

Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Car Radio

Test Model: A5

Environmental Conditions

Temperature:	26.2°C
Relative Humidity:	57.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

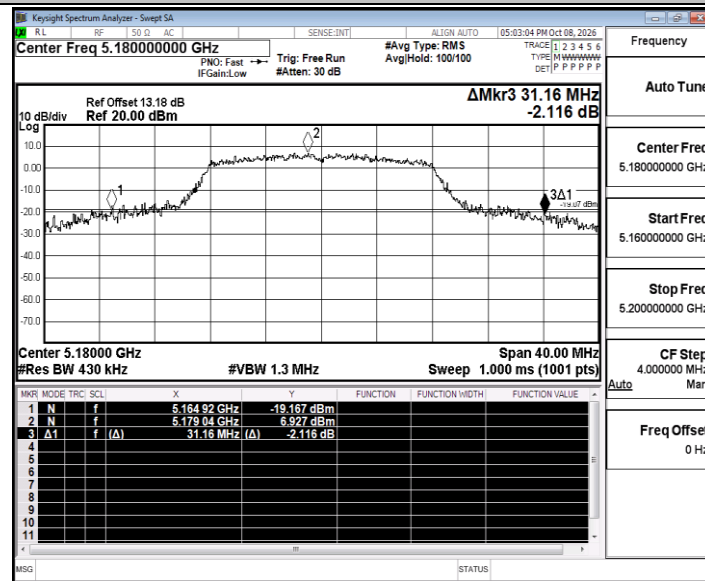
D.1 Emission Bandwidth

Test Result

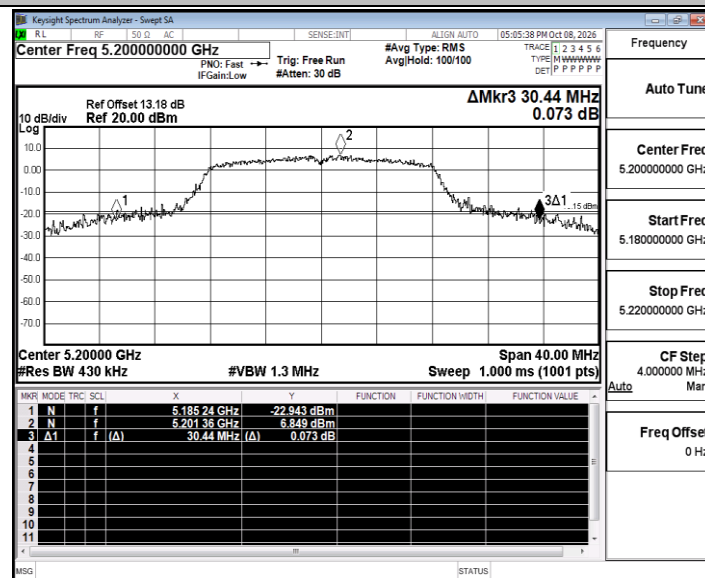
TestMode	Antenna	Freq (MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	31.160	5164.920	5196.080	---	---
		5200	30.440	5185.240	5215.680	---	---
		5240	30.720	5225.080	5255.800	---	---
11N20SISO	Ant1	5180	32.160	5163.920	5196.080	---	---
		5200	29.280	5186.080	5215.360	---	---
		5240	31.040	5223.000	5254.040	---	---
11N40SISO	Ant1	5190	67.120	5155.920	5223.040	---	---
		5230	67.040	5196.800	5263.840	---	---
11AC20SISO	Ant1	5180	31.200	5163.640	5194.840	---	---
		5200	29.840	5185.960	5215.800	---	---
		5240	36.080	5220.800	5256.880	---	---
11AC40SISO	Ant1	5190	71.600	5158.080	5229.680	---	---
		5230	72.480	5196.400	5268.880	---	---

