

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2AYDA-500L

Company : Guangzhou Tang Mei Environmental Protection
Technology Co., Ltd.

EUT : Aroma Diffuser

Model Number : 500L

Report No. : CTA25111403002

Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

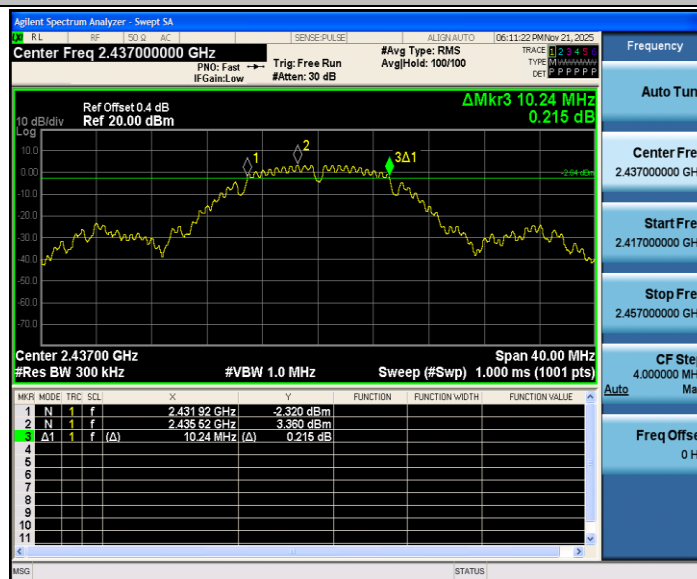
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.240	2406.920	2417.160	0.5	PASS
		2437	10.240	2431.920	2442.160	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	16.080	2403.960	2420.040	0.5	PASS
		2437	15.920	2429.080	2445.000	0.5	PASS
		2462	16.160	2453.920	2470.080	0.5	PASS
11N20SISO	Ant1	2412	16.680	2403.600	2420.280	0.5	PASS
		2437	17.360	2428.400	2445.760	0.5	PASS
		2462	17.120	2453.600	2470.720	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437





11N20SISO_Ant1_2462



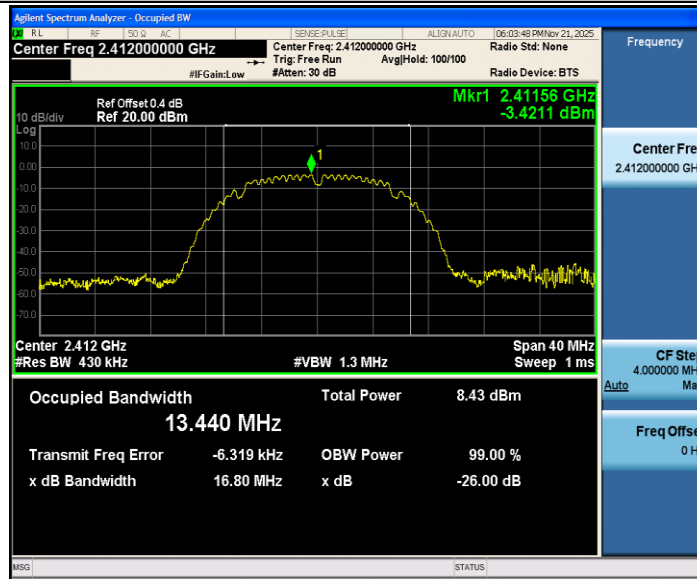
Appendix B: Occupied Channel Bandwidth

Test Result

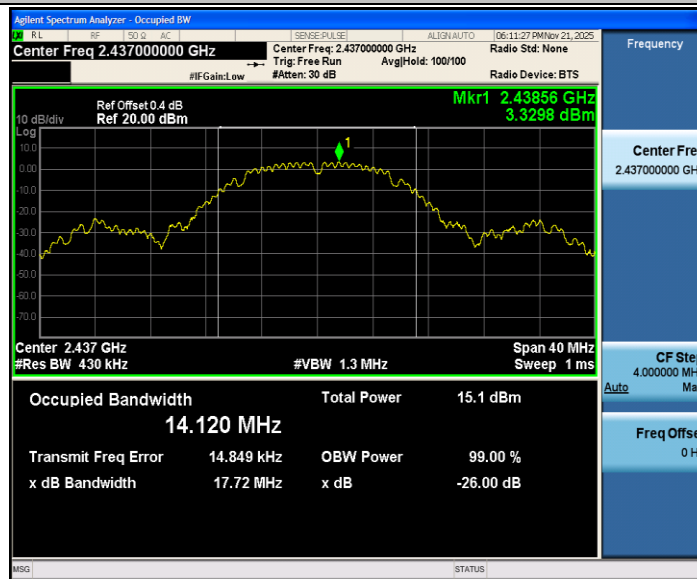
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.440	2405.2737	2418.7137	---	---
		2437	14.120	2429.9549	2444.0749	---	---
		2462	14.034	2455.0226	2469.0566	---	---
11G	Ant1	2412	16.878	2403.5934	2420.4714	---	---
		2437	16.817	2428.6239	2445.4409	---	---
		2462	16.840	2453.6528	2470.4928	---	---
11N20SISO	Ant1	2412	17.930	2403.0403	2420.9703	---	---
		2437	17.817	2428.1186	2445.9356	---	---
		2462	17.902	2453.0806	2470.9826	---	---

