

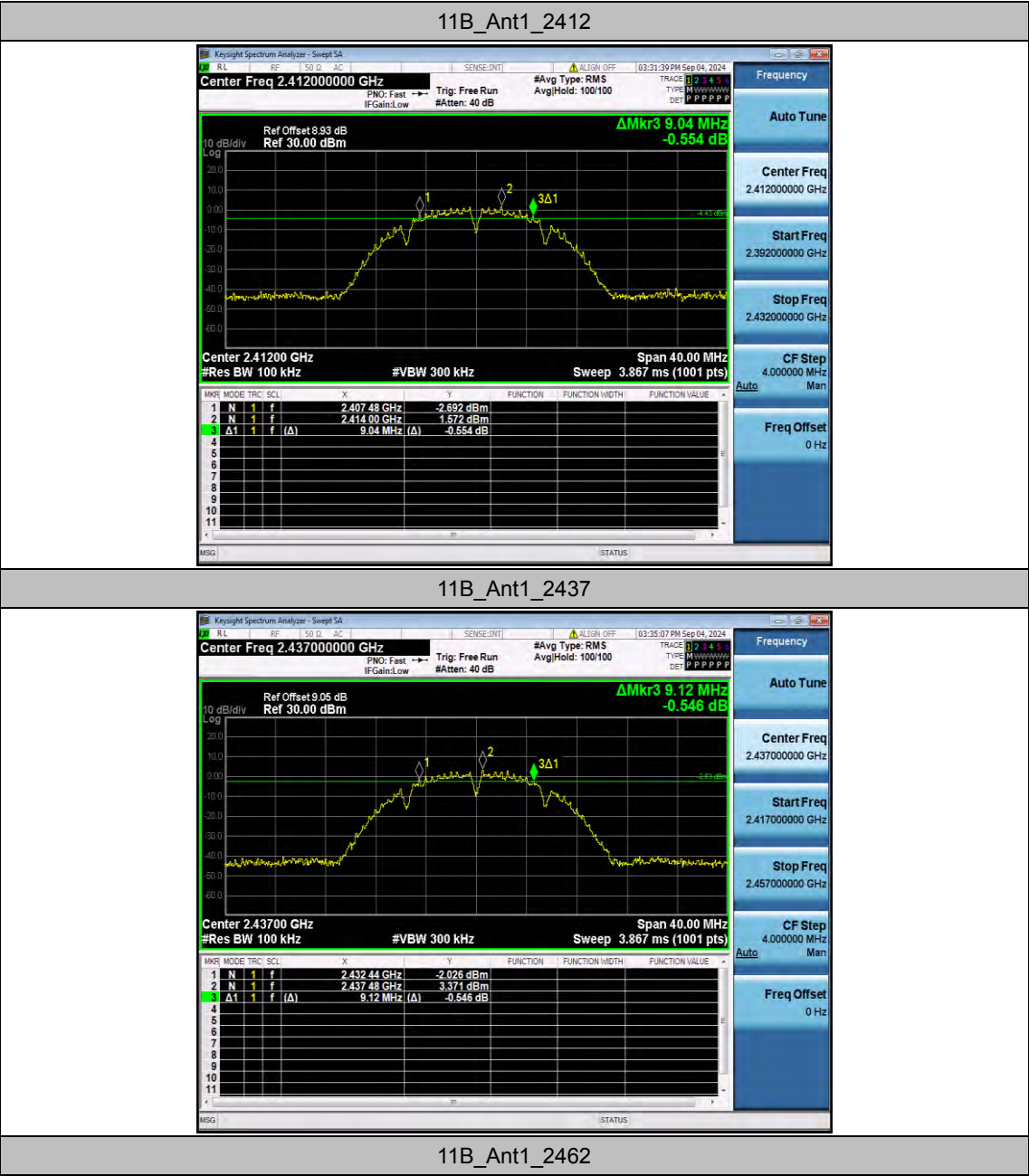
Case No. : <u>CTA24101702003</u>	
Ambient Condition: <u>23</u> °C, <u>52</u> %RH,	
Test Date: <u>2024.9.4</u>	Test Engineer: <u>Evan ouyang</u>

Appendix C.1: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.480	2416.520	0.5	PASS
		2437	9.120	2432.440	2441.560	0.5	PASS
		2462	10.040	2456.960	2467.000	0.5	PASS
11G	Ant1	2412	14.040	2405.480	2419.520	0.5	PASS
		2437	10.640	2431.960	2442.600	0.5	PASS
		2462	13.760	2454.480	2468.240	0.5	PASS
11N20SISO	Ant1	2412	12.560	2405.720	2418.280	0.5	PASS
		2437	12.320	2431.000	2443.320	0.5	PASS
		2462	13.480	2454.520	2468.000	0.5	PASS

Test Graphs

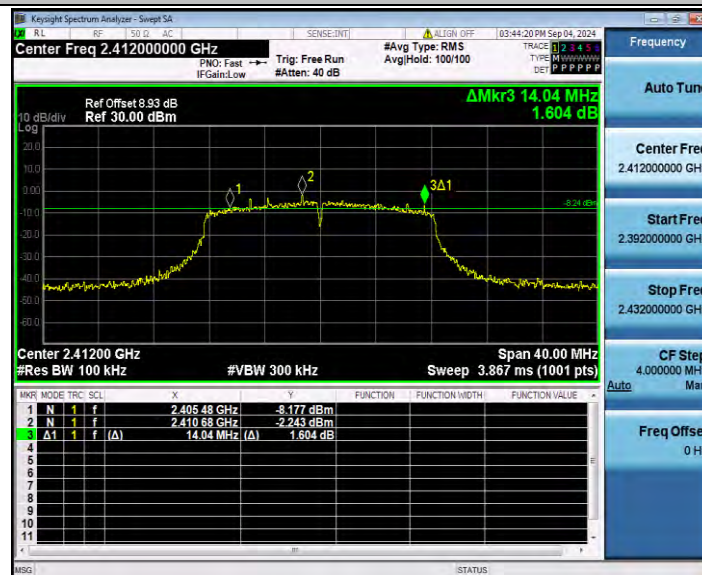


11B_Ant1_2437

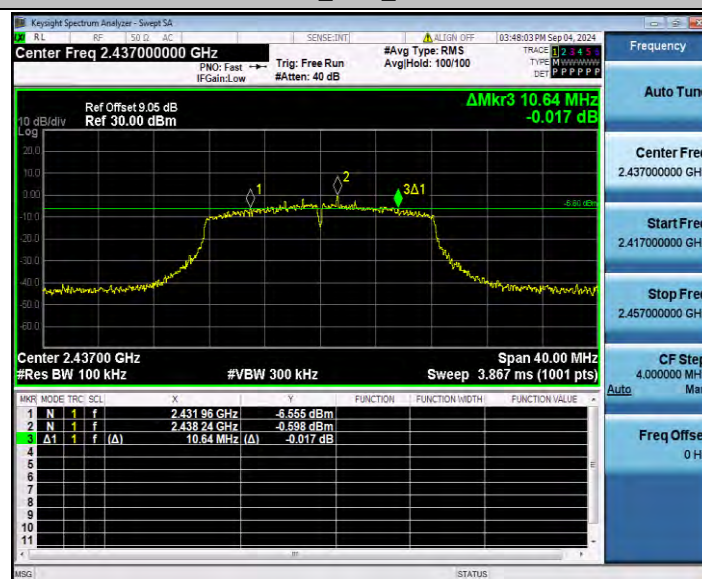
11B_Ant1_2462



11G_Ant1_2412



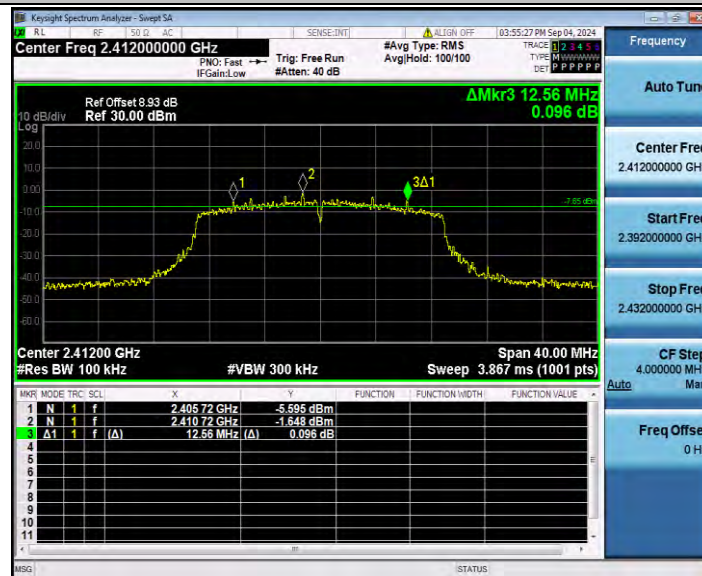
11G_Ant1_2437



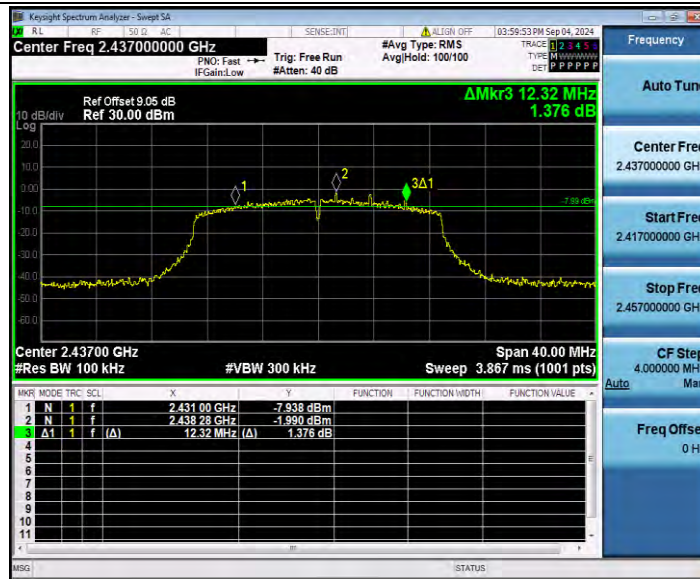
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

