

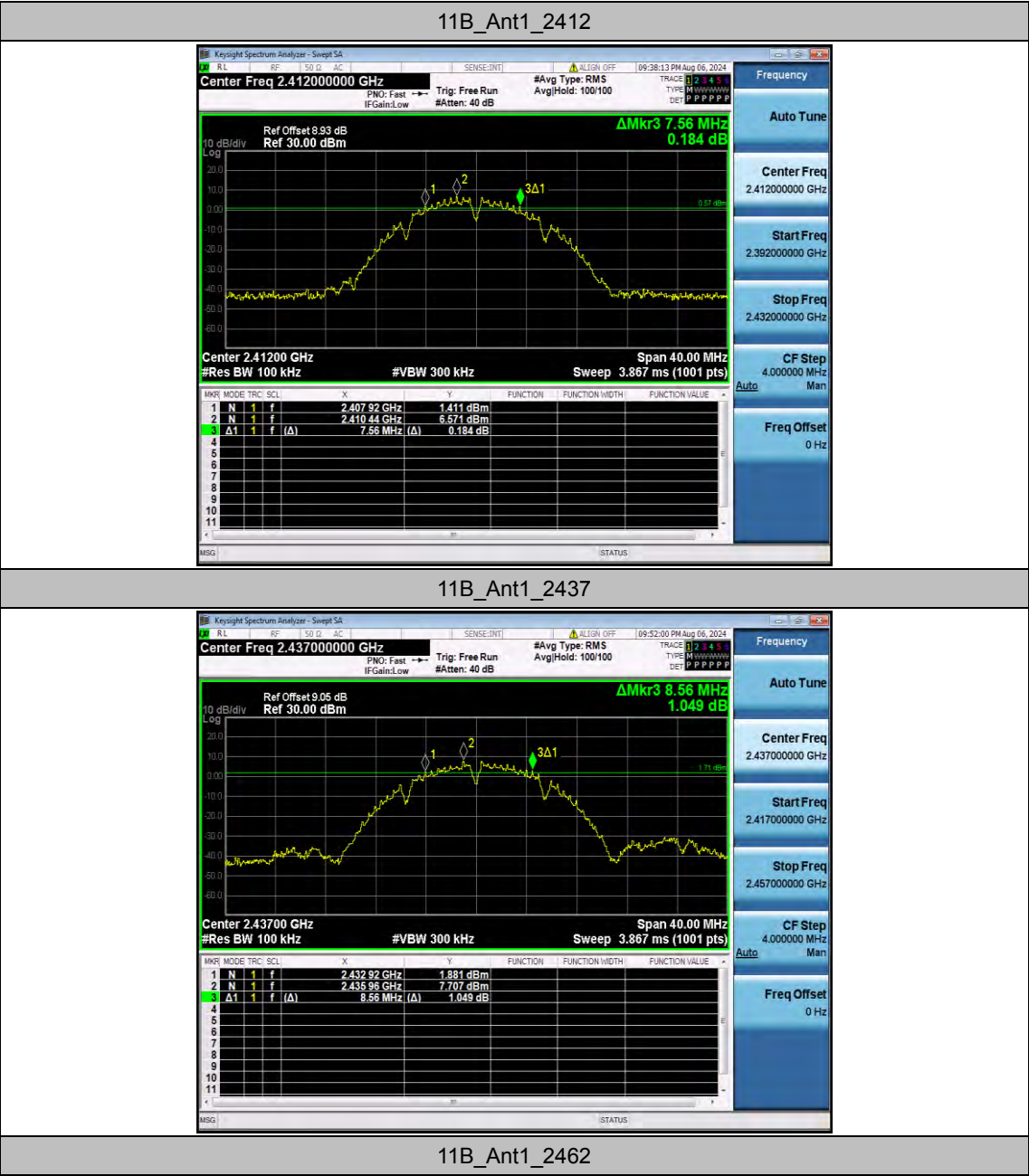
Case No. : <u>CTA24071502203</u>	
Ambient Condition: <u>23</u> °C, <u>51</u> %RH,	
Test Date: <u>2024.8.6</u>	Test Engineer: <u>Lushan Kong</u>

Appendix C.1: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.560	2407.920	2415.480	0.5	PASS
		2437	8.560	2432.920	2441.480	0.5	PASS
		2462	8.080	2457.440	2465.520	0.5	PASS
11G	Ant1	2412	16.280	2403.800	2420.080	0.5	PASS
		2437	16.320	2428.800	2445.120	0.5	PASS
		2462	16.360	2453.760	2470.120	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.160	2420.720	0.5	PASS
		2437	17.600	2428.160	2445.760	0.5	PASS
		2462	17.640	2453.160	2470.800	0.5	PASS

Test Graphs



11B_Ant1_2437

Frequency

Auto Tune

Center Freq
2.43700000 GHzStart Freq
2.417000000 GHzStop Freq
2.457000000 GHzCF Step
4.000000 MHz
Auto ManFreq Offset
0 Hz

11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

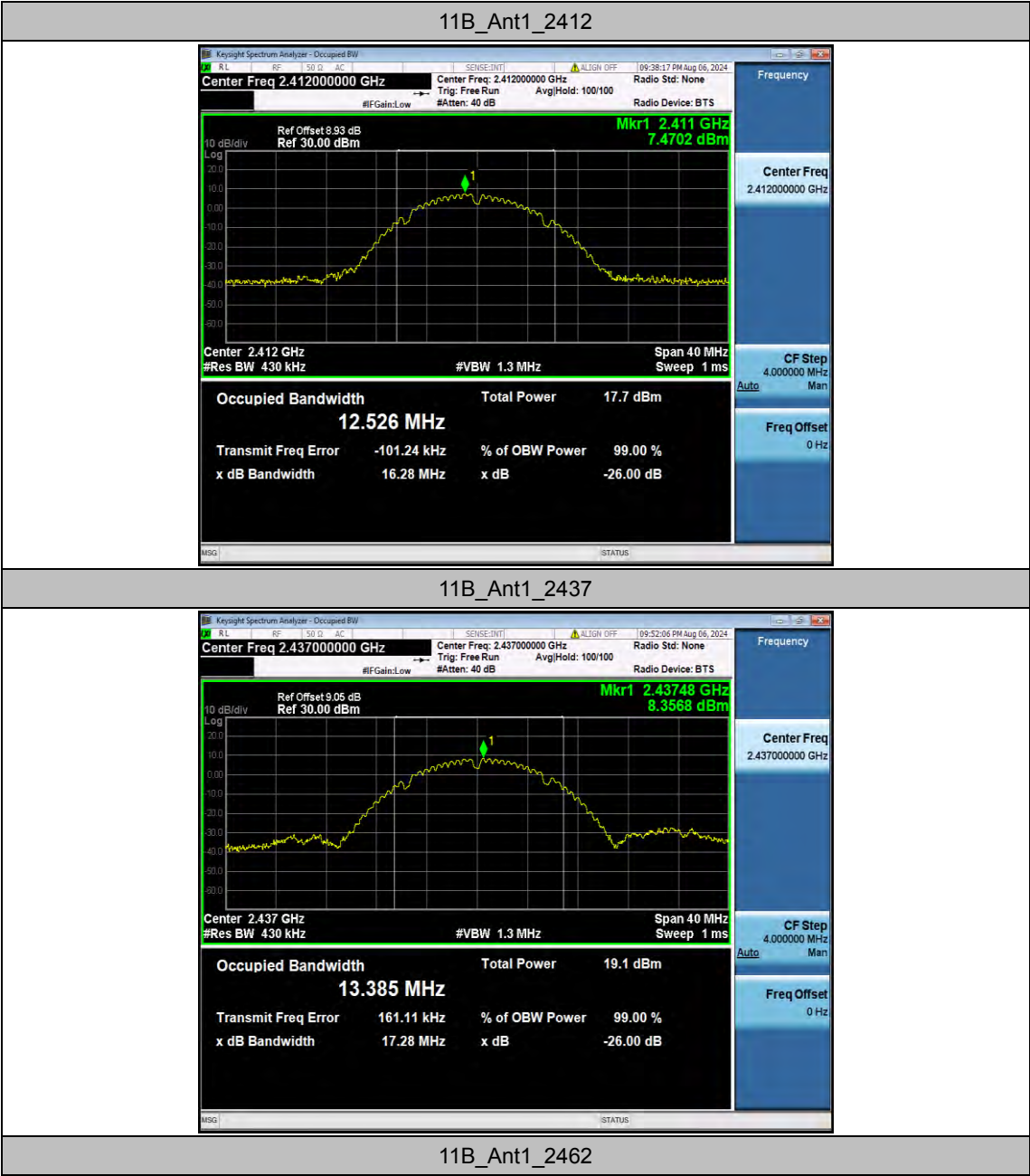


Appendix C.2: Occupied Channel Bandwidth

Test Result

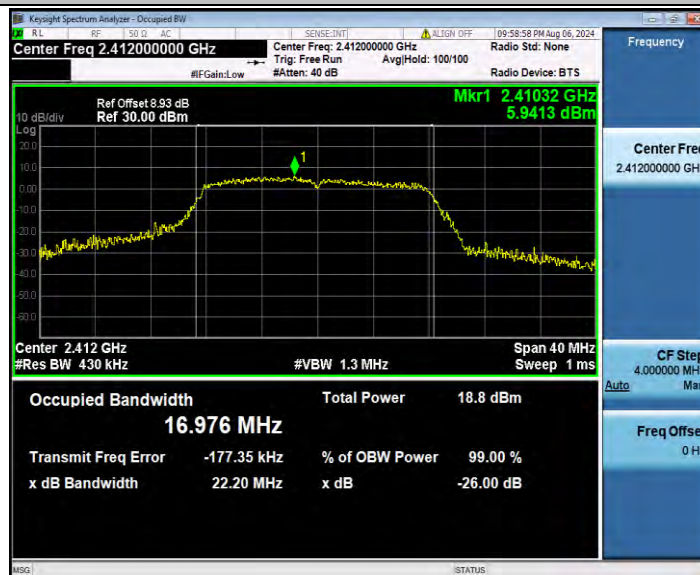
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.526	2405.6358	2418.1618	---	---
		2437	13.385	2430.4686	2443.8536	---	---
		2462	13.160	2455.2083	2468.3683	---	---
11G	Ant1	2412	16.976	2403.3347	2420.3107	---	---
		2437	17.017	2428.5266	2445.5436	---	---
		2462	16.848	2453.5255	2470.3735	---	---
11N20SISO	Ant1	2412	17.893	2402.9176	2420.8106	---	---
		2437	18.023	2428.0209	2446.0439	---	---
		2462	17.866	2453.0519	2470.9179	---	---