Test Graphs

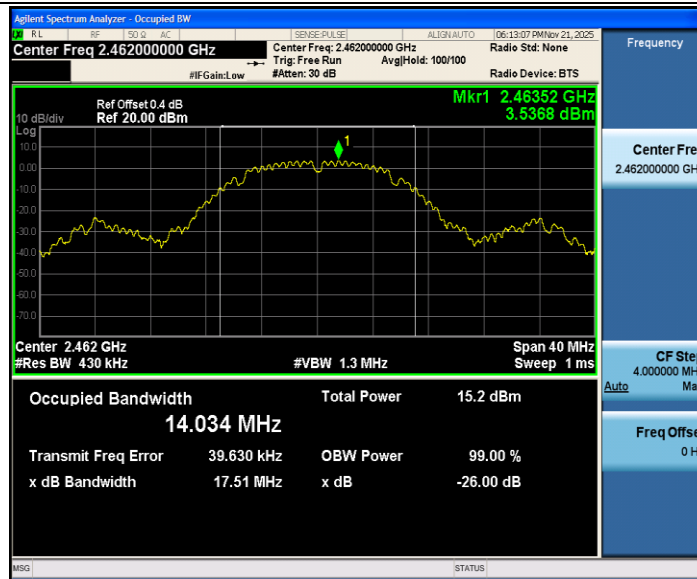
11B_Ant1_2412



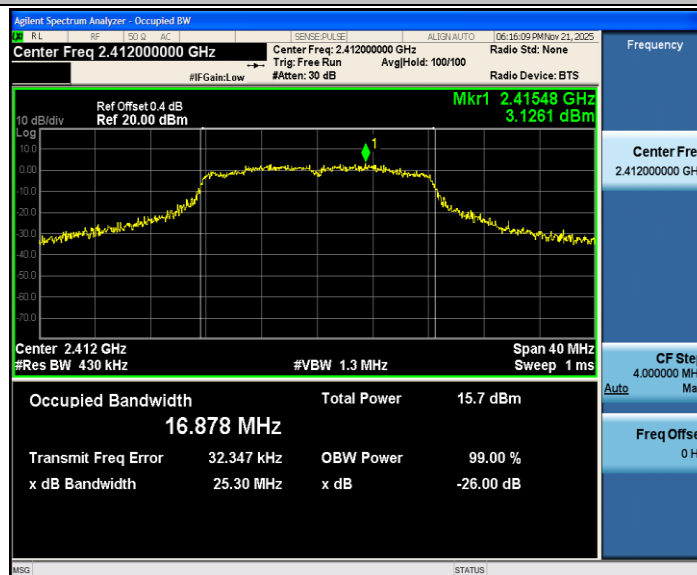
11B_Ant1_2437



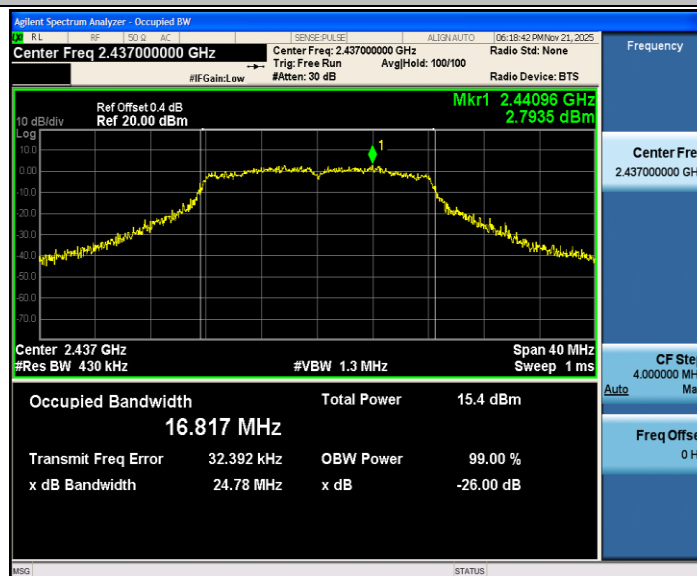
11B_Ant1_2462



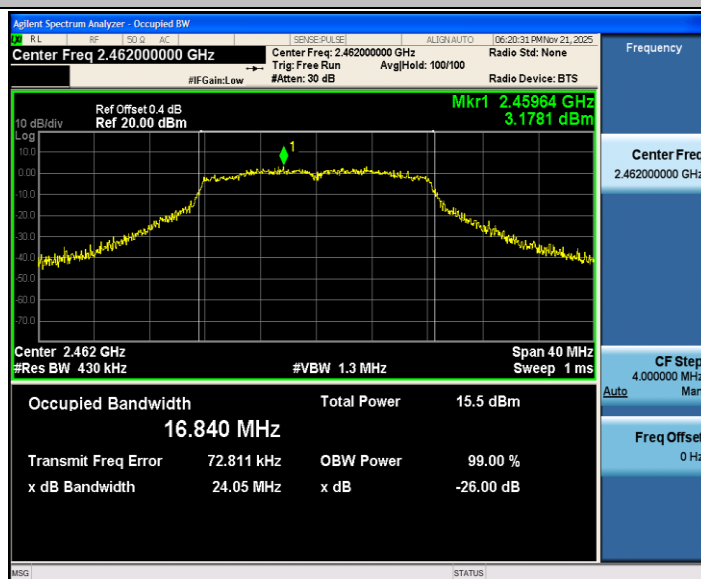
11G_Ant1_2412



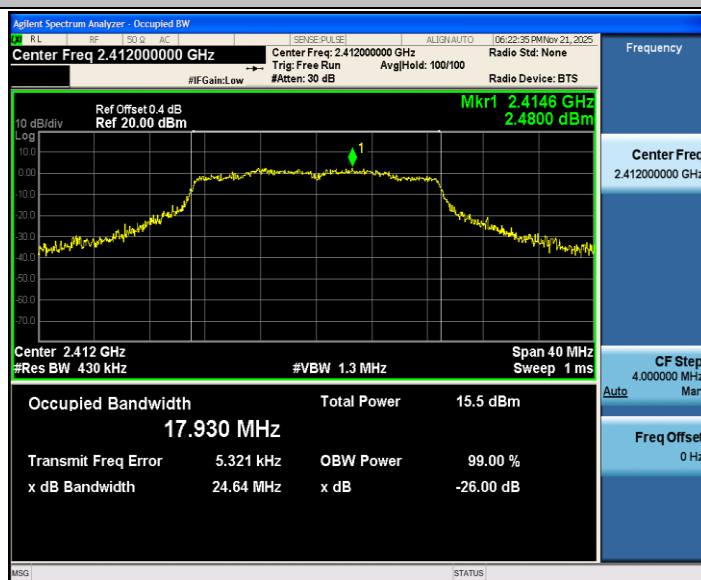
11G_Ant1_2437



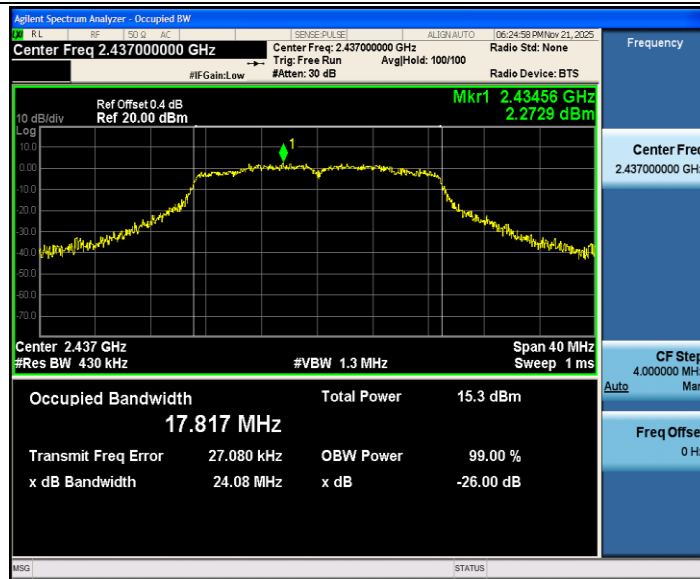
11G_Ant1_2462



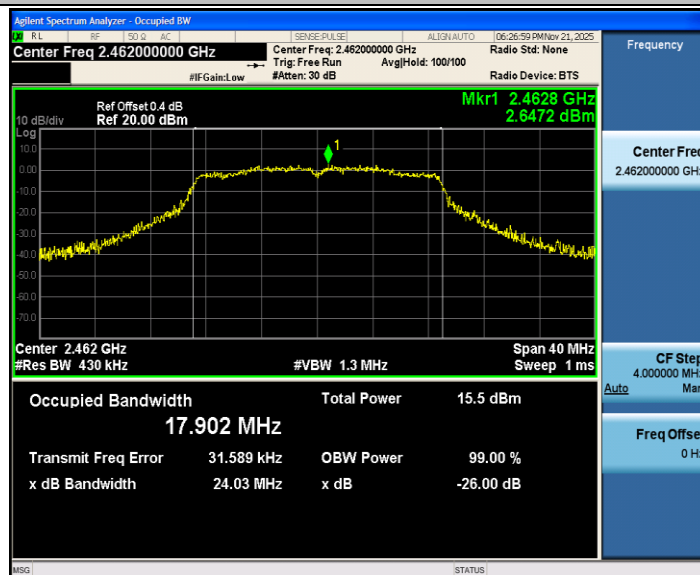
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.77	≤30.00	PASS
		2437	14.91	≤30.00	PASS
		2462	15.10	≤30.00	PASS
11G	Ant1	2412	16.18	≤30.00	PASS
		2437	16.04	≤30.00	PASS
		2462	16.19	≤30.00	PASS
11N20SISO	Ant1	2412	16.01	≤30.00	PASS
		2437	15.94	≤30.00	PASS
		2462	16.08	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.23	≤8.00	PASS
		2437	-10.53	≤8.00	PASS
		2462	-10.22	≤8.00	PASS
11G	Ant1	2412	-14.48	≤8.00	PASS
		2437	-14.90	≤8.00	PASS
		2462	-14.76	≤8.00	PASS
11N20SISO	Ant1	2412	-14.97	≤8.00	PASS
		2437	-14.81	≤8.00	PASS
		2462	-15.04	≤8.00	PASS

