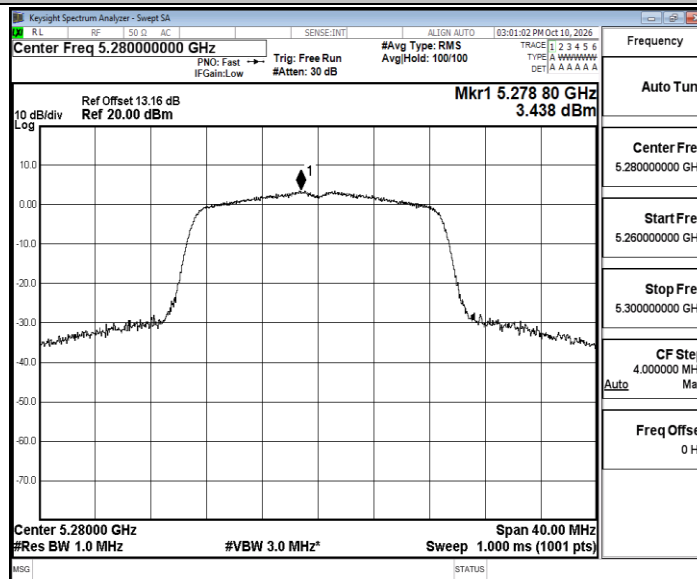




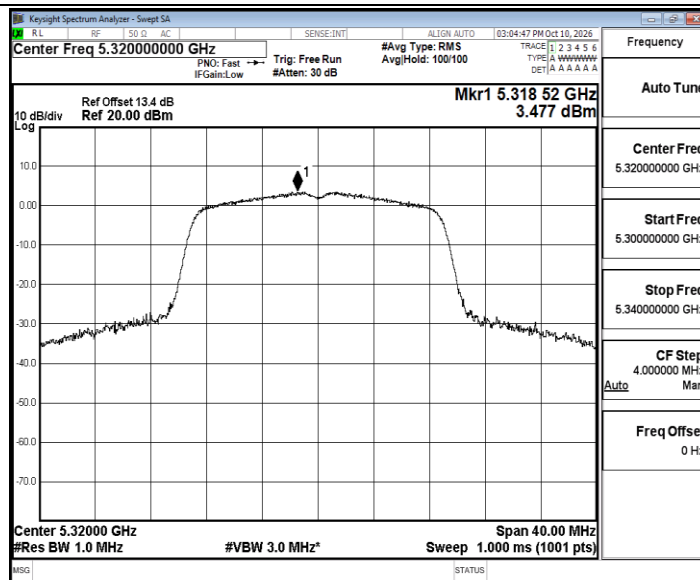
11N20SISO_Ant1_5260



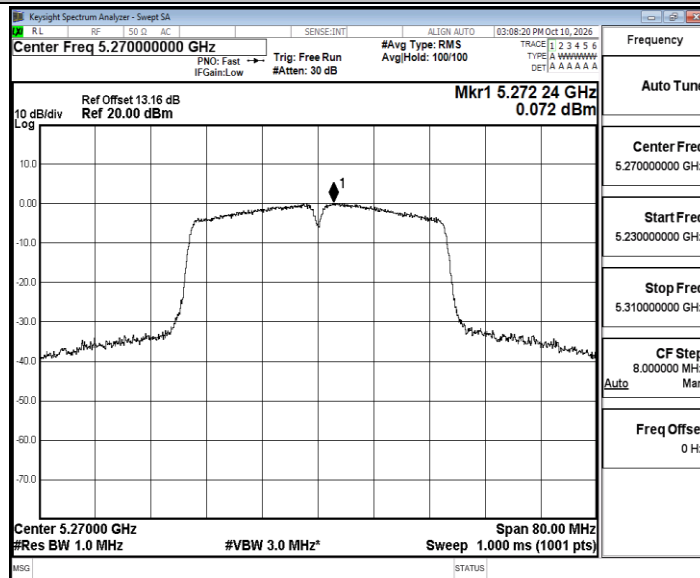
11N20SISO_Ant1_5280



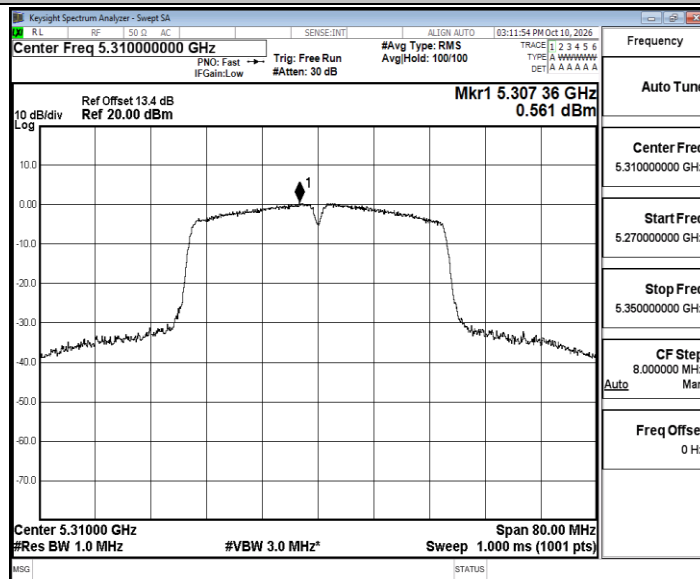
11N20SISO_Ant1_5320



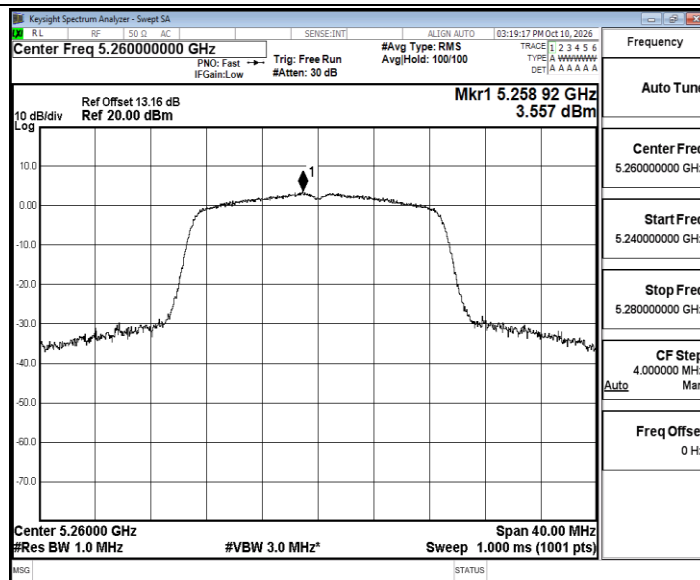
11N40SISO_Ant1_5270



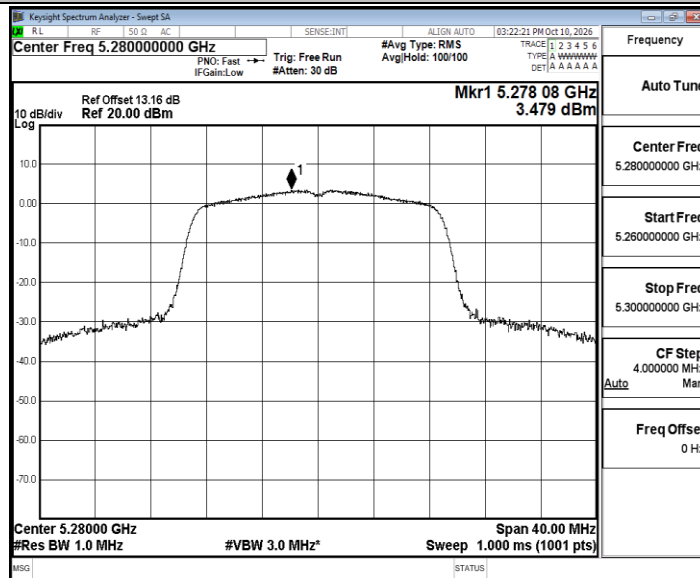
11N40SISO_Ant1_5310



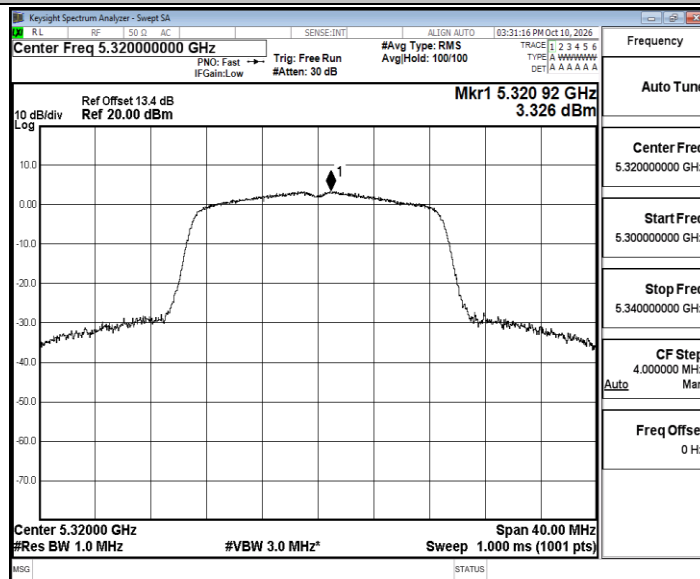
11AC20SISO_Ant1_5260



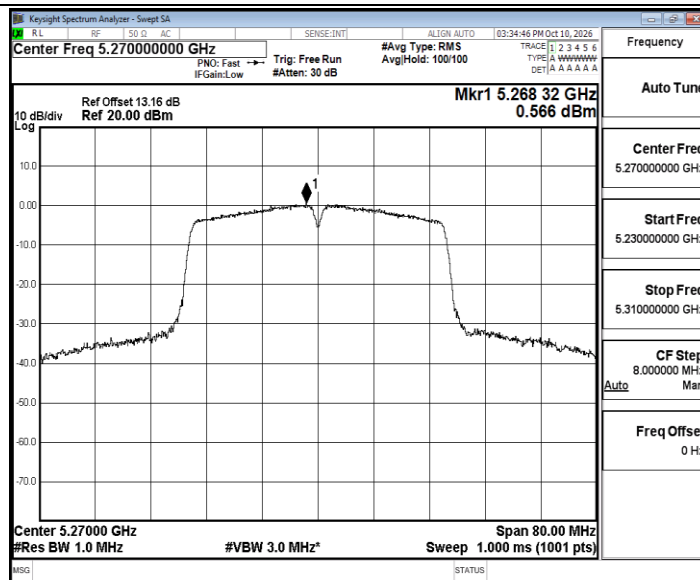
11AC20SISO_Ant1_5280



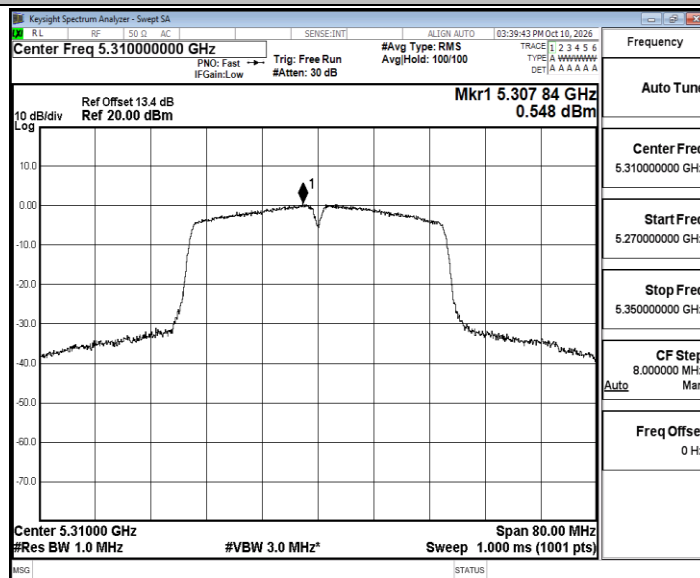
11AC20SISO_Ant1_5320



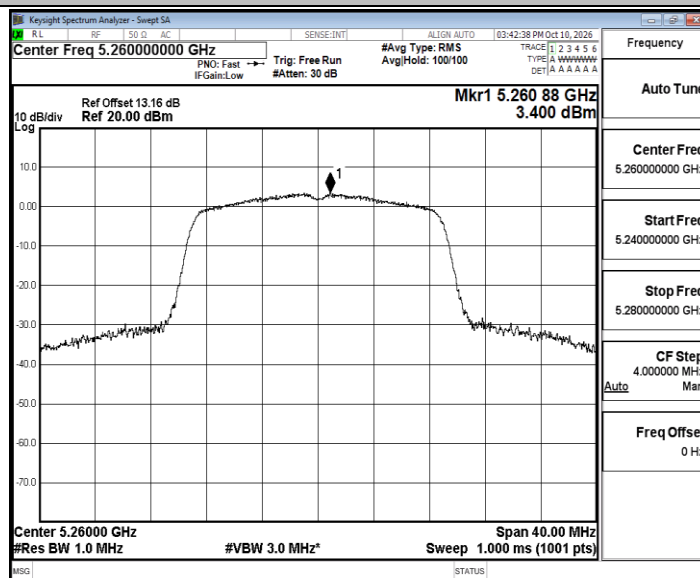
11AC40SISO_Ant1_5270



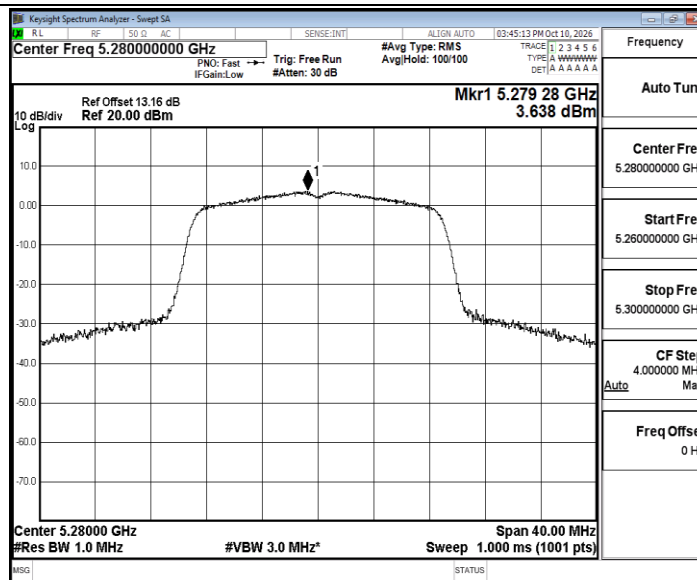
11AC40SISO_Ant1_5310



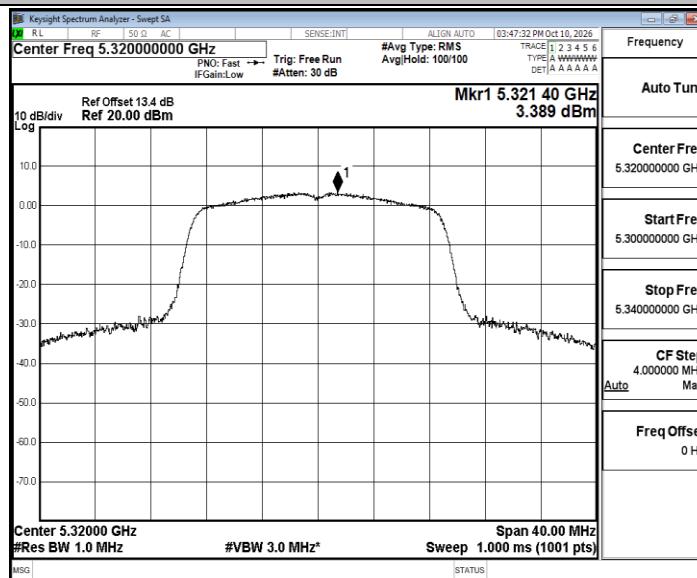
11AX20SISO_Ant1_5260



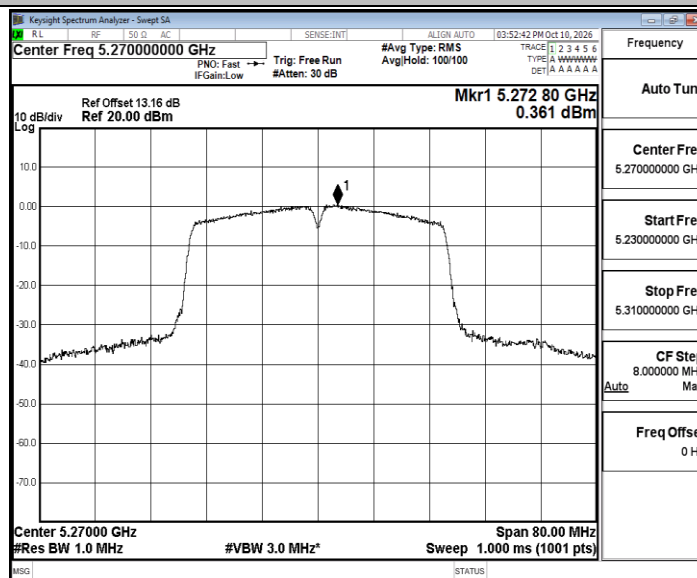
11AX20SISO_Ant1_5280



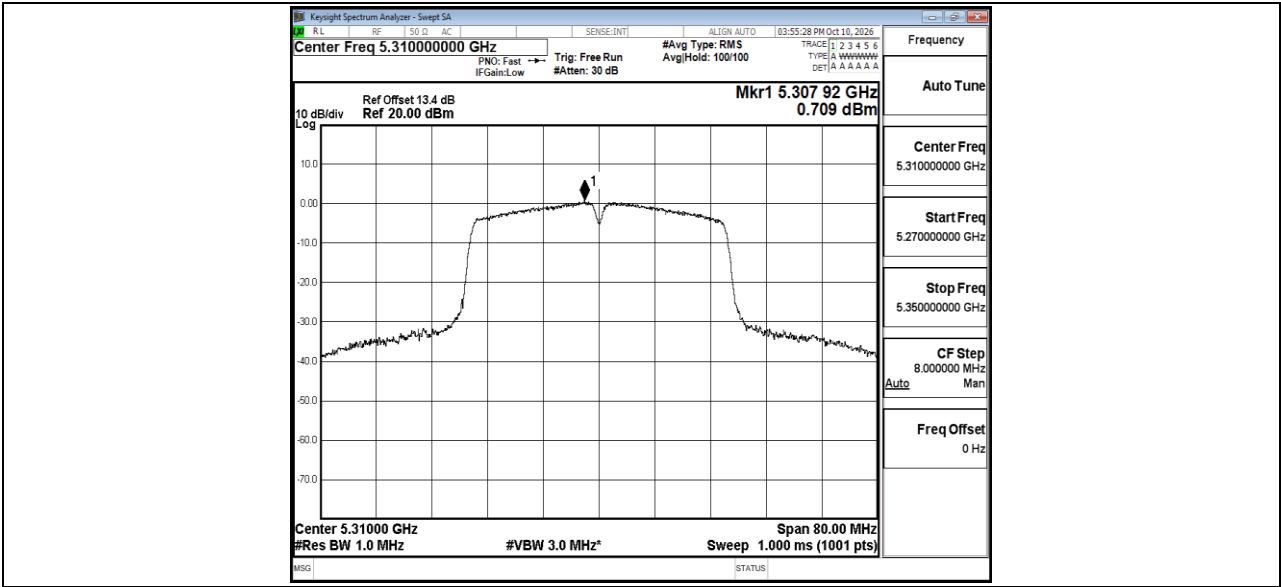
11AX20SISO_Ant1_5320



11AX40SISO_Ant1_5270



11AX40SISO_Ant1_5310



C.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	5260	AV	4500.000	-58.46	≤-44.32	4.91	0.12	41.80	≤54	PASS
				AV	5143.850	-53.69	≤-44.32	4.91	0.12	46.57	≤54	PASS
				AV	5150.000	-54.55	≤-44.32	4.91	0.12	45.71	≤54	PASS
				Peak	4500.000	-50.26	≤-30.00	4.91	0	49.88	≤68.2	PASS
				Peak	5149.380	-43.97	≤-30.00	4.91	0	56.17	≤68.2	PASS
				Peak	5150.000	-45.11	≤-30.00	4.91	0	55.03	≤68.2	PASS
		High	5320	AV	5350.000	-56.23	≤-44.32	4.91	0.12	44.03	≤54	PASS
				AV	5350.560	-56.01	≤-44.32	4.91	0.12	44.25	≤54	PASS
