

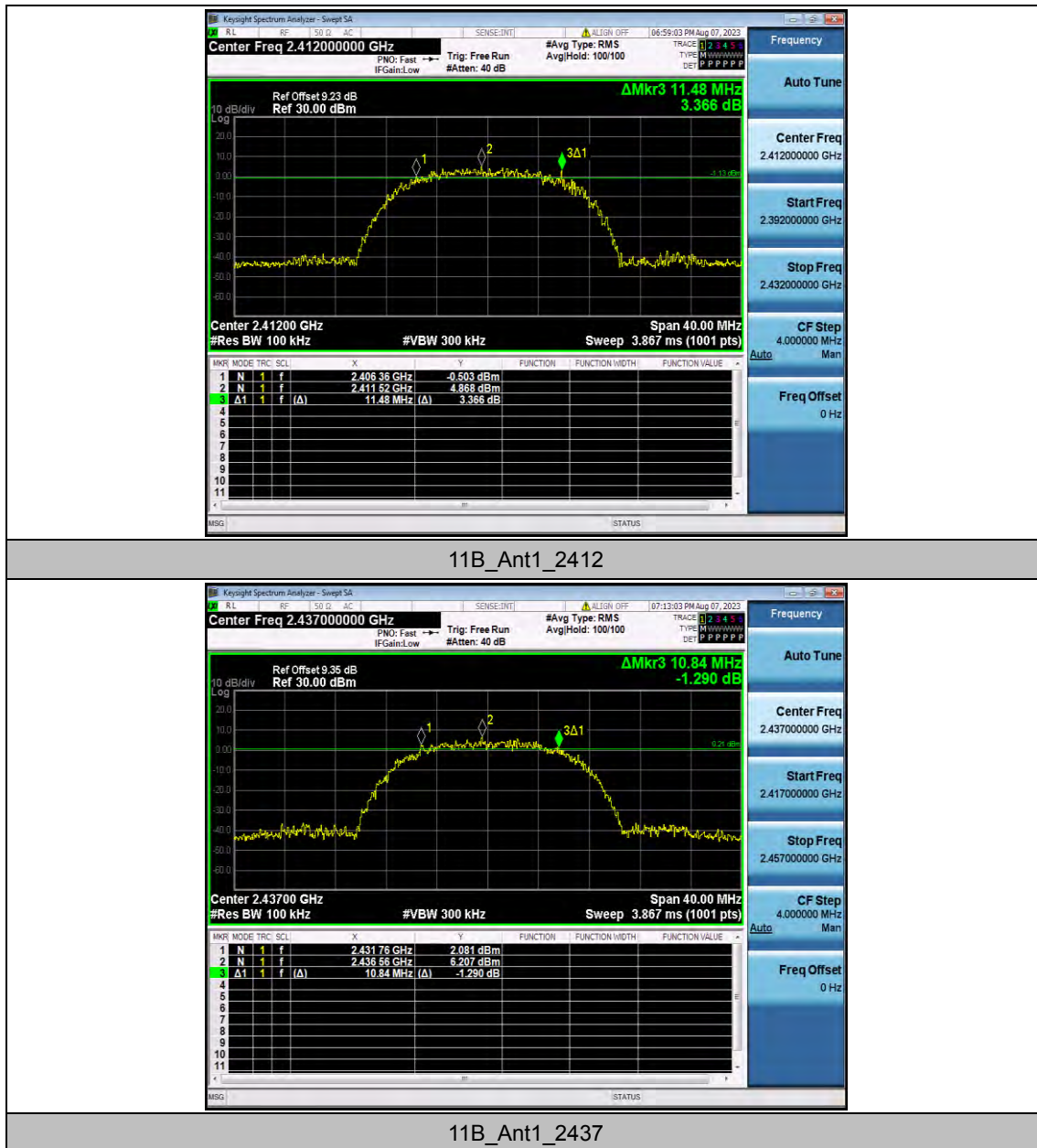
Case No. : <u>GTS20230614019-1-1</u>	
Ambient Condition: <u>24</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.8.7</u>	Test Engineer: <u>Evan Ouyang</u>

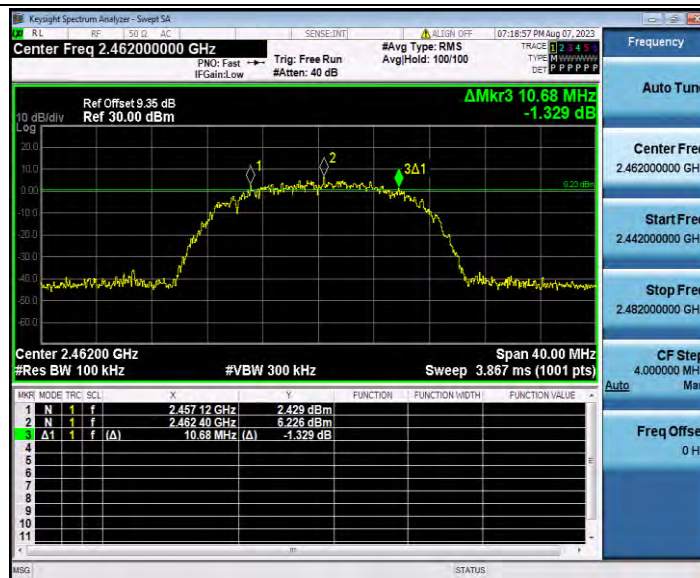
Appendix B.1: DTS Bandwidth

Test Result

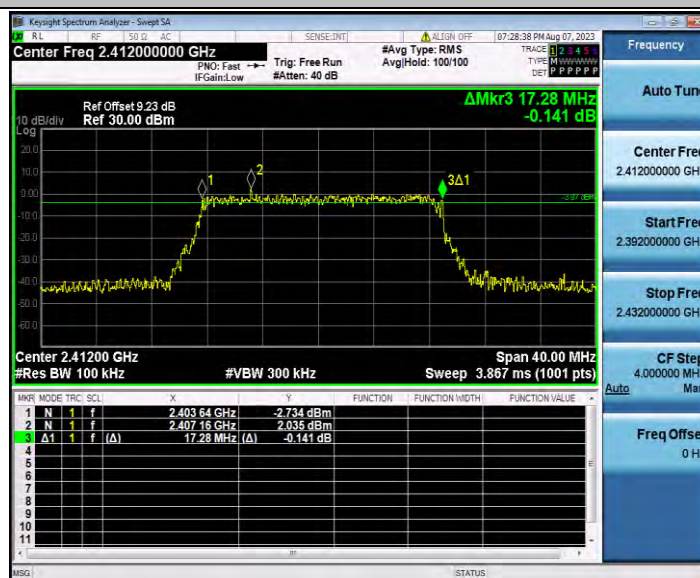
Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	11.480	2406.360	2417.840	0.5	PASS
		2437	10.840	2431.760	2442.600	0.5	PASS
		2462	10.680	2457.120	2467.800	0.5	PASS
11G	Ant1	2412	17.280	2403.640	2420.920	0.5	PASS
		2437	16.920	2428.400	2445.320	0.5	PASS
		2462	16.680	2453.680	2470.360	0.5	PASS
11N20SISO	Ant1	2412	18.200	2403.040	2421.240	0.5	PASS
		2437	8.000	2433.160	2441.160	0.5	PASS
		2462	7.800	2458.360	2466.160	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.880	2440.000	0.5	PASS
		2437	30.720	2423.960	2454.680	0.5	PASS
		2452	33.920	2434.560	2468.480	0.5	PASS