Test Graphs

11B_Ant1_2412



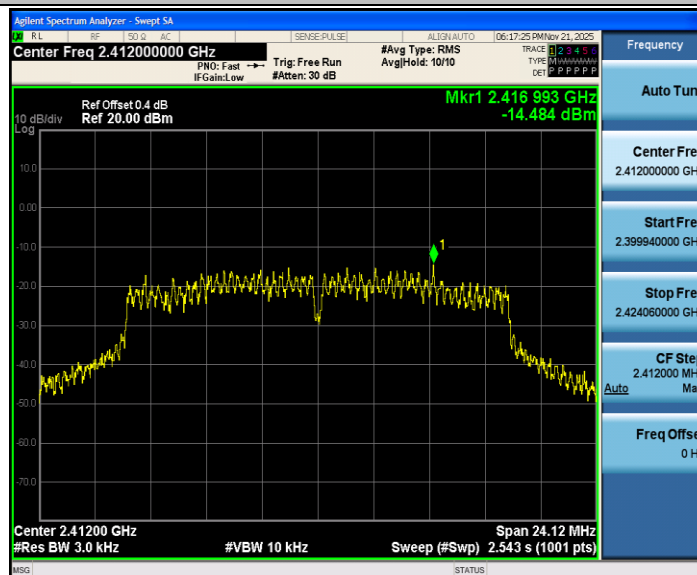
11B_Ant1_2437



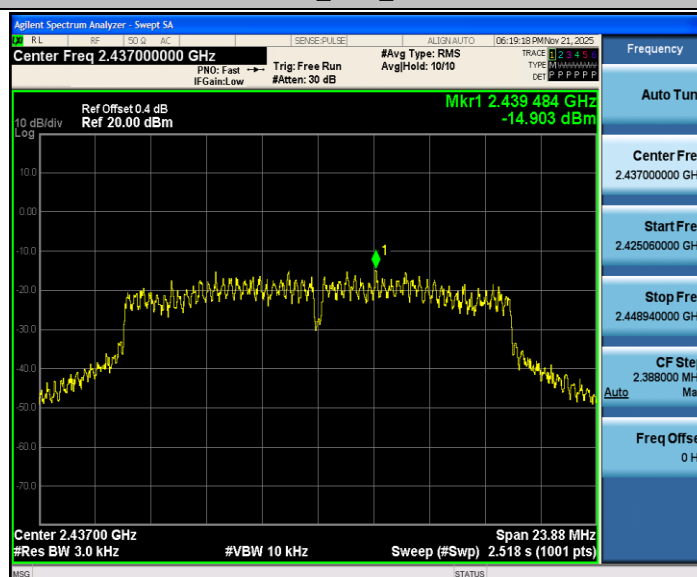
11B_Ant1_2462



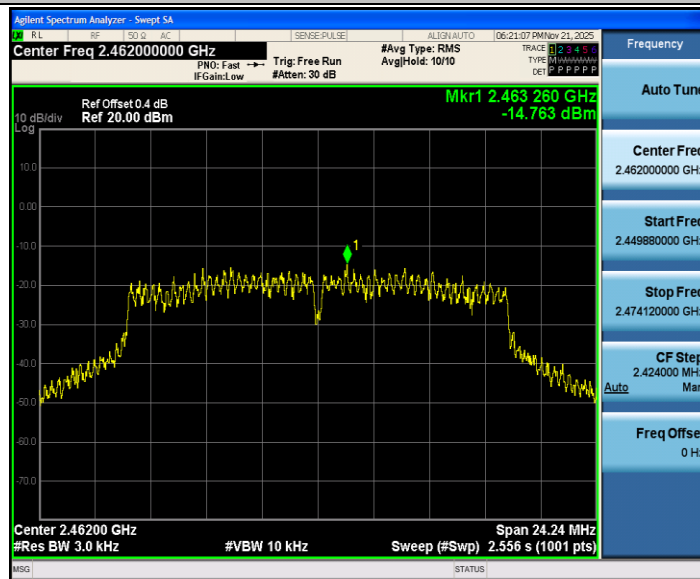
11G_Ant1_2412



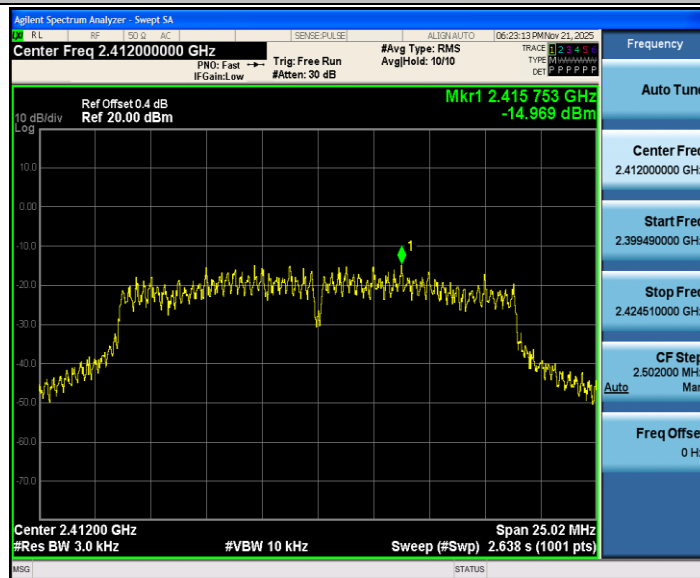
11G_Ant1_2437



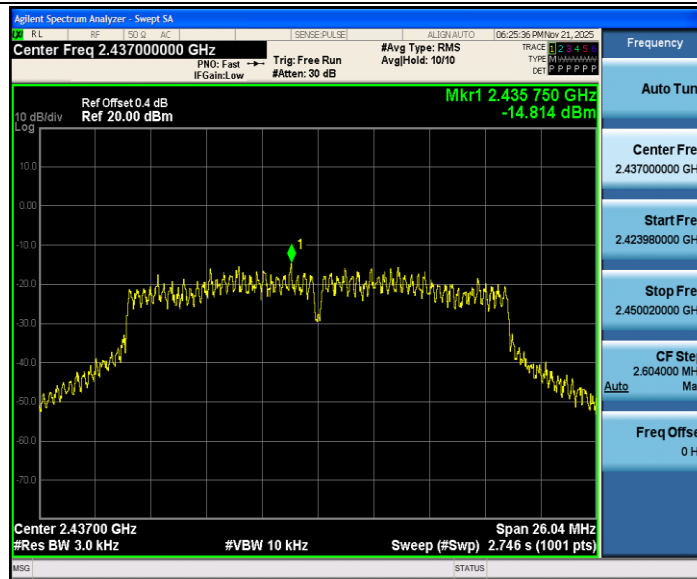
11G_Ant1_2462



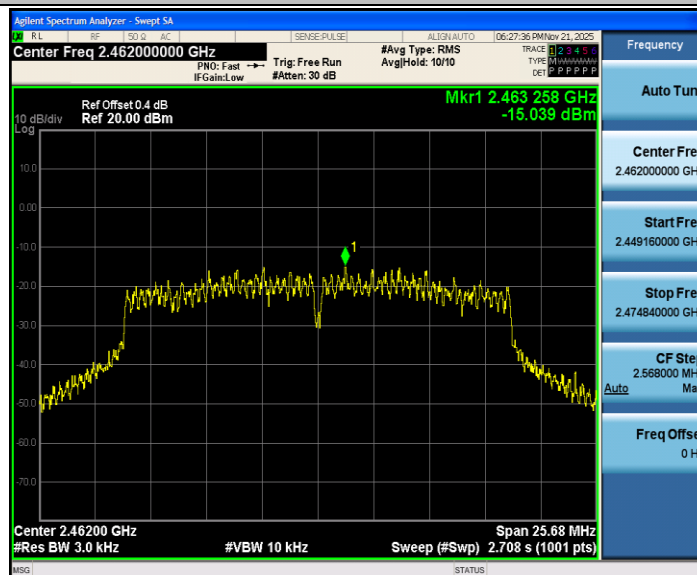
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