				AV	5460.000	-55.79	≤-44.32	4.91	0.12	44.47	≤54	PASS
				Peak	5350.000	-35.97	≤-30.00	4.91	0	64.17	≤68.2	PASS
				Peak	5355.680	-33.75	≤-30.00	4.91	0	66.39	≤68.2	PASS
				Peak	5460.000	-46.86	≤-30.00	4.91	0	53.28	≤68.2	PASS
11N2 OSIS O	Ant1	Low	5260	AV	4500.000	-58.07	≤-44.36	4.91	0.16	42.23	≤54	PASS
				AV	5128.050	-54.19	≤-44.36	4.91	0.16	46.11	≤54	PASS
				AV	5150.000	-54.44	≤-44.36	4.91	0.16	45.86	≤54	PASS
				Peak	4500.000	-50.45	≤-30.00	4.91	0	49.69	≤68.2	PASS
				Peak	5077.490	-44.15	≤-30.00	4.91	0	55.99	≤68.2	PASS
				Peak	5150.000	-47.23	≤-30.00	4.91	0	52.91	≤68.2	PASS
		High	5320	AV	5350.000	-46.45	≤-44.36	4.91	0.16	53.85	≤54	PASS
				AV	5350.080	-46.45	≤-44.36	4.91	0.16	53.85	≤54	PASS
				AV	5460.000	-56.18	≤-44.36	4.91	0.16	44.12	≤54	PASS
				Peak	5350.000	-32.24	≤-30.00	4.91	0	67.90	≤68.2	PASS
				Peak	5351.840	-41.64	≤-30.00	4.91	0	58.50	≤68.2	PASS
				Peak	5460.000	-47.95	≤-30.00	4.91	0	52.19	≤68.2	PASS
11N4 OSIS O	Ant1	Low	5270	AV	4500.000	-58.09	≤-44.46	4.91	0.26	42.31	≤54	PASS
				AV	5149.380	-53.79	≤-44.46	4.91	0.26	46.61	≤54	PASS
				AV	5150.000	-54.38	≤-44.46	4.91	0.26	46.02	≤54	PASS
				Peak	4500.000	-49.79	≤-30.00	4.91	0	50.35	≤68.2	PASS
				Peak	5131.210	-44.33	≤-30.00	4.91	0	55.81	≤68.2	PASS
				Peak	5150.000	-46.97	≤-30.00	4.91	0	53.17	≤68.2	PASS
		High	5310	AV	5350.000	-48.84	≤-44.46	4.91	0.26	51.56	≤54	PASS
				AV	5350.080	-48.84	≤-44.46	4.91	0.26	51.56	≤54	PASS
