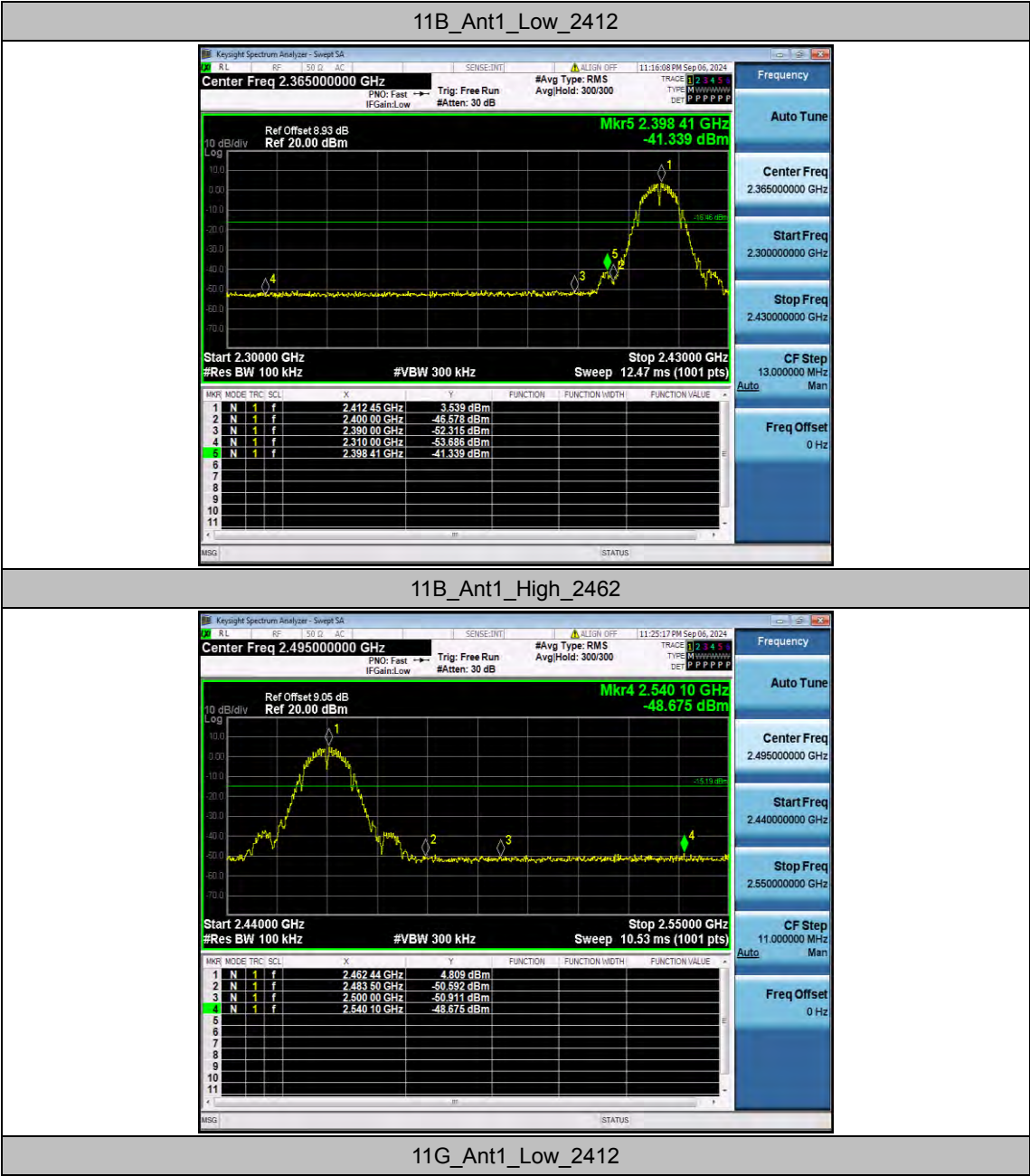


Appendix C.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.54	-41.34	≤ -16.46	PASS
		High	2462	4.81	-48.68	≤ -15.19	PASS
11G	Ant1	Low	2412	-0.83	-31.2	≤ -20.83	PASS
		High	2462	0.34	-48.03	≤ -19.66	PASS
11N20SISO	Ant1	Low	2412	-0.97	-32.24	≤ -20.97	PASS
		High	2462	0.56	-48.36	≤ -19.44	PASS
11N40SISO	Ant1	Low	2422	-5.05	-36.62	≤ -25.05	PASS
		High	2452	-3.57	-48.67	≤ -23.57	PASS
11AX20SISO	Ant1	Low	2412	-6.60	-36.58	≤ -26.6	PASS
		High	2462	-3.09	-48.4	≤ -23.09	PASS
11AX40SISO	Ant1	Low	2422	-6.66	-39.08	≤ -26.66	PASS
		High	2452	-6.43	-48.98	≤ -26.43	PASS

Test Graphs



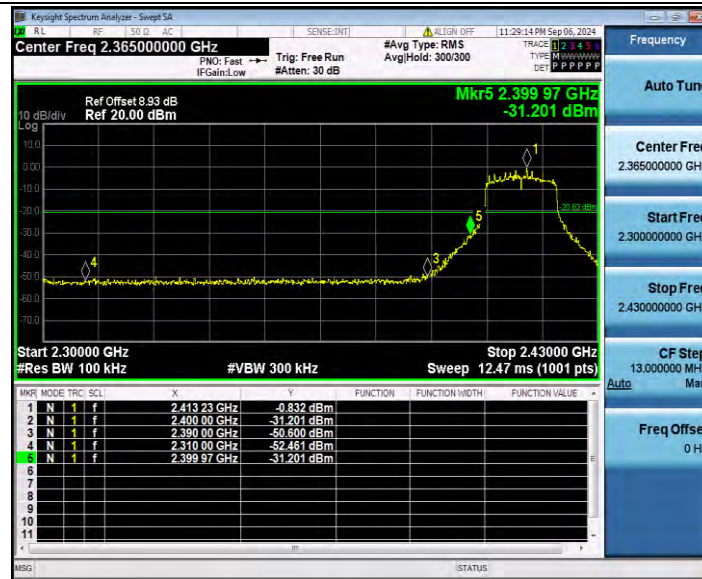
11B_Ant1_High_2462

Frequency

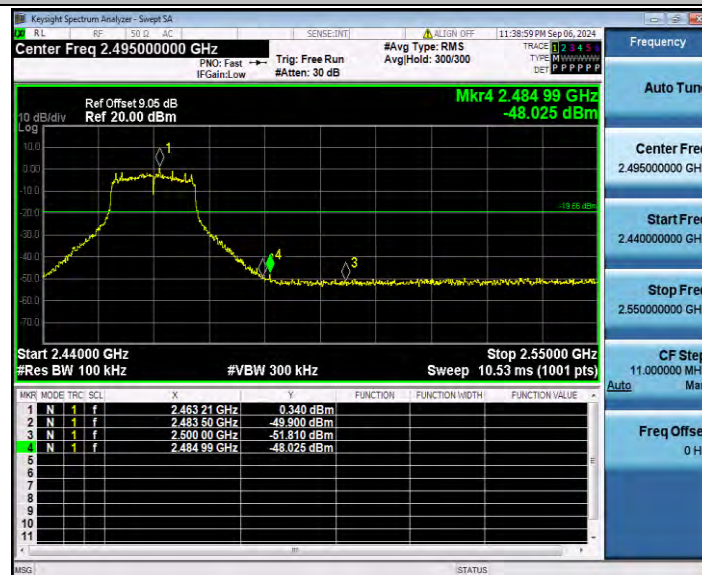
Auto Tune

Center Freq
2.495000000 GHzStart Freq
2.440000000 GHzStop Freq
2.550000000 GHzCF Step
11.000000 MHz
AutoFreq Offset
0 Hz

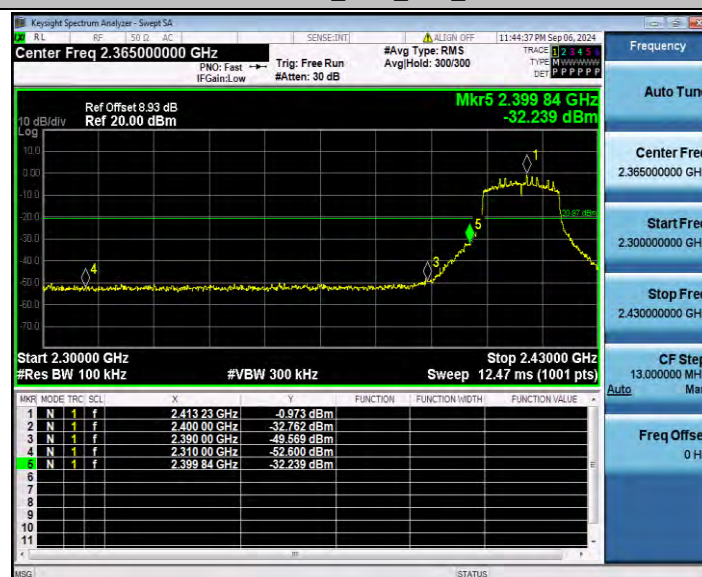
11G_Ant1_Low_2412



11G_Ant1_High_2462



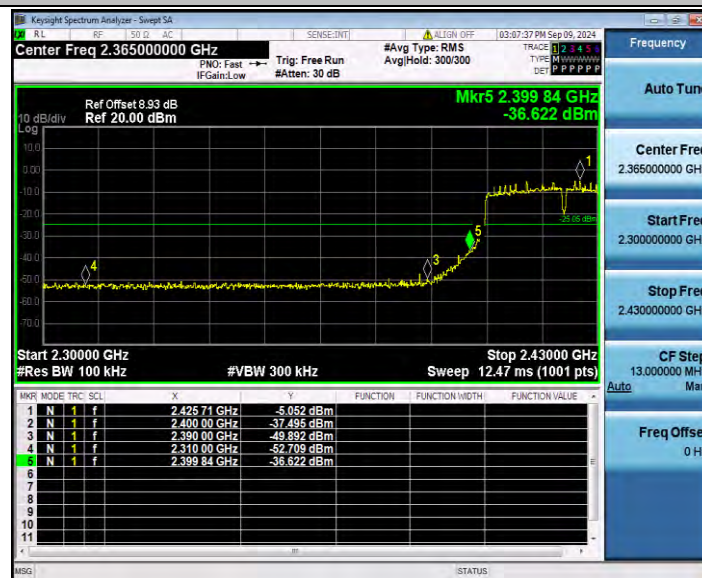
11N20SISO_Ant1_Low_2412



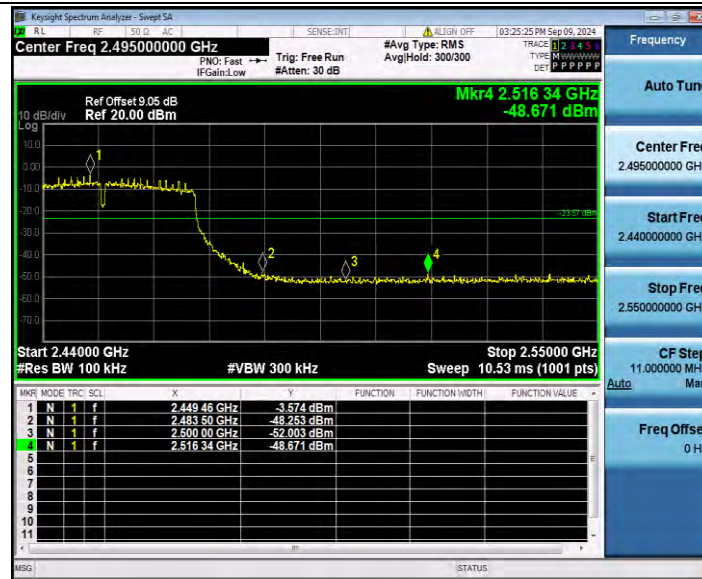
11N20SISO_Ant1_High_2462



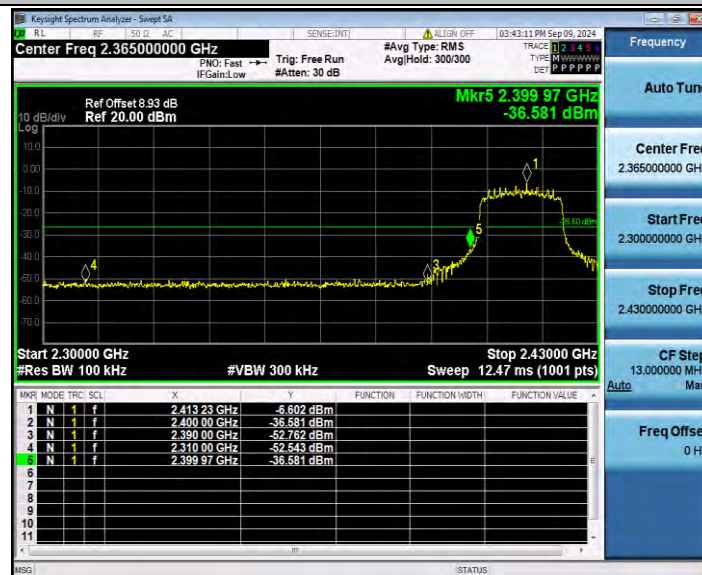
11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