Test Graphs

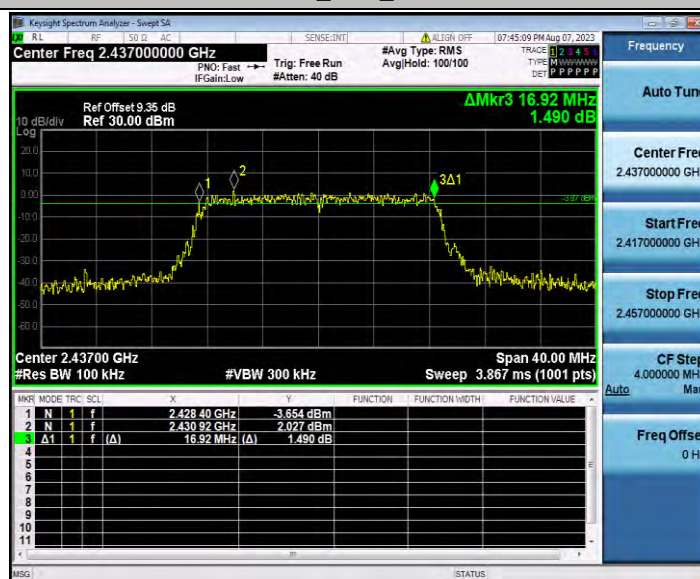




11B_Ant1_2462



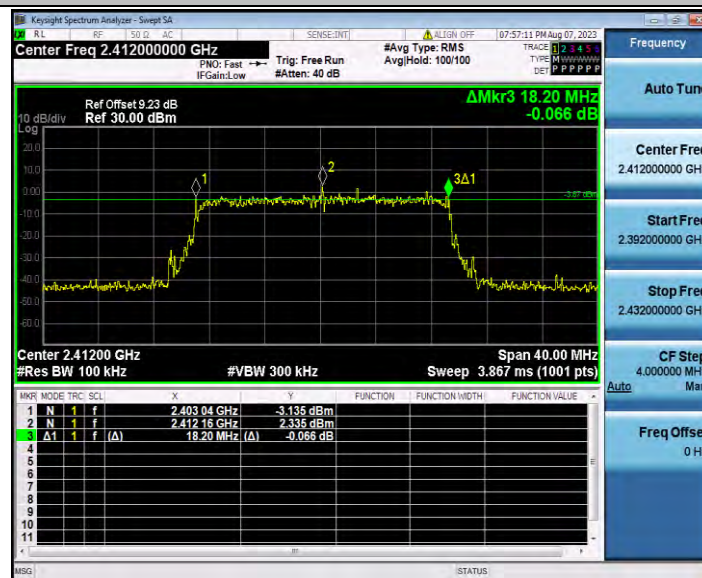
11G_Ant1_2412



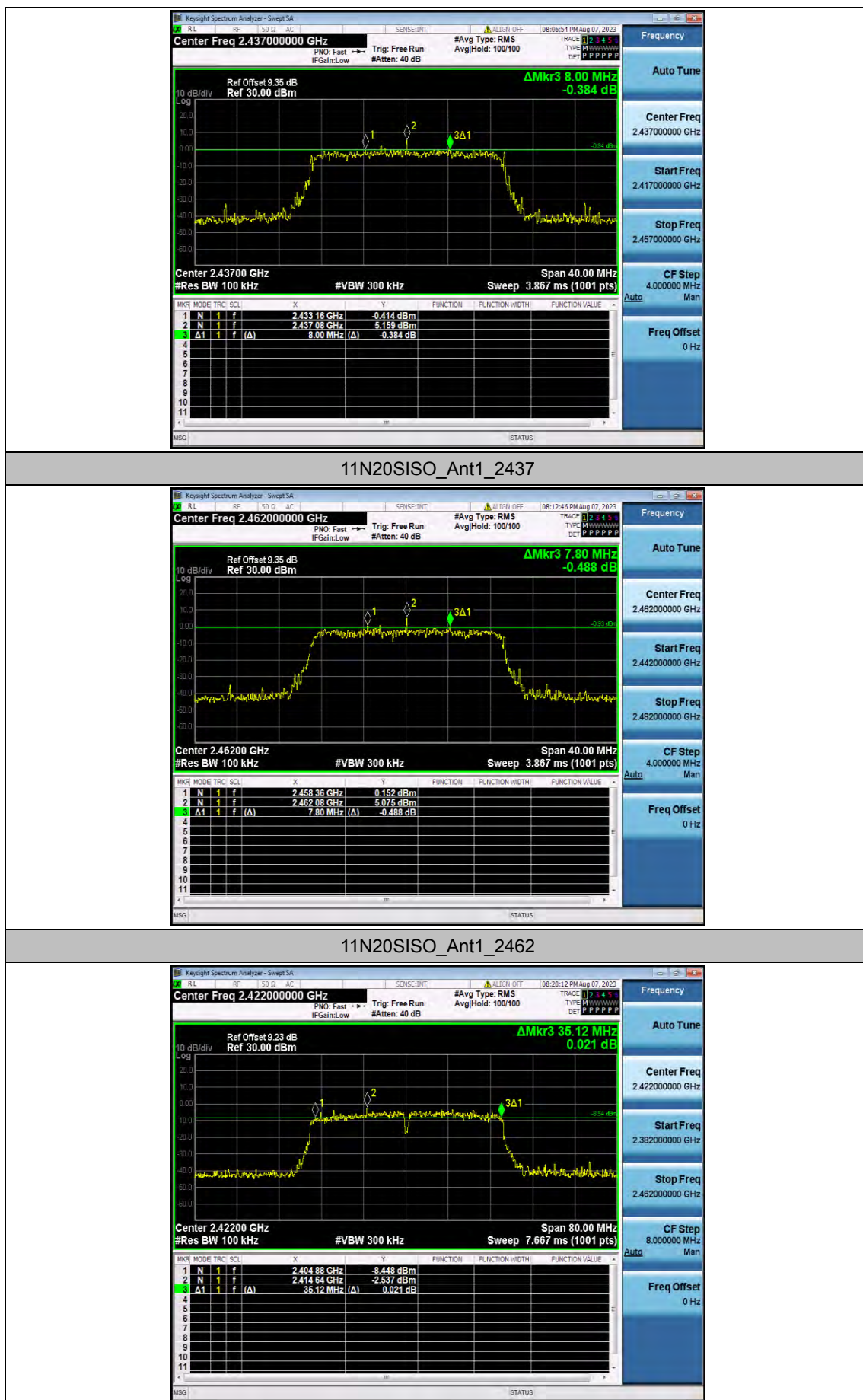
11G_Ant1_2437



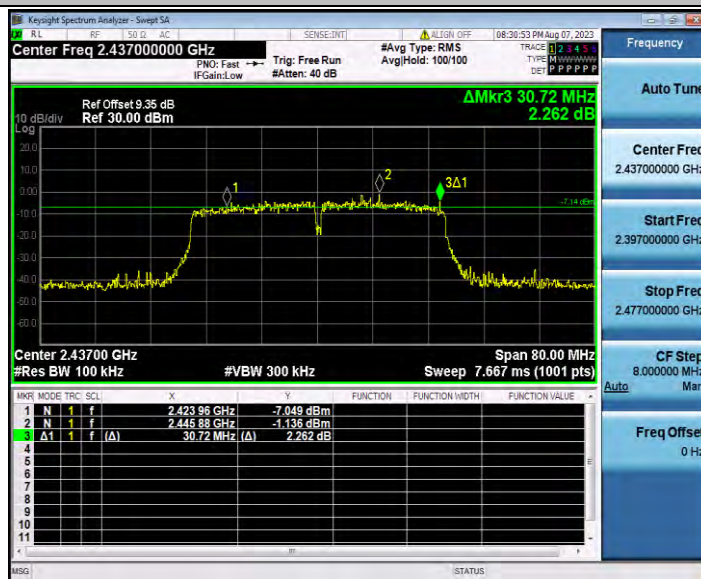
11G_Ant1_2462



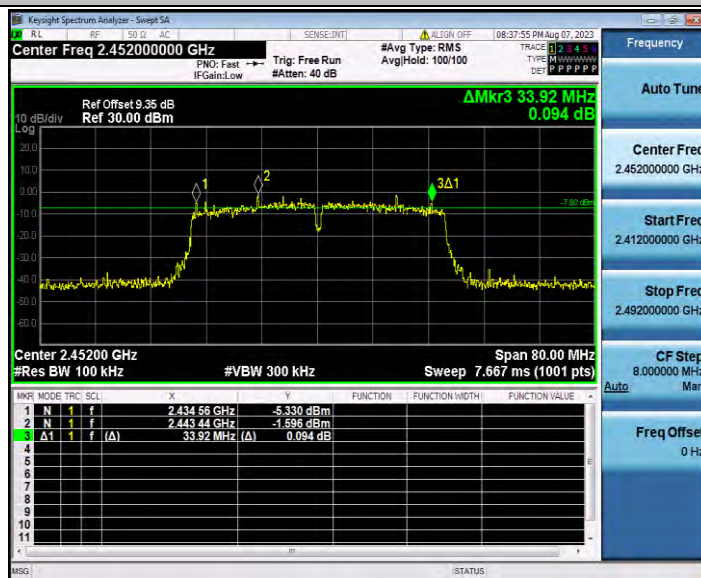
11N20SISO_Ant1_2412



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



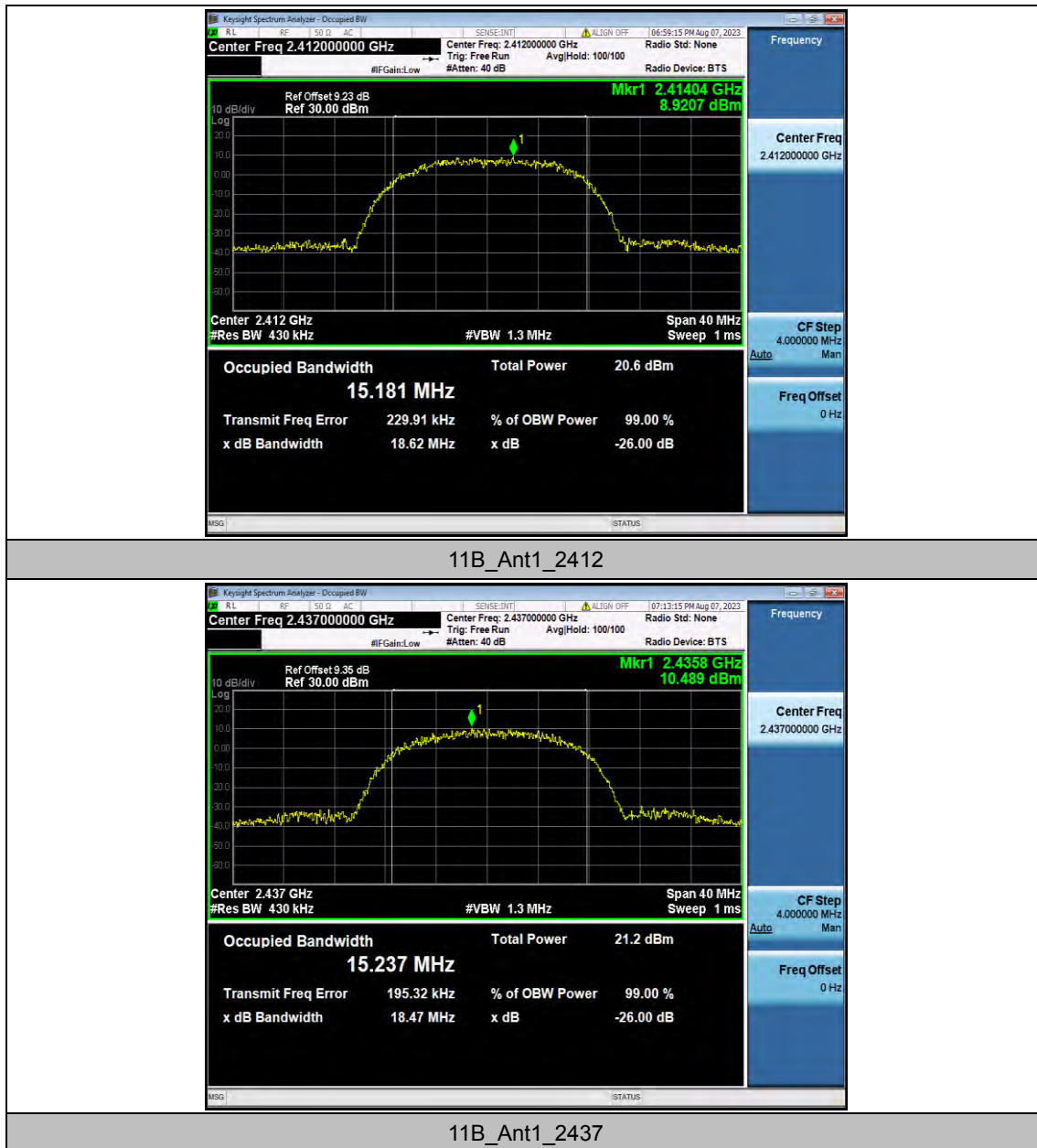
11N40SISO_Ant1_2452

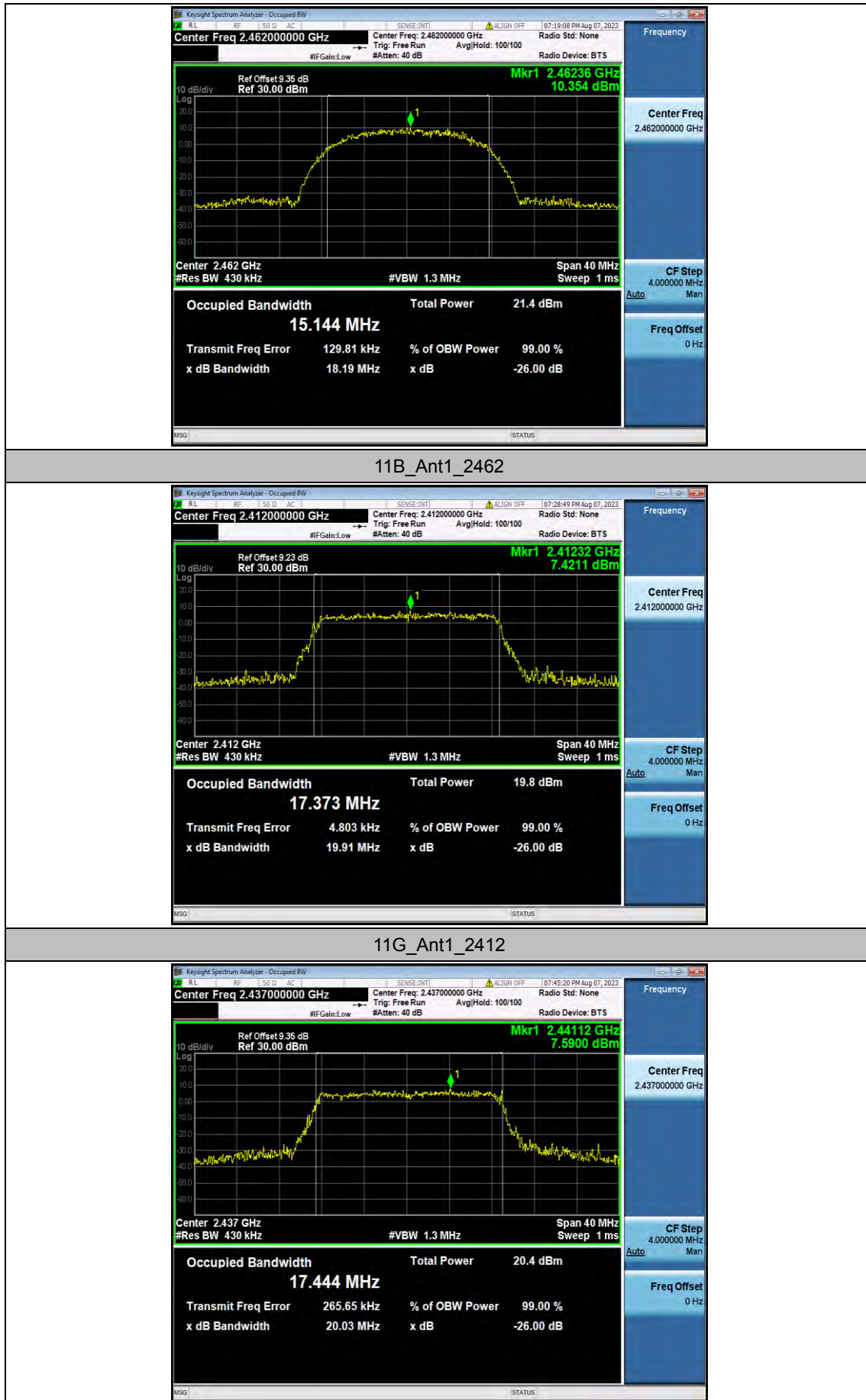
Appendix B.2: Occupied Channel Bandwidth

Test Result

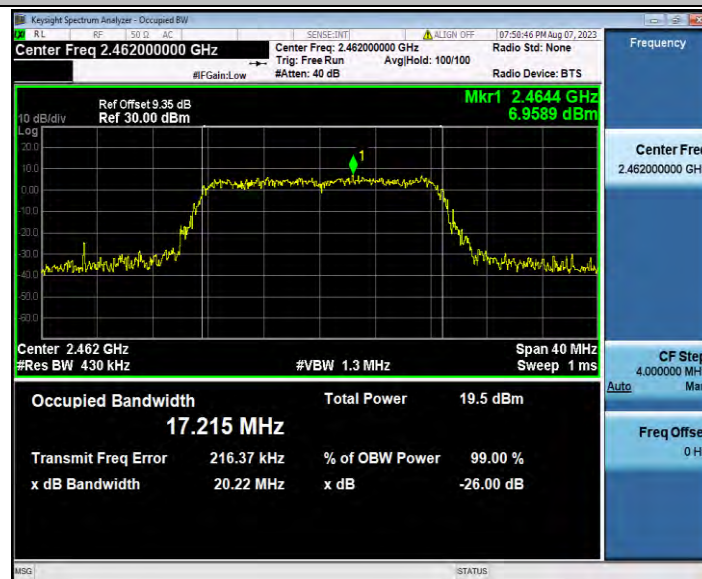
Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.181	2404.639	2419.820	---	---
		2437	15.237	2429.577	2444.814	---	---
		2462	15.144	2454.558	2469.702	---	---
11G	Ant1	2412	17.373	2403.318	2420.691	---	---
		2437	17.444	2428.544	2445.988	---	---
		2462	17.215	2453.609	2470.824	---	---
11N20SISO	Ant1	2412	18.174	2402.902	2421.076	---	---
		2437	18.183	2427.873	2446.056	---	---
		2462	18.240	2452.997	2471.237	---	---
11N40SISO	Ant1	2422	36.054	2404.224	2440.278	---	---
		2437	36.113	2419.159	2455.272	---	---
		2452	35.993	2434.185	2470.178	---	---

