

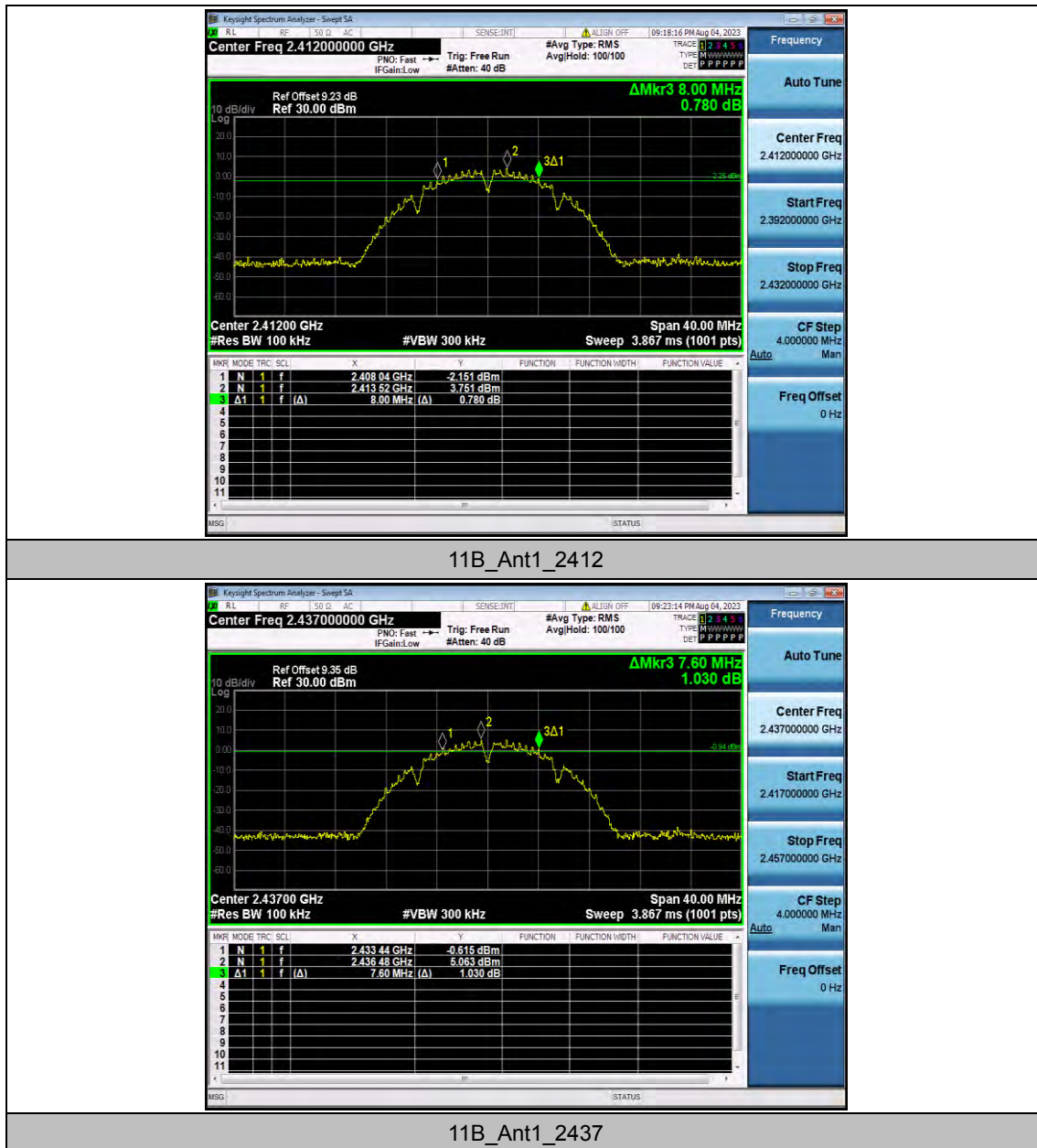
Case No. : <u>GTS20230630003-1-6</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.8.4</u>	Test Engineer: <u>Evan Ouyang</u>

Appendix A.1: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.000	2408.040	2416.040	0.5	PASS
		2437	7.600	2433.440	2441.040	0.5	PASS
		2462	8.040	2457.960	2466.000	0.5	PASS
11G	Ant1	2412	15.320	2404.440	2419.760	0.5	PASS
		2437	15.040	2430.120	2445.160	0.5	PASS
		2462	15.520	2454.240	2469.760	0.5	PASS
11N20SISO	Ant1	2412	12.640	2406.920	2419.560	0.5	PASS
		2437	12.840	2431.360	2444.200	0.5	PASS
		2462	15.040	2454.520	2469.560	0.5	PASS
11N40SISO	Ant1	2422	33.840	2405.680	2439.520	0.5	PASS
		2437	33.920	2420.680	2454.600	0.5	PASS
		2452	35.040	2434.480	2469.520	0.5	PASS

Test Graphs





11G_Ant1_2437



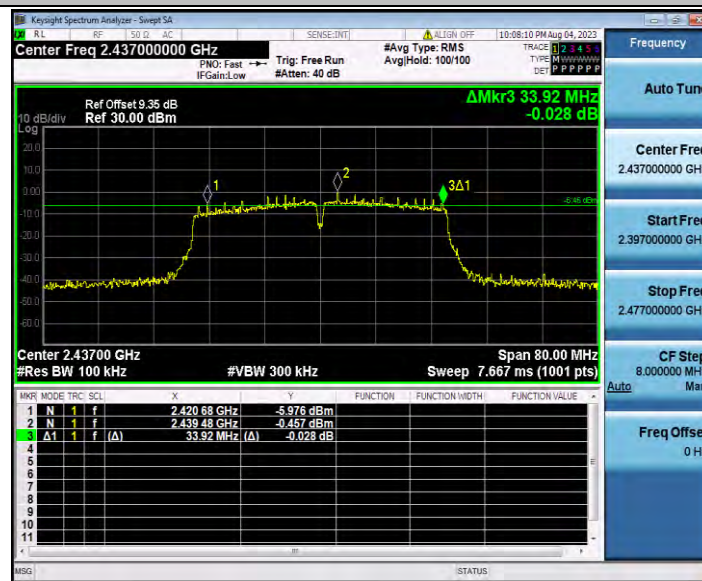
11G_Ant1_2462



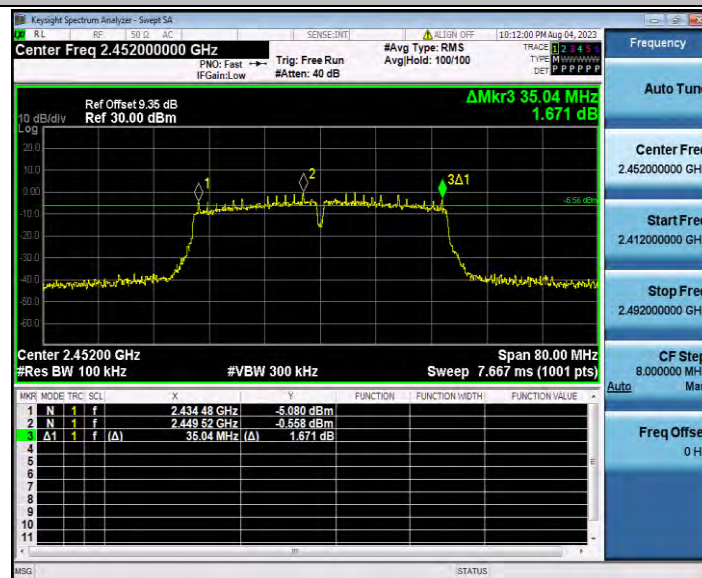
11N20SISO_Ant1_2412



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



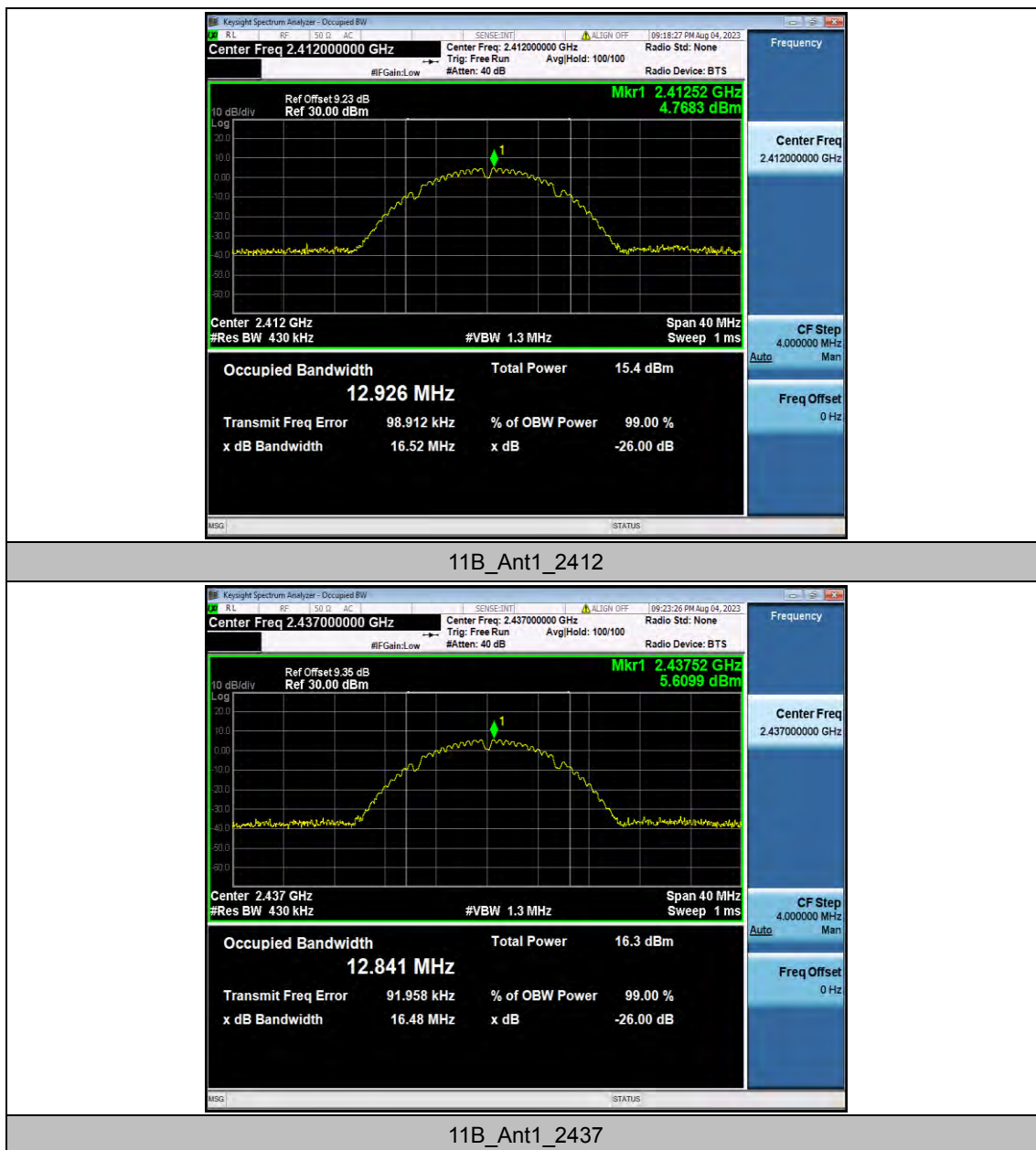
11N40SISO_Ant1_2452

Appendix A.2: Occupied Channel Bandwidth

Test Result

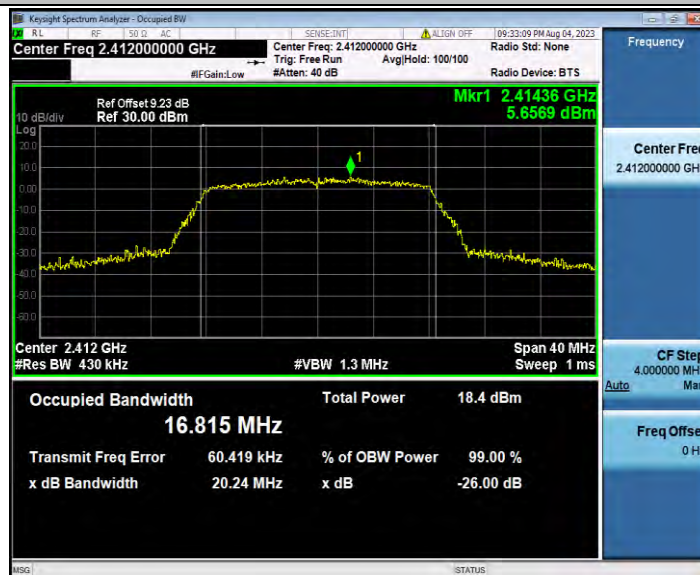
Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.926	2405.636	2418.562	---	---
		2437	12.841	2430.671	2443.512	---	---
		2462	12.837	2455.626	2468.463	---	---
11G	Ant1	2412	16.815	2403.653	2420.468	---	---
		2437	16.751	2428.715	2445.466	---	---
		2462	16.771	2453.676	2470.447	---	---
11N20SISO	Ant1	2412	17.777	2403.175	2420.952	---	---
		2437	17.799	2428.169	2445.968	---	---
		2462	17.845	2453.139	2470.984	---	---
11N40SISO	Ant1	2422	36.142	2404.178	2440.320	---	---
		2437	36.133	2419.156	2455.289	---	---
		2452	36.189	2434.006	2470.195	---	---