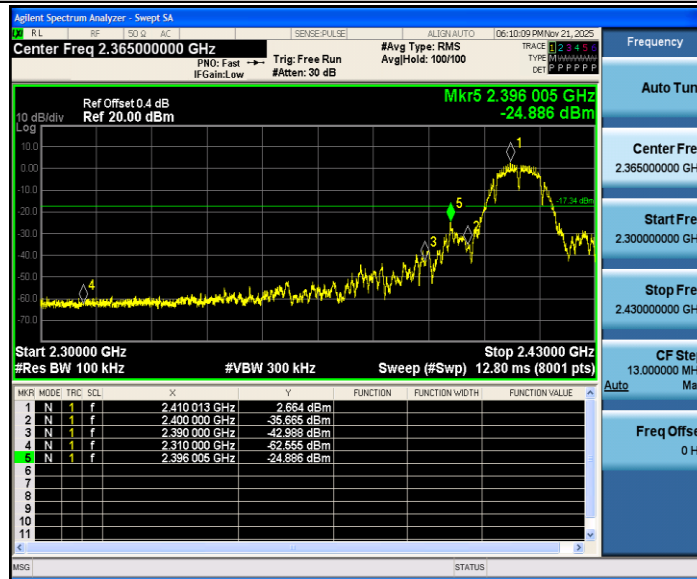
Appendix E: Band edge measurements

Test Result

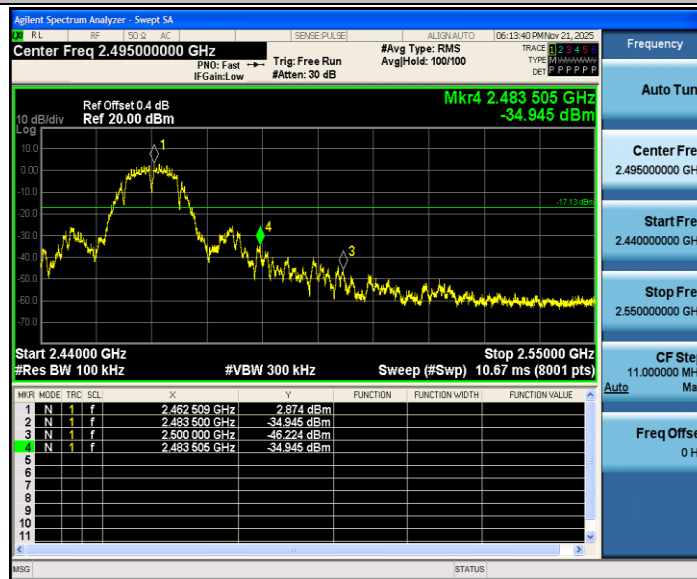
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.66	-24.89	≤-17.34	PASS
		High	2462	2.87	-34.95	≤-17.13	PASS
11G	Ant1	Low	2412	0.56	-26.6	≤-19.44	PASS
		High	2462	0.56	-46.58	≤-19.44	PASS
11N20SISO	Ant1	Low	2412	0.44	-26.22	≤-19.56	PASS
		High	2462	0.29	-45.53	≤-19.71	PASS