Test Graphs

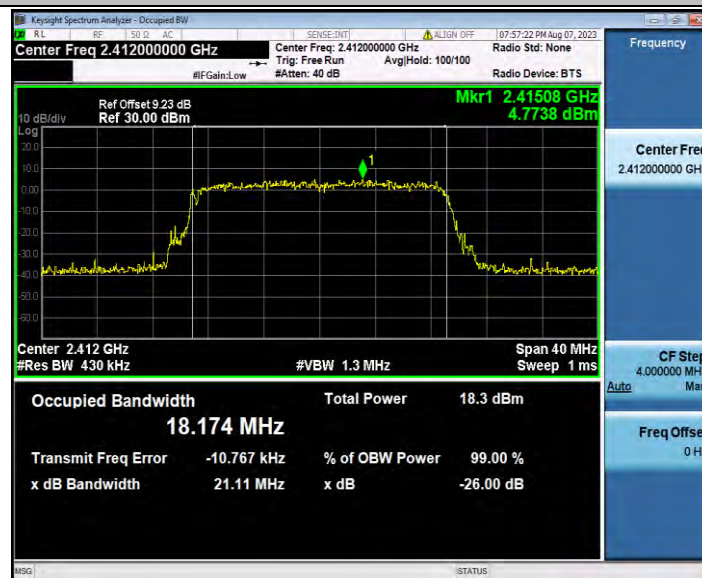




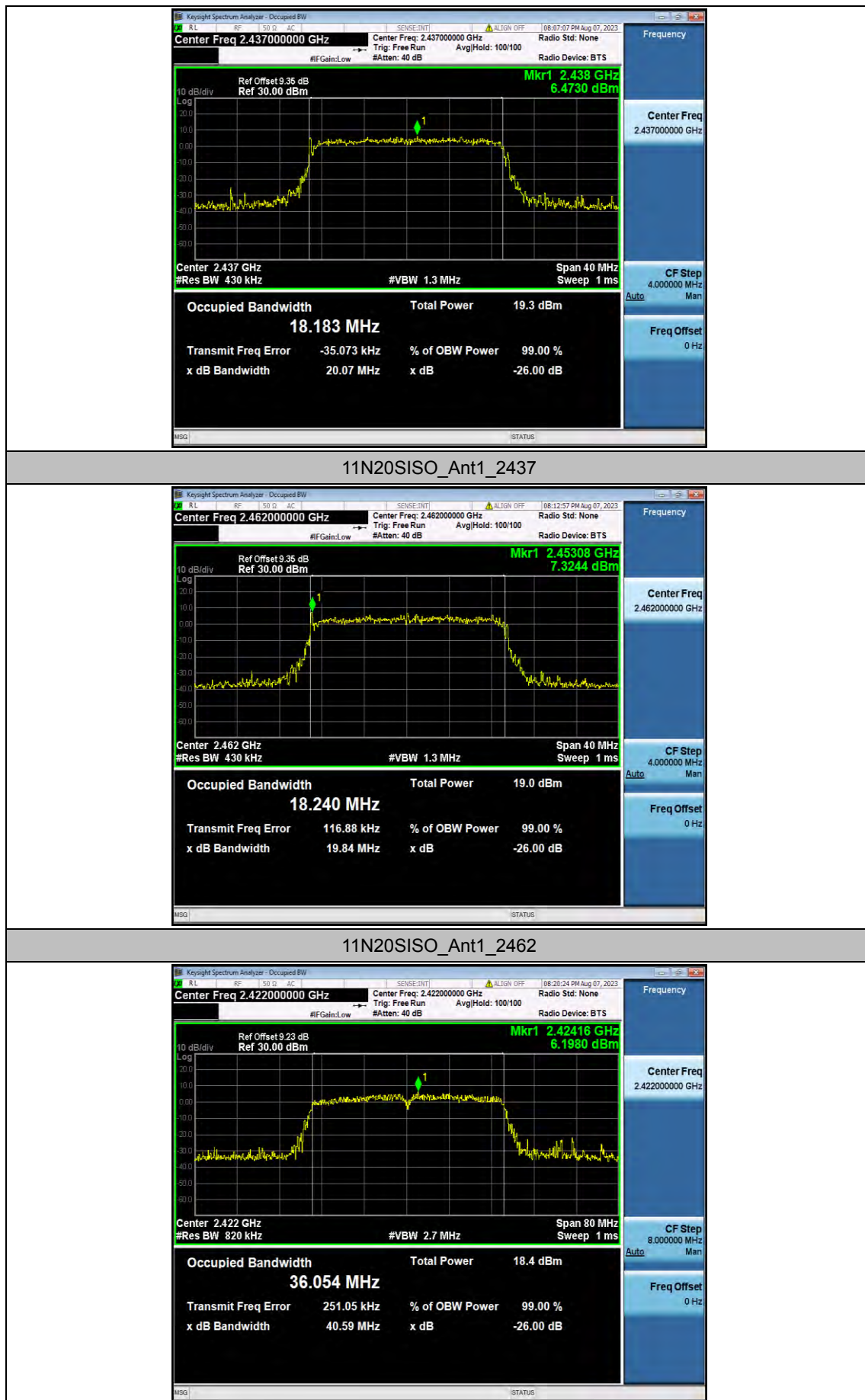
11G_Ant1_2437



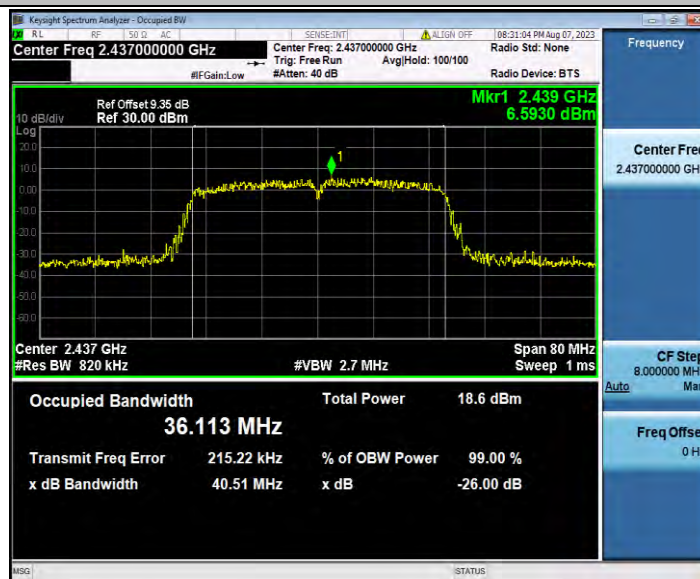
11G_Ant1_2462



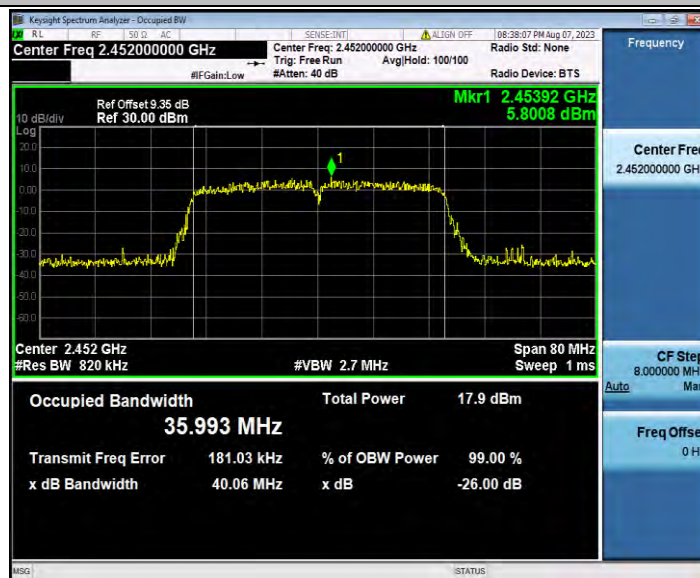
11N20SISO_Ant1_2412



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

Appendix B.3: Maximum conducted output power

Test Result Peak

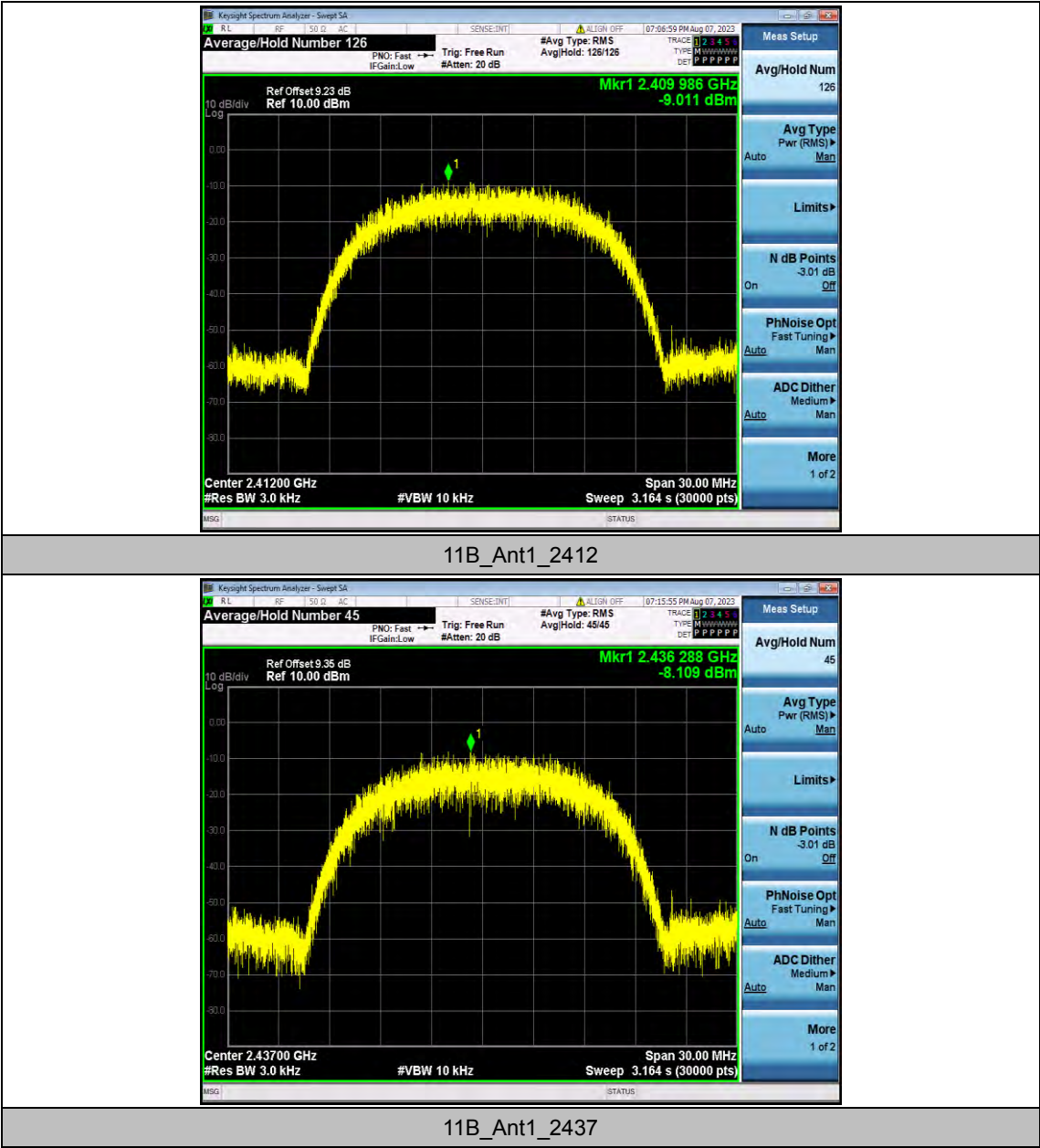
Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	20.43	≤30.00	PASS
		2437	21.42	≤30.00	PASS
		2462	21.33	≤30.00	PASS
11G	Ant1	2412	20.20	≤30.00	PASS
		2437	21.00	≤30.00	PASS
		2462	20.82	≤30.00	PASS
11N20SISO	Ant1	2412	19.31	≤30.00	PASS
		2437	19.47	≤30.00	PASS
		2462	19.98	≤30.00	PASS
11N40SISO	Ant1	2422	18.73	≤30.00	PASS
		2437	18.68	≤30.00	PASS
		2452	18.62	≤30.00	PASS

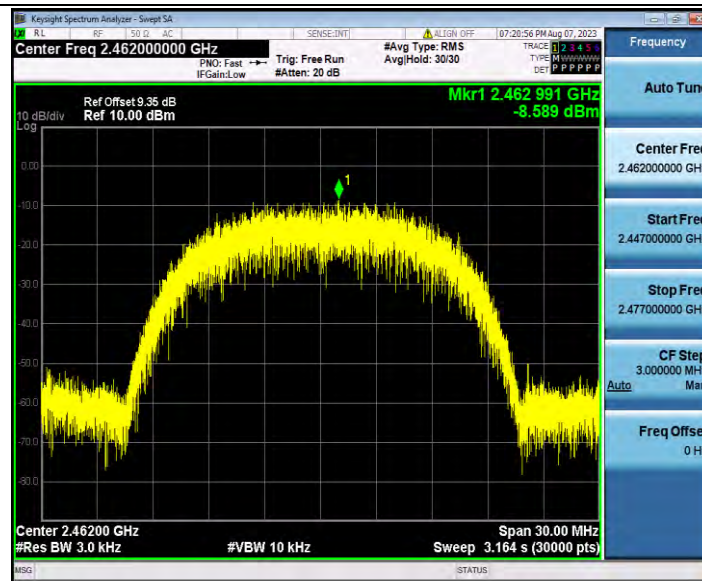
Appendix B.4: Maximum power spectral density

Test Result

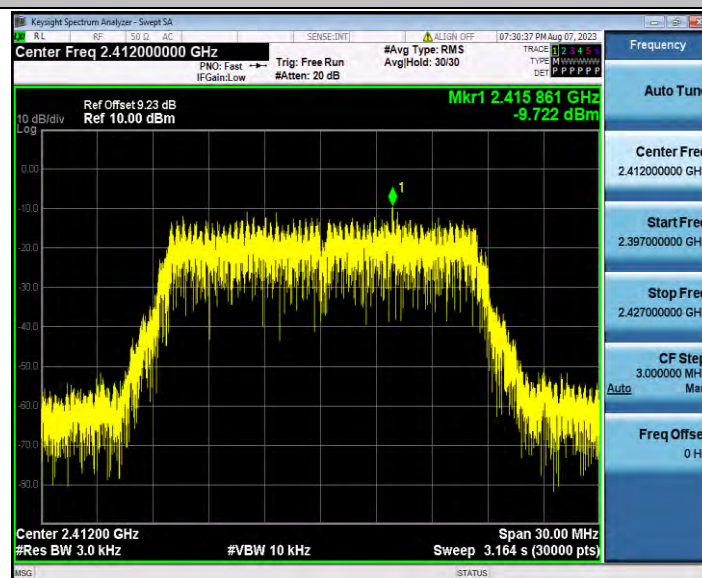
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.01	≤8.00	PASS
		2437	-8.11	≤8.00	PASS
		2462	-8.59	≤8.00	PASS
11G	Ant1	2412	-9.72	≤8.00	PASS
		2437	-10.33	≤8.00	PASS
		2462	-9.35	≤8.00	PASS
11N20SISO	Ant1	2412	-11.98	≤8.00	PASS
		2437	-10.42	≤8.00	PASS
		2462	-10.54	≤8.00	PASS
11N40SISO	Ant1	2422	-14.91	≤8.00	PASS
		2437	-15.3	≤8.00	PASS
		2452	-14.72	≤8.00	PASS