Test Graphs





11G_Ant1_2412



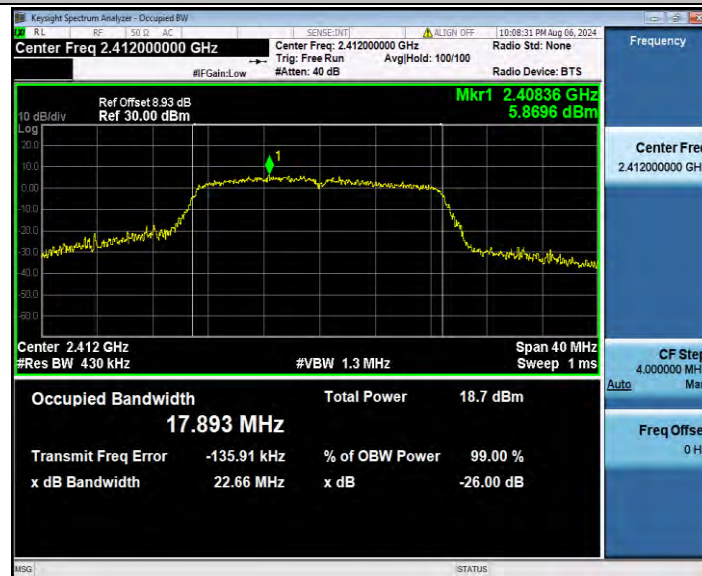
11G_Ant1_2437



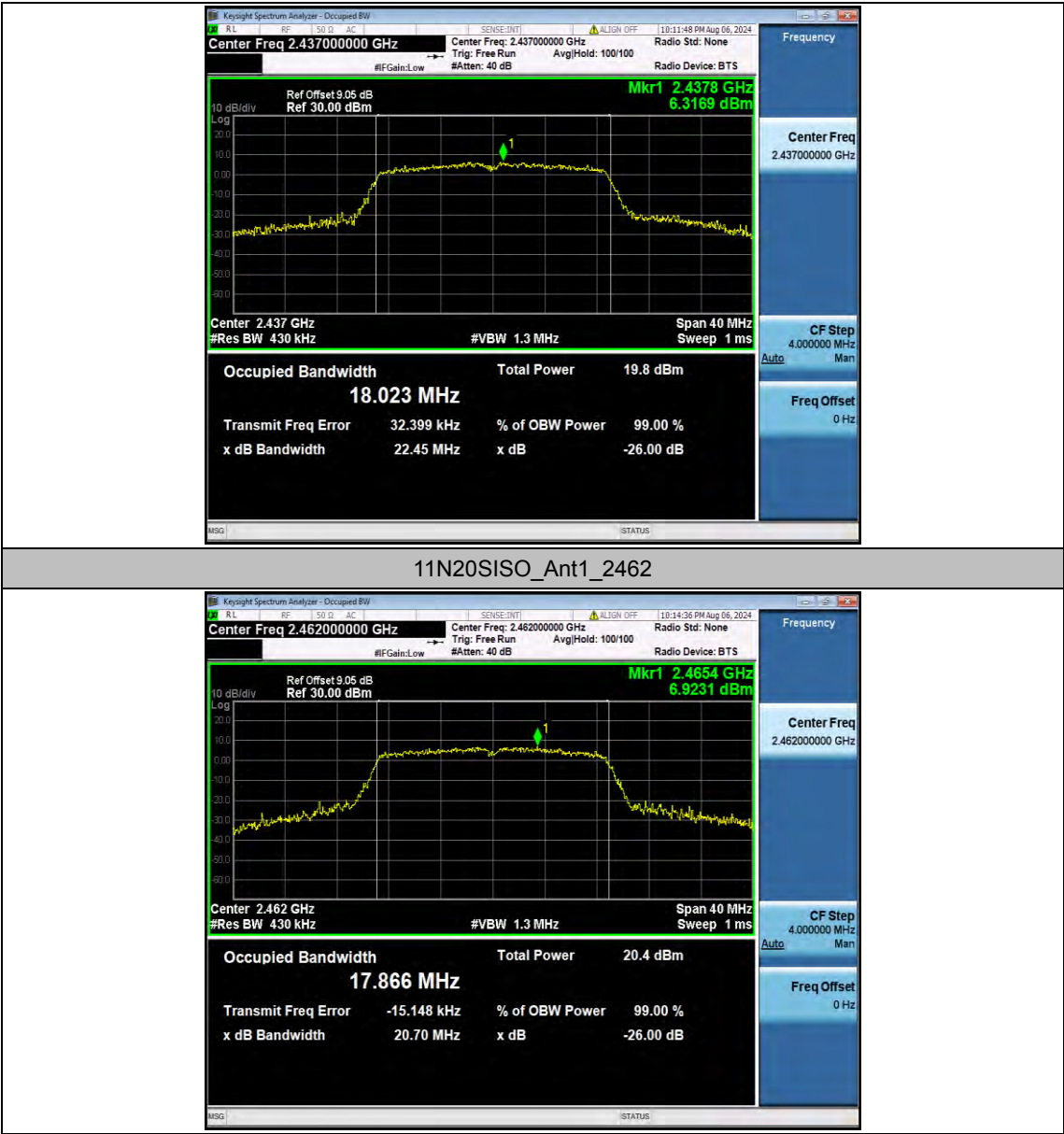
11G_Ant1_2462



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	18.66	≤30.00	PASS
		2437	19.16	≤30.00	PASS
		2462	19.75	≤30.00	PASS
11G	Ant1	2412	21.19	≤30.00	PASS
		2437	21.87	≤30.00	PASS
		2462	21.62	≤30.00	PASS
11N20SISO	Ant1	2412	19.88	≤30.00	PASS
		2437	20.99	≤30.00	PASS
		2462	20.50	≤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	-6.77	≤8.00	PASS
		2437	-5.98	≤8.00	PASS
		2462	-6.09	≤8.00	PASS
11G	Ant1	2412	-11.47	≤8.00	PASS
		2437	-10.87	≤8.00	PASS
		2462	-11.10	≤8.00	PASS
11N20SISO	Ant1	2412	-12.43	≤8.00	PASS
		2437	-10.05	≤8.00	PASS
		2462	-10.12	≤8.00	PASS