Test Graphs

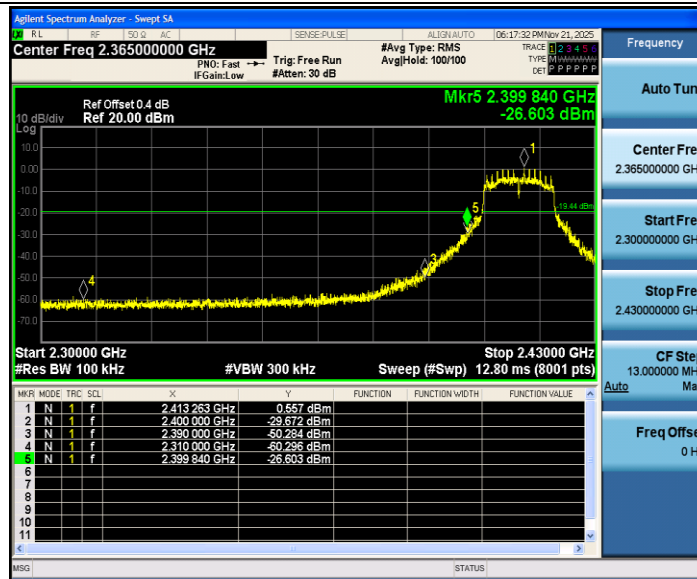
11B_Ant1_Low_2412



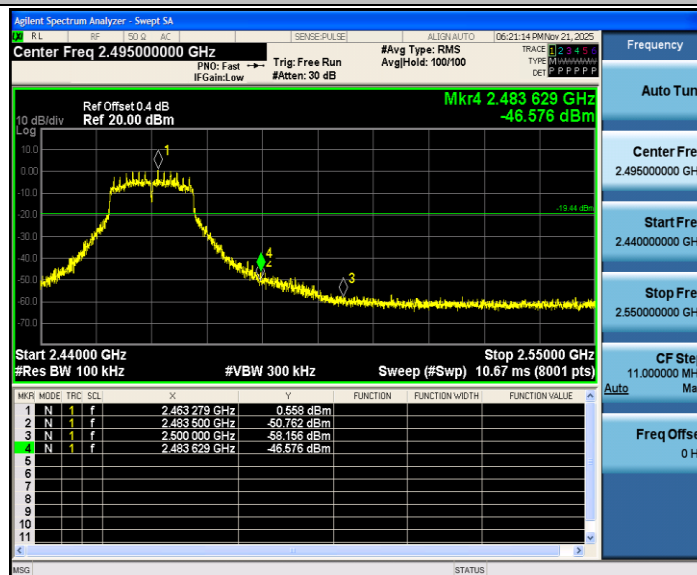
11B_Ant1_High_2462



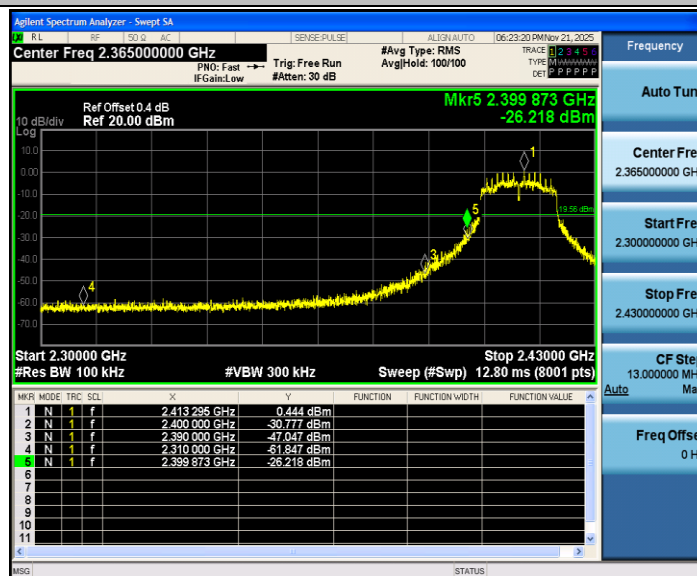
11G_Ant1_Low_2412



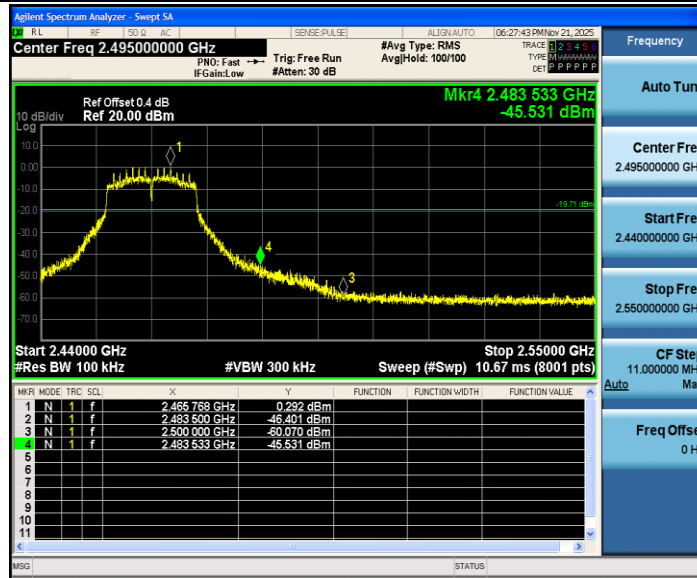
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

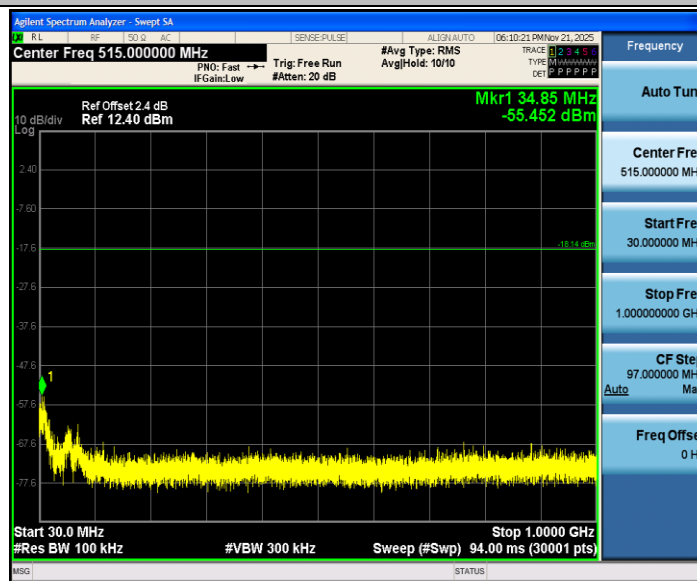
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.86	1.86	---	PASS
			30~1000	1.86	-55.45	≤-18.14	PASS
			1000~26500	1.86	-48.79	≤-18.14	PASS
		2437	Reference	1.84	1.84	---	PASS
			30~1000	1.84	-53.6	≤-18.16	PASS
			1000~26500	1.84	-50.86	≤-18.16	PASS
		2462	Reference	1.96	1.96	---	PASS
			30~1000	1.96	-54.44	≤-18.04	PASS
			1000~26500	1.96	-52.73	≤-18.04	PASS
11G	Ant1	2412	Reference	-0.77	-0.77	---	PASS
			30~1000	-0.77	-53.81	≤-20.77	PASS
			1000~26500	-0.77	-54.79	≤-20.77	PASS
		2437	Reference	-1.18	-1.18	---	PASS
			30~1000	-1.18	-54.17	≤-21.18	PASS
			1000~26500	-1.18	-54.61	≤-21.18	PASS
		2462	Reference	0.07	0.07	---	PASS
			30~1000	0.07	-55.51	≤-19.93	PASS
			1000~26500	0.07	-52.35	≤-19.93	PASS
11N20SISO	Ant1	2412	Reference	0.12	0.12	---	PASS
			30~1000	0.12	-51.8	≤-19.88	PASS
			1000~26500	0.12	-54.34	≤-19.88	PASS
		2437	Reference	0.38	0.38	---	PASS
			30~1000	0.38	-55.91	≤-19.62	PASS
			1000~26500	0.38	-54.97	≤-19.62	PASS
		2462	Reference	0.18	0.18	---	PASS
			30~1000	0.18	-54.15	≤-19.82	PASS
			1000~26500	0.18	-55.21	≤-19.82	PASS

Test Graphs

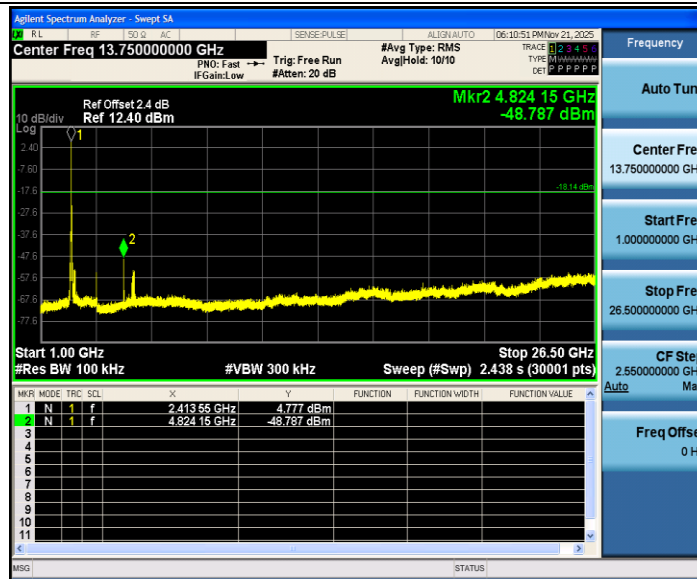
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