Test Graphs

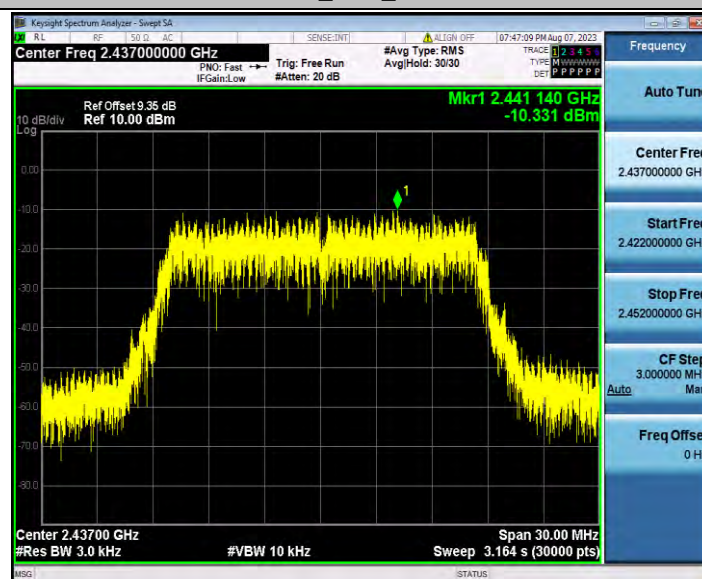




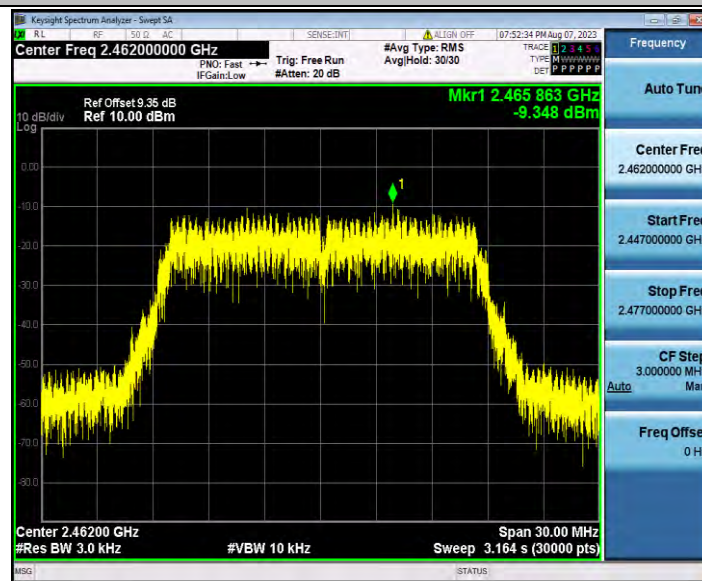
11B_Ant1_2462



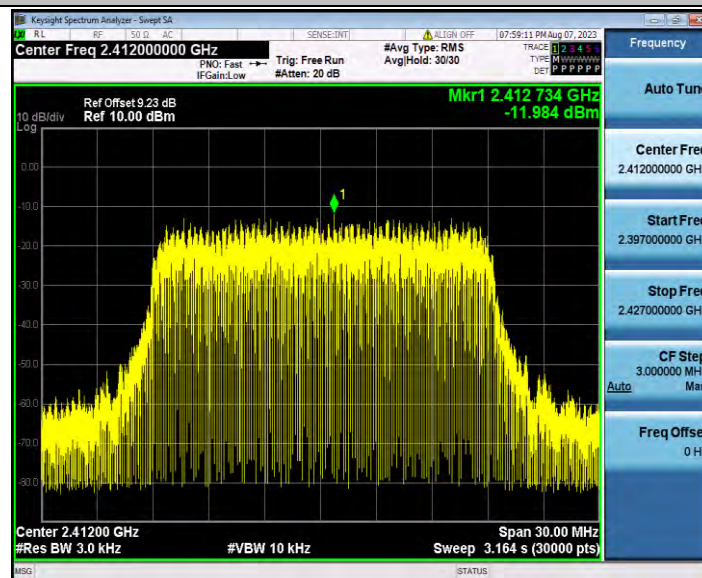
11G_Ant1_2412



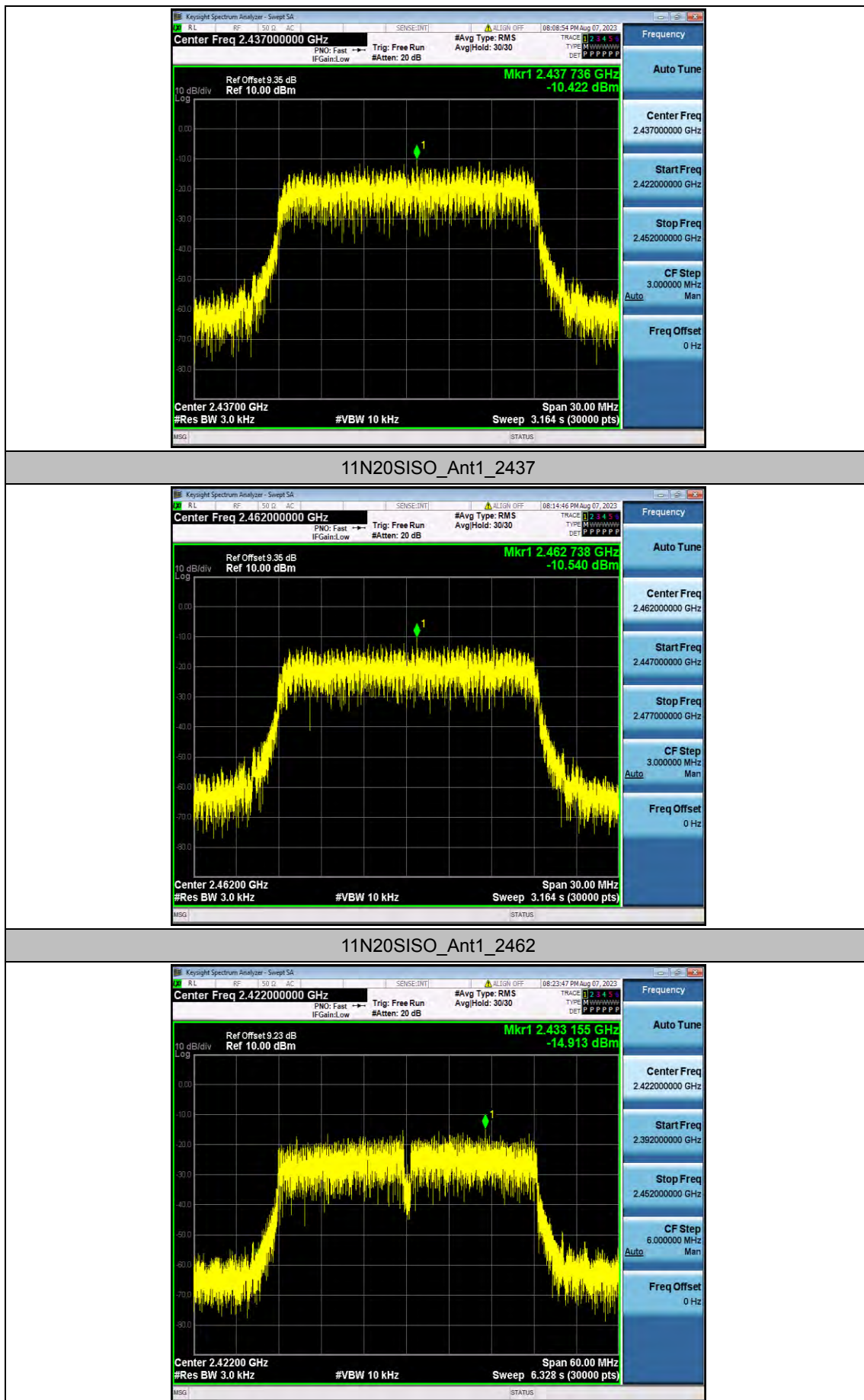
11G_Ant1_2437



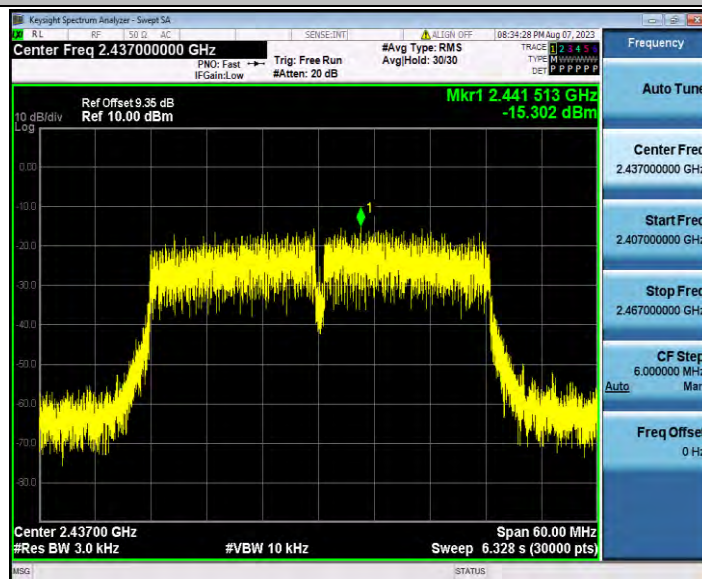
11G_Ant1_2462



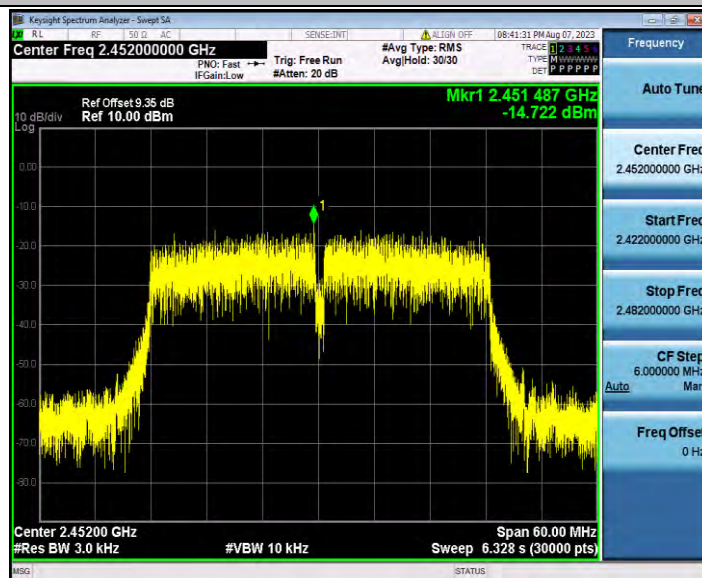
11N20SISO_Ant1_2412



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



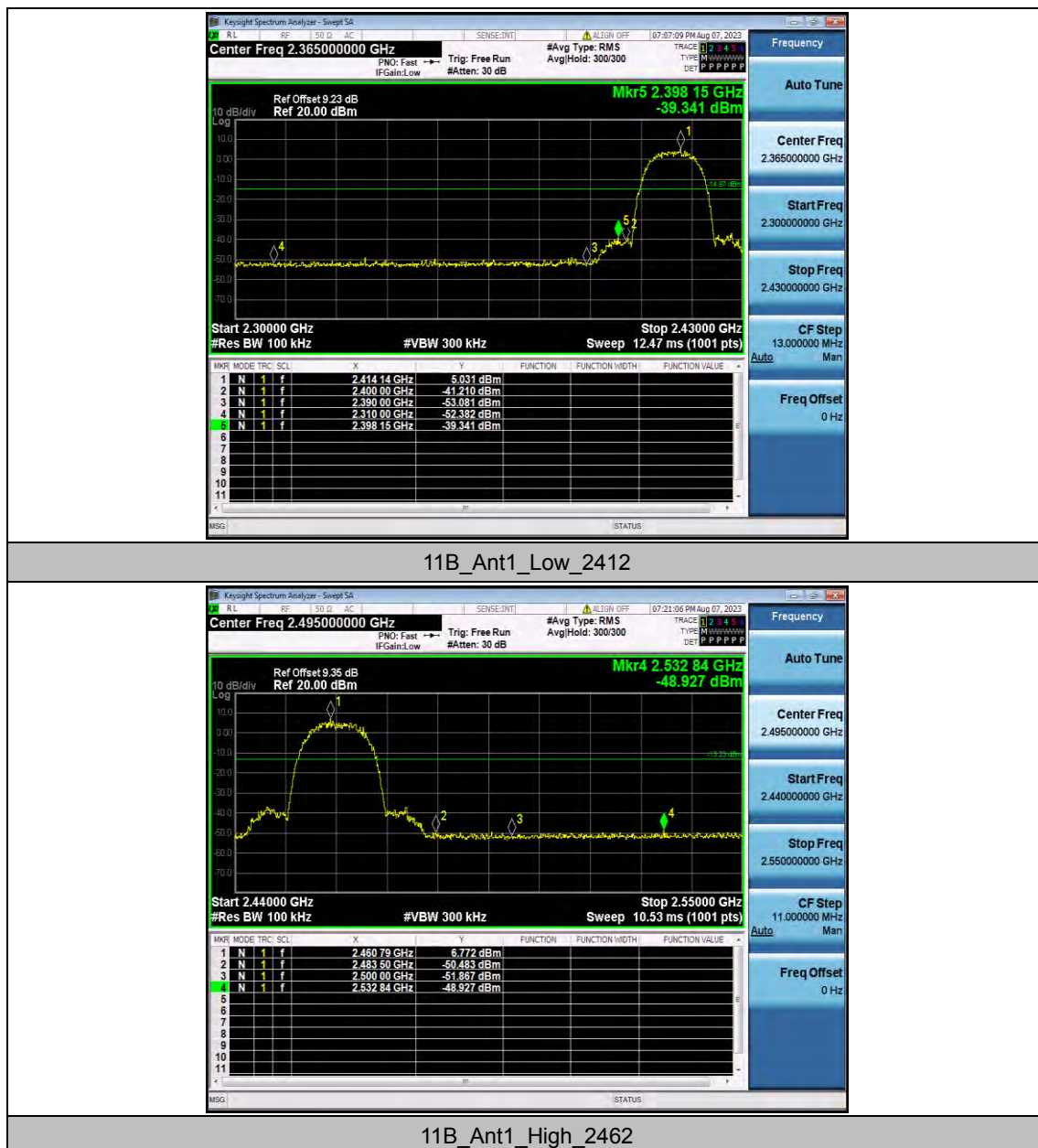
11N40SISO_Ant1_2452

Appendix B.5: Band edge measurements

Test Result

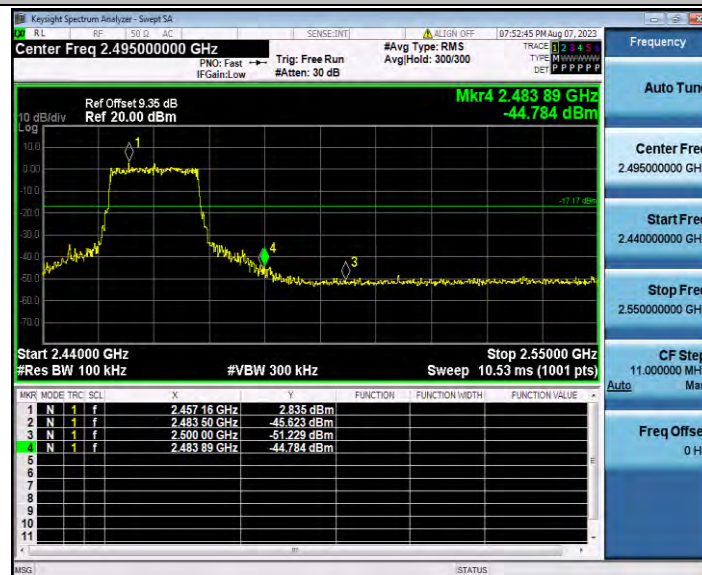
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.03	-39.34	≤ -14.97	PASS
		High	2462	6.77	-48.93	≤ -13.23	PASS
11G	Ant1	Low	2412	3.36	-38.01	≤ -16.64	PASS
		High	2462	2.84	-44.78	≤ -17.17	PASS
11N20SISO	Ant1	Low	2412	2.12	-36.64	≤ -17.88	PASS
		High	2462	2.76	-43.13	≤ -17.24	PASS
11N40SISO	Ant1	Low	2422	-1.70	-37.95	≤ -21.7	PASS
		High	2452	-1.54	-38.49	≤ -21.54	PASS

