

Case No. : <u>GTS20250312018-1</u>	
Ambient Condition: <u>22</u> °C, <u>53</u> %RH,	
Test Date: <u>2025.3.14</u>	Test Engineer: <u>Evan ouyang</u>

Appendix A.1: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.520	2407.480	2416.000	0.5	PASS
		2437	8.560	2432.960	2441.520	0.5	PASS
		2462	9.560	2457.440	2467.000	0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	0.5	PASS
		2437	16.280	2428.840	2445.120	0.5	PASS
		2462	16.080	2453.840	2469.920	0.5	PASS
11N20SISO	Ant1	2412	16.960	2403.200	2420.160	0.5	PASS
		2437	16.200	2428.520	2444.720	0.5	PASS
		2462	16.920	2453.200	2470.120	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.400	2439.520	0.5	PASS
		2437	33.760	2419.480	2453.240	0.5	PASS
		2452	35.120	2434.400	2469.520	0.5	PASS

Test Graphs

11B_Ant1_2412



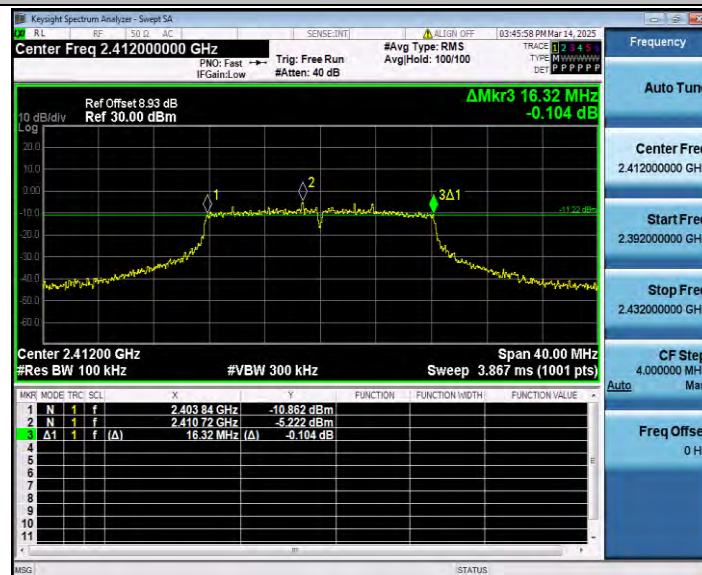
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



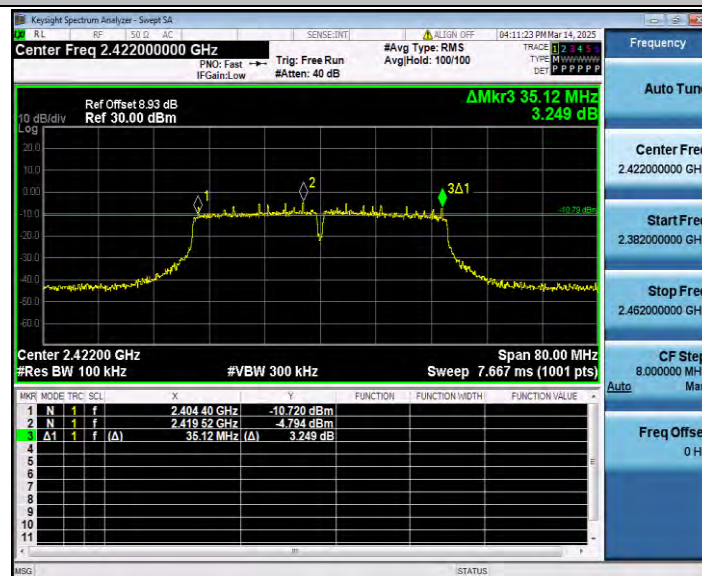
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



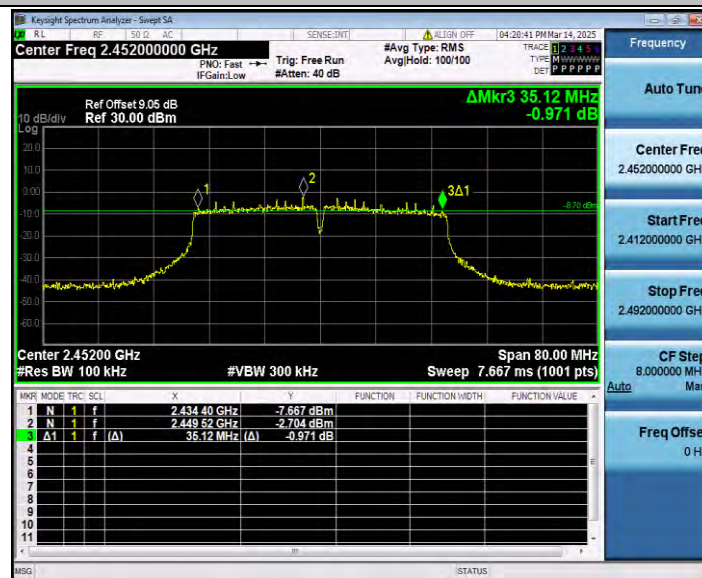
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.389	2405.2922	2418.6812	---	---
		2437	13.171	2430.4355	2443.6065	---	---
		2462	13.187	2455.4041	2468.5911	---	---
11G	Ant1	2412	17.380	2403.2283	2420.6083	---	---
		2437	17.416	2428.1837	2445.5997	---	---
		2462	17.411	2453.1713	2470.5823	---	---
11N20SISO	Ant1	2412	18.464	2402.7295	2421.1935	---	---
		2437	18.448	2427.7850	2446.2330	---	---
		2462	18.398	2452.7434	2471.1414	---	---
11N40SISO	Ant1	2422	36.745	2403.6133	2440.3583	---	---
		2437	36.730	2418.5638	2455.2938	---	---
		2452	36.566	2433.6597	2470.2257	---	---

Test Graphs

11B_Ant1_2412



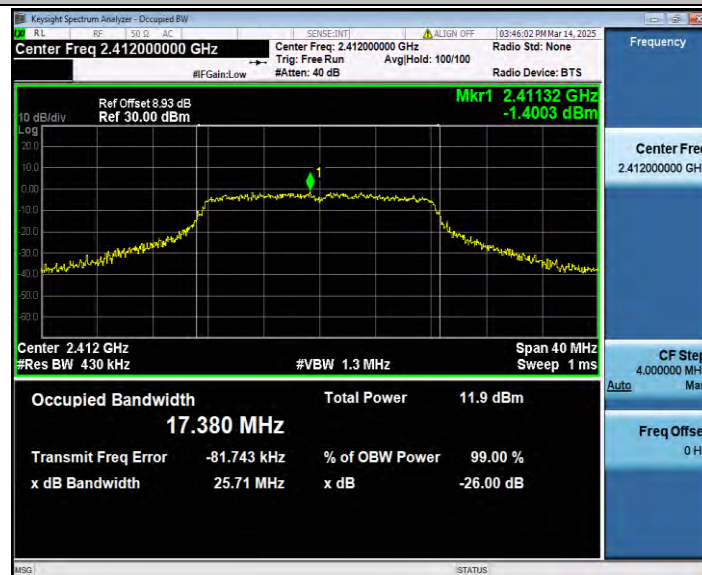
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



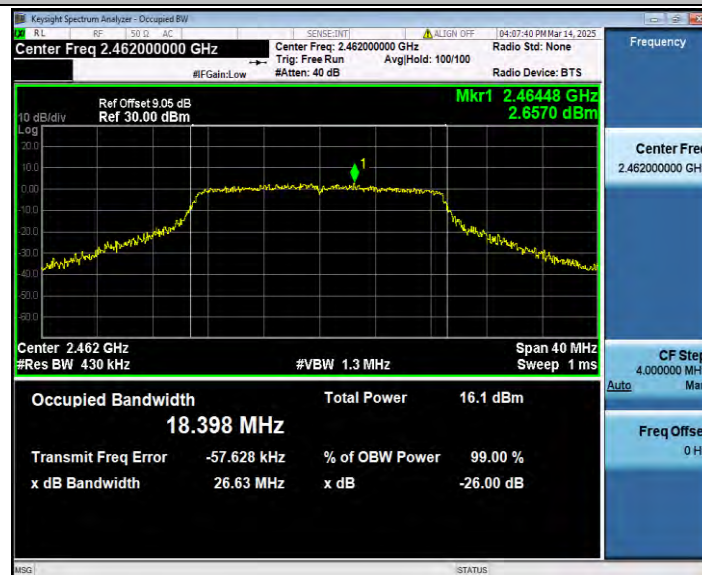
11N20SISO_Ant1_2412



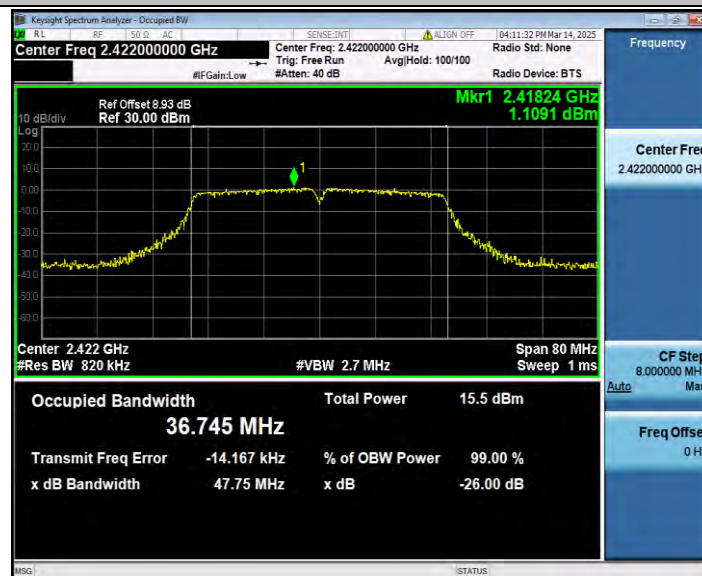
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



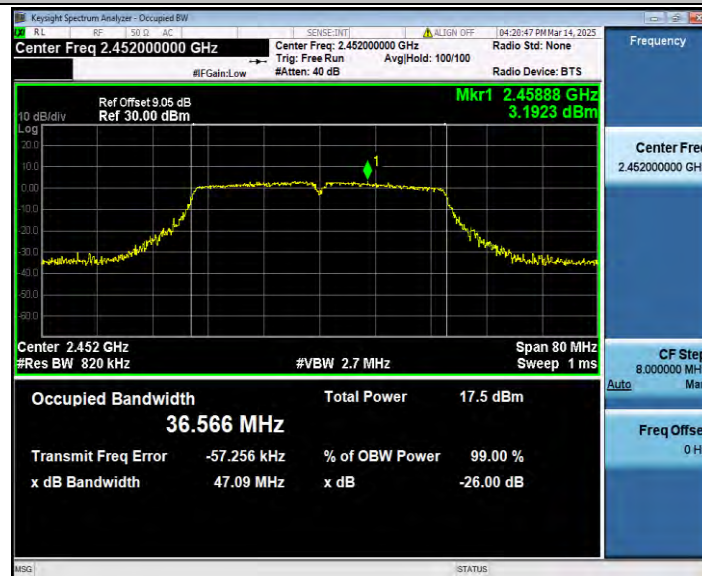
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix A.3: Maximum conducted output power

Test Mode	Antenna	Frequency [MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	18.01	≤30.00	PASS
		2437	14.01	≤30.00	PASS
		2462	13.51	≤30.00	PASS
11G	Ant1	2412	13.12	≤30.00	PASS
		2437	15.17	≤30.00	PASS
		2462	15.20	≤30.00	PASS
11N20SI SO	Ant1	2412	14.95	≤30.00	PASS
		2437	17.21	≤30.00	PASS
		2462	17.21	≤30.00	PASS
11N40SI SO	Ant1	2422	15.86	≤30.00	PASS
		2437	18.13	≤30.00	PASS
		2452	17.85	≤30.00	PASS