				AV	5460.000	-56.42	≤-44.46	4.91	0.26	43.98	≤54	PASS
				Peak	5350.000	-33.05	≤-30.00	4.91	0	67.09	≤68.2	PASS
				Peak	5350.080	-33.05	≤-30.00	4.91	0	67.09	≤68.2	PASS
				Peak	5460.000	-49.28	≤-30.00	4.91	0	50.86	≤68.2	PASS

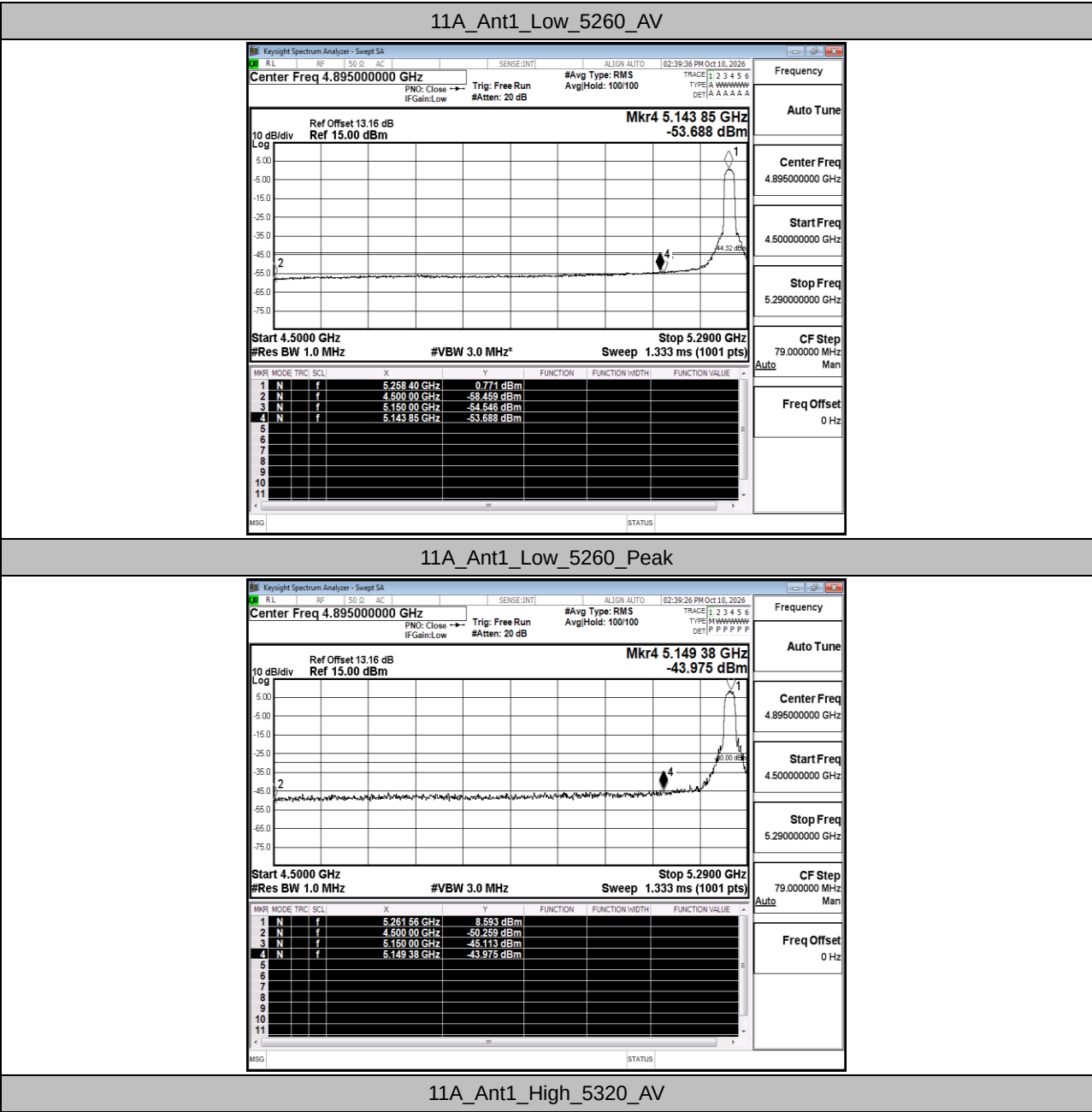
11AC 20SI SO	Ant1	Low	5260	AV	4500.000	-57.55	≤-44.33	4.91	0.13	42.72	≤54	PASS
				AV	5139.900	-53.99	≤-44.33	4.91	0.13	46.28	≤54	PASS
				AV	5150.000	-54.41	≤-44.33	4.91	0.13	45.86	≤54	PASS
				Peak	4500.000	-51.35	≤-30.00	4.91	0	48.79	≤68.2	PASS
				Peak	5130.420	-44.53	≤-30.00	4.91	0	55.61	≤68.2	PASS
				Peak	5150.000	-45.98	≤-30.00	4.91	0	54.16	≤68.2	PASS
		High	5320	AV	5350.000	-47.28	≤-44.36	4.91	0.16	53.02	≤54	PASS
				AV	5350.400	-54.72	≤-44.36	4.91	0.16	45.58	≤54	PASS
				AV	5460.000	-55.91	≤-44.36	4.91	0.16	44.39	≤54	PASS
				Peak	5350.000	-35.31	≤-30.00	4.91	0	64.83	≤68.2	PASS
				Peak	5352.480	-40.78	≤-30.00	4.91	0	59.36	≤68.2	PASS
				Peak	5460.000	-48.97	≤-30.00	4.91	0	51.17	≤68.2	PASS
11AC 40SI SO	Ant1	Low	5270	AV	4500.000	-58.42	≤-44.52	4.91	0.32	42.04	≤54	PASS
				AV	5144.640	-54.12	≤-44.52	4.91	0.32	46.34	≤54	PASS
				AV	5150.000	-54.7	≤-44.52	4.91	0.32	45.76	≤54	PASS
				Peak	4500.000	-49.75	≤-30.00	4.91	0	50.39	≤68.2	PASS
				Peak	5097.240	-43.87	≤-30.00	4.91	0	56.27	≤68.2	PASS
				Peak	5150.000	-44.9	≤-30.00	4.91	0	55.24	≤68.2	PASS
		High	5310	AV	5350.000	-50.51	≤-44.52	4.91	0.32	49.95	≤54	PASS
				AV	5350.240	-50.02	≤-44.52	4.91	0.32	50.44	≤54	PASS