Test Graphs

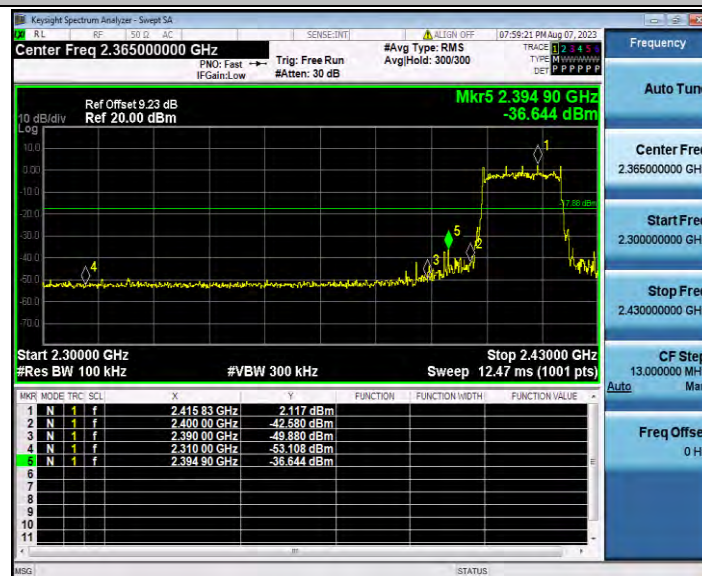




11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

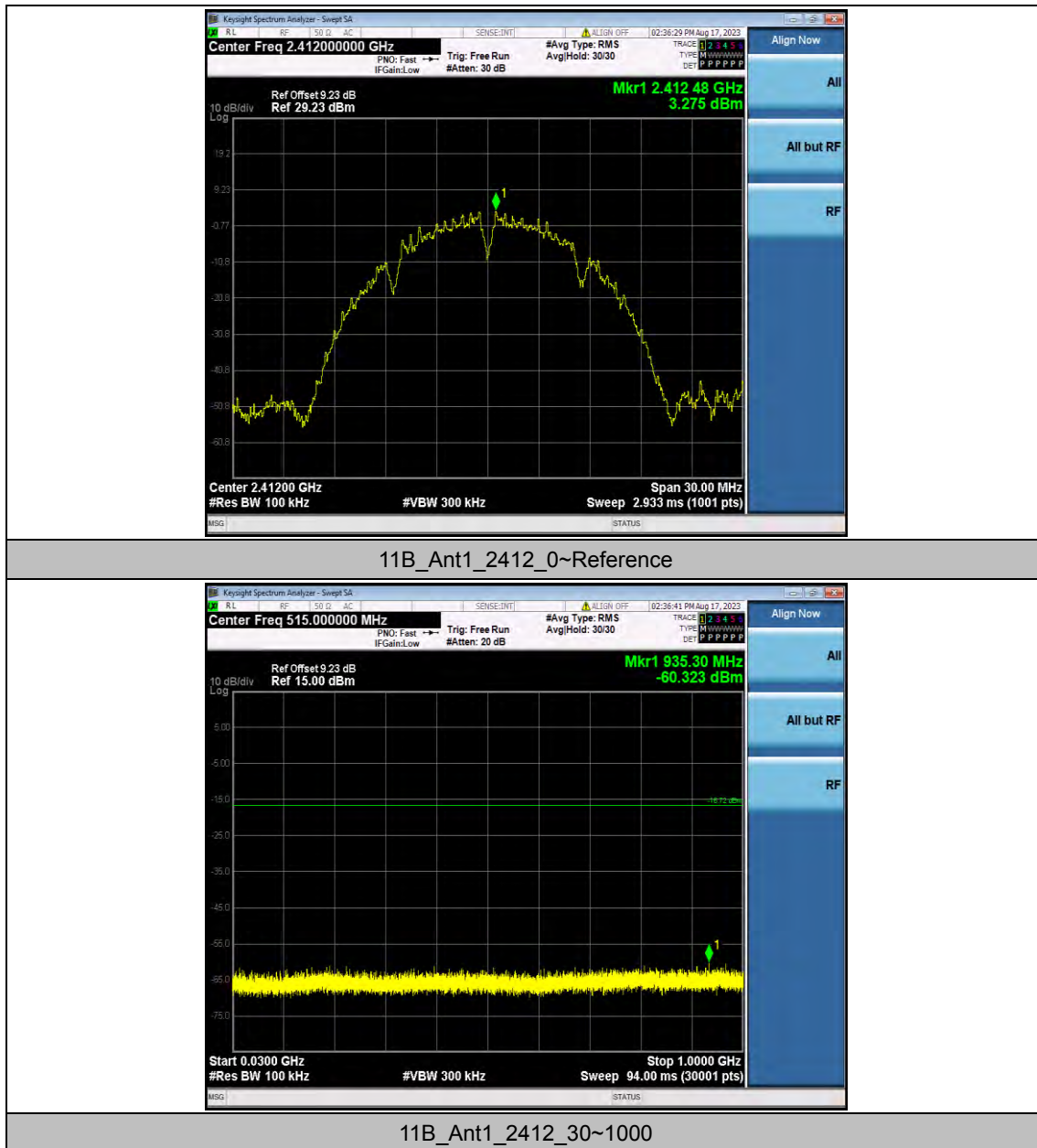


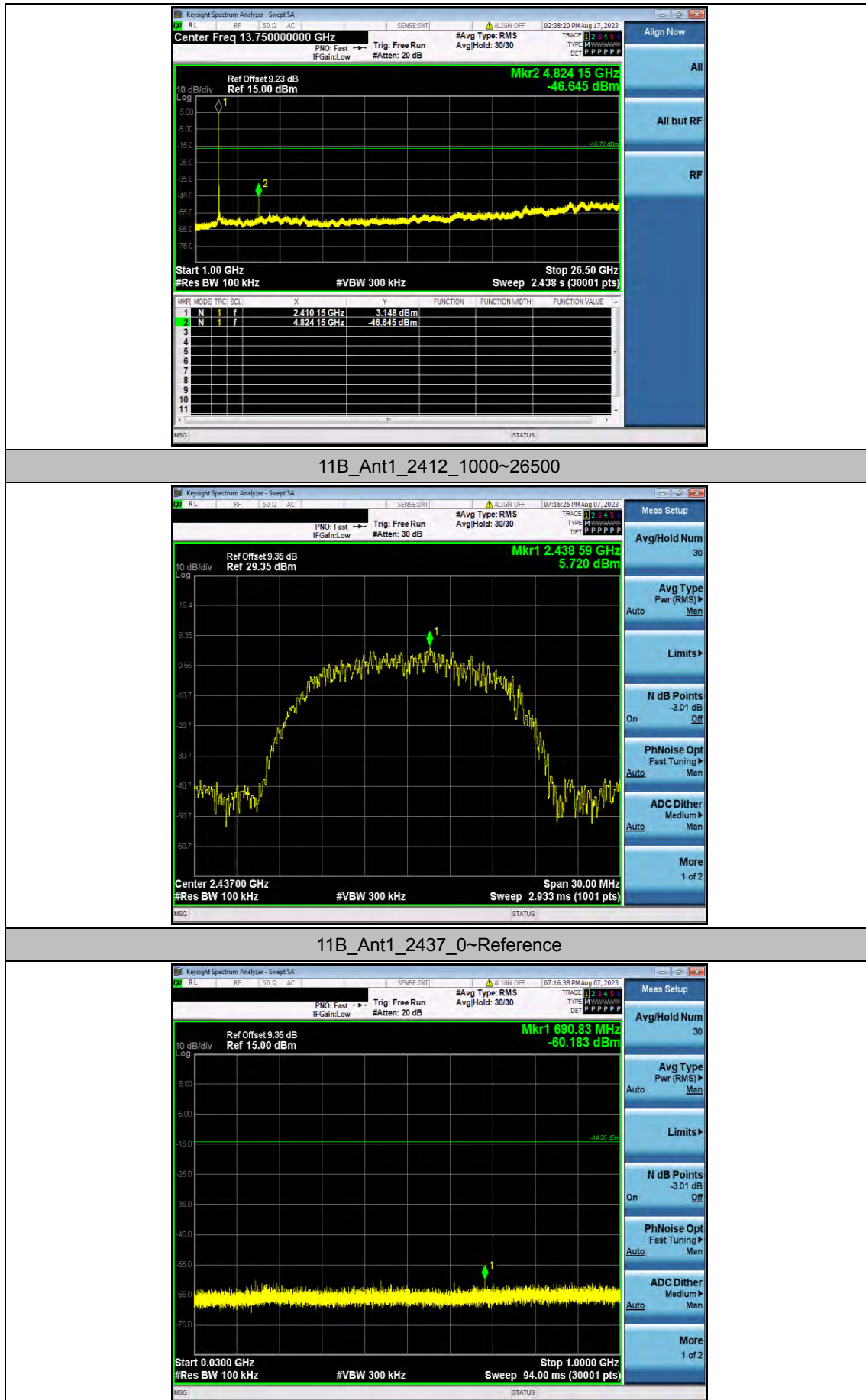
Appendix B.6: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.28	3.28	---	PASS
			30~1000	3.28	-60.32	≤ -16.72	PASS
			1000~26500	3.28	-46.65	≤ -16.72	PASS
		2437	Reference	5.72	5.72	---	PASS
			30~1000	5.72	-60.18	≤ -14.28	PASS
			1000~26500	5.72	-47.63	≤ -14.28	PASS
		2462	Reference	4.26	4.26	---	PASS
			30~1000	4.26	-60.37	≤ -15.74	PASS
			1000~26500	4.26	-47.69	≤ -15.74	PASS
11G	Ant1	2412	Reference	0.01	0.01	---	PASS
			30~1000	0.01	-60.71	≤ -19.99	PASS
			1000~26500	0.01	-48.09	≤ -19.99	PASS
		2437	Reference	0.68	0.68	---	PASS
			30~1000	0.68	-60.38	≤ -19.32	PASS
			1000~26500	0.68	-46.53	≤ -19.32	PASS
		2462	Reference	0.32	0.32	---	PASS
			30~1000	0.32	-60.08	≤ -19.68	PASS
			1000~26500	0.32	-47.3	≤ -19.68	PASS
11N20SISO	Ant1	2412	Reference	3.40	3.40	---	PASS
			30~1000	3.40	-59.97	≤ -16.6	PASS
			1000~26500	3.40	-48	≤ -16.6	PASS
		2437	Reference	-0.53	-0.53	---	PASS
			30~1000	-0.53	-60.11	≤ -20.53	PASS
			1000~26500	-0.53	-47.17	≤ -20.53	PASS
		2462	Reference	0.43	0.43	---	PASS
			30~1000	0.43	-60.23	≤ -19.57	PASS
			1000~26500	0.43	-47.48	≤ -19.57	PASS
11N40SISO	Ant1	2422	Reference	0.29	0.29	---	PASS
			30~1000	0.29	-60.45	≤ -19.71	PASS
			1000~26500	0.29	-47.51	≤ -19.71	PASS
		2437	Reference	-2.80	-2.80	---	PASS
			30~1000	-2.80	-60.84	≤ -22.8	PASS
			1000~26500	-2.80	-46.92	≤ -22.8	PASS
		2452	Reference	-4.41	-4.41	---	PASS
			30~1000	-4.41	-60.25	≤ -24.41	PASS
			1000~26500	-4.41	-47.09	≤ -24.41	PASS