Test Graphs

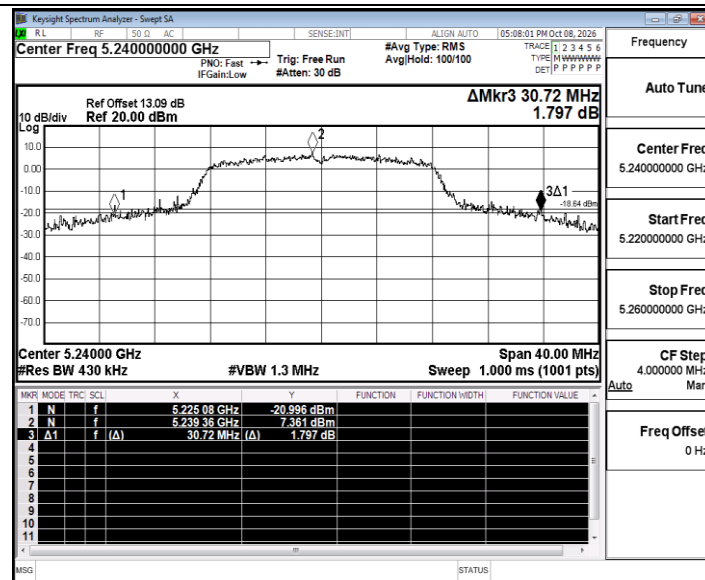
11A_Ant1_5180



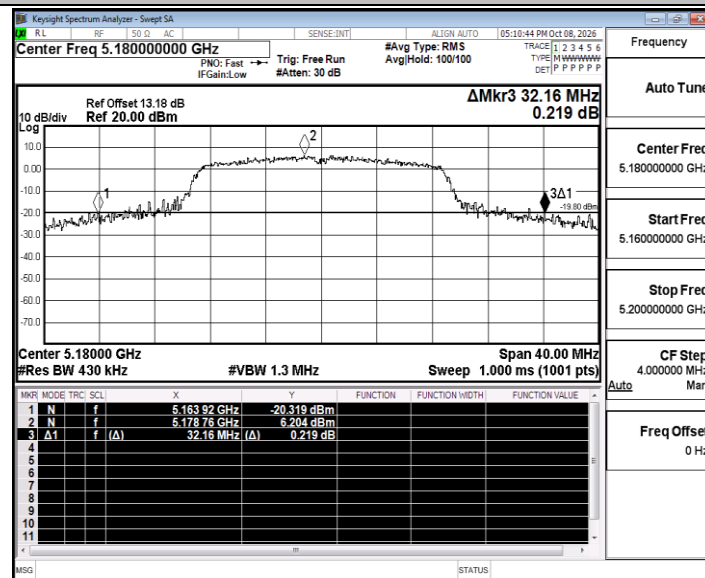
11A_Ant1_5200



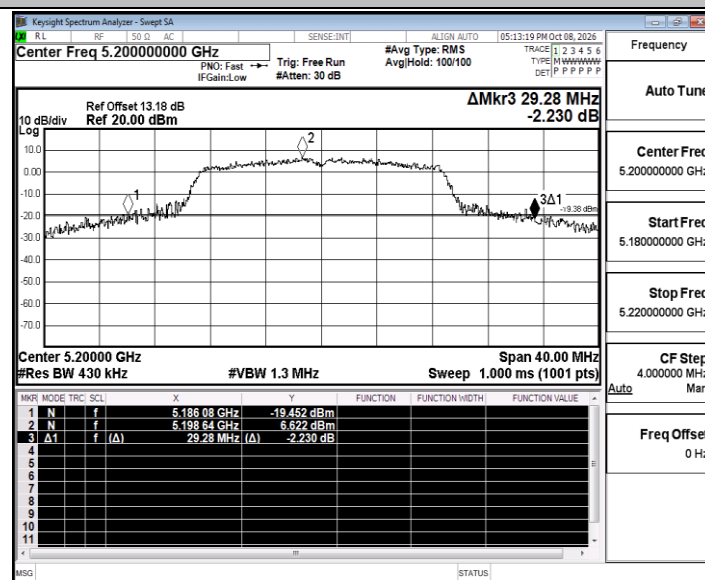
11A_Ant1_5240



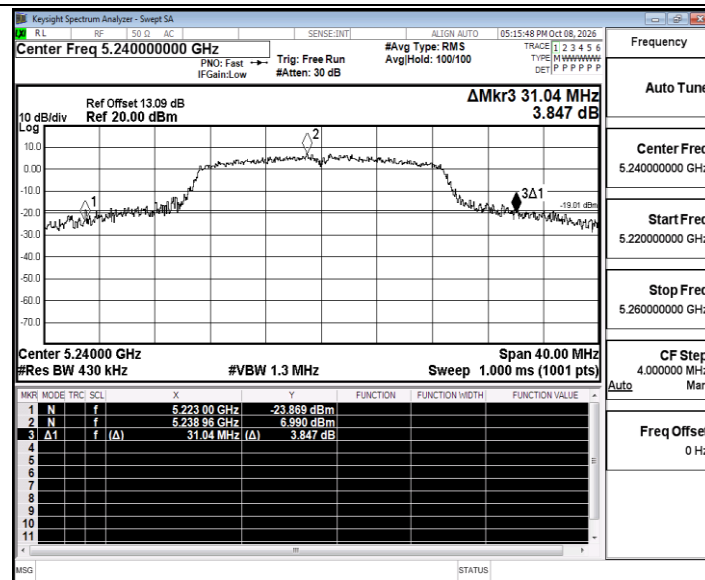
11N20SISO_Ant1_5180



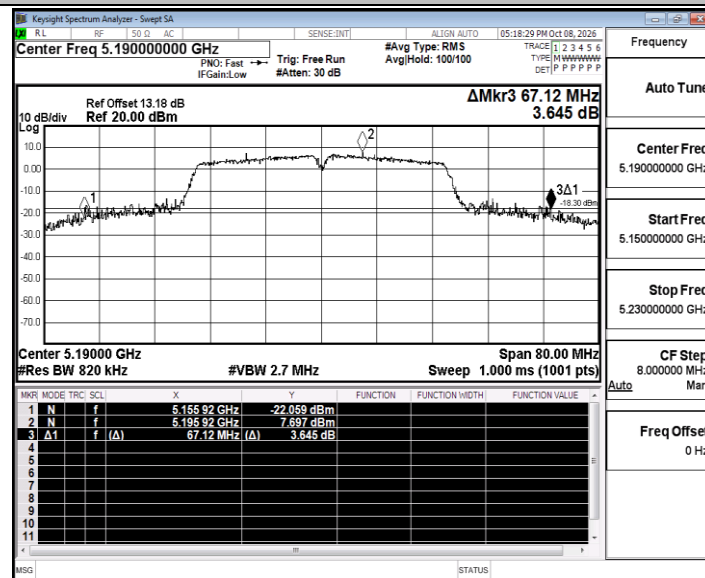
11N20SISO_Ant1_5200



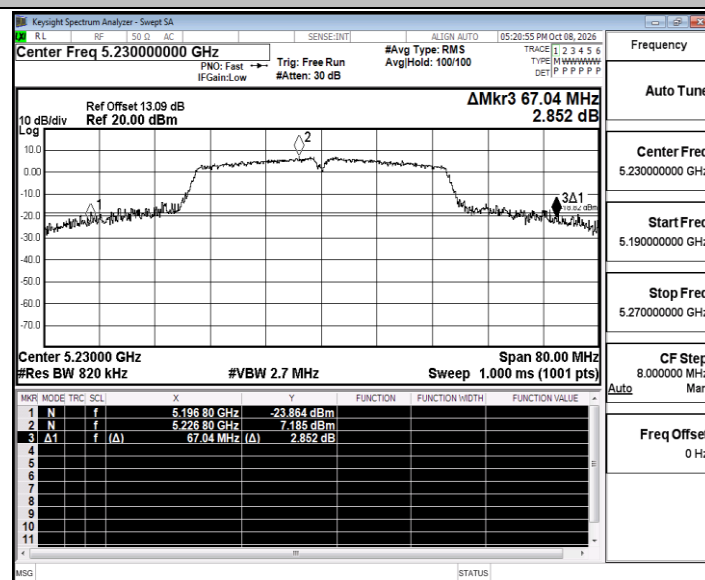
11N20SISO_Ant1_5240



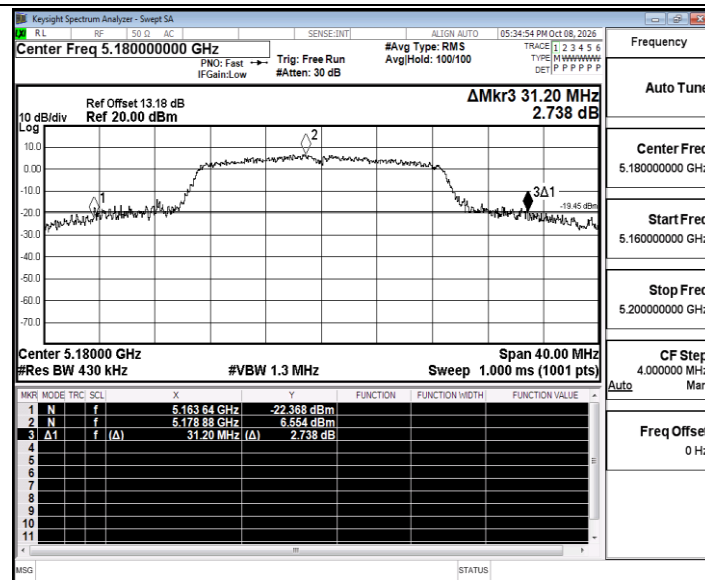
11N40SISO_Ant1_5190



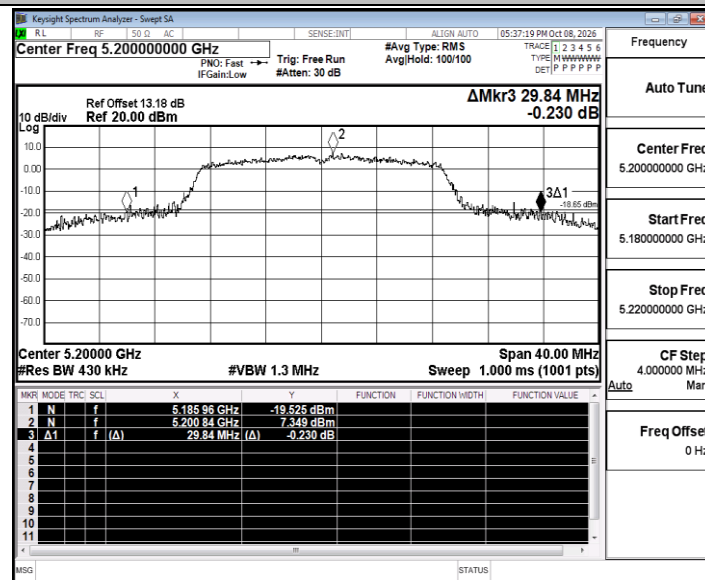
11N40SISO_Ant1_5230



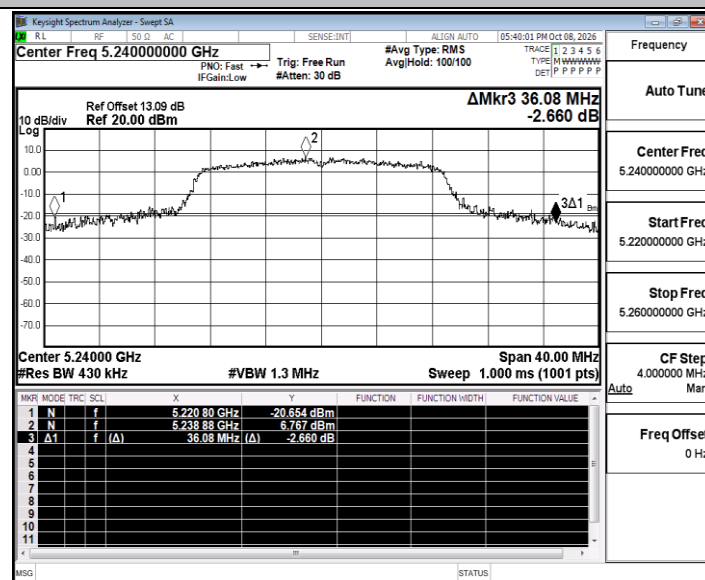
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



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	17.0	0.15	17.15	≤23.98	PASS
		5200	NA	16.95	0.15	17.1	≤23.98	PASS
		5240	NA	16.63	0.15	16.78	≤23.98	PASS
11N20SISO	Ant1	5180	NA	16.81	0.13	16.94	≤23.98	PASS
		5200	NA	16.91	0.16	17.07	≤23.98	PASS
		5240	NA	16.61	0.16	16.77	≤23.98	PASS
11N40SISO	Ant1	5190	NA	16.65	0.32	16.97	≤23.98	PASS
		5230	NA	16.46	0.33	16.79	≤23.98	PASS
11AC20SISO	Ant1	5180	NA	16.91	0.16	17.07	≤23.98	PASS
		5200	NA	16.79	0.16	16.95	≤23.98	PASS
		5240	NA	16.68	0.13	16.81	≤23.98	PASS
11AC40SISO	Ant1	5190	NA	16.67	0.26	16.93	≤23.98	PASS
		5230	NA	16.61	0.26	16.87	≤23.98	PASS

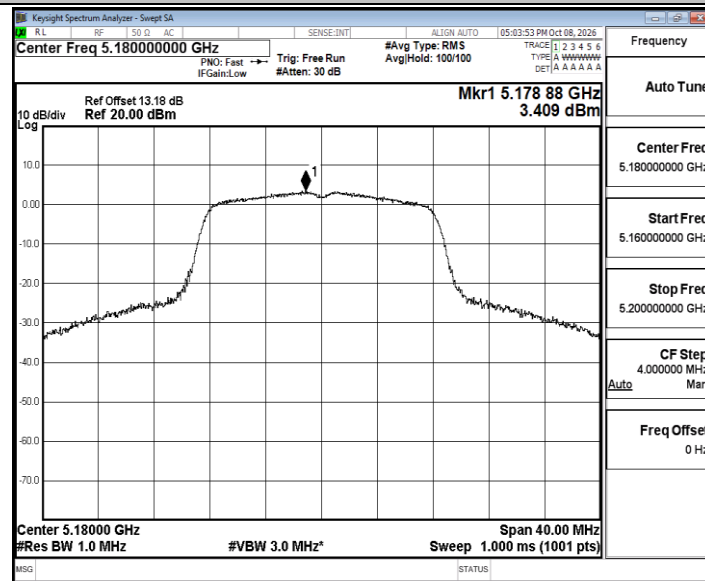
D.3 Maximum power spectral density

Test Result

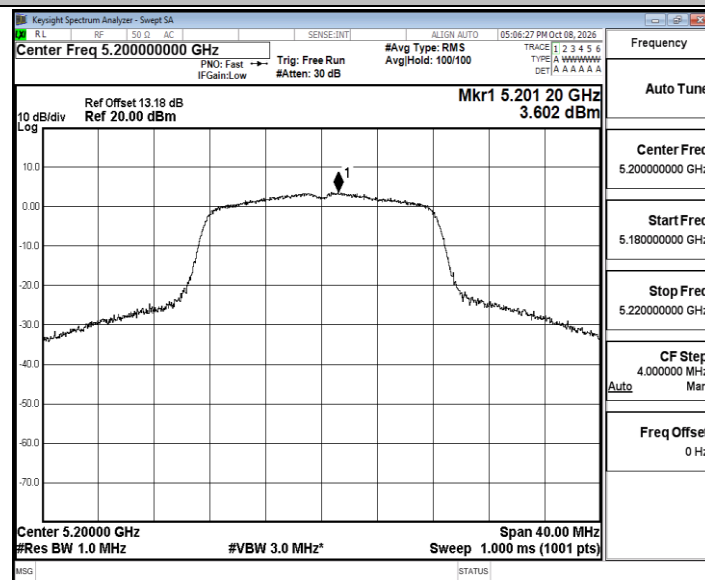
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	3.41	0.15	3.56	≤11.00	PASS
		5200	3.6	0.15	3.75	≤11.00	PASS
		5240	3.34	0.15	3.49	≤11.00	PASS
11N20SISO	Ant1	5180	3.18	0.13	3.31	≤11.00	PASS
		5200	3.34	0.16	3.5	≤11.00	PASS
		5240	3.31	0.16	3.47	≤11.00	PASS
11N40SISO	Ant1	5190	0.02	0.32	0.34	≤11.00	PASS
		5230	-0.34	0.33	-0.01	≤11.00	PASS
11AC20SISO	Ant1	5180	3.42	0.16	3.58	≤11.00	PASS
		5200	3.25	0.16	3.41	≤11.00	PASS
		5240	3.36	0.13	3.49	≤11.00	PASS
11AC40SISO	Ant1	5190	0.09	0.26	0.35	≤11.00	PASS
		5230	-0.25	0.26	0.01	≤11.00	PASS