Appendix A.4: Maximum power spectral density

Test Result

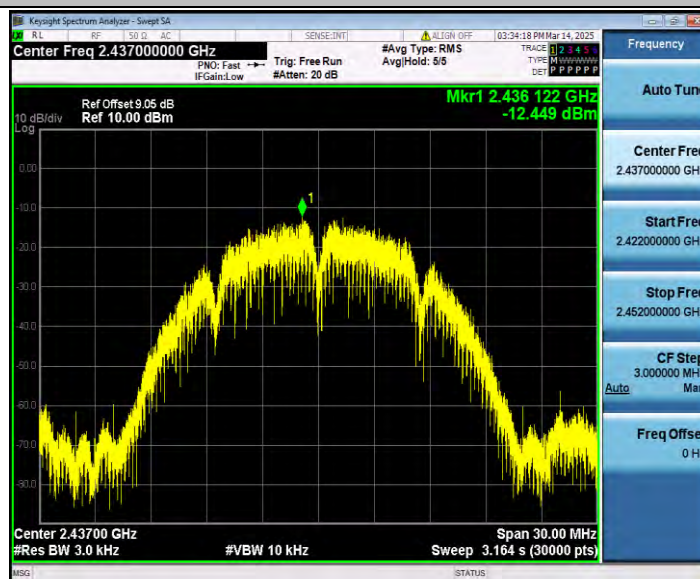
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.82	≤8.00	PASS
		2437	-12.45	≤8.00	PASS
		2462	-12.50	≤8.00	PASS
11G	Ant1	2412	-18.94	≤8.00	PASS
		2437	-17.11	≤8.00	PASS
		2462	-17.82	≤8.00	PASS
11N20SISO	Ant1	2412	-17.05	≤8.00	PASS
		2437	-15.45	≤8.00	PASS
		2462	-14.92	≤8.00	PASS
11N40SISO	Ant1	2422	-19.54	≤8.00	PASS
		2437	-16.96	≤8.00	PASS
		2452	-16.43	≤8.00	PASS

Test Graphs

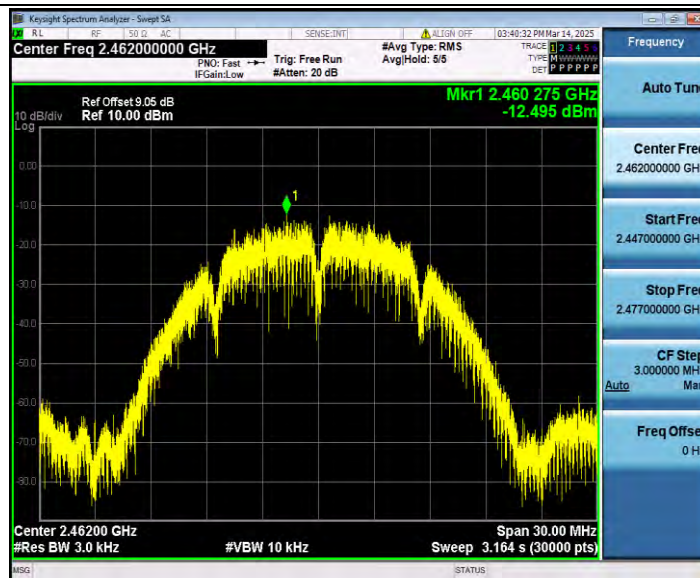
11B_Ant1_2412



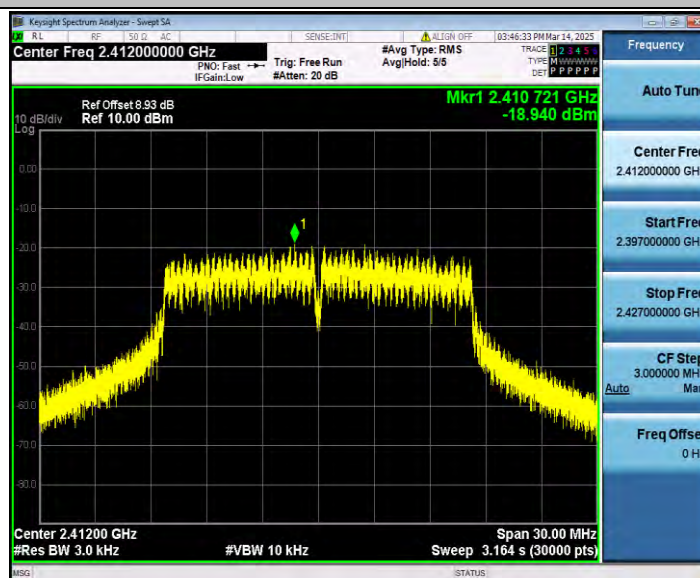
11B_Ant1_2437



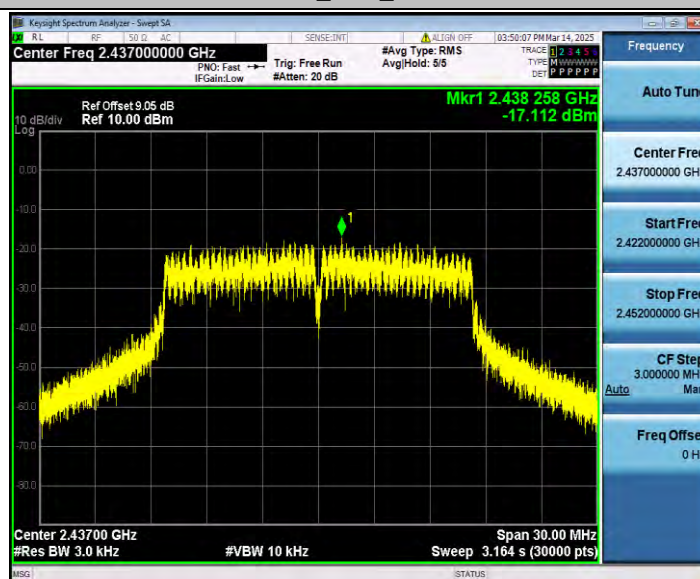
11B_Ant1_2462



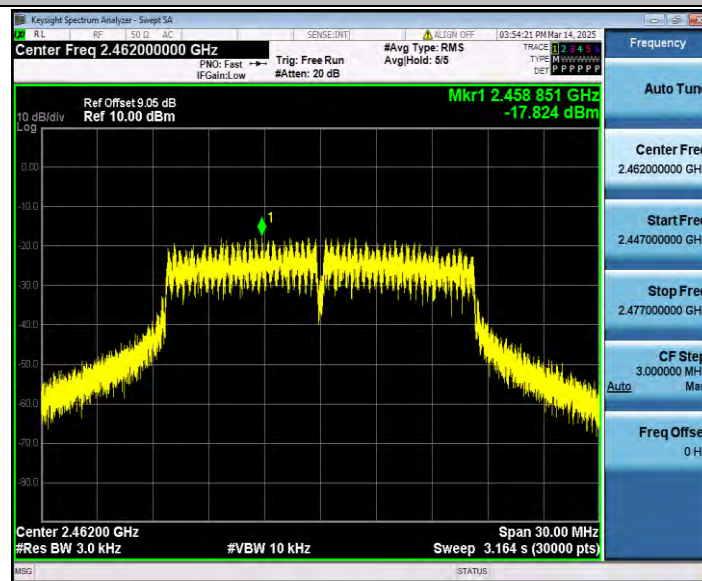
11G_Ant1_2412



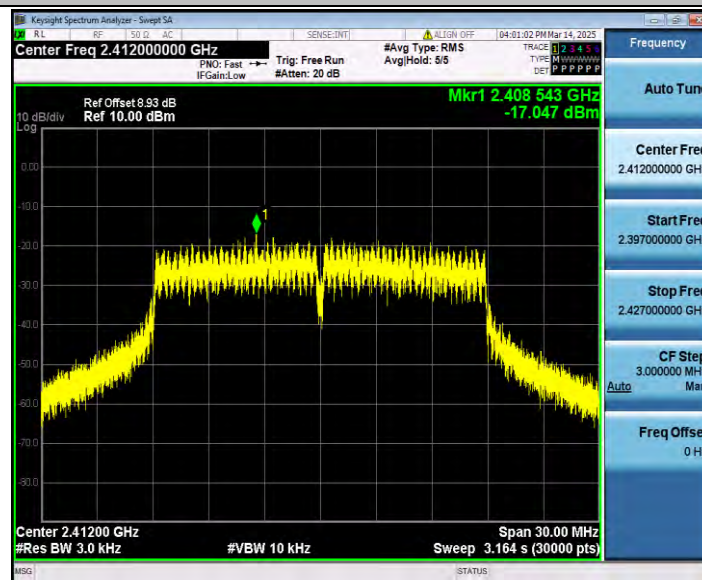
11G_Ant1_2437



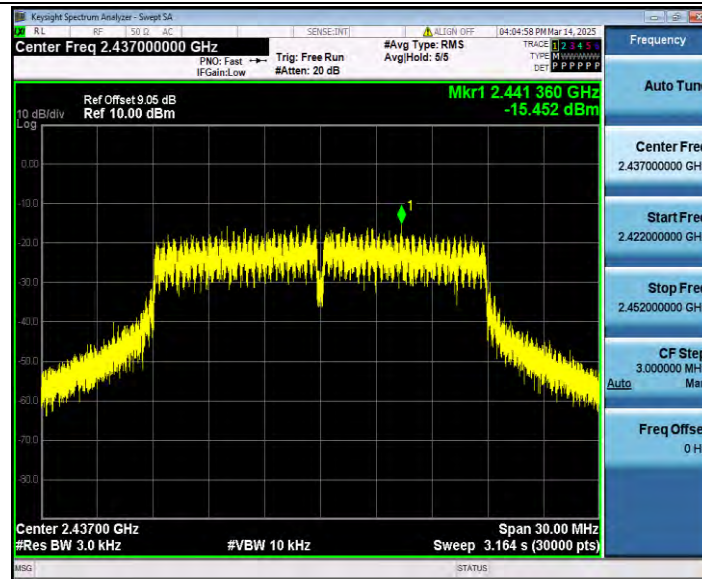
11G_Ant1_2462



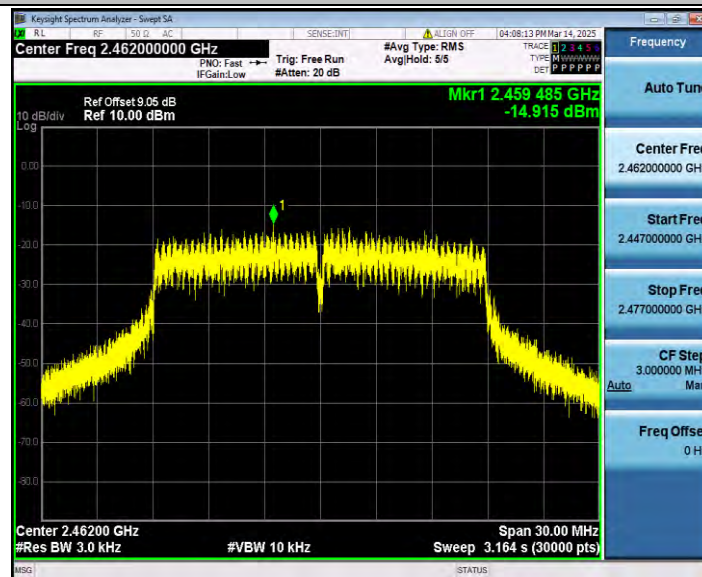
11N20SISO_Ant1_2412



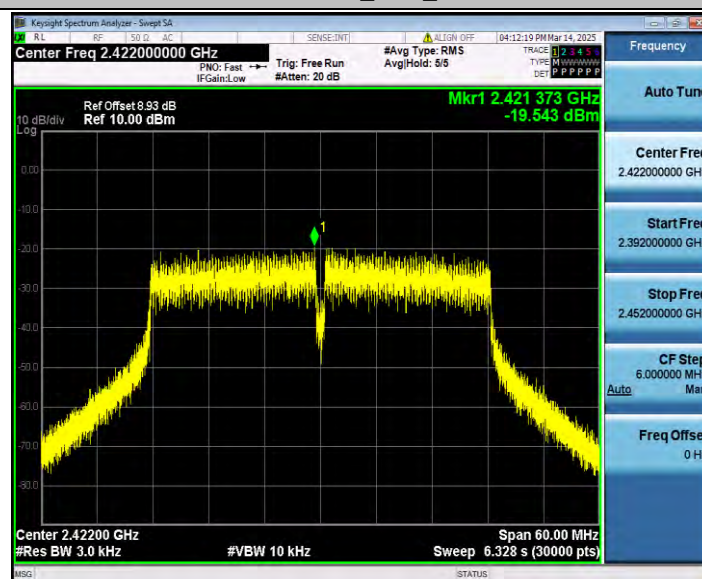
11N20SISO_Ant1_2437



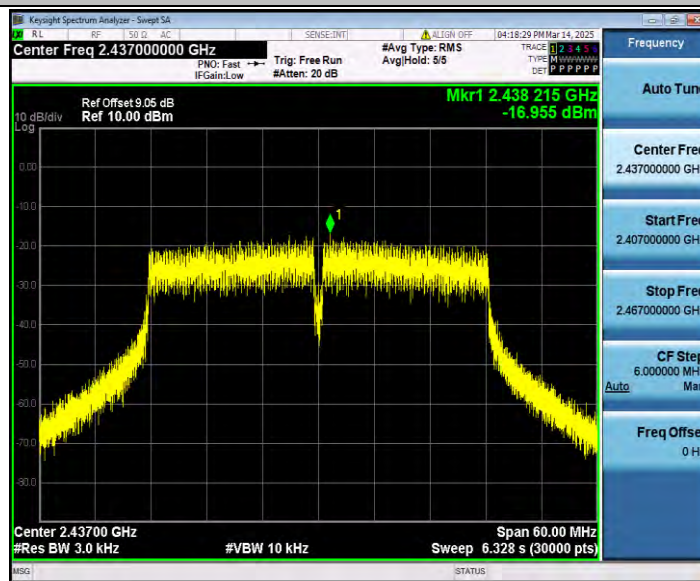
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix A.5: Band edge measurements