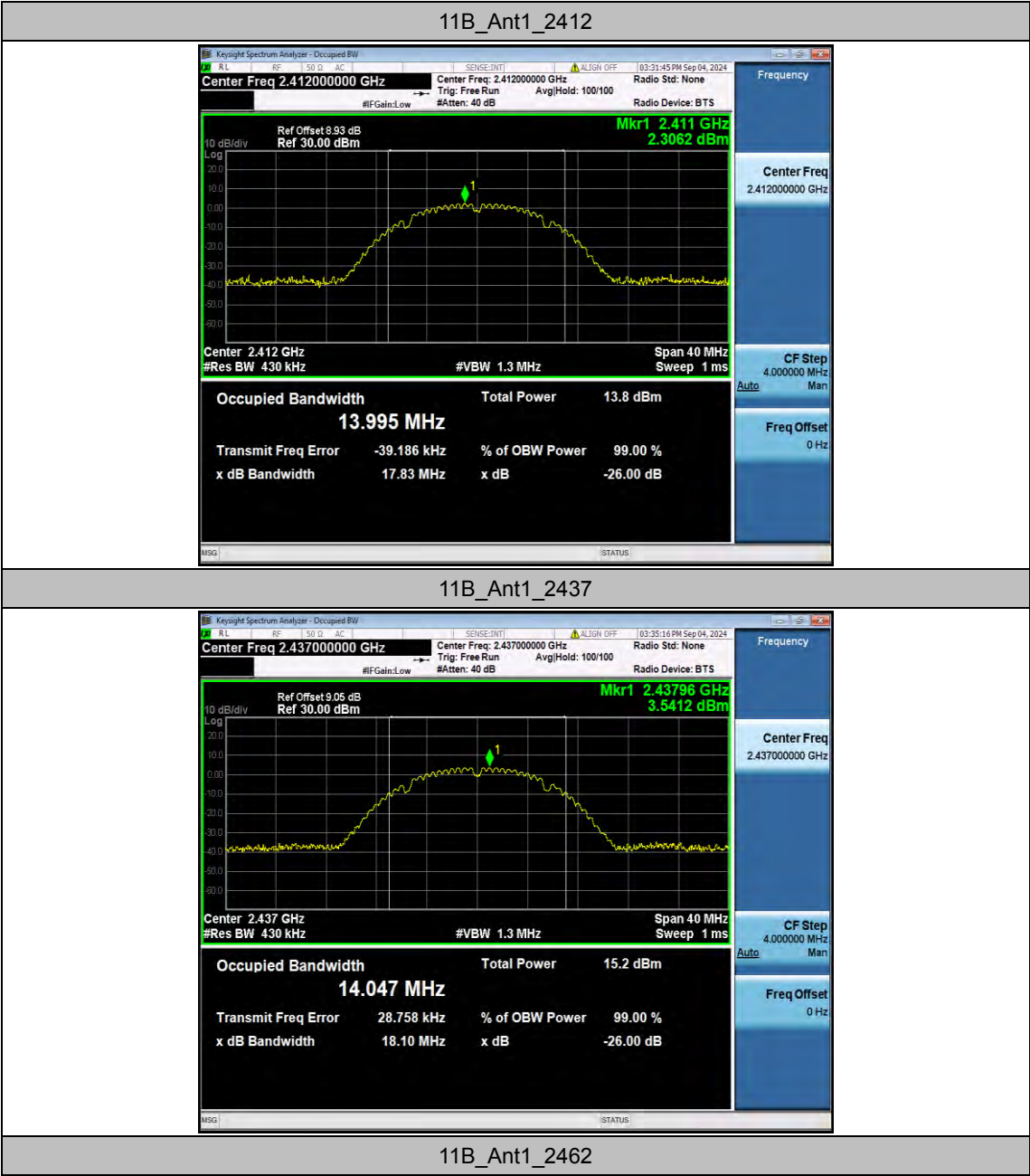


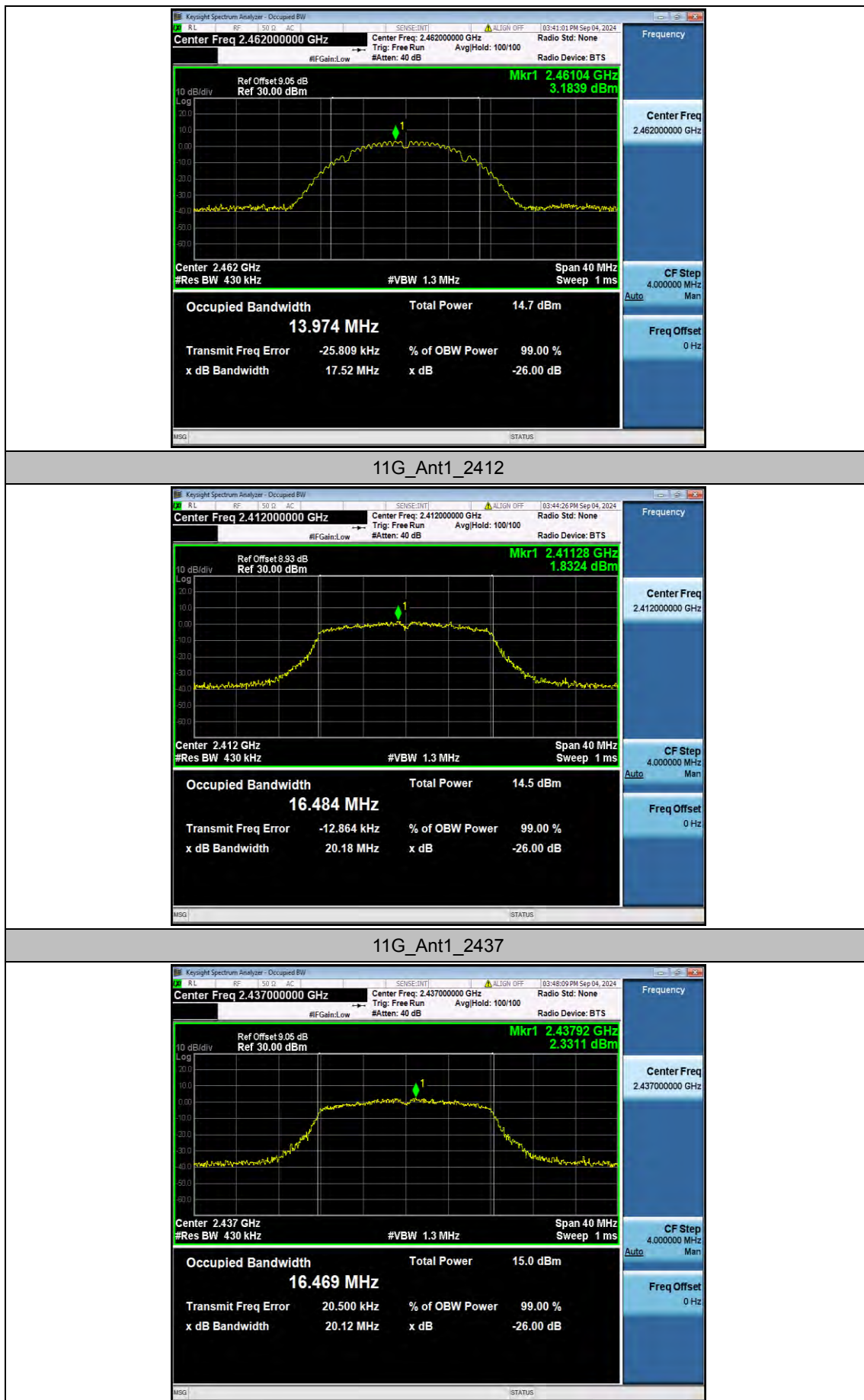
Appendix C.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.995	2404.9633	2418.9583	---	---
		2437	14.047	2430.0053	2444.0523	---	---
		2462	13.974	2454.9872	2468.9612	---	---
11G	Ant1	2412	16.484	2403.7451	2420.2291	---	---
		2437	16.469	2428.7860	2445.2550	---	---
		2462	16.445	2453.7530	2470.1980	---	---
11N20SISO	Ant1	2412	17.635	2403.1767	2420.8117	---	---
		2437	17.544	2428.2741	2445.8181	---	---
		2462	17.521	2453.2244	2470.7454	---	---