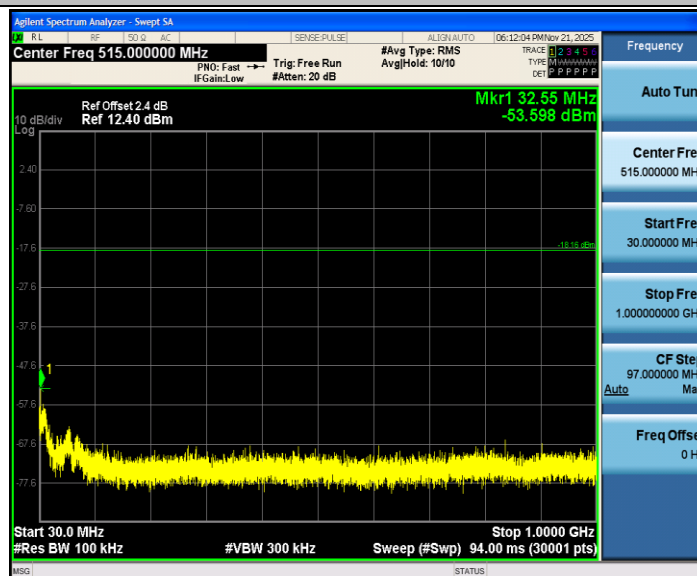
11B_Ant1_2412_1000~26500



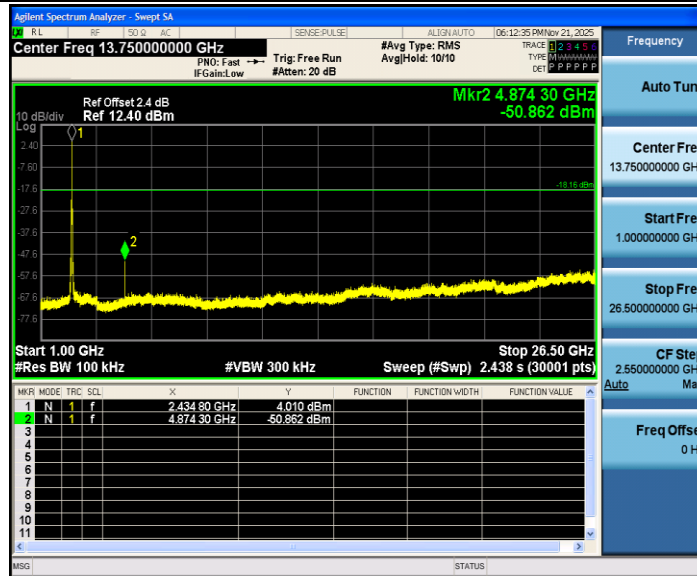
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



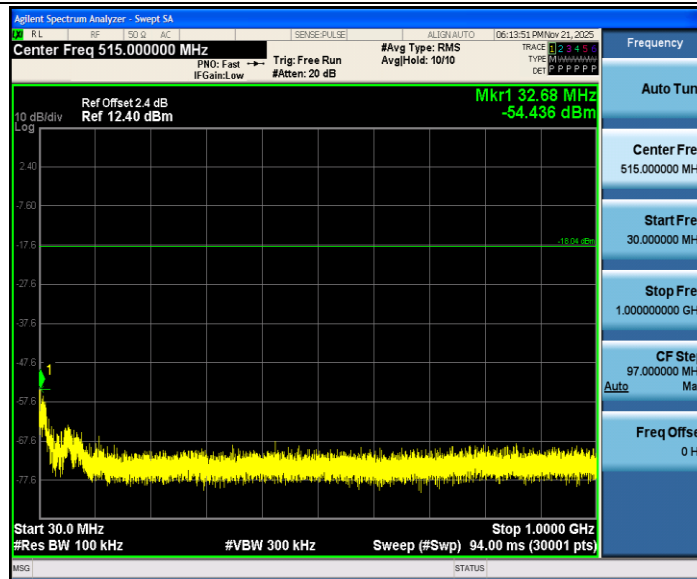
11B_Ant1_2437_1000~26500



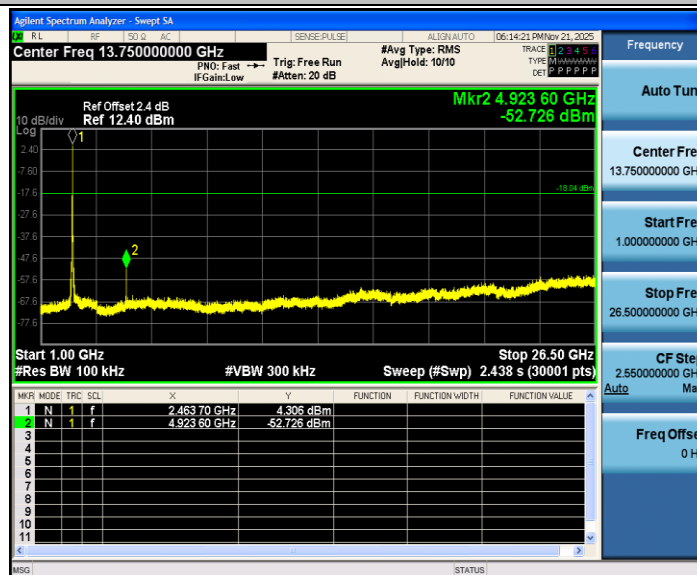
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