Test Result

TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.36	-35.34	≤-13.65	PASS
		High	2462	2.39	-48.84	≤-17.61	PASS
11G	Ant1	Low	2412	-4.72	-33.82	≤-24.72	PASS
		High	2462	-3.06	-49.13	≤-23.06	PASS
11N20SISO	Ant1	Low	2412	-3.21	-31.66	≤-23.21	PASS
		High	2462	-0.98	-48.56	≤-20.98	PASS
11N40SISO	Ant1	Low	2422	-4.96	-34.85	≤-24.96	PASS
		High	2452	-2.95	-46.81	≤-22.95	PASS

Test Graphs



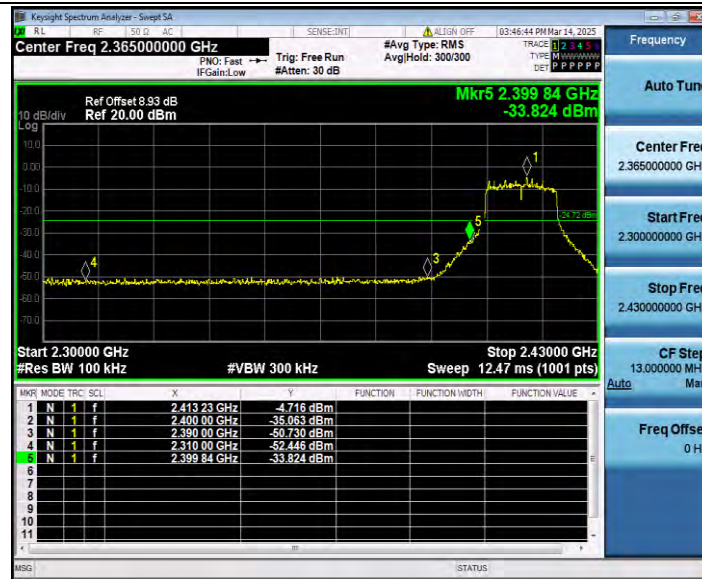
11B_Ant1_High_2462

Frequency

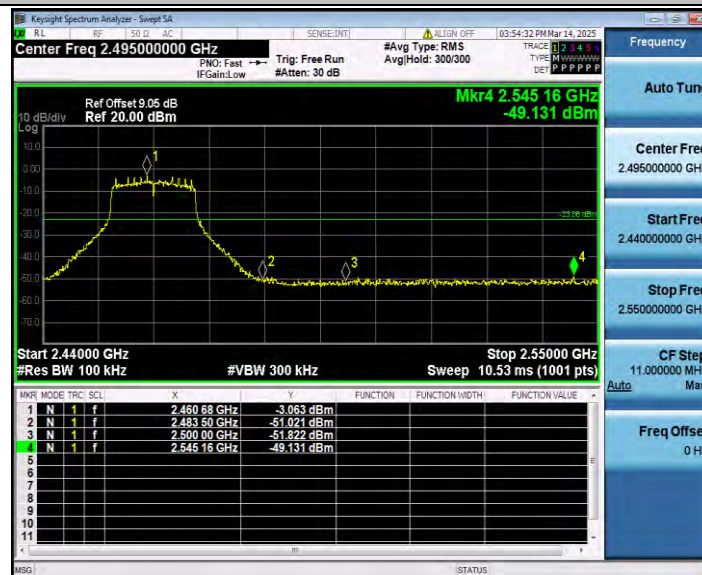
Auto Tune

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

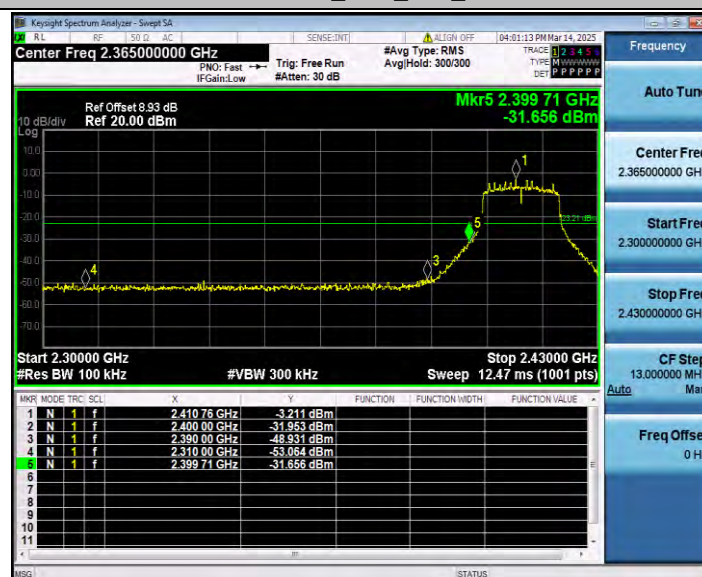
11G_Ant1_Low_2412



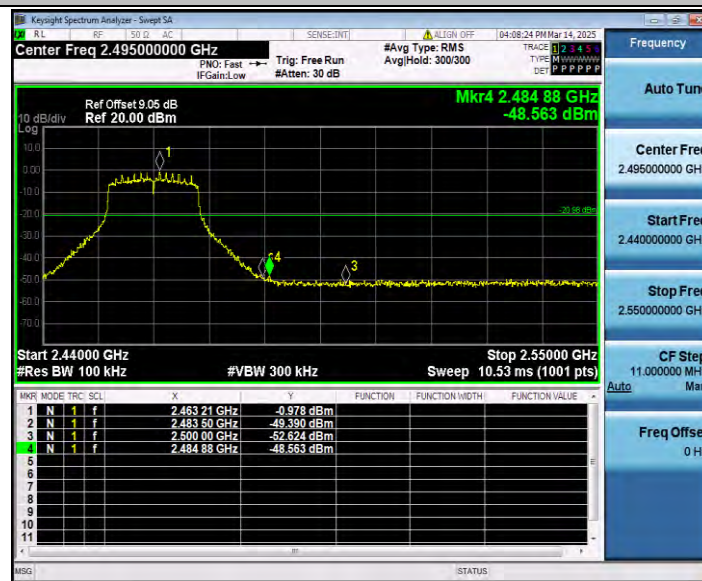
11G_Ant1_High_2462



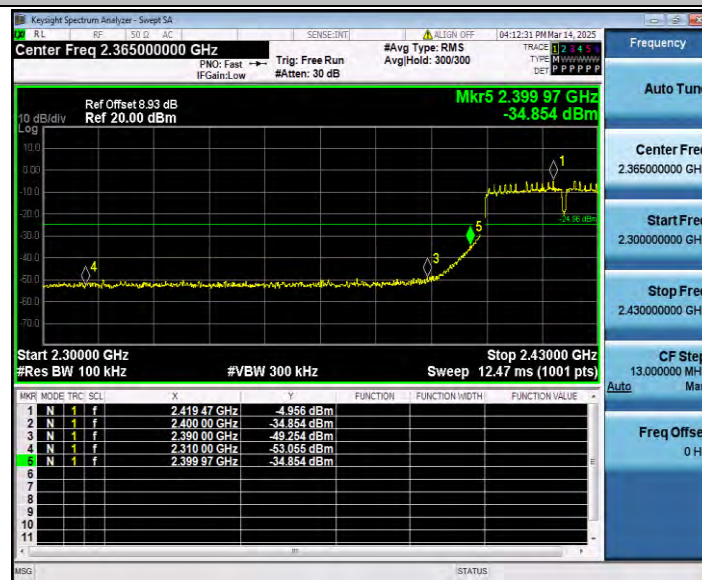
11N20SISO_Ant1_Low_2412



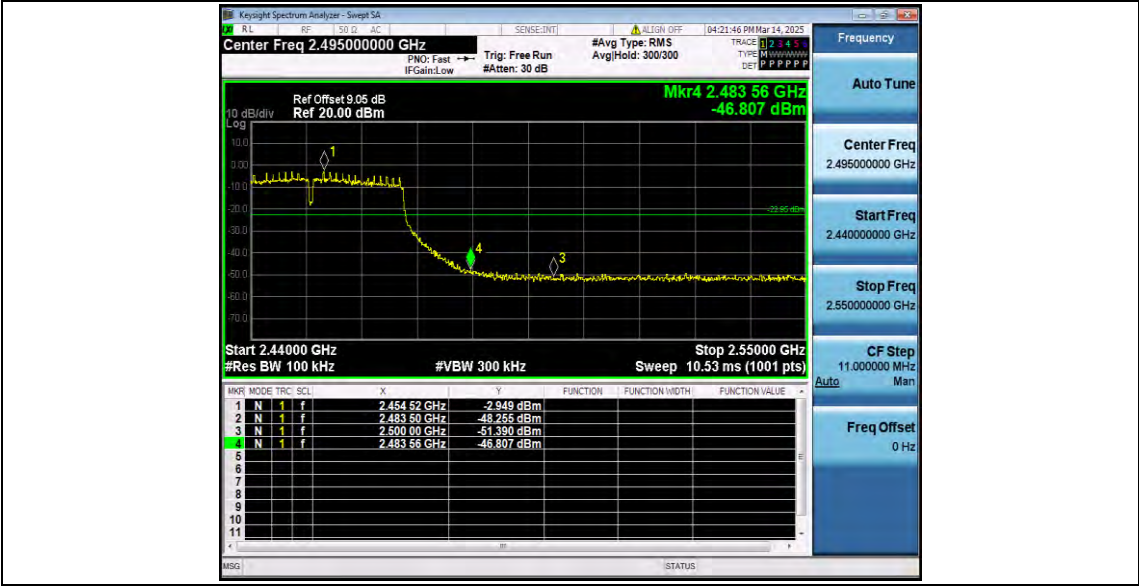
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452