Test Graphs

11B_Ant1_2412



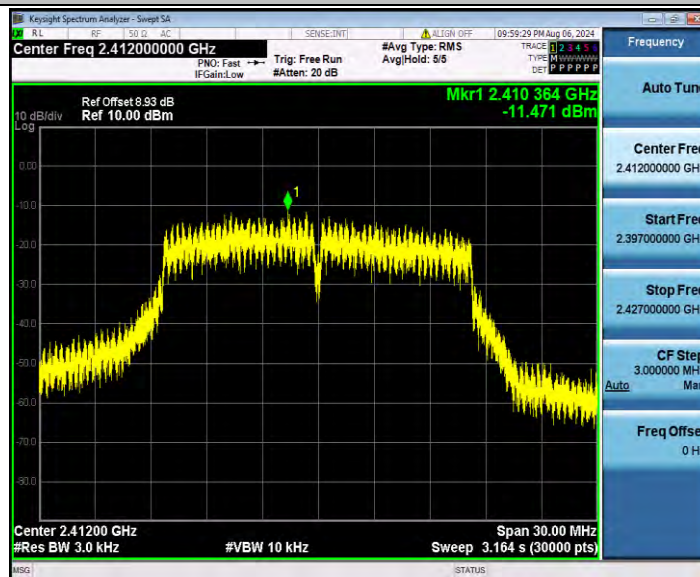
11B_Ant1_2437



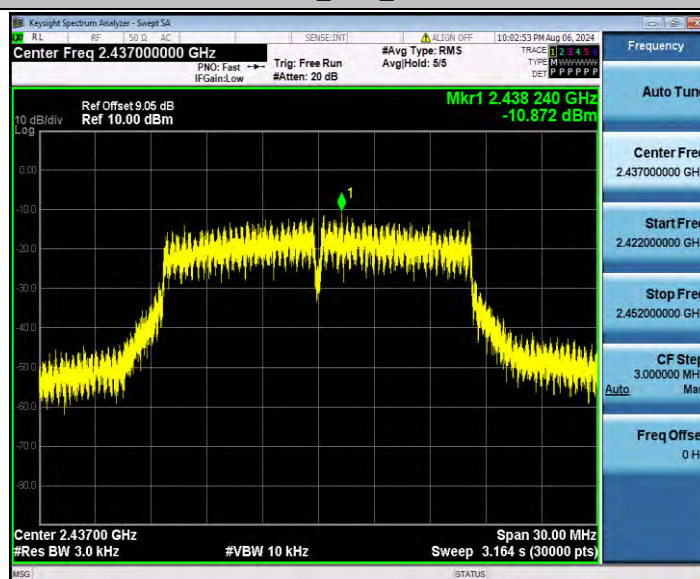
11B_Ant1_2462



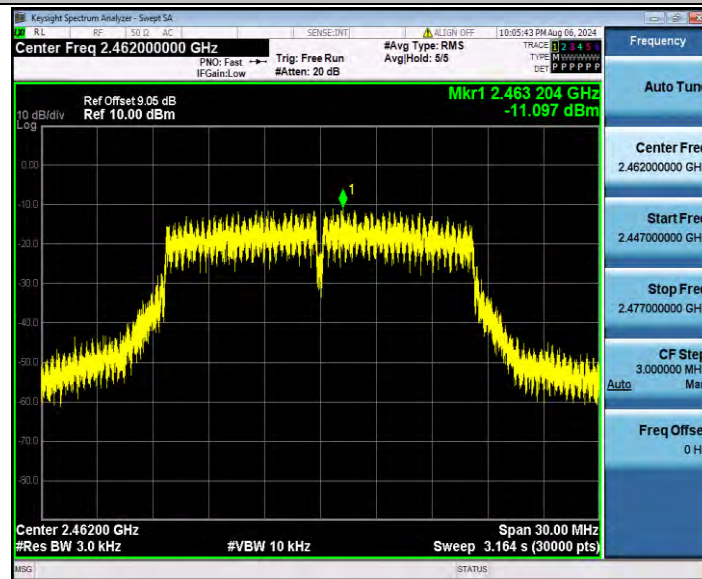
11G_Ant1_2412



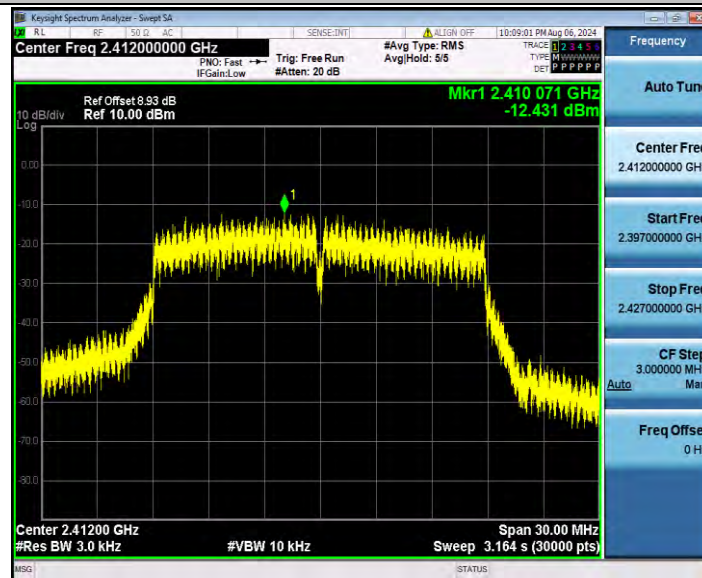
11G_Ant1_2437



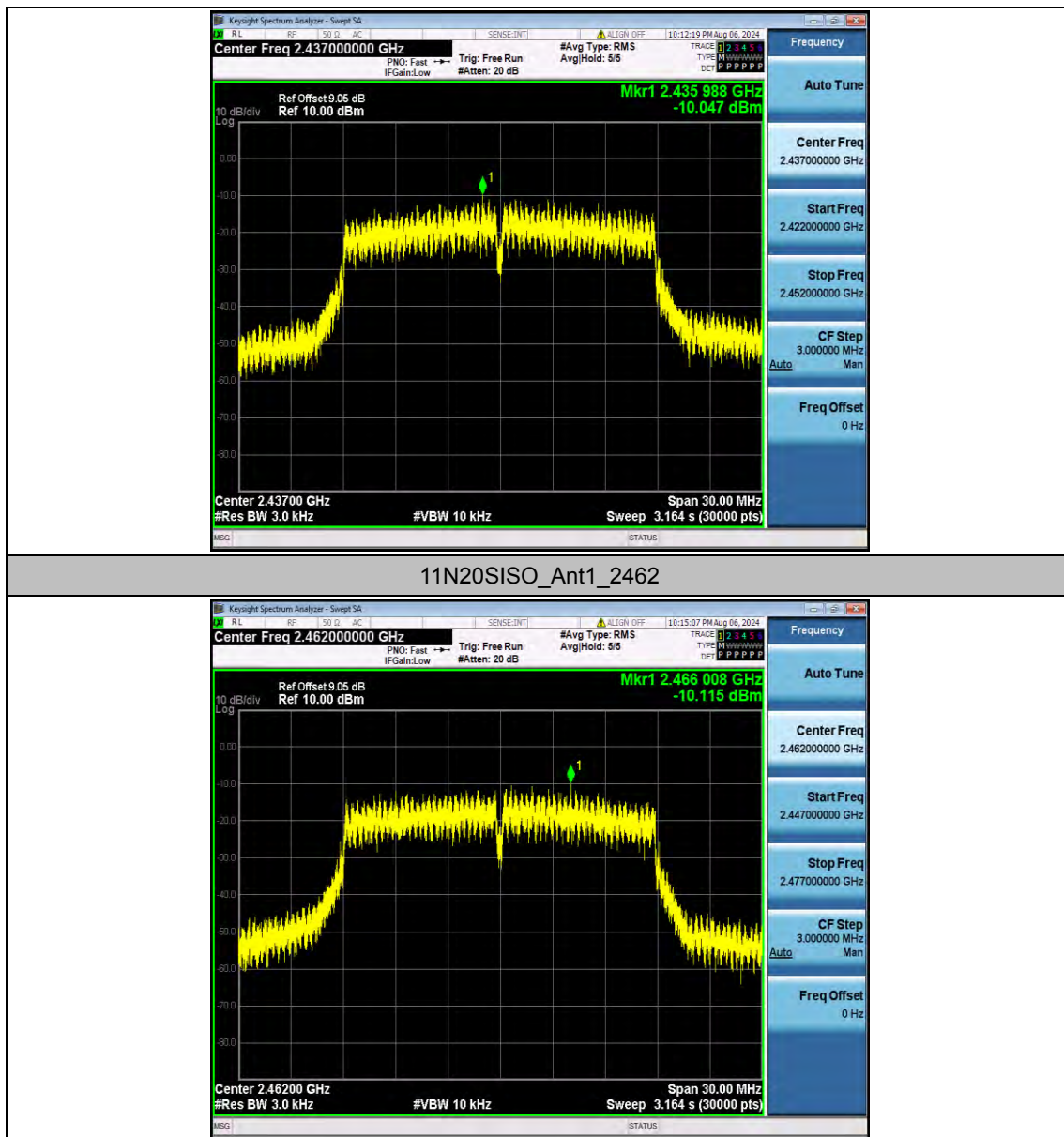
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

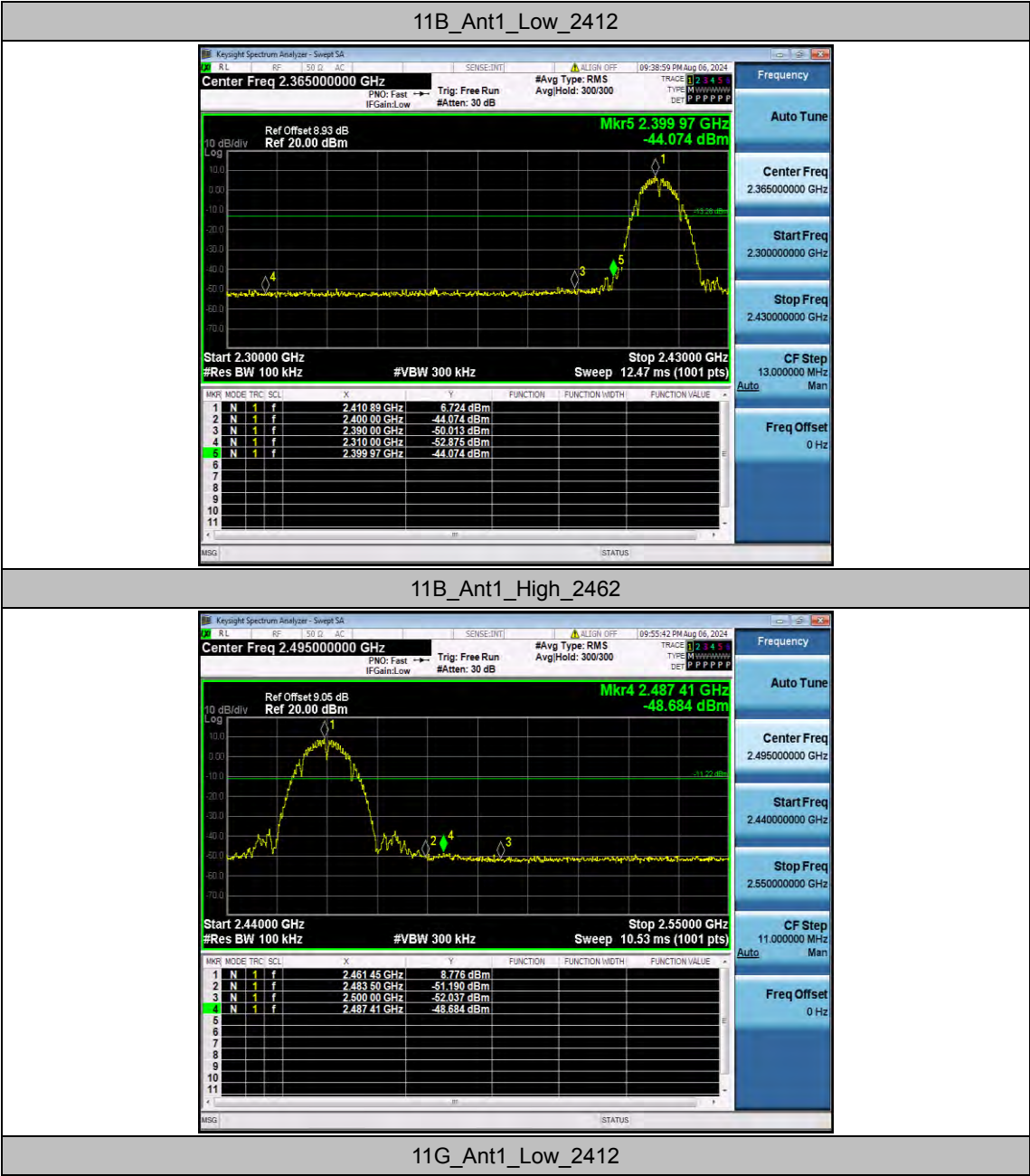


Appendix C.5: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.72	-44.07	≤ -13.28	PASS
		High	2462	8.78	-48.68	≤ -11.22	PASS
11G	Ant1	Low	2412	0.05	-24.88	≤ -19.95	PASS
		High	2462	1.14	-41.23	≤ -18.86	PASS
11N20SISO	Ant1	Low	2412	-0.07	-26.28	≤ -20.07	PASS
		High	2462	1.44	-38.37	≤ -18.56	PASS