Test Graphs





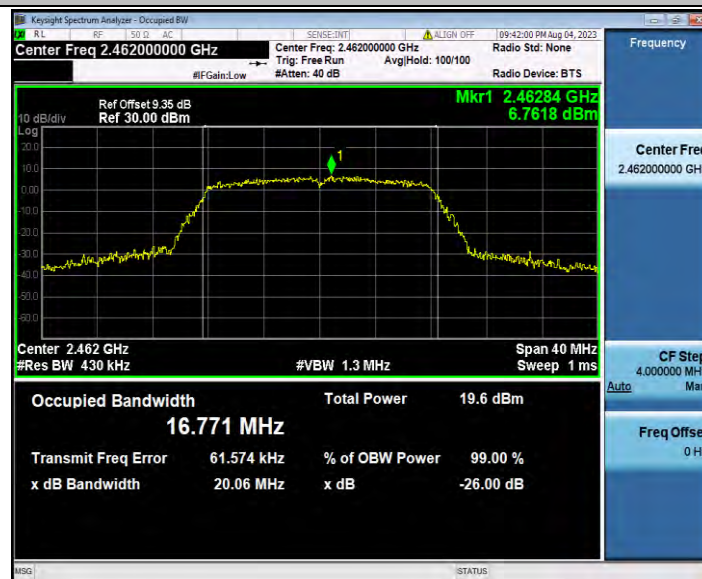
11B_Ant1_2462



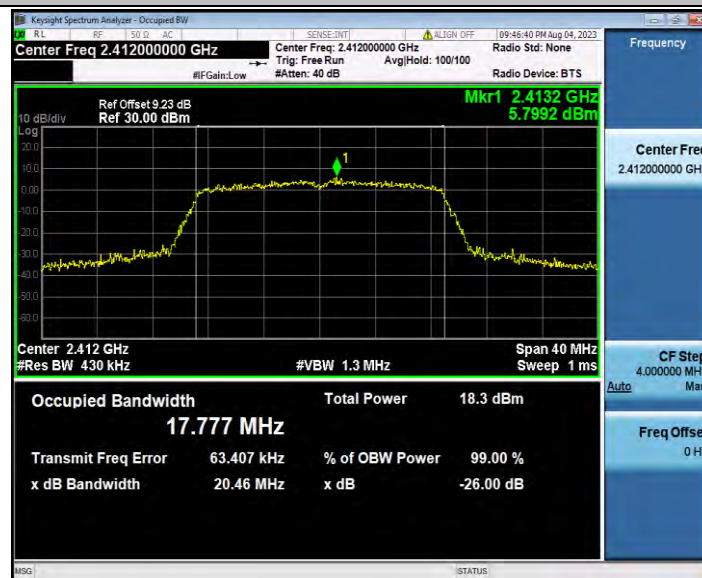
11G_Ant1_2412



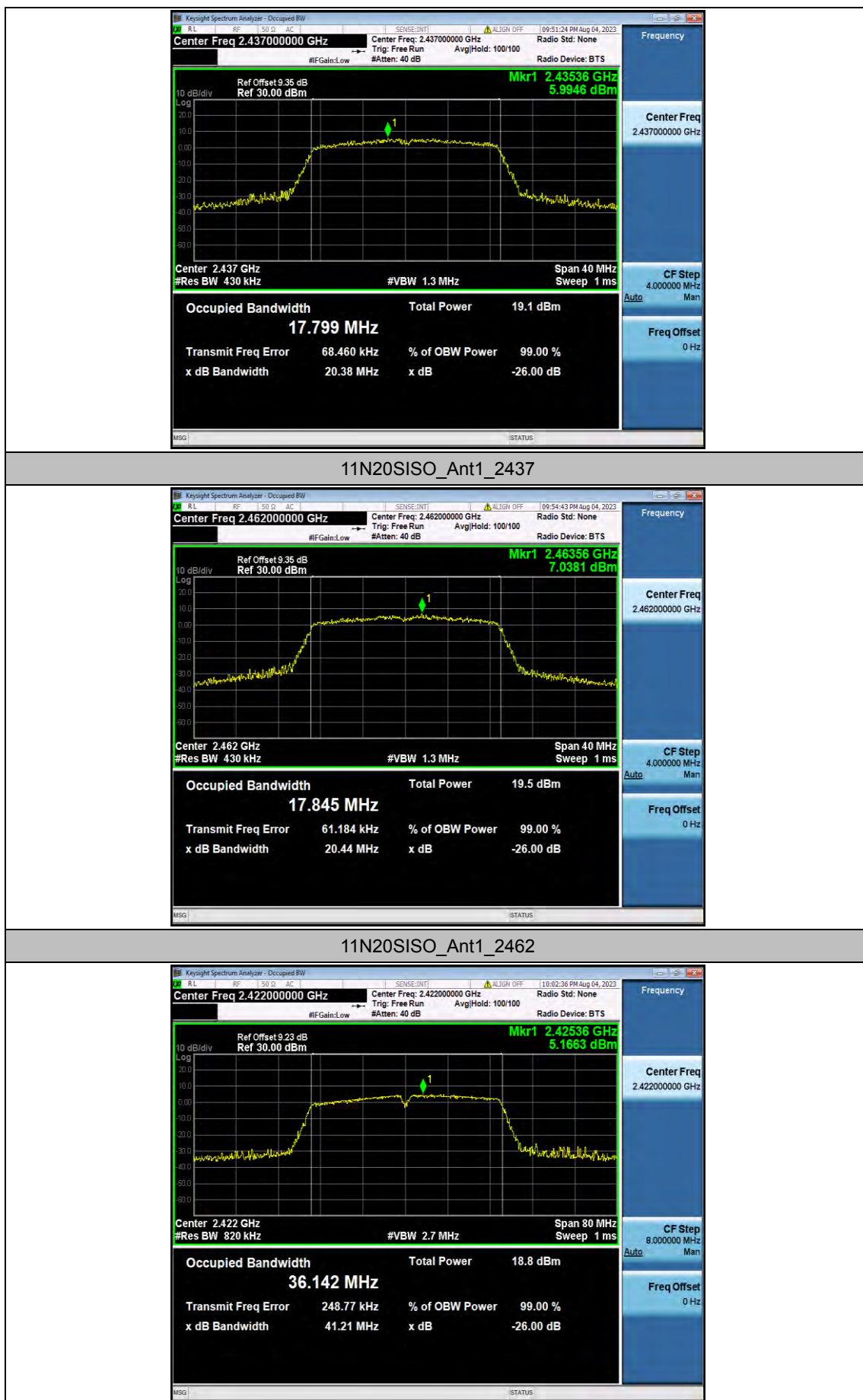
11G_Ant1_2437



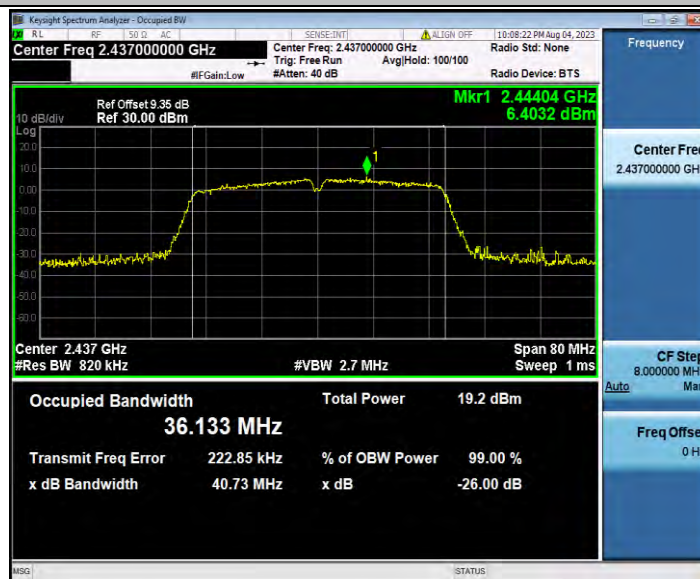
11G_Ant1_2462



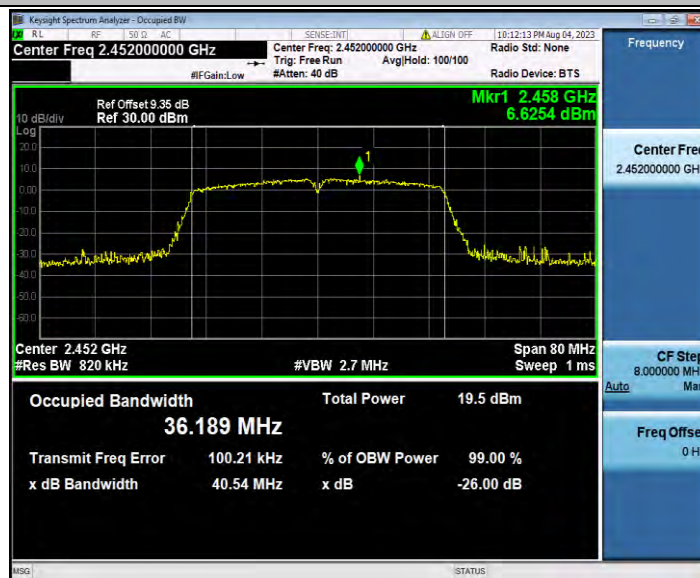
11N20SISO_Ant1_2412



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

Appendix A.3: Maximum conducted output power

Test Result Peak

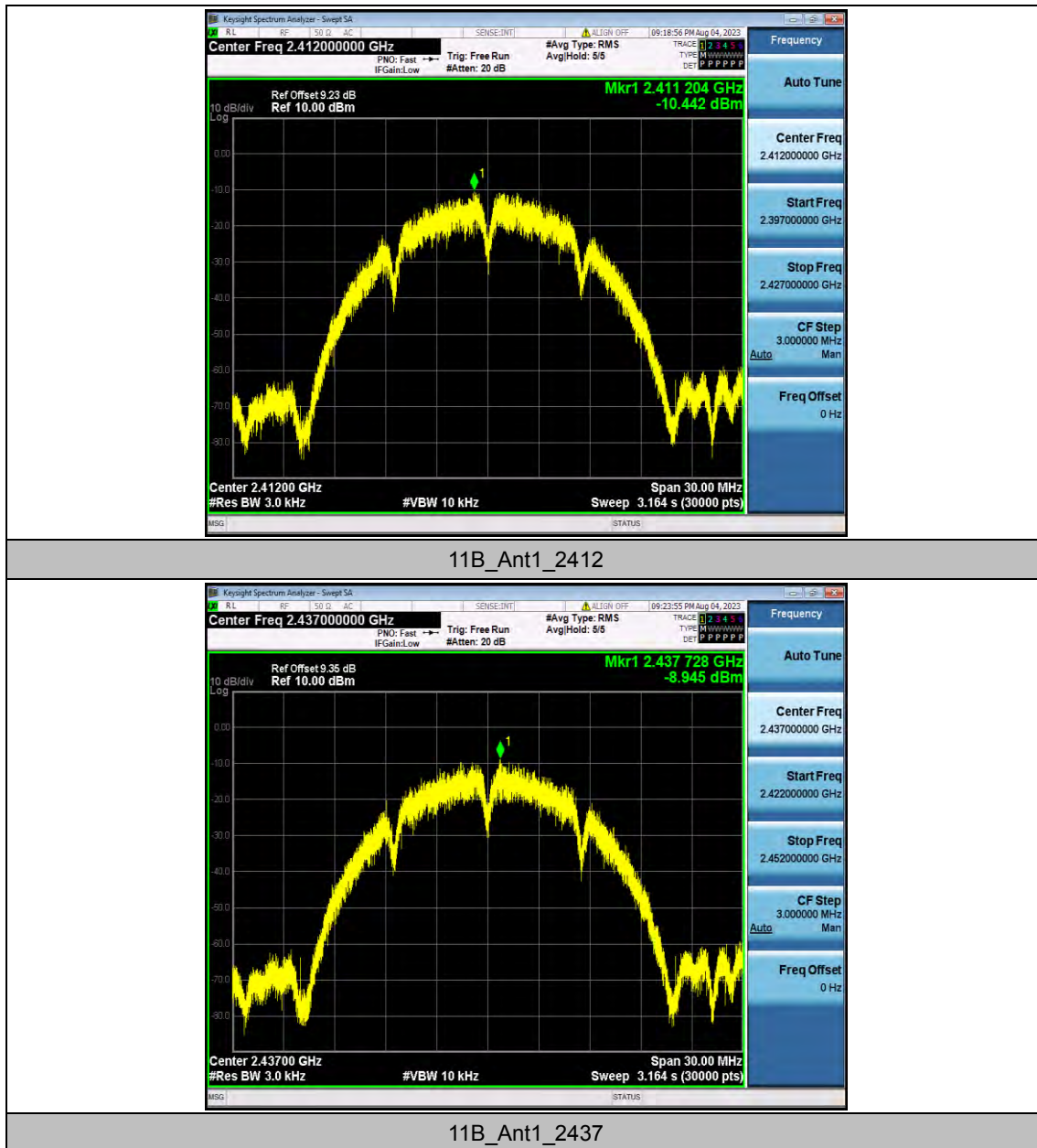
Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	15.45	≤30.00	PASS
		2437	16.31	≤30.00	PASS
		2462	16.71	≤30.00	PASS
11G	Ant1	2412	19.61	≤30.00	PASS
		2437	19.89	≤30.00	PASS
		2462	20.87	≤30.00	PASS
11N20SISO	Ant1	2412	19.43	≤30.00	PASS
		2437	20.26	≤30.00	PASS
		2462	20.67	≤30.00	PASS
11N40SISO	Ant1	2422	19.16	≤30.00	PASS
		2437	19.65	≤30.00	PASS
		2452	19.86	≤30.00	PASS

Appendix A.4: Maximum power spectral density

Test Result

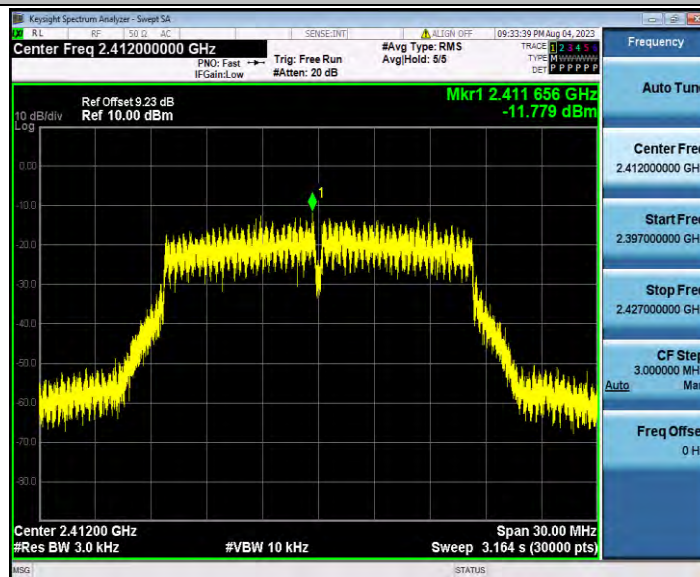
Test Mode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.44	≤8.00	PASS
		2437	-8.95	≤8.00	PASS
		2462	-8.76	≤8.00	PASS
11G	Ant1	2412	-11.78	≤8.00	PASS
		2437	-11.78	≤8.00	PASS
		2462	-10.54	≤8.00	PASS
11N20SISO	Ant1	2412	-12.45	≤8.00	PASS
		2437	-11.93	≤8.00	PASS
		2462	-10.95	≤8.00	PASS
11N40SISO	Ant1	2437	-15.1	≤8.00	PASS
		2452	-14.68	≤8.00	PASS