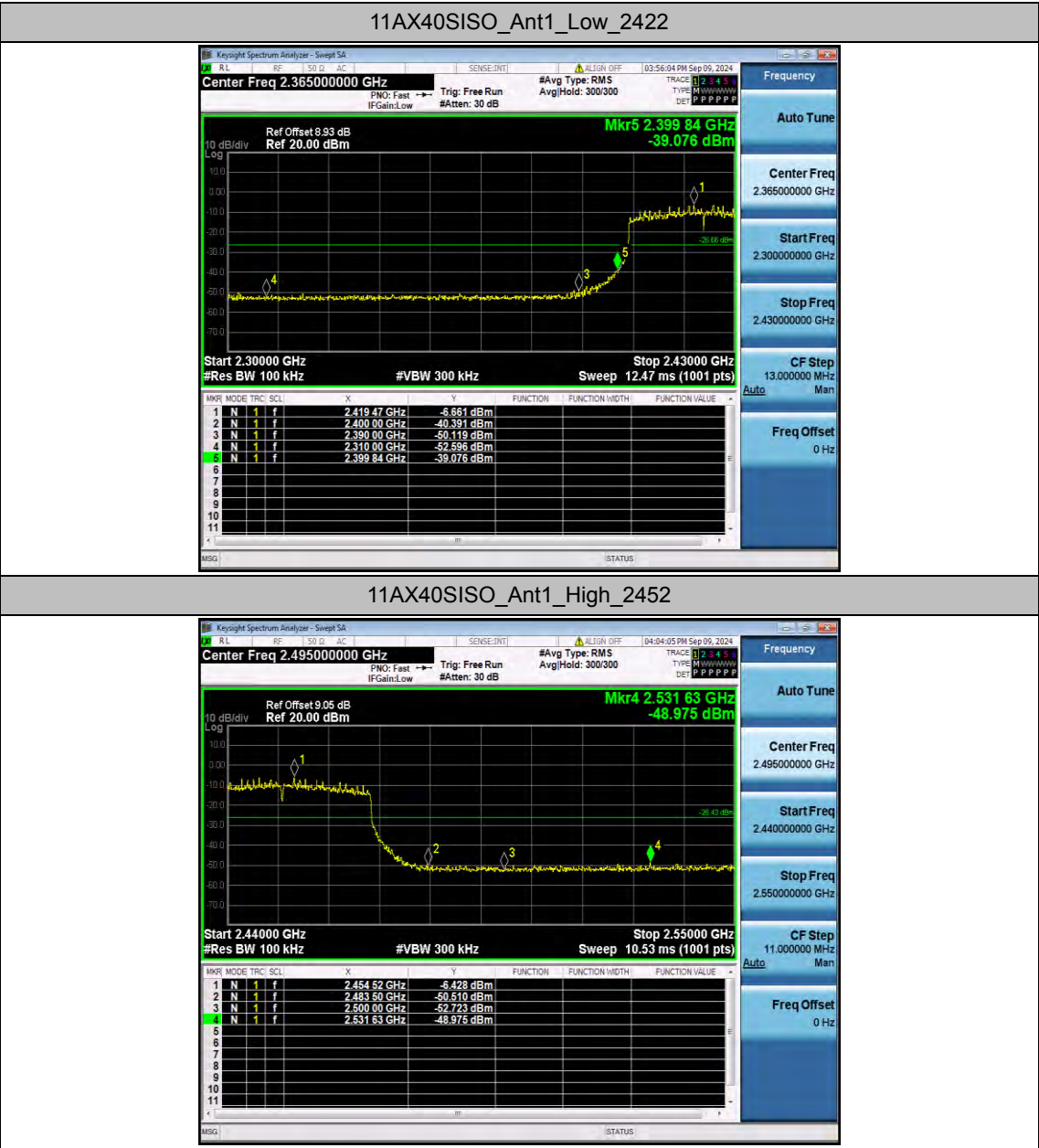


11AX20SISO_Ant1_Low_2412



11AX20SISO_Ant1_High_2462





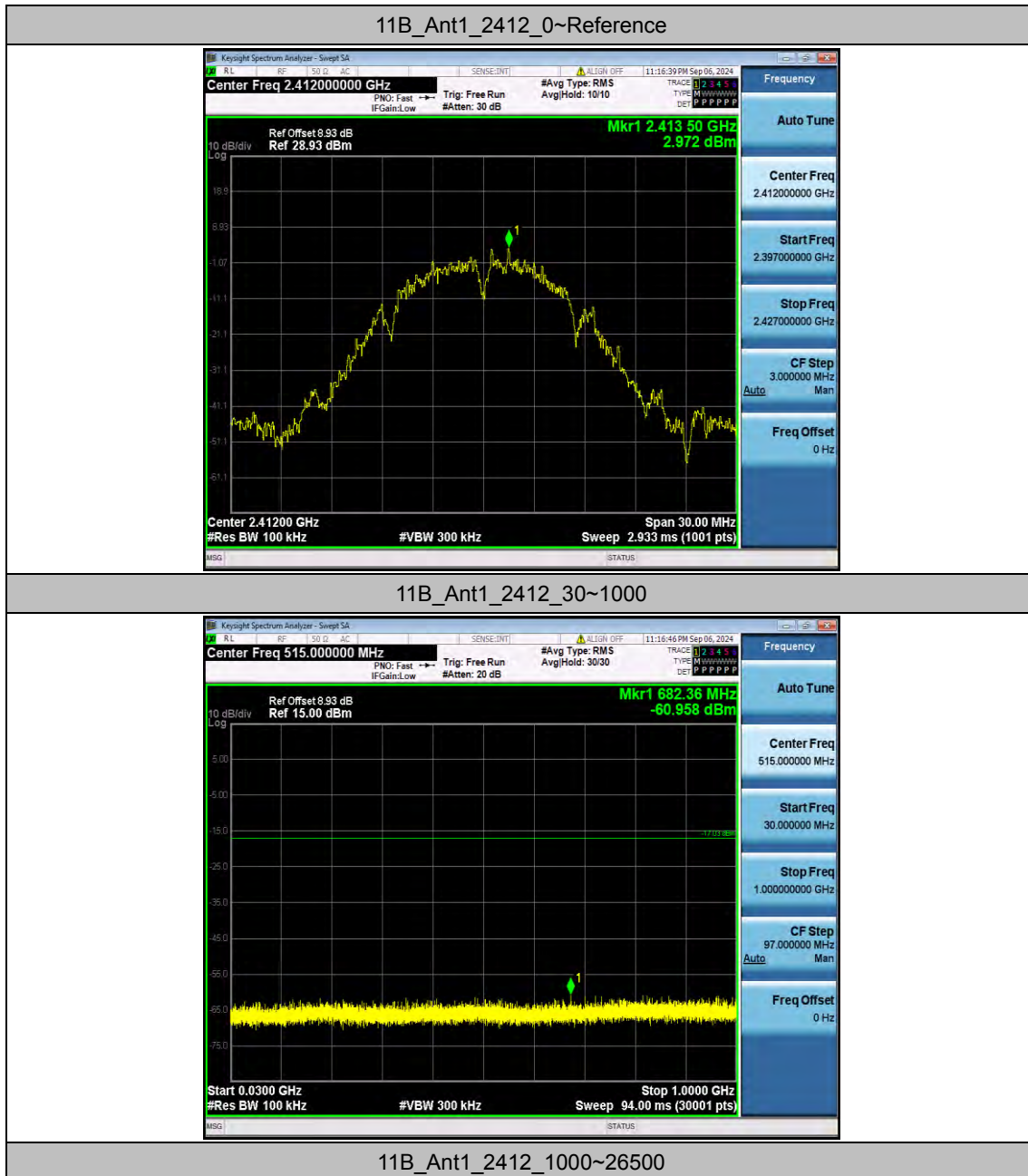
Appendix C.6: Conducted Spurious Emission

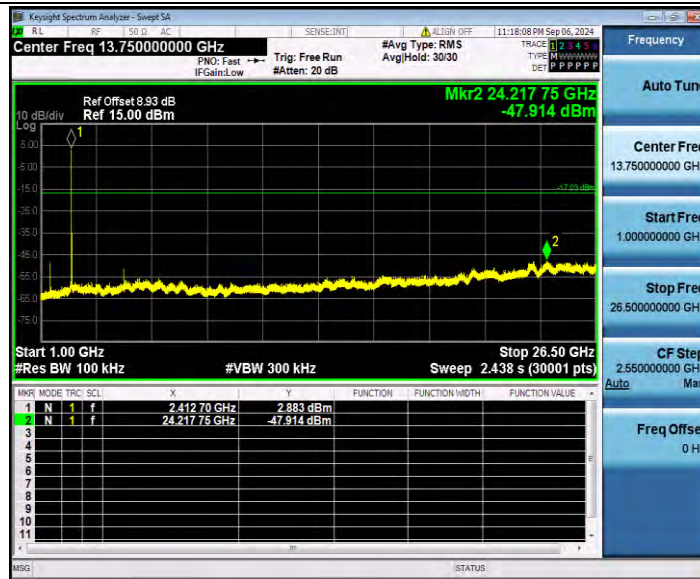
Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.97	2.97	---	PASS
			30~1000	2.97	-60.96	≤ -17.03	PASS
			1000~26500	2.97	-47.91	≤ -17.03	PASS
		2437	Reference	3.06	3.06	---	PASS
			30~1000	3.06	-60.16	≤ -16.94	PASS
			1000~26500	3.06	-47.59	≤ -16.94	PASS
		2462	Reference	4.62	4.62	---	PASS
			30~1000	4.62	-60.59	≤ -15.38	PASS
			1000~26500	4.62	-46.44	≤ -15.38	PASS
11G	Ant1	2412	Reference	-4.67	-4.67	---	PASS
			30~1000	-4.67	-60.59	≤ -24.67	PASS
			1000~26500	-4.67	-47.96	≤ -24.67	PASS
		2437	Reference	-3.74	-3.74	---	PASS
			30~1000	-3.74	-60.53	≤ -23.74	PASS
			1000~26500	-3.74	-48.03	≤ -23.74	PASS
		2462	Reference	-3.49	-3.49	---	PASS
			30~1000	-3.49	-60.66	≤ -23.49	PASS
			1000~26500	-3.49	-47.13	≤ -23.49	PASS
11N20SISO	Ant1	2412	Reference	-5.25	-5.25	---	PASS
			30~1000	-5.25	-60.86	≤ -25.25	PASS
			1000~26500	-5.25	-47.5	≤ -25.25	PASS
		2437	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-60.37	≤ -21.71	PASS
			1000~26500	-1.71	-47.49	≤ -21.71	PASS
		2462	Reference	-2.07	-2.07	---	PASS
			30~1000	-2.07	-60.87	≤ -22.07	PASS
			1000~26500	-2.07	-47.76	≤ -22.07	PASS
11N40SISO	Ant1	2422	Reference	-7.97	-7.97	---	PASS
			30~1000	-7.97	-61.26	≤ -27.97	PASS
			1000~26500	-7.97	-48.39	≤ -27.97	PASS
		2437	Reference	-6.10	-6.10	---	PASS
			30~1000	-6.10	-60.52	≤ -26.1	PASS
			1000~26500	-6.10	-47.9	≤ -26.1	PASS
		2452	Reference	-6.99	-6.99	---	PASS
			30~1000	-6.99	-60.73	≤ -26.99	PASS
			1000~26500	-6.99	-47.69	≤ -26.99	PASS

11AX20SISO	Ant1	2412	Reference	4.87	4.87	---	PASS
			30~1000	4.87	-60.7	≤ -15.13	PASS
			1000~26500	4.87	-48.03	≤ -15.13	PASS
		2437	Reference	7.22	7.22	---	PASS
			30~1000	7.22	-59.6	≤ -12.78	PASS
			1000~26500	7.22	-47.89	≤ -12.78	PASS
		2462	Reference	7.73	7.73	---	PASS
			30~1000	7.73	-60.63	≤ -12.27	PASS
			1000~26500	7.73	-47.71	≤ -12.27	PASS
11AX40SISO	Ant1	2422	Reference	-9.50	-9.50	---	PASS
			30~1000	-9.50	-60.66	≤ -29.5	PASS
			1000~26500	-9.50	-48.12	≤ -29.5	PASS
		2437	Reference	-6.17	-6.17	---	PASS
			30~1000	-6.17	-60.03	≤ -26.17	PASS
			1000~26500	-6.17	-47.56	≤ -26.17	PASS
		2452	Reference	-9.67	-9.67	---	PASS
			30~1000	-9.67	-60.41	≤ -29.67	PASS
			1000~26500	-9.67	-45.26	≤ -29.67	PASS

Test Graphs

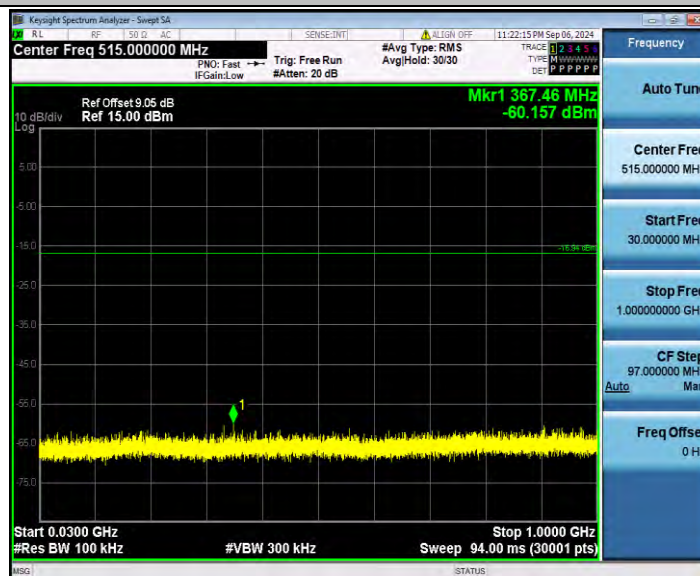




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



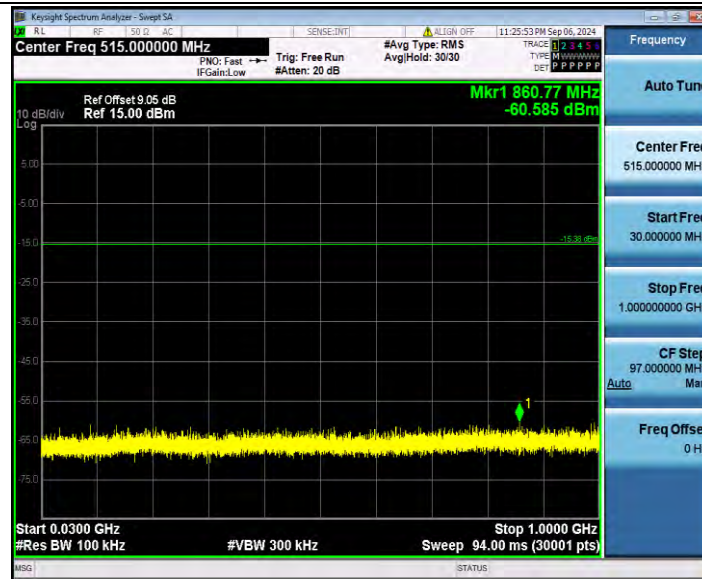
11B_Ant1_2437_1000~26500



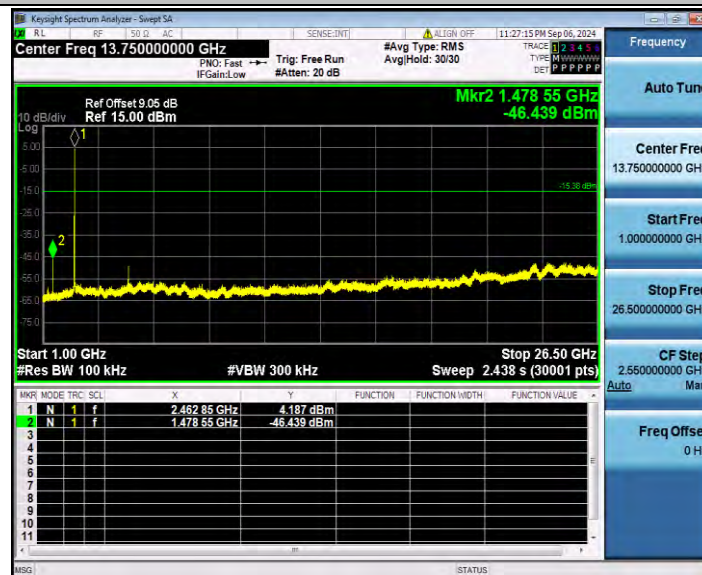
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

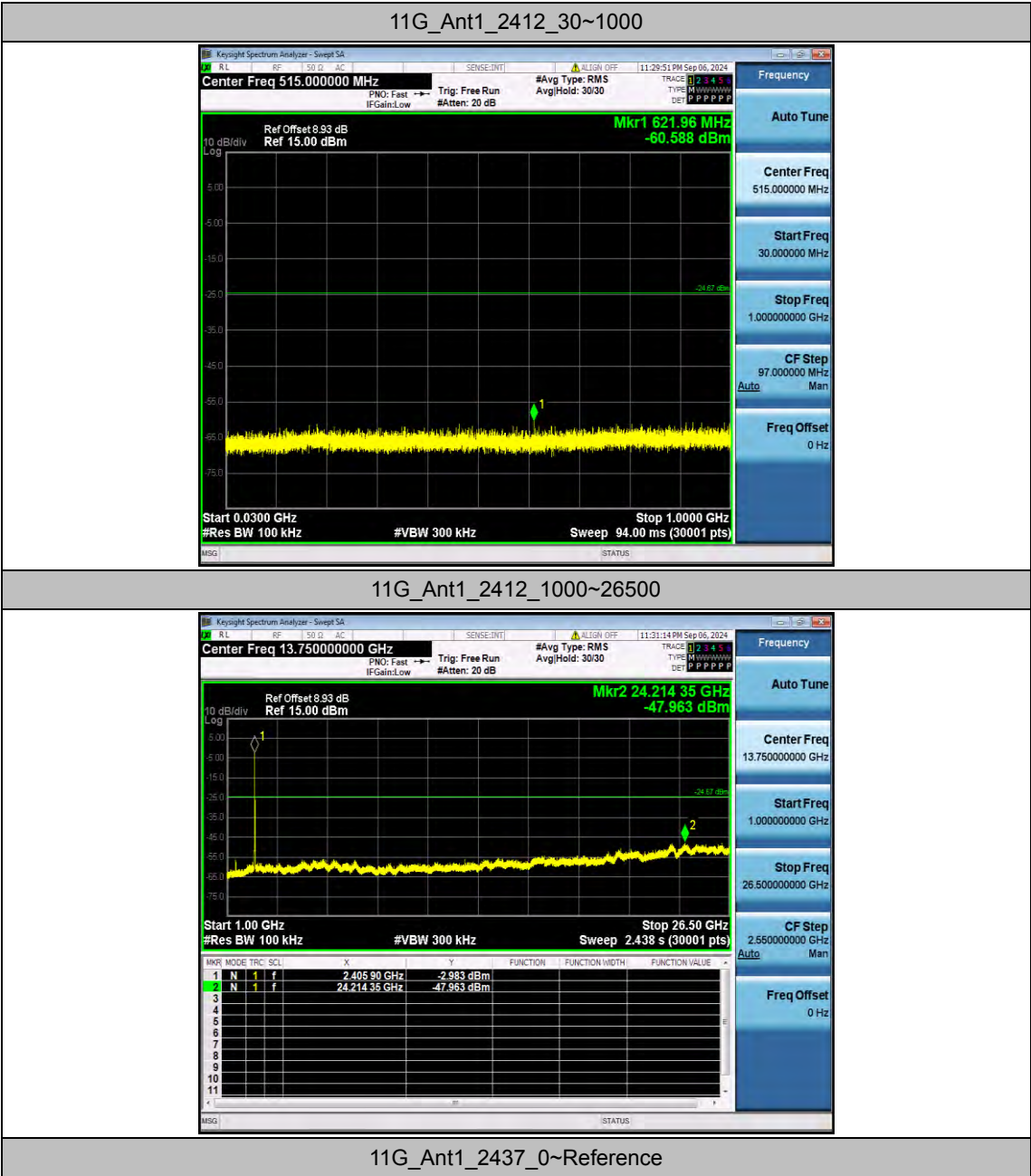


11B_Ant1_2462_1000~26500



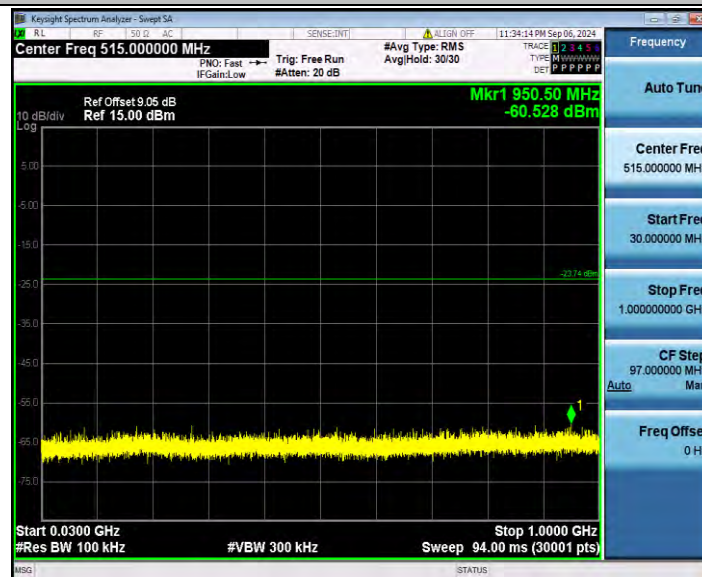
11G_Ant1_2412_0~Reference







11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



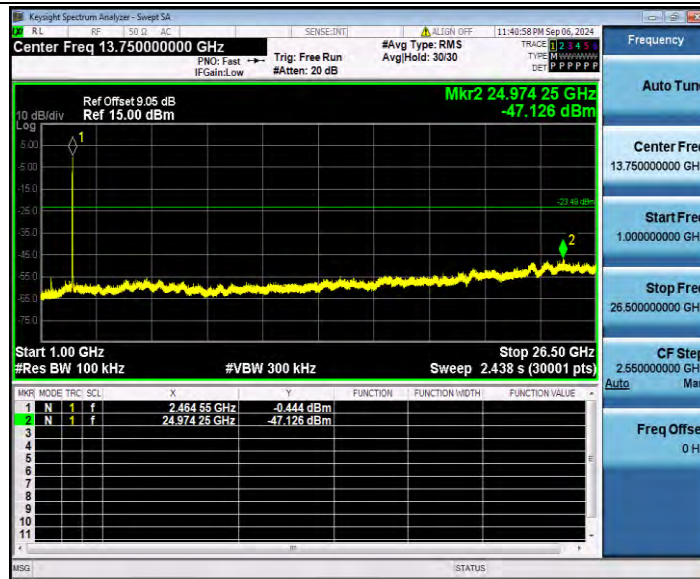
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