Test Graphs



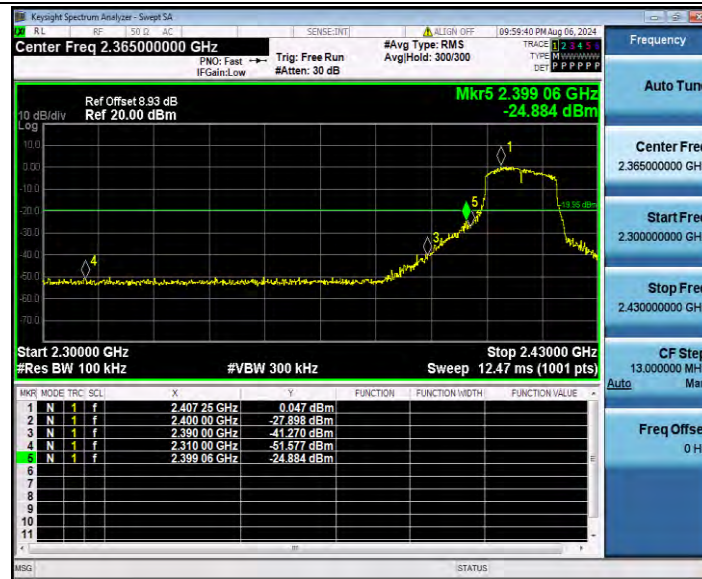
11B_Ant1_High_2462

Frequency

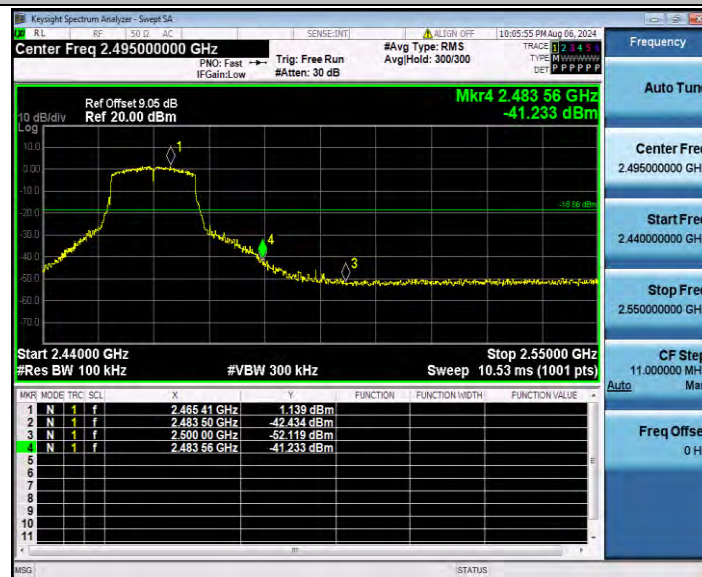
Auto Tune

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

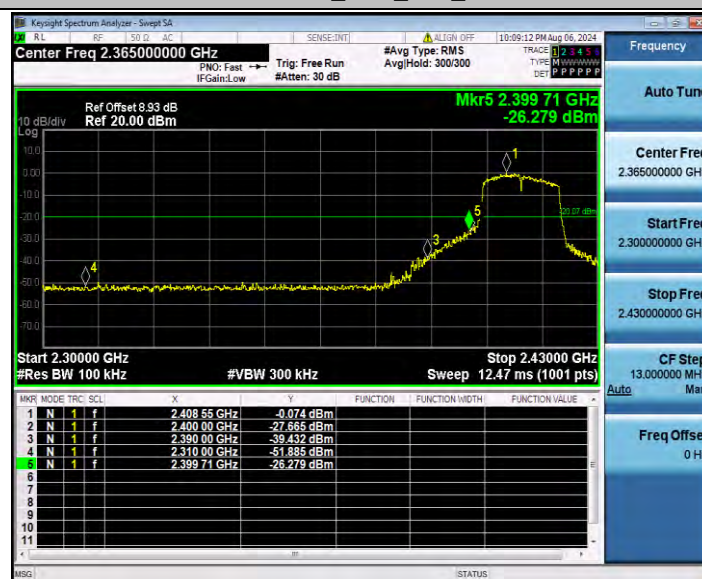
11G_Ant1_Low_2412



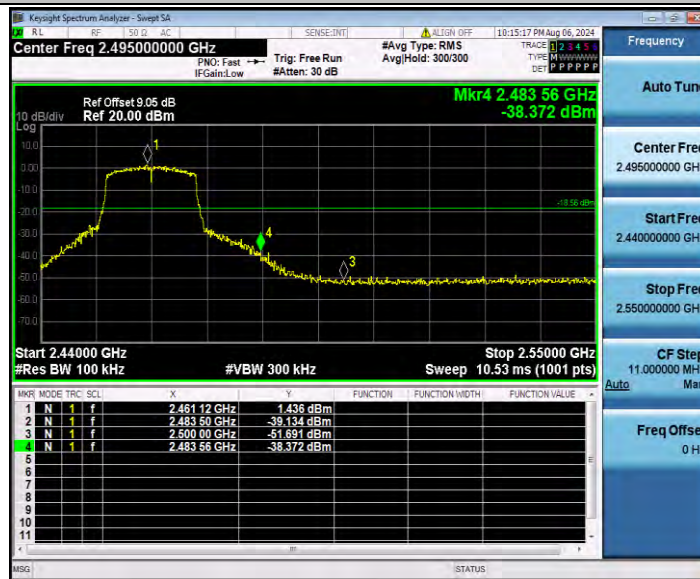
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462

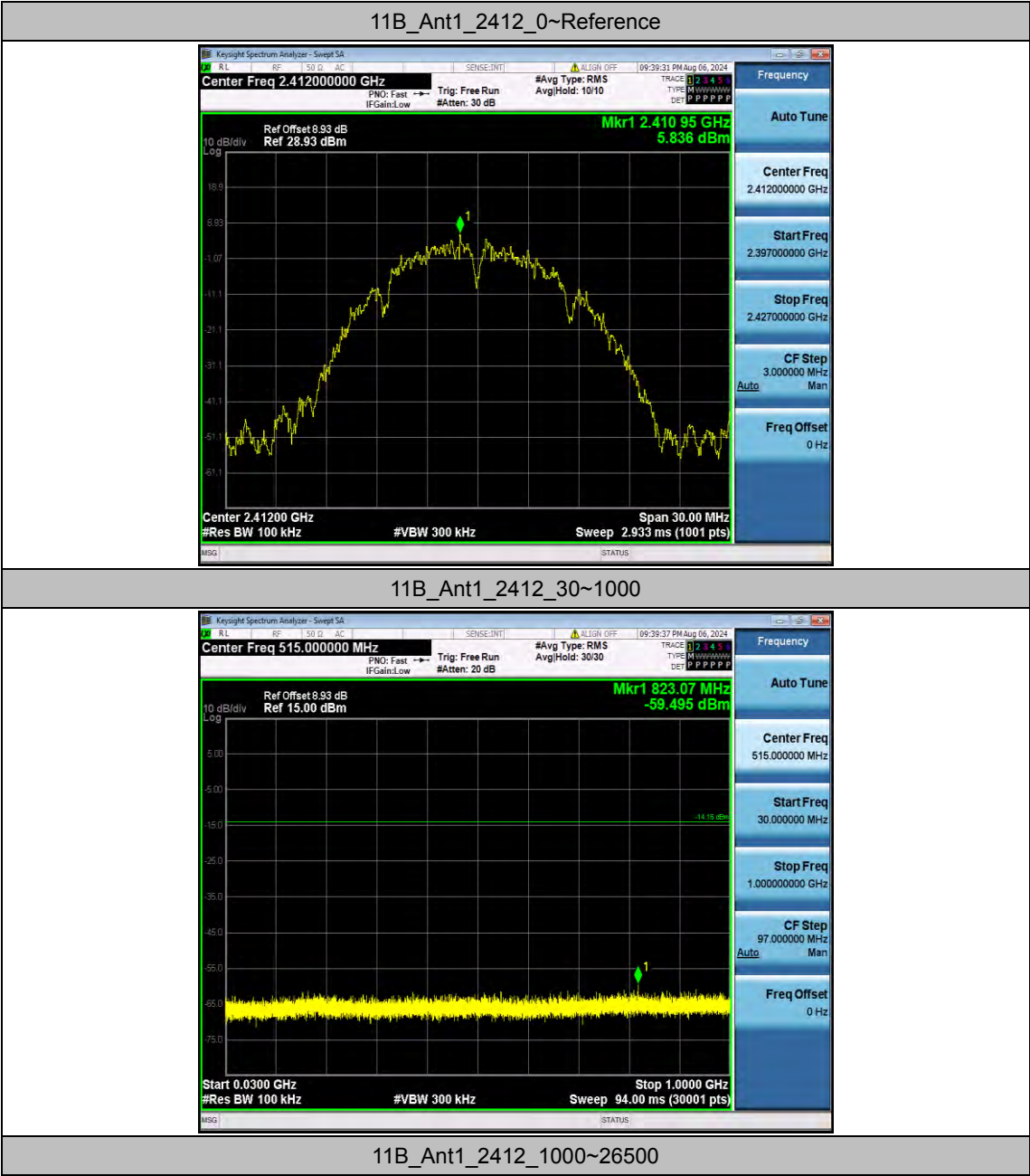


Appendix C.6: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.84	5.84	---	PASS
			30~1000	5.84	-59.5	≤ -14.16	PASS
			1000~26500	5.84	-47.67	≤ -14.16	PASS
		2437	Reference	6.96	6.96	---	PASS
			30~1000	6.96	-60.45	≤ -13.04	PASS
			1000~26500	6.96	-38.32	≤ -13.04	PASS
		2462	Reference	6.36	6.36	---	PASS
			30~1000	6.36	-60.2	≤ -13.64	PASS
			1000~26500	6.36	-43.52	≤ -13.64	PASS
11G	Ant1	2412	Reference	-0.68	-0.68	---	PASS
			30~1000	-0.68	-59.21	≤ -20.68	PASS
			1000~26500	-0.68	-47.64	≤ -20.68	PASS
		2437	Reference	-0.28	-0.28	---	PASS
			30~1000	-0.28	-60.27	≤ -20.28	PASS
			1000~26500	-0.28	-47.57	≤ -20.28	PASS
		2462	Reference	0.87	0.87	---	PASS
			30~1000	0.87	-50.32	≤ -19.13	PASS
			1000~26500	0.87	-47.18	≤ -19.13	PASS
11N20SISO	Ant1	2412	Reference	-0.85	-0.85	---	PASS
			30~1000	-0.85	-52.81	≤ -20.85	PASS
			1000~26500	-0.85	-47.91	≤ -20.85	PASS
		2437	Reference	-0.20	-0.20	---	PASS
			30~1000	-0.20	-57.03	≤ -20.2	PASS
			1000~26500	-0.20	-47.35	≤ -20.2	PASS
		2462	Reference	0.02	0.02	---	PASS
			30~1000	0.02	-60.41	≤ -19.98	PASS
			1000~26500	0.02	-47.17	≤ -19.98	PASS