Test Graphs

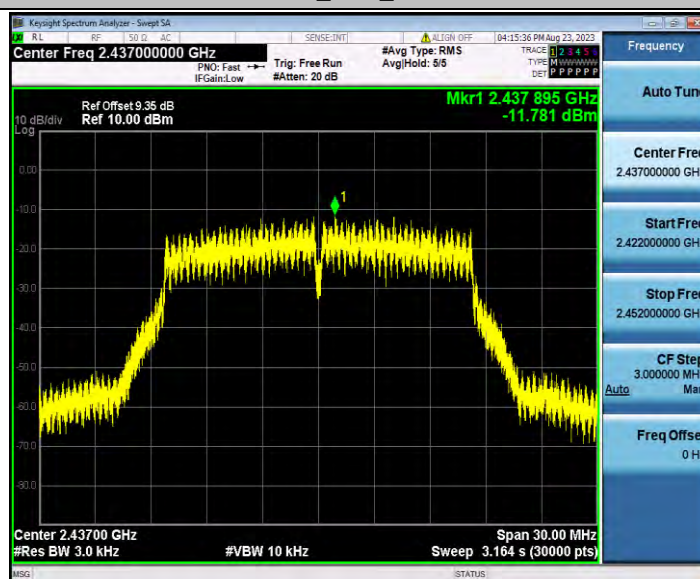




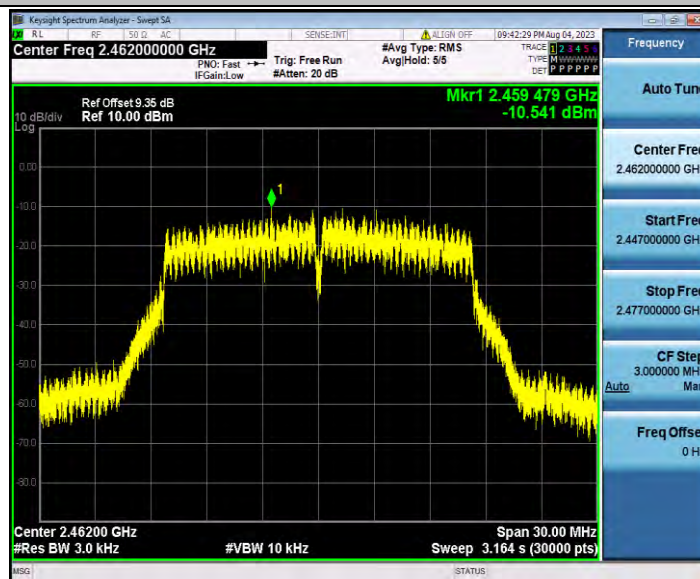
11B_Ant1_2462



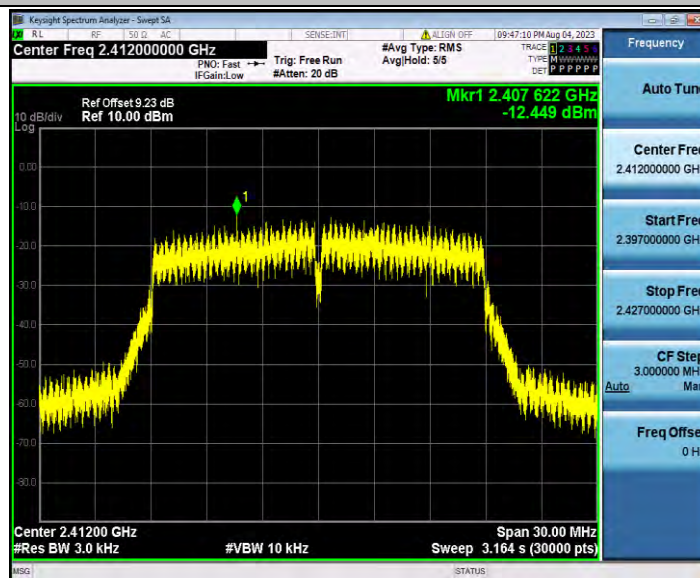
11G_Ant1_2412



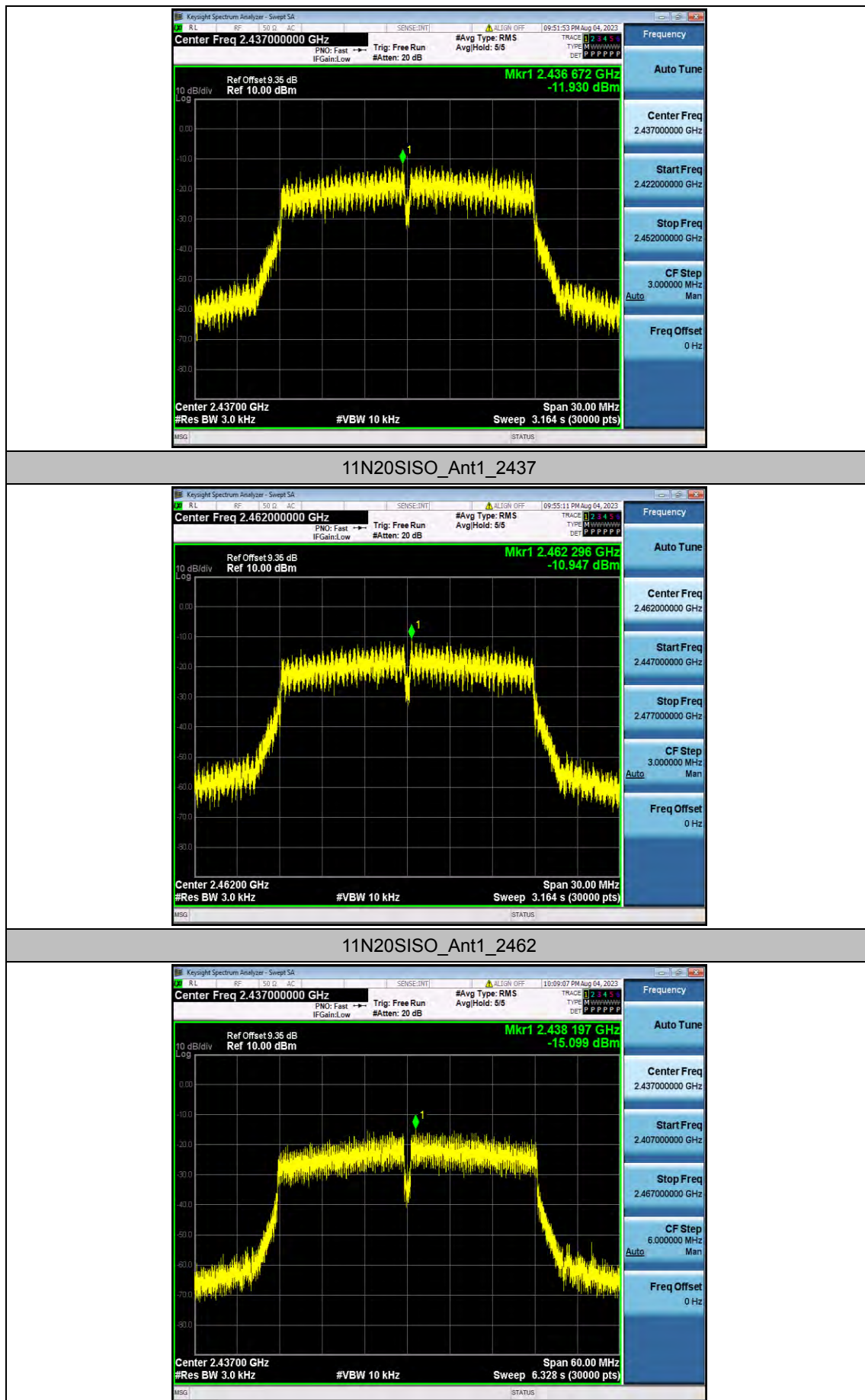
11G_Ant1_2437

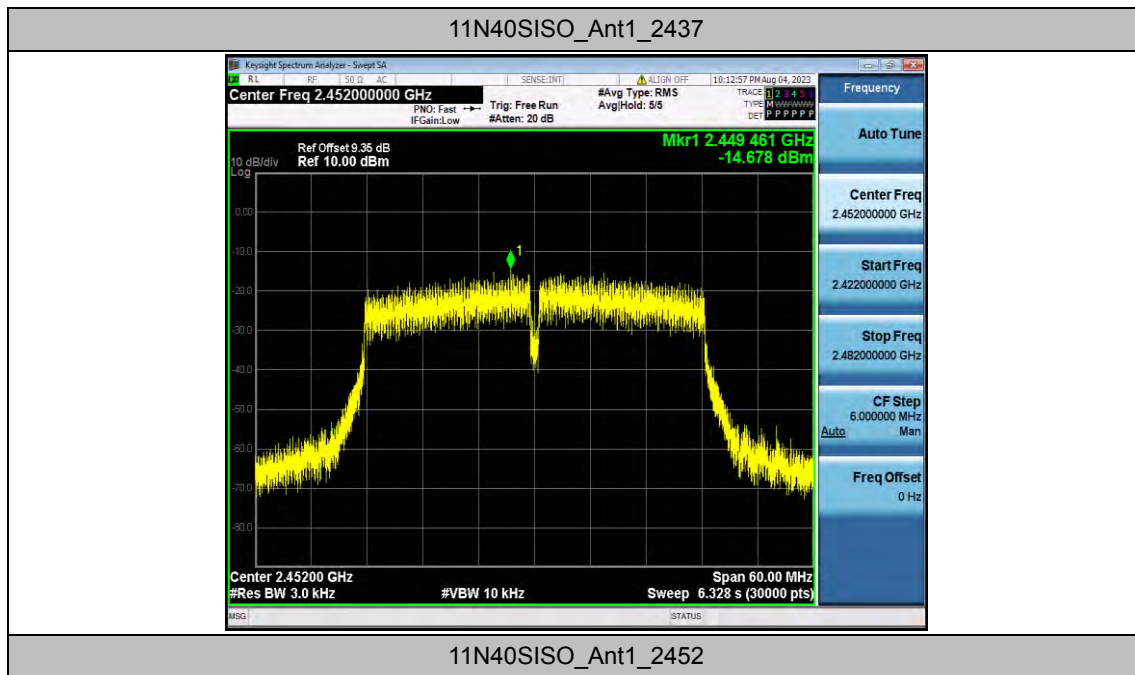


11G_Ant1_2462



11N20SISO_Ant1_2412



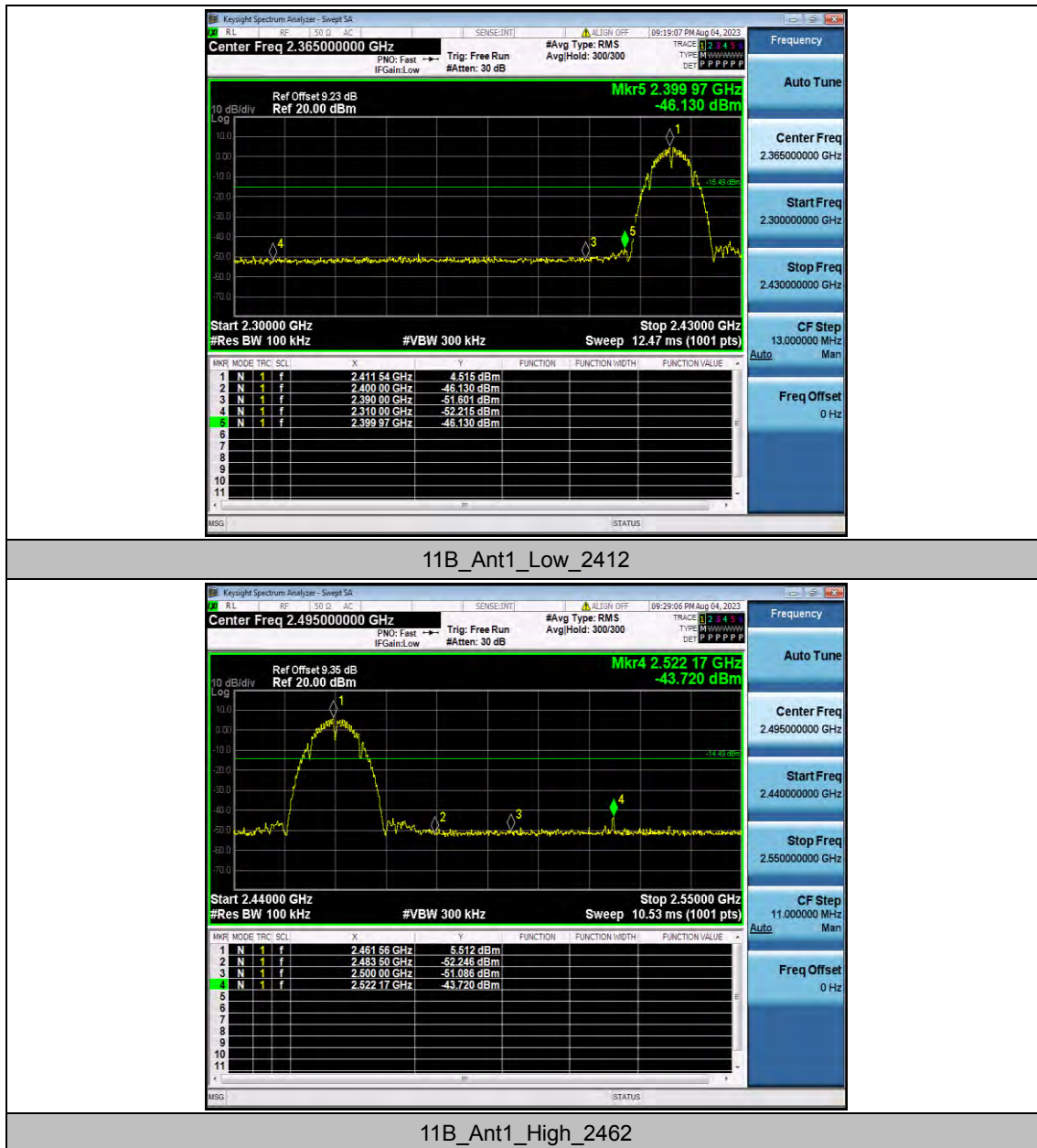


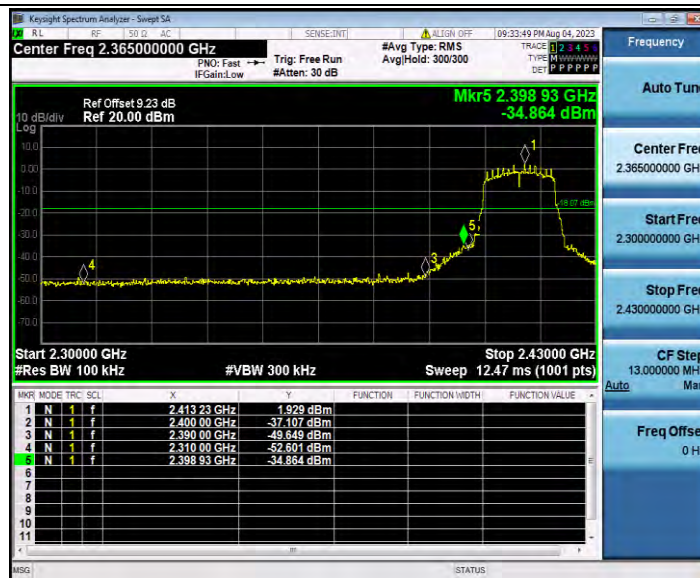
Appendix A.5: Band edge measurements

Test Result

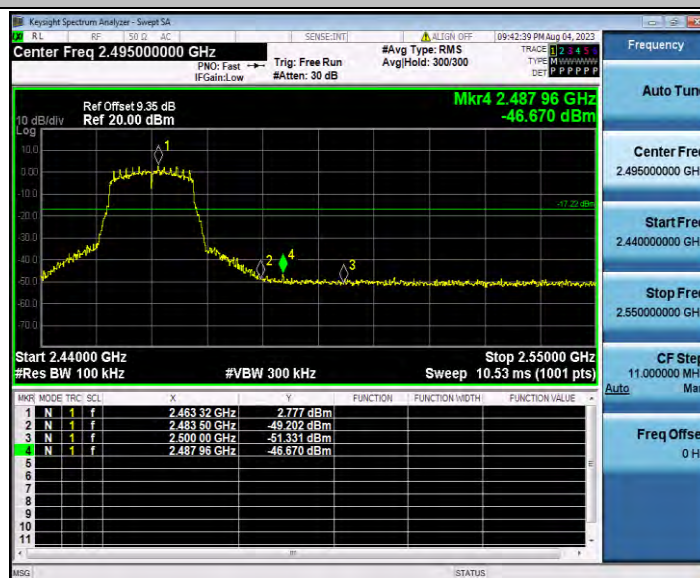
