

Appendix D

RF Test Data for 5.5GWIFI(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

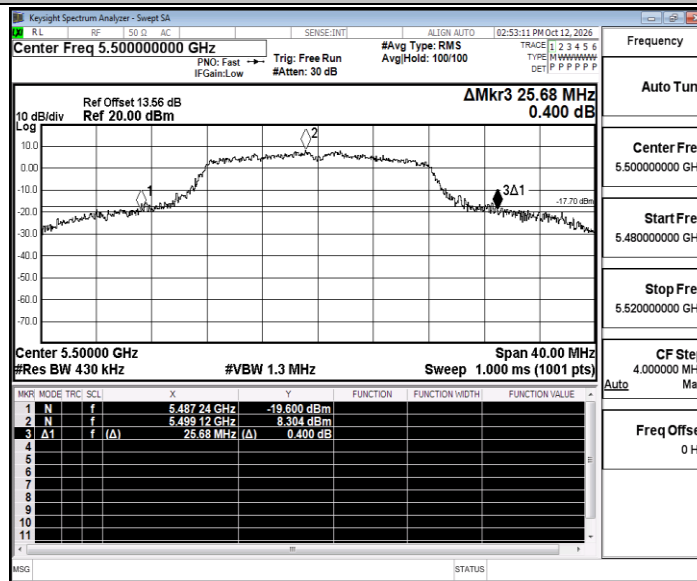
D.1 Emission Bandwidth

Test Result

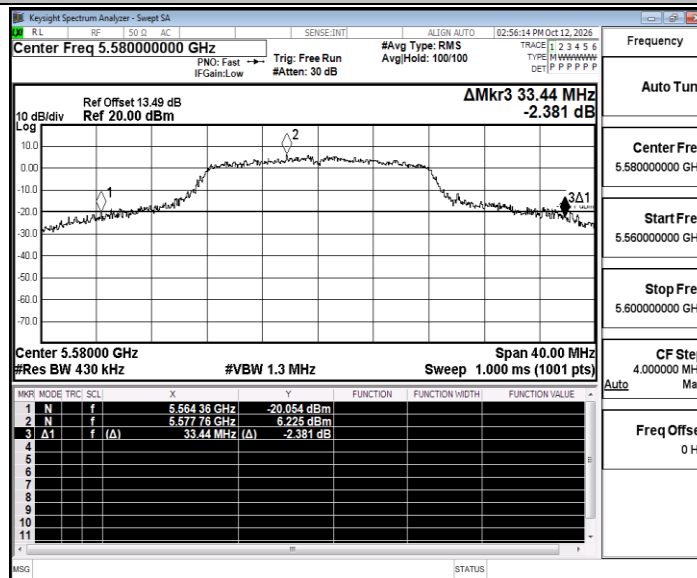
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5500	25.680	5487.240	5512.920	---	---
		5580	33.440	5564.360	5597.800	---	---
		5700	36.280	5681.880	5718.160	---	---
11N20SISO	Ant1	5500	26.080	5486.240	5512.320	---	---
		5580	33.240	5564.800	5598.040	---	---
		5700	38.680	5681.160	5719.840	---	---
11N40SISO	Ant1	5510	67.200	5475.840	5543.040	---	---
		5550	68.480	5515.600	5584.080	---	---
		5670	72.480	5634.000	5706.480	---	---
11AC20SISO	Ant1	5500	30.280	5484.520	5514.800	---	---
		5580	32.200	5564.560	5596.760	---	---
		5700	39.560	5680.160	5719.720	---	---
11AC40SISO	Ant1	5510	60.800	5476.320	5537.120	---	---
		5550	68.400	5514.400	5582.800	---	---
		5670	73.840	5633.440	5707.280	---	---
11AX20SISO	Ant1	5500	28.320	5484.840	5513.160	---	---
		5580	33.160	5564.640	5597.800	---	---
		5700	39.520	5680.400	5719.920	---	---
11AX40SISO	Ant1	5510	61.920	5476.400	5538.320	---	---
		5550	68.640	5516.800	5585.440	---	---
		5670	74.800	5632.800	5707.600	---	---