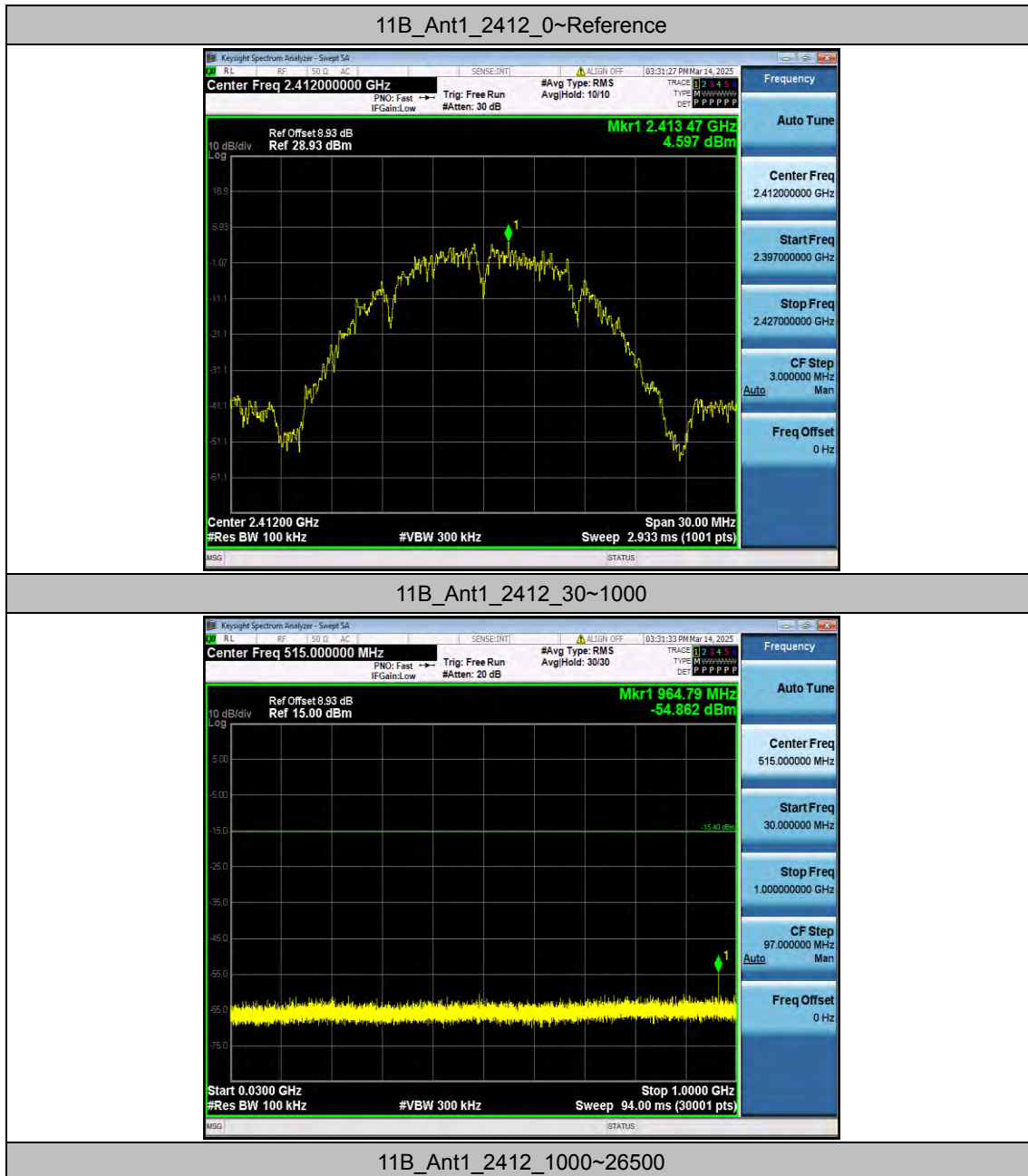


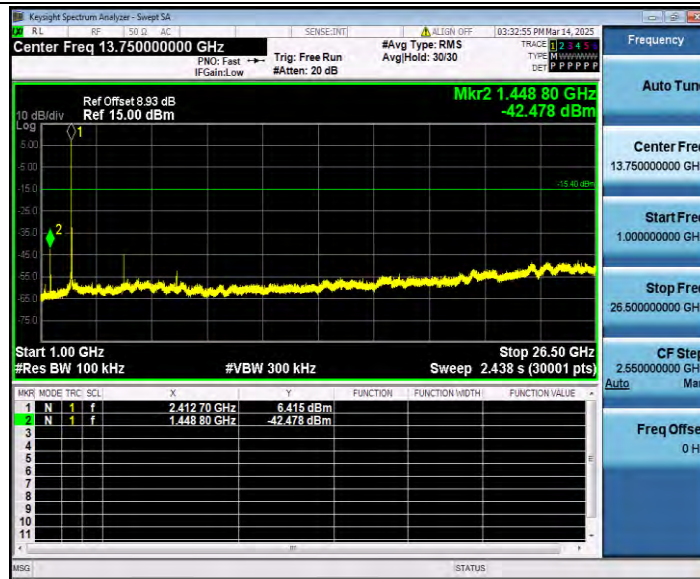
Appendix A.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.60	4.60	---	PASS
			30~1000	4.60	-54.86	≤ -15.4	PASS
			1000~26500	4.60	-42.48	≤ -15.4	PASS
		2437	Reference	0.91	0.91	---	PASS
			30~1000	0.91	-60.06	≤ -19.09	PASS
			1000~26500	0.91	-46.96	≤ -19.09	PASS
		2462	Reference	-0.54	-0.54	---	PASS
			30~1000	-0.54	-60.58	≤ -20.54	PASS
			1000~26500	-0.54	-47.69	≤ -20.54	PASS
11G	Ant1	2412	Reference	-8.11	-8.11	---	PASS
			30~1000	-8.11	-60.76	≤ -28.11	PASS
			1000~26500	-8.11	-47.38	≤ -28.11	PASS
		2437	Reference	-3.81	-3.81	---	PASS
			30~1000	-3.81	-60.6	≤ -23.81	PASS
			1000~26500	-3.81	-47.91	≤ -23.81	PASS
		2462	Reference	-5.02	-5.02	---	PASS
			30~1000	-5.02	-60.92	≤ -25.02	PASS
			1000~26500	-5.02	-47.84	≤ -25.02	PASS
11N20SISO	Ant1	2412	Reference	-4.61	-4.61	---	PASS
			30~1000	-4.61	-60.19	≤ -24.61	PASS
			1000~26500	-4.61	-47.86	≤ -24.61	PASS
		2437	Reference	-4.34	-4.34	---	PASS
			30~1000	-4.34	-60.76	≤ -24.34	PASS
			1000~26500	-4.34	-47.21	≤ -24.34	PASS
		2462	Reference	-4.61	-4.61	---	PASS
			30~1000	-4.61	-60.4	≤ -24.61	PASS
			1000~26500	-4.61	-47.79	≤ -24.61	PASS
11N40SISO	Ant1	2422	Reference	-6.36	-6.36	---	PASS
			30~1000	-6.36	-60.59	≤ -26.36	PASS
			1000~26500	-6.36	-48.04	≤ -26.36	PASS
		2437	Reference	-3.04	-3.04	---	PASS
			30~1000	-3.04	-59.92	≤ -23.04	PASS
			1000~26500	-3.04	-47.89	≤ -23.04	PASS
		2452	Reference	-5.54	-5.54	---	PASS
			30~1000	-5.54	-60.04	≤ -25.54	PASS
			1000~26500	-5.54	-47.44	≤ -25.54	PASS

Test Graphs

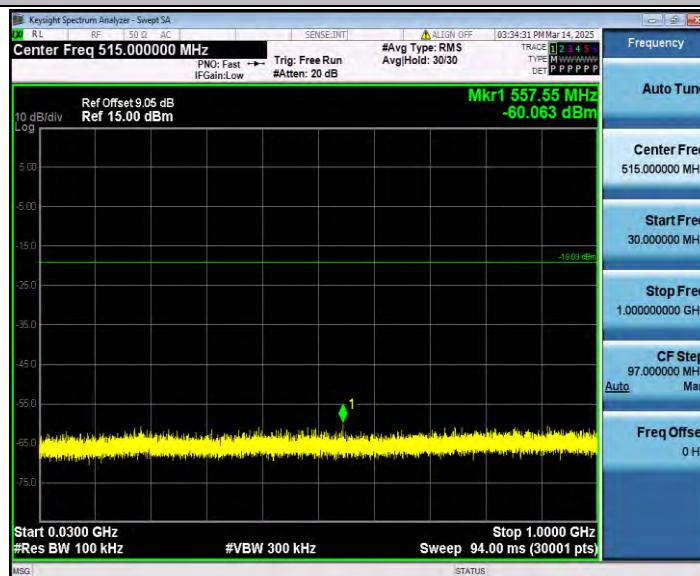




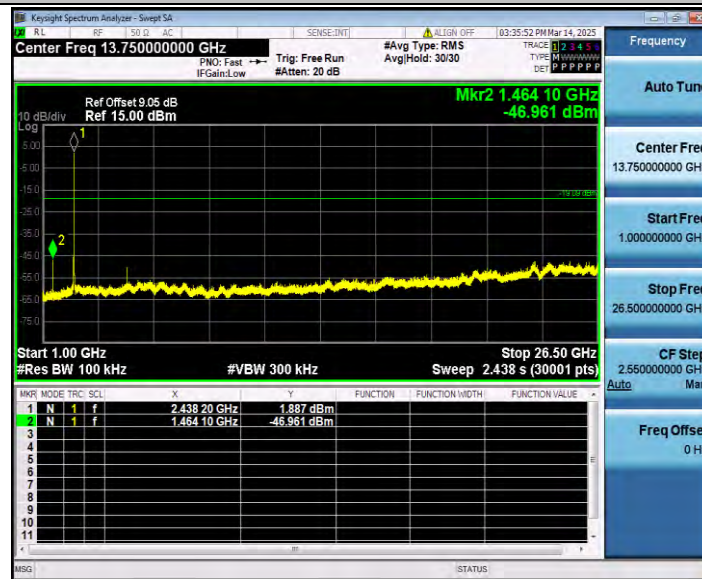
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



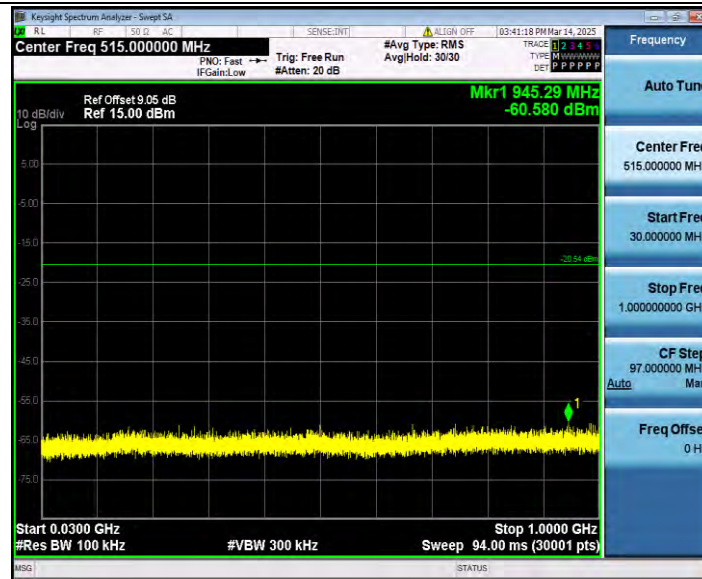
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