Test Graphs

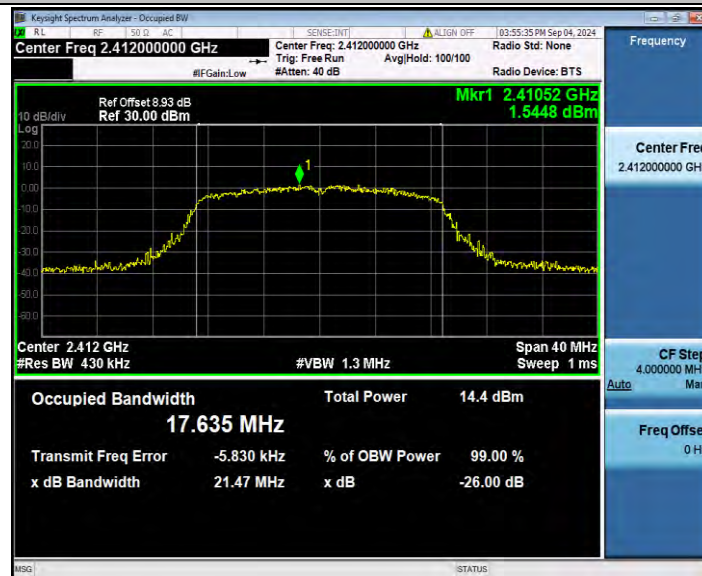




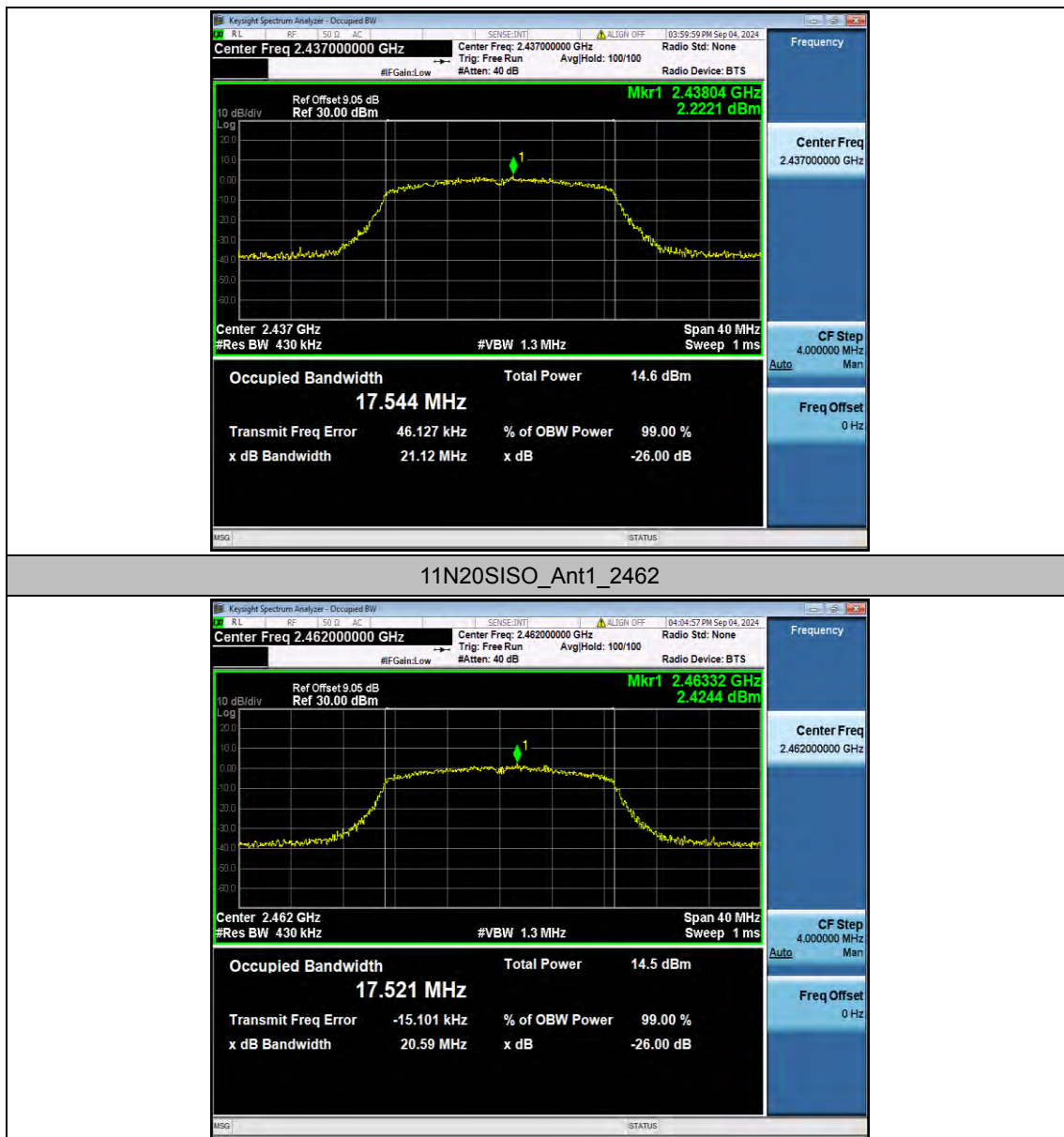
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



Appendix C.3: Maximum conducted output power

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.96	≤30.00	PASS
		2437	15.34	≤30.00	PASS
		2462	14.85	≤30.00	PASS
11G	Ant1	2412	15.76	≤30.00	PASS
		2437	16.23	≤30.00	PASS
		2462	16.14	≤30.00	PASS
11N20SISO	Ant1	2412	15.68	≤30.00	PASS
		2437	15.88	≤30.00	PASS
		2462	15.63	≤30.00	PASS

Appendix C.4: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.15	≤8.00	PASS
		2437	-10.91	≤8.00	PASS
		2462	-11.17	≤8.00	PASS
11G	Ant1	2412	-15.60	≤8.00	PASS
		2437	-15.60	≤8.00	PASS
		2462	-12.92	≤8.00	PASS
11N20SISO	Ant1	2412	-16.09	≤8.00	PASS
		2437	-15.68	≤8.00	PASS
		2462	-16.42	≤8.00	PASS

Test Graphs

11B_Ant1_2412



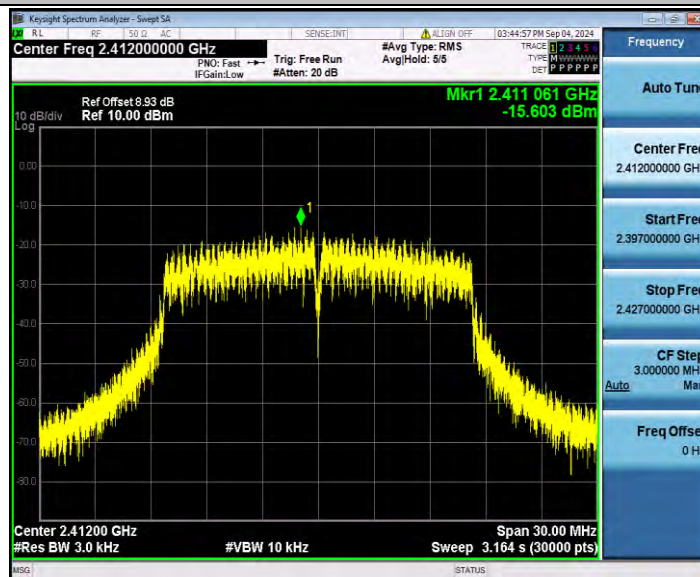
11B_Ant1_2437



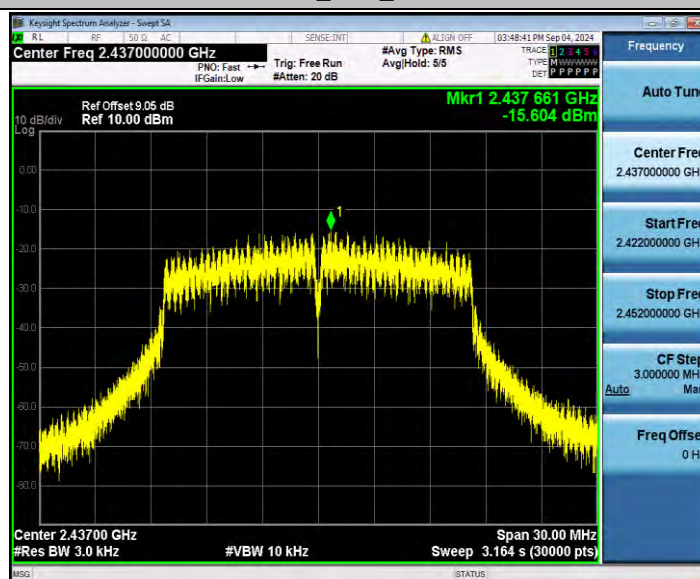
11B_Ant1_2462



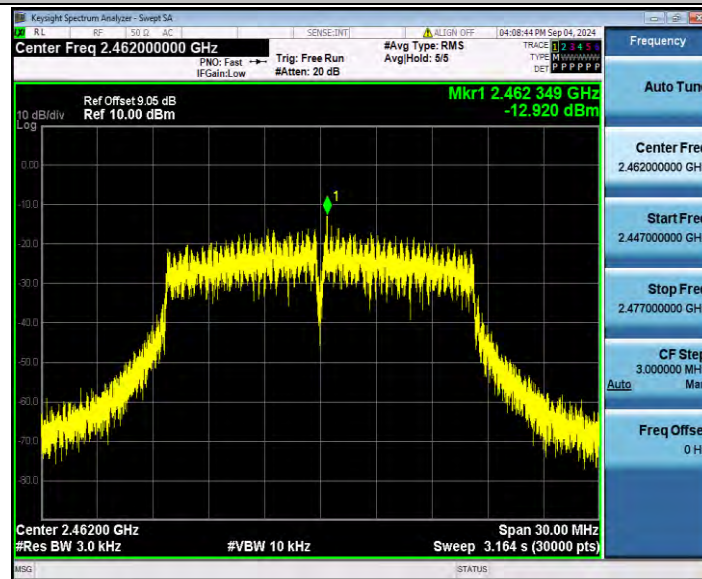
11G_Ant1_2412



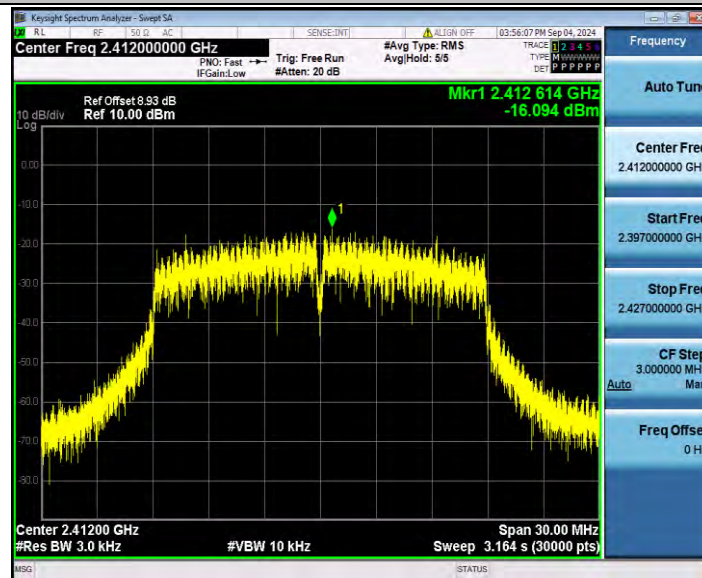
11G_Ant1_2437



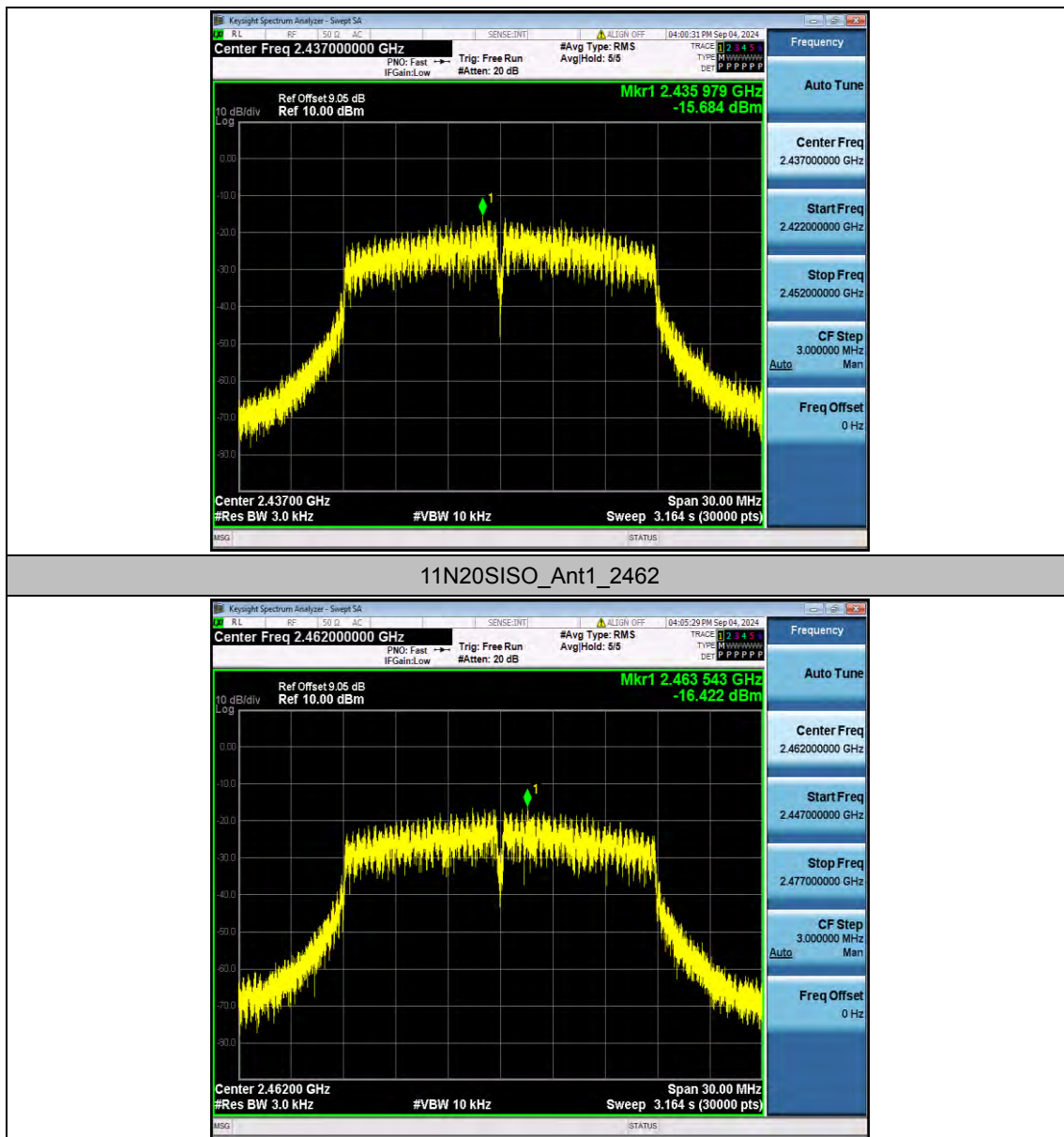
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