Test Graphs

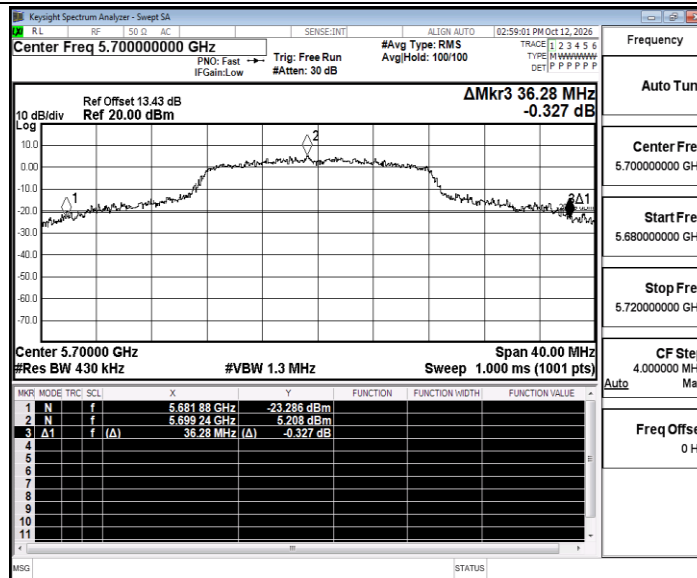
11A_Ant1_5500



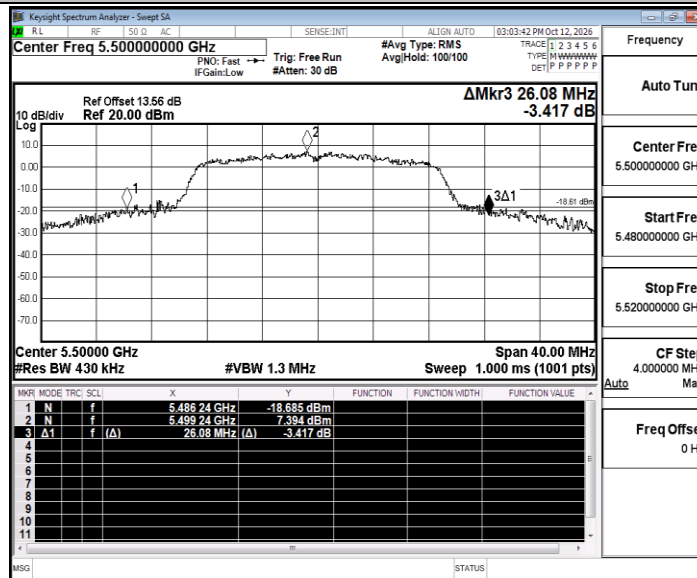
11A_Ant1_5580



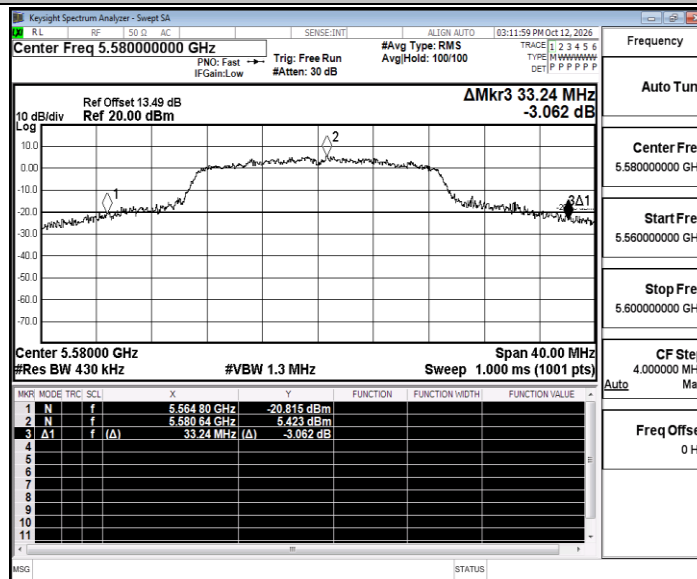
11A_Ant1_5700



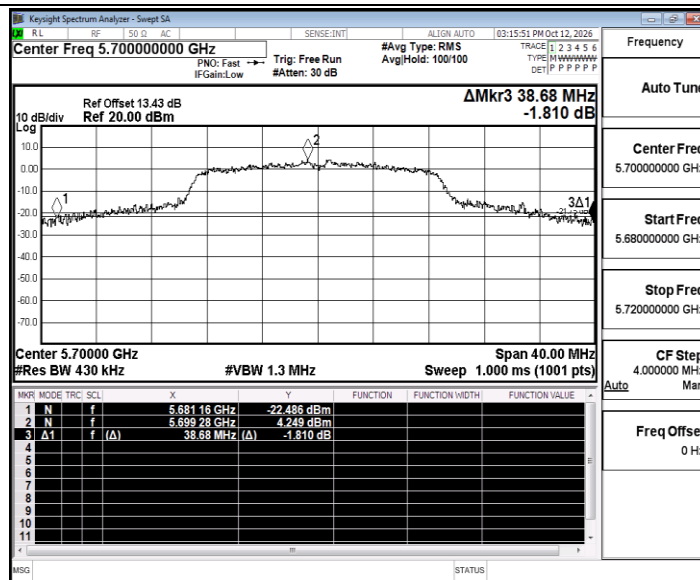
11N20SISO_Ant1_5500



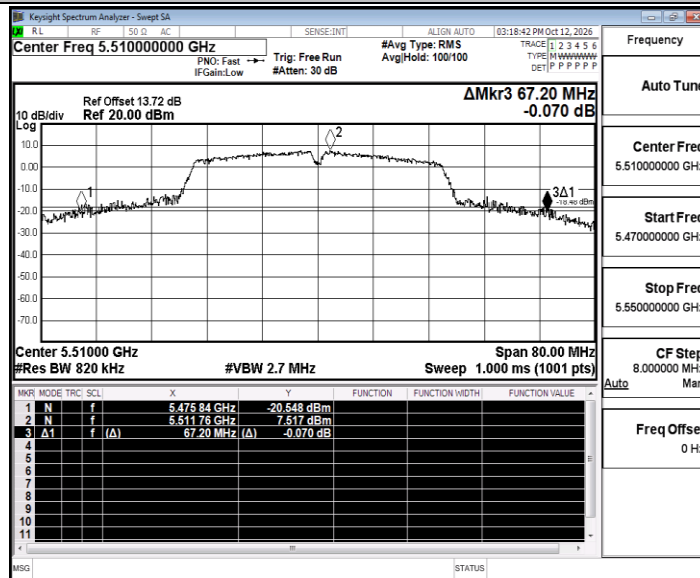
11N20SISO_Ant1_5580



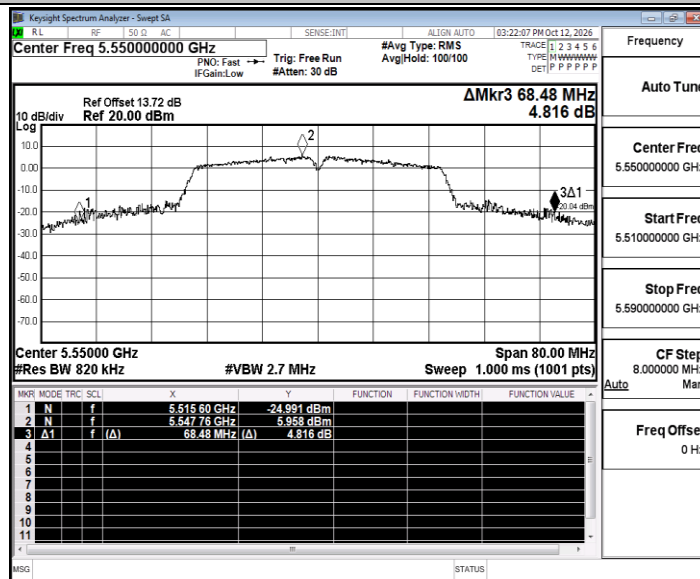
11N20SISO_Ant1_5700



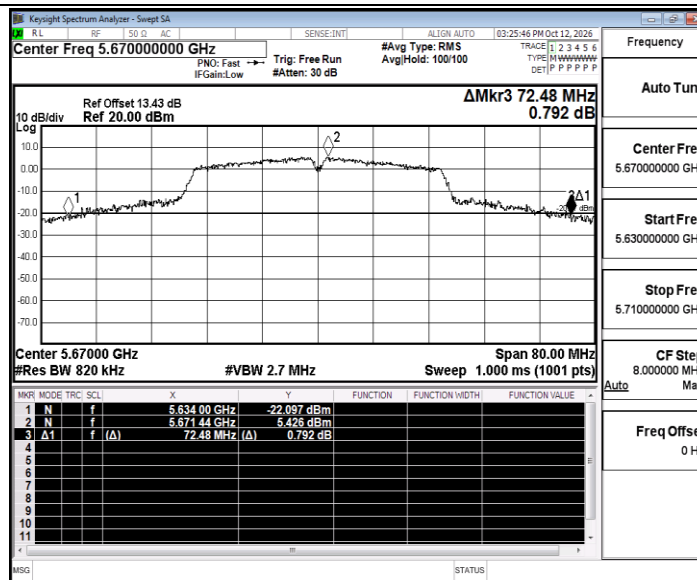
11N40SISO_Ant1_5510



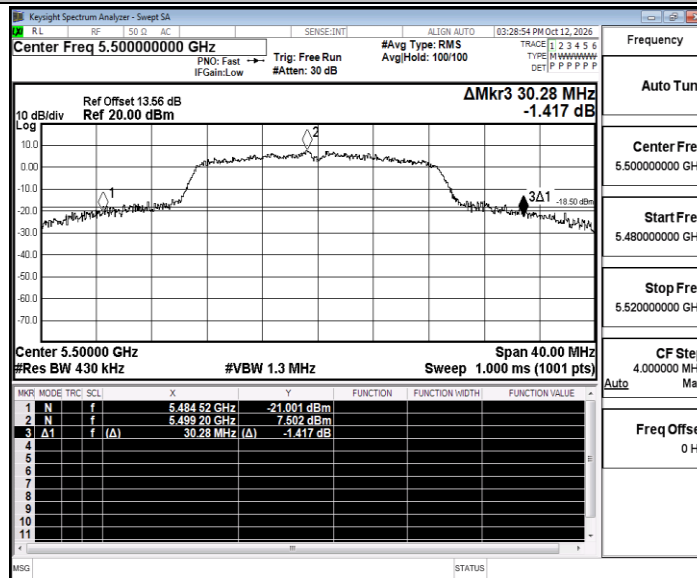
11N40SISO_Ant1_5550



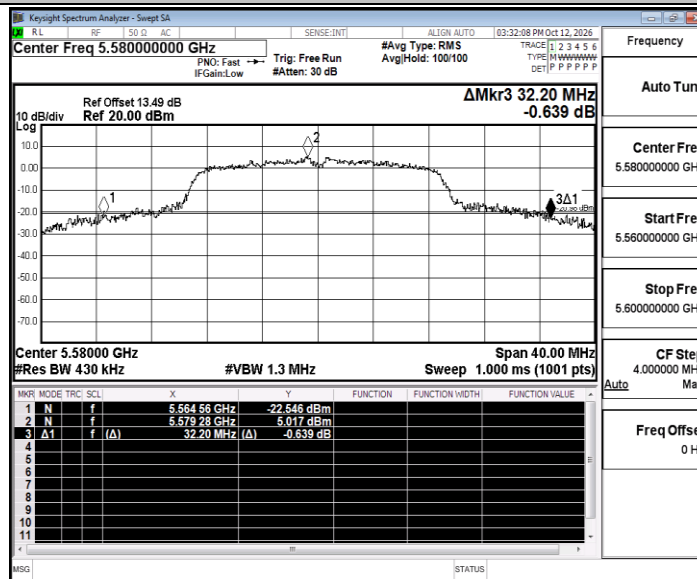
11N40SISO_Ant1_5670



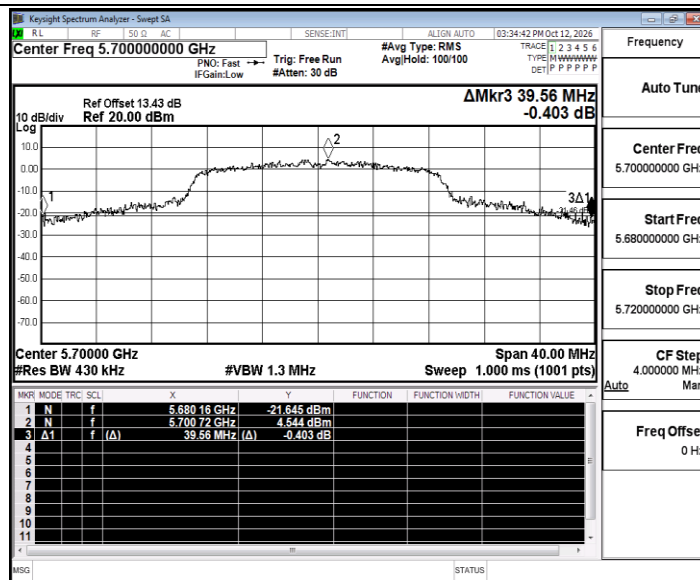
11AC20SISO_Ant1_5500



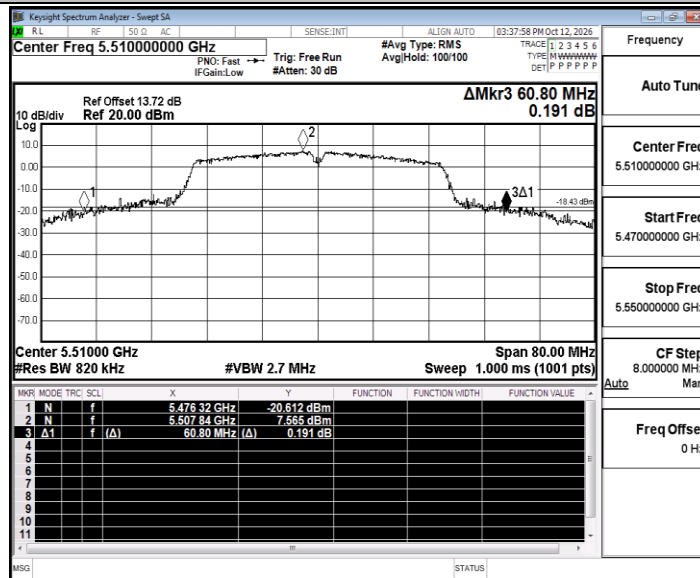
11AC20SISO_Ant1_5580



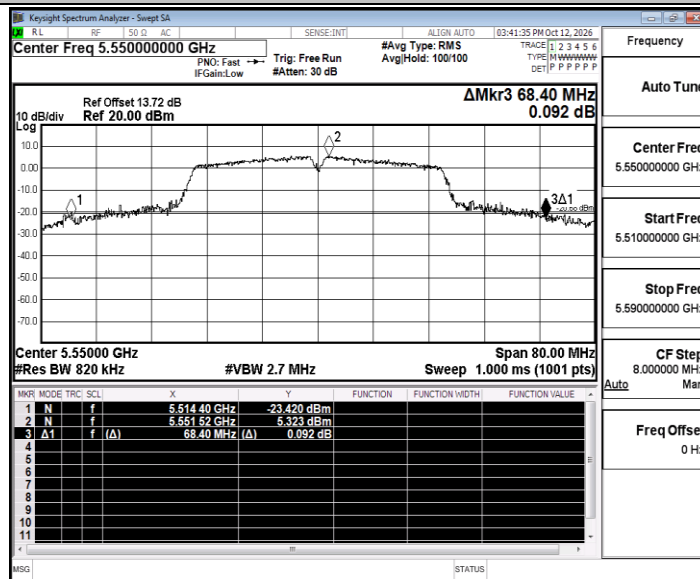
11AC20SISO_Ant1_5700



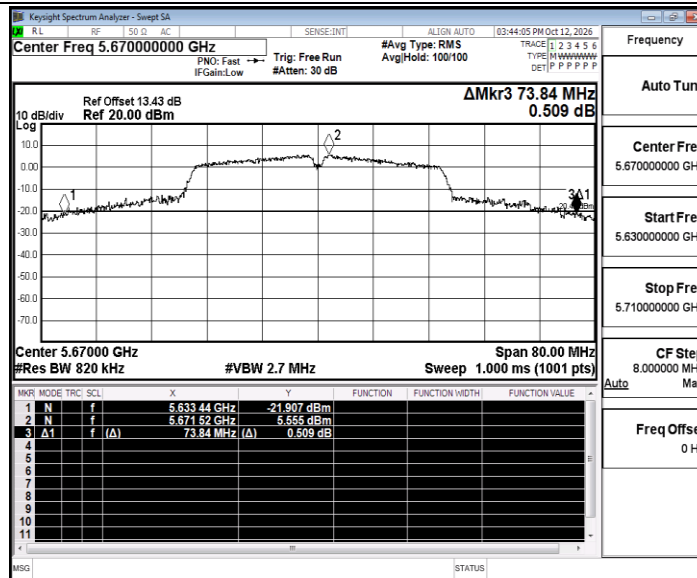
11AC40SISO_Ant1_5510



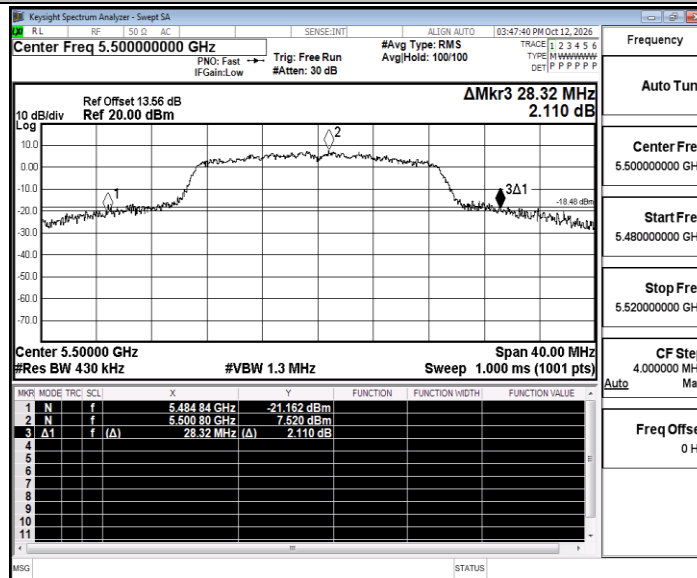
11AC40SISO_Ant1_5550



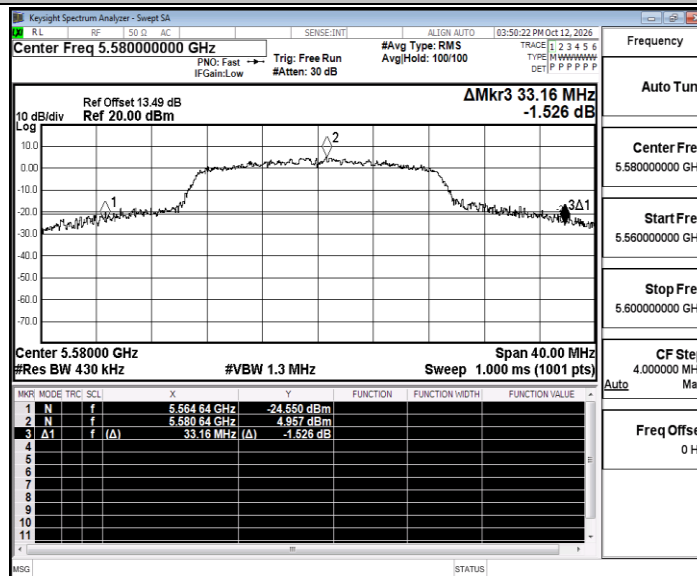
11AC40SISO_Ant1_5670



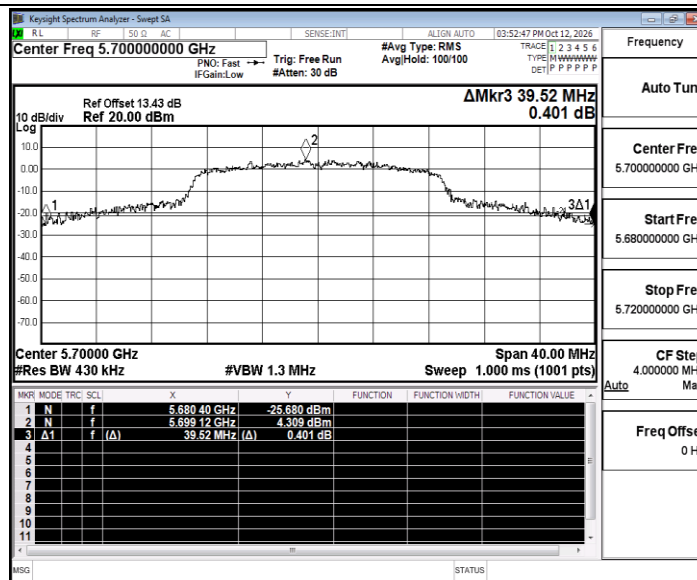
11AX20SISO_Ant1_5500



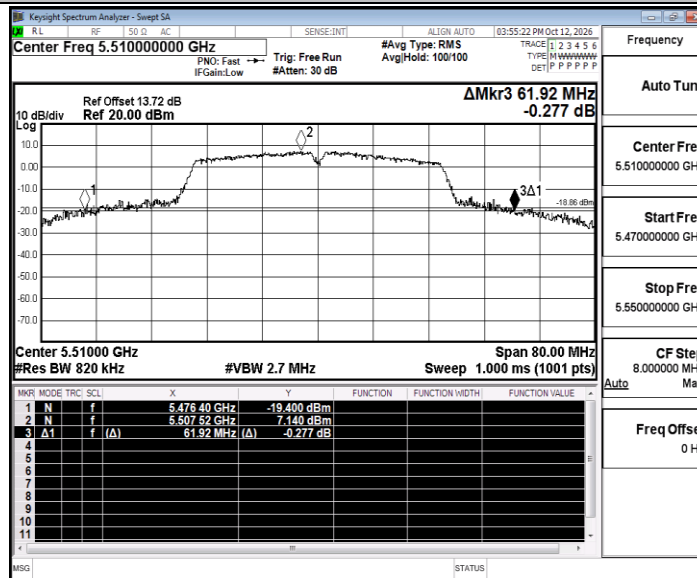
11AX20SISO_Ant1_5580



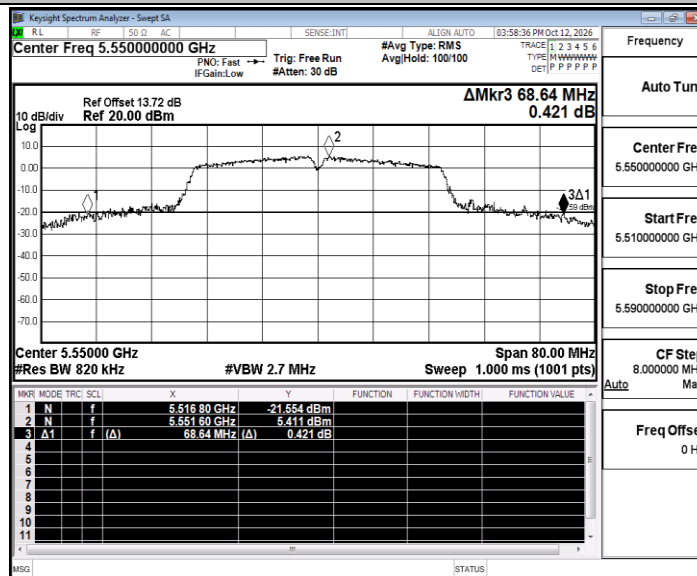
11AX20SISO_Ant1_5700



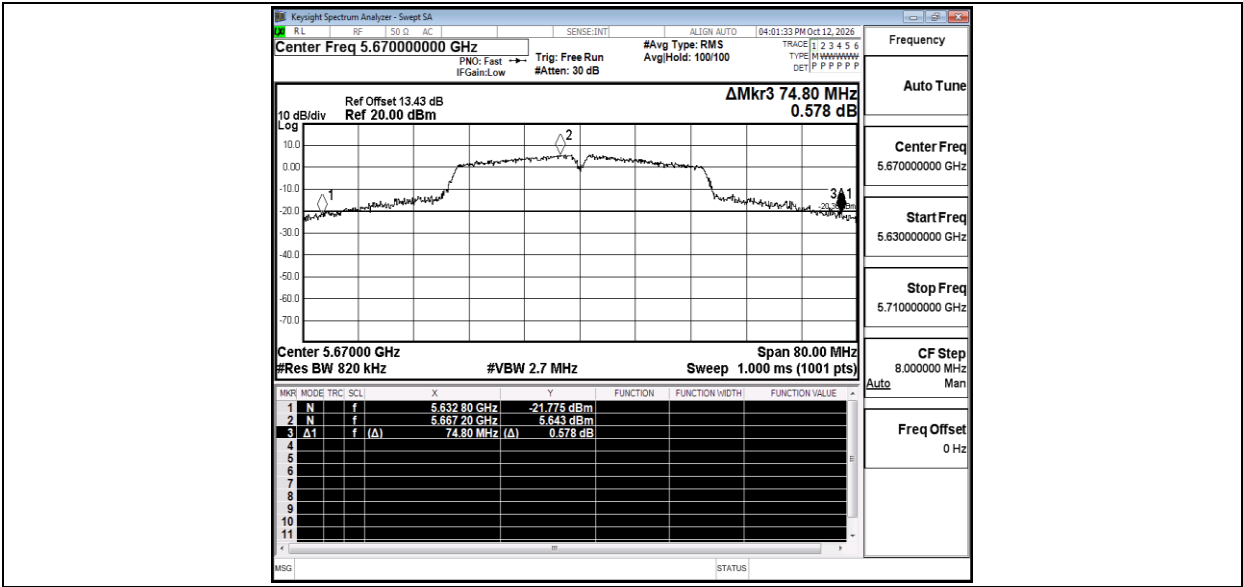
11AX40SISO_Ant1_5510



11AX40SISO_Ant1_5550



11AX40SISO_Ant1_5670



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	5500	NA	7.32	0.12	7.44	≤23.98	PASS
		5580	NA	7.12	0.12	7.24	≤23.98	PASS
		5700	NA	7.3	0.09	7.39	≤23.98	PASS
11N20SISO	Ant1	5500	NA	6.85	0.1	6.95	≤23.98	PASS
		5580	NA	6.84	0.1	6.94	≤23.98	PASS
		5700	NA	6.81	0.13	6.94	≤23.98	PASS