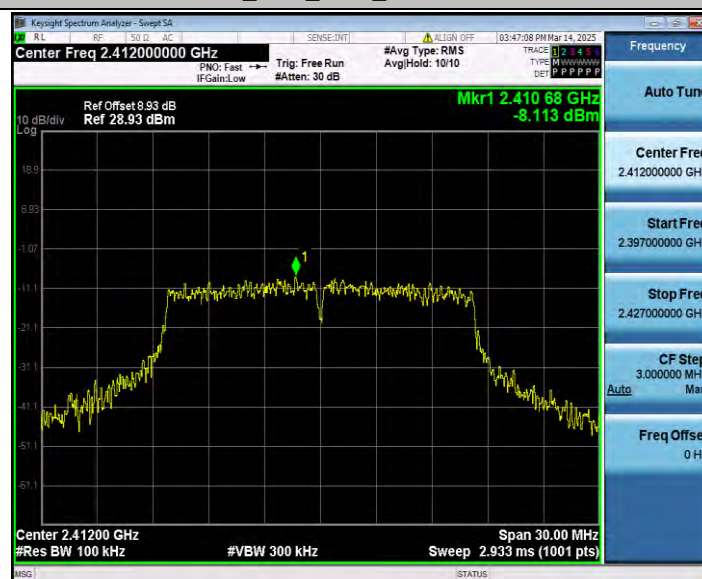
11B_Ant1_2462_30~1000

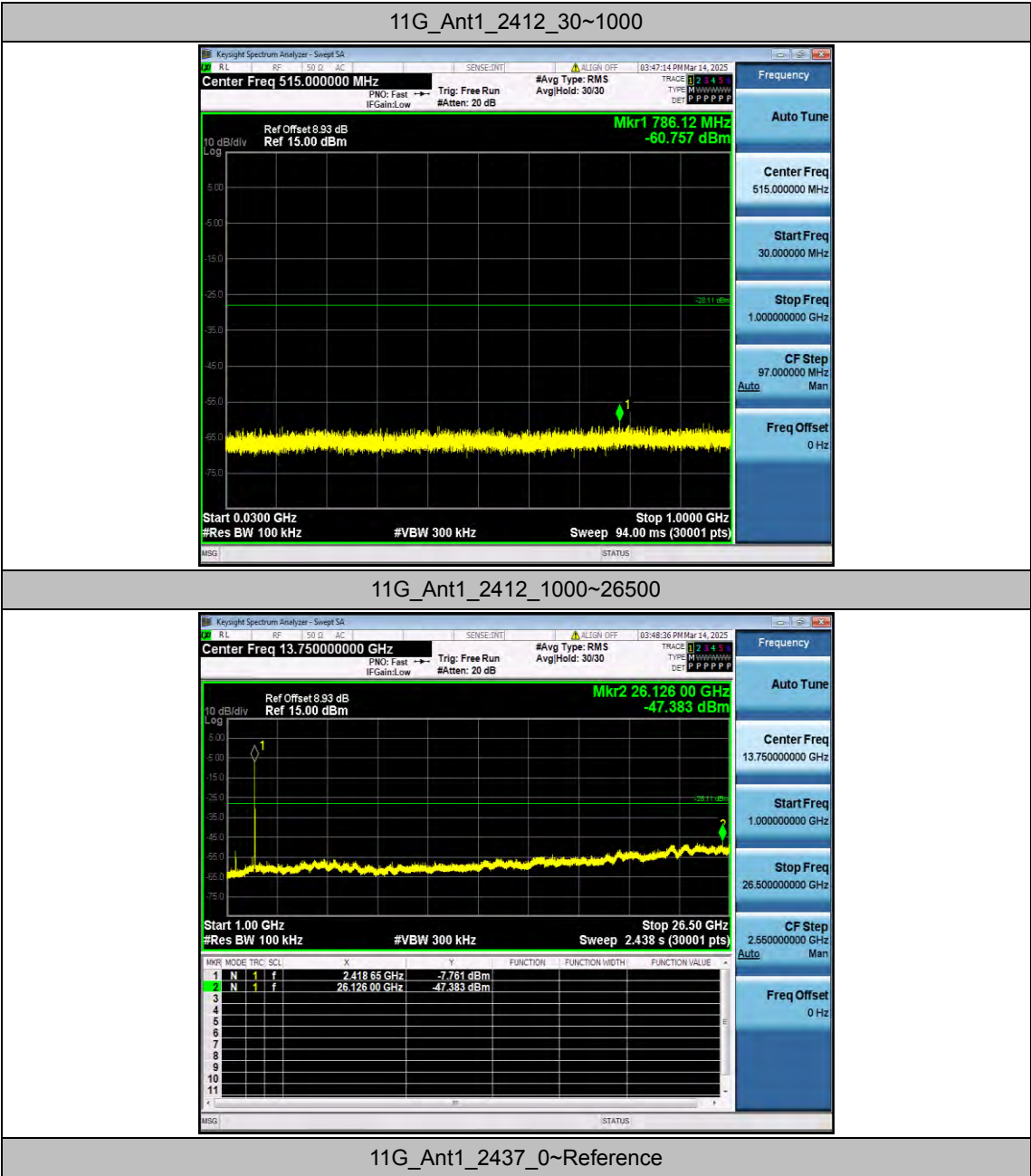


11B_Ant1_2462_1000~26500



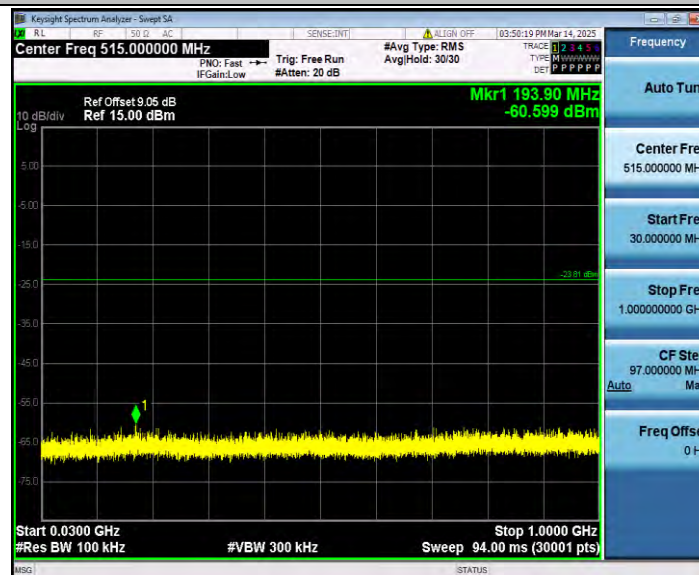
11G_Ant1_2412_0~Reference







11G_Ant1_2437_30~1000



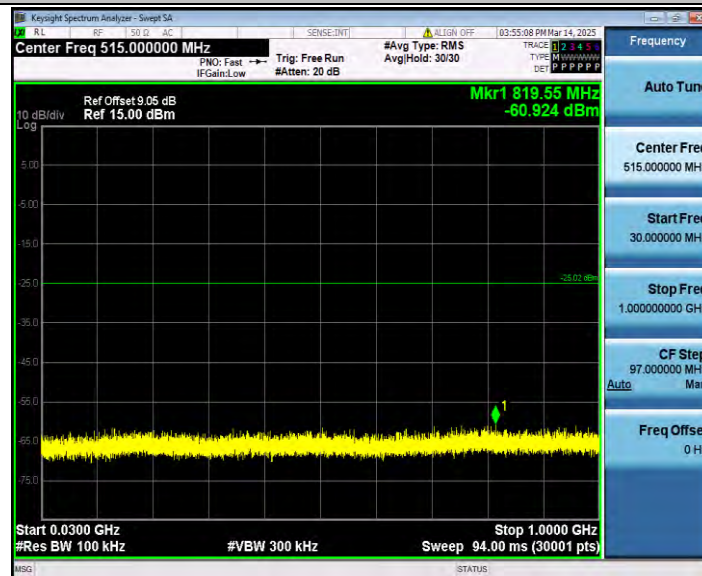
11G_Ant1_2437_1000~26500



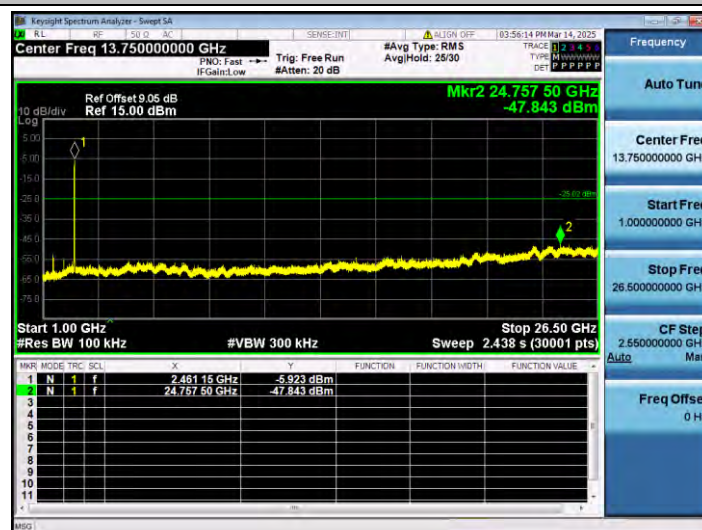
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



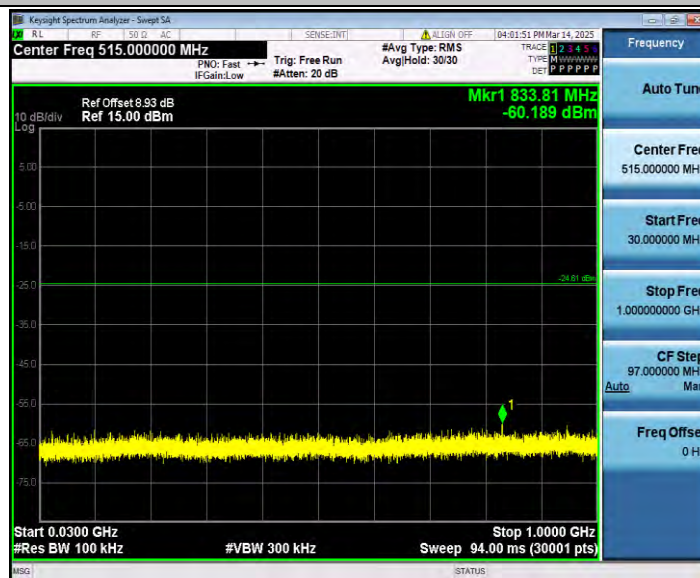
11G_Ant1_2462_1000~26500



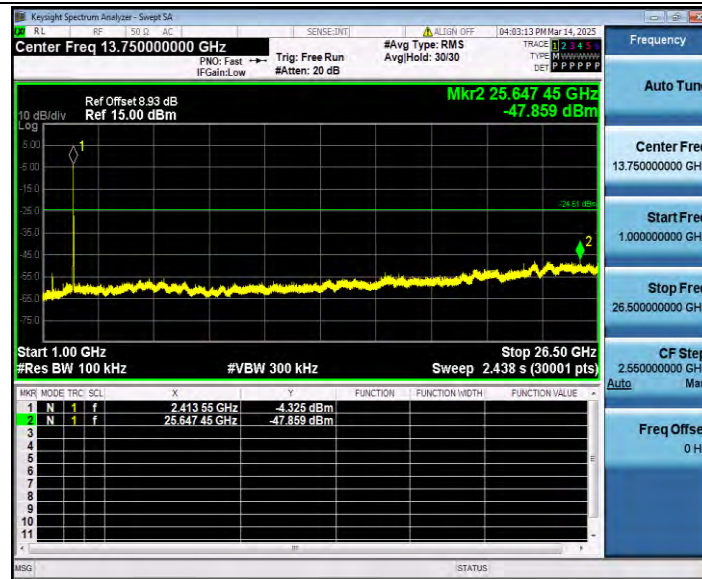
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