Test Graphs

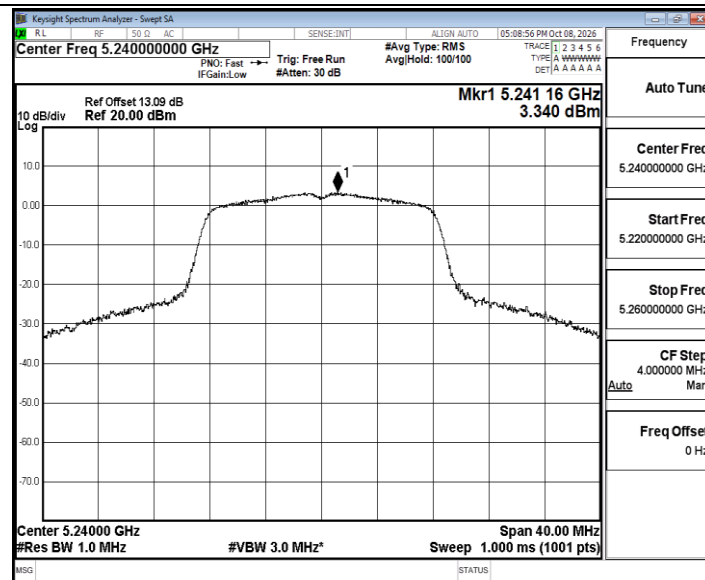
11A_Ant1_5180



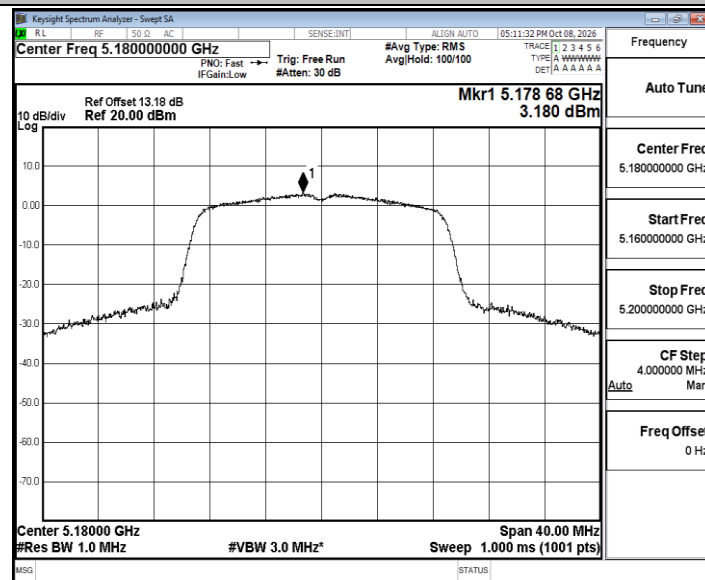
11A_Ant1_5200



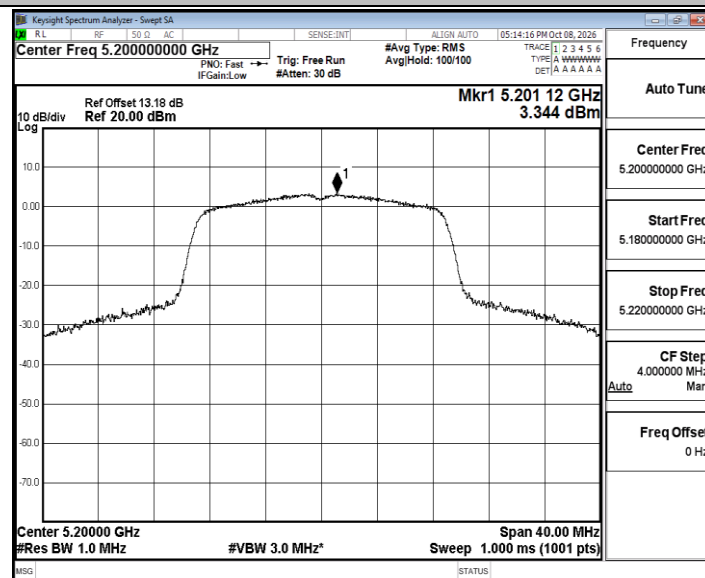
11A_Ant1_5240



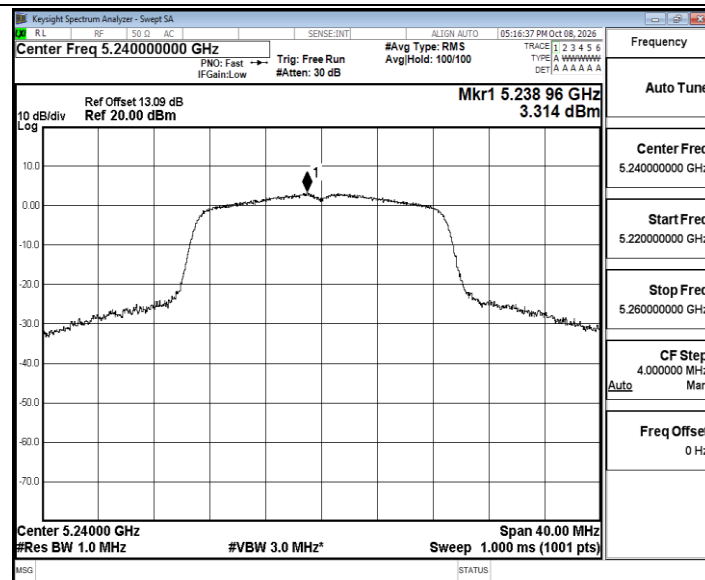
11N20SISO_Ant1_5180



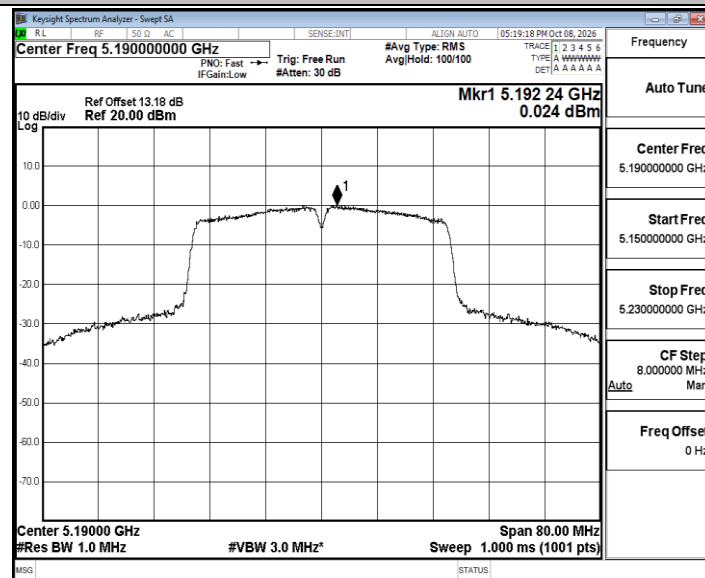
11N20SISO_Ant1_5200



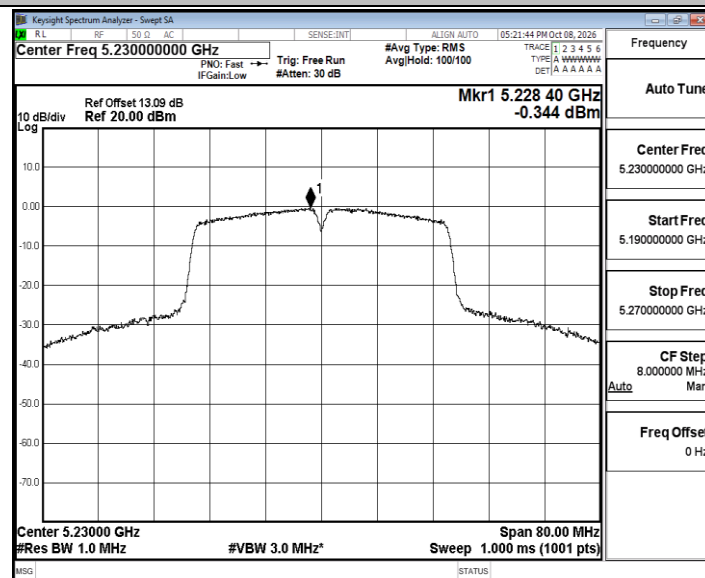
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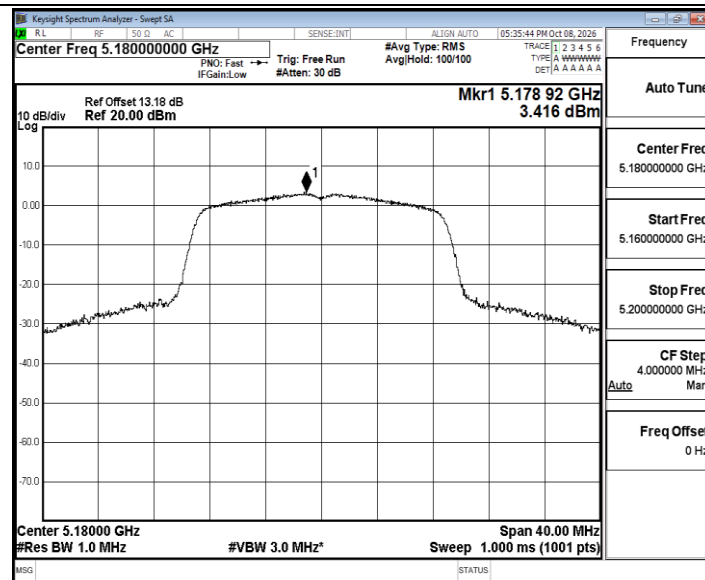
11N40SISO_Ant1_5190



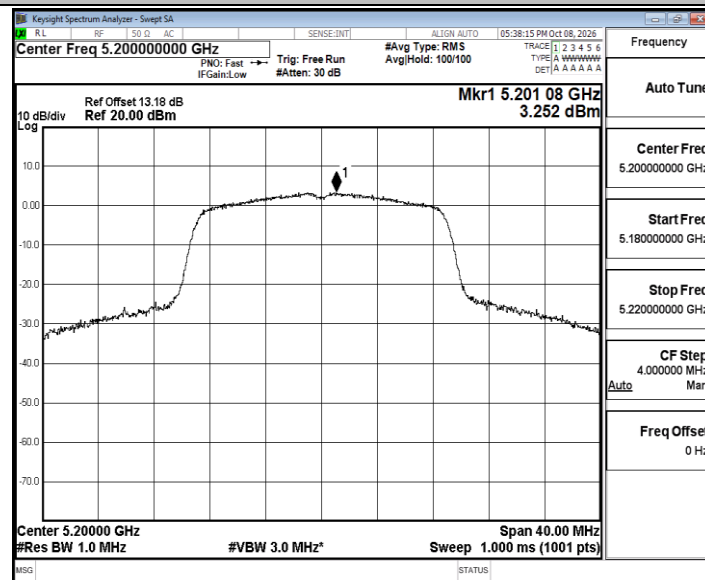
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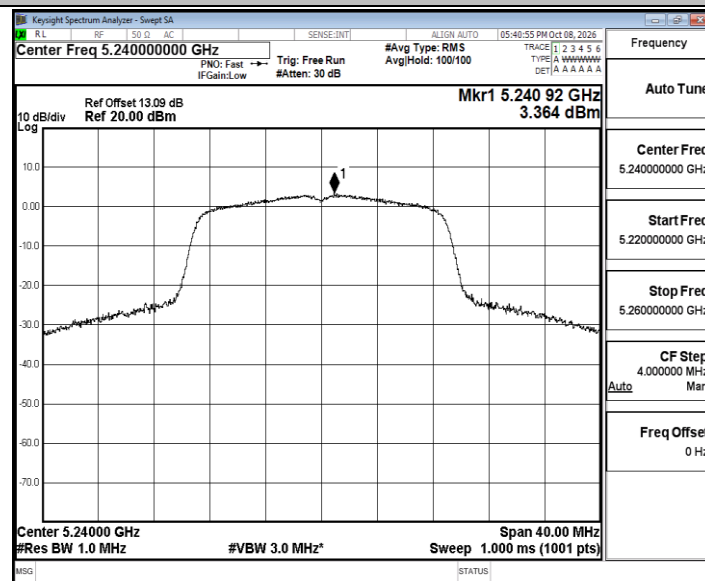
11AC20SISO_Ant1_5180



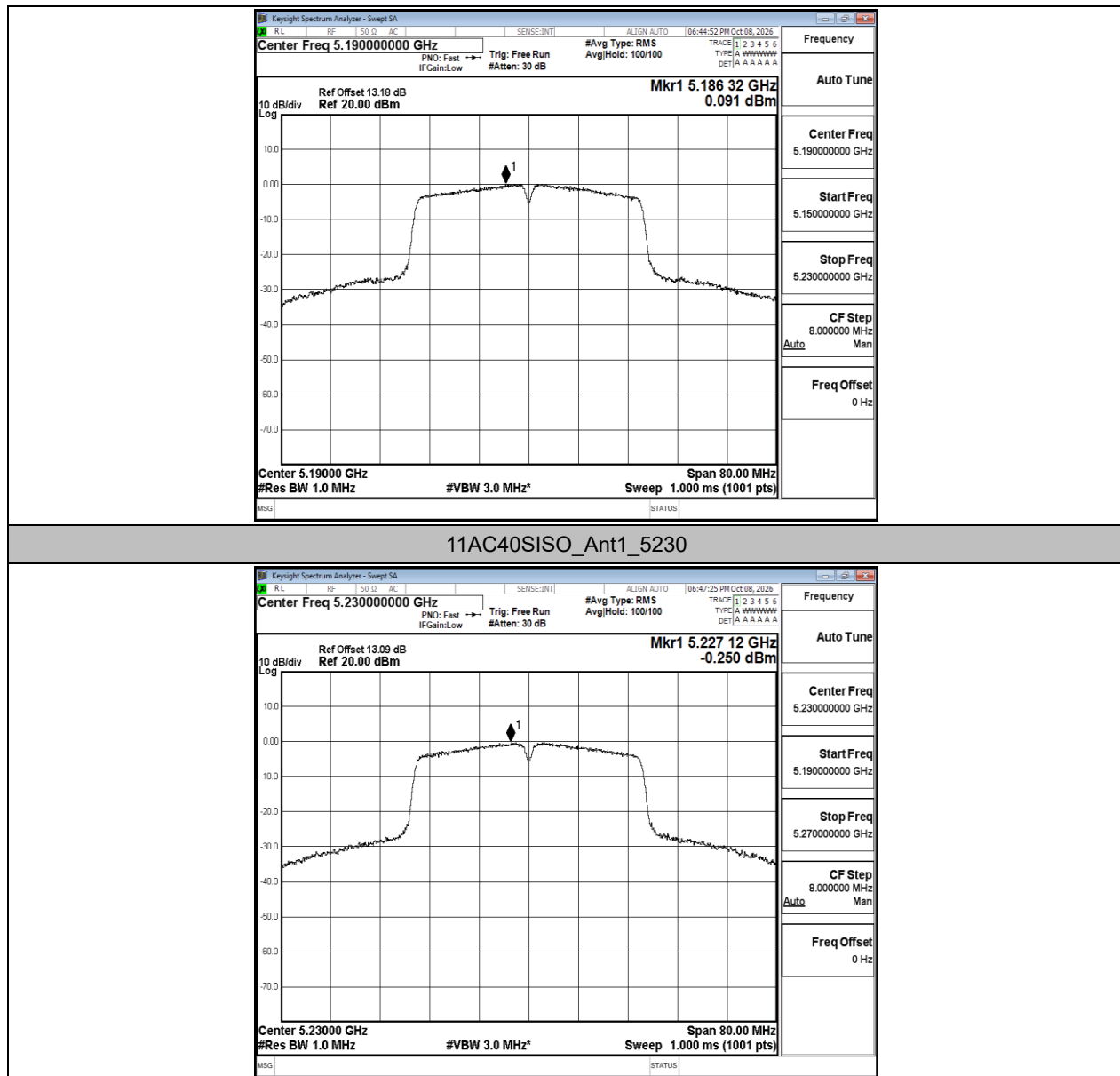
11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