Appendix C.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.79	-47.87	≤ -18.21	PASS
		High	2462	3.02	-49.54	≤ -16.98	PASS
11G	Ant1	Low	2412	-2.47	-39.23	≤ -22.47	PASS
		High	2462	-0.86	-49.63	≤ -20.86	PASS
11N20SISO	Ant1	Low	2412	-1.03	-40.04	≤ -21.03	PASS
		High	2462	-1.55	-49.37	≤ -21.55	PASS

Test Graphs



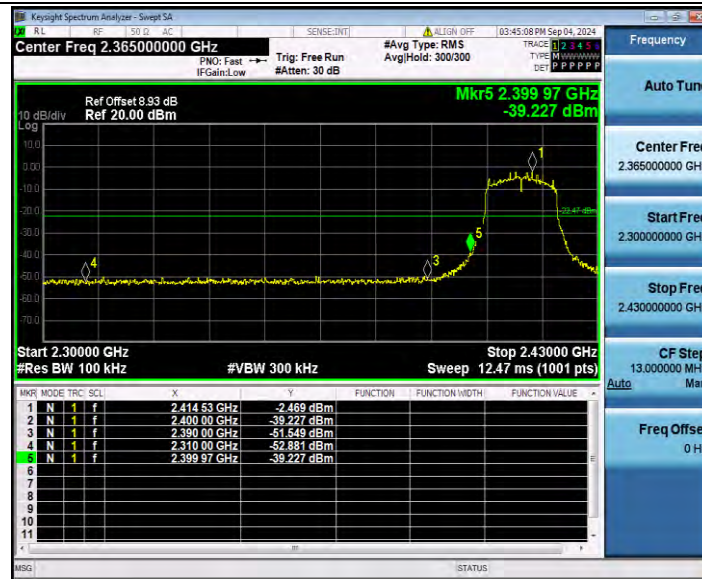
11B_Ant1_High_2462

Frequency

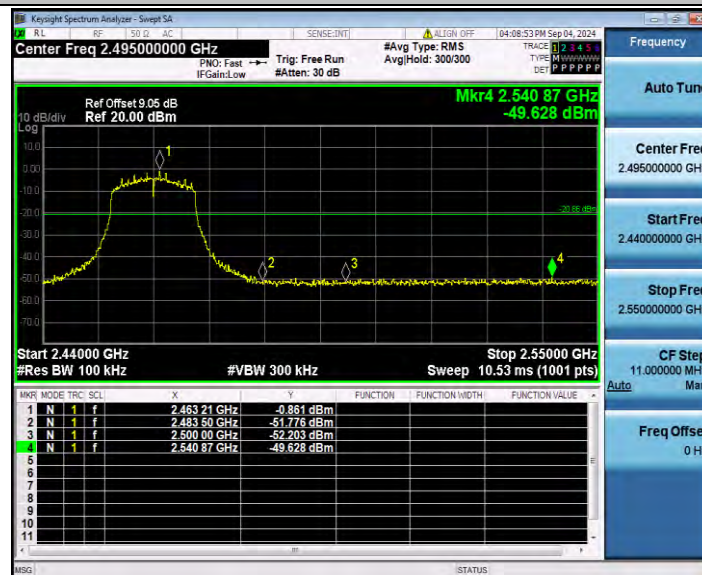
Auto Tune

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

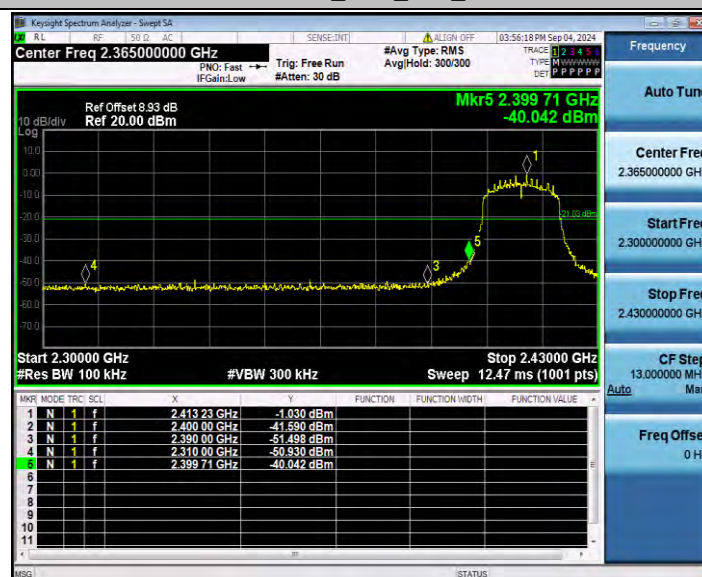
11G_Ant1_Low_2412



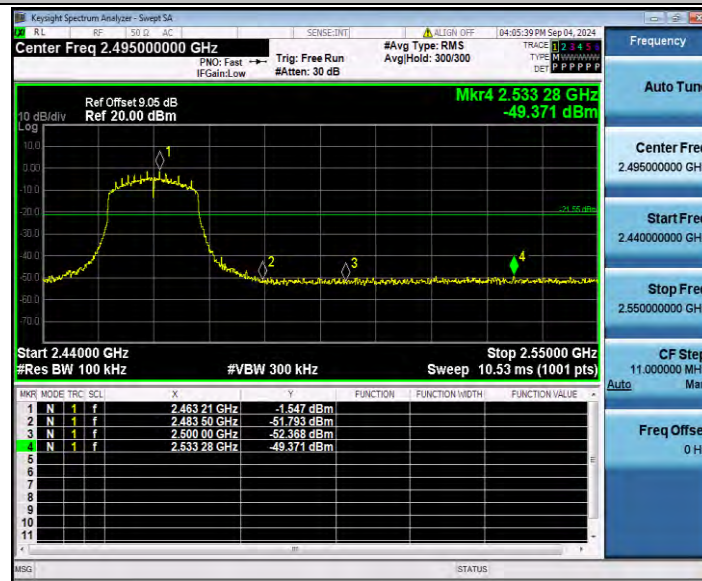
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462