				AV	5460.000	-55.9	≤-44.52	4.91	0.32	44.56	≤54	PASS
				Peak	5350.000	-36.19	≤-30.00	4.91	0	63.95	≤68.2	PASS
				Peak	5350.720	-34.86	≤-30.00	4.91	0	65.28	≤68.2	PASS
				Peak	5460.000	-48.03	≤-30.00	4.91	0	52.11	≤68.2	PASS
11AX 20SI SO	Ant1	Low	5260	AV	4500.000	-58.05	≤-44.36	4.91	0.16	42.25	≤54	PASS
				AV	5140.690	-54.15	≤-44.36	4.91	0.16	46.15	≤54	PASS
				AV	5150.000	-54.43	≤-44.36	4.91	0.16	45.87	≤54	PASS
				Peak	4500.000	-50.2	≤-30.00	4.91	0	49.94	≤68.2	PASS
				Peak	5148.590	-44.35	≤-30.00	4.91	0	55.79	≤68.2	PASS
				Peak	5150.000	-45.62	≤-30.00	4.91	0	54.52	≤68.2	PASS
		High	5320	AV	5350.000	-55.62	≤-44.33	4.91	0.13	44.65	≤54	PASS
				AV	5350.080	-55.62	≤-44.33	4.91	0.13	44.65	≤54	PASS
				AV	5460.000	-55.75	≤-44.33	4.91	0.13	44.52	≤54	PASS
				Peak	5350.000	-35.95	≤-30.00	4.91	0	64.19	≤68.2	PASS
				Peak	5350.560	-32.28	≤-30.00	4.91	0	67.86	≤68.2	PASS
				Peak	5460.000	-49.19	≤-30.00	4.91	0	50.95	≤68.2	PASS
11AX 40SI SO	Ant1	Low	5270	AV	4500.000	-57.55	≤-44.46	4.91	0.26	42.85	≤54	PASS
				AV	5149.380	-53.58	≤-44.46	4.91	0.26	46.82	≤54	PASS
				AV	5150.000	-54.38	≤-44.46	4.91	0.26	46.02	≤54	PASS
				Peak	4500.000	-50.55	≤-30.00	4.91	0	49.59	≤68.2	PASS
				Peak	5143.850	-44.39	≤-30.00	4.91	0	55.75	≤68.2	PASS
				Peak	5150.000	-45.42	≤-30.00	4.91	0	54.72	≤68.2	PASS
		High	5310	AV	5350.000	-50	≤-44.46	4.91	0.26	50.40	≤54	PASS
				AV	5351.040	-49.72	≤-44.46	4.91	0.26	50.68	≤54	PASS