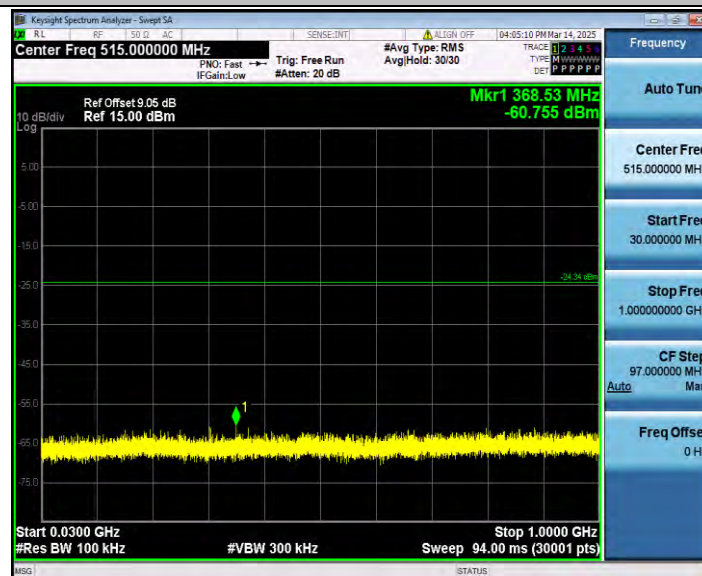
11N20SISO_Ant1_2412_1000~26500

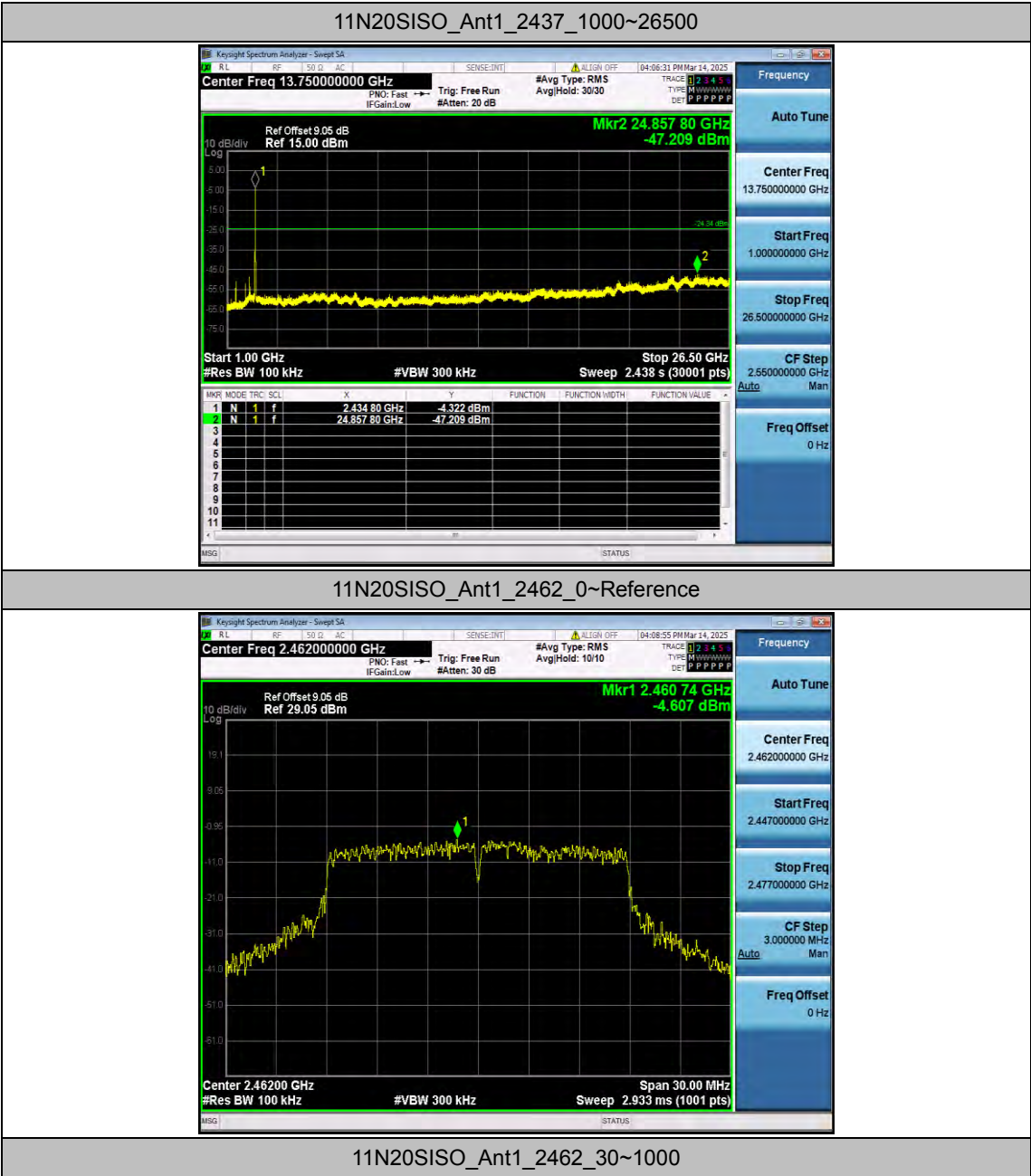


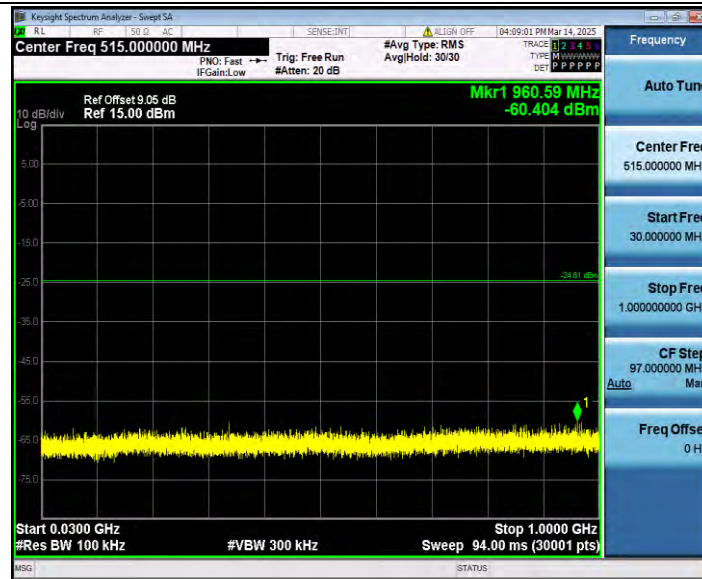
11N20SISO_Ant1_2437_0~Reference



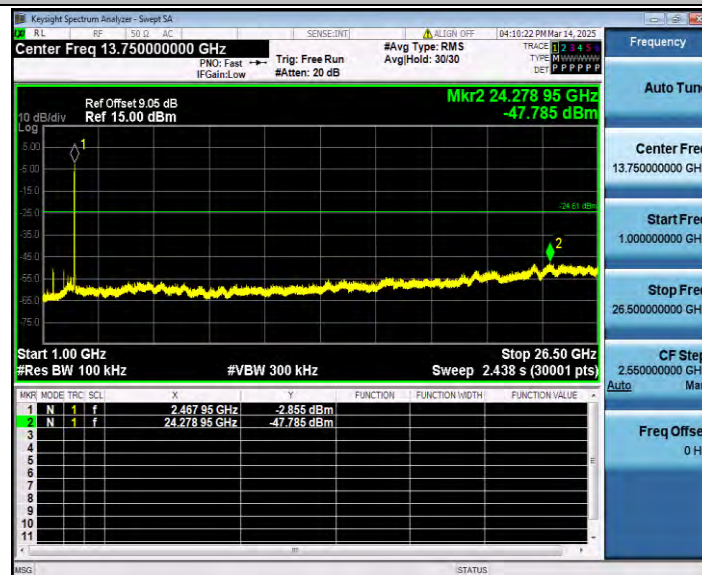
11N20SISO_Ant1_2437_30~1000



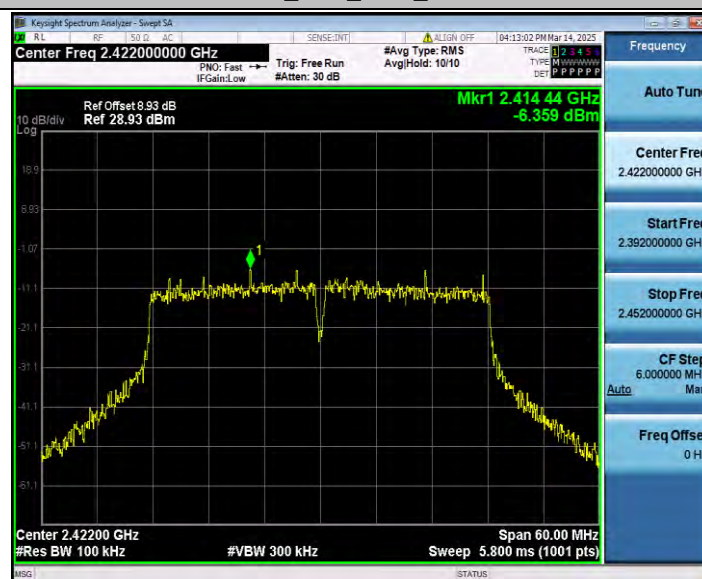


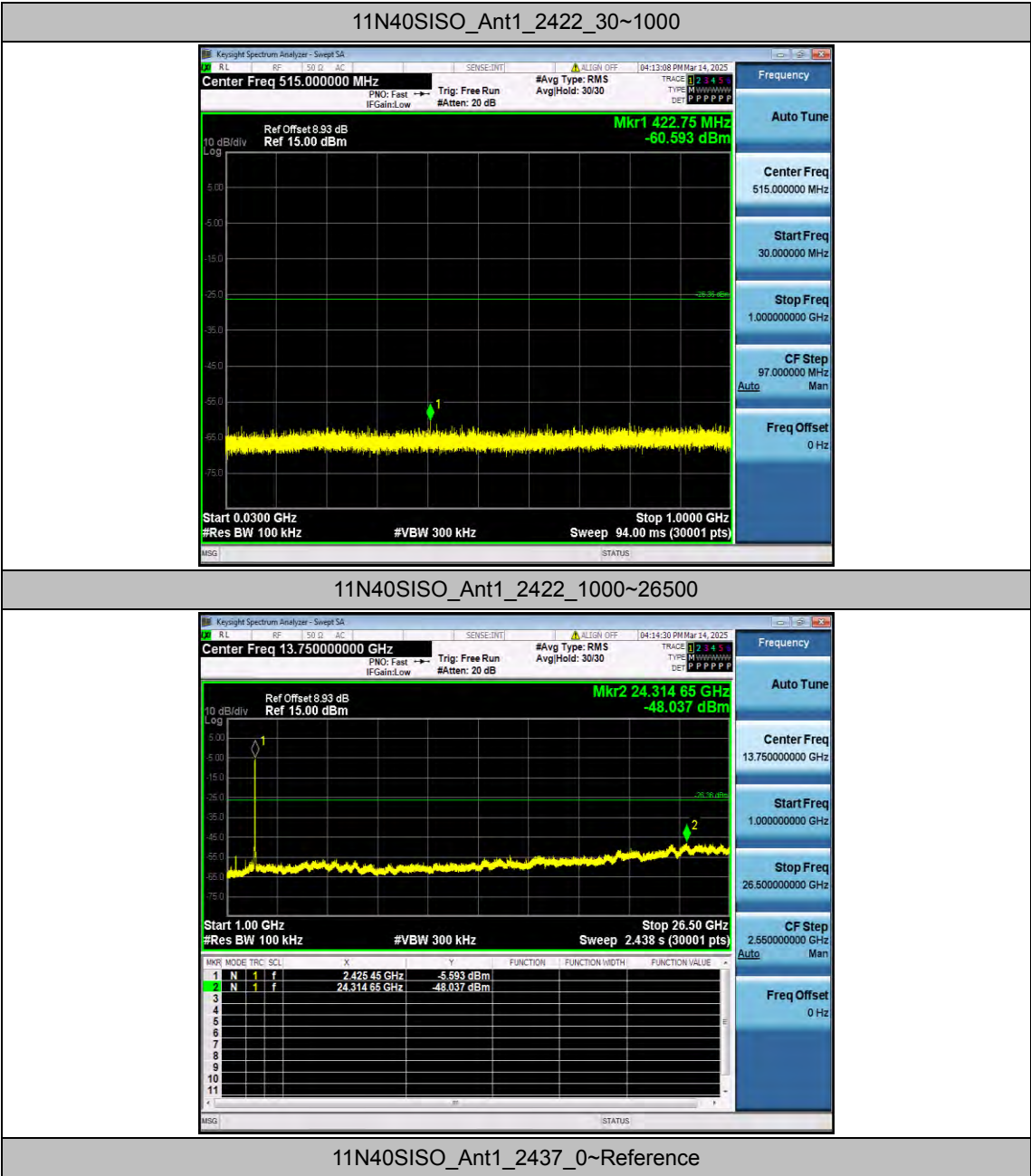


11N20SISO_Ant1_2462_1000~26500



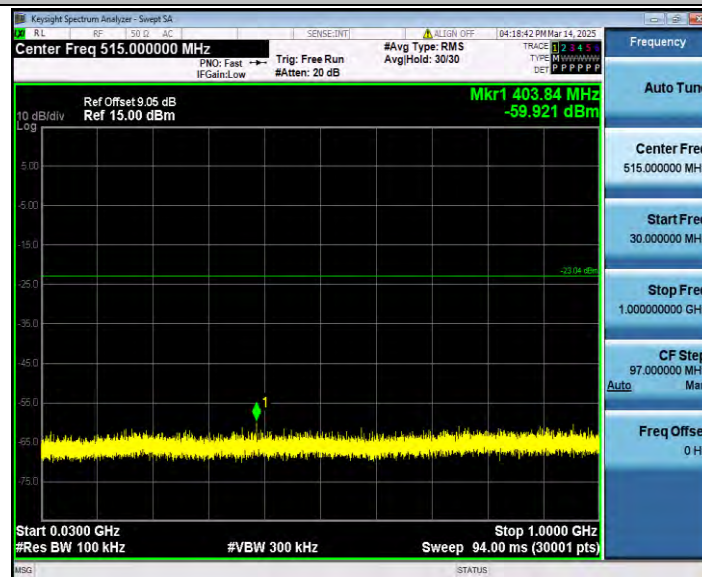
11N40SISO_Ant1_2422_0~Reference







11N40SISO_Ant1_2437_30~1000



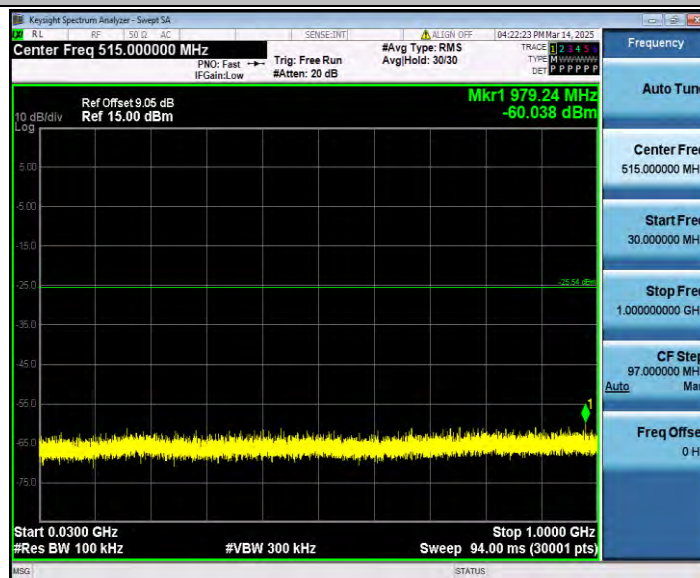
11N40SISO_Ant1_2437_1000~26500



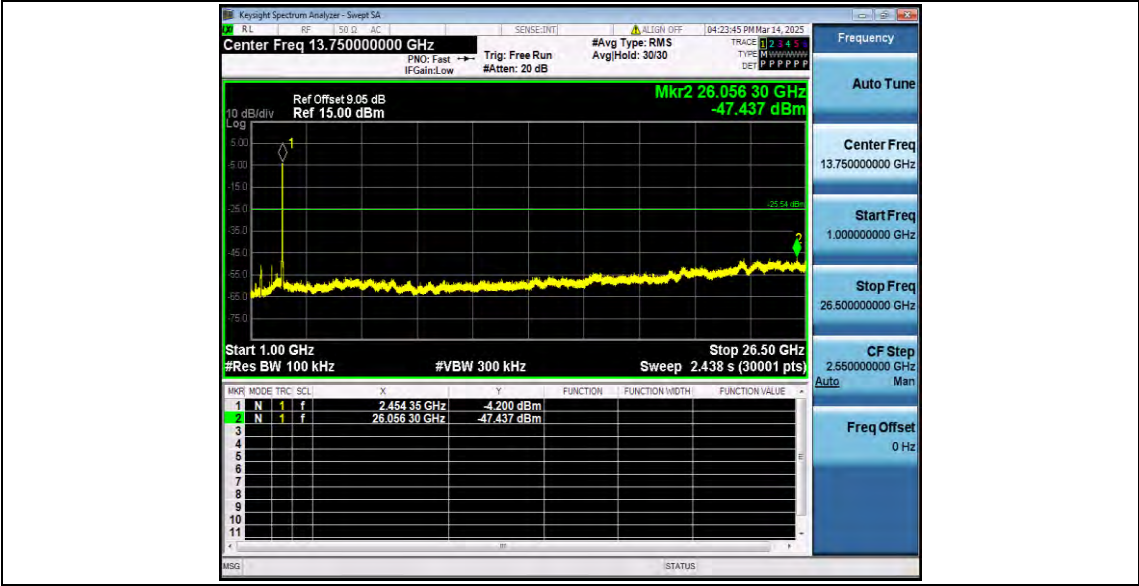
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500



Appendix A.7: Emissions in Restricted Bands

Test Result

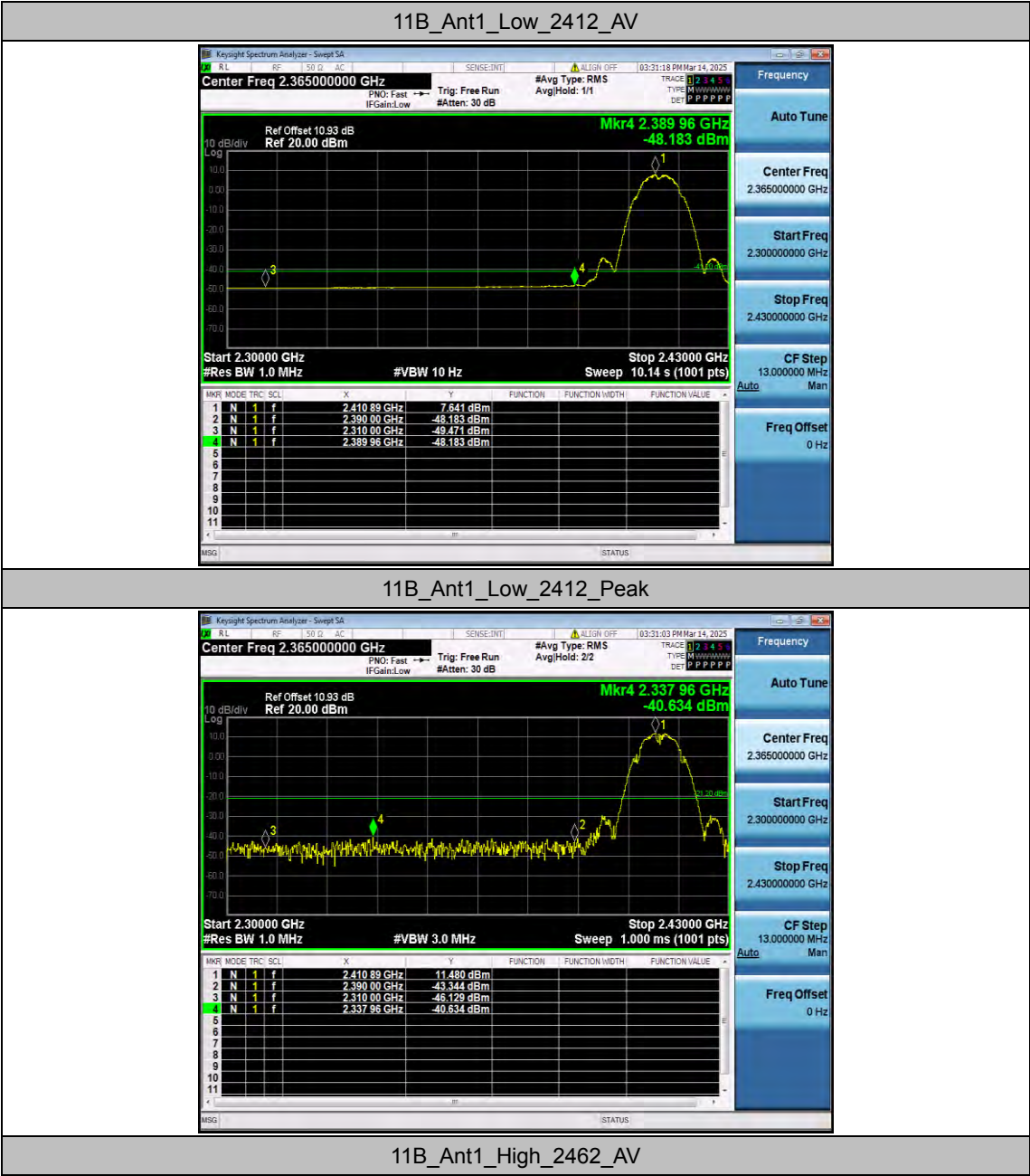
TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.47	≤-41.20	45.73	≤54	PASS
				AV	2389.960	-48.18	≤-41.20	47.02	≤54	PASS
				AV	2390.000	-48.18	≤-41.20	47.02	≤54	PASS
				Peak	2310.000	-46.13	≤-21.20	49.07	≤74	PASS
				Peak	2337.960	-40.63	≤-21.20	54.57	≤74	PASS
				Peak	2390.000	-43.34	≤-21.20	51.86	≤74	PASS
		High	2462	AV	2483.500	-49	≤-41.20	46.20	≤54	PASS
				AV	2499.840	-48.86	≤-41.20	46.34	≤54	PASS
				AV	2500.000	-48.87	≤-41.20	46.33	≤54	PASS
				Peak	2483.500	-45.89	≤-21.20	49.31	≤74	PASS
				Peak	2488.840	-41.3	≤-21.20	53.90	≤74	PASS
				Peak	2500.000	-46.78	≤-21.20	48.42	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-1000	≤-41.20	-904.80	≤54	PASS
				AV	2310.010	-1000	≤-41.20	-904.80	≤54	PASS
				AV	2390.000	-1000	≤-41.20	-904.80	≤54	PASS
				Peak	2310.000	-45.76	≤-21.20	49.44	≤74	PASS