Test Graphs

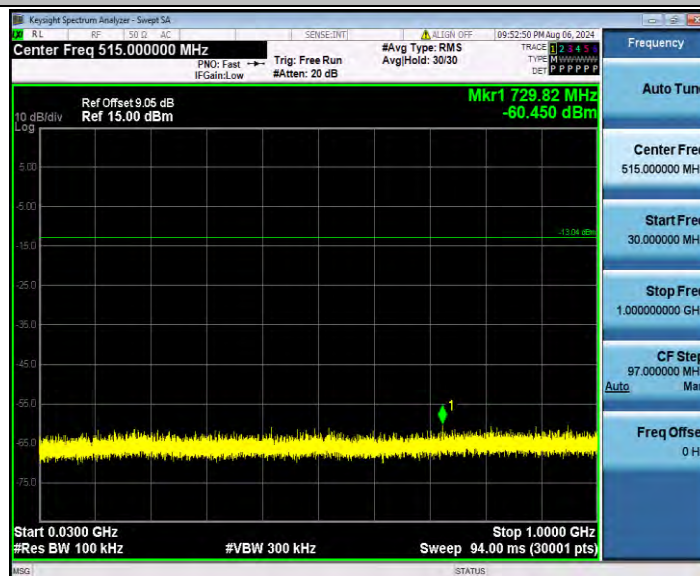




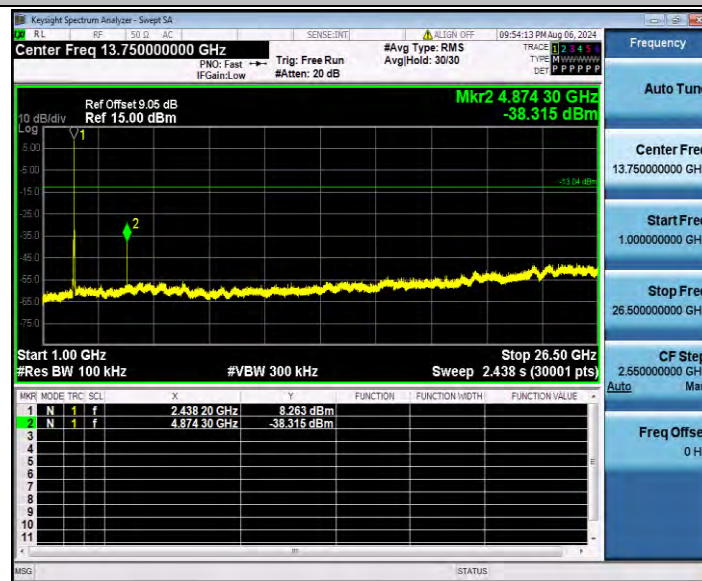
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



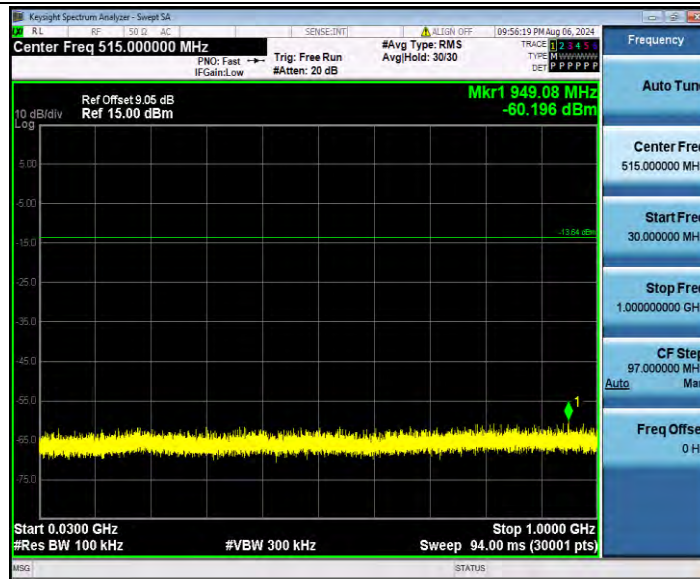
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



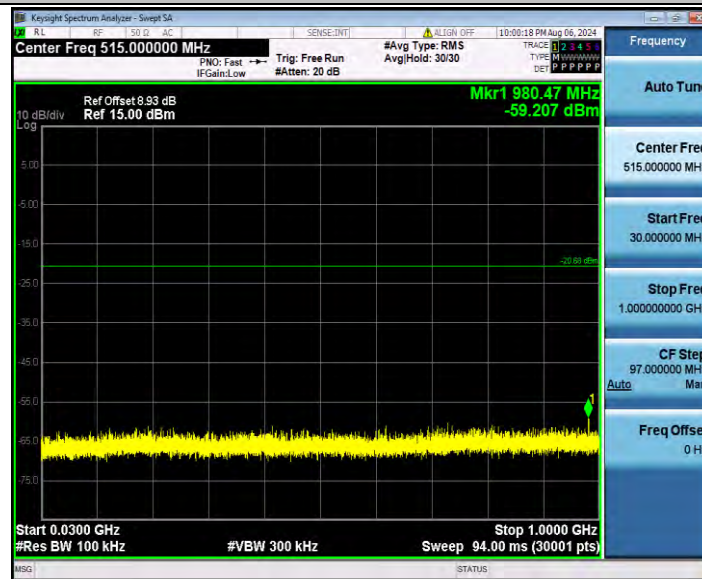
11B_Ant1_2462_1000~26500



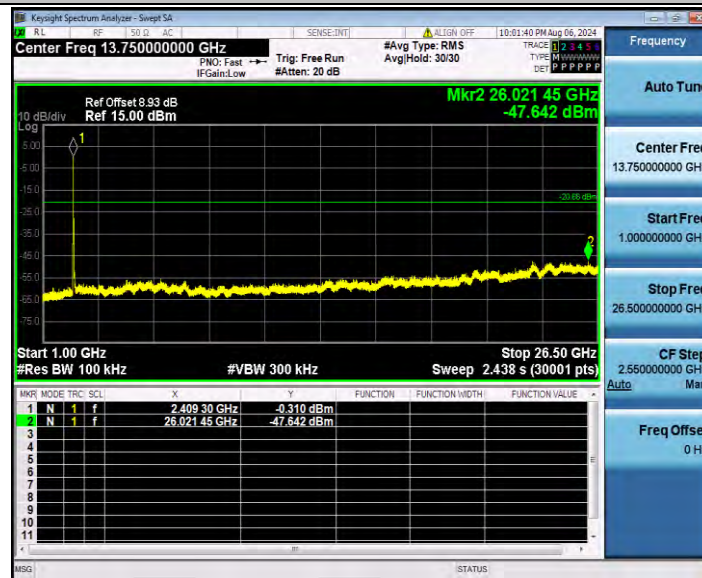
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



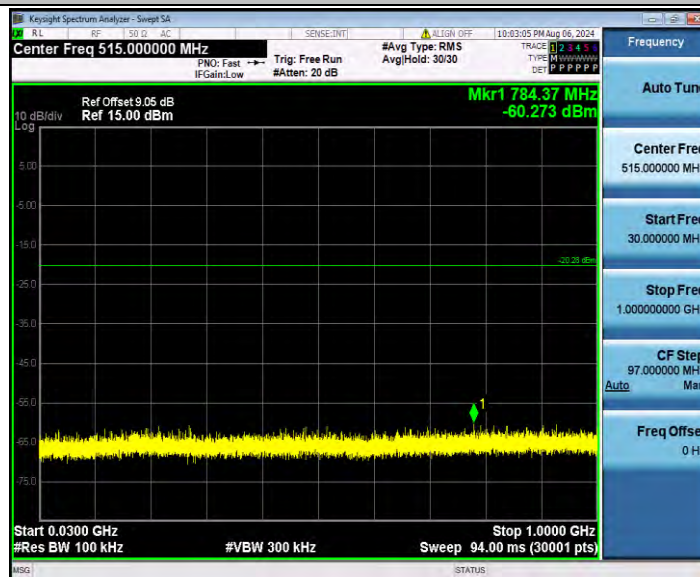
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