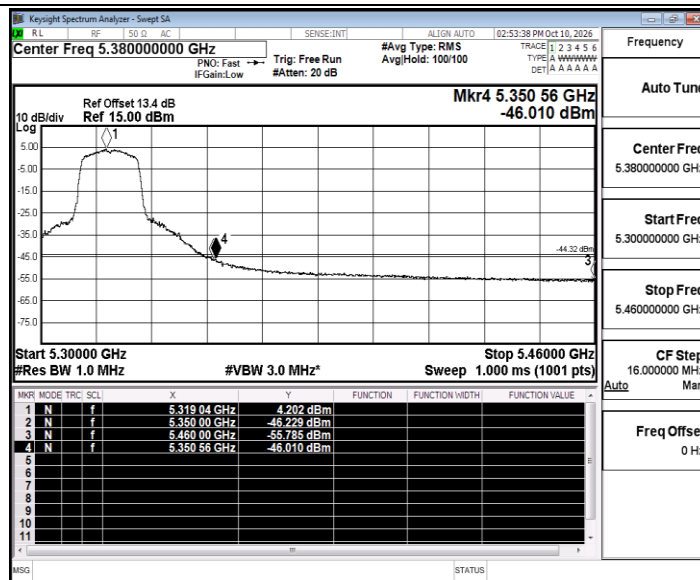
				AV	5460.000	-55.94	≤-44.46	4.91	0.26	44.46	≤54	PASS
				Peak	5350.000	-38.51	≤-30.00	4.91	0	61.63	≤68.2	PASS
				Peak	5350.400	-36.53	≤-30.00	4.91	0	63.61	≤68.2	PASS
				Peak	5460.000	-46.73	≤-30.00	4.91	0	53.41	≤68.2	PASS

Note:

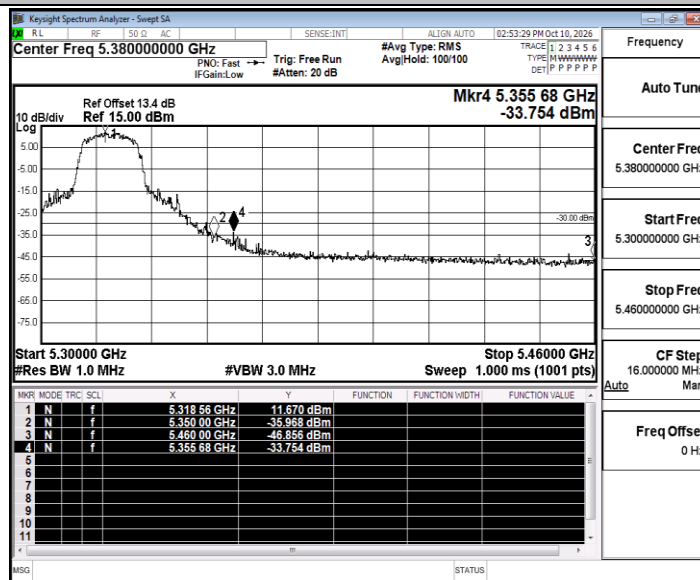
1. The Antenna Gain is compensated in the graph.