11N40SISO	Ant1	5510	NA	6.56	0.2	6.76	≤23.98	PASS
		5550	NA	6.69	0.2	6.89	≤23.98	PASS
		5670	NA	6.86	0.2	7.06	≤23.98	PASS
11AC20SISO	Ant1	5500	NA	5.99	0.13	6.12	≤23.98	PASS
		5580	NA	6.59	0.13	6.72	≤23.98	PASS
		5700	NA	6.62	0.1	6.72	≤23.98	PASS
11AC40SISO	Ant1	5510	NA	6.07	0.26	6.33	≤23.98	PASS
		5550	NA	7.52	0.19	7.71	≤23.98	PASS
		5670	NA	7.19	0.19	7.38	≤23.98	PASS
11AX20SISO	Ant1	5500	NA	7.06	0.1	7.16	≤23.98	PASS
		5580	NA	6.57	0.1	6.67	≤23.98	PASS
		5700	NA	6.51	0.1	6.61	≤23.98	PASS
11AX40SISO	Ant1	5510	NA	6.19	0.19	6.38	≤23.98	PASS
		5550	NA	6.73	0.19	6.92	≤23.98	PASS
		5670	NA	6.71	0.19	6.9	≤23.98	PASS

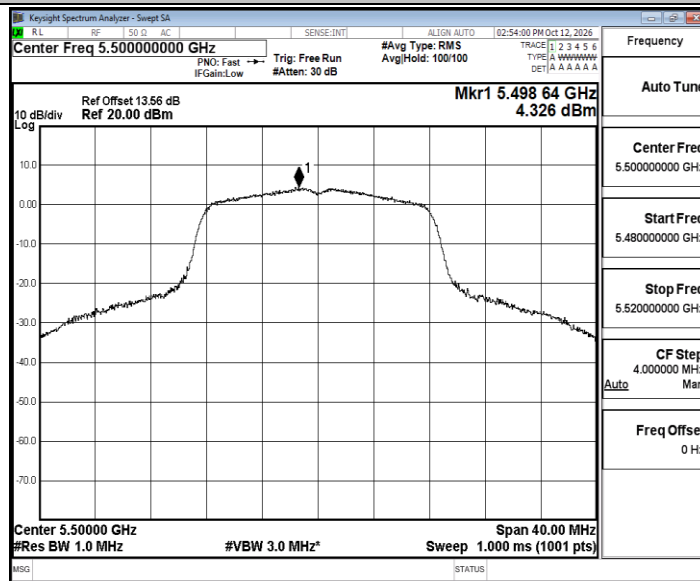
D.3 Maximum power spectral density

Test Result

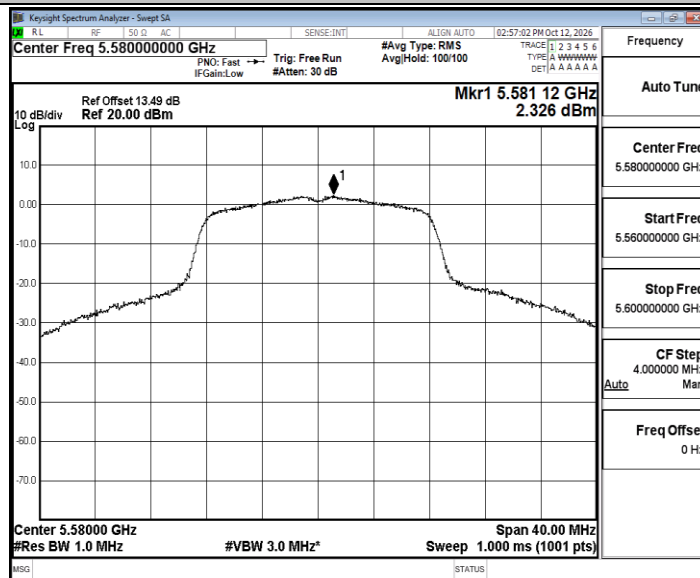
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5500	4.33	0.12	4.45	≤11.00	PASS
		5580	2.33	0.12	2.45	≤11.00	PASS
		5700	1.46	0.09	1.55	≤11.00	PASS
11N20SISO	Ant1	5500	3.88	0.1	3.98	≤11.00	PASS
		5580	2.06	0.1	2.16	≤11.00	PASS
		5700	0.44	0.13	0.57	≤11.00	PASS
11N40SISO	Ant1	5510	0.93	0.2	1.13	≤11.00	PASS
		5550	-0.8	0.2	-0.6	≤11.00	PASS
		5670	-0.89	0.2	-0.69	≤11.00	PASS
11AC20SISO	Ant1	5500	3.65	0.13	3.78	≤11.00	PASS
		5580	1.33	0.13	1.46	≤11.00	PASS
		5700	0.71	0.1	0.81	≤11.00	PASS
11AC40SISO	Ant1	5510	1.09	0.26	1.35	≤11.00	PASS
		5550	-1.02	0.19	-0.83	≤11.00	PASS
		5670	-1.06	0.19	-0.87	≤11.00	PASS
11AX20SISO	Ant1	5500	3.8	0.1	3.9	≤11.00	PASS
		5580	1.47	0.1	1.57	≤11.00	PASS
		5700	0.73	0.1	0.83	≤11.00	PASS
11AX40SISO	Ant1	5510	0.76	0.19	0.95	≤11.00	PASS
		5550	-1.18	0.19	-0.99	≤11.00	PASS
		5670	-0.91	0.19	-0.72	≤11.00	PASS

Test Graphs

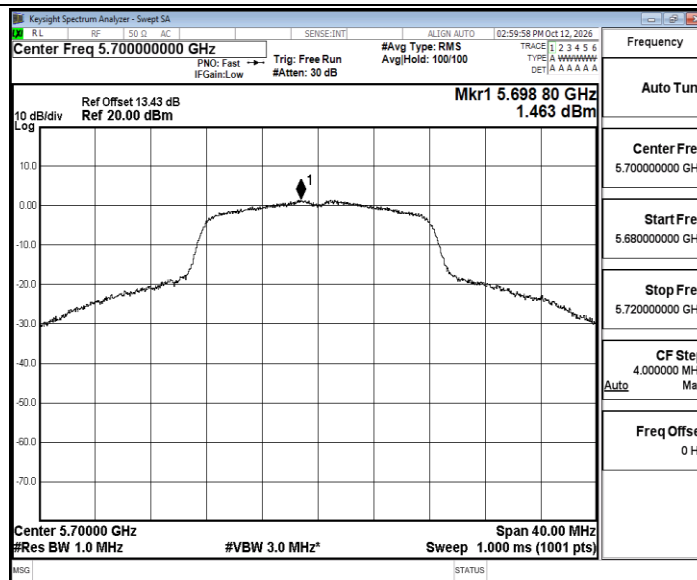
11A_Ant1_5500



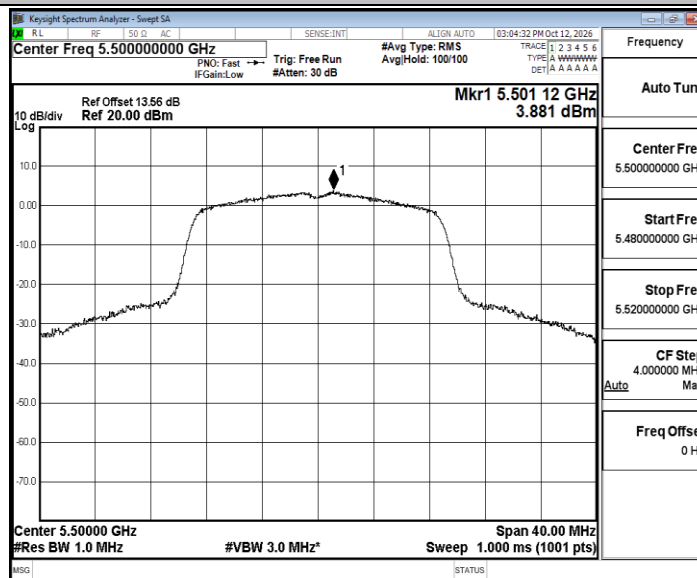
11A_Ant1_5580



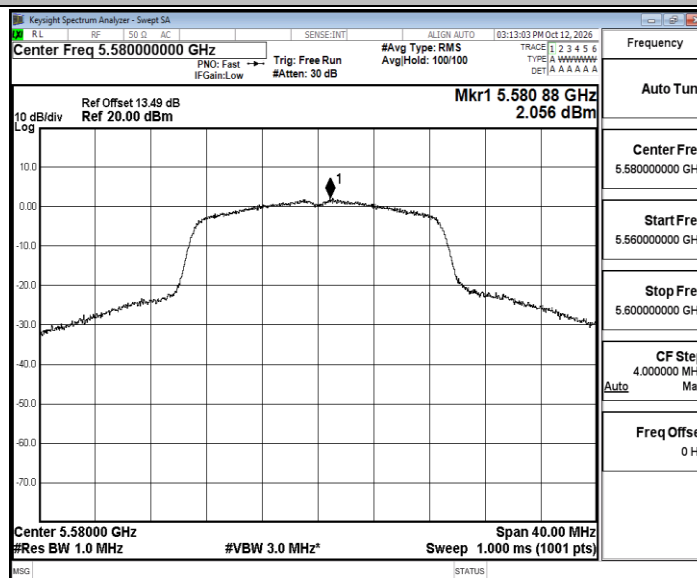
11A_Ant1_5700



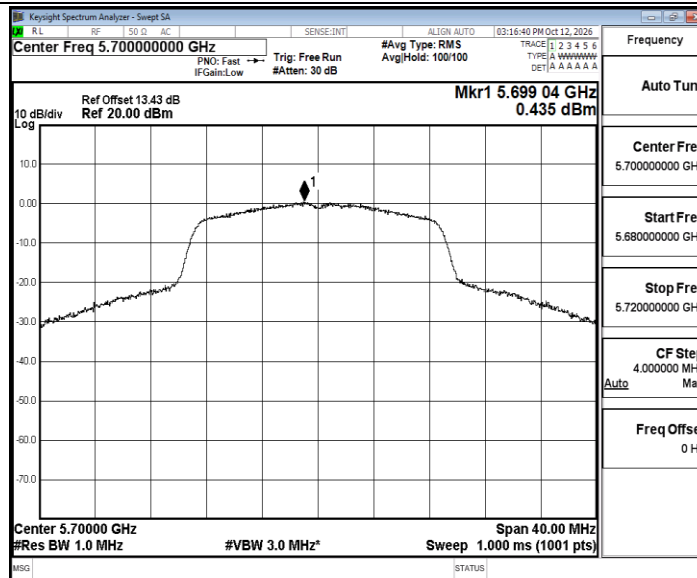
11N20SISO_Ant1_5500



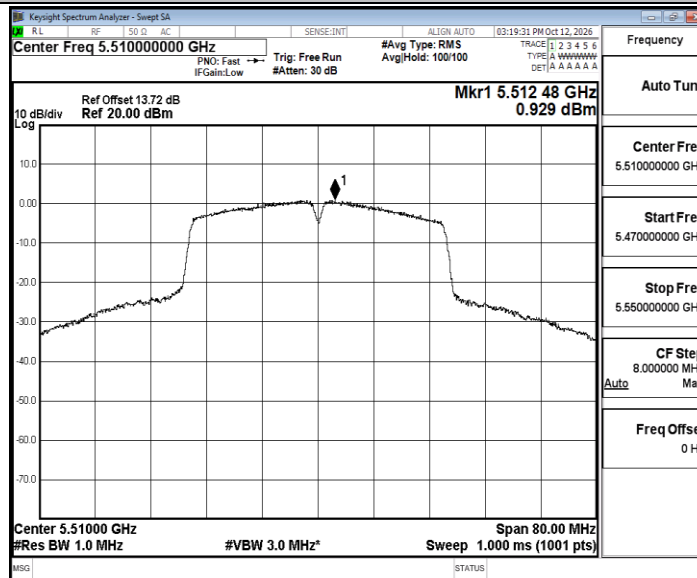
11N20SISO_Ant1_5580



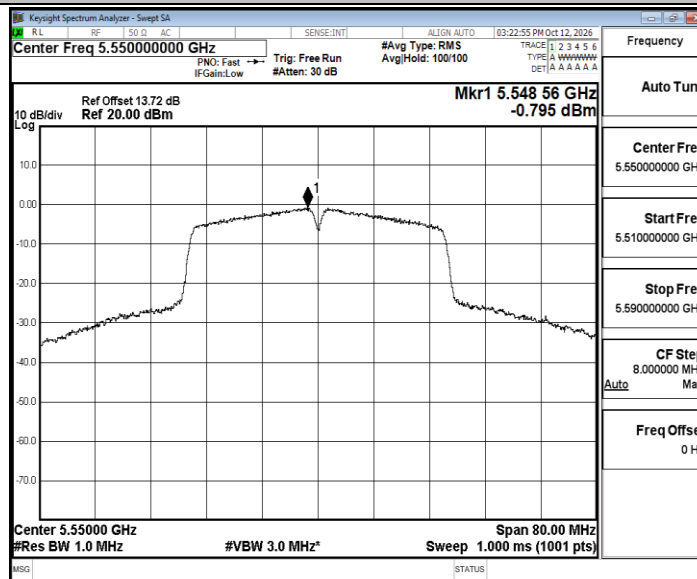
11N20SISO_Ant1_5700



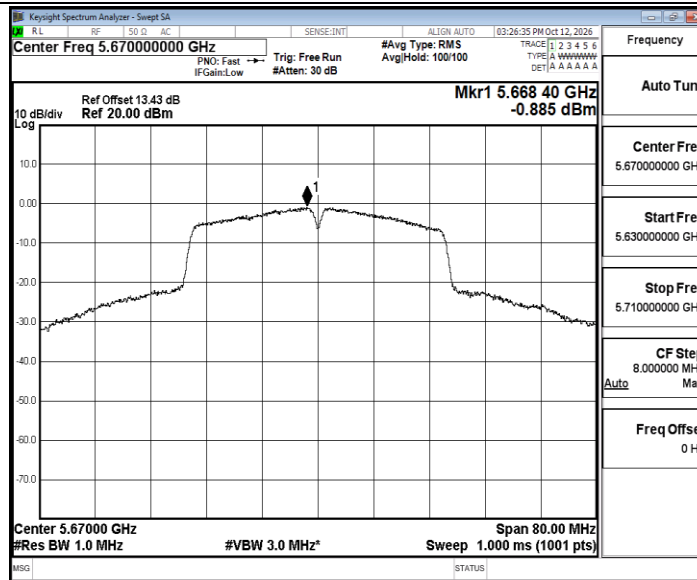
11N40SISO_Ant1_5510



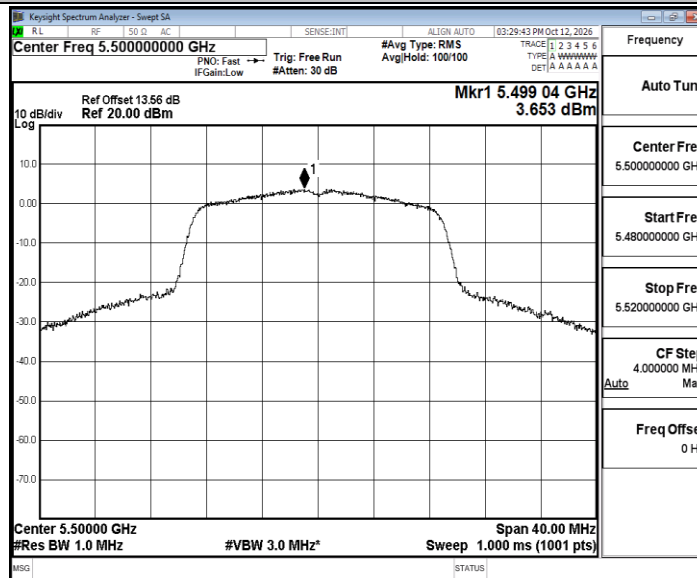
11N40SISO_Ant1_5550



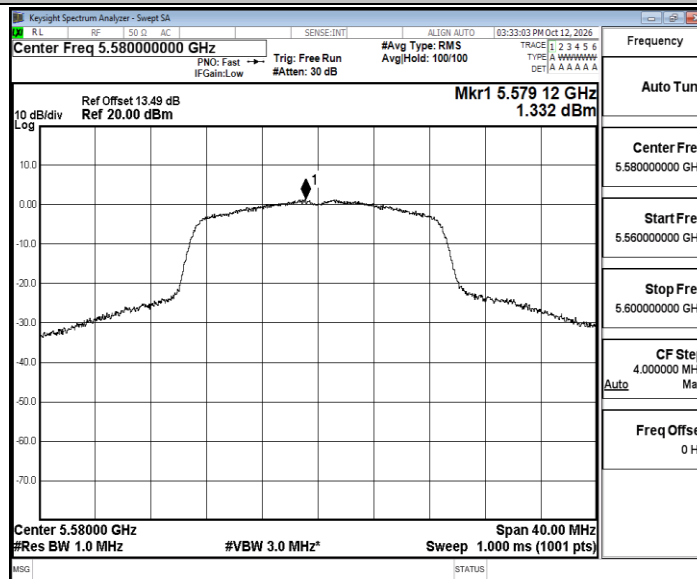
11N40SISO_Ant1_5670



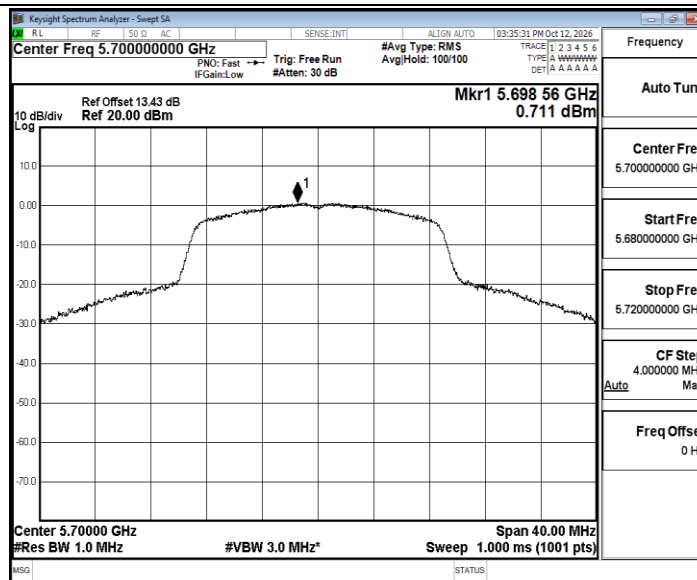
11AC20SISO_Ant1_5500



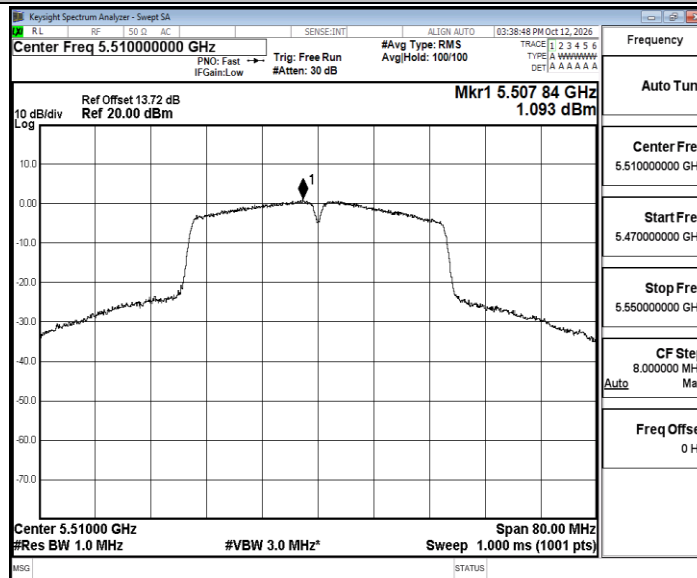
11AC20SISO_Ant1_5580



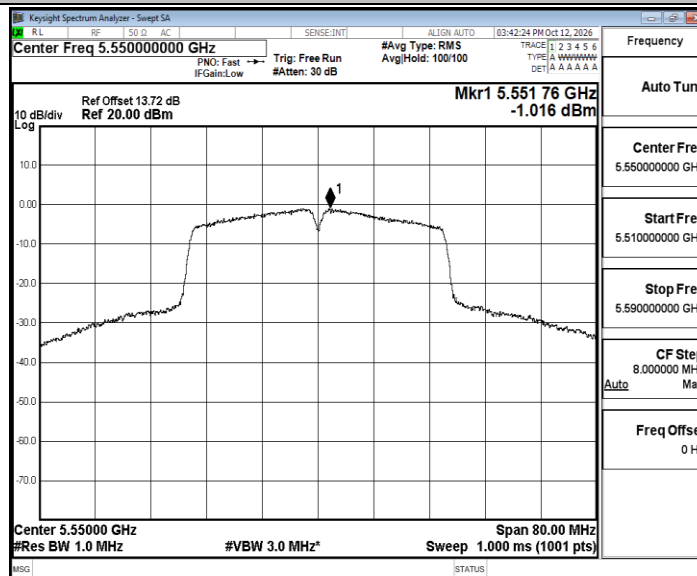
11AC20SISO_Ant1_5700



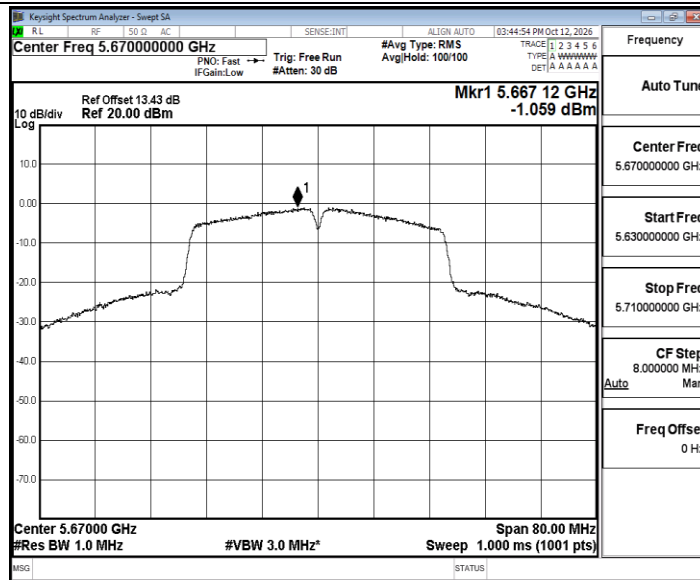
11AC40SISO_Ant1_5510



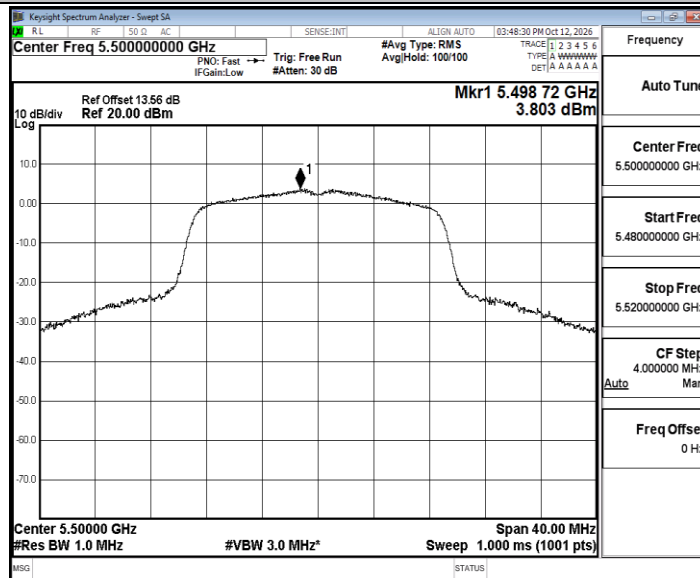
11AC40SISO_Ant1_5550



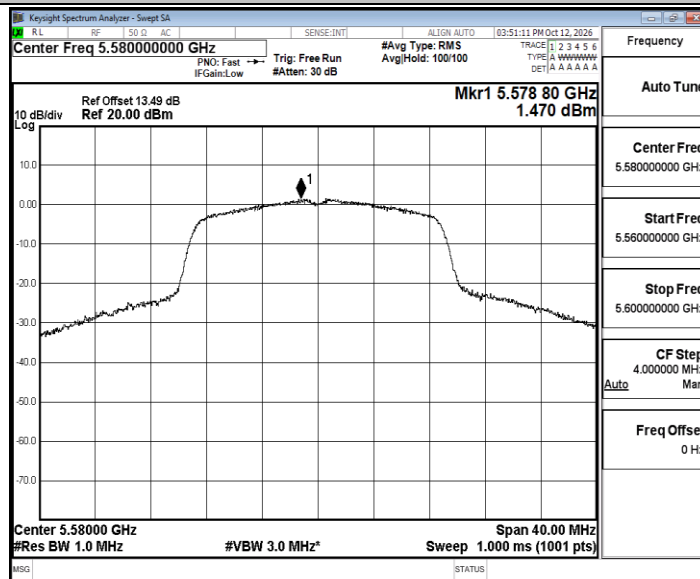
11AC40SISO_Ant1_5670



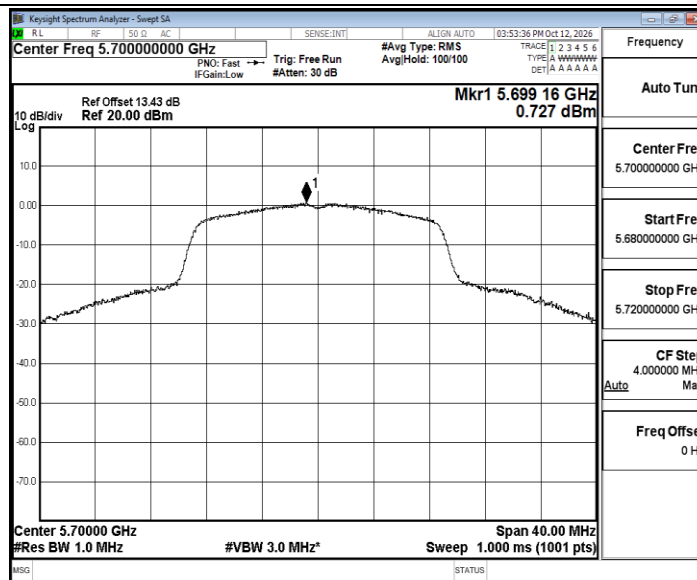
11AX20SISO_Ant1_5500



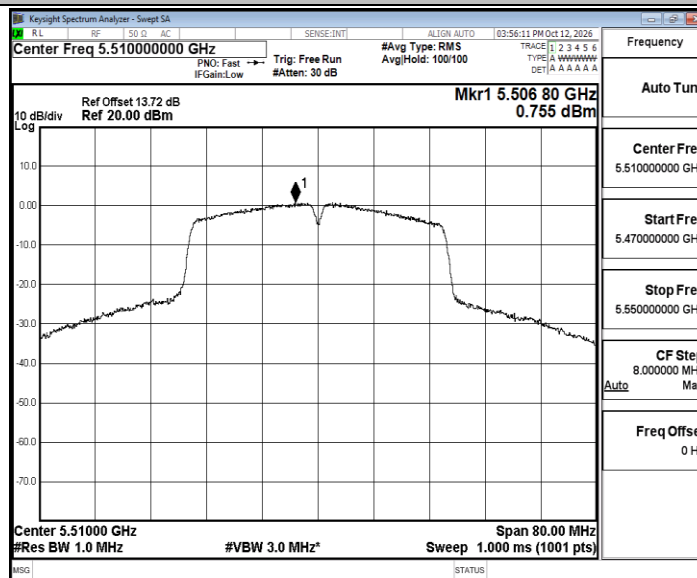
11AX20SISO_Ant1_5580



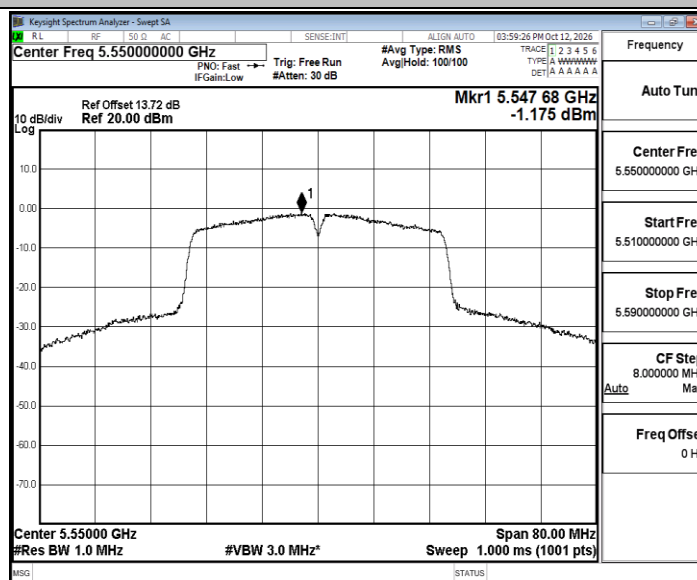
11AX20SISO_Ant1_5700



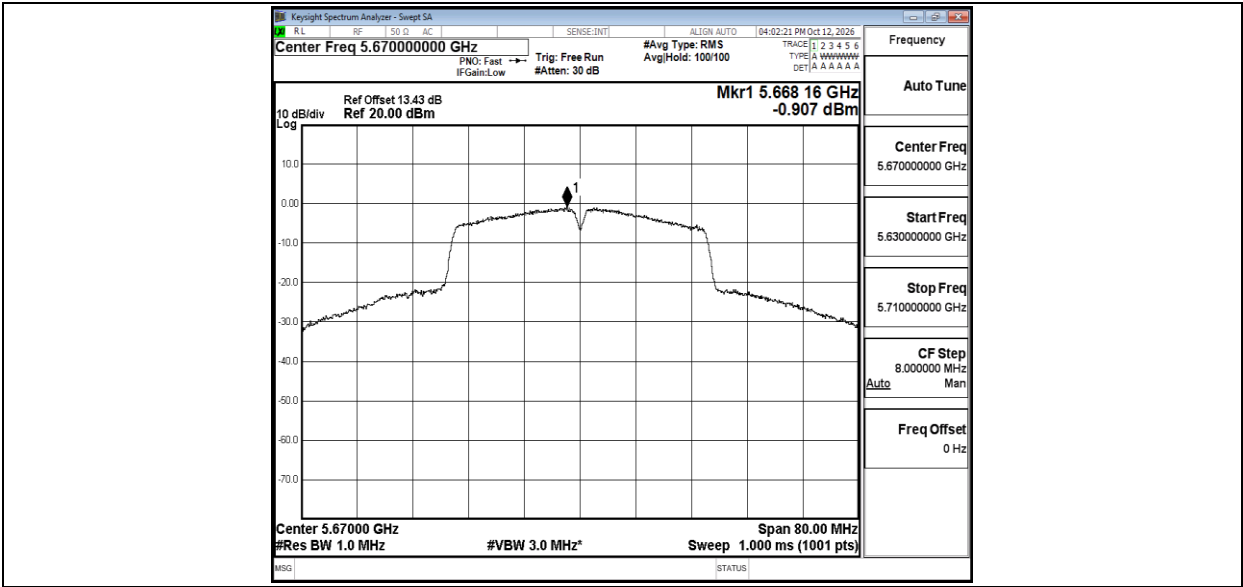
11AX40SISO_Ant1_5510



11AX40SISO_Ant1_5550



11AX40SISO_Ant1_5670



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	5500	AV	5350.000	-55.88	≤-44.32	4.91	0.12	44.38	≤54	PASS
				AV	5458.550	-49.22	≤-44.32	4.91	0.12	51.04	≤54	PASS
				AV	5460.000	-49.68	≤-44.32	4.91	0.12	50.58	≤54	PASS
				Peak	5350.000	-47.78	≤-30.00	4.91	0	52.36	≤68.2	PASS
				Peak	5459.600	-34.81	≤-30.00	4.91	0	65.33	≤68.2	PASS
				Peak	5460.000	-38.85	≤-30.00	4.91	0	61.29	≤68.2	PASS
		High	5700	AV	5725.000	-46.51	≤-44.29	4.91	0.09	53.72	≤54	PASS
				AV	5726.290	-47.09	≤-44.29	4.91	0.09	53.14	≤54	PASS
				AV	5735.000	-53.02	≤-44.29	4.91	0.09	47.21	≤54	PASS
				Peak	5725.000	-36.55	≤-30.00	4.91	0	63.59	≤68.2	PASS
				Peak	5725.340	-34.38	≤-30.00	4.91	0	65.76	≤68.2	PASS
				Peak	5735.000	-43.86	≤-30.00	4.91	0	56.28	≤68.2	PASS
11N2 OSIS O	Ant1	Low	5500	AV	5350.000	-55.83	≤-44.30	4.91	0.1	44.41	≤54	PASS
				AV	5459.600	-49.68	≤-44.30	4.91	0.1	50.56	≤54	PASS
				AV	5460.000	-50.04	≤-44.30	4.91	0.1	50.20	≤54	PASS
				Peak	5350.000	-46.65	≤-30.00	4.91	0	53.49	≤68.2	PASS
				Peak	5456.450	-34.95	≤-30.00	4.91	0	65.19	≤68.2	PASS
				Peak	5460.000	-35.13	≤-30.00	4.91	0	65.01	≤68.2	PASS
		High	5700	AV	5725.000	-49.25	≤-44.33	4.91	0.13	51.02	≤54	PASS
				AV	5725.720	-49.93	≤-44.33	4.91	0.13	50.34	≤54	PASS
				AV	5735.000	-54.28	≤-44.33	4.91	0.13	45.99	≤54	PASS
				Peak	5725.000	-40.98	≤-30.00	4.91	0	59.16	≤68.2	PASS
				Peak	5725.910	-32.54	≤-30.00	4.91	0	67.60	≤68.2	PASS
				Peak	5735.000	-47.33	≤-30.00	4.91	0	52.81	≤68.2	PASS
11N4 OSIS O	Ant1	Low	5510	AV	5350.000	-55.14	≤-44.40	4.91	0.2	45.20	≤54	PASS
				AV	5459.720	-50.52	≤-44.40	4.91	0.2	49.82	≤54	PASS
				AV	5460.000	-50.65	≤-44.40	4.91	0.2	49.69	≤54	PASS
				Peak	5350.000	-45.6	≤-30.00	4.91	0	54.54	≤68.2	PASS
				Peak	5458.400	-38.52	≤-30.00	4.91	0	61.62	≤68.2	PASS
				Peak	5460.000	-40.97	≤-30.00	4.91	0	59.17	≤68.2	PASS
		High	5670	AV	5725.000	-52.18	≤-44.40	4.91	0.2	48.16	≤54	PASS
				AV	5725.440	-51.21	≤-44.40	4.91	0.2	49.13	≤54	PASS
				AV	5735.000	-53.68	≤-44.40	4.91	0.2	46.66	≤54	PASS
				Peak	5725.000	-44.18	≤-30.00	4.91	0	55.96	≤68.2	PASS
				Peak	5726.590	-35.04	≤-30.00	4.91	0	65.10	≤68.2	PASS
				Peak	5735.000	-44.21	≤-30.00	4.91	0	55.93	≤68.2	PASS
11AC	Ant1	Low	5500	AV	5350.000	-55.2	≤-44.33	4.91	0.13	45.07	≤54	PASS

20SI SO				AV	5458.760	-48.53	≤-44.33	4.91	0.13	51.74	≤54	PASS
				AV	5460.000	-48.58	≤-44.33	4.91	0.13	51.69	≤54	PASS
				Peak	5350.000	-47.65	≤-30.00	4.91	0	52.49	≤68.2	PASS
				Peak	5452.460	-36.87	≤-30.00	4.91	0	63.27	≤68.2	PASS
				Peak	5460.000	-34.86	≤-30.00	4.91	0	65.28	≤68.2	PASS
		High	5700	AV	5725.000	-48.83	≤-44.30	4.91	0.1	51.41	≤54	PASS
				AV	5725.720	-48.75	≤-44.30	4.91	0.1	51.49	≤54	PASS
				AV	5735.000	-54.64	≤-44.30	4.91	0.1	45.60	≤54	PASS
				Peak	5725.000	-37.86	≤-30.00	4.91	0	62.28	≤68.2	PASS
				Peak	5726.290	-36.94	≤-30.00	4.91	0	63.20	≤68.2	PASS
				Peak	5735.000	-44.02	≤-30.00	4.91	0	56.12	≤68.2	PASS
11AC 40SI SO	Ant1	Low	5510	AV	5350.000	-55.44	≤-44.46	4.91	0.26	44.96	≤54	PASS
				AV	5458.180	-50.34	≤-44.46	4.91	0.26	50.06	≤54	PASS
				AV	5460.000	-50.66	≤-44.46	4.91	0.26	49.74	≤54	PASS
				Peak	5350.000	-47.76	≤-30.00	4.91	0	52.38	≤68.2	PASS
				Peak	5459.500	-39.55	≤-30.00	4.91	0	60.59	≤68.2	PASS
				Peak	5460.000	-40.29	≤-30.00	4.91	0	59.85	≤68.2	PASS
		High	5670	AV	5725.000	-52.23	≤-44.39	4.91	0.19	48.10	≤54	PASS
				AV	5729.350	-52.46	≤-44.39	4.91	0.19	47.87	≤54	PASS
				AV	5735.000	-54.46	≤-44.39	4.91	0.19	45.87	≤54	PASS
				Peak	5725.000	-44.51	≤-30.00	4.91	0	55.63	≤68.2	PASS
				Peak	5728.660	-41.36	≤-30.00	4.91	0	58.78	≤68.2	PASS
				Peak	5735.000	-47.03	≤-30.00	4.91	0	53.11	≤68.2	PASS
11AX 20SI SO	Ant1	Low	5500	AV	5350.000	-54.99	≤-44.30	4.91	0.1	45.25	≤54	PASS
				AV	5458.970	-48.33	≤-44.30	4.91	0.1	51.91	≤54	PASS
				AV	5460.000	-48.6	≤-44.30	4.91	0.1	51.64	≤54	PASS
				Peak	5350.000	-45.58	≤-30.00	4.91	0	54.56	≤68.2	PASS
				Peak	5458.550	-34.81	≤-30.00	4.91	0	65.33	≤68.2	PASS
				Peak	5460.000	-41.07	≤-30.00	4.91	0	59.07	≤68.2	PASS
		High	5700	AV	5725.000	-48.19	≤-44.30	4.91	0.1	52.05	≤54	PASS
				AV	5725.150	-48.55	≤-44.30	4.91	0.1	51.69	≤54	PASS
				AV	5735.000	-54.01	≤-44.30	4.91	0.1	46.23	≤54	PASS
				Peak	5725.000	-38.12	≤-30.00	4.91	0	62.02	≤68.2	PASS
				Peak	5725.910	-36.37	≤-30.00	4.91	0	63.77	≤68.2	PASS
				Peak	5735.000	-45.14	≤-30.00	4.91	0	55.00	≤68.2	PASS
11AX 40SI SO	Ant1	Low	5510	AV	5350.000	-55.39	≤-44.39	4.91	0.19	44.94	≤54	PASS
				AV	5459.280	-50.52	≤-44.39	4.91	0.19	49.81	≤54	PASS
				AV	5460.000	-51.19	≤-44.39	4.91	0.19	49.14	≤54	PASS
				Peak	5350.000	-46.92	≤-30.00	4.91	0	53.22	≤68.2	PASS
				Peak	5458.620	-39.71	≤-30.00	4.91	0	60.43	≤68.2	PASS
				Peak	5460.000	-41.58	≤-30.00	4.91	0	58.56	≤68.2	PASS
		High	5670	AV	5725.000	-52.73	≤-44.39	4.91	0.19	47.60	≤54	PASS
				AV	5725.210	-52.06	≤-44.39	4.91	0.19	48.27	≤54	PASS
				AV	5735.000	-55.33	≤-44.39	4.91	0.19	45.00	≤54	PASS