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.52	-46.13	≤ -15.49	PASS
		High	2462	5.51	-43.72	≤ -14.49	PASS
11G	Ant1	Low	2412	1.93	-34.86	≤ -18.07	PASS
		High	2462	2.78	-46.67	≤ -17.22	PASS
11N20SISO	Ant1	Low	2412	2.05	-34.26	≤ -17.95	PASS
		High	2462	3.78	-47.28	≤ -16.22	PASS
11N40SISO	Ant1	Low	2422	-1.17	-39.19	≤ -21.17	PASS
		High	2452	-0.44	-40.18	≤ -20.44	PASS

Test Graphs





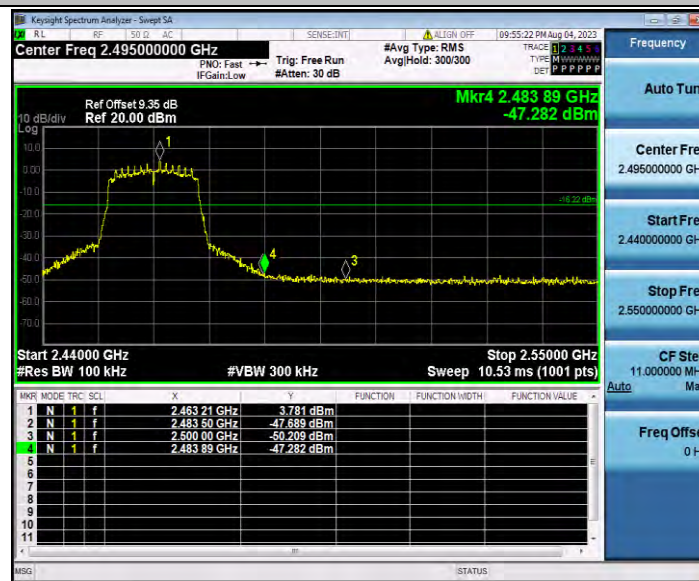
11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