Test Graphs

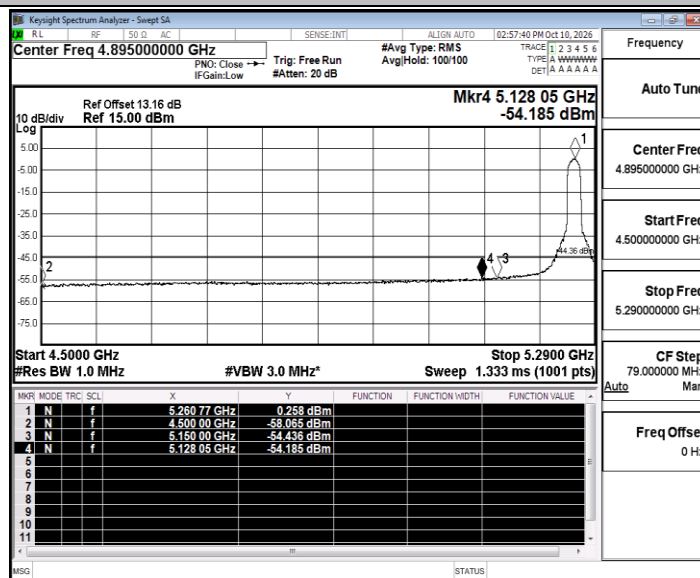




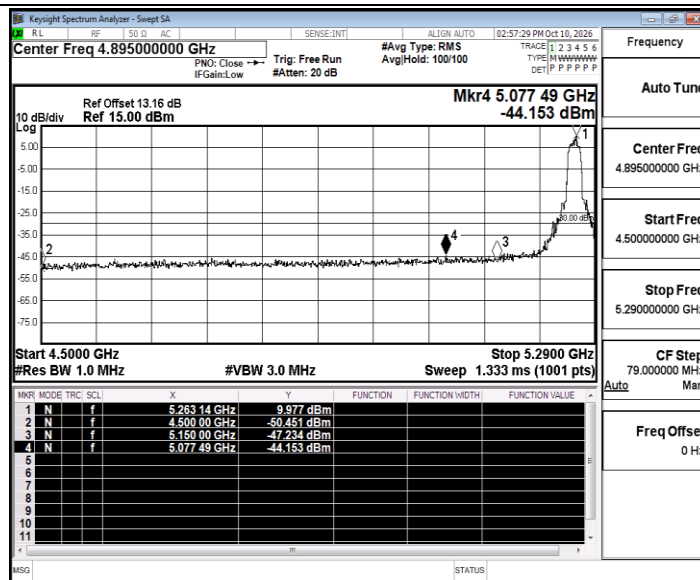
11A_Ant1_High_5320_Peak



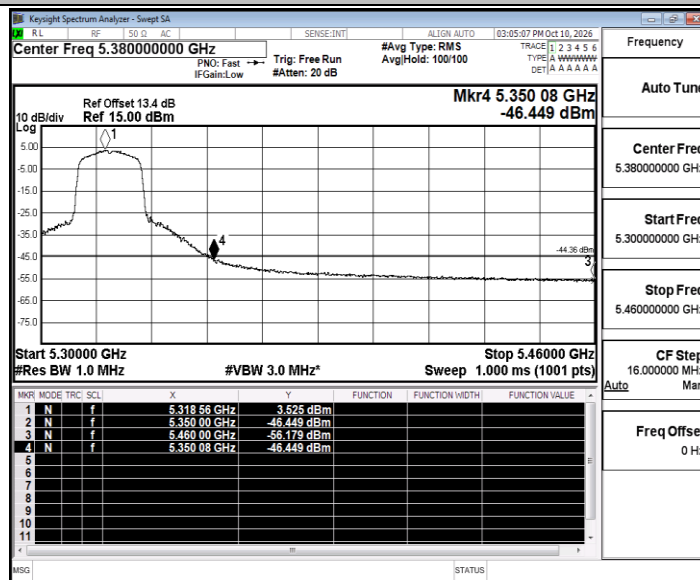
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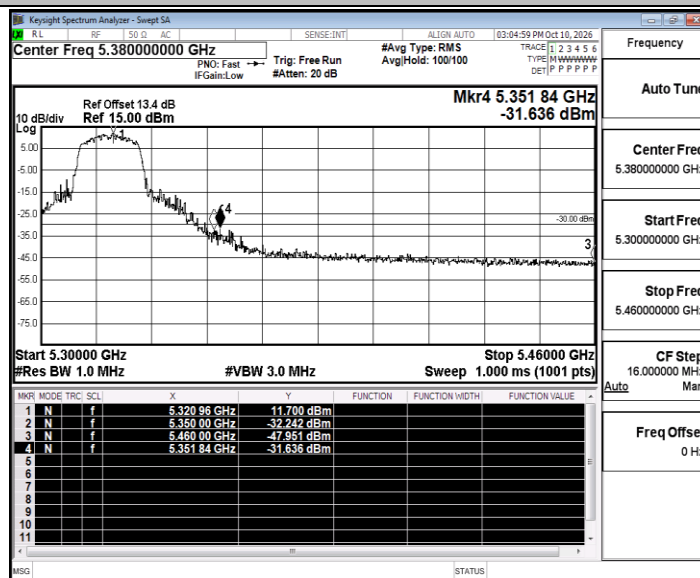
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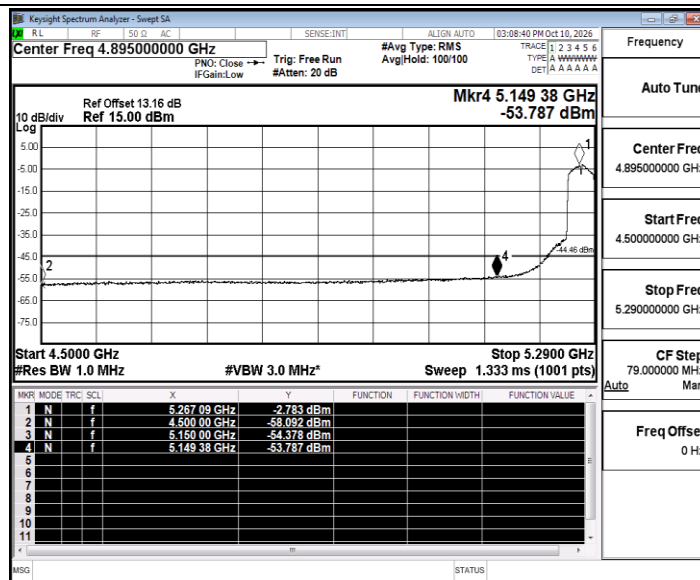
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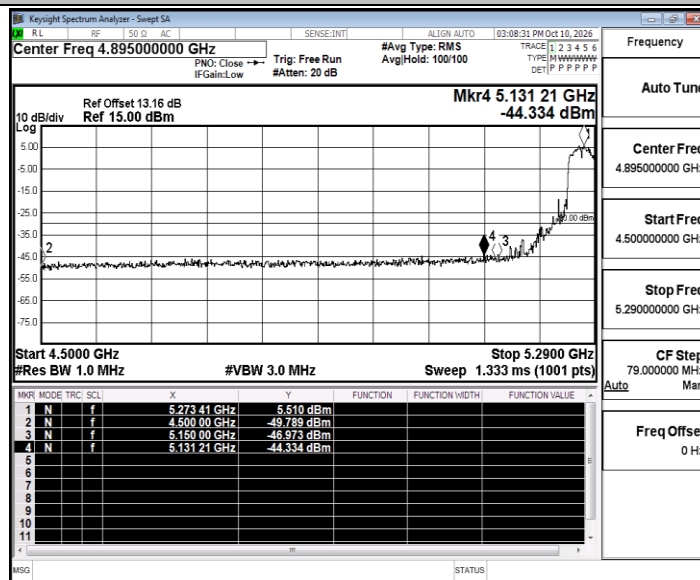
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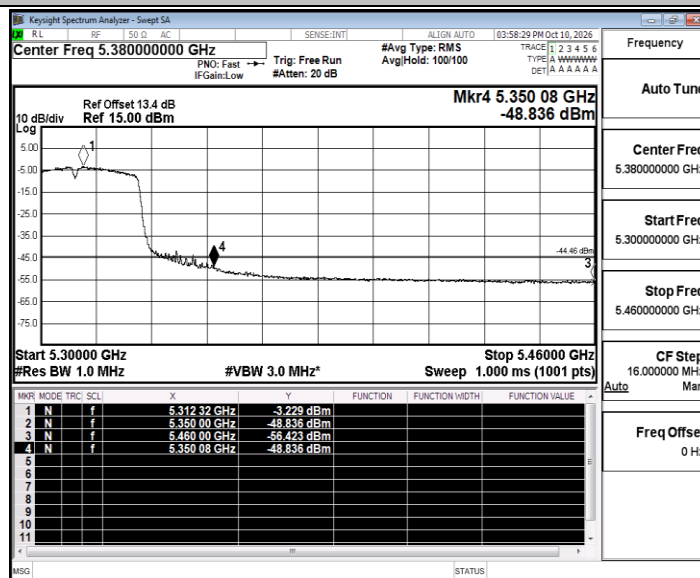
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11N40SISO_Ant1_Low_5270_Peak