				Peak	2317.940	-39.84	≤-21.20	55.36	≤74	PASS
				Peak	2390.000	-42.32	≤-21.20	52.88	≤74	PASS
		High	2462	AV	2483.500	-47.36	≤-41.20	47.84	≤54	PASS
				AV	2483.560	-47.39	≤-41.20	47.81	≤54	PASS
				AV	2500.000	-48.89	≤-41.20	46.31	≤54	PASS
				Peak	2483.500	-42.11	≤-21.20	53.09	≤74	PASS
				Peak	2494.780	-41.56	≤-21.20	53.64	≤74	PASS
				Peak	2500.000	-44.23	≤-21.20	50.97	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.44	≤-41.20	45.76	≤54	PASS
				AV	2389.960	-46.85	≤-41.20	48.35	≤54	PASS
				AV	2390.000	-46.85	≤-41.20	48.35	≤54	PASS
				Peak	2310.000	-47.59	≤-21.20	47.61	≤74	PASS
				Peak	2379.430	-39.87	≤-21.20	55.33	≤74	PASS
				Peak	2390.000	-49.57	≤-21.20	45.63	≤74	PASS
		High	2462	AV	2483.500	-45.9	≤-41.20	49.30	≤54	PASS
				AV	2483.560	-46	≤-41.20	49.20	≤54	PASS
				AV	2500.000	-48.74	≤-41.20	46.46	≤54	PASS
				Peak	2483.500	-45.5	≤-21.20	49.70	≤74	PASS

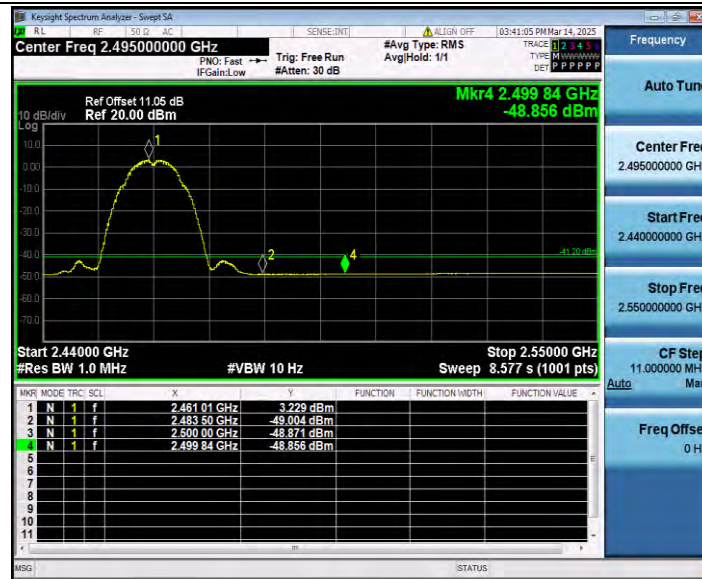
11N40SIS O	Ant1			Peak	2485.540	-36.2	≤ -21.20	59.00	≤ 74	PASS
				Peak	2500.000	-47.73	≤ -21.20	47.47	≤ 74	PASS
		Low	2422	AV	2310.000	-49.45	≤ -41.20	45.75	≤ 54	PASS
				AV	2389.960	-47.73	≤ -41.20	47.47	≤ 54	PASS
				AV	2390.000	-47.73	≤ -41.20	47.47	≤ 54	PASS
				Peak	2310.000	-49.3	≤ -21.20	45.90	≤ 74	PASS
				Peak	2371.110	-40.28	≤ -21.20	54.92	≤ 74	PASS
				Peak	2390.000	-45.25	≤ -21.20	49.95	≤ 74	PASS
		High	2452	AV	2483.500	-46.15	≤ -41.20	49.05	≤ 54	PASS
				AV	2483.560	-46.24	≤ -41.20	48.96	≤ 54	PASS
				AV	2500.000	-48.6	≤ -41.20	46.60	≤ 54	PASS
				Peak	2483.500	-40.59	≤ -21.20	54.61	≤ 74	PASS
				Peak	2484.990	-37.48	≤ -21.20	57.72	≤ 74	PASS
				Peak	2500.000	-47.3	≤ -21.20	47.90	≤ 74	PASS