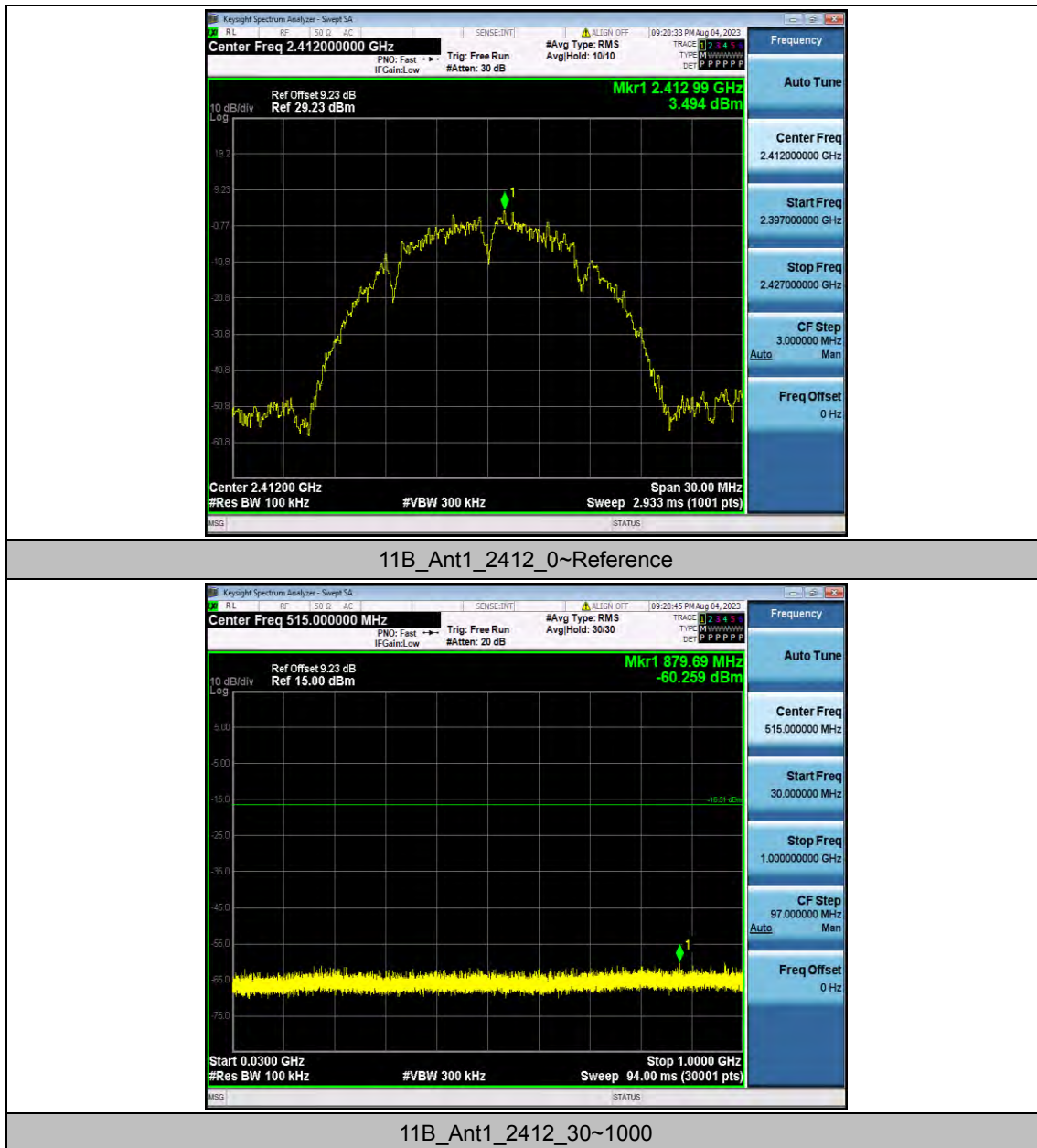


Appendix A.6: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	3.49	3.49	---	PASS
			30~1000	3.49	-60.26	≤ -16.51	PASS
			1000~26500	3.49	-46.94	≤ -16.51	PASS
		2437	Reference	4.13	4.13	---	PASS
			30~1000	4.13	-60.45	≤ -15.87	PASS
			1000~26500	4.13	-46.34	≤ -15.87	PASS
		2462	Reference	4.26	4.26	---	PASS
			30~1000	4.26	-60.16	≤ -15.74	PASS
			1000~26500	4.26	-46.69	≤ -15.74	PASS
11G	Ant1	2412	Reference	-1.26	-1.26	---	PASS
			30~1000	-1.26	-60.22	≤ -21.26	PASS
			1000~26500	-1.26	-47.55	≤ -21.26	PASS
		2437	Reference	-0.46	-0.46	---	PASS
			30~1000	-0.46	-60.23	≤ -20.46	PASS
			1000~26500	-0.46	-47.15	≤ -20.46	PASS
		2462	Reference	-0.25	-0.25	---	PASS
			30~1000	-0.25	-60.26	≤ -20.25	PASS
			1000~26500	-0.25	-47.01	≤ -20.25	PASS
11N20SISO	Ant1	2412	Reference	-0.49	-0.49	---	PASS
			30~1000	-0.49	-60.62	≤ -20.49	PASS
			1000~26500	-0.49	-47.55	≤ -20.49	PASS
		2437	Reference	2.38	2.38	---	PASS
			30~1000	2.38	-60.23	≤ -17.62	PASS
			1000~26500	2.38	-47.73	≤ -17.62	PASS
11N40SISO	Ant1	2422	Reference	-2.13	-2.13	---	PASS
			30~1000	-2.13	-59.8	≤ -22.13	PASS
			1000~26500	-2.13	-47.27	≤ -22.13	PASS
		2437	Reference	-1.69	-1.69	---	PASS
			30~1000	-1.69	-60.15	≤ -21.69	PASS
			1000~26500	-1.69	-46.66	≤ -21.69	PASS
		2452	Reference	-1.53	-1.53	---	PASS
			30~1000	-1.53	-60.53	≤ -21.53	PASS
			1000~26500	-1.53	-46.47	≤ -21.53	PASS

Test Graphs



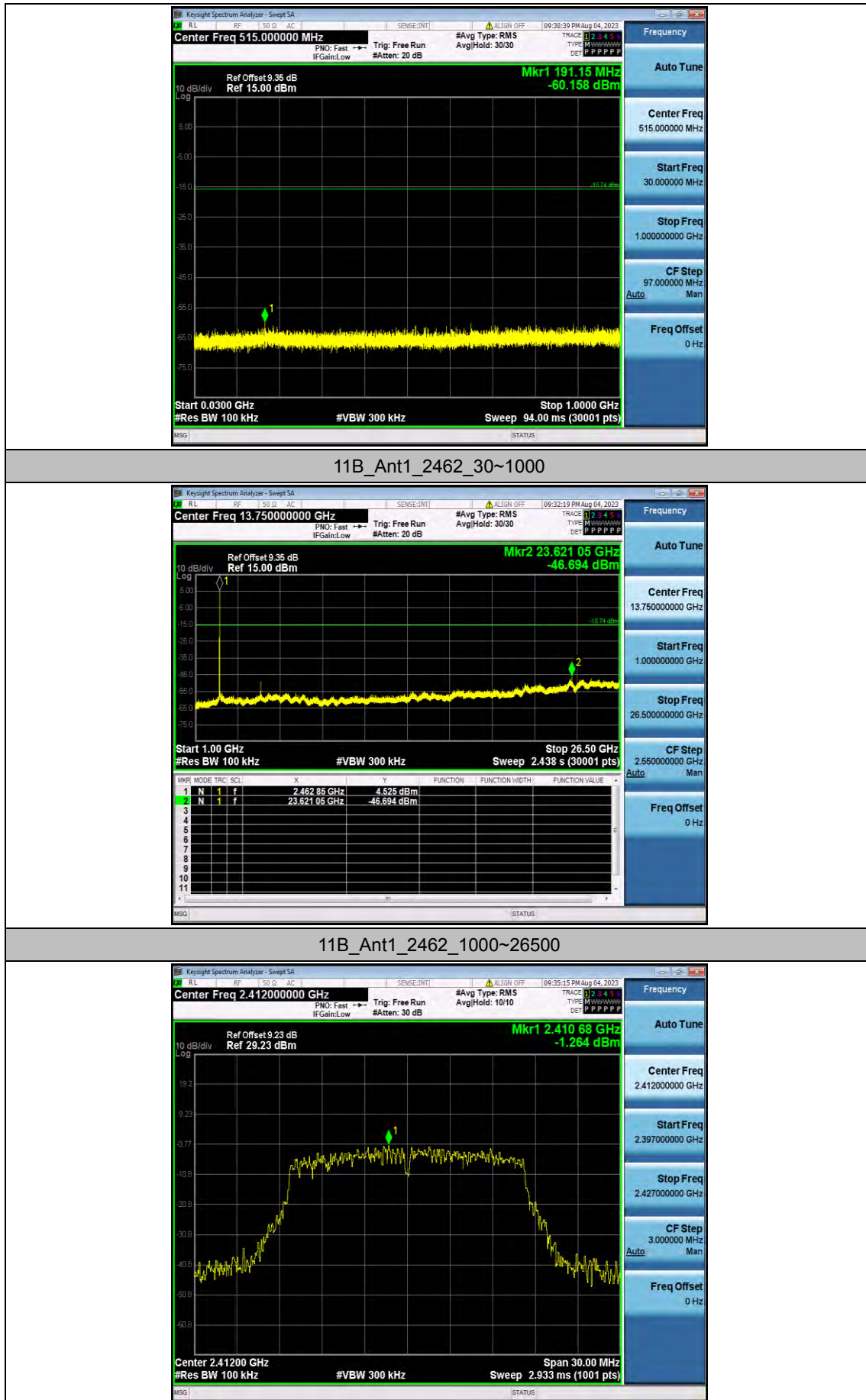
11B_Ant1_2437_30~1000



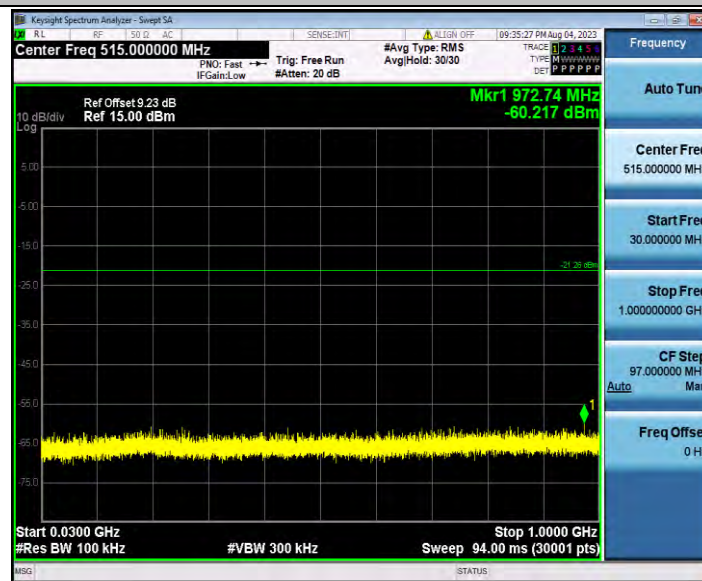
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11G_Ant1_2412_0~Reference



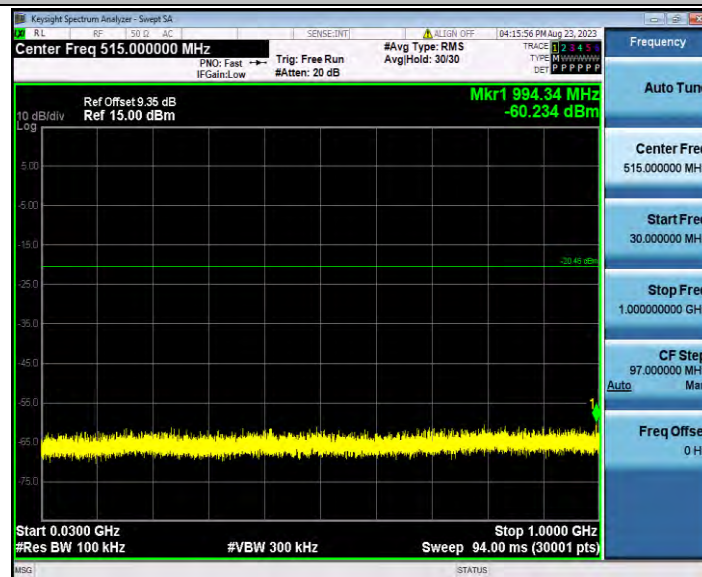
11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