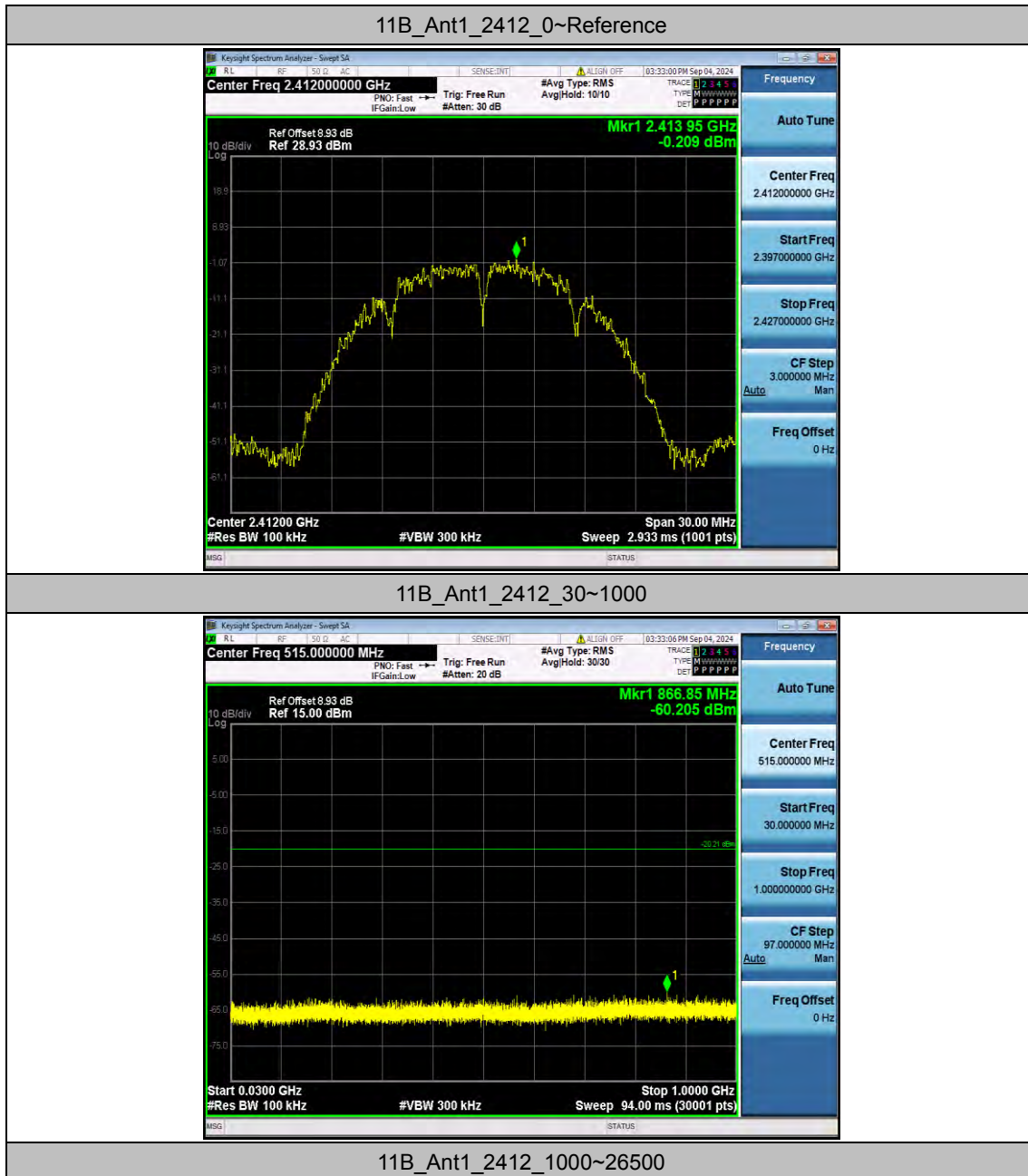


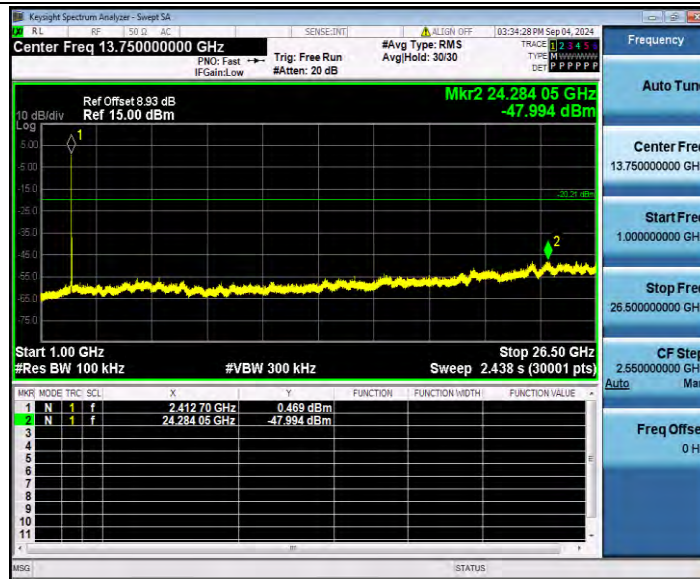
Appendix C.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-0.21	-0.21	---	PASS
			30~1000	-0.21	-60.21	≤ -20.21	PASS
			1000~26500	-0.21	-47.99	≤ -20.21	PASS
		2437	Reference	2.15	2.15	---	PASS
			30~1000	2.15	-59.6	≤ -17.85	PASS
			1000~26500	2.15	-47.49	≤ -17.85	PASS
		2462	Reference	0.94	0.94	---	PASS
			30~1000	0.94	-60.74	≤ -19.06	PASS
			1000~26500	0.94	-47.95	≤ -19.06	PASS
11G	Ant1	2412	Reference	-2.14	-2.14	---	PASS
			30~1000	-2.14	-60.51	≤ -22.14	PASS
			1000~26500	-2.14	-47.95	≤ -22.14	PASS
		2437	Reference	-4.37	-4.37	---	PASS
			30~1000	-4.37	-60.02	≤ -24.37	PASS
			1000~26500	-4.37	-47.56	≤ -24.37	PASS
		2462	Reference	-3.95	-3.95	---	PASS
			30~1000	-3.95	-60.7	≤ -23.95	PASS
			1000~26500	-3.95	-48.14	≤ -23.95	PASS
11N20SISO	Ant1	2412	Reference	-5.14	-5.14	---	PASS
			30~1000	-5.14	-60.68	≤ -25.14	PASS
			1000~26500	-5.14	-47.96	≤ -25.14	PASS
		2437	Reference	-1.70	-1.70	---	PASS
			30~1000	-1.70	-60.39	≤ -21.7	PASS
			1000~26500	-1.70	-47.43	≤ -21.7	PASS
		2462	Reference	-5.03	-5.03	---	PASS
			30~1000	-5.03	-60.14	≤ -25.03	PASS
			1000~26500	-5.03	-48.02	≤ -25.03	PASS

Test Graphs

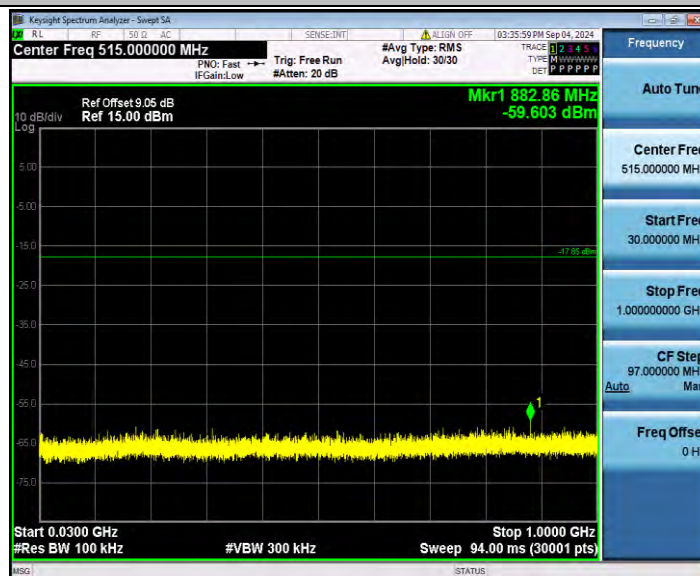




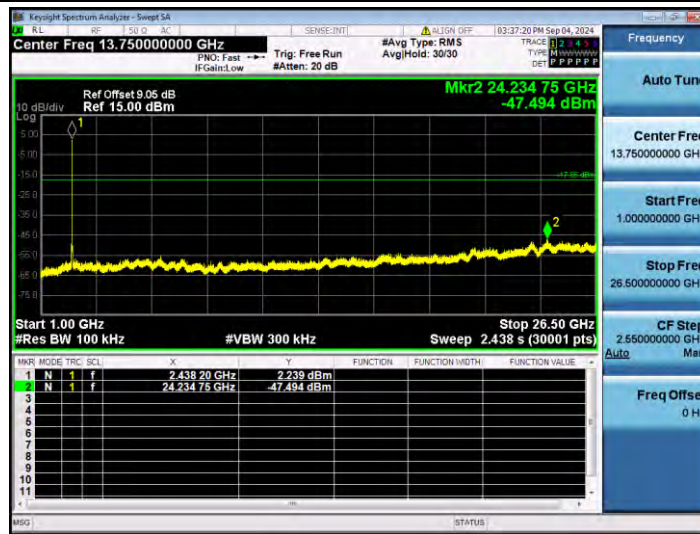
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



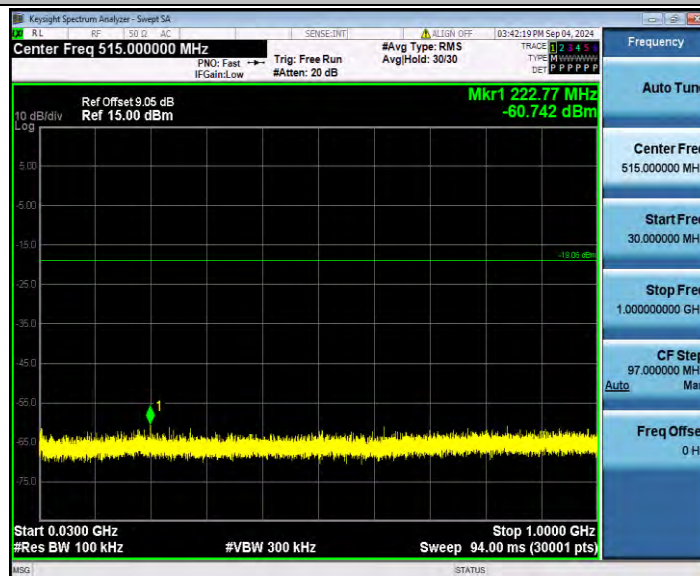
11B_Ant1_2437_1000~26500



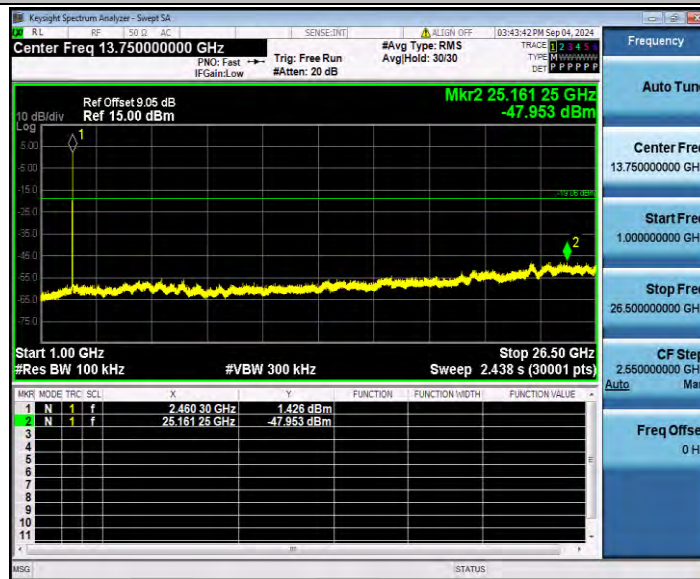
11B_Ant1_2462_0~Reference



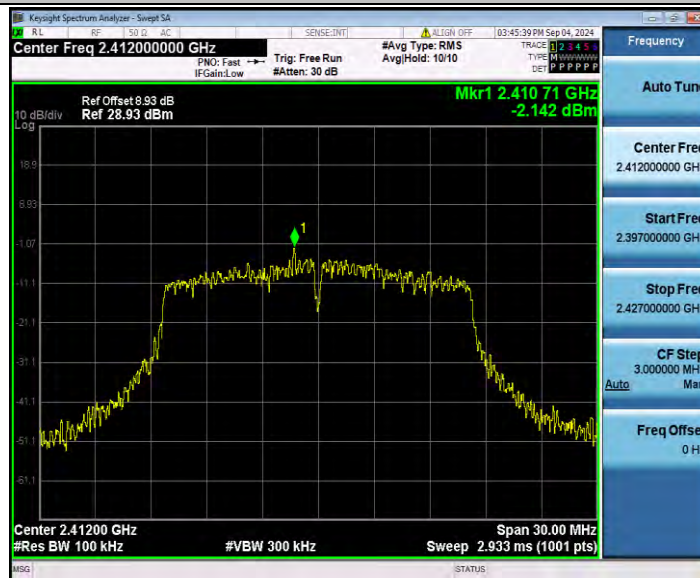
11B_Ant1_2462_30~1000



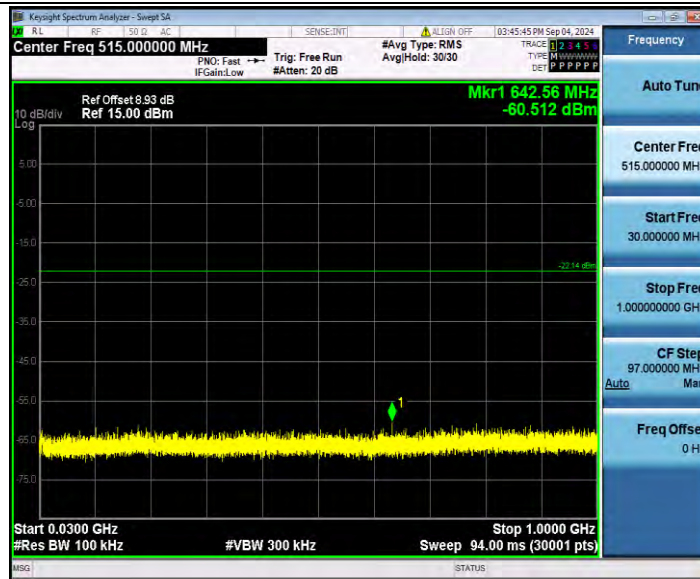
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