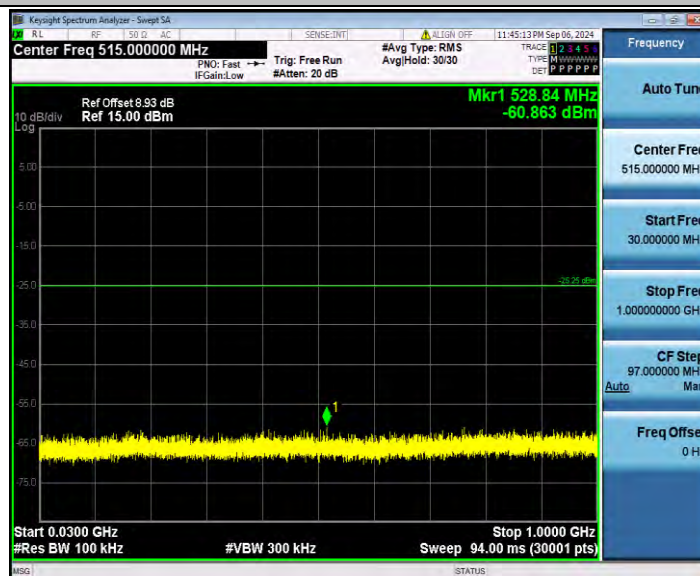
11G_Ant1_2462_1000~26500

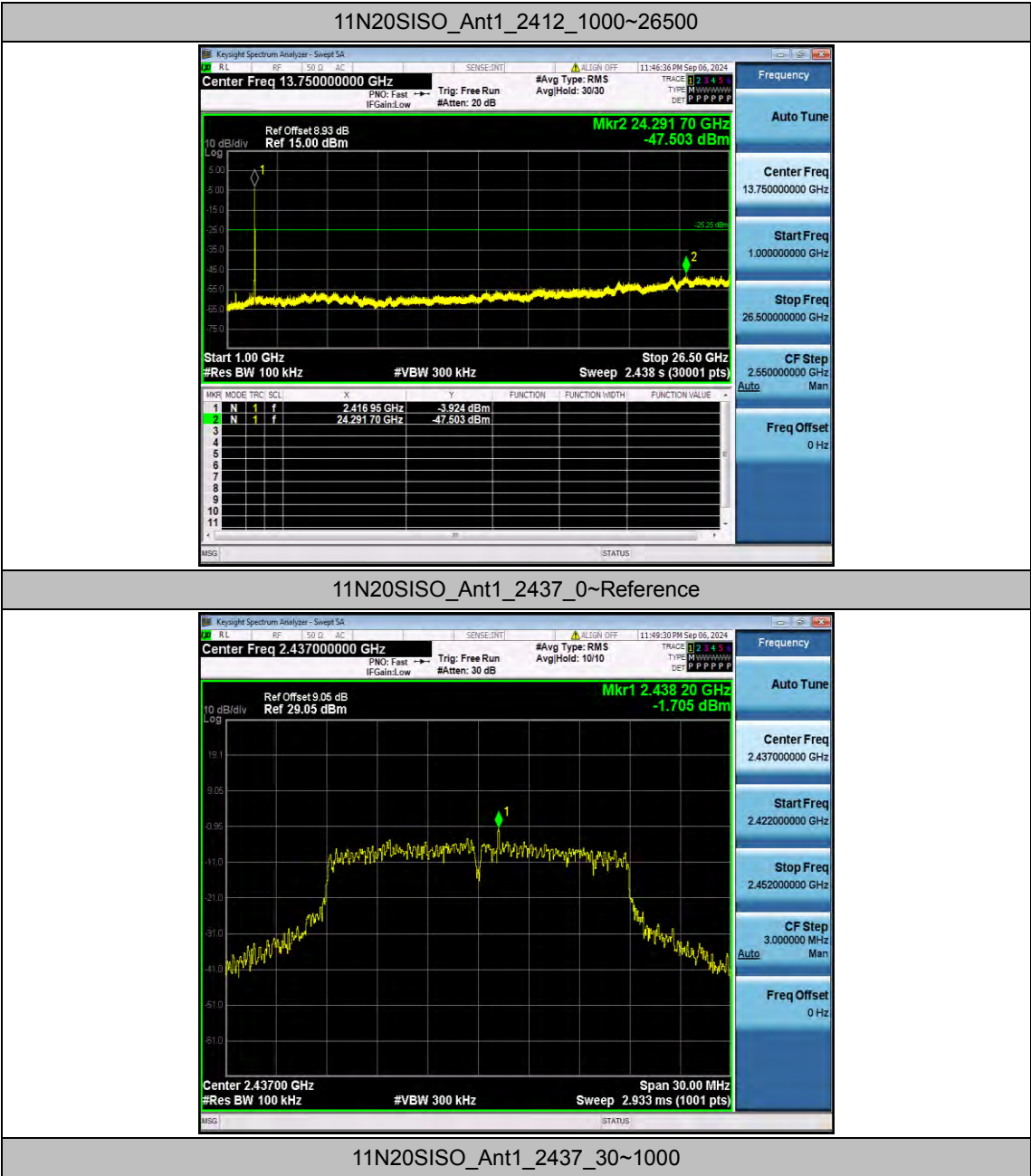


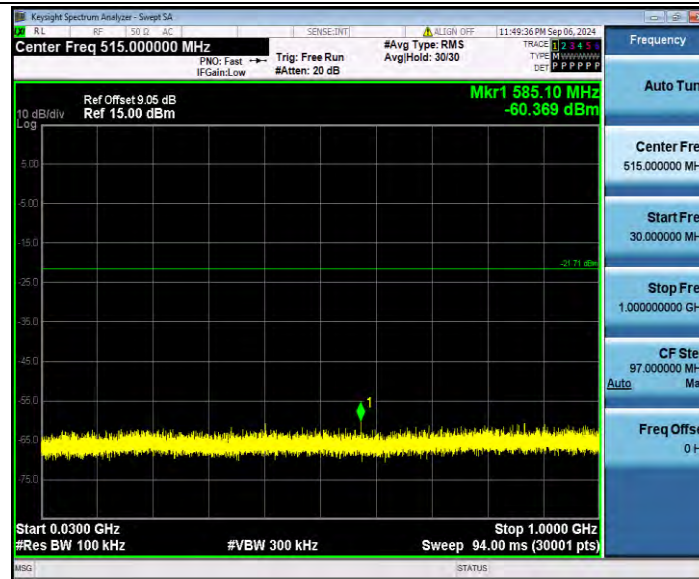
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000





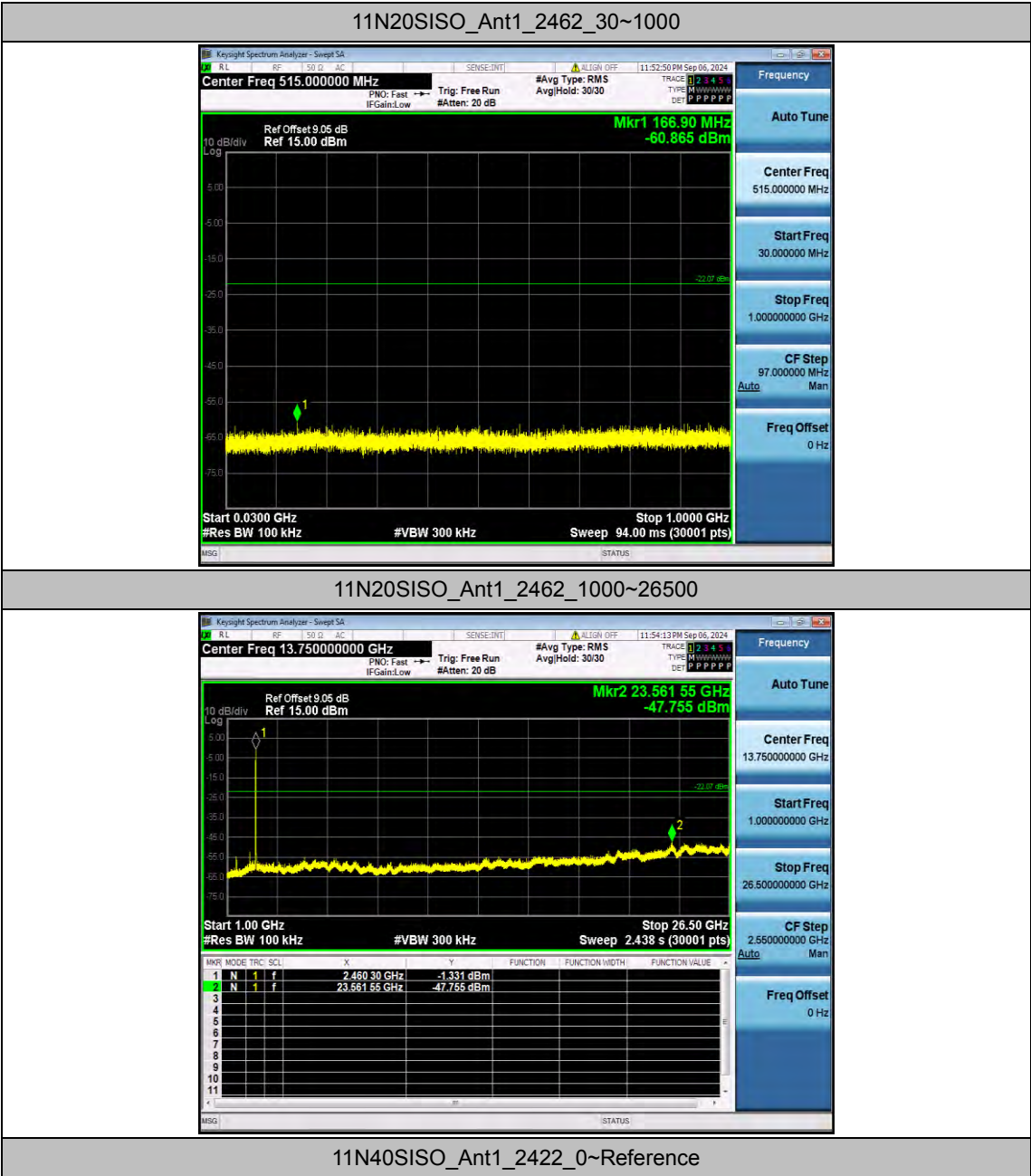


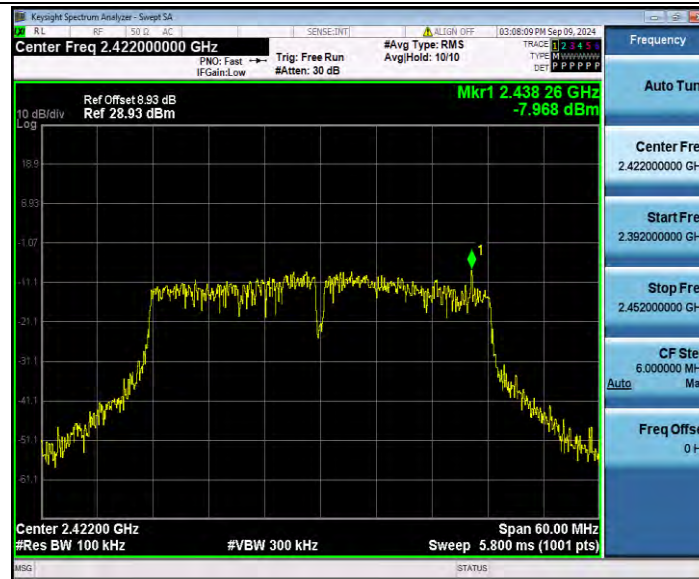
11N20SISO_Ant1_2437_1000~26500



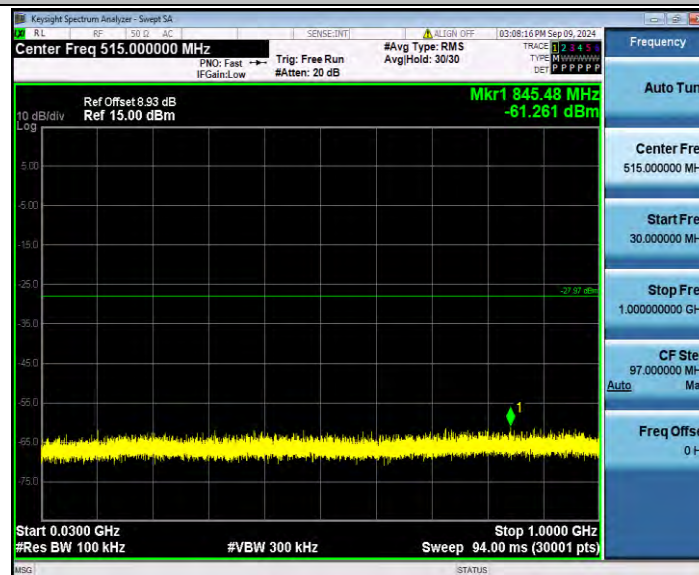
11N20SISO_Ant1_2462_0~Reference







11N40SISO_Ant1_2422_30~1000



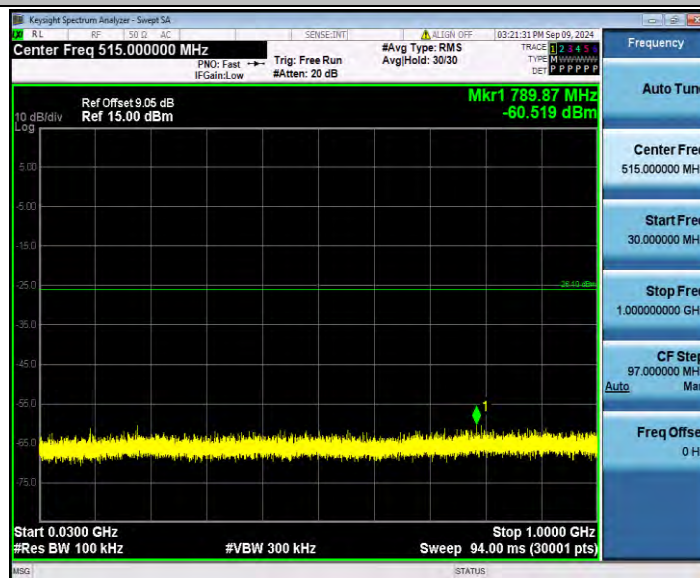
11N40SISO_Ant1_2422_1000~26500



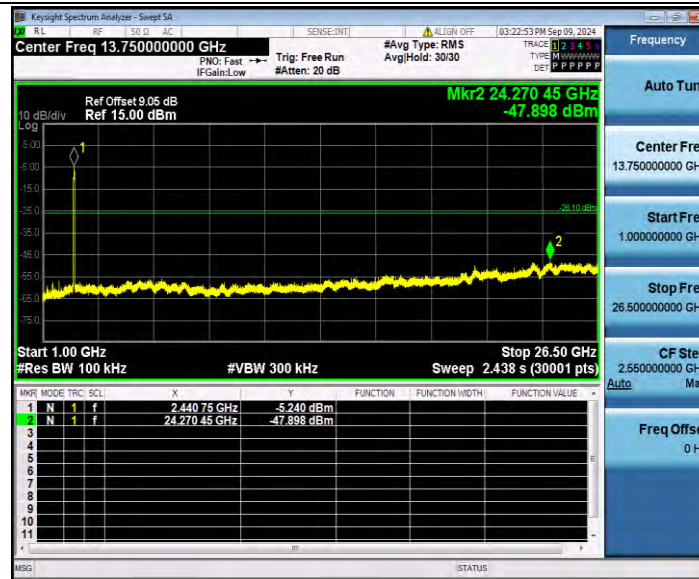
11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