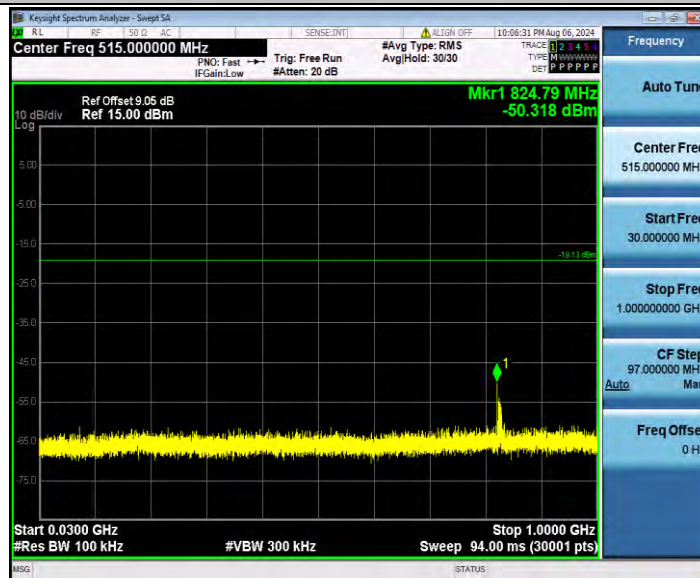
11G_Ant1_2437_1000~26500



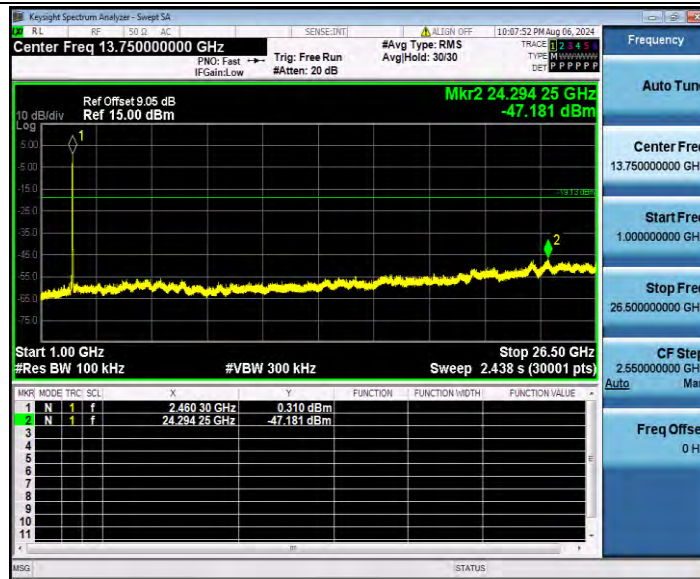
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



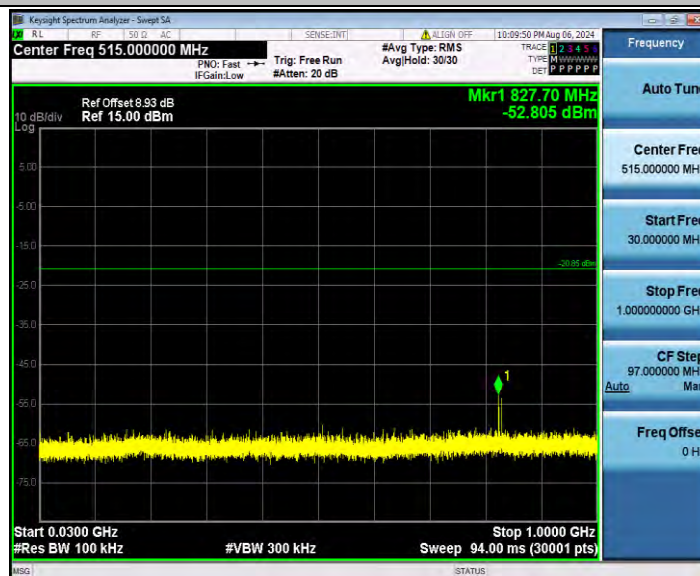
11G_Ant1_2462_1000~26500



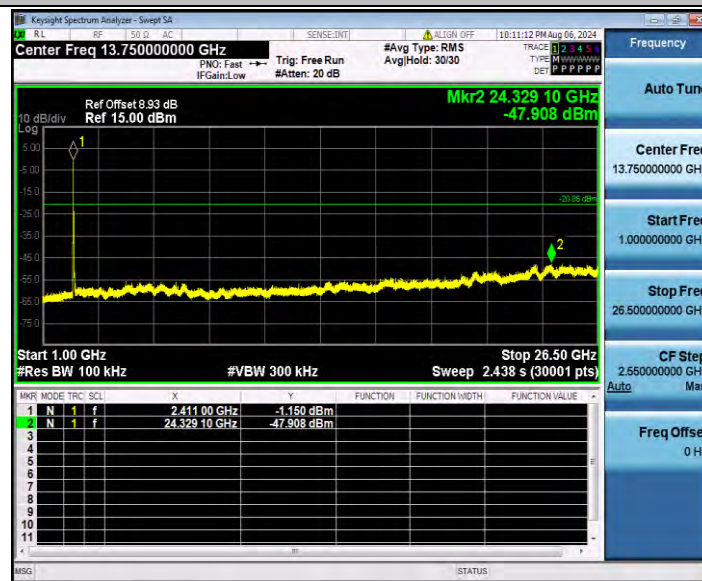
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



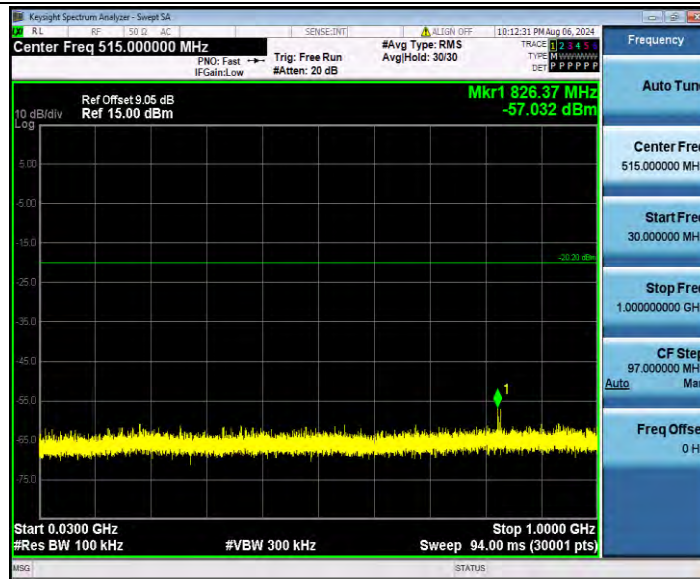
11N20SISO_Ant1_2412_1000~26500



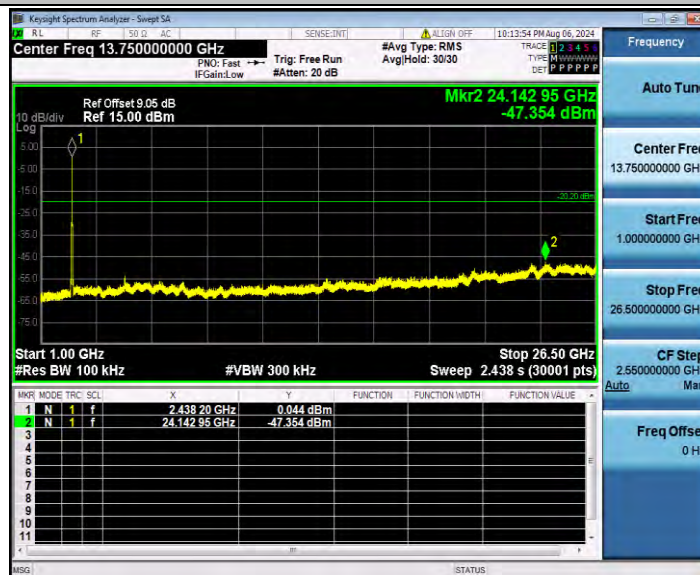
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