Test Graphs





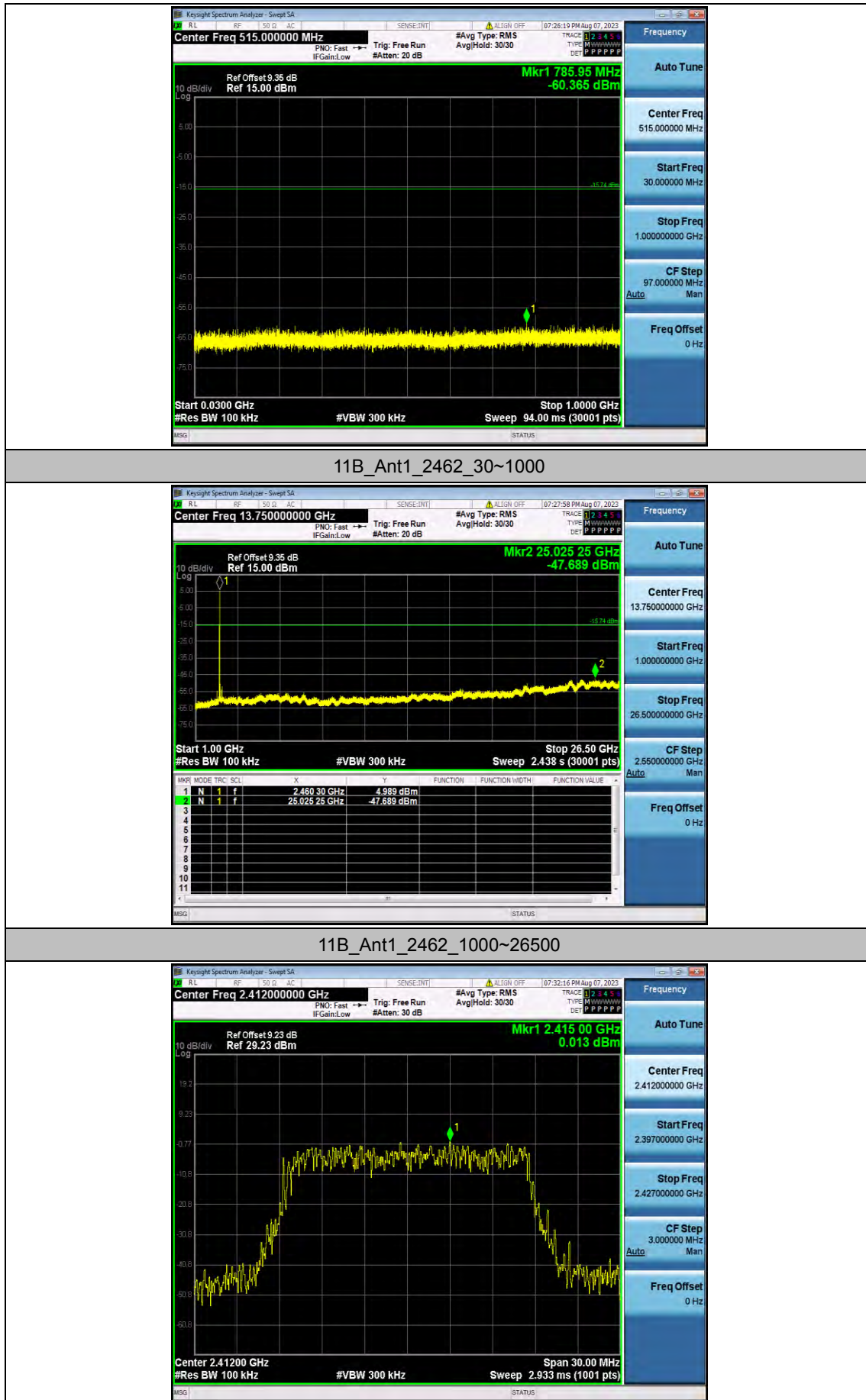
11B_Ant1_2437_30~1000

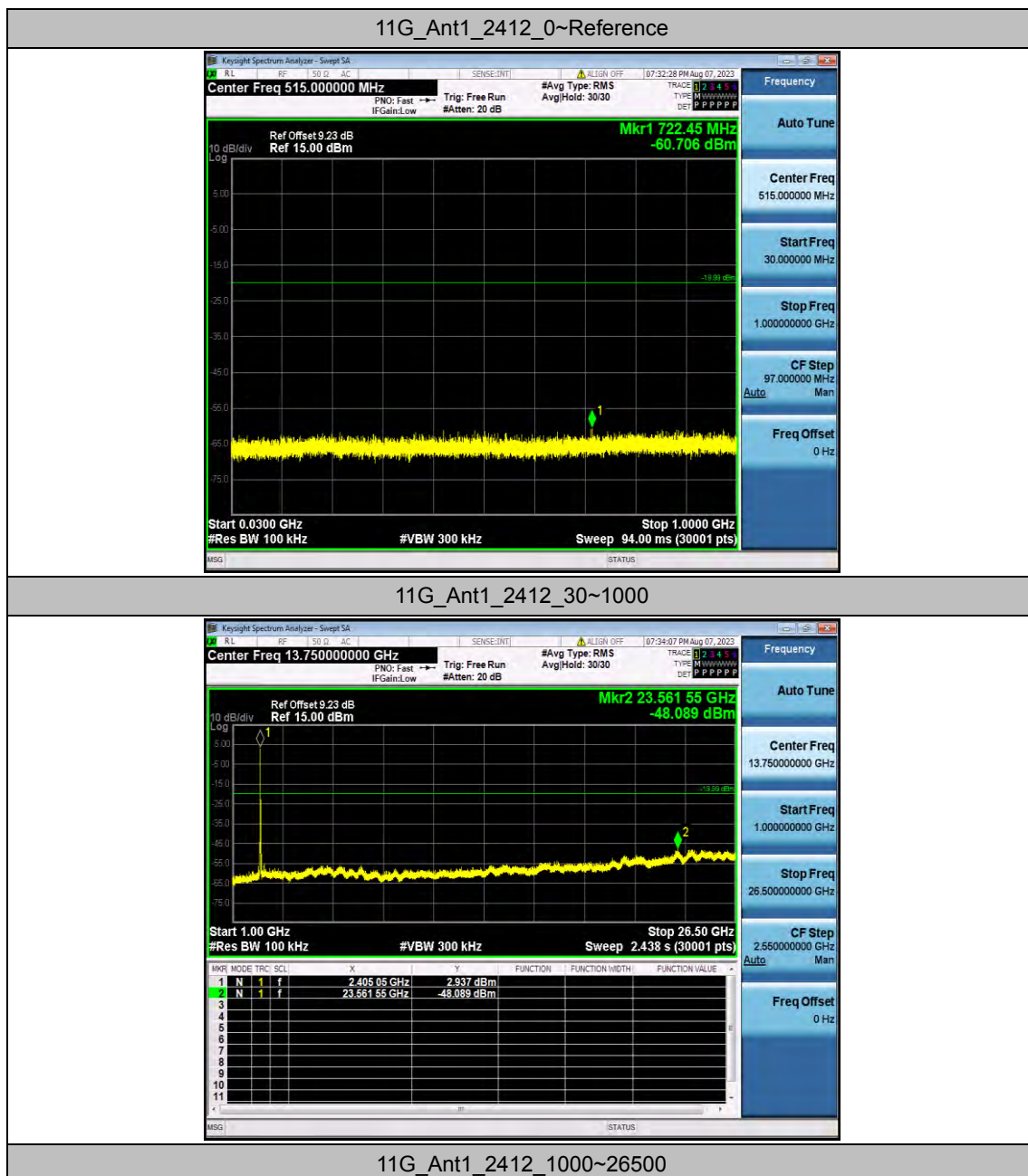


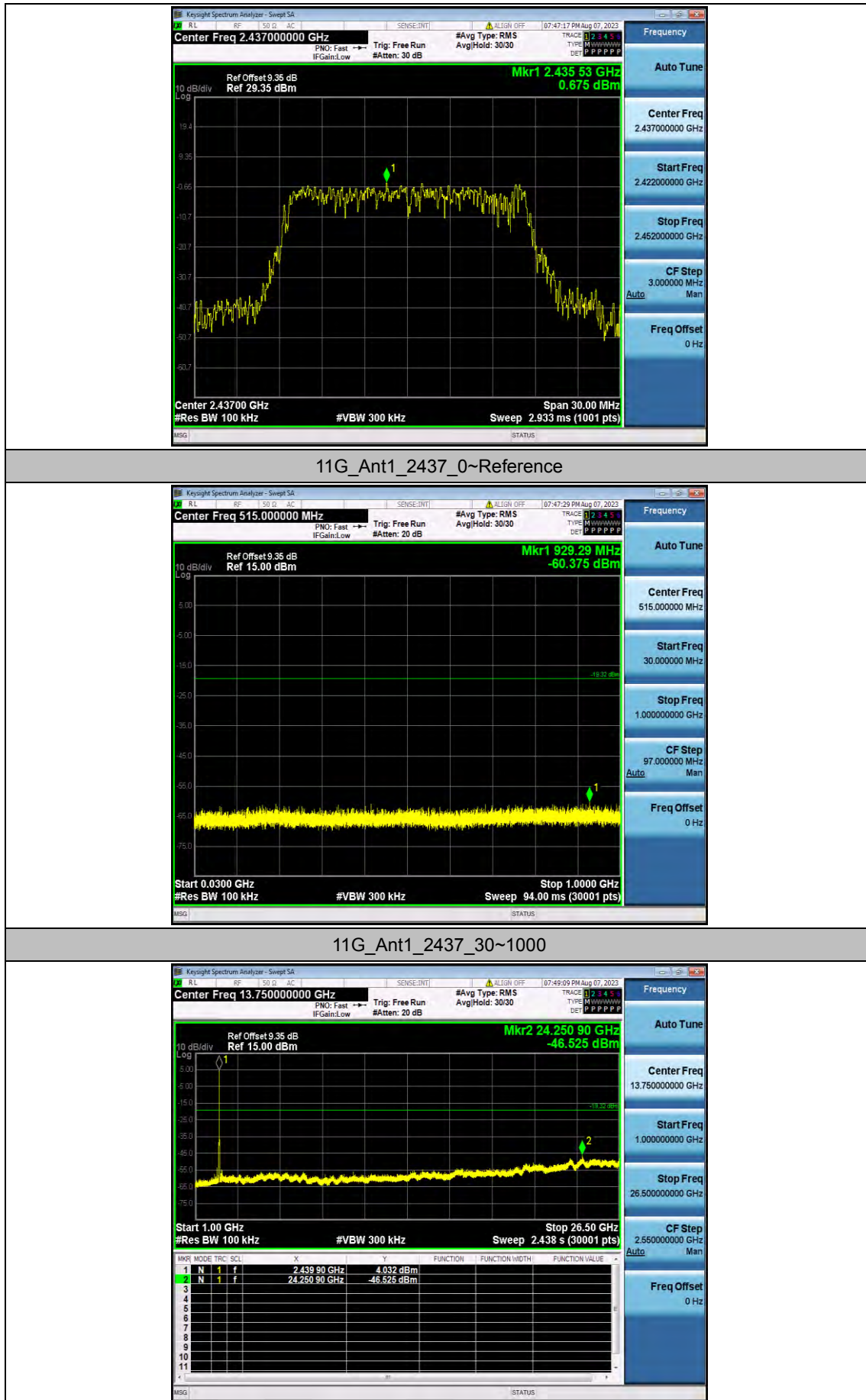
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



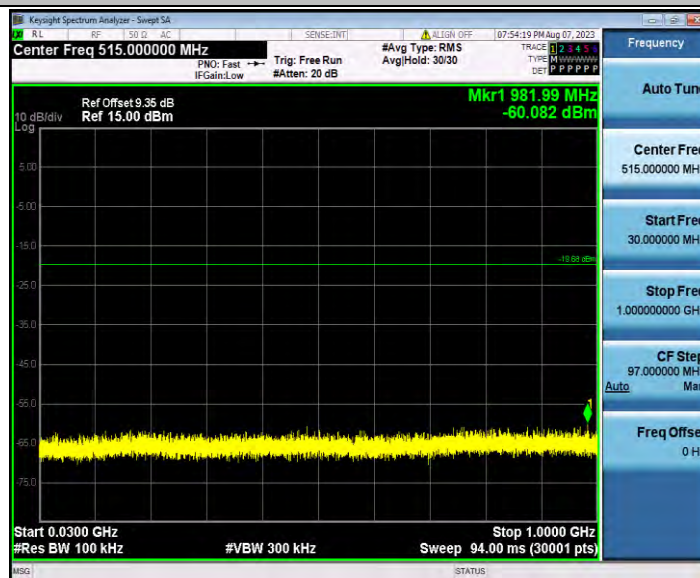




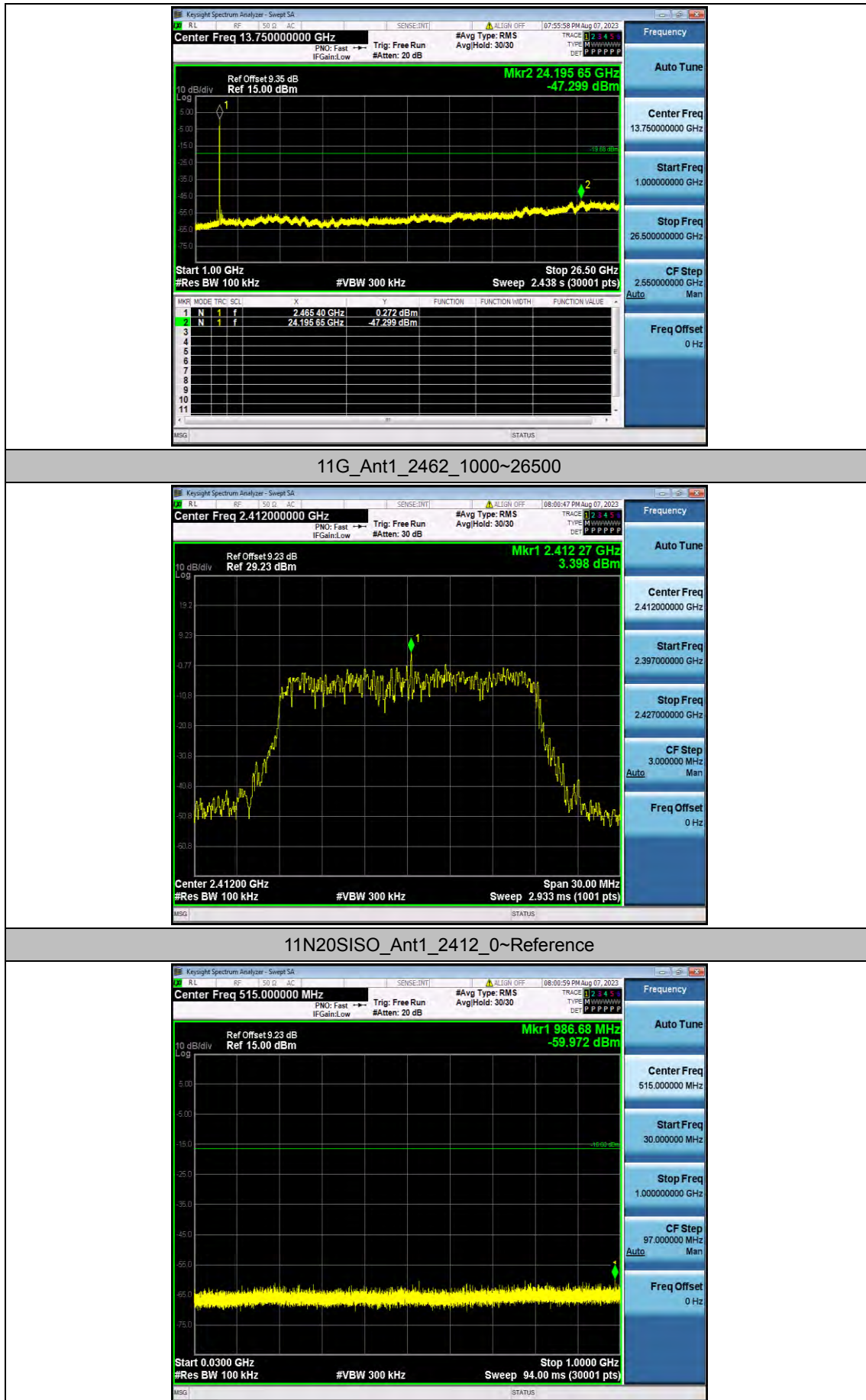
11G_Ant1_2437_1000~26500



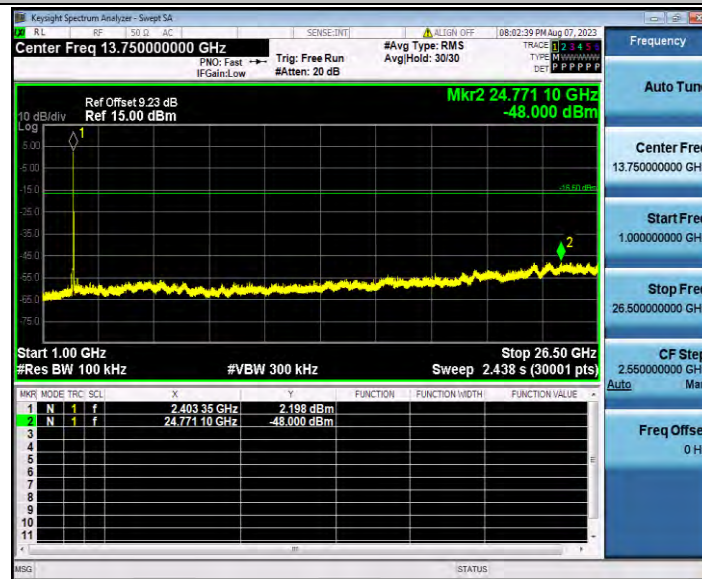
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



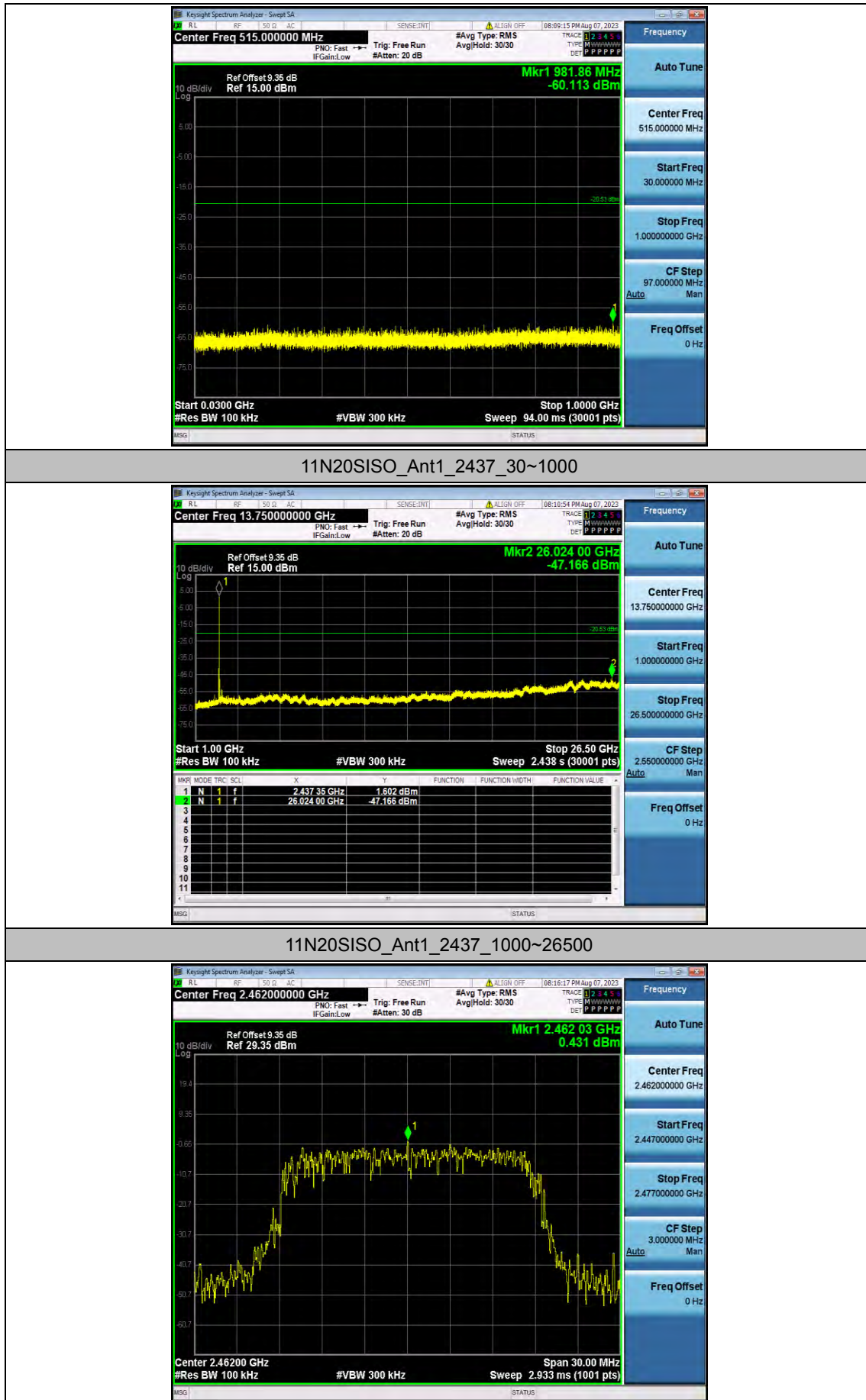
11N20SISO_Ant1_2412_30~1000



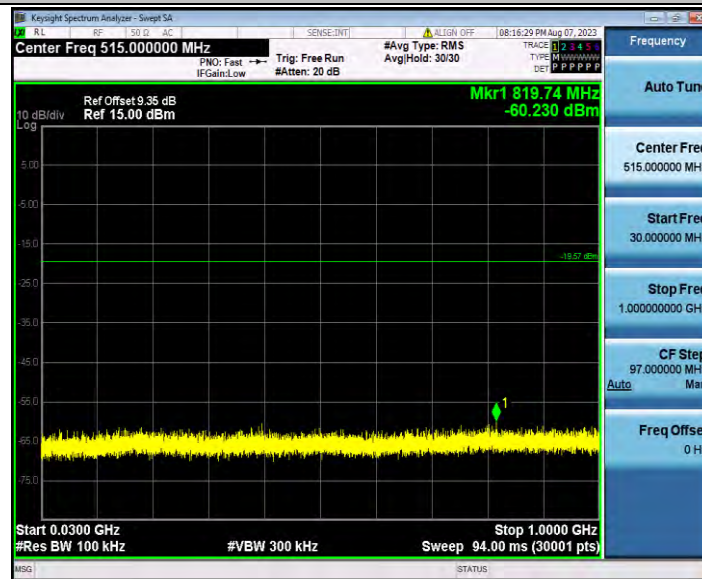
11N20SISO_Ant1_2412_1000~26500



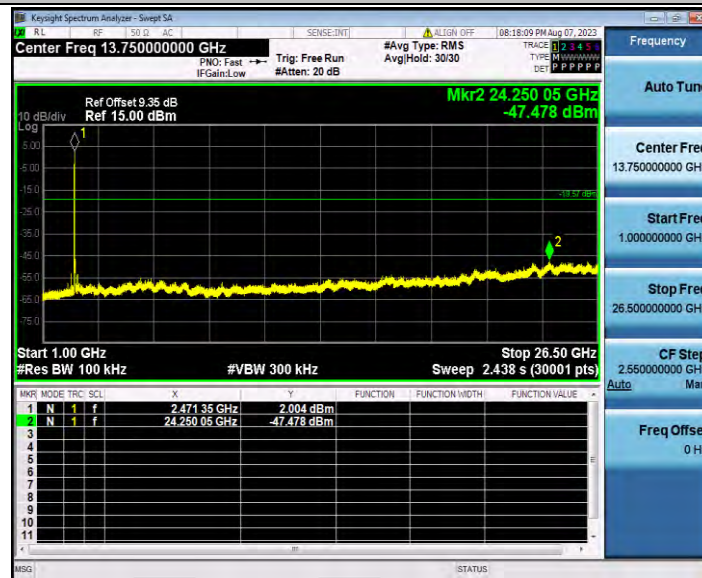
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2462_0~Reference