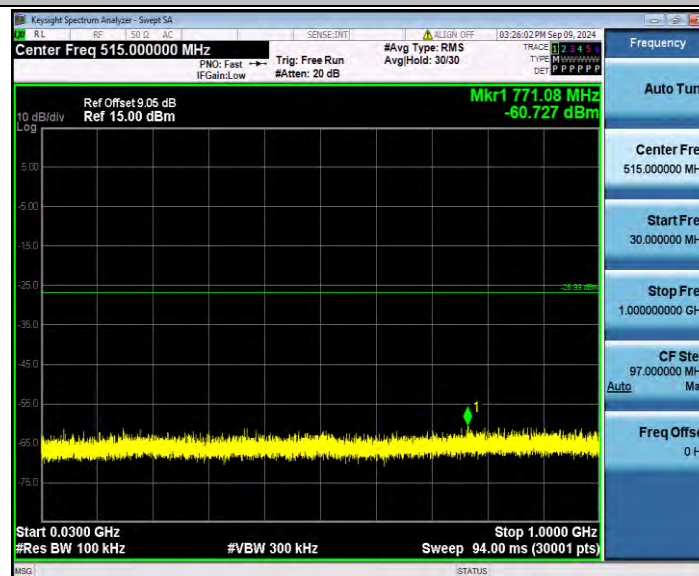
11N40SISO_Ant1_2437_1000~26500



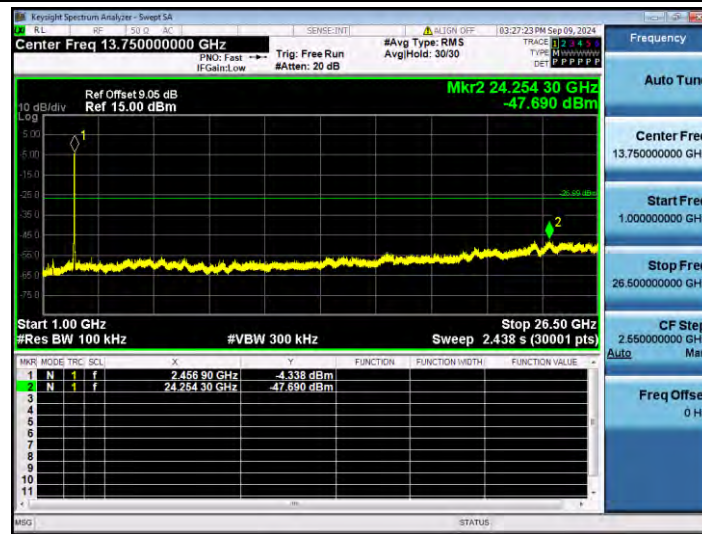
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