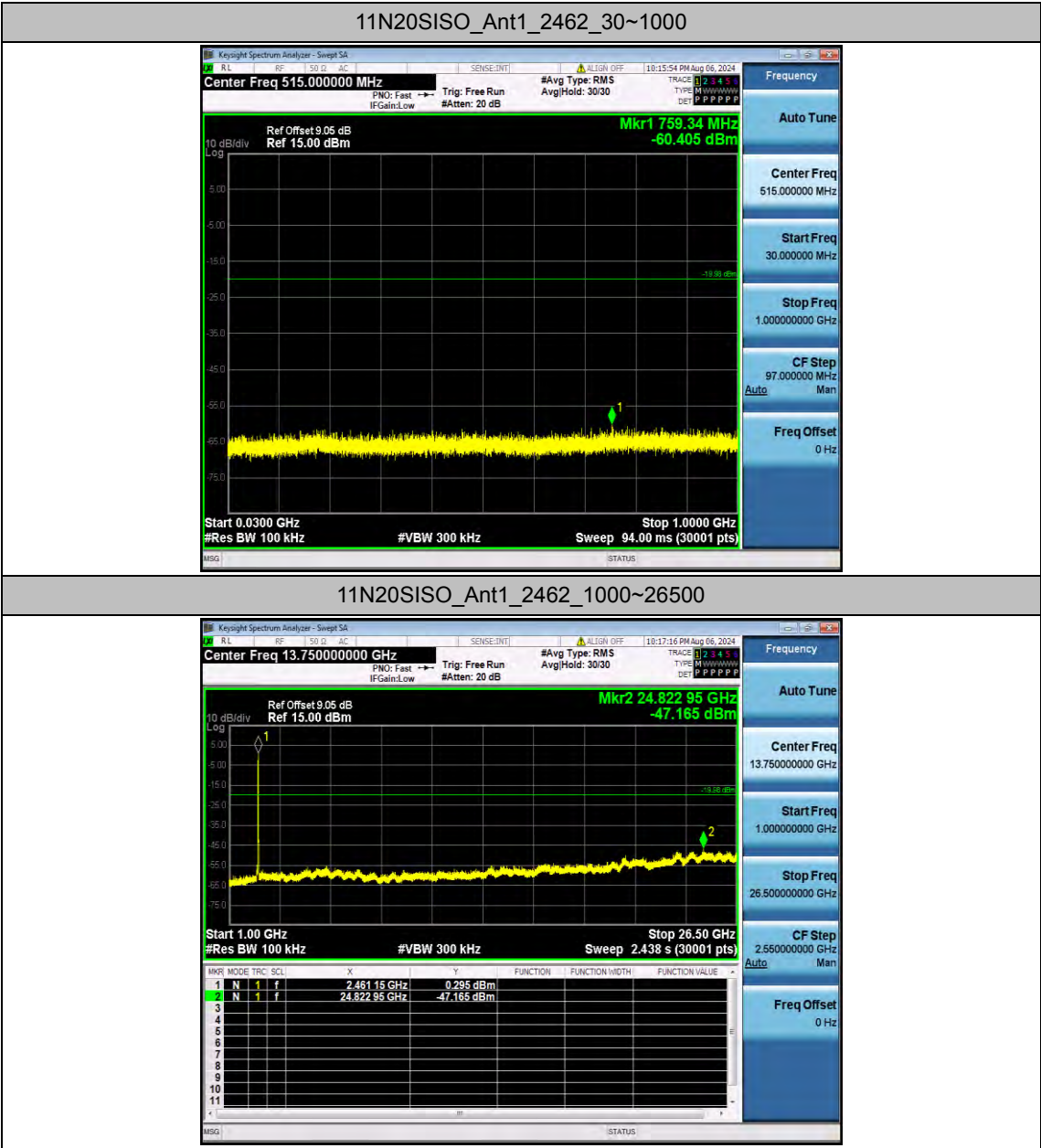


11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference





Appendix C.7: Emissions in Restricted Bands

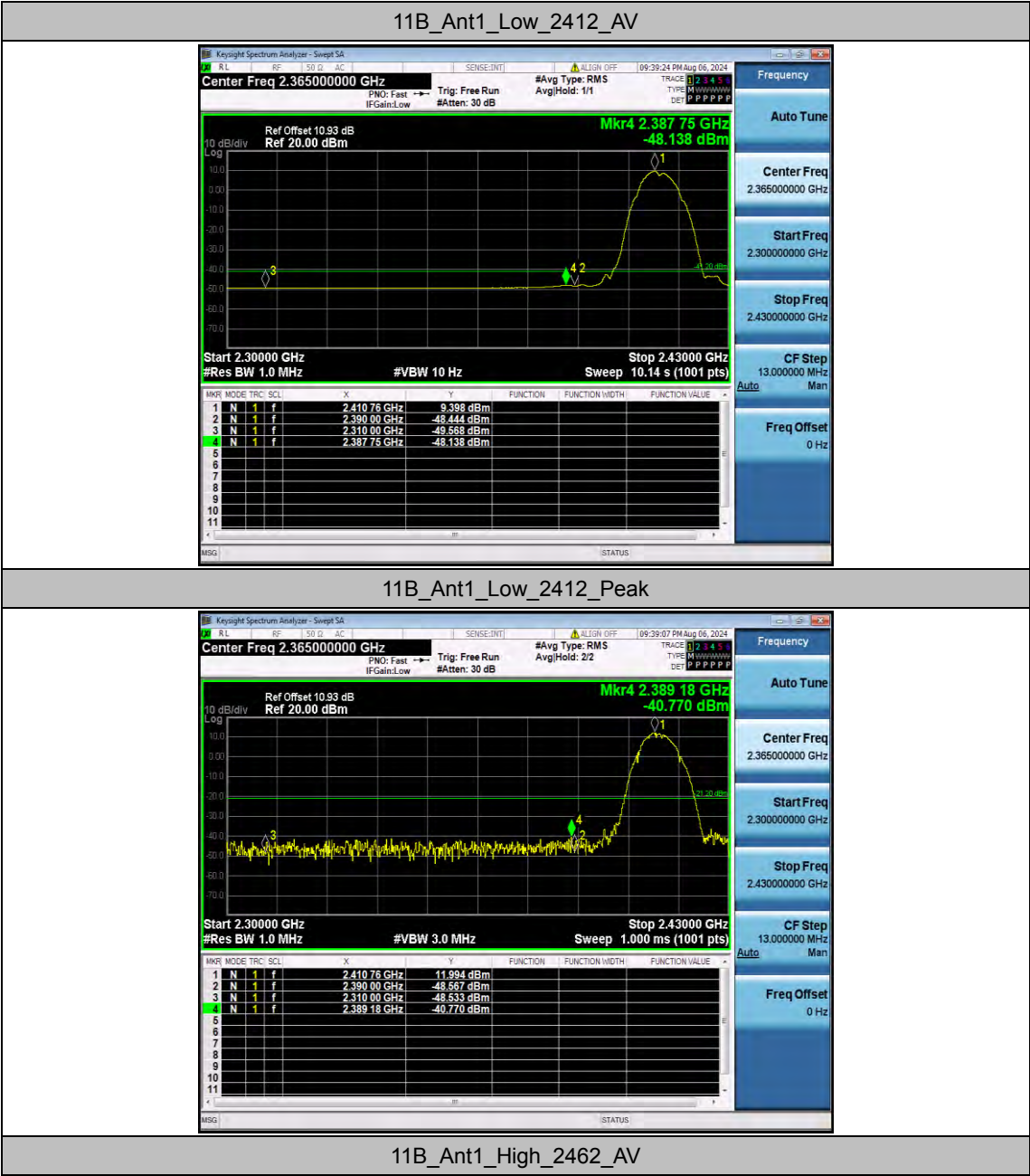
Test Result

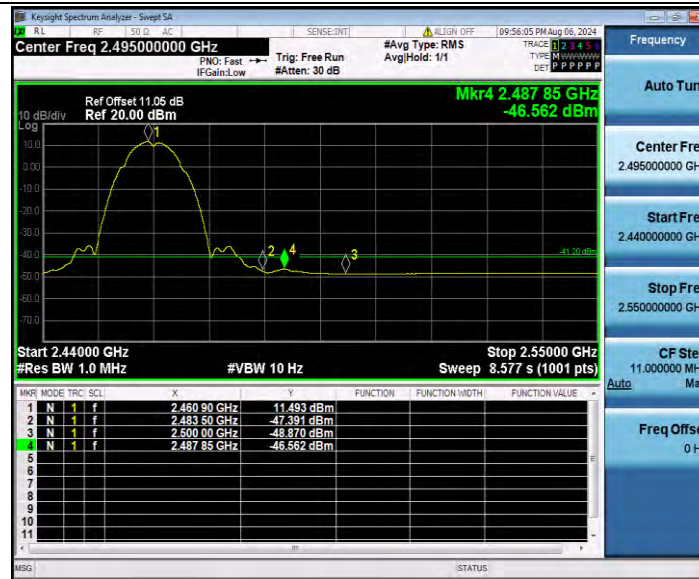
TestMode	Antenna	ChName	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.57	≤-41.20	45.63	≤54	PASS
				AV	2387.750	-48.14	≤-41.20	47.06	≤54	PASS
				AV	2390.000	-48.44	≤-41.20	46.76	≤54	PASS
				Peak	2310.000	-48.53	≤-21.20	46.67	≤74	PASS
				Peak	2389.180	-40.77	≤-21.20	54.43	≤74	PASS
				Peak	2390.000	-48.57	≤-21.20	46.63	≤74	PASS
		High	2462	AV	2483.500	-47.39	≤-41.20	47.81	≤54	PASS
				AV	2487.850	-46.56	≤-41.20	48.64	≤54	PASS
				AV	2500.000	-48.87	≤-41.20	46.33	≤54	PASS
				Peak	2483.500	-40.74	≤-21.20	54.46	≤74	PASS
				Peak	2493.130	-39.94	≤-21.20	55.26	≤74	PASS
				Peak	2500.000	-46.42	≤-21.20	48.78	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.61	≤-41.20	45.59	≤54	PASS
				AV	2389.960	-47.53	≤-41.20	47.67	≤54	PASS
				AV	2390.000	-47.53	≤-41.20	47.67	≤54	PASS
				Peak	2310.000	-42.41	≤-21.20	52.79	≤74	PASS
				Peak	2360.320	-40.62	≤-21.20	54.58	≤74	PASS
				Peak	2390.000	-46.62	≤-21.20	48.58	≤74	PASS
		High	2462	AV	2483.500	-47.57	≤-41.20	47.63	≤54	PASS
				AV	2483.560	-47.65	≤-41.20	47.55	≤54	PASS
				AV	2500.000	-48.91	≤-41.20	46.29	≤54	PASS
				Peak	2483.500	-38.56	≤-21.20	56.64	≤74	PASS
				Peak	2486.750	-40.17	≤-21.20	55.03	≤74	PASS
				Peak	2500.000	-45.87	≤-21.20	49.33	≤74	PASS
11N20SIS O	Ant1	Low	2412	AV	2310.000	-49.63	≤-41.20	45.57	≤54	PASS
				AV	2389.960	-48.11	≤-41.20	47.09	≤54	PASS
				AV	2390.000	-48.11	≤-41.20	47.09	≤54	PASS
				Peak	2310.000	-41.7	≤-21.20	53.50	≤74	PASS
				Peak	2387.880	-40.27	≤-21.20	54.93	≤74	PASS
				Peak	2390.000	-44.69	≤-21.20	50.51	≤74	PASS
		High	2462	AV	2483.500	-47.99	≤-41.20	47.21	≤54	PASS
				AV	2483.670	-48.02	≤-41.20	47.18	≤54	PASS
				AV	2500.000	-48.91	≤-41.20	46.29	≤54	PASS
				Peak	2483.500	-44.58	≤-21.20	50.62	≤74	PASS
				Peak	2493.900	-40.42	≤-21.20	54.78	≤74	PASS
				Peak	2500.000	-47.02	≤-21.20	48.18	≤74	PASS

Note:

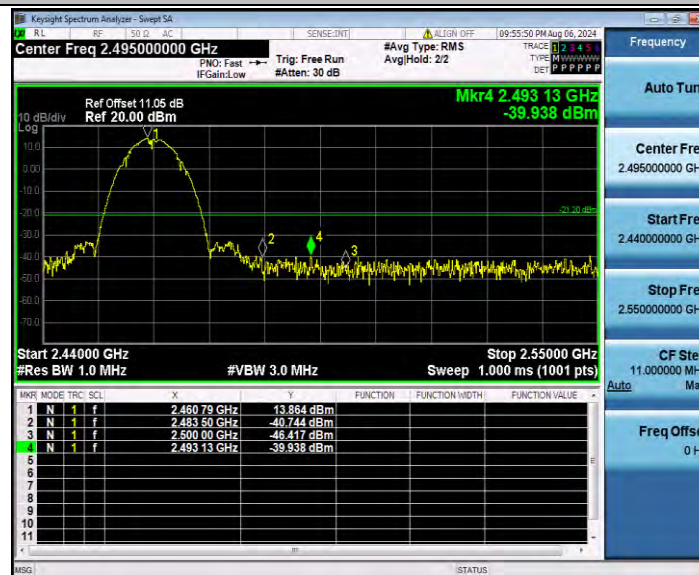
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