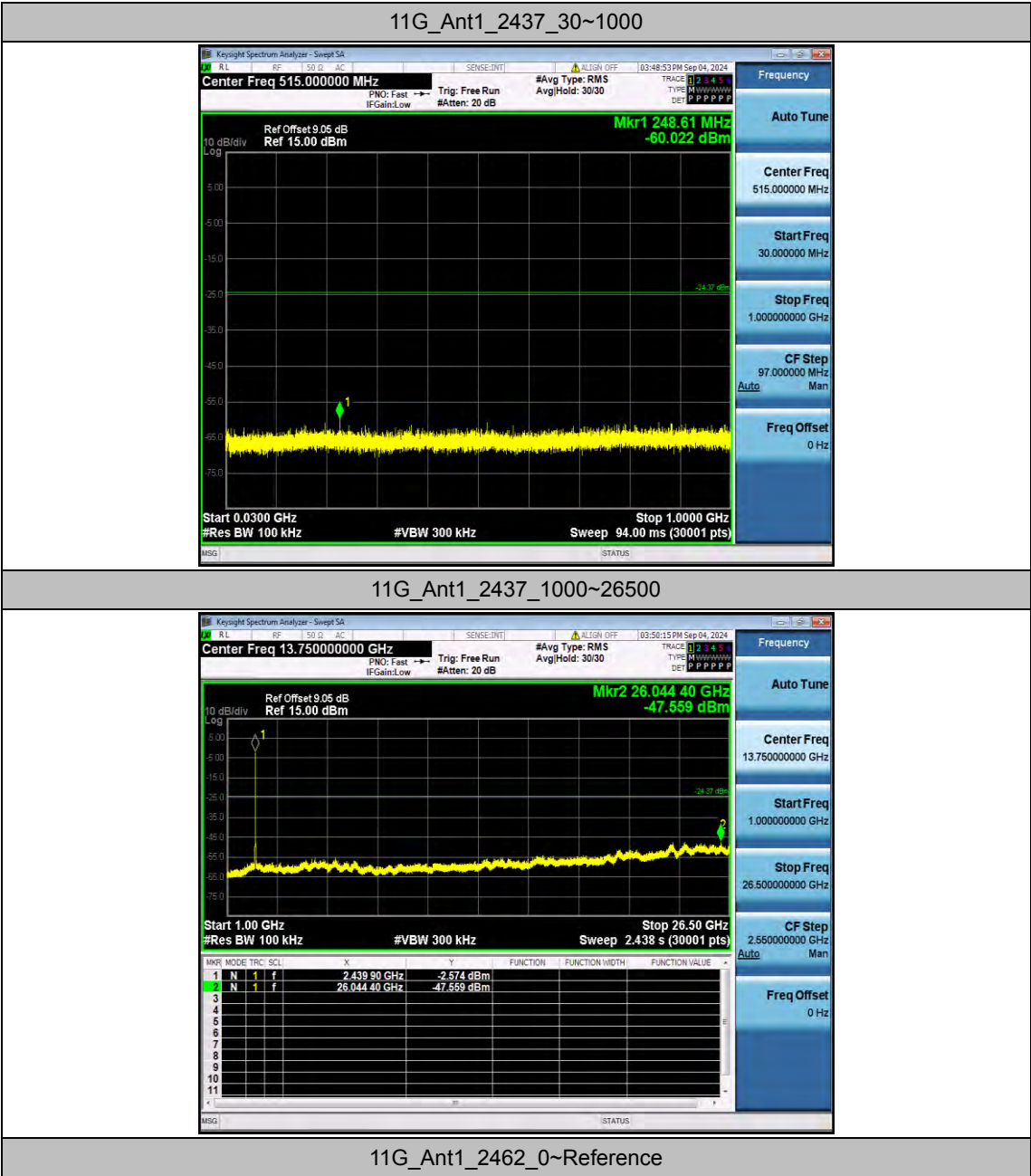


11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



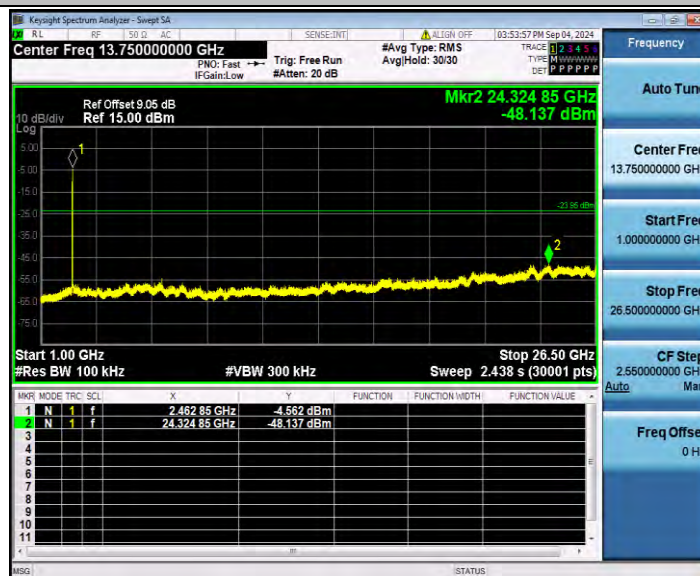




11G_Ant1_2462_30~1000



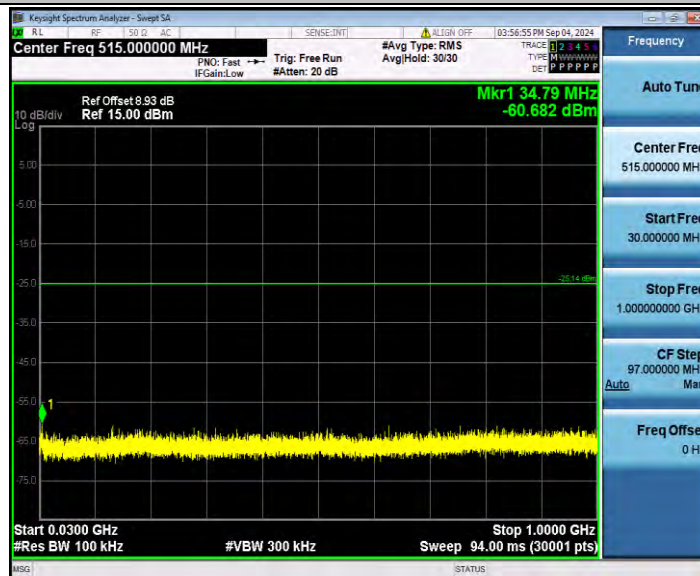
11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



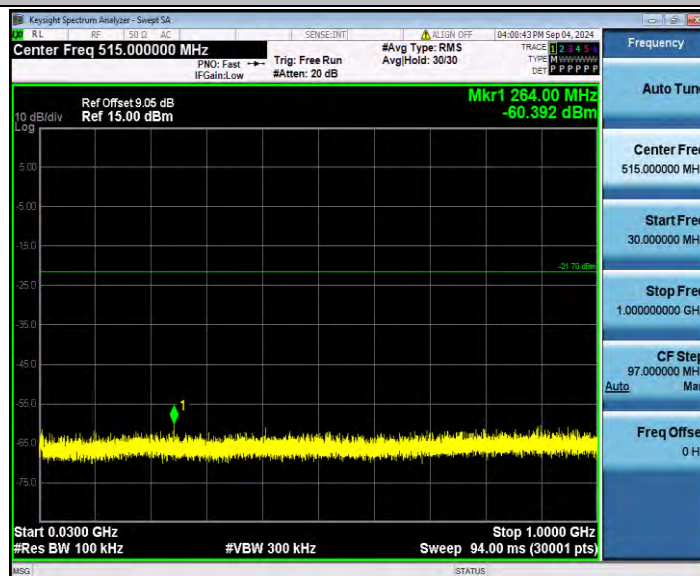
11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