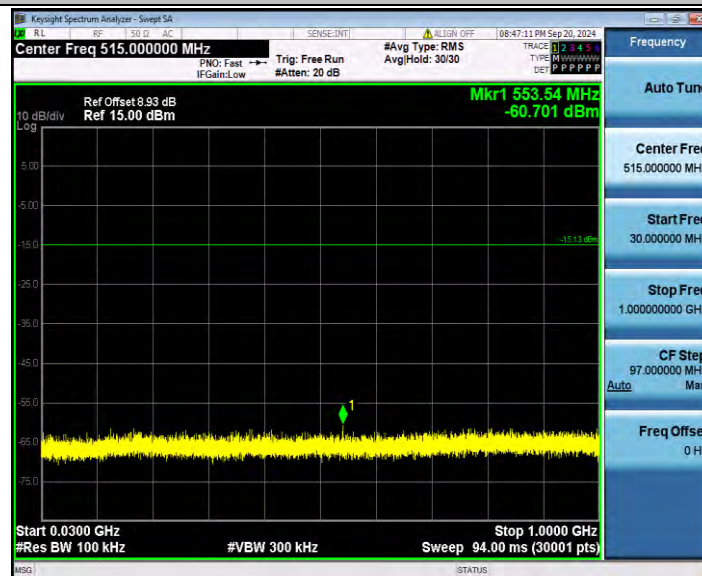
11N40SISO_Ant1_2452_1000~26500



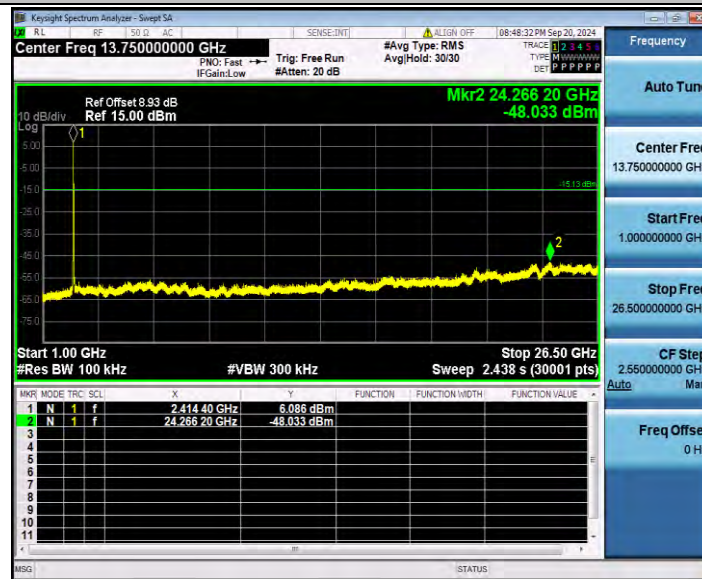
11AX20SISO_Ant1_2412_0~Reference



11AX20SISO_Ant1_2412_30~1000



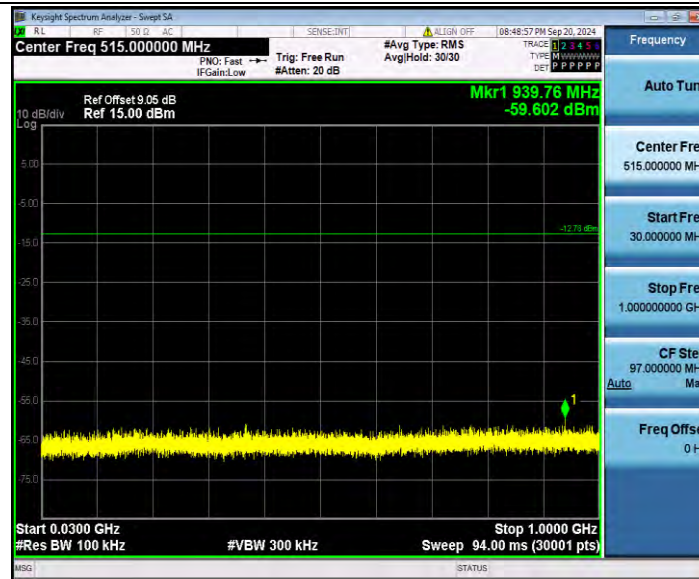
11AX20SISO_Ant1_2412_1000~26500



11AX20SISO_Ant1_2437_0~Reference



11AX20SISO_Ant1_2437_30~1000

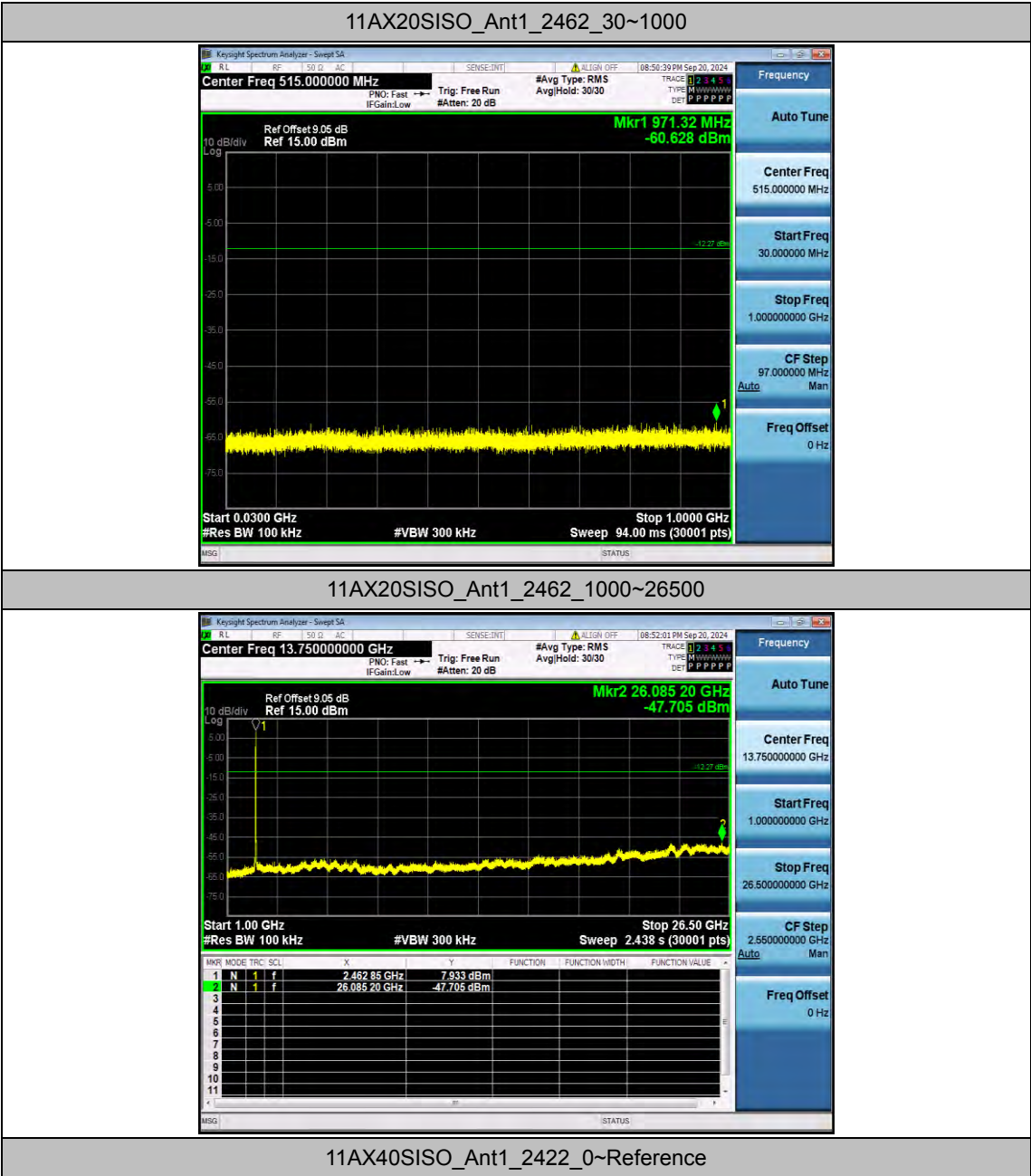


11AX20SISO_Ant1_2437_1000~26500



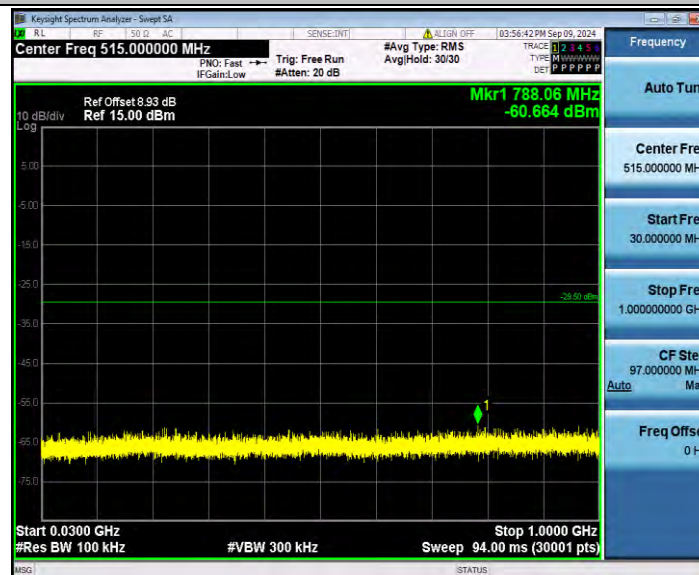
11AX20SISO_Ant1_2462_0~Reference







11AX40SISO_Ant1_2422_30~1000



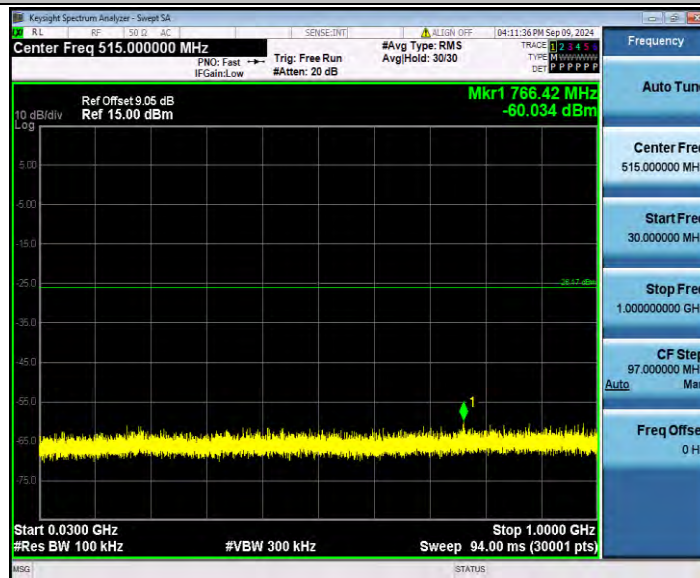
11AX40SISO_Ant1_2422_1000~26500



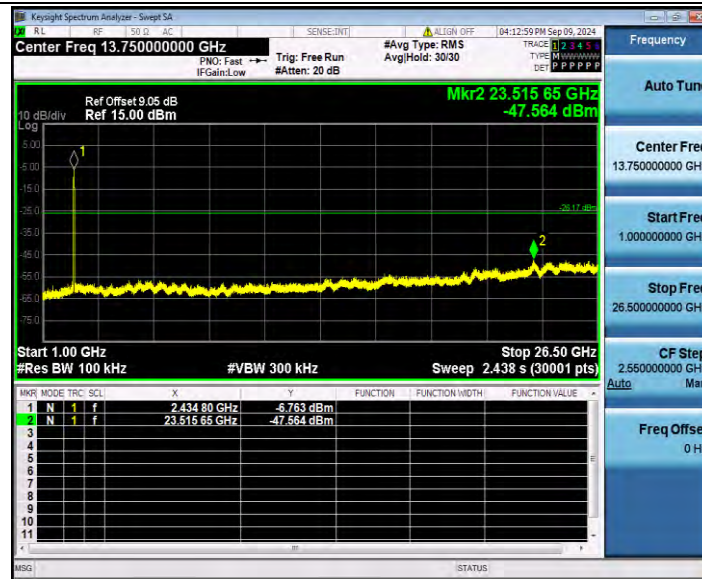
11AX40SISO_Ant1_2437_0~Reference



11AX40SISO_Ant1_2437_30~1000



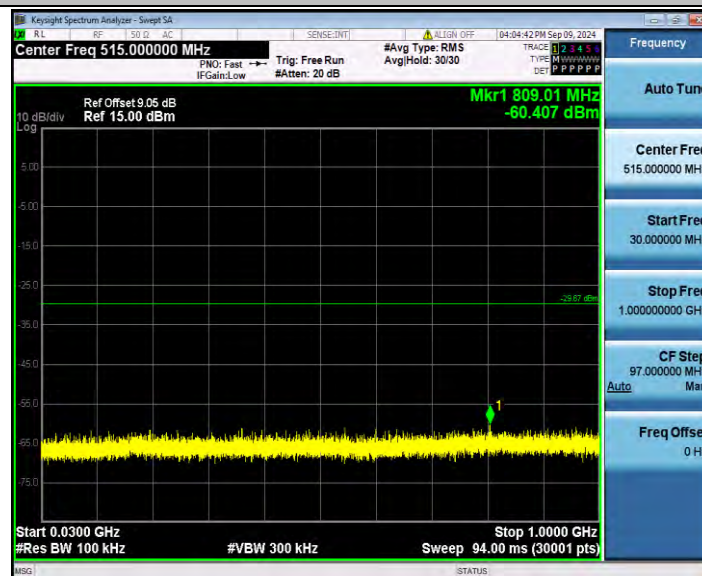
11AX40SISO_Ant1_2437_1000~26500

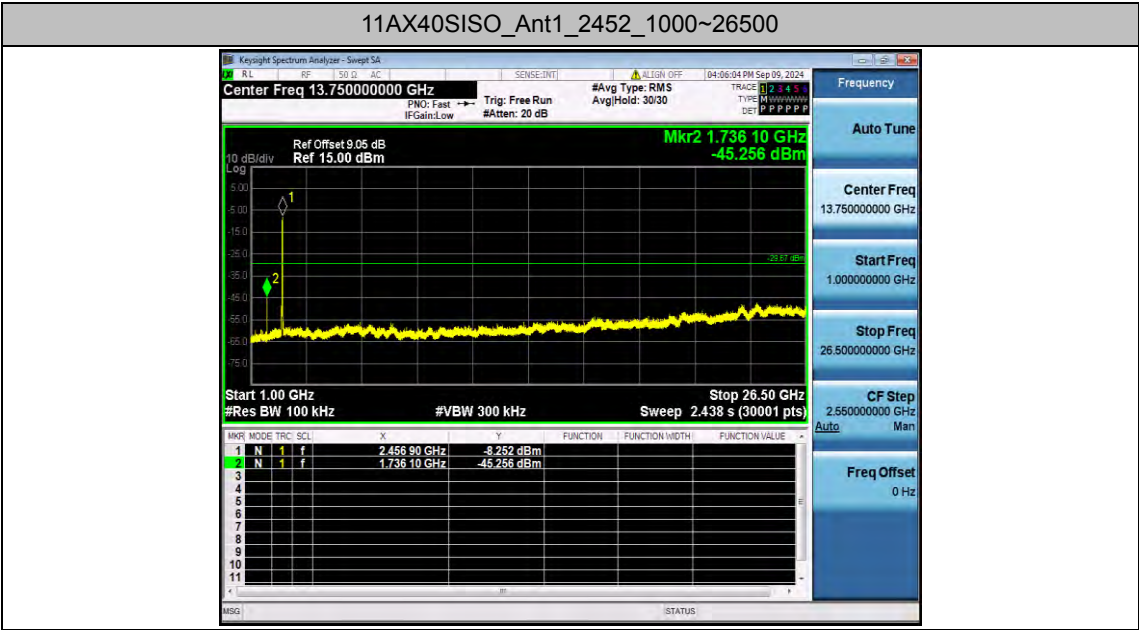


11AX40SISO_Ant1_2452_0-Reference



11AX40SISO_Ant1_2452_30~1000





Appendix C.7: Emissions in Restricted Bands

Test Result

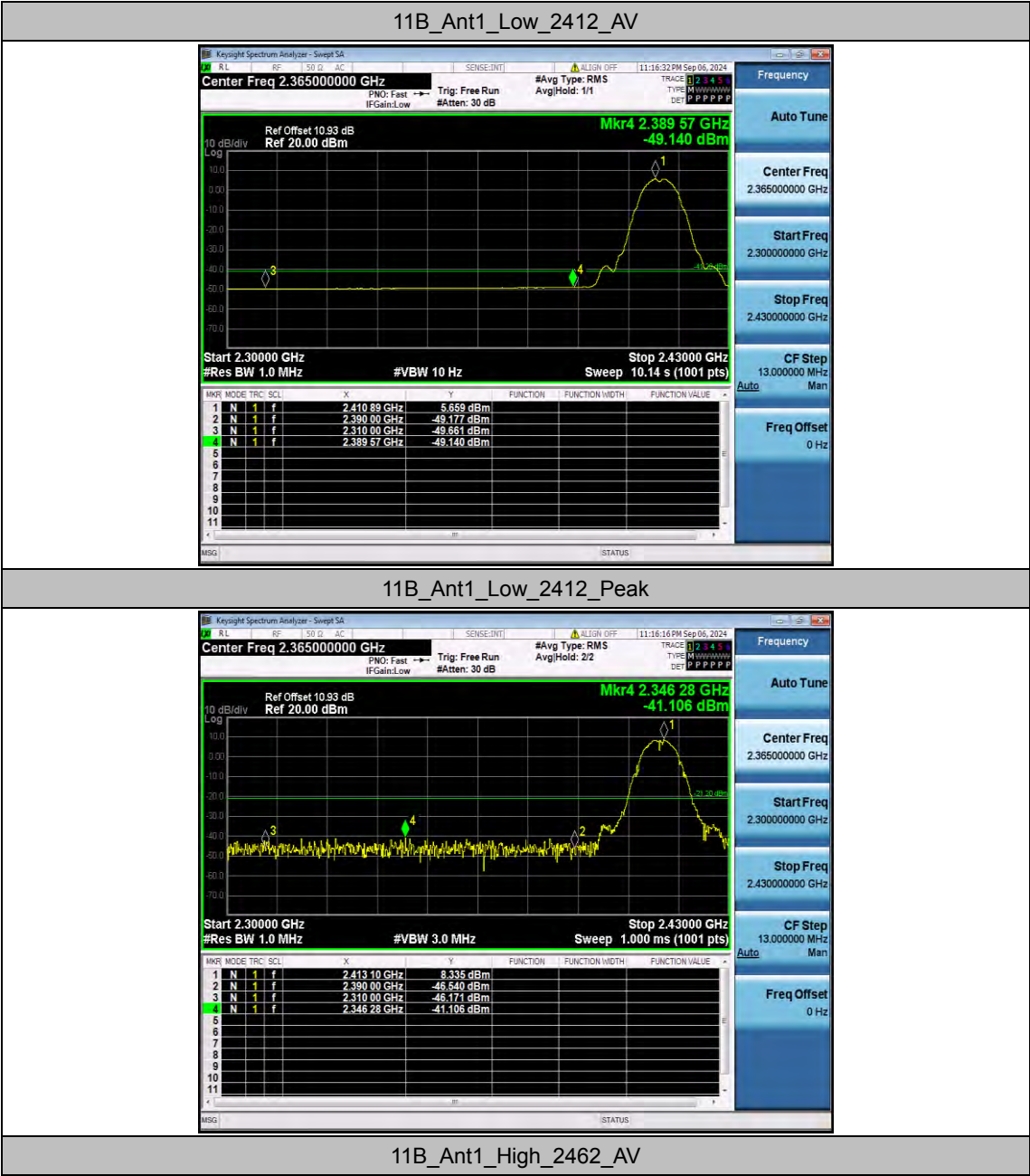
TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.66	≤-41.20	45.54	≤54	PASS
				AV	2389.570	-49.14	≤-41.20	46.06	≤54	PASS
				AV	2390.000	-49.18	≤-41.20	46.02	≤54	PASS
				Peak	2310.000	-46.17	≤-21.20	49.03	≤74	PASS
				Peak	2346.280	-41.11	≤-21.20	54.09	≤74	PASS
				Peak	2390.000	-46.54	≤-21.20	48.66	≤74	PASS
		High	2462	AV	2483.500	-48.13	≤-41.20	47.07	≤54	PASS
				AV	2483.670	-48.14	≤-41.20	47.06	≤54	PASS
				AV	2500.000	-48.7	≤-41.20	46.50	≤54	PASS
				Peak	2483.500	-44.5	≤-21.20	50.70	≤74	PASS
				Peak	2485.540	-39.88	≤-21.20	55.32	≤74	PASS
				Peak	2500.000	-43.54	≤-21.20	51.66	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.52	≤-41.20	45.68	≤54	PASS
				AV	2389.960	-47.33	≤-41.20	47.87	≤54	PASS
				AV	2390.000	-47.33	≤-41.20	47.87	≤54	PASS
				Peak	2310.000	-49.66	≤-21.20	45.54	≤74	PASS
				Peak	2388.530	-40.36	≤-21.20	54.84	≤74	PASS
				Peak	2390.000	-45.19	≤-21.20	50.01	≤74	PASS
		High	2462	AV	2483.500	-46.65	≤-41.20	48.55	≤54	PASS
				AV	2483.560	-46.79	≤-41.20	48.41	≤54	PASS
				AV	2500.000	-48.8	≤-41.20	46.40	≤54	PASS
				Peak	2483.500	-39.19	≤-21.20	56.01	≤74	PASS
				Peak	2486.420	-37.09	≤-21.20	58.11	≤74	PASS
				Peak	2500.000	-46.4	≤-21.20	48.80	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.54	≤-41.20	45.66	≤54	PASS
				AV	2389.960	-47.01	≤-41.20	48.19	≤54	PASS
				AV	2390.000	-47.01	≤-41.20	48.19	≤54	PASS
				Peak	2310.000	-50.72	≤-21.20	44.48	≤74	PASS
				Peak	2389.570	-40.33	≤-21.20	54.87	≤74	PASS
				Peak	2390.000	-41.6	≤-21.20	53.60	≤74	PASS
		High	2462	AV	2483.500	-46.23	≤-41.20	48.97	≤54	PASS
				AV	2483.560	-46.29	≤-41.20	48.91	≤54	PASS
				AV	2500.000	-48.81	≤-41.20	46.39	≤54	PASS
				Peak	2483.500	-46.27	≤-21.20	48.93	≤74	PASS
				Peak	2483.670	-39.4	≤-21.20	55.80	≤74	PASS