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	5180	AV	4500.000	-61.86	≤-43.35	2.93	0.15	36.45	≤54	PASS
				AV	5149.600	-54.24	≤-43.35	2.93	0.15	44.07	≤54	PASS
				AV	5150.000	-54.24	≤-43.35	2.93	0.15	44.07	≤54	PASS
				Peak	4500.000	-54.66	≤-29.00	2.93	0	43.50	≤68.2	PASS
				Peak	5149.600	-32.29	≤-29.00	2.93	0	65.87	≤68.2	PASS
				Peak	5150.000	-33.82	≤-29.00	2.93	0	64.34	≤68.2	PASS
		High	5240	AV	5350.000	-57.98	≤-43.35	2.93	0.15	40.33	≤54	PASS
				AV	5351.520	-57.88	≤-43.35	2.93	0.15	40.43	≤54	PASS
				AV	5460.000	-61.34	≤-43.35	2.93	0.15	36.97	≤54	PASS
				Peak	5350.000	-50.14	≤-29.00	2.93	0	48.02	≤68.2	PASS
				Peak	5382.480	-48.44	≤-29.00	2.93	0	49.72	≤68.2	PASS
				Peak	5460.000	-53.03	≤-29.00	2.93	0	45.13	≤68.2	PASS
11N20 SISO	Ant1	Low	5180	AV	4500.000	-61.96	≤-43.33	2.93	0.13	36.33	≤54	PASS
				AV	5149.600	-44.61	≤-43.33	2.93	0.13	53.68	≤54	PASS
				AV	5150.000	-53.76	≤-43.33	2.93	0.13	44.53	≤54	PASS
				Peak	4500.000	-53.67	≤-29.00	2.93	0	44.49	≤68.2	PASS
				Peak	5149.600	-32.8	≤-29.00	2.93	0	65.36	≤68.2	PASS
				Peak	5150.000	-32.5	≤-29.00	2.93	0	65.66	≤68.2	PASS
		High	5240	AV	5350.000	-58.25	≤-43.36	2.93	0.16	40.07	≤54	PASS
				AV	5352.960	-57.35	≤-43.36	2.93	0.16	40.97	≤54	PASS
				AV	5460.000	-60.47	≤-43.36	2.93	0.16	37.85	≤54	PASS
				Peak	5350.000	-50.8	≤-29.00	2.93	0	47.36	≤68.2	PASS
				Peak	5350.800	-48.13	≤-29.00	2.93	0	50.03	≤68.2	PASS
				Peak	5460.000	-52.98	≤-29.00	2.93	0	45.18	≤68.2	PASS
11N40 SISO	Ant1	Low	5190	AV	4500.000	-67.66	≤-43.52	2.93	0.32	30.82	≤54	PASS
				AV	5149.600	-59.26	≤-43.52	2.93	0.32	39.22	≤54	PASS
				AV	5150.000	-58.04	≤-43.52	2.93	0.32	40.44	≤54	PASS
				Peak	4500.000	-59.88	≤-29.00	2.93	0	38.28	≤68.2	PASS
				Peak	5143.300	-45.77	≤-29.00	2.93	0	52.39	≤68.2	PASS
				Peak	5150.000	-51.05	≤-29.00	2.93	0	47.11	≤68.2	PASS
		High	5230	AV	5350.000	-56.96	≤-43.53	2.93	0.33	41.53	≤54	PASS
				AV	5350.280	-56.93	≤-43.53	2.93	0.33	41.56	≤54	PASS
				AV	5460.000	-60.56	≤-43.53	2.93	0.33	37.93	≤54	PASS
				Peak	5350.000	-49.07	≤-29.00	2.93	0	49.09	≤68.2	PASS
				Peak	5354.440	-45.39	≤-29.00	2.93	0	52.77	≤68.2	PASS
				Peak	5460.000	-51.83	≤-29.00	2.93	0	46.33	≤68.2	PASS
11AC2	Ant1	Low	5180	AV	4500.000	-67.82	≤-43.36	2.93	0.16	30.50	≤54	PASS

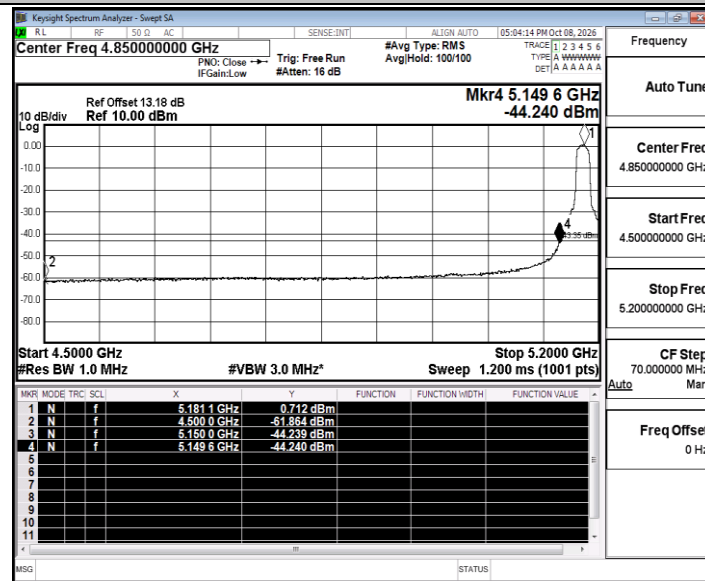
0SISO				AV	5146.800	-59.51	≤-43.36	2.93	0.16	38.81	≤54	PASS
				AV	5150.000	-58.44	≤-43.36	2.93	0.16	39.88	≤54	PASS
				Peak	4500.000	-58.12	≤-29.00	2.93	0	40.04	≤68.2	PASS
				Peak	5145.400	-49.84	≤-29.00	2.93	0	48.32	≤68.2	PASS
				Peak	5150.000	-51.38	≤-29.00	2.93	0	46.78	≤68.2	PASS
		High	5240	AV	5350.000	-58.45	≤-43.33	2.93	0.13	39.84	≤54	PASS
				AV	5352.480	-57.85	≤-43.33	2.93	0.13	40.44	≤54	PASS
				AV	5460.000	-61.4	≤-43.33	2.93	0.13	36.89	≤54	PASS
				Peak	5350.000	-49.22	≤-29.00	2.93	0	48.94	≤68.2	PASS
				Peak	5354.400	-48.38	≤-29.00	2.93	0	49.78	≤68.2	PASS
				Peak	5460.000	-52.76	≤-29.00	2.93	0	45.40	≤68.2	PASS
11AC4 0SISO	Ant1	Low	5190	AV	4500.000	-68.06	≤-43.46	2.93	0.26	30.36	≤54	PASS
				AV	5148.900	-59.28	≤-43.46	2.93	0.26	39.14	≤54	PASS
				AV	5150.000	-59.54	≤-43.46	2.93	0.26	38.88	≤54	PASS
				Peak	4500.000	-60.71	≤-29.00	2.93	0	37.45	≤68.2	PASS
				Peak	5146.100	-48.57	≤-29.00	2.93	0	49.59	≤68.2	PASS
				Peak	5150.000	-50.19	≤-29.00	2.93	0	47.97	≤68.2	PASS
		High	5230	AV	5350.000	-57.27	≤-43.46	2.93	0.26	41.15	≤54	PASS
				AV	5356.520	-57.14	≤-43.46	2.93	0.26	41.28	≤54	PASS
				AV	5460.000	-61.35	≤-43.46	2.93	0.26	37.07	≤54	PASS
				Peak	5350.000	-47.23	≤-29.00	2.93	0	50.93	≤68.2	PASS
				Peak	5350.540	-46.03	≤-29.00	2.93	0	52.13	≤68.2	PASS
				Peak	5460.000	-53.16	≤-29.00	2.93	0	45.00	≤68.2	PASS

Note:

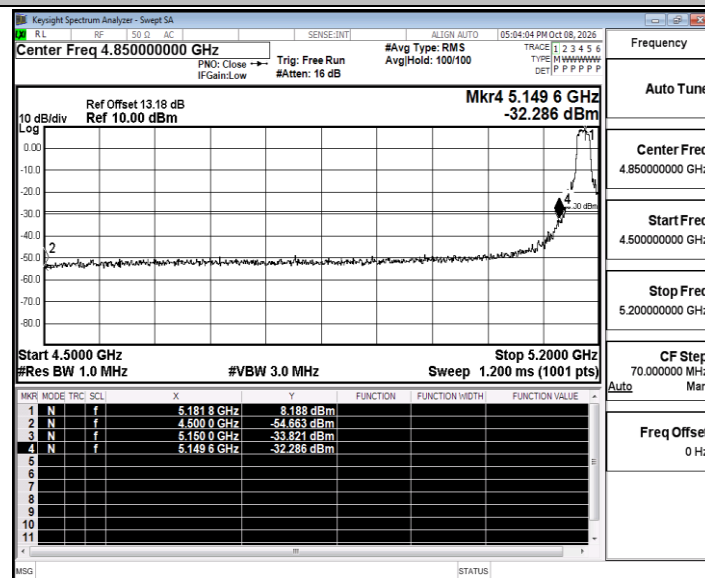
1. The Antenna Gain is compensated in the graph.

Test Graphs

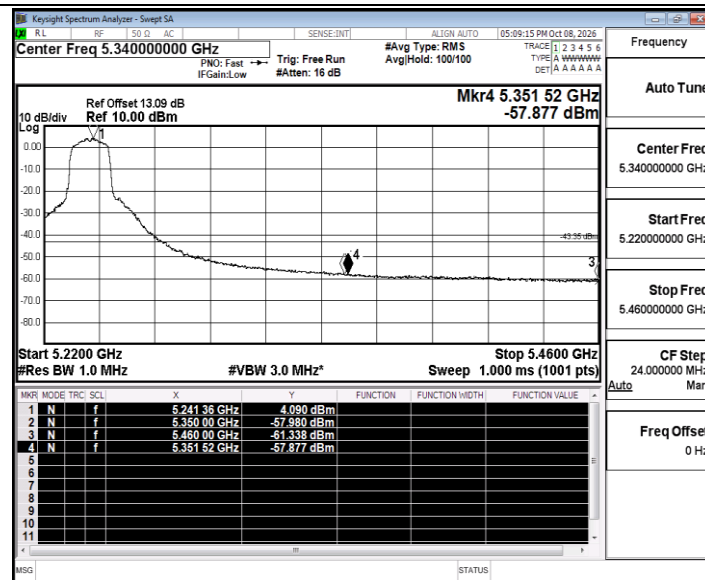
11A_Ant1_Low_5180_AV



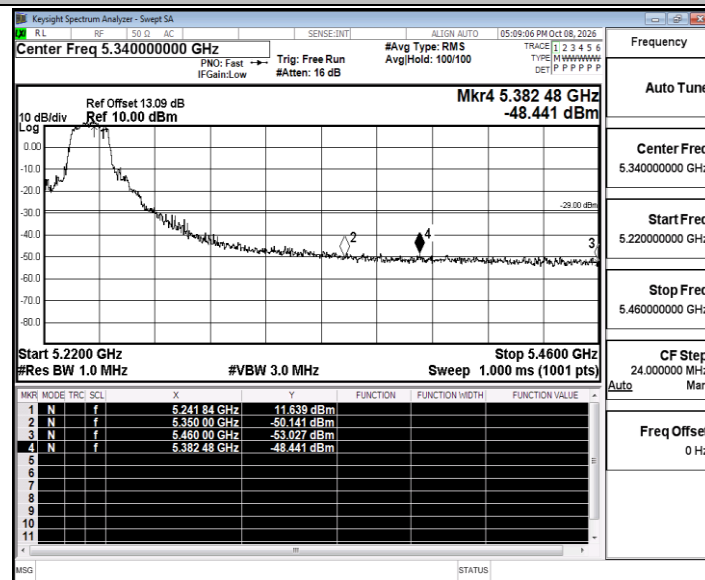
11A_Ant1_Low_5180_Peak



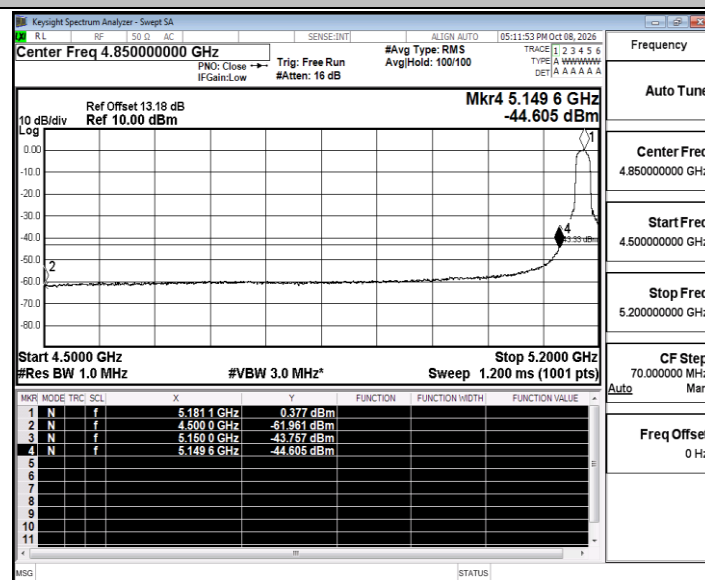
11A_Ant1_High_5240_AV



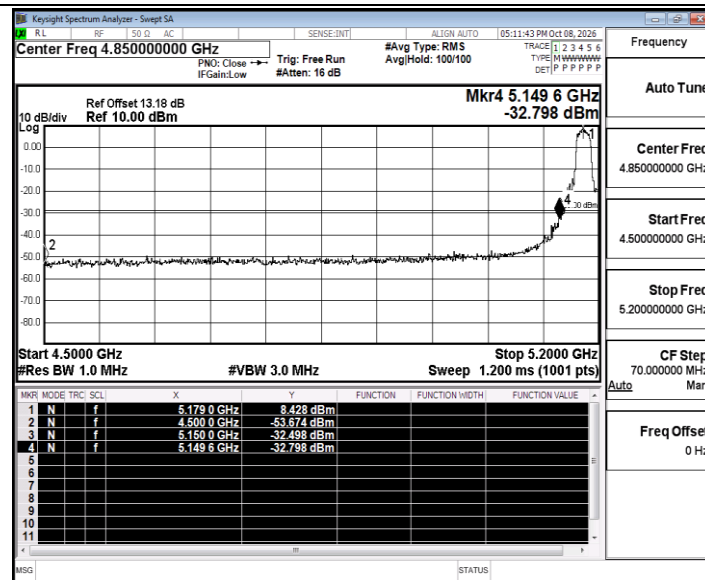
11A_Ant1_High_5240_Peak



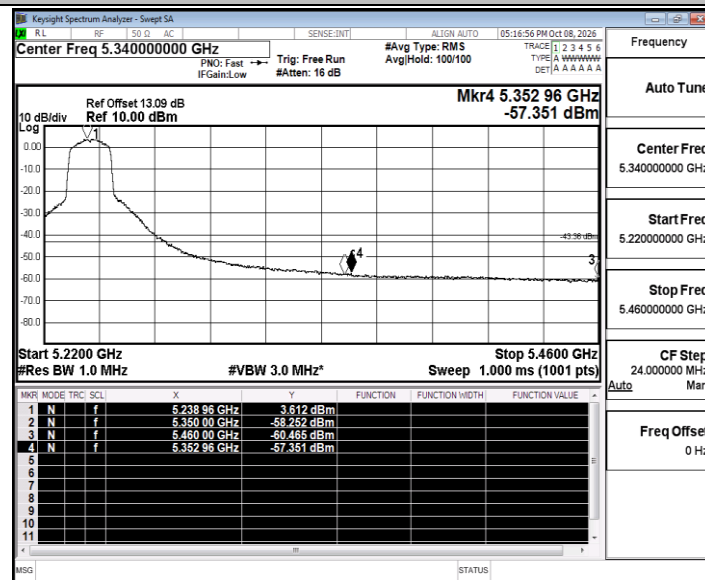
11N20SISO_Ant1_Low_5180_AV



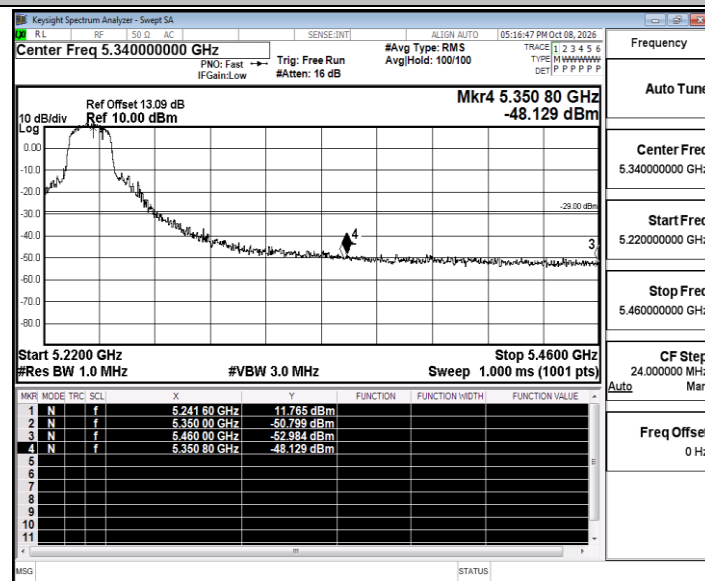
11N20SISO_Ant1_Low_5180_Peak



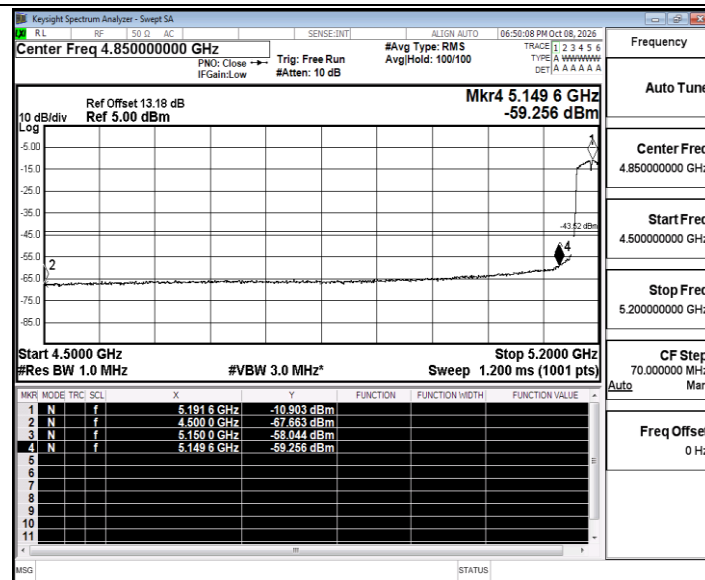
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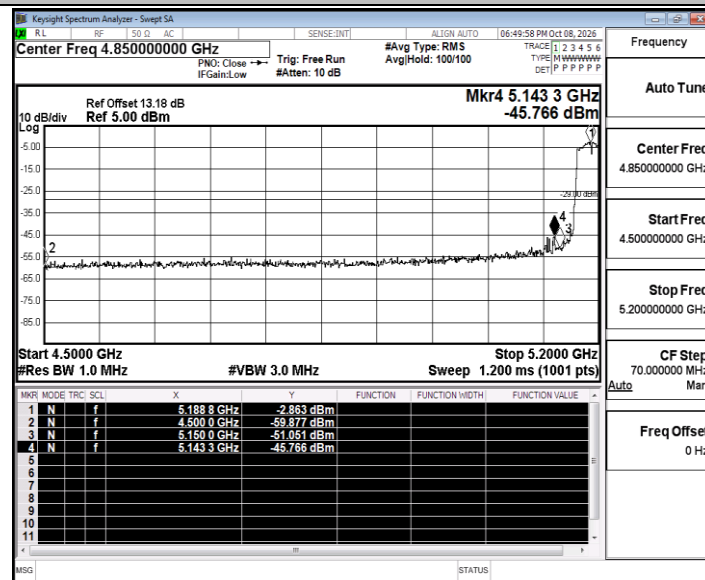
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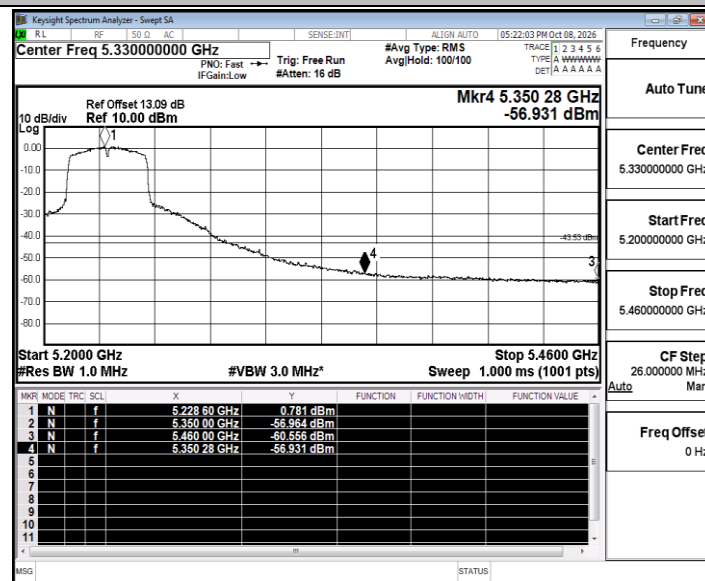
11N40SISO_Ant1_Low_5190_AV