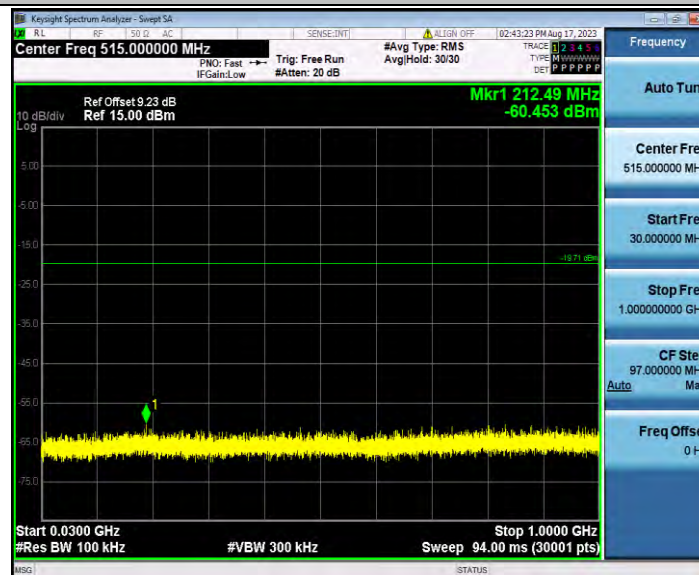
11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



11N40SISO_Ant1_2422_0~Reference



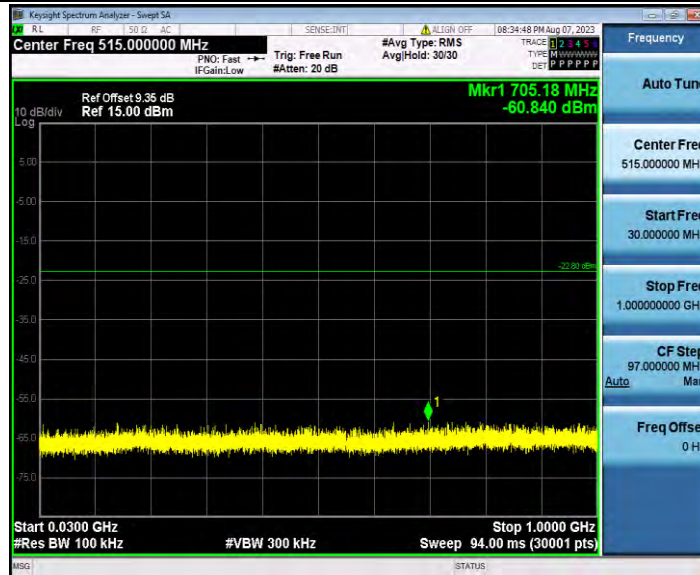
11N40SISO_Ant1_2422_30~1000



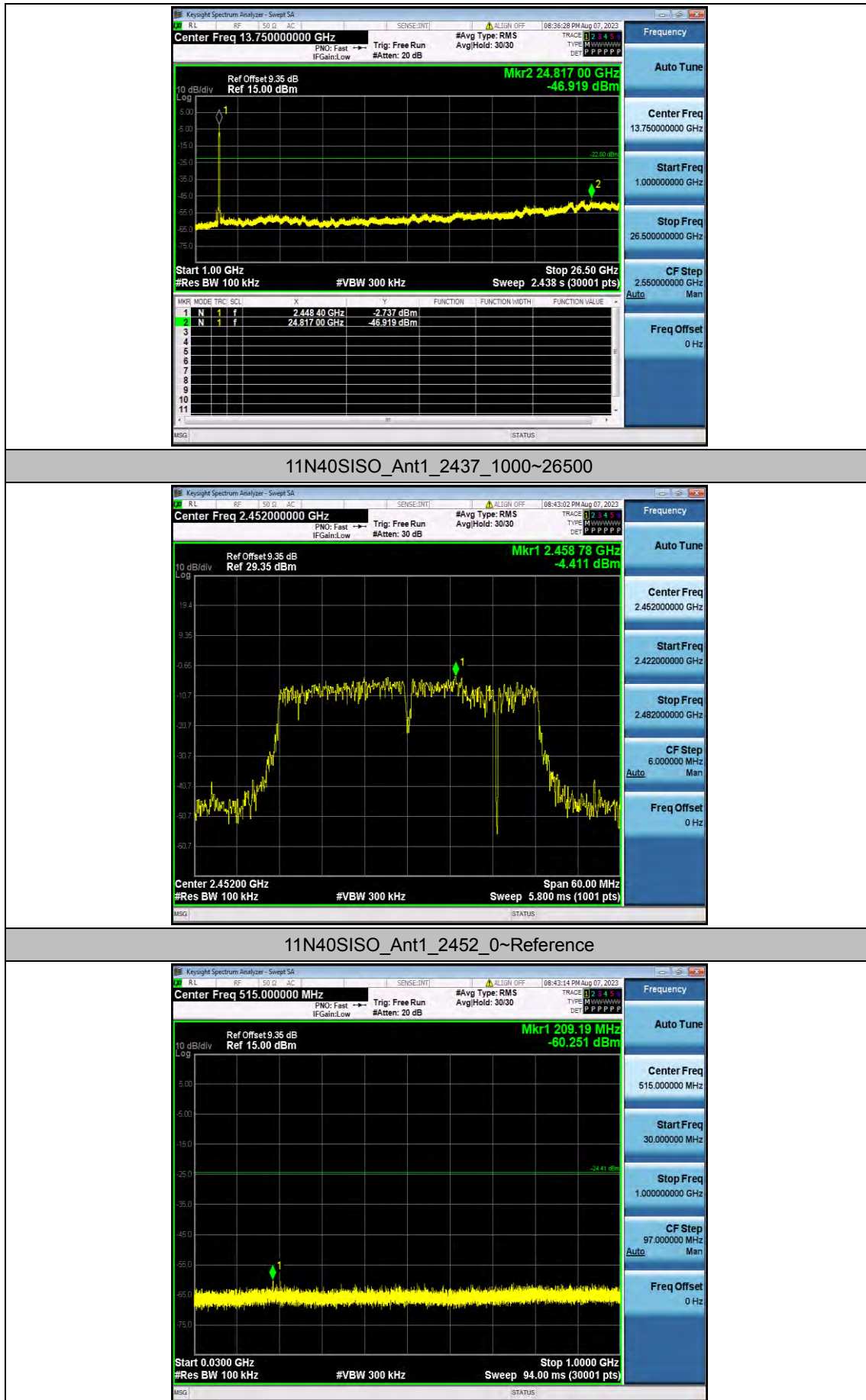
11N40SISO_Ant1_2422_1000~26500

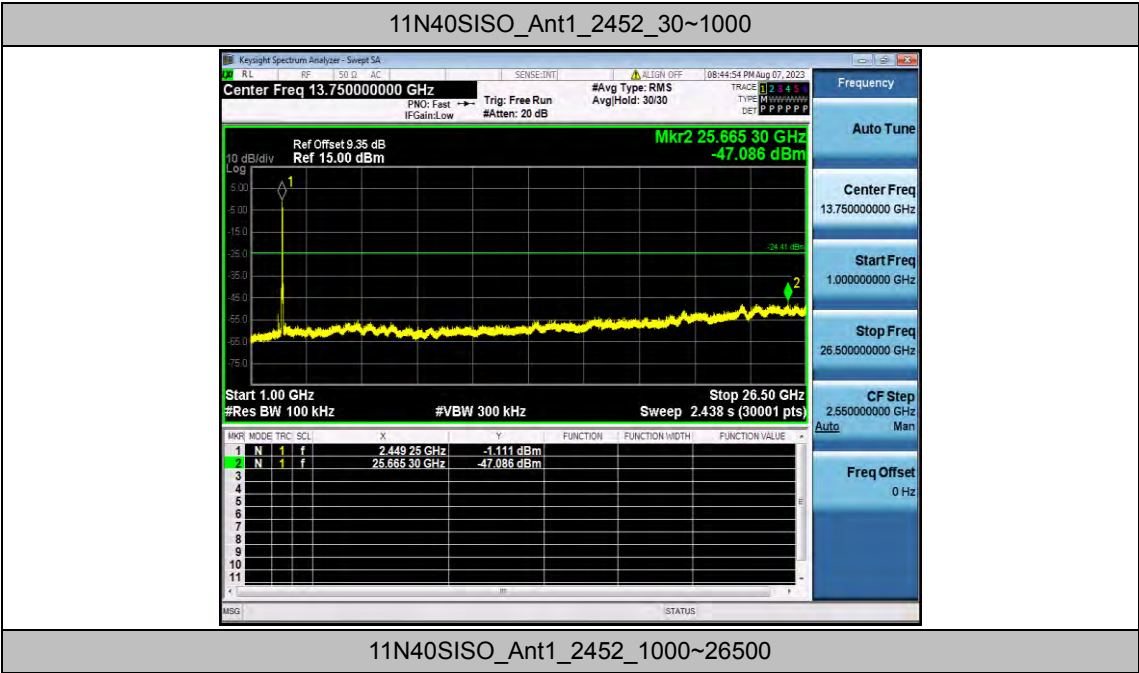


11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000





Appendix B.7: Emissions in Restricted Bands

Test Result

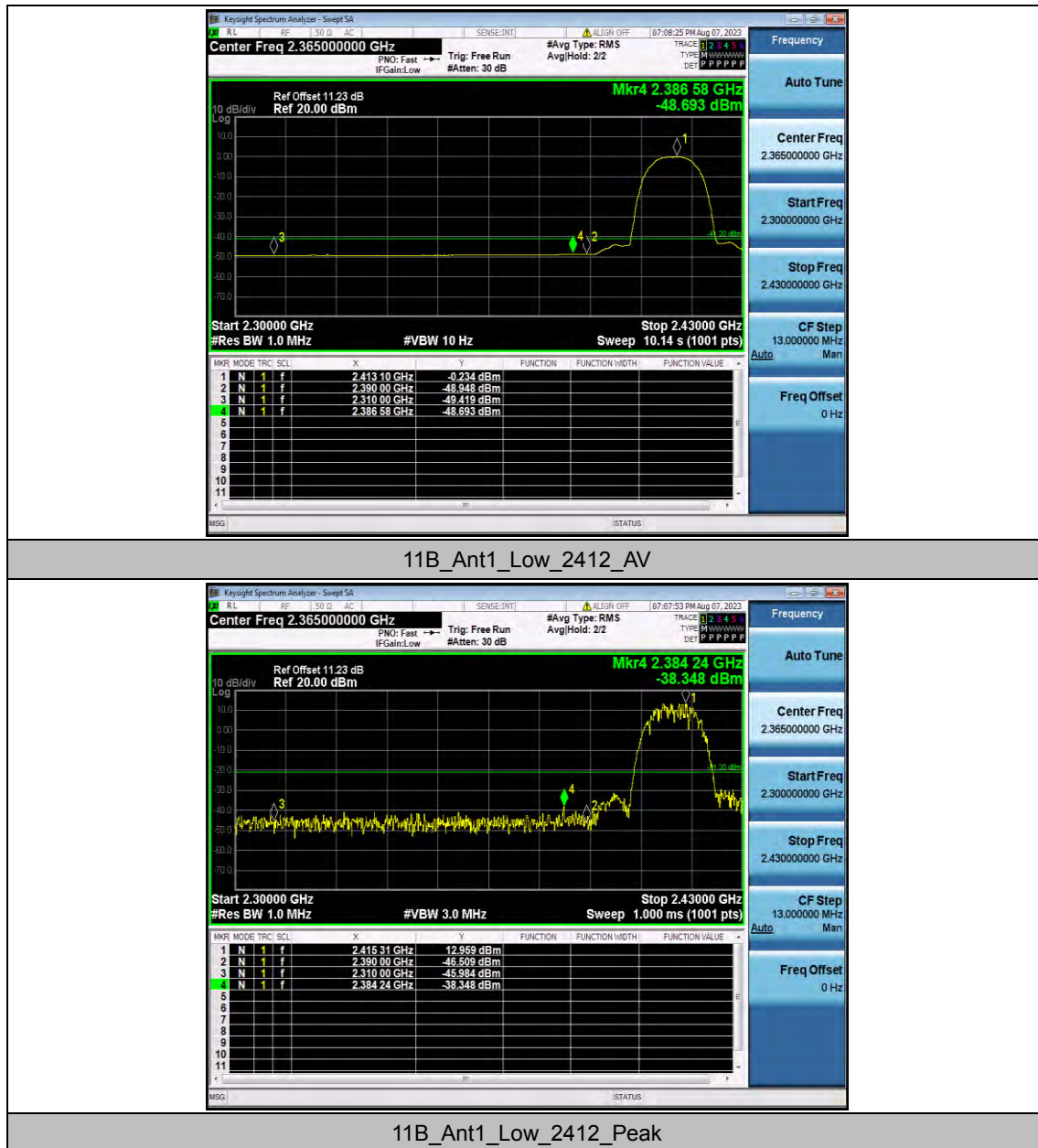
Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.42	≤-41.20	45.78	≤54	PASS
				AV	2386.580	-48.69	≤-41.20	46.51	≤54	PASS
				AV	2390.000	-48.95	≤-41.20	46.25	≤54	PASS
				Peak	2310.000	-45.98	≤-21.20	49.22	≤74	PASS
				Peak	2384.240	-38.35	≤-21.20	56.85	≤74	PASS
				Peak	2390.000	-46.51	≤-21.20	48.69	≤74	PASS
		High	2462	AV	2483.500	-48.31	≤-41.20	46.89	≤54	PASS
				AV	2487.850	-48.02	≤-41.20	47.18	≤54	PASS
				AV	2500.000	-48.18	≤-41.20	47.02	≤54	PASS
				Peak	2483.500	-45.65	≤-21.20	49.55	≤74	PASS
				Peak	2492.140	-40.36	≤-21.20	54.84	≤74	PASS
				Peak	2500.000	-40.54	≤-21.20	54.66	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.4	≤-41.20	45.80	≤54	PASS
				AV	2389.830	-47.71	≤-41.20	47.49	≤54	PASS
				AV	2390.000	-47.75	≤-41.20	47.45	≤54	PASS
				Peak	2310.000	-47.13	≤-21.20	48.07	≤74	PASS
				Peak	2387.880	-38.48	≤-21.20	56.72	≤74	PASS
				Peak	2390.000	-39.67	≤-21.20	55.53	≤74	PASS
		High	2462	AV	2483.500	-48.31	≤-41.20	46.89	≤54	PASS
				AV	2488.070	-48.03	≤-41.20	47.17	≤54	PASS
				AV	2500.000	-48.2	≤-41.20	47.00	≤54	PASS
				Peak	2483.500	-45.08	≤-21.20	50.12	≤74	PASS
				Peak	2492.030	-40.7	≤-21.20	54.50	≤74	PASS
				Peak	2500.000	-46.7	≤-21.20	48.50	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.4	≤-41.20	45.80	≤54	PASS
				AV	2389.960	-48.12	≤-41.20	47.08	≤54	PASS
				AV	2390.000	-48.12	≤-41.20	47.08	≤54	PASS
				Peak	2310.000	-46.75	≤-21.20	48.45	≤74	PASS
				Peak	2337.310	-40.03	≤-21.20	55.17	≤74	PASS
				Peak	2390.000	-44.58	≤-21.20	50.62	≤74	PASS
		High	2462	AV	2483.500	-47.89	≤-41.20	47.31	≤54	PASS
				AV	2483.560	-47.9	≤-41.20	47.30	≤54	PASS
				AV	2500.000	-48.63	≤-41.20	46.57	≤54	PASS
				Peak	2483.500	-41.26	≤-21.20	53.94	≤74	PASS
				Peak	2483.670	-36.09	≤-21.20	59.11	≤74	PASS
				Peak	2500.000	-43.84	≤-21.20	51.36	≤74	PASS