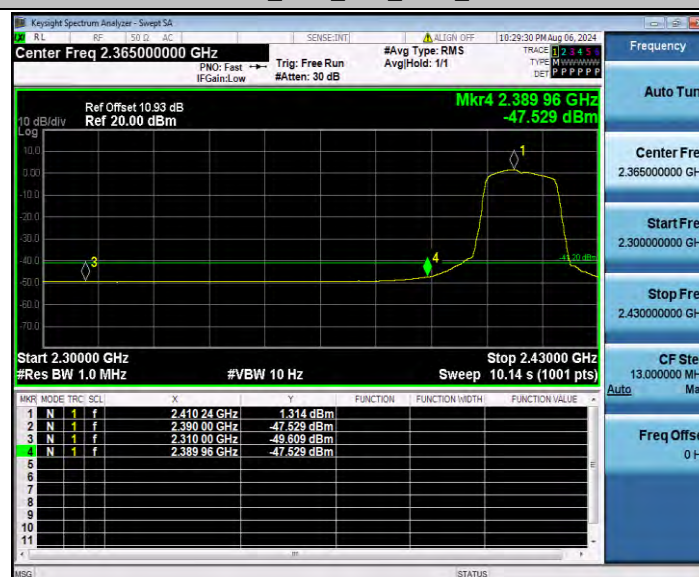




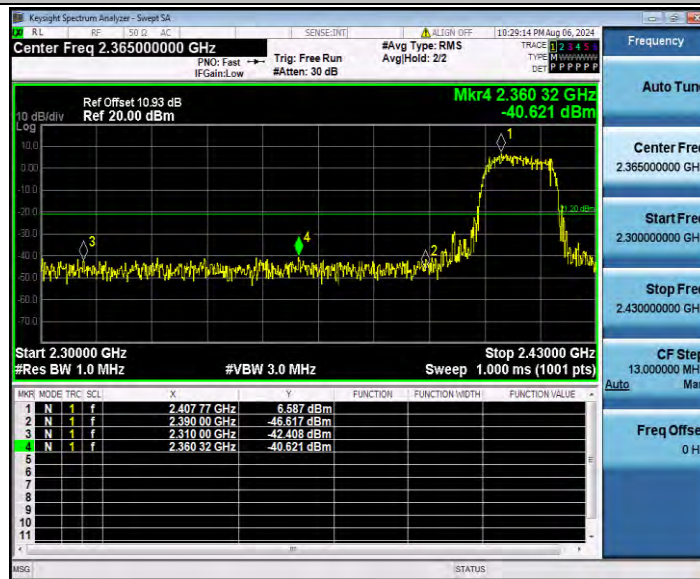
11B_Ant1_High_2462_Peak



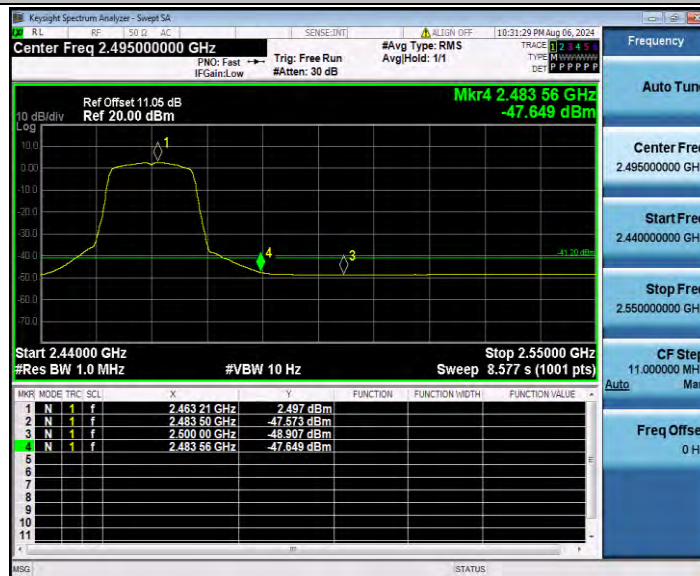
11G_Ant1_Low_2412_AV



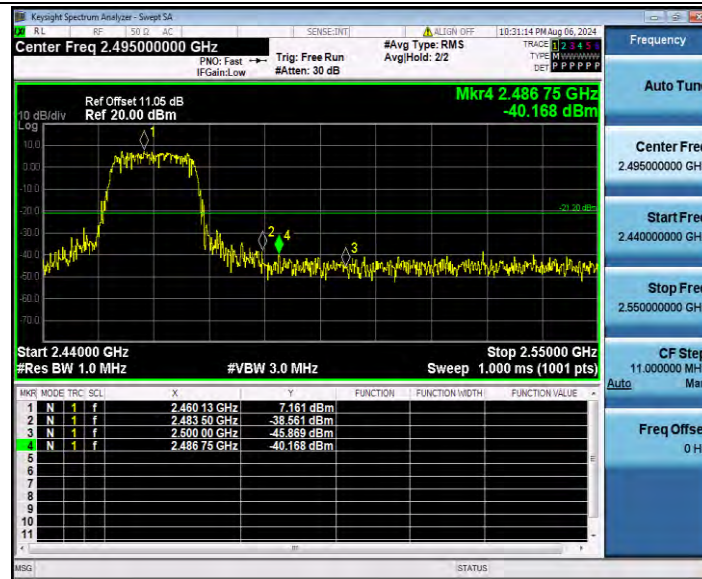
11G_Ant1_Low_2412_Peak



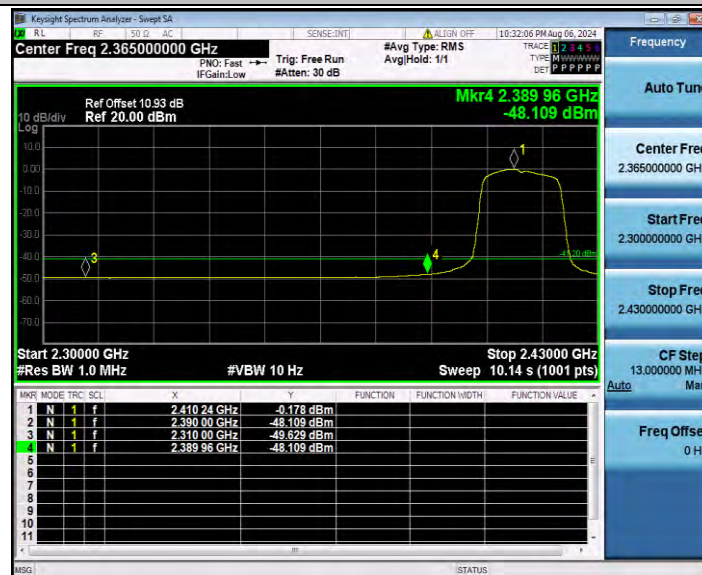
11G_Ant1_High_2462_AV



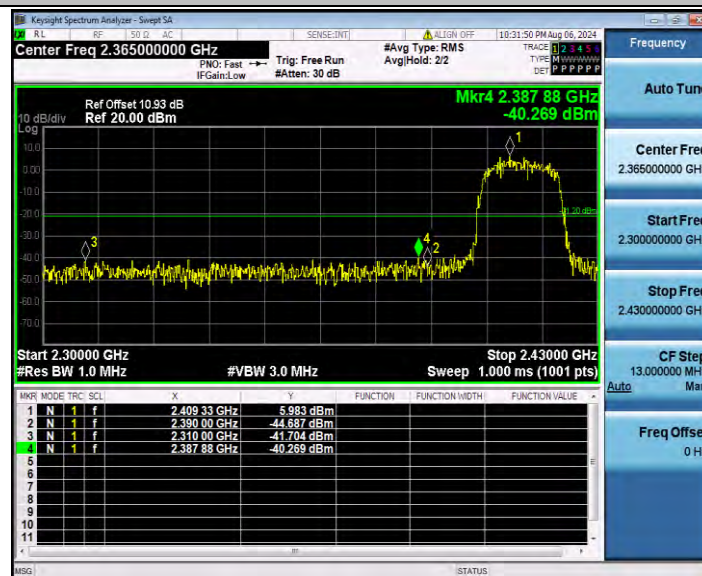
11G_Ant1_High_2462_Peak



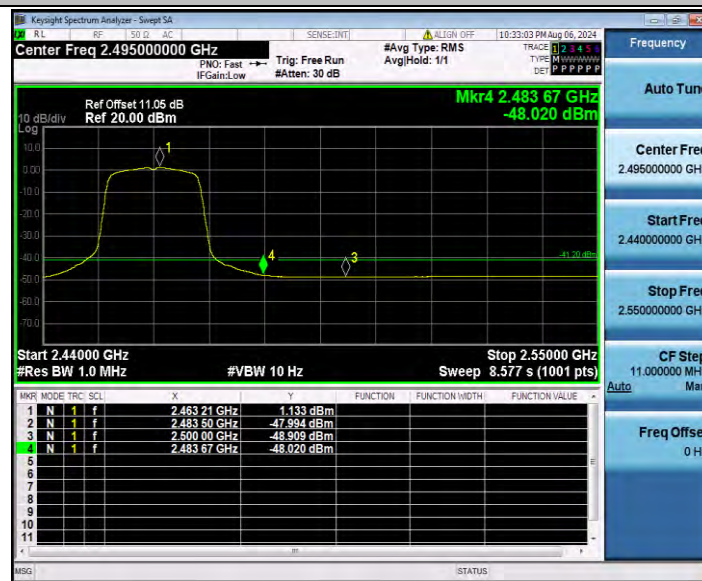
11N20SISO_Ant1_Low_2412_AV



11N20SISO_Ant1_Low_2412_Peak



11N20SISO_Ant1_High_2462_AV



11N20SISO_Ant1_High_2462_Peak