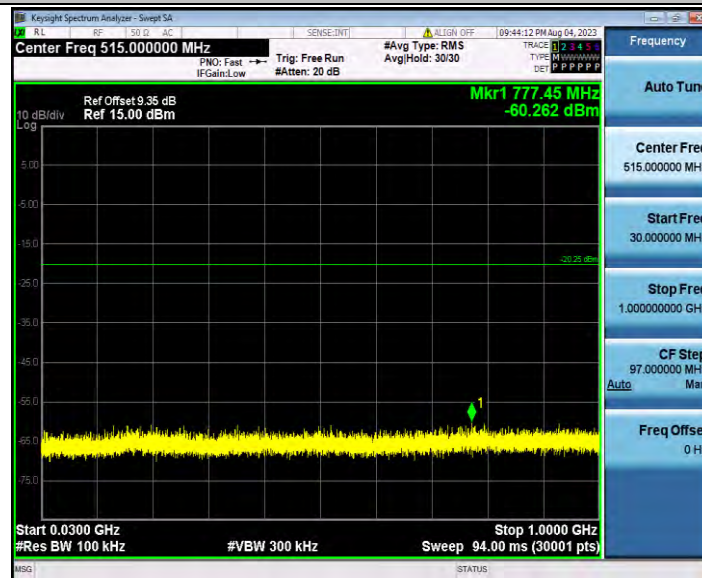
11G_Ant1_2437_30~1000



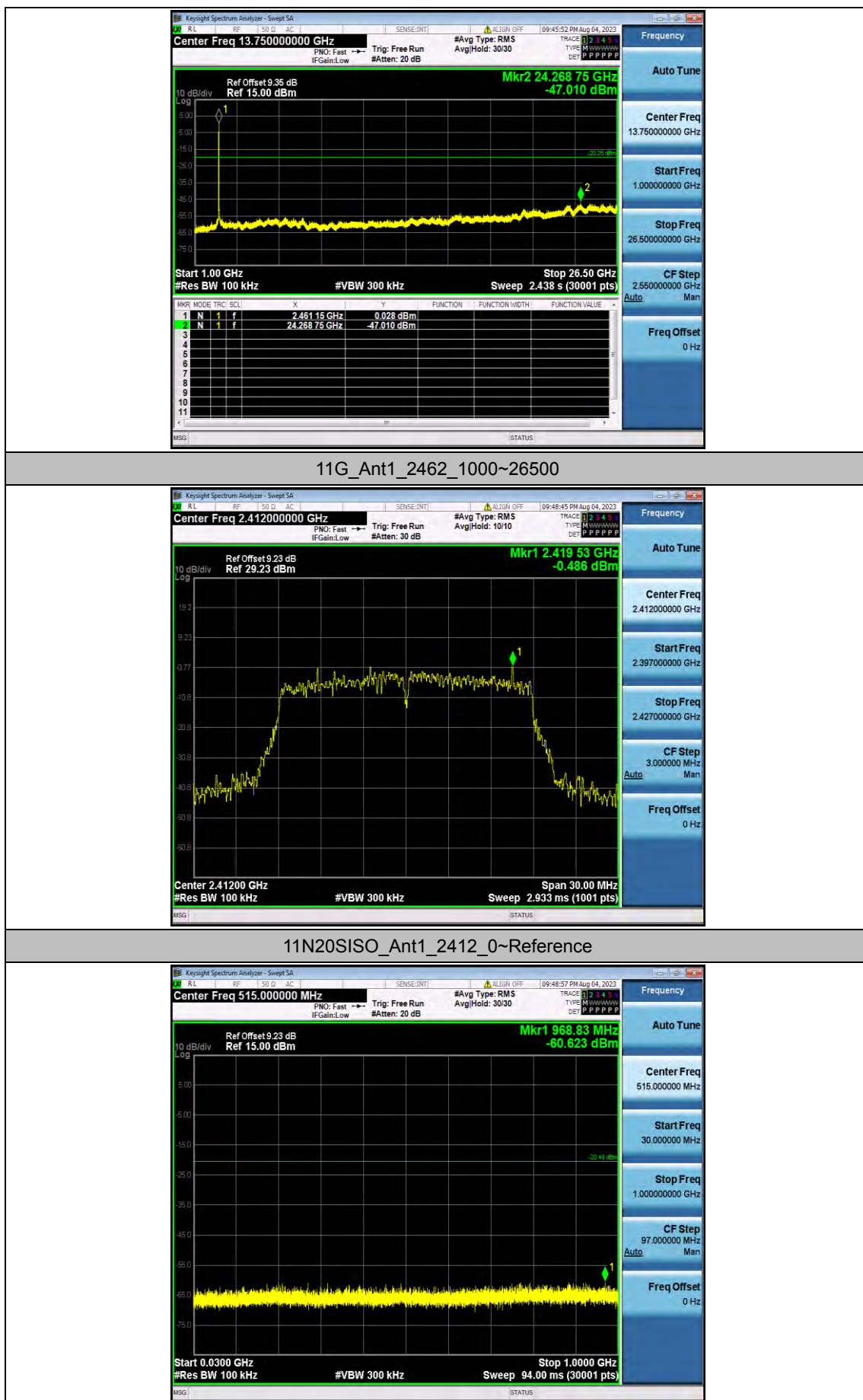
11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



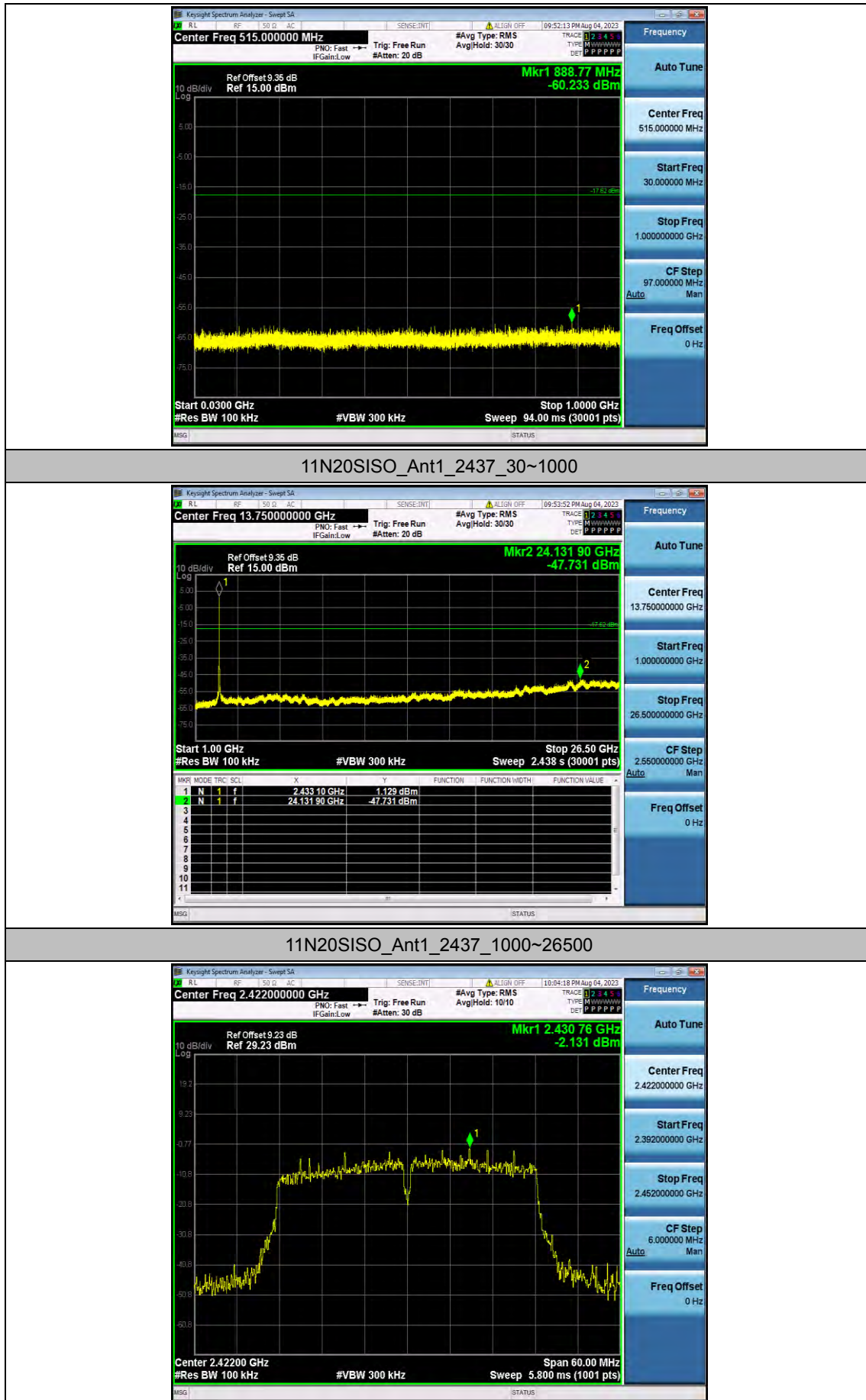
11N20SISO_Ant1_2412_30~1000



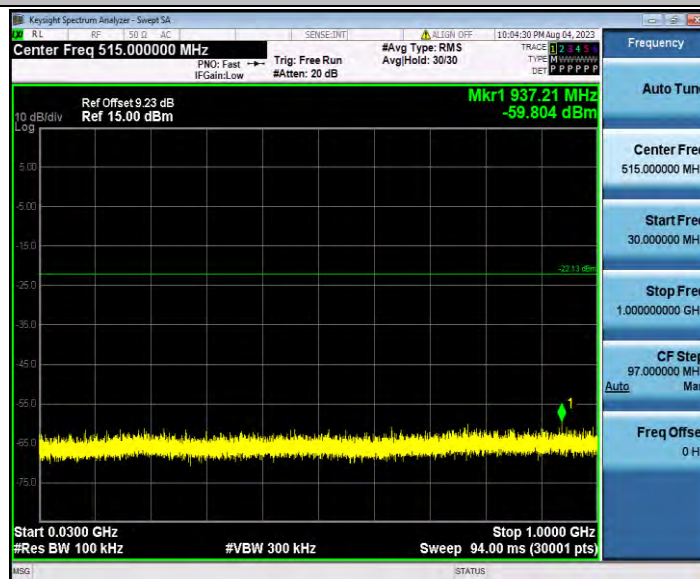
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