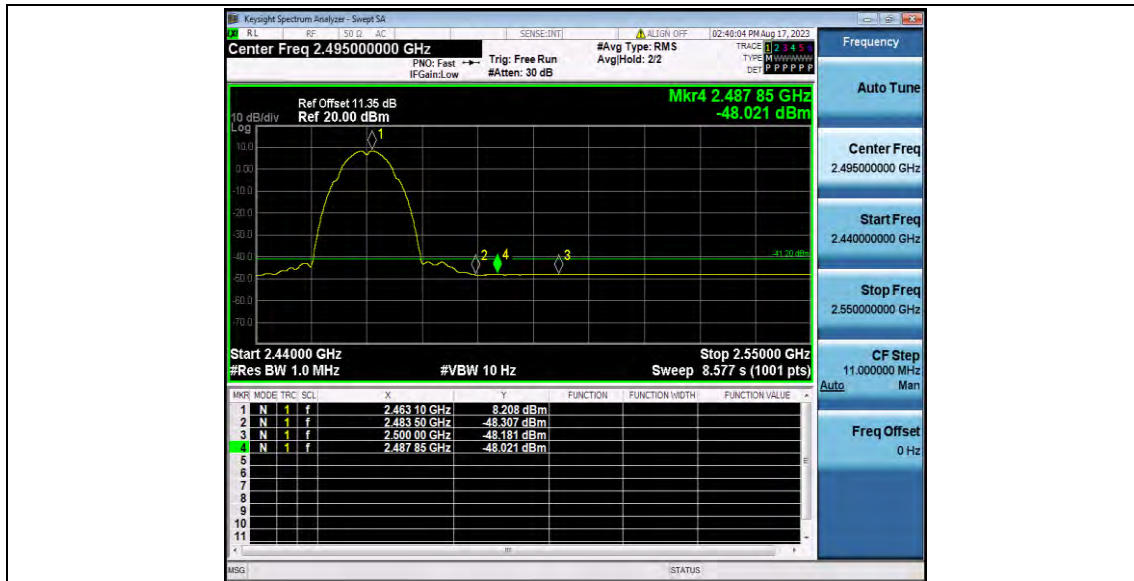
11N40SIS O	Ant1	Low	2422	AV	2310.000	-49.02	≤ -41.20	46.18	≤ 54	PASS
				AV	2389.960	-45.32	≤ -41.20	49.88	≤ 54	PASS
				AV	2390.000	-45.32	≤ -41.20	49.88	≤ 54	PASS
				Peak	2310.000	-49.7	≤ -21.20	45.50	≤ 74	PASS
				Peak	2386.580	-38.74	≤ -21.20	56.46	≤ 74	PASS
				Peak	2390.000	-42.06	≤ -21.20	53.14	≤ 74	PASS
		High	2452	AV	2483.500	-43.32	≤ -41.20	51.88	≤ 54	PASS
				AV	2484.000	-43.31	≤ -41.20	51.89	≤ 54	PASS
				AV	2500.000	-47.12	≤ -41.20	48.08	≤ 54	PASS
				Peak	2483.500	-44.01	≤ -21.20	51.19	≤ 74	PASS
				Peak	2485.320	-26.01	≤ -21.20	69.19	≤ 74	PASS
				Peak	2500.000	-46.52	≤ -21.20	48.68	≤ 74	PASS

Note:

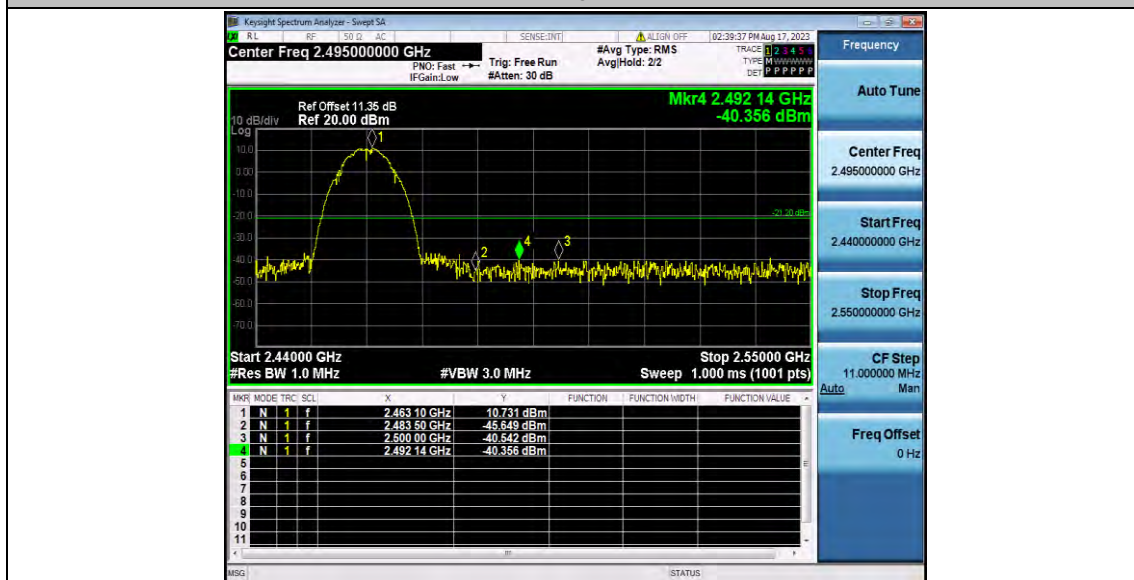
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

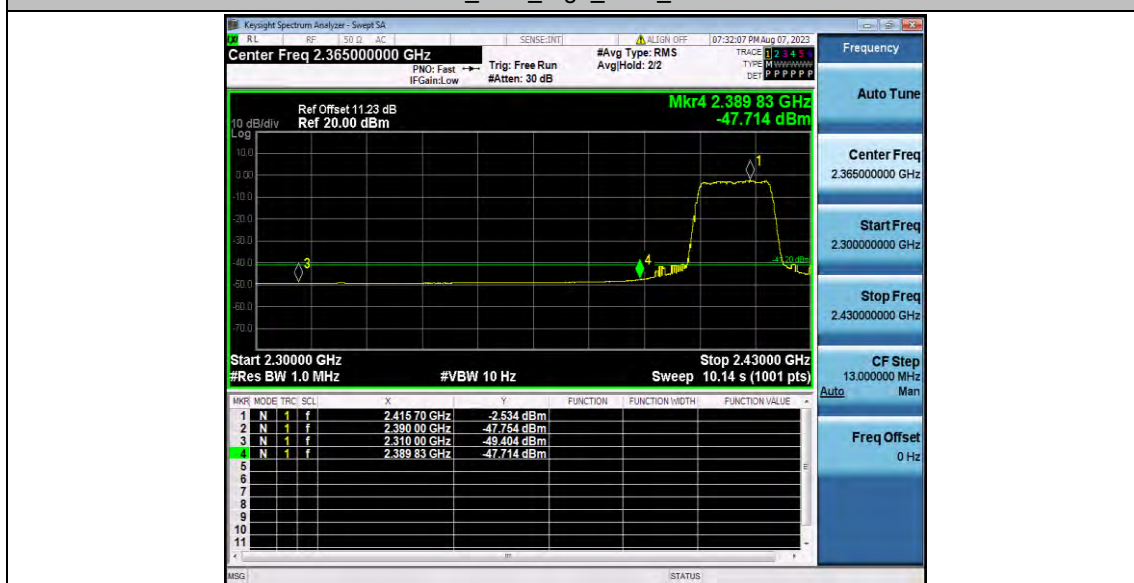




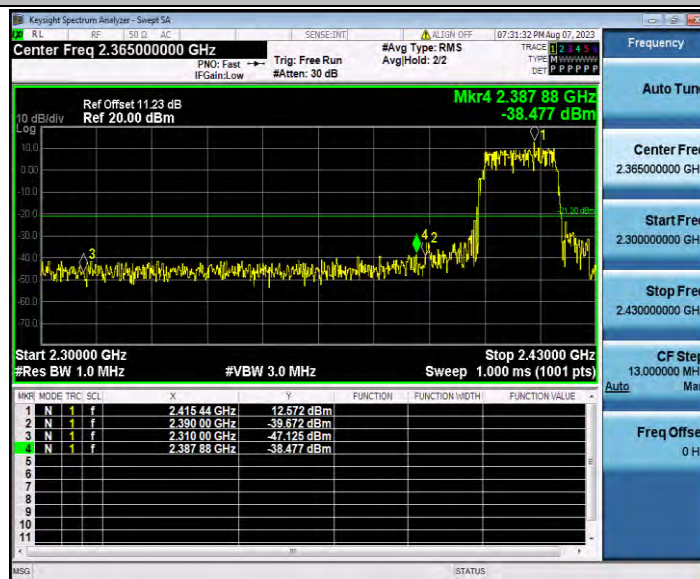
11B_Ant1_High_2462_AV



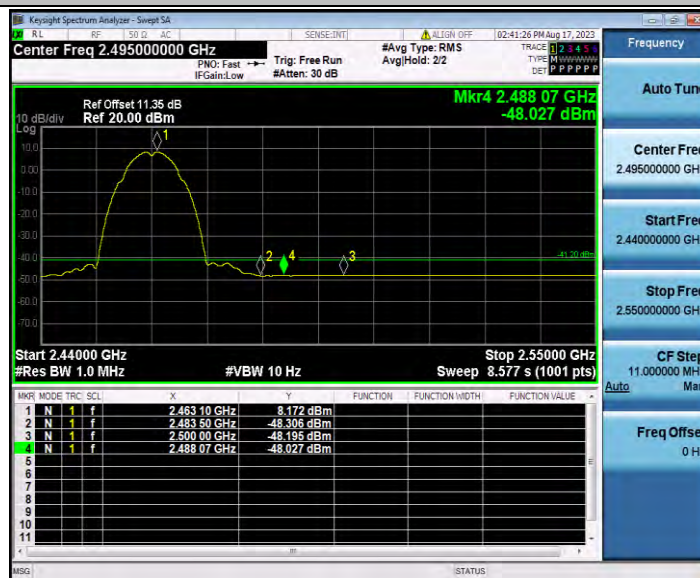
11B_Ant1_High_2462_Peak



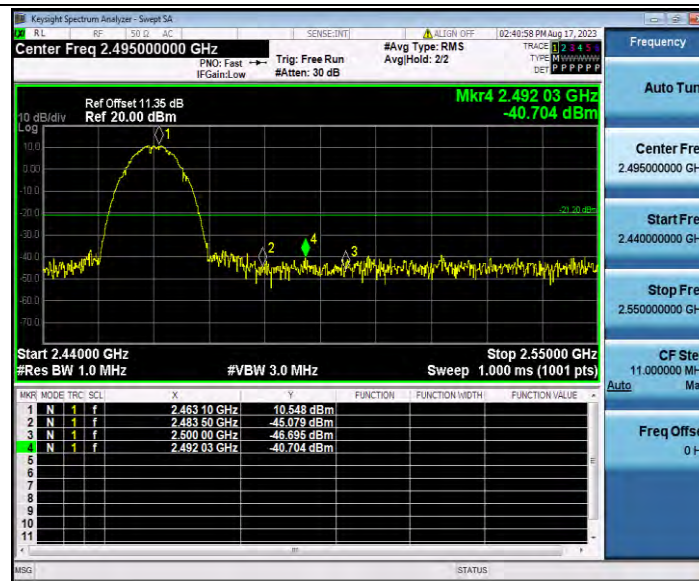
11G_Ant1_Low_2412_AV



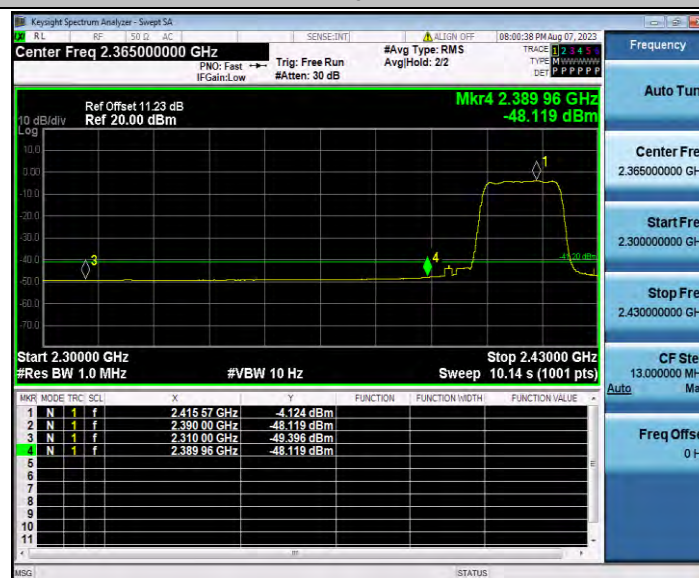
11G_Ant1_Low_2412_Peak



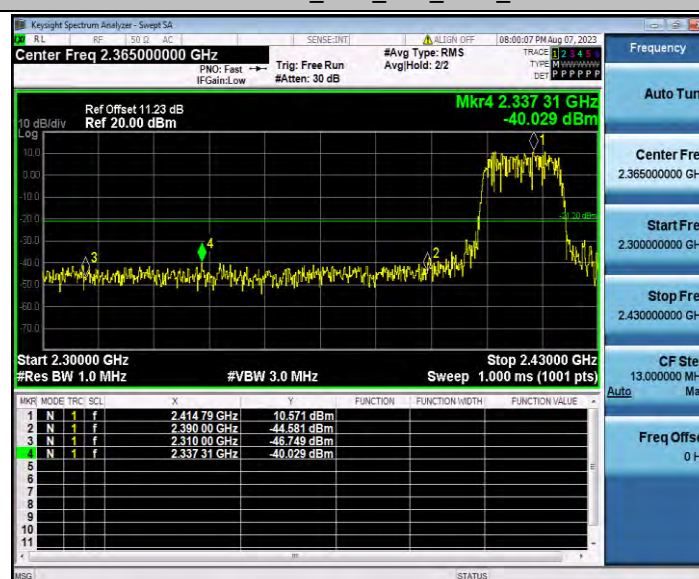
11G_Ant1_High_2462_AV



11G_Ant1_High_2462_Peak



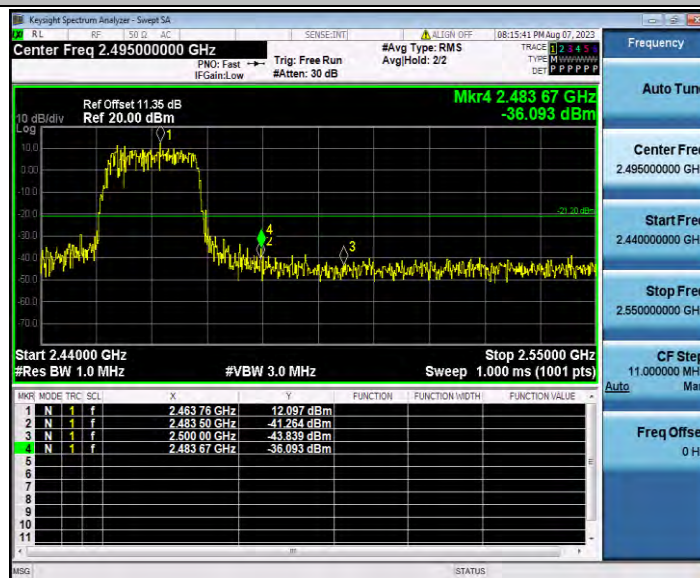
11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak