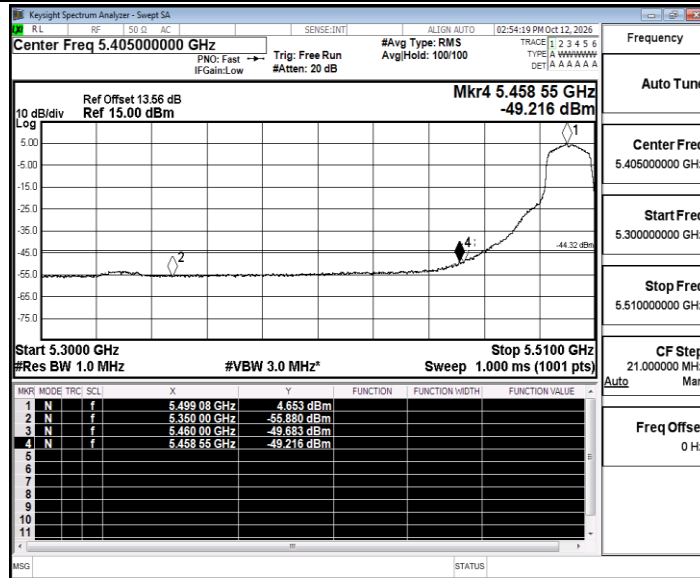
				Peak	5725.000	-40.52	≤-30.00	4.91	0	59.62	≤68.2	PASS
				Peak	5728.430	-40.46	≤-30.00	4.91	0	59.68	≤68.2	PASS
				Peak	5735.000	-45.2	≤-30.00	4.91	0	54.94	≤68.2	PASS

Note:

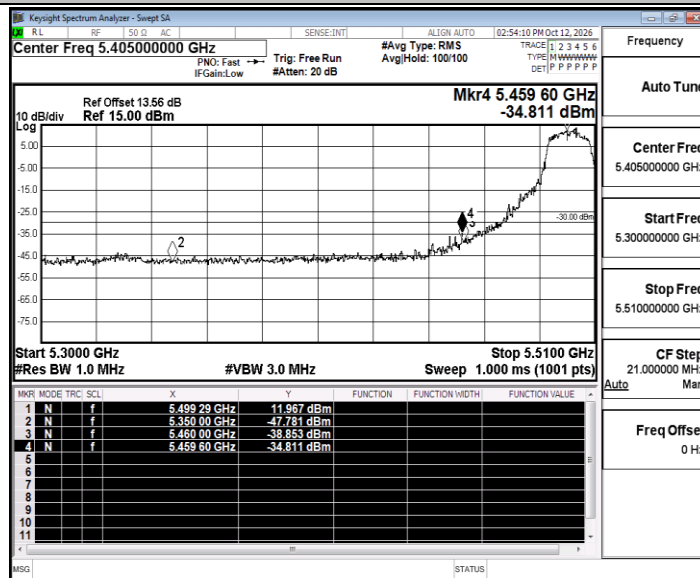
1. The Antenna Gain is compensated in the graph.