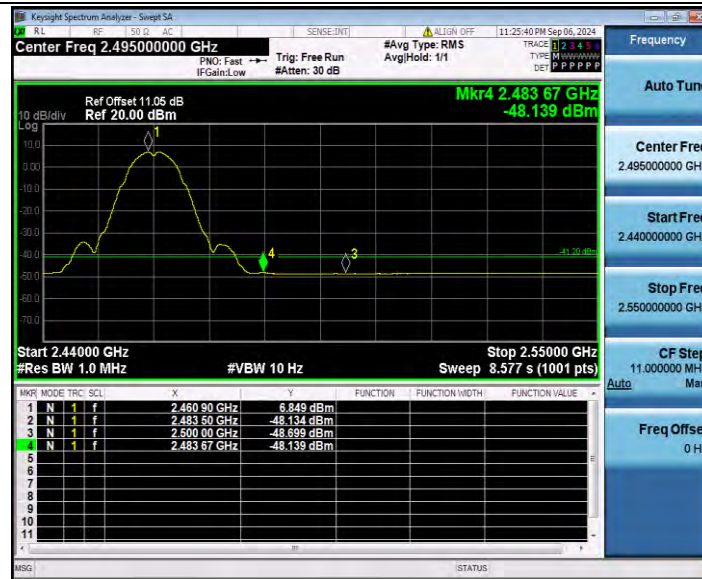
				Peak	2500.000	-45.47	≤ -21.20	49.73	≤ 74	PASS
11N40SIS O	Ant1	Low	2422	AV	2310.000	-49.86	≤ -41.20	45.34	≤ 54	PASS
				AV	2389.830	-48.66	≤ -41.20	46.54	≤ 54	PASS
				AV	2390.000	-48.67	≤ -41.20	46.53	≤ 54	PASS
				Peak	2310.000	-48.31	≤ -21.20	46.89	≤ 74	PASS
				Peak	2341.860	-40.63	≤ -21.20	54.57	≤ 74	PASS
				Peak	2390.000	-48.39	≤ -21.20	46.81	≤ 74	PASS
		High	2452	AV	2483.500	-47.86	≤ -41.20	47.34	≤ 54	PASS
				AV	2483.560	-47.89	≤ -41.20	47.31	≤ 54	PASS
				AV	2500.000	-48.84	≤ -41.20	46.36	≤ 54	PASS
				Peak	2483.500	-43.67	≤ -21.20	51.53	≤ 74	PASS
				Peak	2498.190	-40.14	≤ -21.20	55.06	≤ 74	PASS
				Peak	2500.000	-44.31	≤ -21.20	50.89	≤ 74	PASS
11AX20SI SO	Ant1	Low	2412	AV	2310.000	-49.8	≤ -41.20	45.40	≤ 54	PASS
				AV	2389.960	-49.17	≤ -41.20	46.03	≤ 54	PASS
				AV	2390.000	-49.17	≤ -41.20	46.03	≤ 54	PASS
				Peak	2310.000	-46.32	≤ -21.20	48.88	≤ 74	PASS
				Peak	2355.510	-40.67	≤ -21.20	54.53	≤ 74	PASS
				Peak	2390.000	-45.26	≤ -21.20	49.94	≤ 74	PASS
		High	2462	AV	2483.500	-48.38	≤ -41.20	46.82	≤ 54	PASS
				AV	2483.560	-48.48	≤ -41.20	46.72	≤ 54	PASS
				AV	2500.000	-48.86	≤ -41.20	46.34	≤ 54	PASS
				Peak	2483.500	-47.26	≤ -21.20	47.94	≤ 74	PASS
				Peak	2497.750	-39.56	≤ -21.20	55.64	≤ 74	PASS
				Peak	2500.000	-44.63	≤ -21.20	50.57	≤ 74	PASS
11AX40SI SO	Ant1	Low	2422	AV	2310.000	-49.77	≤ -41.20	45.43	≤ 54	PASS
				AV	2389.960	-49.16	≤ -41.20	46.04	≤ 54	PASS
				AV	2390.000	-49.16	≤ -41.20	46.04	≤ 54	PASS
				Peak	2310.000	-43.48	≤ -21.20	51.72	≤ 74	PASS
				Peak	2357.070	-40.02	≤ -21.20	55.18	≤ 74	PASS
				Peak	2390.000	-51.32	≤ -21.20	43.88	≤ 74	PASS
		High	2452	AV	2483.500	-48.87	≤ -41.20	46.33	≤ 54	PASS
				AV	2497.420	-48.83	≤ -41.20	46.37	≤ 54	PASS
				AV	2500.000	-48.86	≤ -41.20	46.34	≤ 54	PASS
				Peak	2483.500	-49.42	≤ -21.20	45.78	≤ 74	PASS
				Peak	2497.750	-40.42	≤ -21.20	54.78	≤ 74	PASS
				Peak	2500.000	-44.7	≤ -21.20	50.50	≤ 74	PASS

Note:

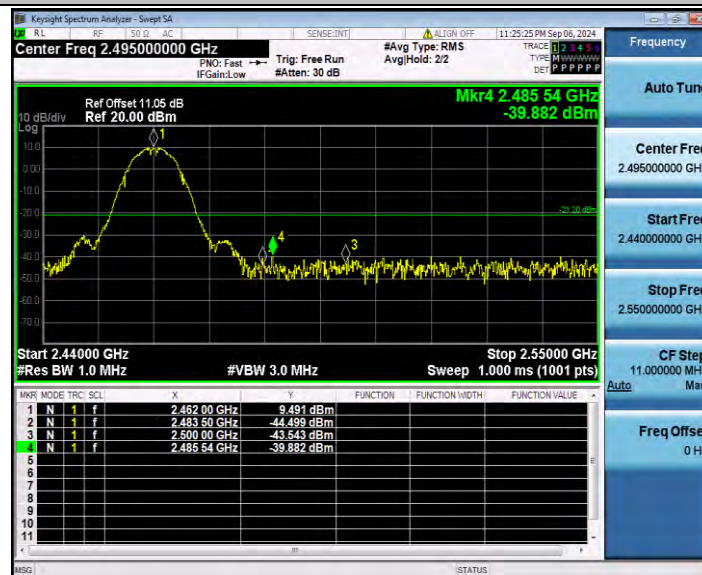
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

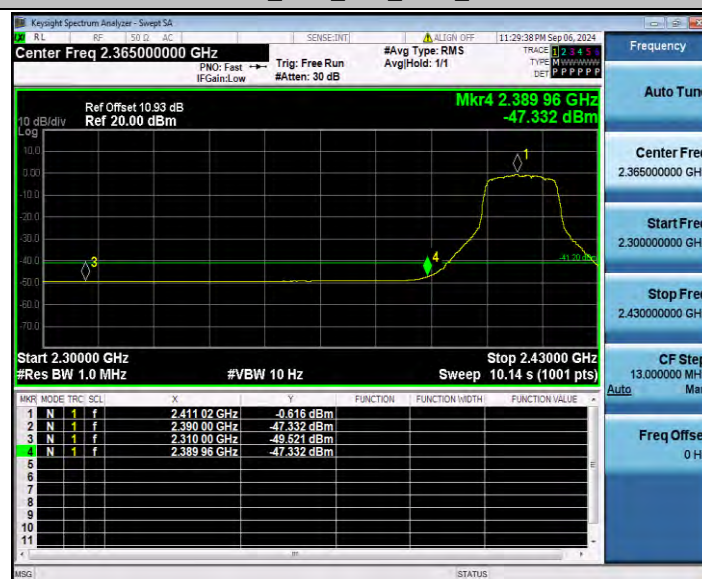




11B_Ant1_High_2462_Peak



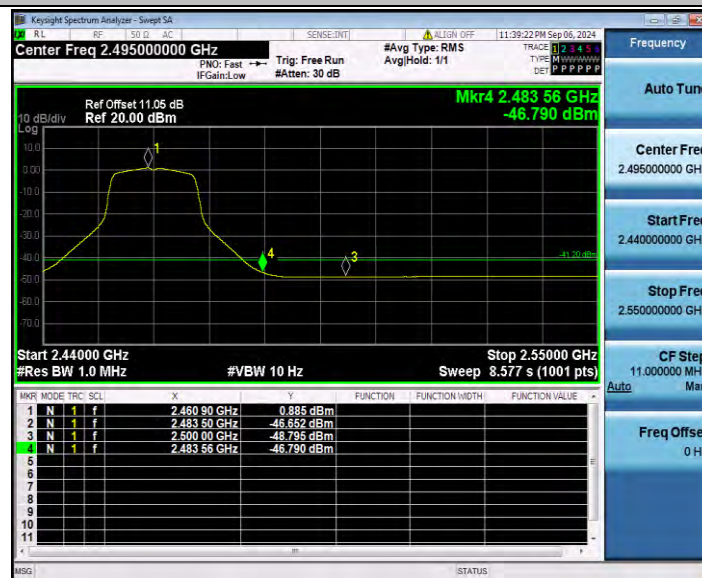
11G_Ant1_Low_2412_AV



11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV



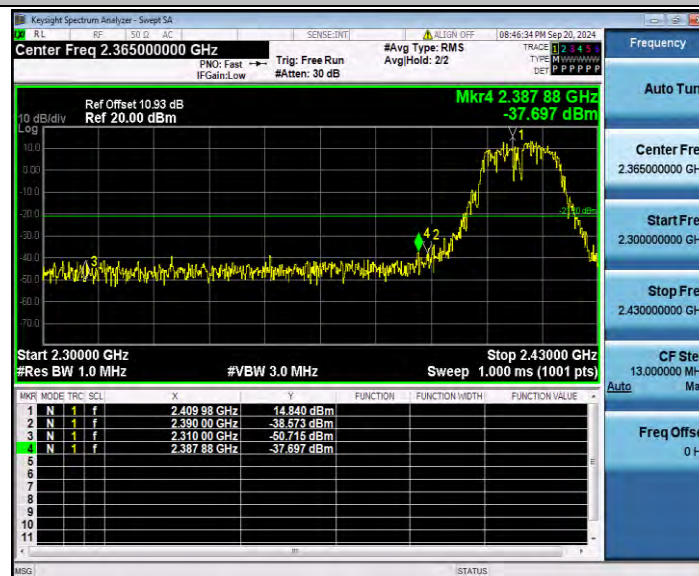
11G_Ant1_High_2462_Peak



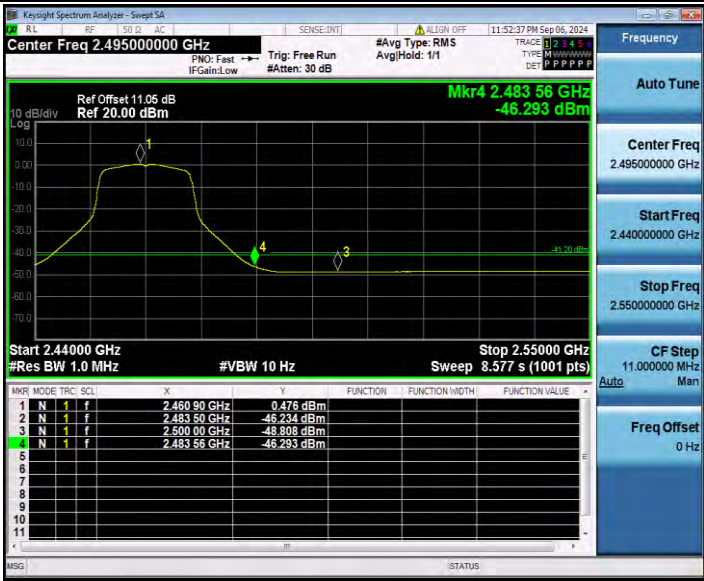
11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV

KeySight Spectrum Analyzer - Sweep SA

RL 50.0 AC SENSE[INT] ALIGN OFF 03:07:45 PM Sep 05, 2024

Center Freq 2.365000000 GHz

Trig: Free Run #Atten: 30 dB #Avg Type: RMS Avg/Hold: 2/2

Trace 1 2 3 4 5
Type M W W W W W W W
Def P P P P P P P

Ref Offset 10.93 dB
Ref 20.00 dBm

Mkr4 2.341 86 GHz
-40.633 dBm

10 dB/div

Log

Start 2.30000 GHz Stop 2.43000 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)

Mkr	Mode	Trc	SCL	X	Y	Function	Function Width	Function Value
1	N	1	f	2.417 39 GHz	-4.053 dBm			
2	N	1	f	2.390 00 GHz	-48.385 dBm			
3	N	1	f	2.310 00 GHz	-48.307 dBm			
4	N	1	f	2.341 86 GHz	-40.633 dBm			
5								
6								
7								
8								
9								
10								
11								

MSO STATUS

Frequency

Auto Tune

Center Freq
2.365000000 GHz

Start Freq
2.300000000 GHz

Stop Freq
2.430000000 GHz

CF Step
13.000000 MHz
Man

Auto

Freq Offset
0 Hz

Keysight Spectrum Analyzer - Sweep SA

Center Freq 2.495000000 GHz

Ref Offset 11.05 dB
Ref 20.00 dBm

Mkr4 2.483 56 GHz
-47.890 dBm

Start 2.44000 GHz
#Res BW 1.0 MHz

Stop 2.55000 GHz
Sweep 8.577 s (1001 pts)

#VBW 10 Hz

Mkr	Mode	Trc	SCL	X	Y	Function	Function Width	Function Value
1	N	1	f	2.450 01 GHz	-4.812 dBm			
2	N	1	f	2.483 50 GHz	-47.895 dBm			
3	N	1	f	2.500 00 GHz	-48.837 dBm			
4	N	1	f	2.483 56 GHz	-47.890 dBm			

Frequency

Auto Tune

Center Freq
2.495000000 GHz

Start Freq
2.440000000 GHz

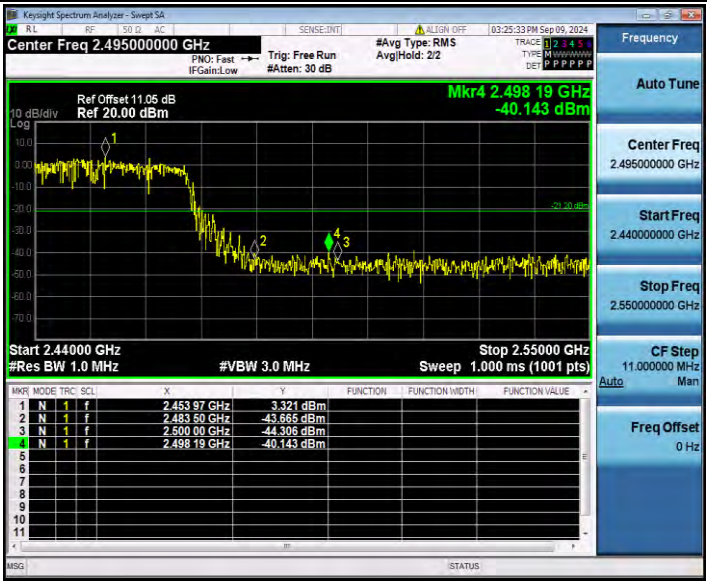
Stop Freq
2.550000000 GHz

CF Step
11.000000 MHz

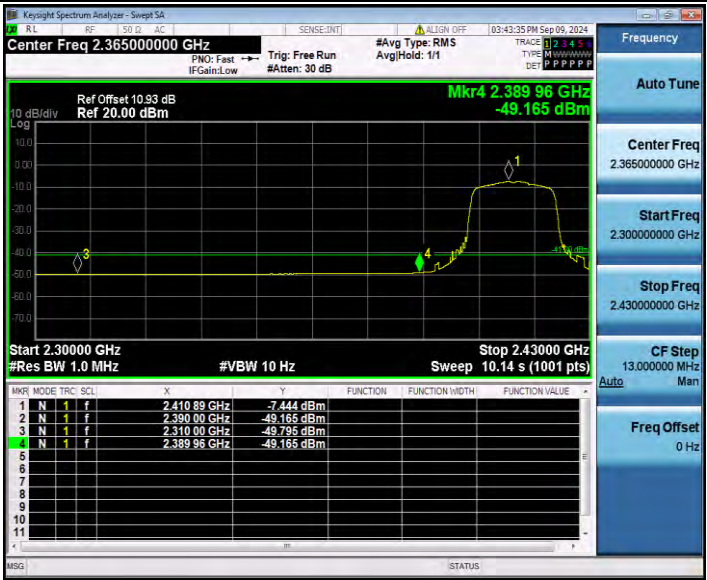
Auto

Freq Offset
0 Hz

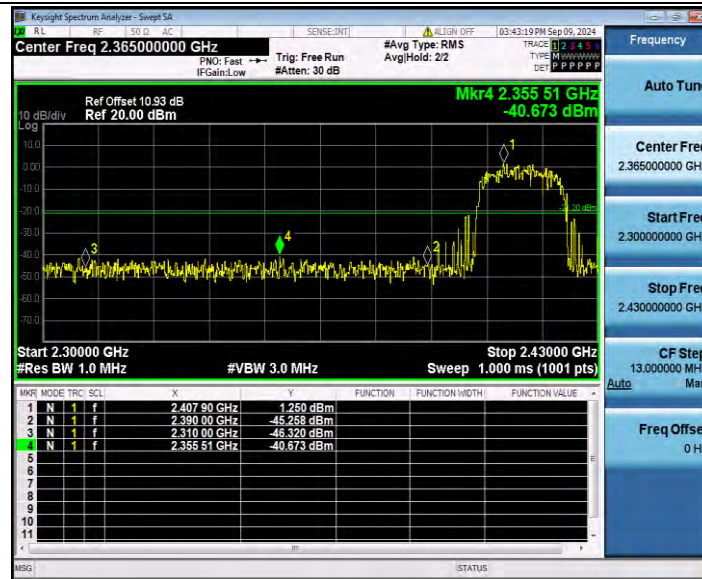
11N40SISO_Ant1_High_2452_Peak



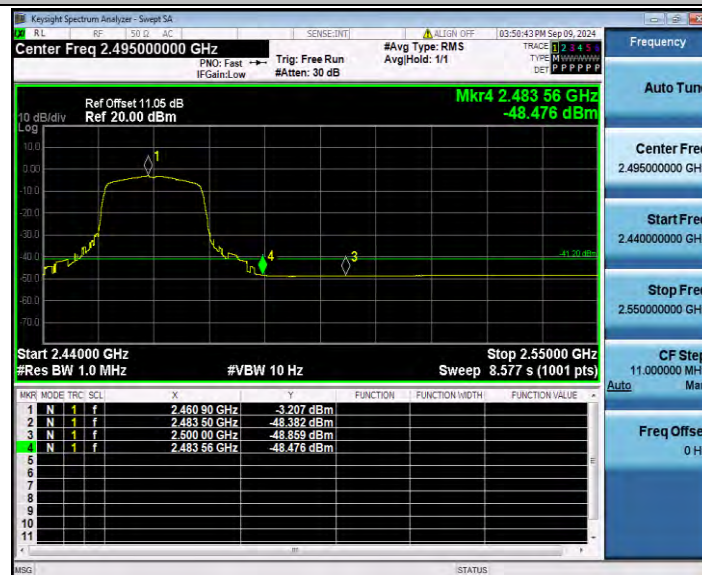
11AX20SISO_Ant1_Low_2412_AV



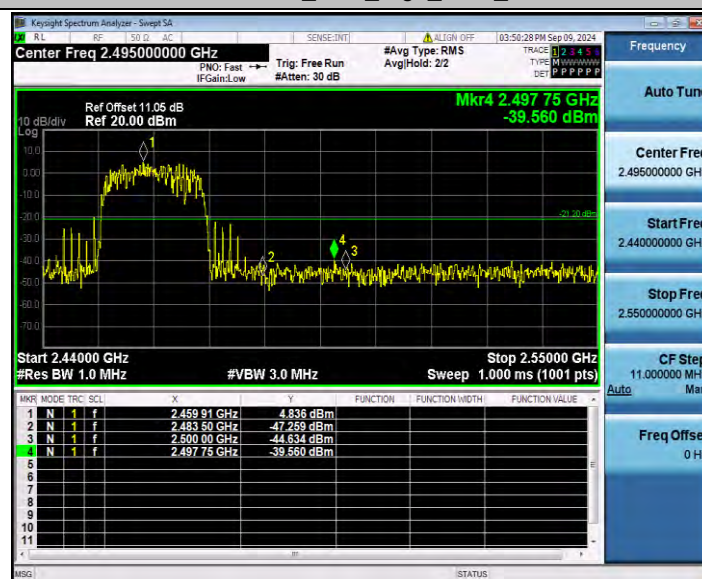
11AX20SISO_Ant1_Low_2412_Peak



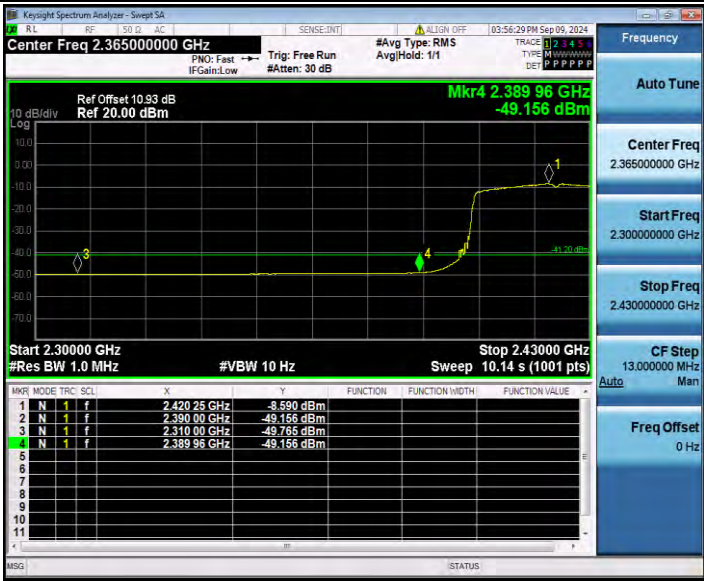
11AX20SISO_Ant1_High_2462_AV



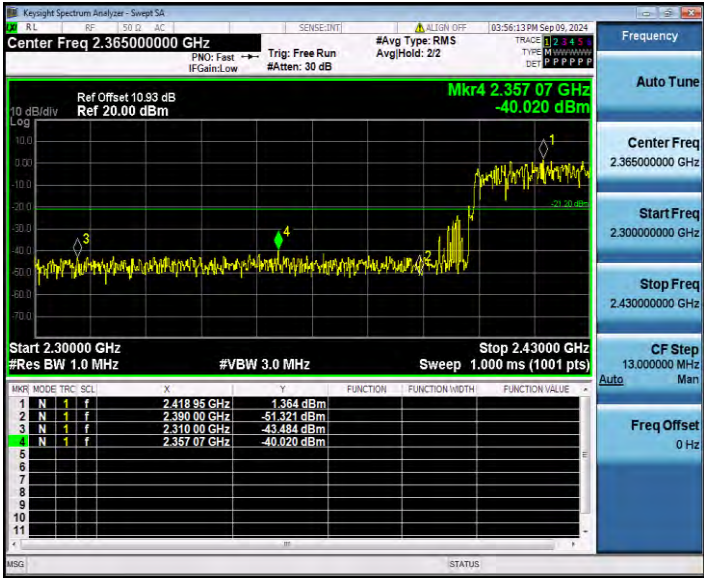
11AX20SISO_Ant1_High_2462_Peak



11AX40SISO_Ant1_Low_2422_AV



11AX40SISO_Ant1_Low_2422_Peak



11AX40SISO_Ant1_High_2452_AV