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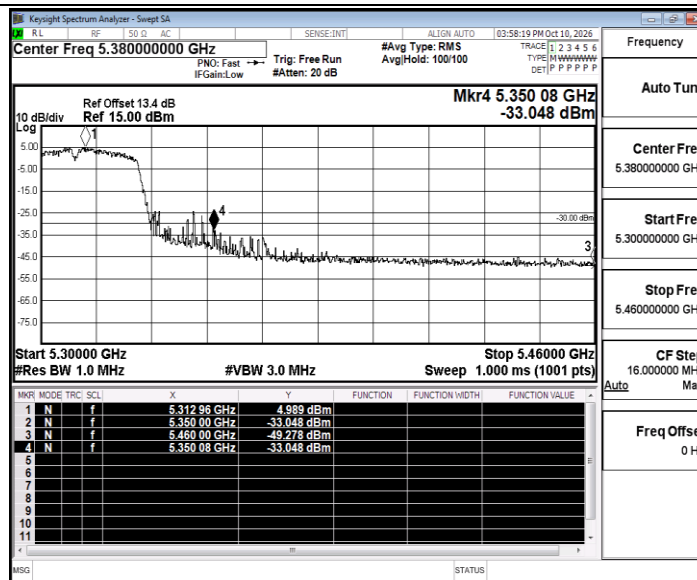


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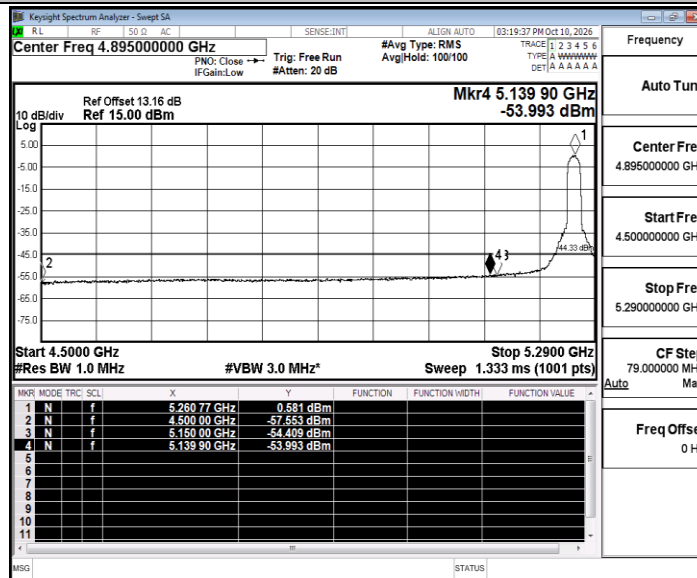
Guangzhou LCS Compliance Testing Laboratory Ltd.

Add: No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China

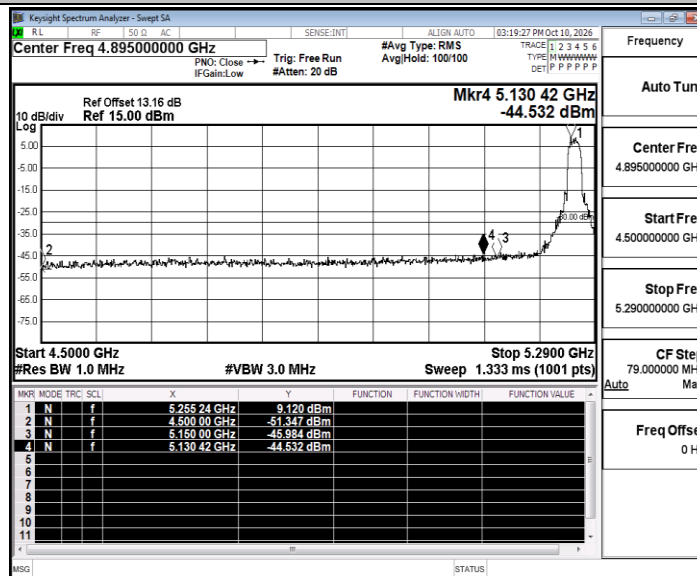
Tel: +(86) 020-39166689 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com