Note:

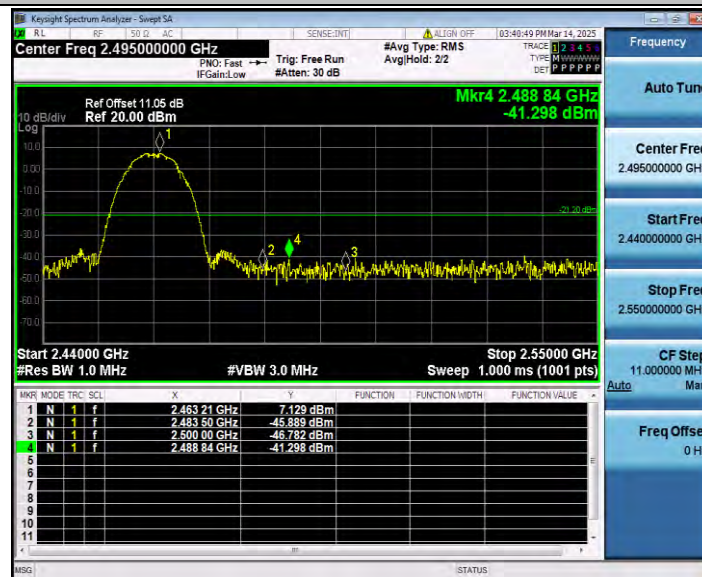
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

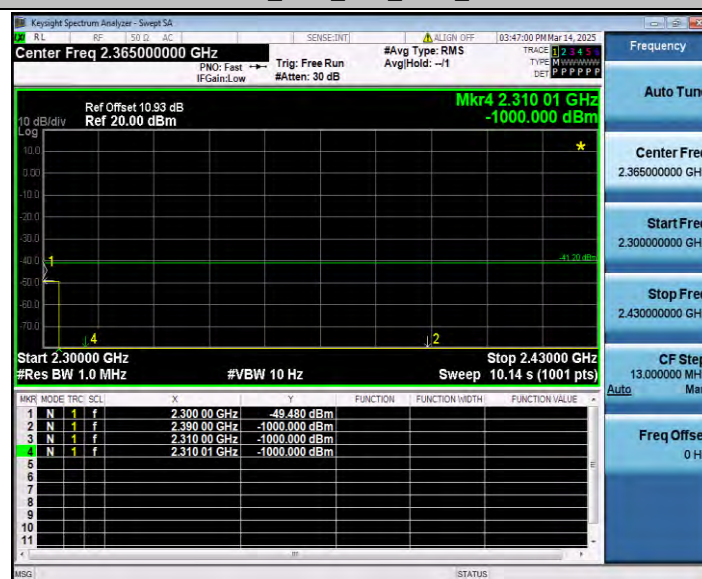




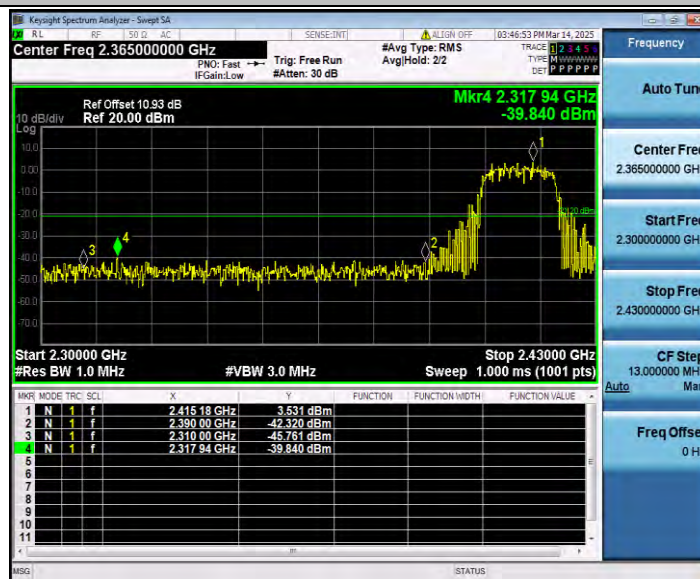
11B_Ant1_High_2462_Peak



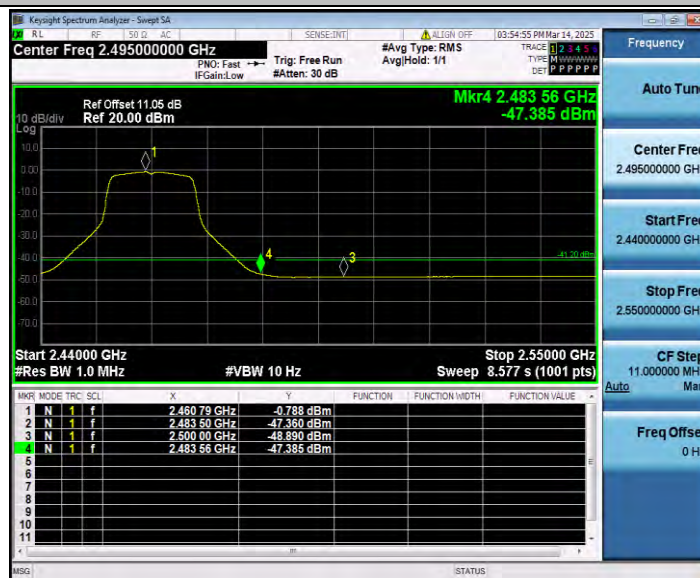
11G_Ant1_Low_2412_AV



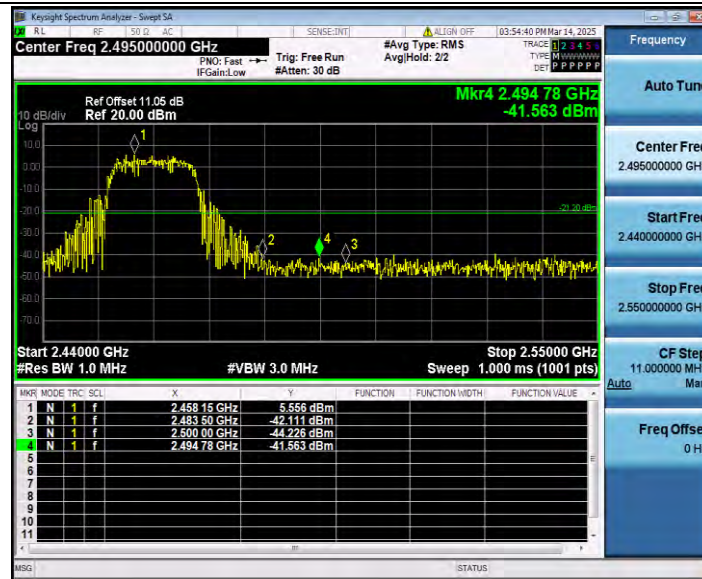
11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV



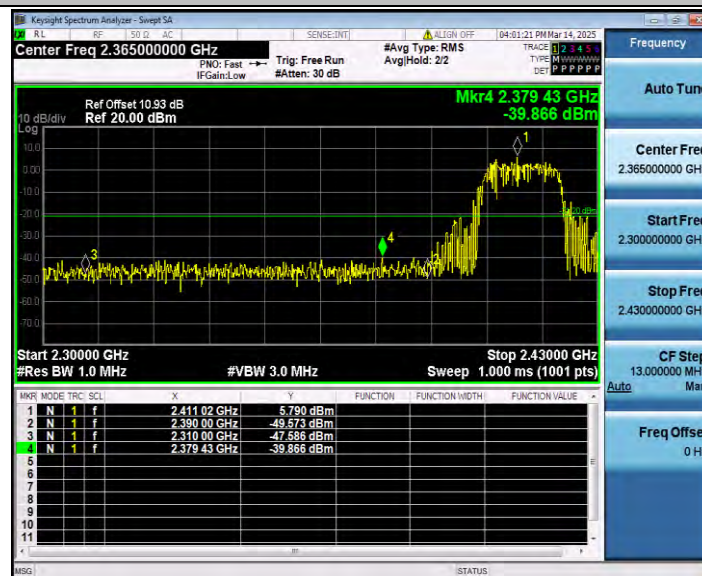
11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV



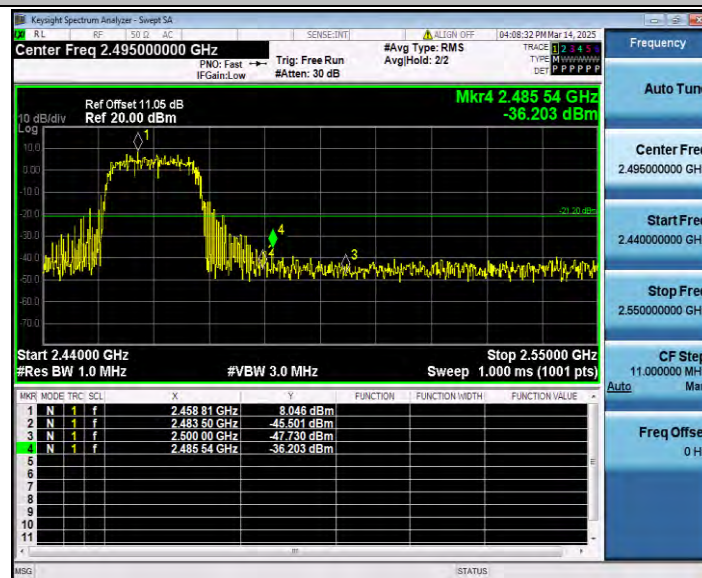
11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



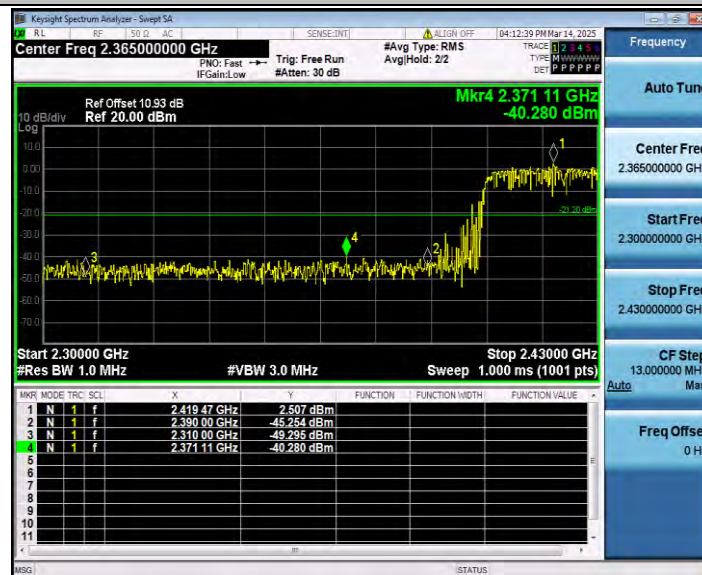
11N20SISO_Ant1_High_2462_Peak



11N40SISO_Ant1_Low_2422_AV



11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV