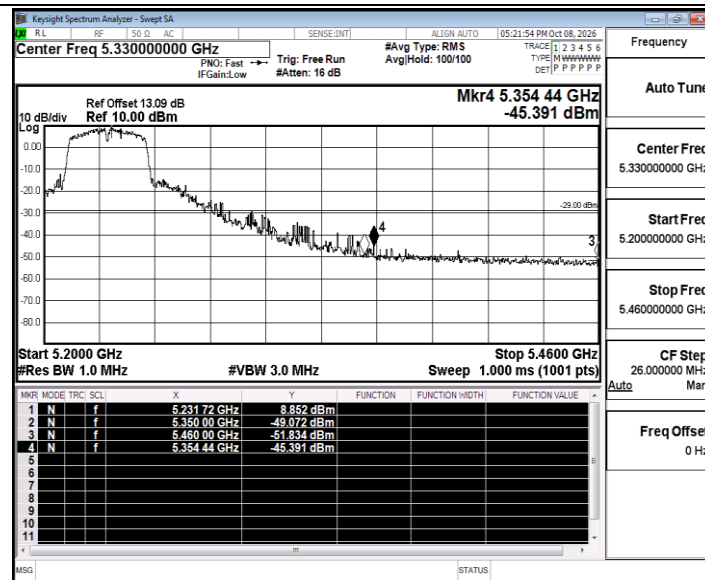
11N40SISO_Ant1_Low_5190_Peak



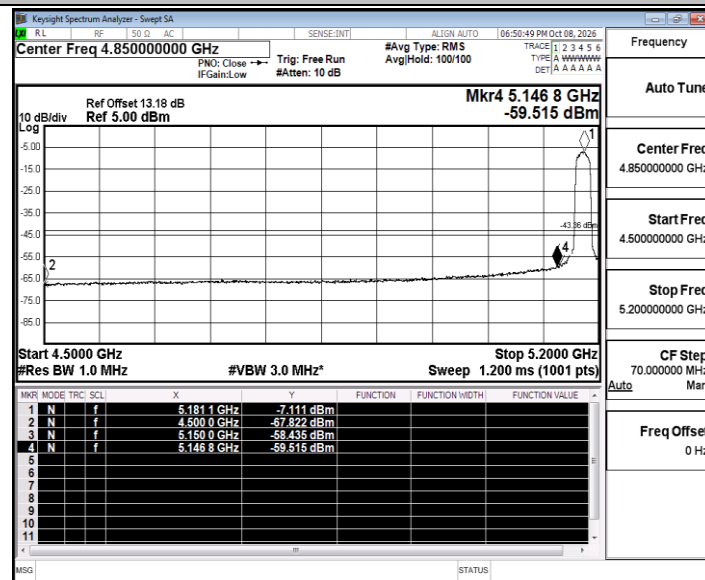
11N40SISO_Ant1_High_5230_AV



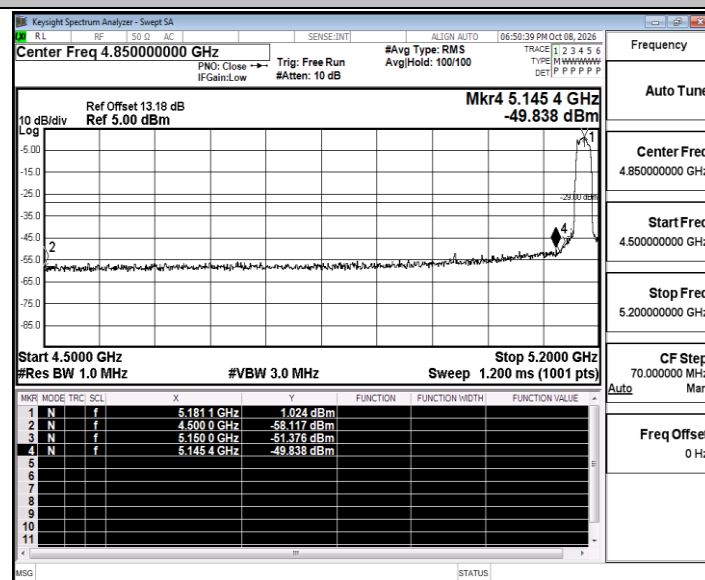
11N40SISO_Ant1_High_5230_Peak



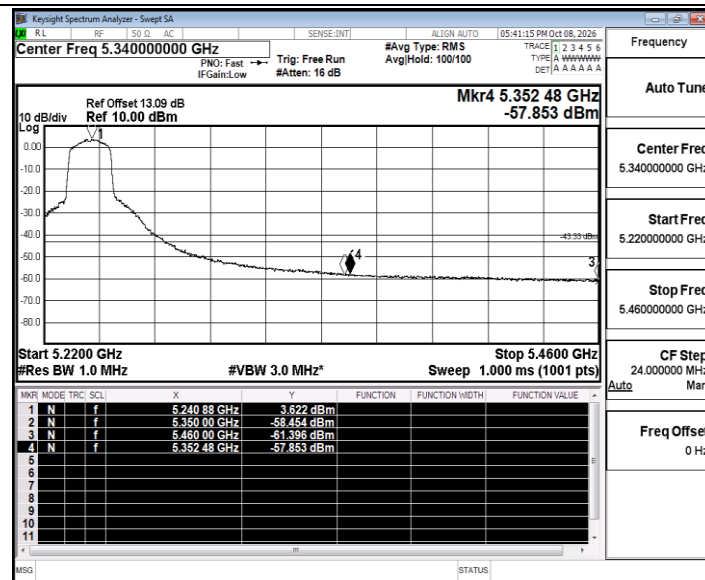
11AC20SISO_Ant1_Low_5180_AV



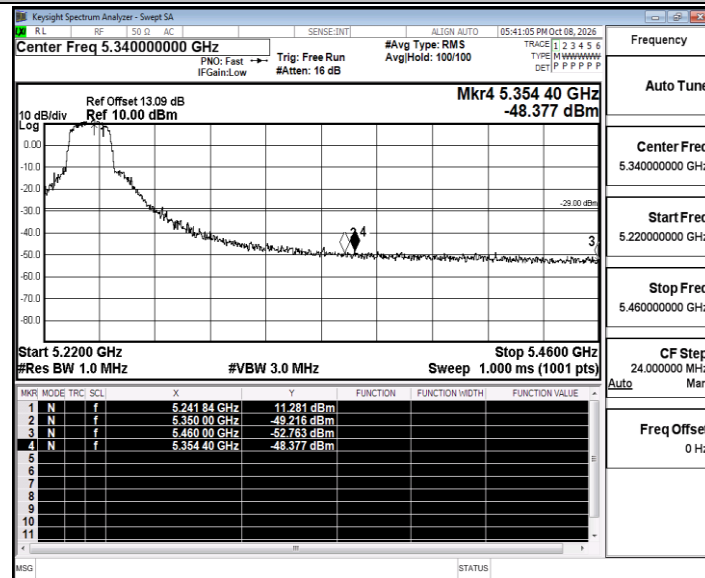
11AC20SISO_Ant1_Low_5180_Peak



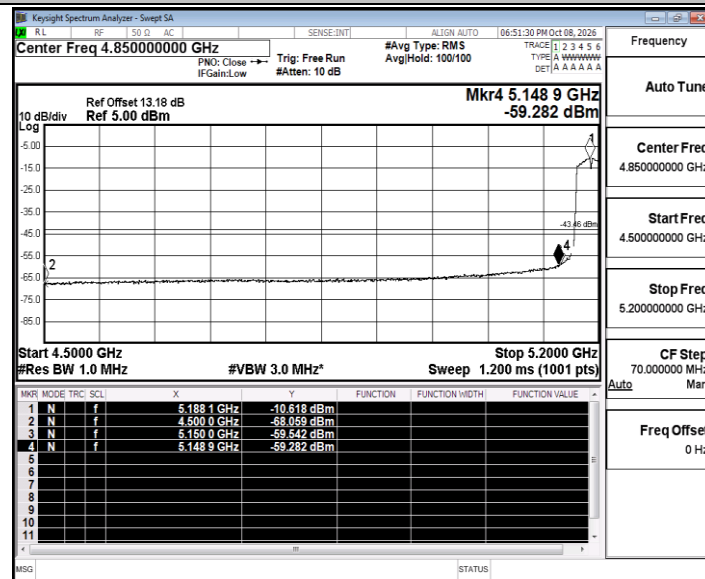
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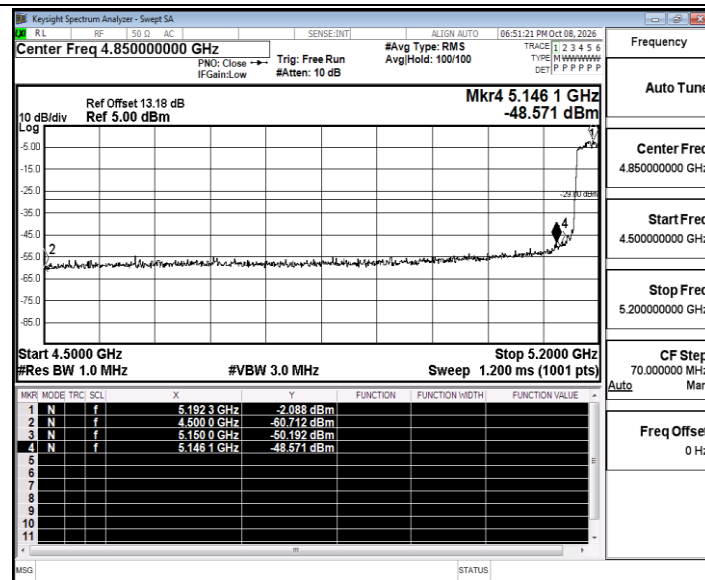
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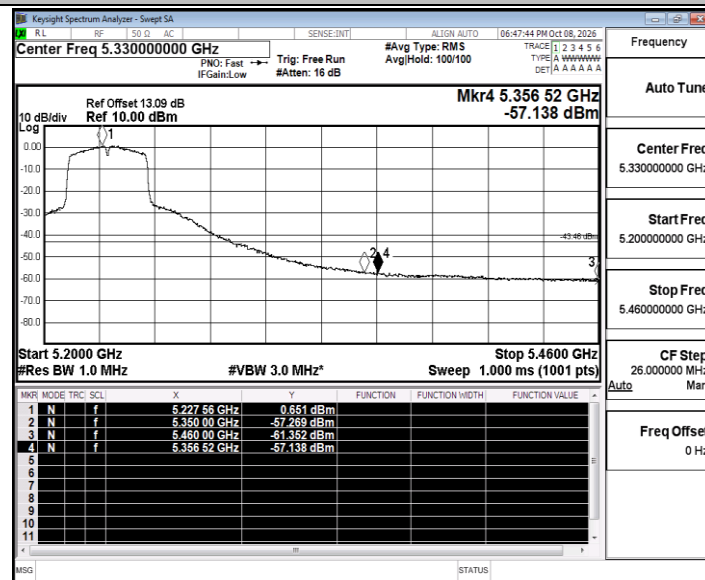
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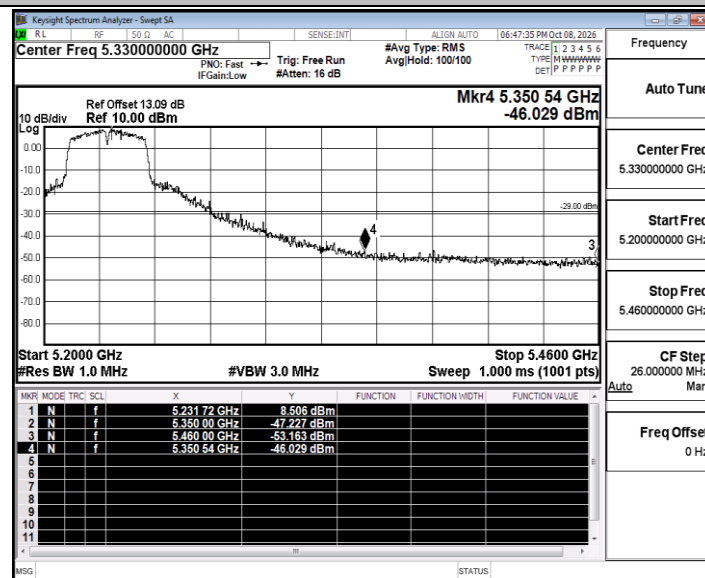
11AC40SISO_Ant1_Low_5190_Peak



11AC40SISO_Ant1_High_5230_AV



11AC40SISO_Ant1_High_5230_Peak



D.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Freq (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-60000.00	-11.583012	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-60000.00	-11.583012	20	PASS
		5200	NV	NT	40000.00	7.692308	20	PASS
			LV	NT	-40000.00	-7.692308	20	PASS
			HV	NT	-40000.00	-7.692308	20	PASS
		5240	NV	NT	80000.00	15.267176	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
			HV	NT	20000.00	3.816794	20	PASS
11N20SISO	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5200	NV	NT	60000.00	11.538462	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	20000.00	3.846154	20	PASS
		5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11N40SISO	Ant1	5190	NV	NT	40000.00	7.707129	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5230	NV	NT	-40000.00	-7.648184	20	PASS
			LV	NT	40000.00	7.648184	20	PASS
			HV	NT	-80000.00	-15.296367	20	PASS
11AC20SISO	Ant1	5180	NV	NT	-40000.00	-7.722008	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
		5200	NV	NT	-20000.00	-3.846154	20	PASS
			LV	NT	-40000.00	-7.692308	20	PASS
			HV	NT	-40000.00	-7.692308	20	PASS
		5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
			HV	NT	20000.00	3.816794	20	PASS
11AC40SISO	Ant1	5190	NV	NT	-40000.00	-7.692308	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	40000.00	7.707129	20	PASS
		5230	NV	NT	80000.00	15.296367	20	PASS

			LV	NT	-40000.00	-7.648184	20	PASS
			HV	NT	80000.00	15.296367	20	PASS

Temperature								
TestMode	Antenna	Freq (MHz)	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.861004	20	PASS
			NV	-10	-40000.00	-7.722008	20	PASS
			NV	0	-20000.00	-3.861004	20	PASS
			NV	10	-40000.00	-7.722008	20	PASS
			NV	20	-20000.00	-3.861004	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	20000.00	3.861004	20	PASS
			NV	50	20000.00	3.861004	20	PASS
		5200	NV	-30	-60000.00	-11.538462	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-20000.00	-3.846154	20	PASS
			NV	10	-40000.00	-7.692308	20	PASS
			NV	20	-20000.00	-3.846154	20	PASS
			NV	30	-20000.00	-3.846154	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	20000.00	3.846154	20	PASS
		5240	NV	-30	-20000.00	-3.816794	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-7.633588	20	PASS
			NV	0	20000.00	3.816794	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-40000.00	-7.633588	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-40000.00	-7.633588	20	PASS
			NV	50	-60000.00	-11.450382	20	PASS
11N20SISO	Ant1	5180	NV	-30	-60000.00	-11.583012	20	PASS
			NV	-20	100000.00	19.305019	20	PASS
			NV	-10	100000.00	19.305019	20	PASS
			NV	0	60000.00	11.583012	20	PASS
			NV	10	-20000.00	-3.861004	20	PASS
			NV	20	20000.00	3.861004	20	PASS
			NV	30	-40000.00	-7.722008	20	PASS
			NV	40	-20000.00	-3.861004	20	PASS
			NV	50	-60000.00	-11.583012	20	PASS
		5200	NV	-30	-20000.00	-3.846154	20	PASS
			NV	-20	100000.00	19.305019	20	PASS
			NV	-10	-40000.00	-7.692308	20	PASS
			NV	0	60000.00	11.538462	20	PASS
			NV	10	-20000.00	-3.846154	20	PASS
			NV	20	20000.00	3.846154	20	PASS

			NV	20	20000.00	3.846154	20	PASS
			NV	30	20000.00	3.846154	20	PASS
			NV	40	20000.00	3.846154	20	PASS
			NV	50	-40000.00	-7.692308	20	PASS
		5240	NV	-30	-20000.00	-3.816794	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	20000.00	3.816794	20	PASS
			NV	10	-40000.00	-7.633588	20	PASS
			NV	20	-20000.00	-3.816794	20	PASS
			NV	30	-40000.00	-7.633588	20	PASS
			NV	40	-20000.00	-3.816794	20	PASS
			NV	50	0.00	0.000000	20	PASS
			NV	-30	-40000.00	-7.707129	20	PASS
			NV	-20	-80000.00	-15.414258	20	PASS
			NV	-10	100000.00	19.305019	20	PASS
			NV	0	100000.00	19.305019	20	PASS
11N40SISO	Ant1	5190	NV	10	100000.00	19.305019	20	PASS
			NV	20	100000.00	19.305019	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	40000.00	7.707129	20	PASS
		5230	NV	-30	0.00	0.000000	20	PASS
			NV	-20	100000.00	19.305019	20	PASS
			NV	-10	100000.00	19.305019	20	PASS
			NV	0	100000.00	19.305019	20	PASS
			NV	10	-40000.00	-7.648184	20	PASS
			NV	20	-40000.00	-7.648184	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	40000.00	7.648184	20	PASS
11AC20SISO	Ant1	5180	NV	50	-40000.00	-7.648184	20	PASS
			NV	-30	0.00	0.000000	20	PASS
			NV	-20	-80000.00	-15.444015	20	PASS
			NV	-10	-40000.00	-7.722008	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-20000.00	-3.861004	20	PASS
			NV	20	20000.00	3.861004	20	PASS
			NV	30	-40000.00	-7.722008	20	PASS
			NV	40	40000.00	7.722008	20	PASS
		5200	NV	50	-60000.00	-11.583012	20	PASS
			NV	-30	-40000.00	-7.692308	20	PASS
			NV	-20	40000.00	7.692308	20	PASS
			NV	-10	-60000.00	-11.538462	20	PASS
			NV	0	-20000.00	-3.846154	20	PASS

			NV	10	20000.00	3.846154	20	PASS
			NV	20	-20000.00	-3.846154	20	PASS
			NV	30	-40000.00	-7.692308	20	PASS
			NV	40	-80000.00	-15.384615	20	PASS
			NV	50	0.00	0.000000	20	PASS
		5240	NV	-30	-20000.00	-3.816794	20	PASS
			NV	-20	-20000.00	-3.816794	20	PASS
			NV	-10	-40000.00	-7.633588	20	PASS
			NV	0	20000.00	3.816794	20	PASS
			NV	10	-20000.00	-3.816794	20	PASS
			NV	20	20000.00	3.816794	20	PASS
			NV	30	-60000.00	-11.450382	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-60000.00	-11.450382	20	PASS
11AC40SISO	Ant1	5190	NV	-30	-40000.00	-7.707129	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	40000.00	7.707129	20	PASS
			NV	0	80000.00	15.414258	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-40000.00	-7.648184	20	PASS
			NV	40	-40000.00	-7.648184	20	PASS
			NV	50	-40000.00	-7.707129	20	PASS
		5230	NV	-30	-40000.00	-7.648184	20	PASS
			NV	-20	-80000.00	-15.296367	20	PASS
			NV	-10	-40000.00	-7.648184	20	PASS
			NV	0	-40000.00	-7.648184	20	PASS
			NV	10	-40000.00	-7.648184	20	PASS
			NV	20	-80000.00	-15.296367	20	PASS
			NV	30	-40000.00	-7.648184	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	80000.00	15.296367	20	PASS

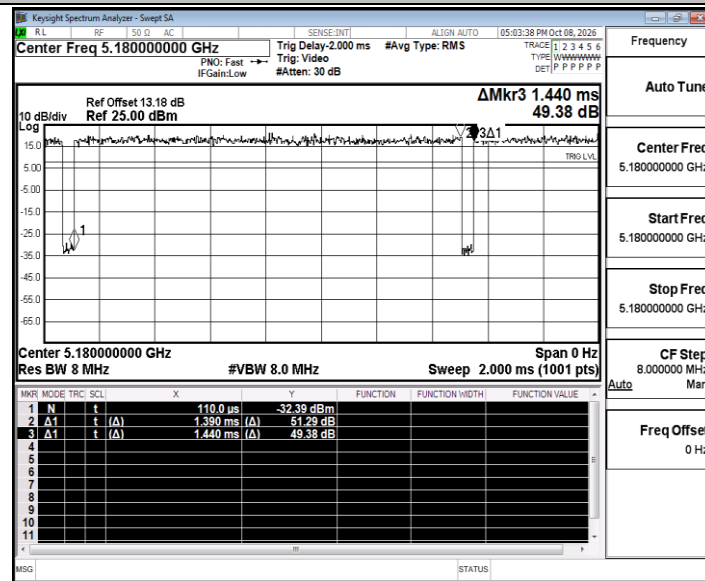
D.6 Duty Cycle

Test Result

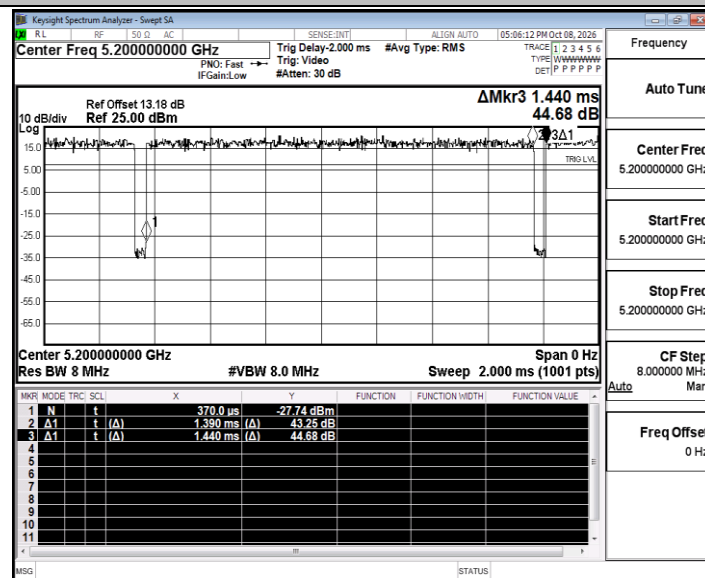
TestMode	Antenna	Freq (MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor	Limit	Verdict
11A	Ant1	5180	1.39	1.44	96.53	0.15	---	---
		5200	1.39	1.44	96.53	0.15	---	---
		5240	1.39	1.44	96.53	0.15	---	---
11N20SISO	Ant1	5180	1.30	1.34	97.01	0.13	---	---
		5200	1.30	1.35	96.30	0.16	---	---
		5240	1.30	1.35	96.30	0.16	---	---
11N40SISO	Ant1	5190	0.65	0.70	92.86	0.32	---	---
		5230	0.64	0.69	92.75	0.33	---	---
11AC20SISO	Ant1	5180	1.31	1.36	96.32	0.16	---	---
		5200	1.31	1.36	96.32	0.16	---	---
		5240	1.32	1.36	97.06	0.13	---	---
11AC40SISO	Ant1	5190	0.65	0.69	94.20	0.26	---	---
		5230	0.65	0.69	94.20	0.26	---	---

Test Graphs

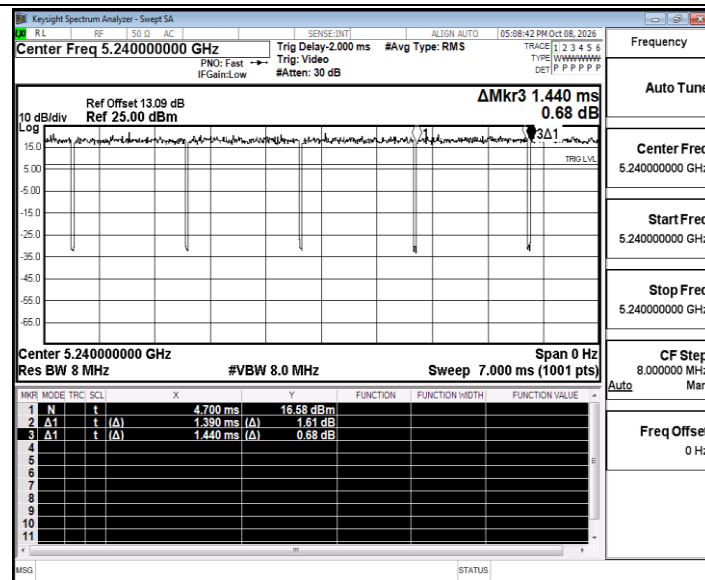
11A_Ant1_5180



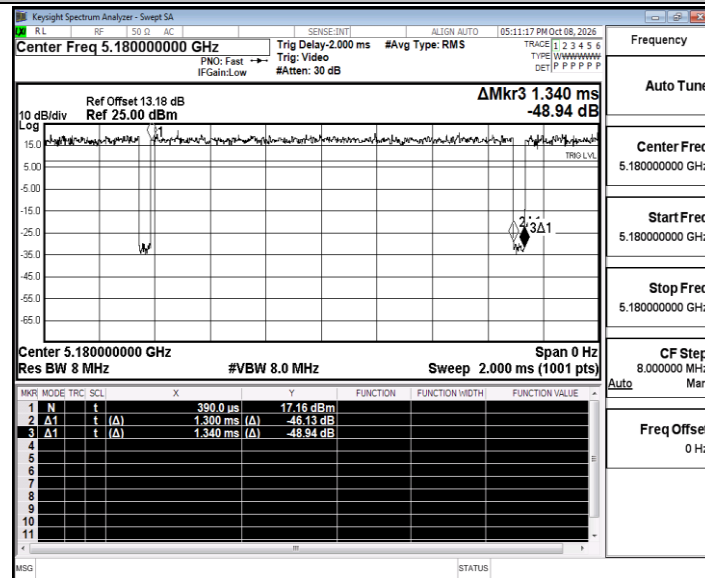
11A_Ant1_5200



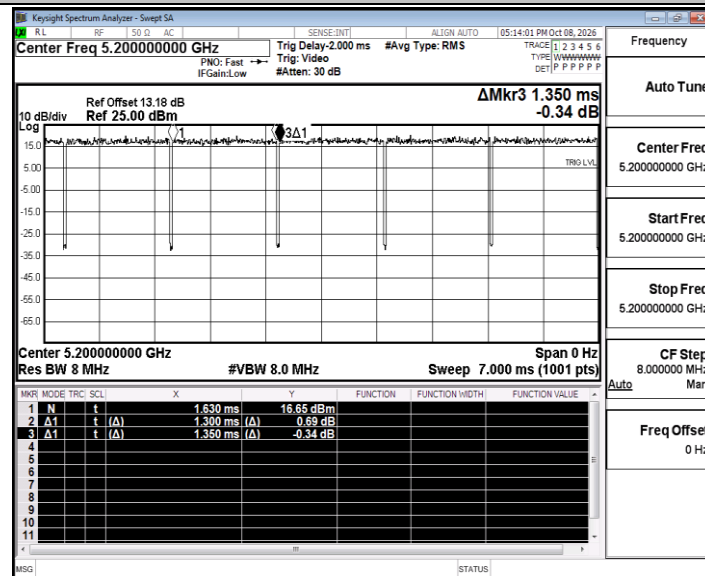
11A_Ant1_5240



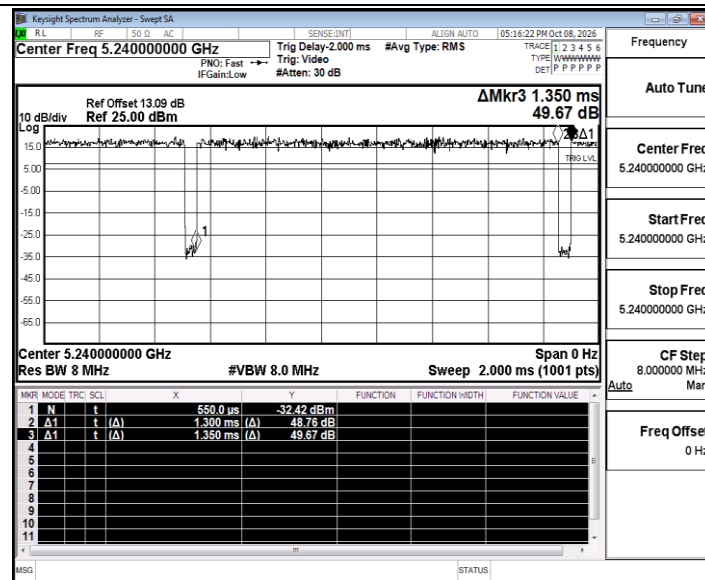
11N20SISO_Ant1_5180



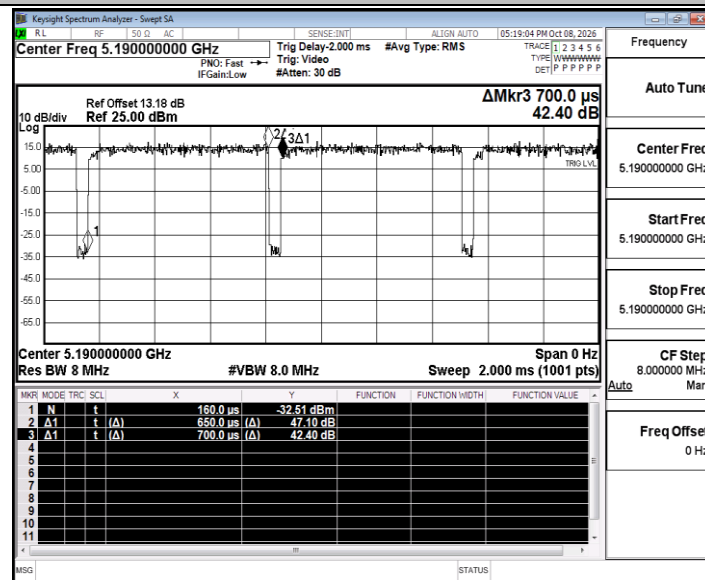
11N20SISO_Ant1_5200



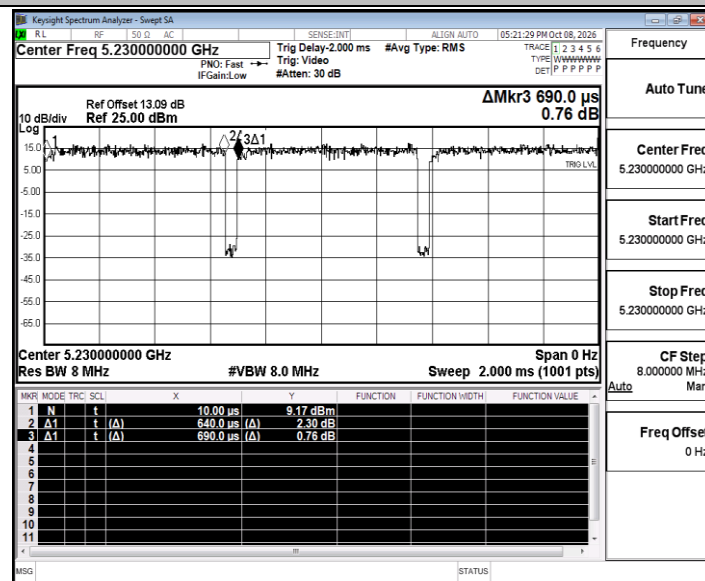
11N20SISO_Ant1_5240



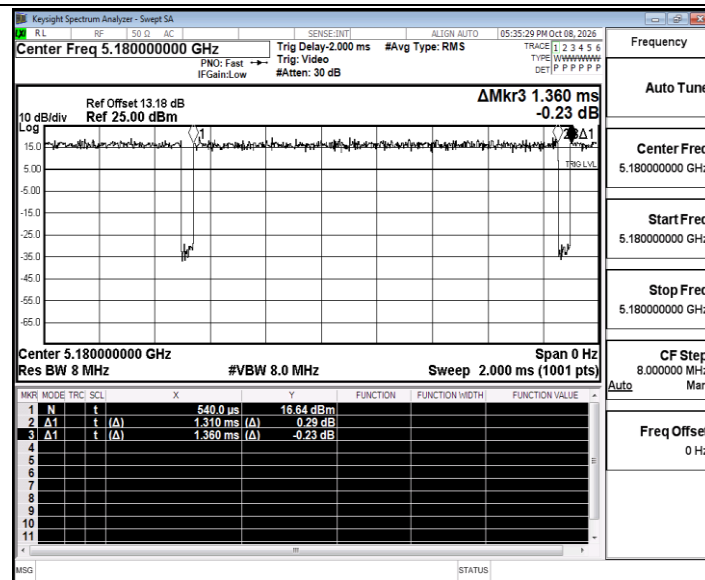
11N40SISO_Ant1_5190



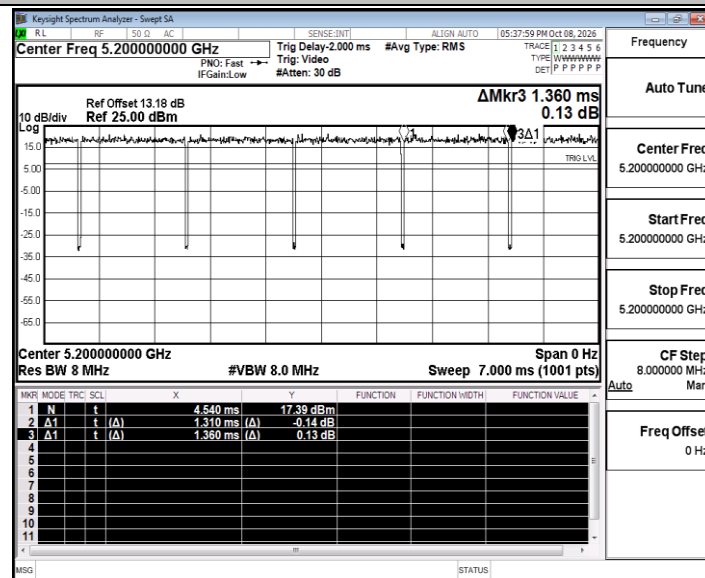
11N40SISO_Ant1_5230



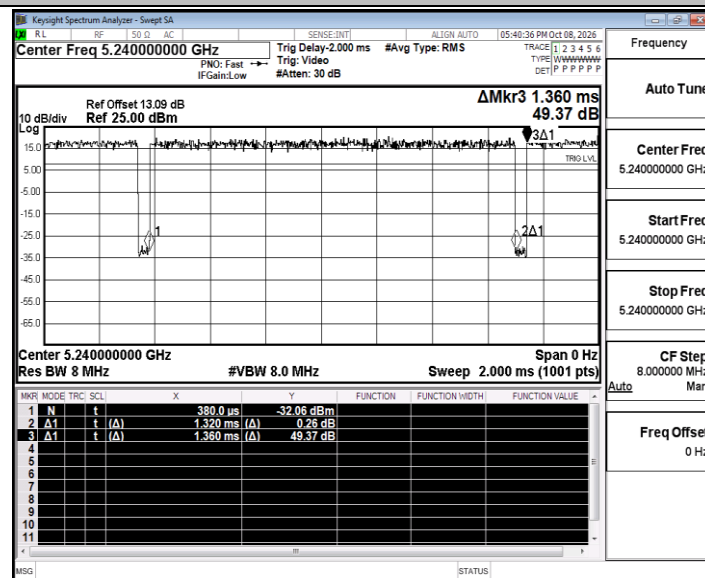
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190