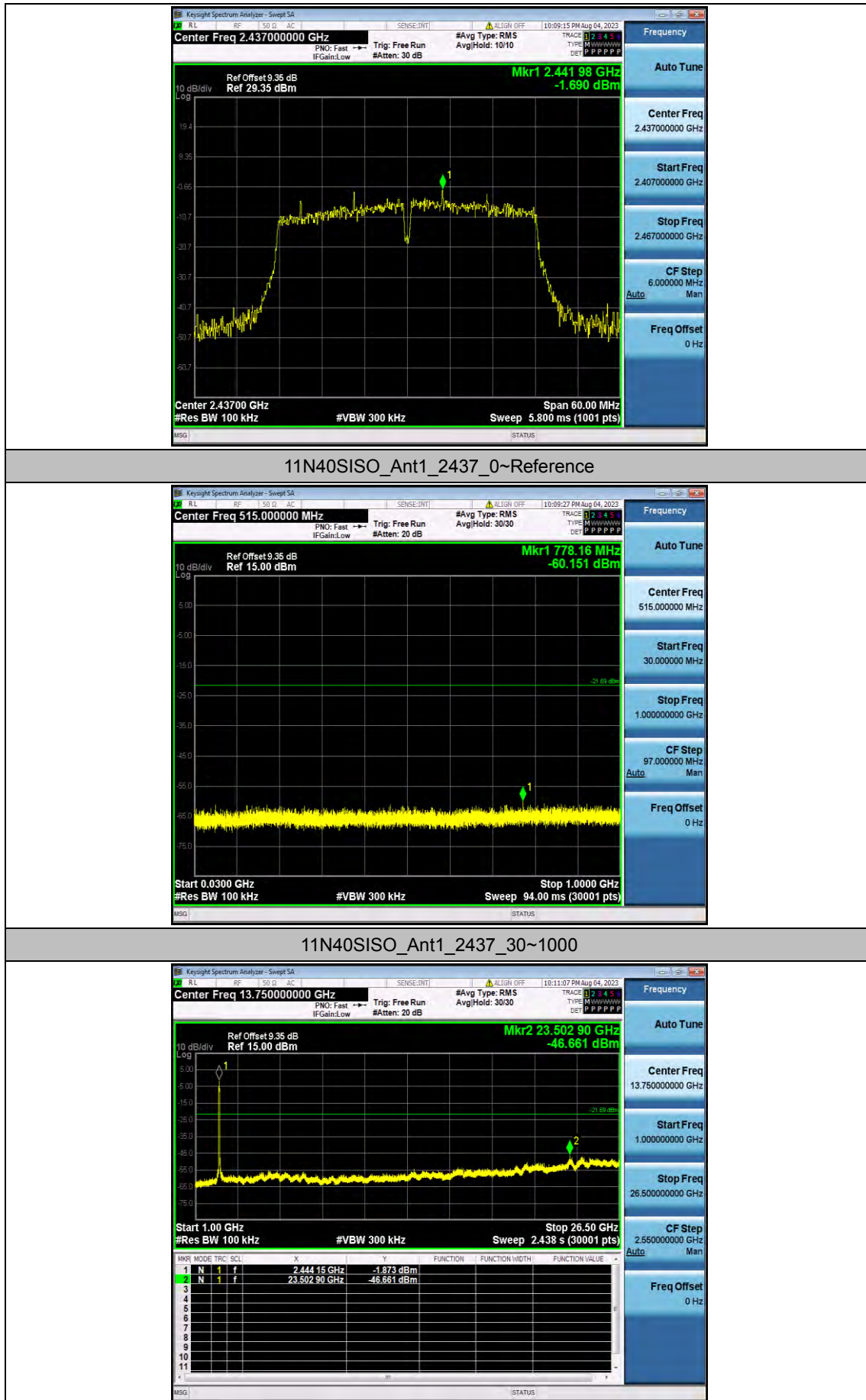
11N40SISO_Ant1_2422_0~Reference



11N40SISO_Ant1_2422_30~1000



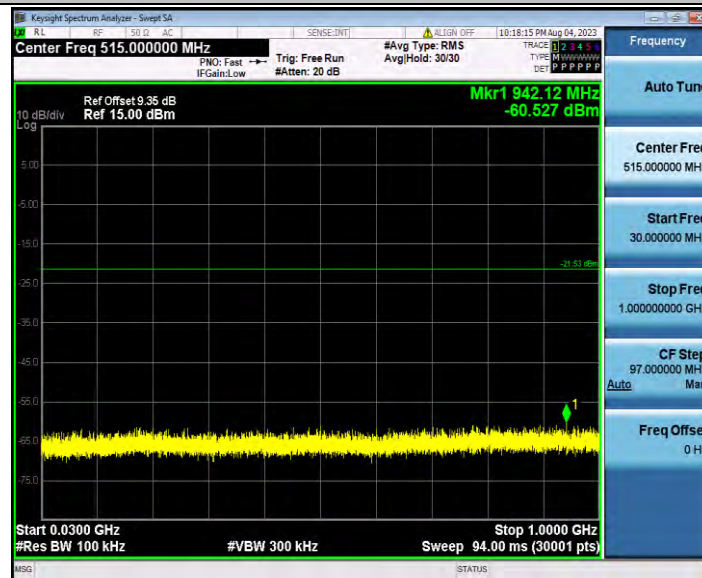
11N40SISO_Ant1_2422_1000~26500



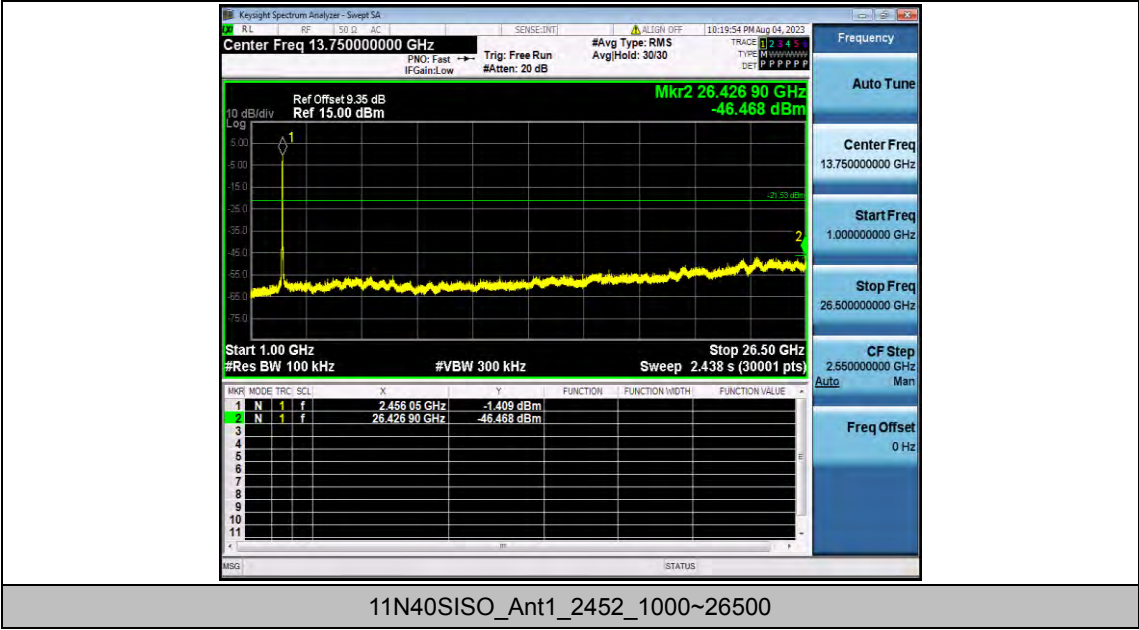
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500

Appendix A.7: Emissions in Restricted Bands

Test Result

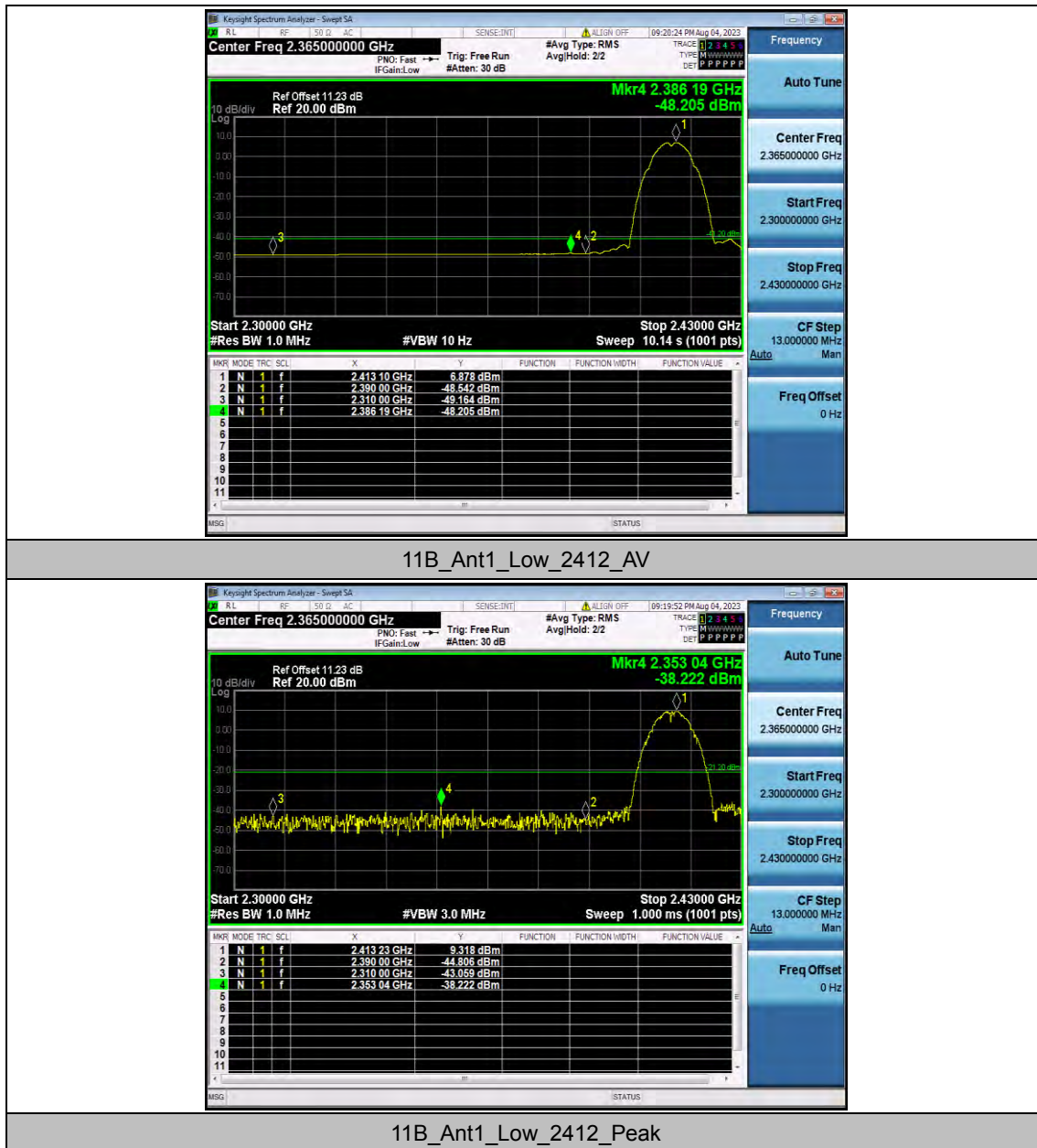
Test Mode	Antenna	ChName	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.16	≤-41.20	46.04	≤54	PASS
				AV	2386.190	-48.21	≤-41.20	46.99	≤54	PASS
				AV	2390.000	-48.54	≤-41.20	46.66	≤54	PASS
				Peak	2310.000	-43.06	≤-21.20	52.14	≤74	PASS
				Peak	2353.040	-38.22	≤-21.20	56.98	≤74	PASS
				Peak	2390.000	-44.81	≤-21.20	50.39	≤74	PASS
		High	2462	AV	2483.500	-48.25	≤-41.20	46.95	≤54	PASS
				AV	2487.850	-47.81	≤-41.20	47.39	≤54	PASS
				AV	2500.000	-48.05	≤-41.20	47.15	≤54	PASS
				Peak	2483.500	-47.21	≤-21.20	47.99	≤74	PASS
				Peak	2485.760	-38.78	≤-21.20	56.42	≤74	PASS
				Peak	2500.000	-43.37	≤-21.20	51.83	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-48.97	≤-41.20	46.23	≤54	PASS
				AV	2389.960	-45.84	≤-41.20	49.36	≤54	PASS
				AV	2390.000	-45.84	≤-41.20	49.36	≤54	PASS
				Peak	2310.000	-50.97	≤-21.20	44.23	≤74	PASS
				Peak	2384.240	-39	≤-21.20	56.20	≤74	PASS
				Peak	2390.000	-41.09	≤-21.20	54.11	≤74	PASS
		High	2462	AV	2483.500	-45.09	≤-41.20	50.11	≤54	PASS
				AV	2483.560	-45.14	≤-41.20	50.06	≤54	PASS
				AV	2500.000	-47.18	≤-41.20	48.02	≤54	PASS
				Peak	2483.500	-42.98	≤-21.20	52.22	≤74	PASS
				Peak	2484.110	-38.91	≤-21.20	56.29	≤74	PASS
				Peak	2500.000	-42.77	≤-21.20	52.43	≤74	PASS
11N20SISO	Ant1	Low	2412	AV	2310.000	-48.98	≤-41.20	46.22	≤54	PASS
				AV	2389.960	-44.81	≤-41.20	50.39	≤54	PASS
				AV	2390.000	-44.81	≤-41.20	50.39	≤54	PASS
				Peak	2310.000	-45.23	≤-21.20	49.97	≤74	PASS
				Peak	2388.920	-36.23	≤-21.20	58.97	≤74	PASS
				Peak	2390.000	-46.04	≤-21.20	49.16	≤74	PASS
		High	2462	AV	2483.500	-44.5	≤-41.20	50.70	≤54	PASS
				AV	2483.560	-44.59	≤-41.20	50.61	≤54	PASS
				AV	2500.000	-47.19	≤-41.20	48.01	≤54	PASS
				Peak	2483.500	-37.72	≤-21.20	57.48	≤74	PASS