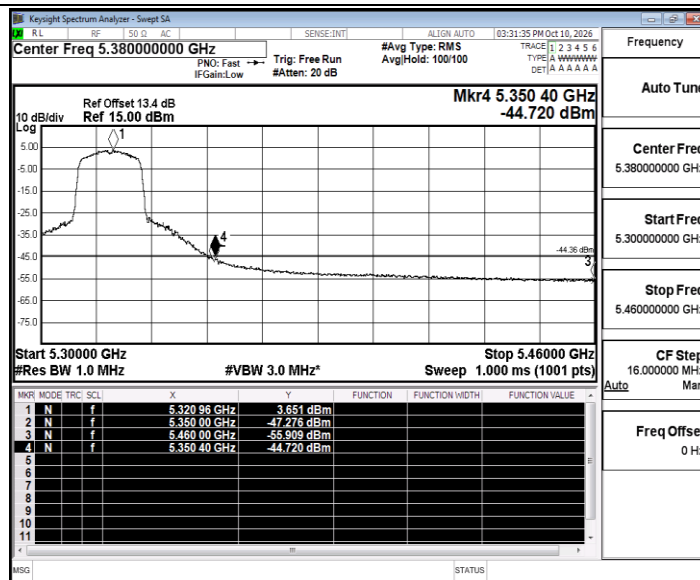
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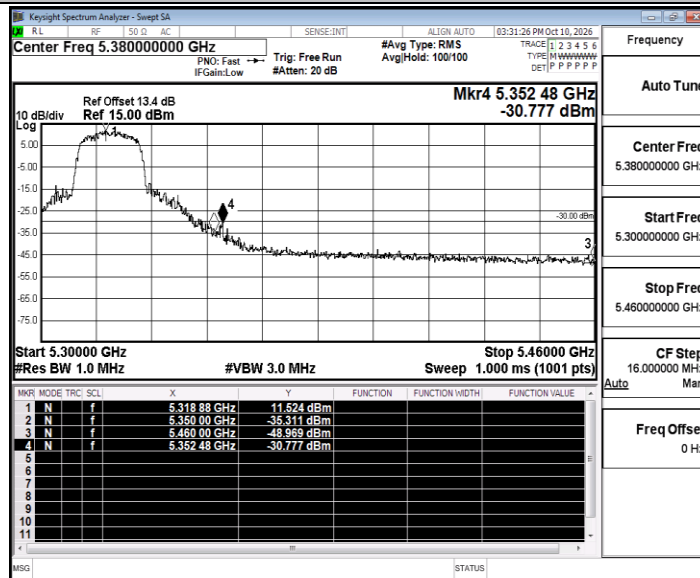
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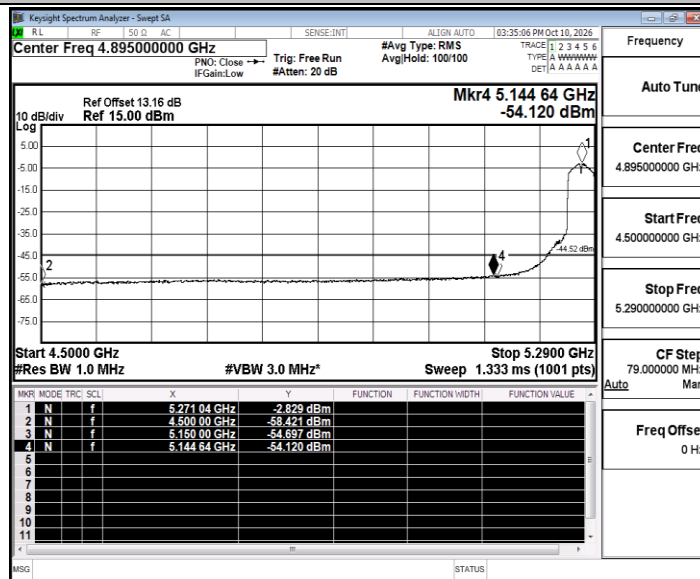
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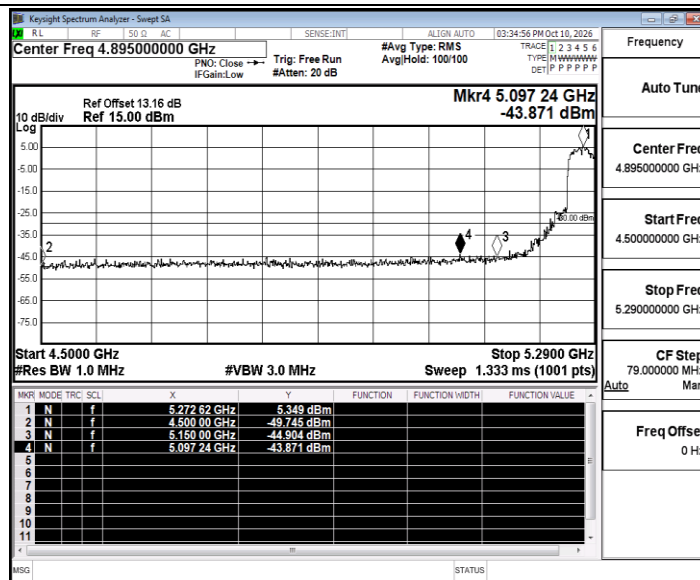
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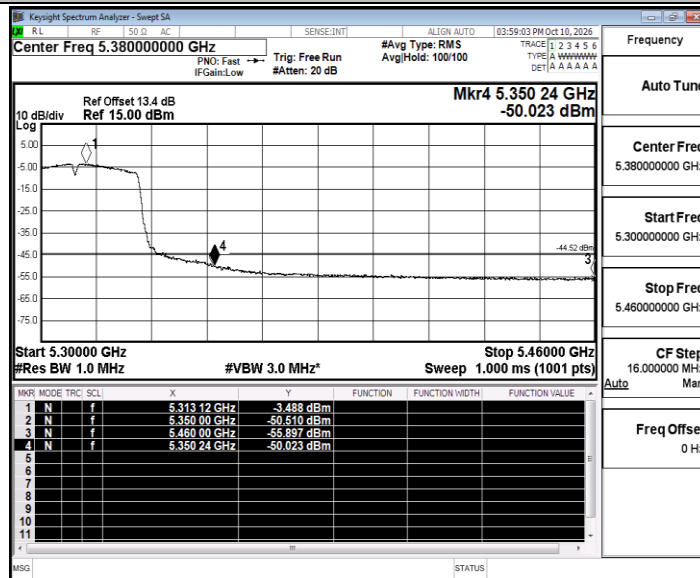
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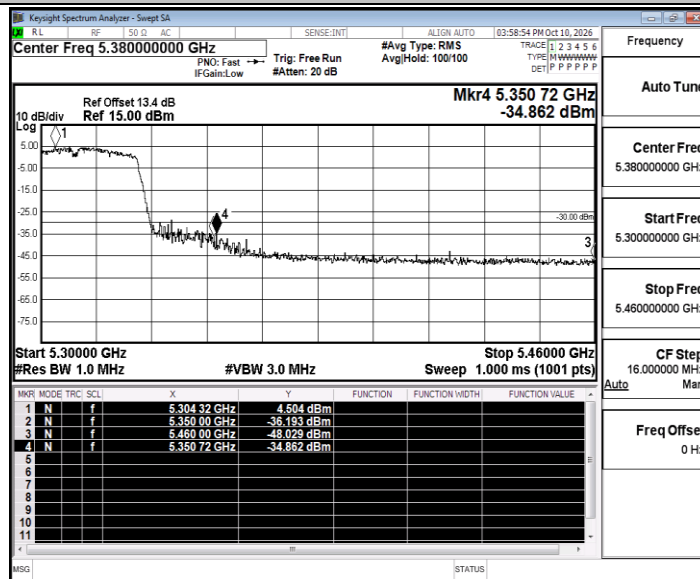
11AC40SISO_Ant1_Low_5270_Peak



11AC40SISO_Ant1_High_5310_AV



11AC40SISO_Ant1_High_5310_Peak



11AX20SISO_Ant1_Low_5260_AV