Test Graphs

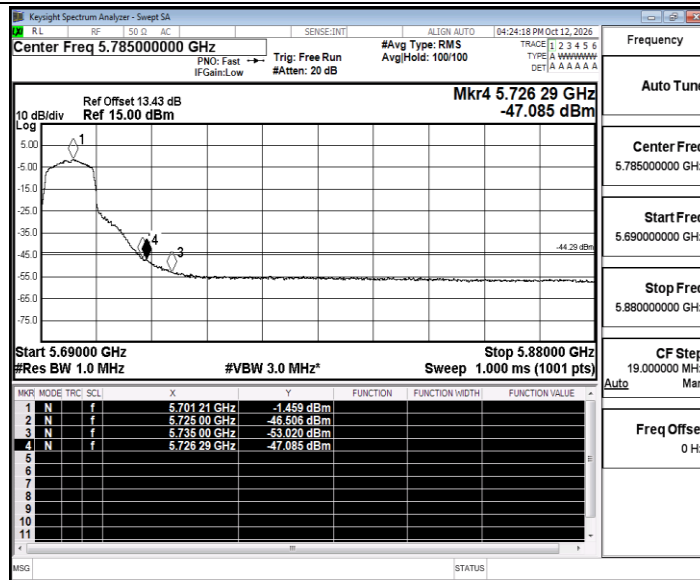
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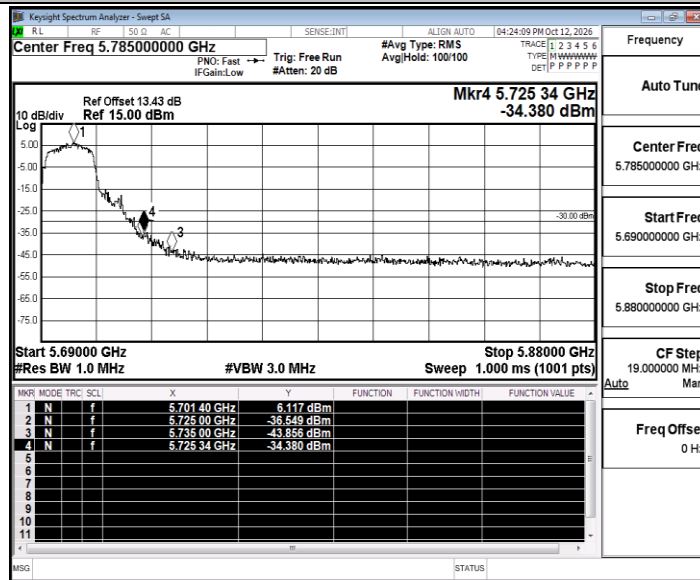
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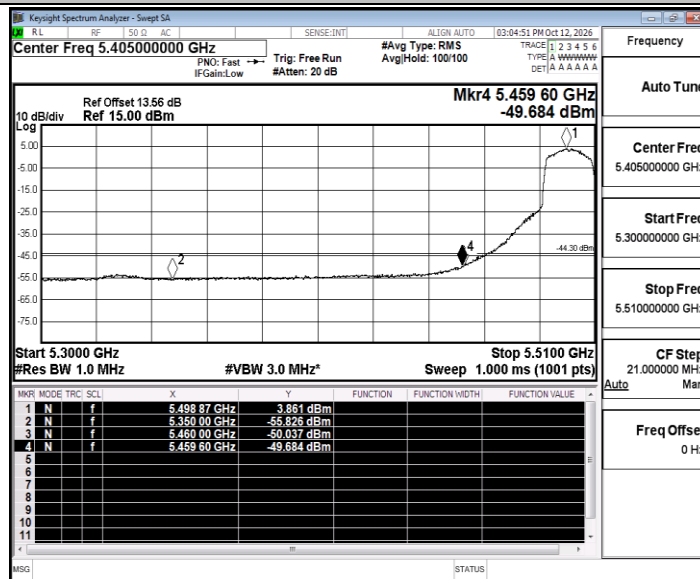
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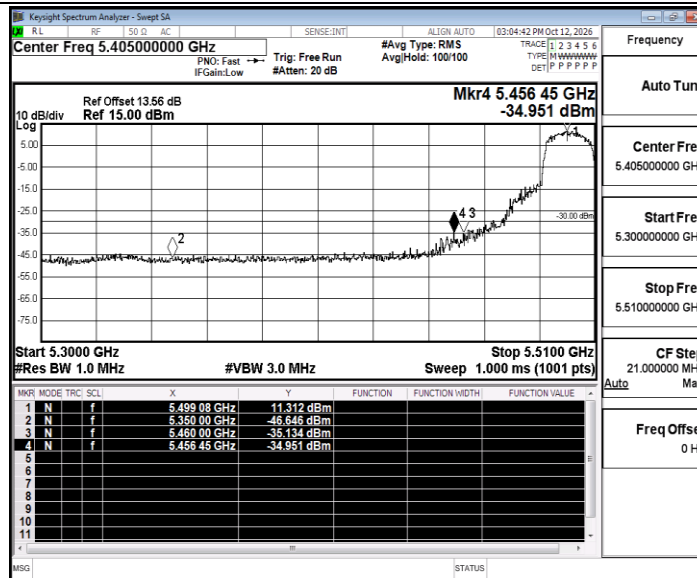
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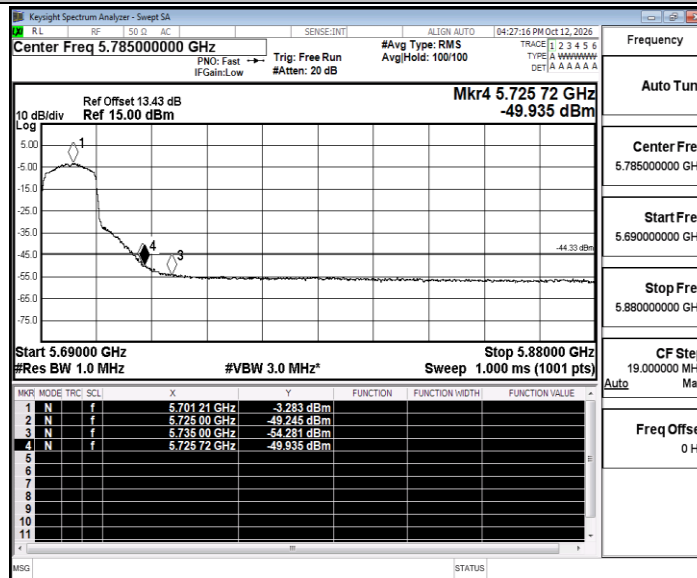
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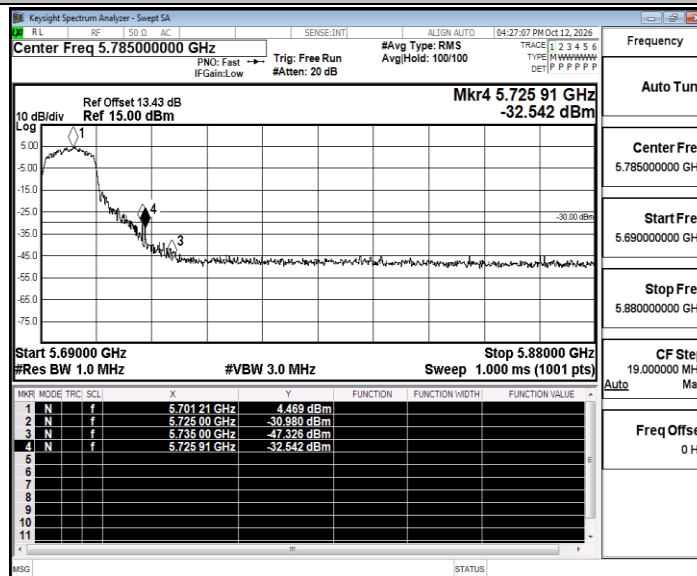
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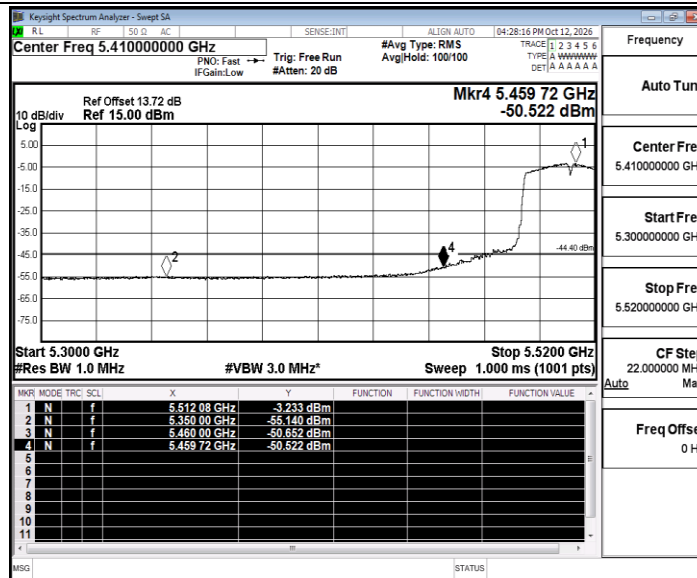
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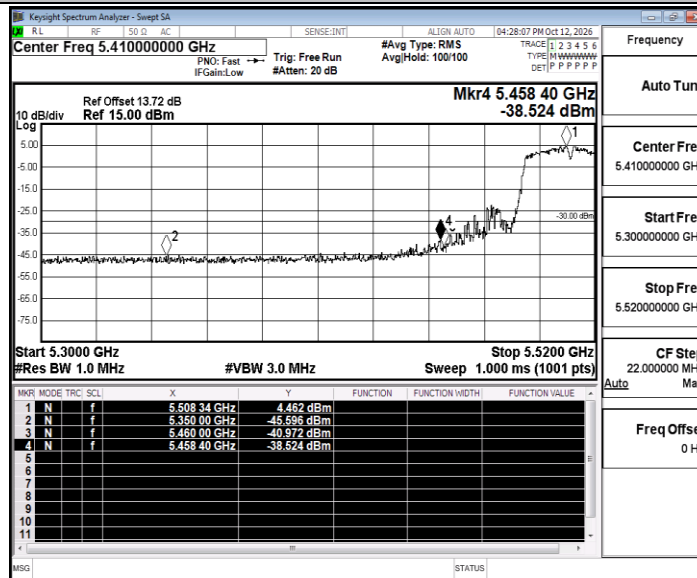
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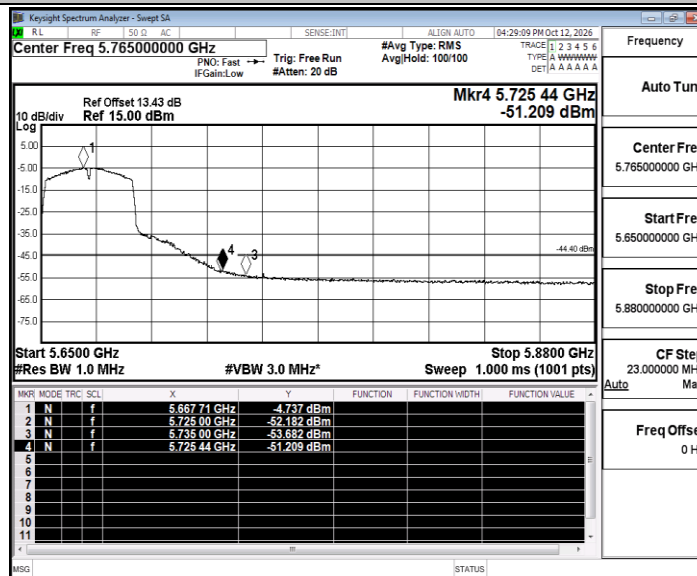
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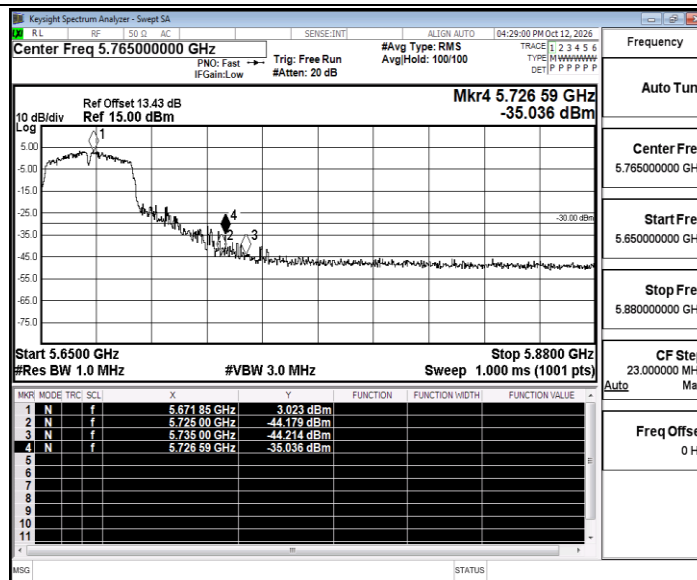
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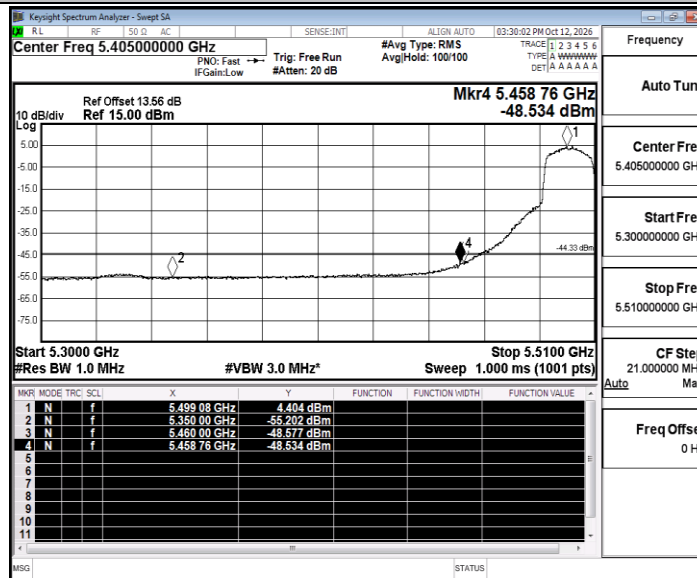
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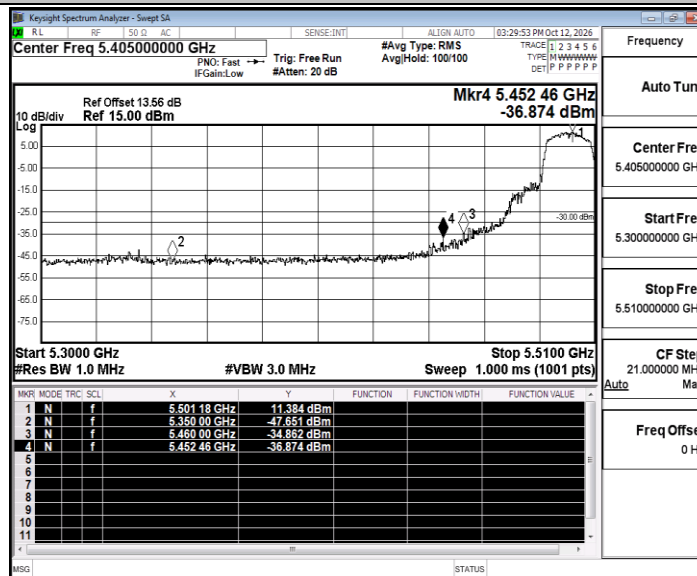
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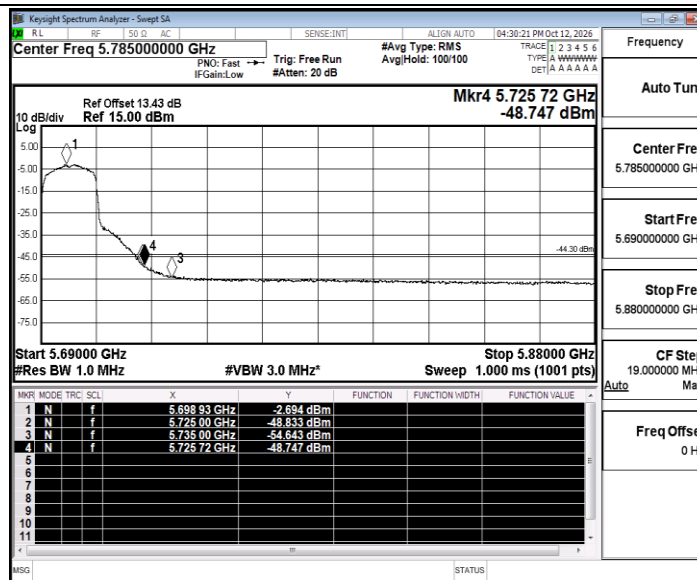
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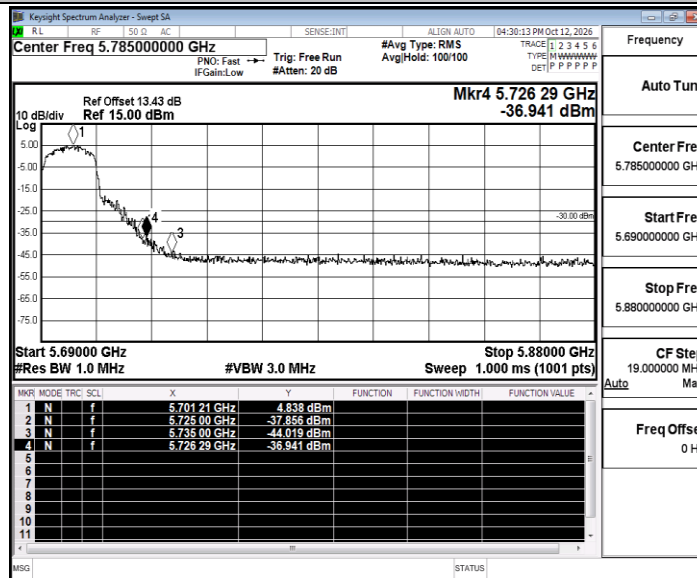
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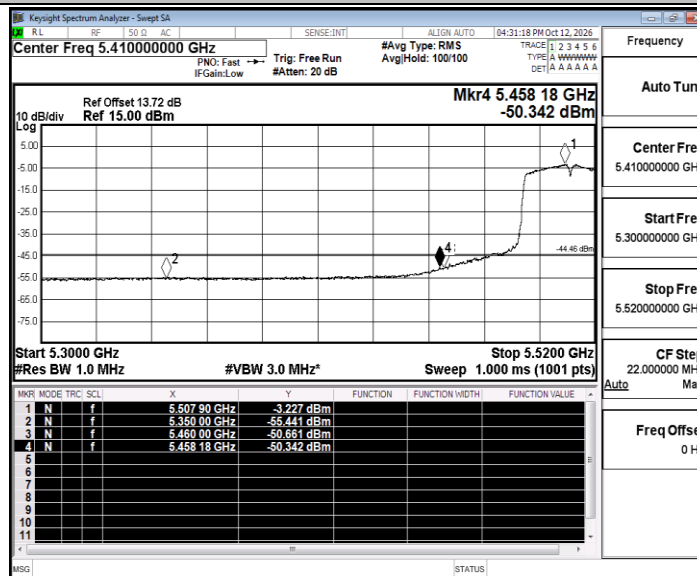
11AC20SISO_Ant1_High_5700_AV



11AC20SISO_Ant1_High_5700_Peak



11AC40SISO_Ant1_Low_5510_AV



11AC40SISO_Ant1_Low_5510_Peak