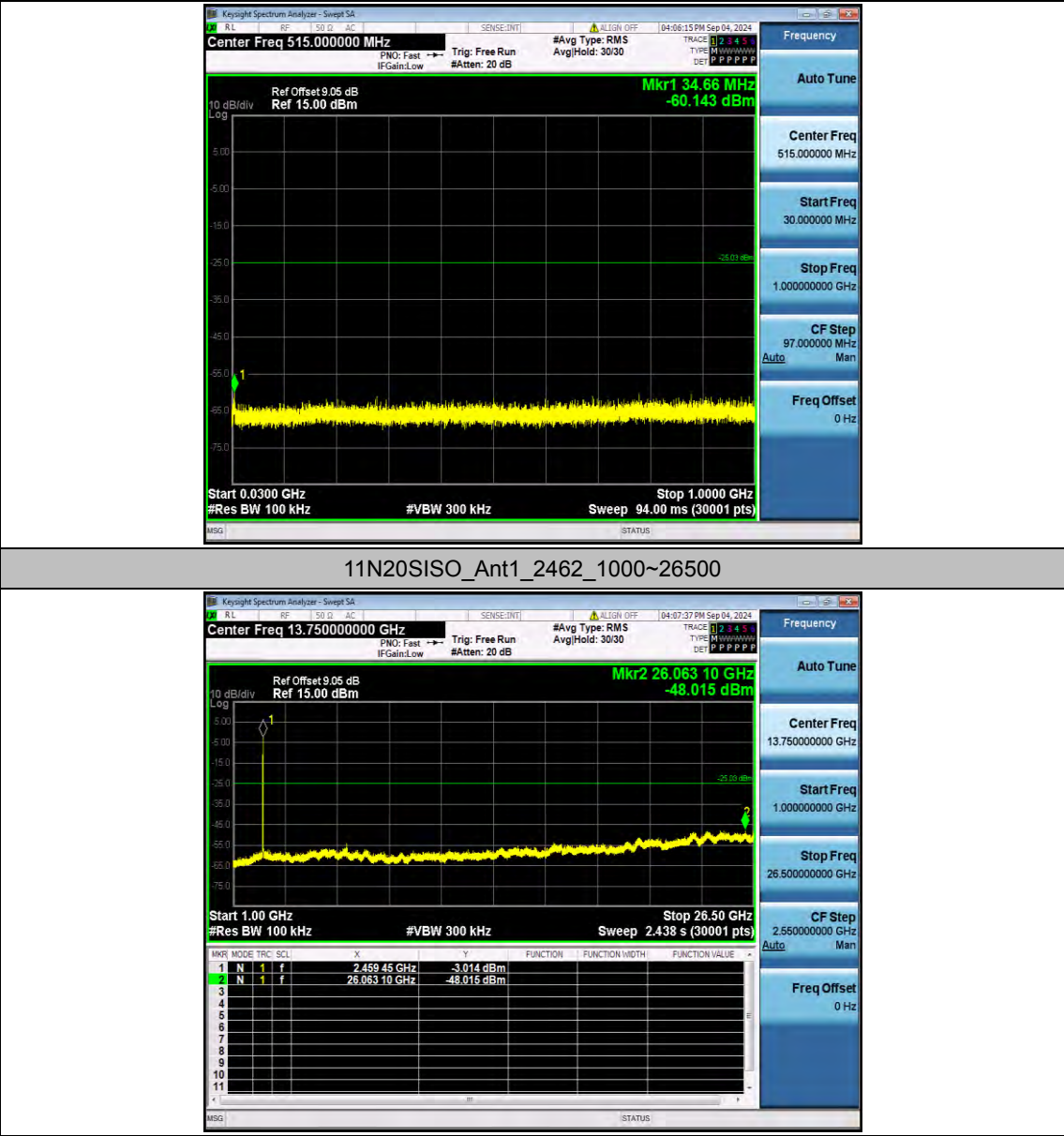
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



Appendix C.7: Emissions in Restricted Bands

Test Result

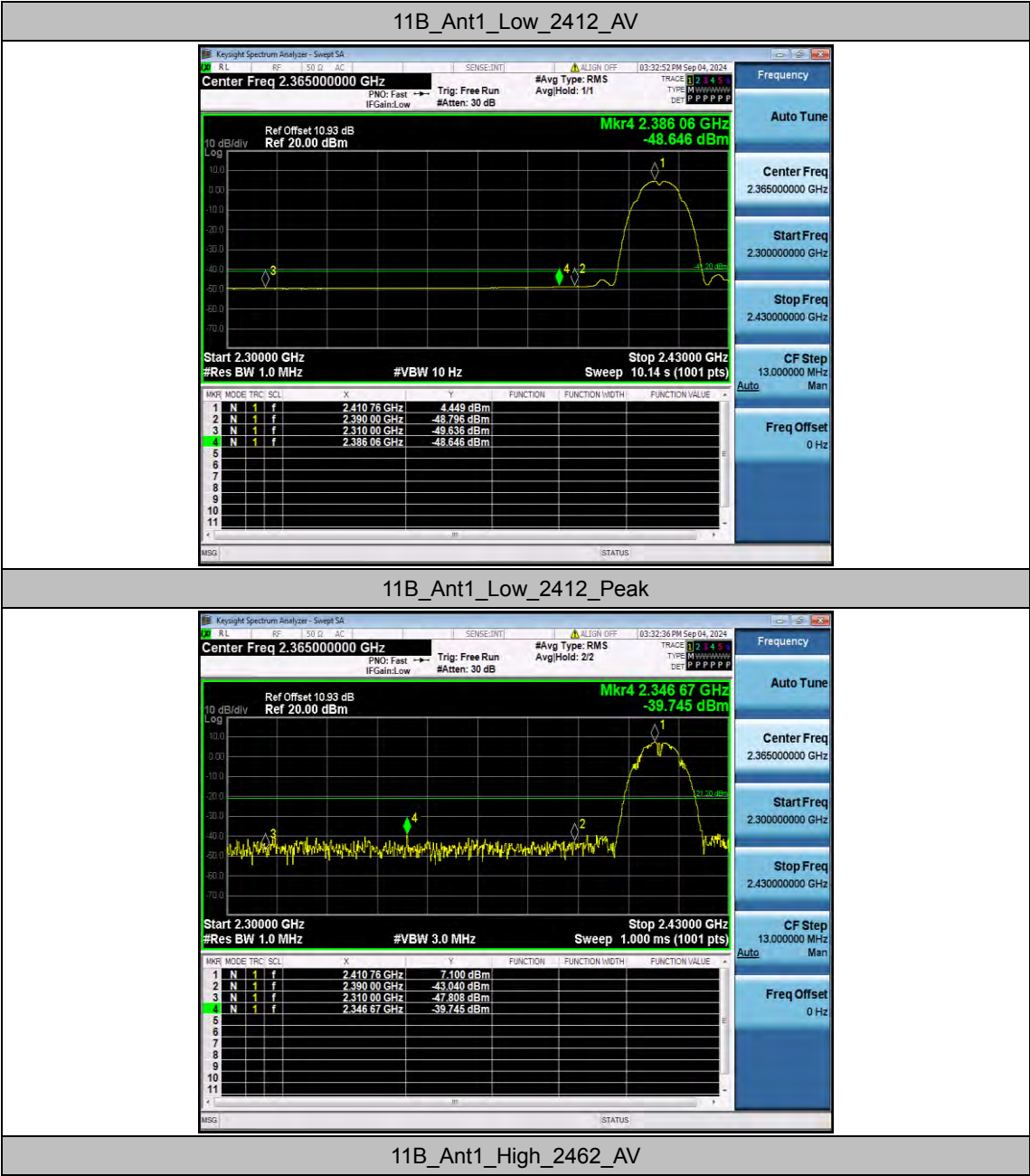
TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.64	≤-41.20	45.56	≤54	PASS
				AV	2386.060	-48.65	≤-41.20	46.55	≤54	PASS
				AV	2390.000	-48.8	≤-41.20	46.40	≤54	PASS
				Peak	2310.000	-47.81	≤-21.20	47.39	≤74	PASS
				Peak	2346.670	-39.74	≤-21.20	55.46	≤74	PASS
				Peak	2390.000	-43.04	≤-21.20	52.16	≤74	PASS
		High	2462	AV	2483.500	-48.69	≤-41.20	46.51	≤54	PASS
				AV	2487.190	-48.54	≤-41.20	46.66	≤54	PASS
				AV	2500.000	-48.9	≤-41.20	46.30	≤54	PASS
				Peak	2483.500	-44.79	≤-21.20	50.41	≤74	PASS
				Peak	2485.210	-38.82	≤-21.20	56.38	≤74	PASS
				Peak	2500.000	-47.46	≤-21.20	47.74	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.38	≤-41.20	45.82	≤54	PASS
				AV	2389.700	-48.58	≤-41.20	46.62	≤54	PASS
				AV	2390.000	-48.66	≤-41.20	46.54	≤54	PASS
				Peak	2310.000	-42.66	≤-21.20	52.54	≤74	PASS
				Peak	2370.330	-40.64	≤-21.20	54.56	≤74	PASS
				Peak	2390.000	-48.13	≤-21.20	47.07	≤74	PASS
		High	2462	AV	2483.500	-48.23	≤-41.20	46.97	≤54	PASS
				AV	2483.560	-48.27	≤-41.20	46.93	≤54	PASS
				AV	2500.000	-48.75	≤-41.20	46.45	≤54	PASS
				Peak	2483.500	-41.77	≤-21.20	53.43	≤74	PASS
				Peak	2484.110	-42.22	≤-21.20	52.98	≤74	PASS
				Peak	2500.000	-46.2	≤-21.20	49.00	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.4	≤-41.20	45.80	≤54	PASS
				AV	2389.960	-48.36	≤-41.20	46.84	≤54	PASS
				AV	2390.000	-48.36	≤-41.20	46.84	≤54	PASS
				Peak	2310.000	-50.73	≤-21.20	44.47	≤74	PASS
				Peak	2346.020	-38.78	≤-21.20	56.42	≤74	PASS
				Peak	2390.000	-45.96	≤-21.20	49.24	≤74	PASS
		High	2462	AV	2483.500	-48.11	≤-41.20	47.09	≤54	PASS
				AV	2483.560	-48.15	≤-41.20	47.05	≤54	PASS
				AV	2500.000	-48.85	≤-41.20	46.35	≤54	PASS
				Peak	2483.500	-46.23	≤-21.20	48.97	≤74	PASS
				Peak	2499.180	-41.52	≤-21.20	53.68	≤74	PASS

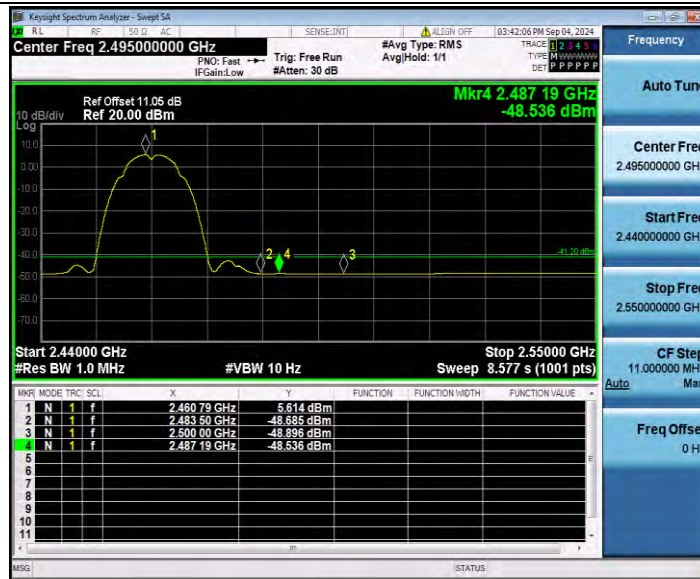
				Peak	2500.000	-47.15	≤-21.20	48.05	≤74	PASS
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Note:

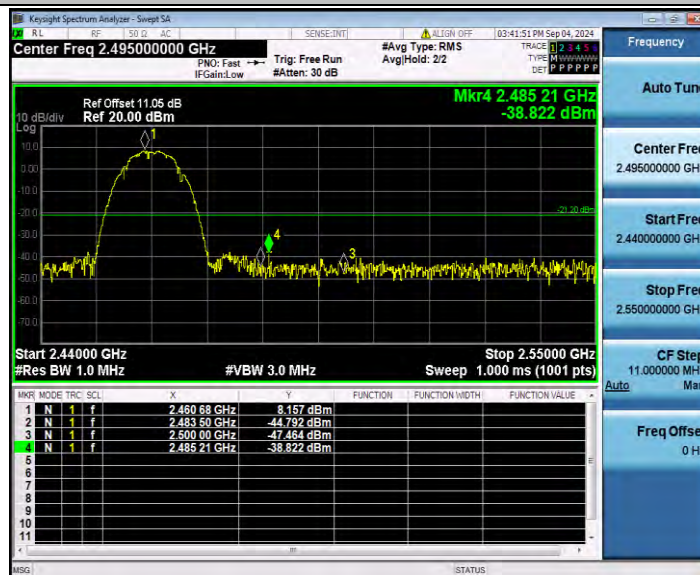
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

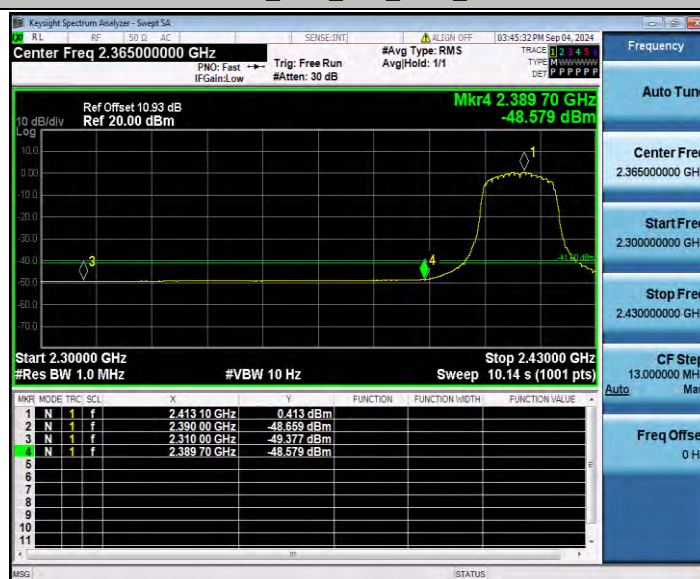




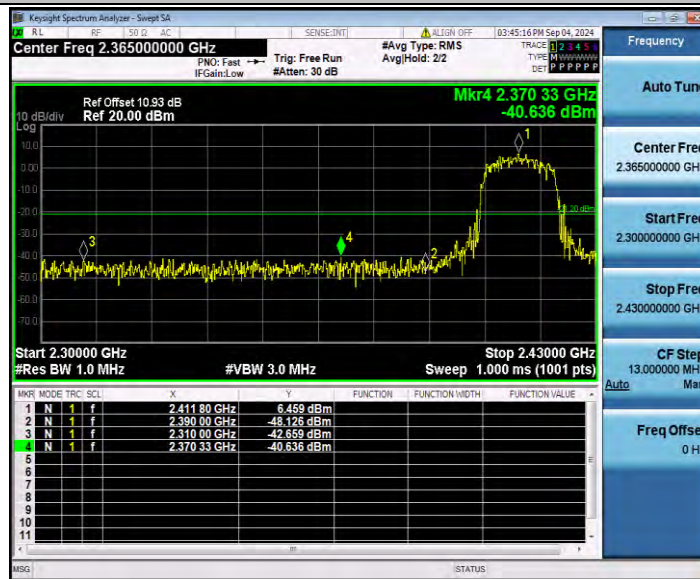
11B_Ant1_High_2462_Peak



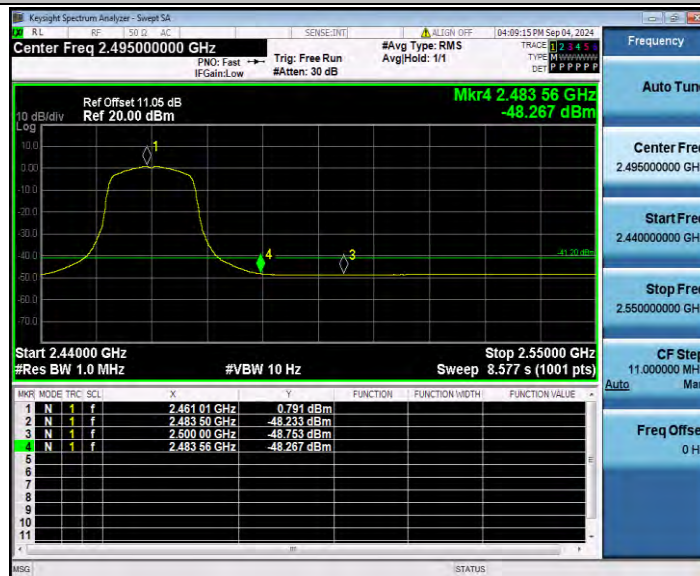
11G_Ant1_Low_2412_AV



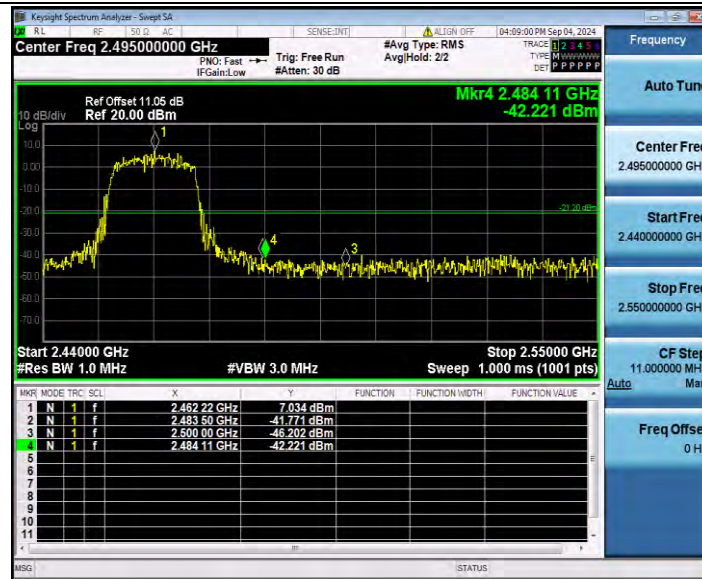
11G_Ant1_Low_2412_Peak



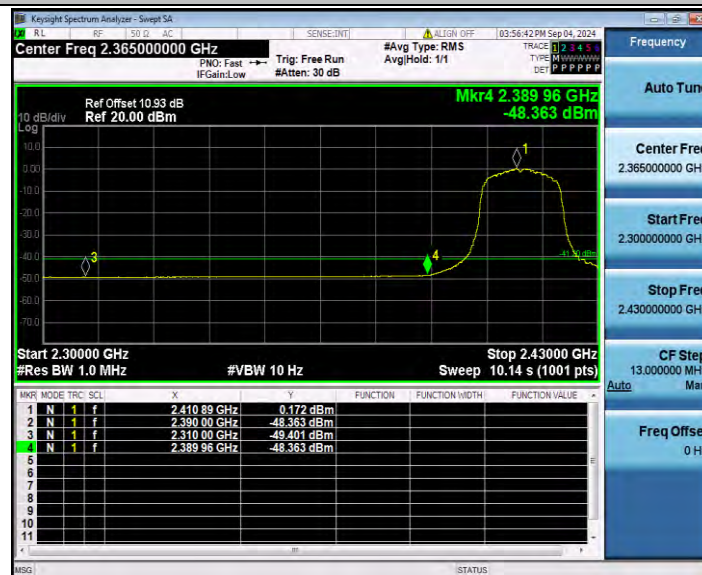
11G_Ant1_High_2462_AV



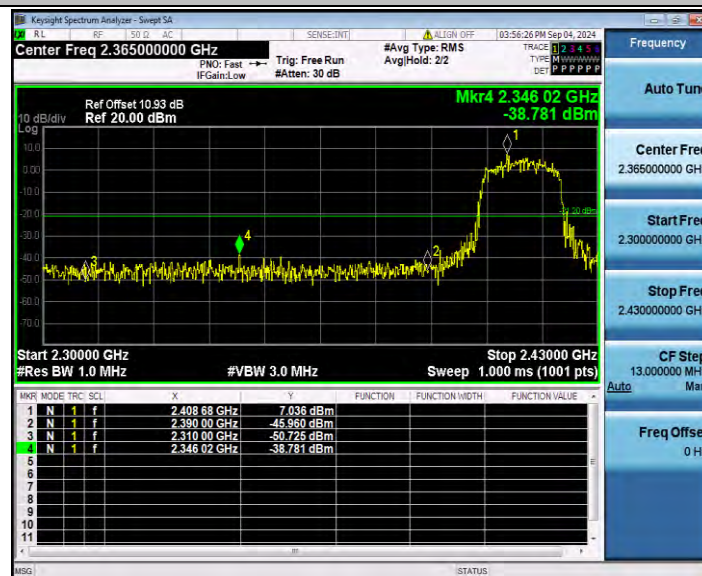
11G_Ant1_High_2462_Peak



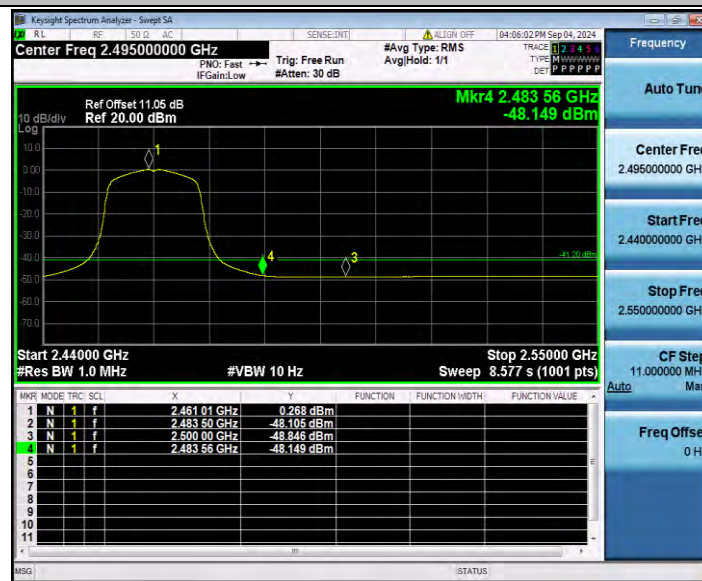
11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak