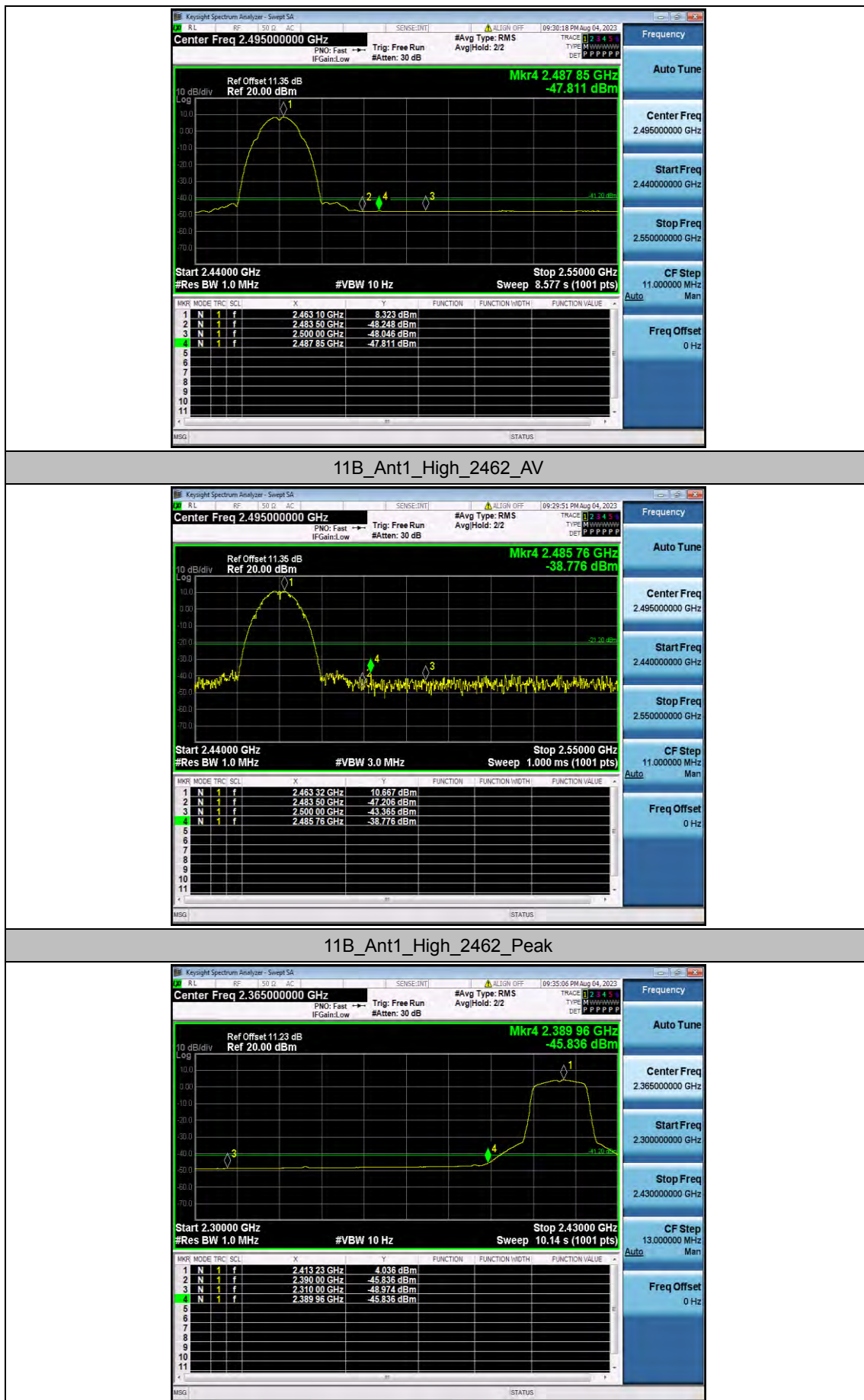
11N40SIS O	Ant1			Peak	2483.780	-38.1	≤ -21.20	57.10	≤ 74	PASS
				Peak	2500.000	-44.75	≤ -21.20	50.45	≤ 74	PASS
		Low	2422	AV	2310.000	-49.04	≤ -41.20	46.16	≤ 54	PASS
				AV	2389.960	-43.21	≤ -41.20	51.99	≤ 54	PASS
				AV	2390.000	-43.21	≤ -41.20	51.99	≤ 54	PASS
				Peak	2310.000	-42.58	≤ -21.20	52.62	≤ 74	PASS
				Peak	2389.700	-36.28	≤ -21.20	58.92	≤ 74	PASS
				Peak	2390.000	-37.36	≤ -21.20	57.84	≤ 74	PASS
		High	2452	AV	2483.500	-42.94	≤ -41.20	52.26	≤ 54	PASS
				AV	2483.560	-42.97	≤ -41.20	52.23	≤ 54	PASS
				AV	2500.000	-46.86	≤ -41.20	48.34	≤ 54	PASS
				Peak	2483.500	-37.62	≤ -21.20	57.58	≤ 74	PASS
				Peak	2484.440	-36.55	≤ -21.20	58.65	≤ 74	PASS
				Peak	2500.000	-47.4	≤ -21.20	47.80	≤ 74	PASS

Note:

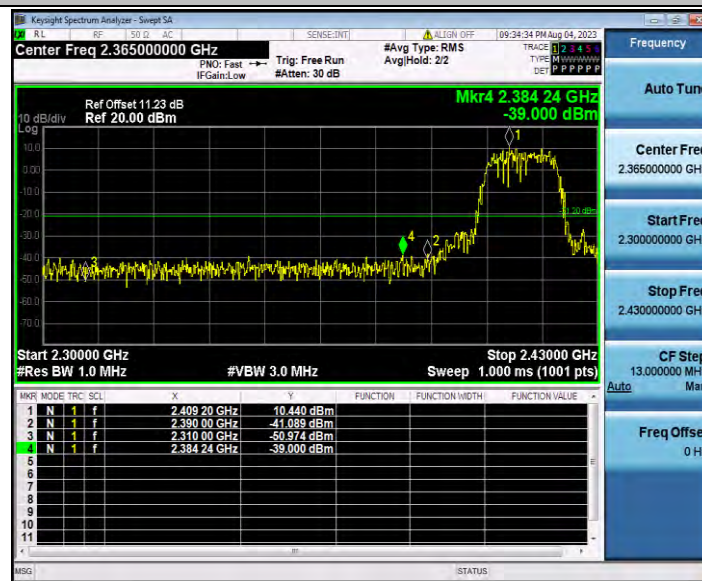
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

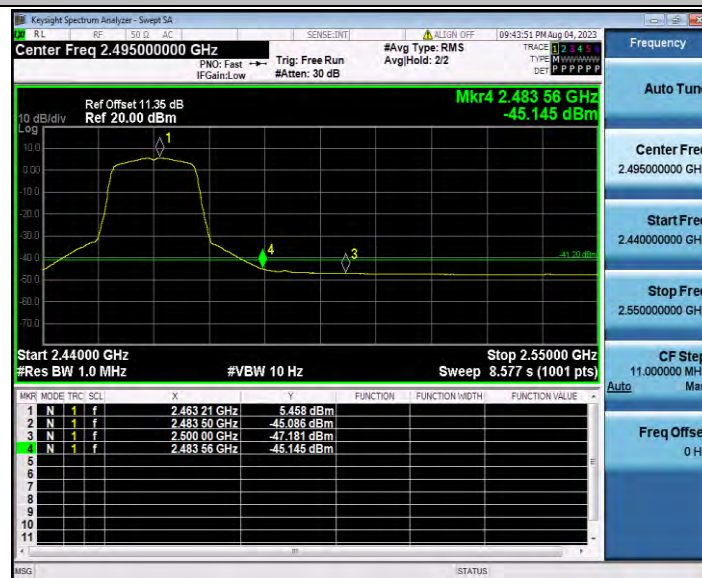




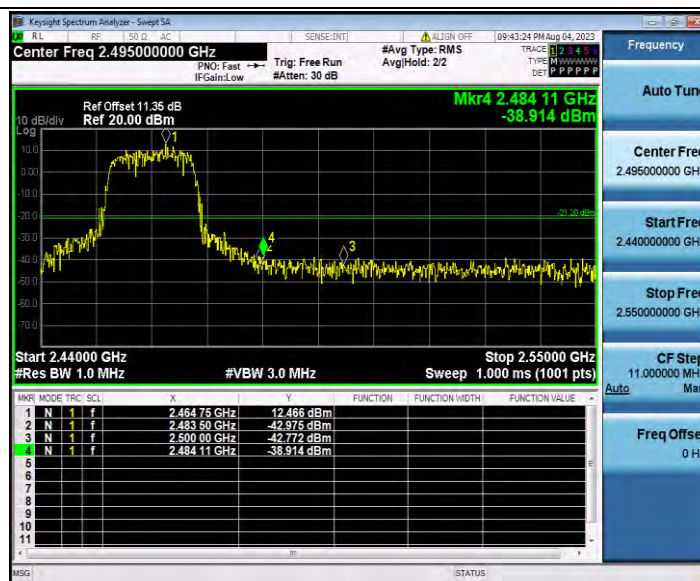
11G_Ant1_Low_2412_AV



11G_Ant1_Low_2412_Peak



11G_Ant1_High_2462_AV



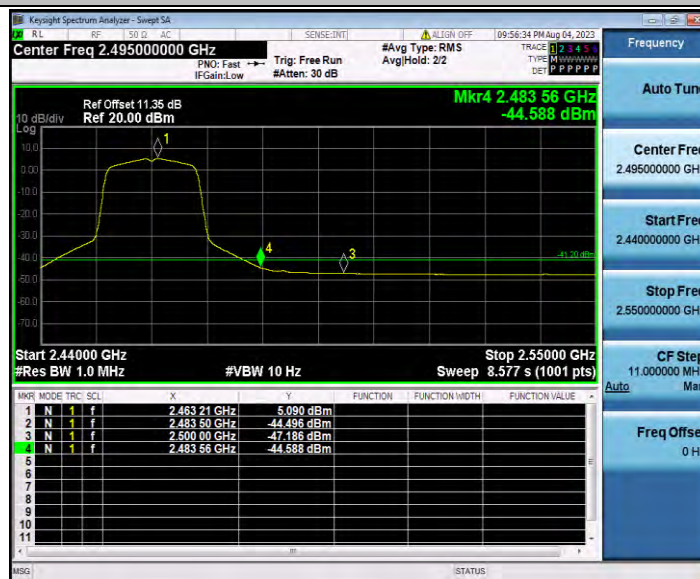
11G_Ant1_High_2462_Peak



11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak