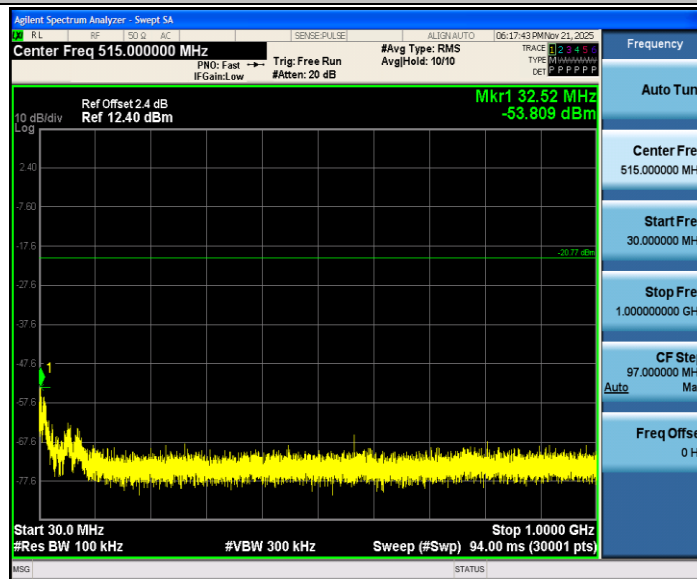
11B_Ant1_2462_1000~26500



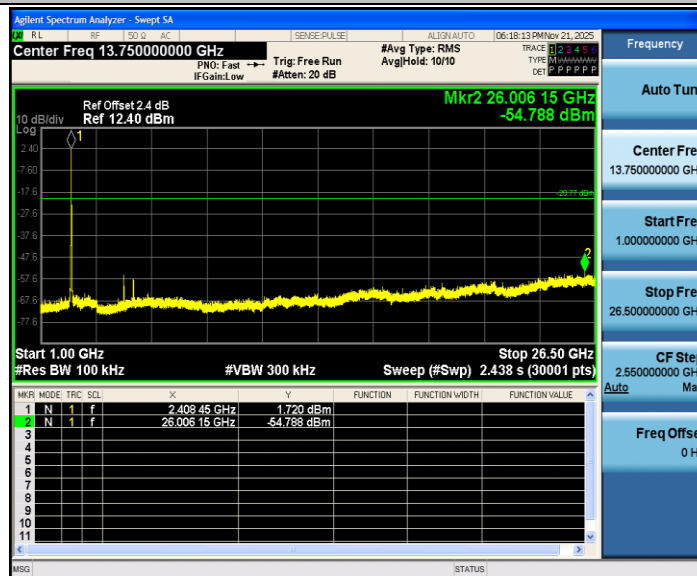
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



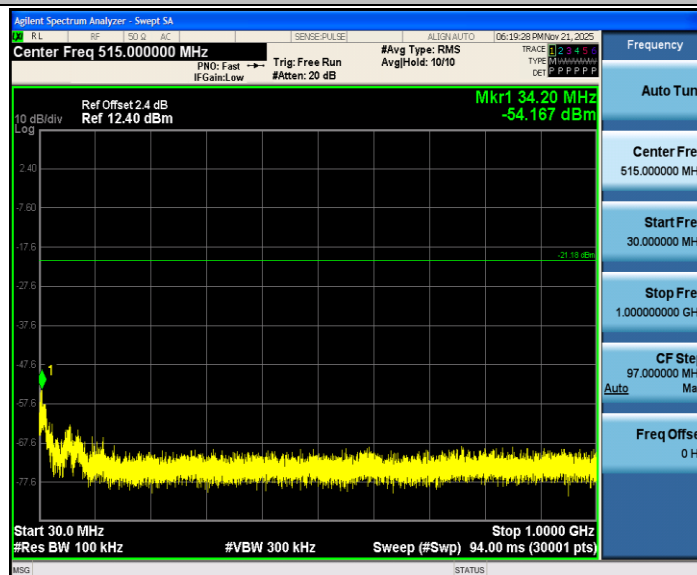
11G_Ant1_2412_1000~26500



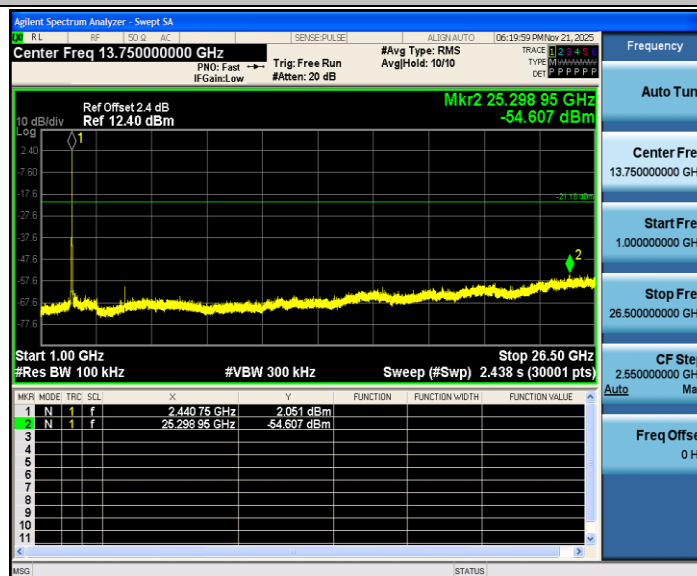
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



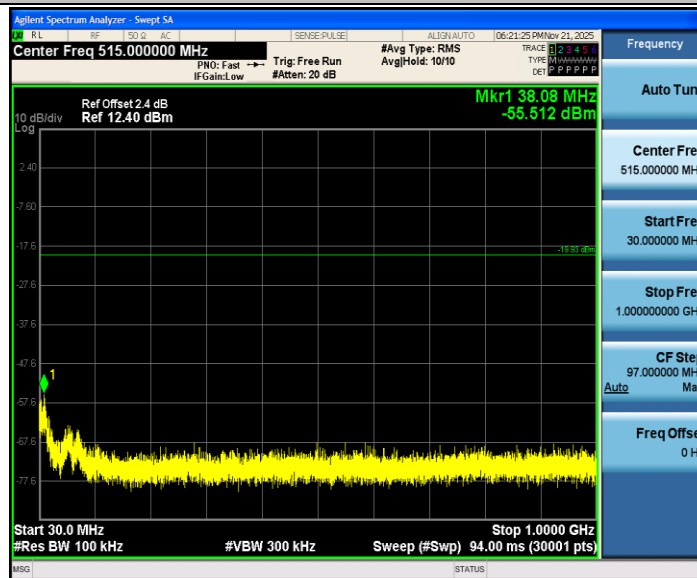
11G_Ant1_2437_1000~26500



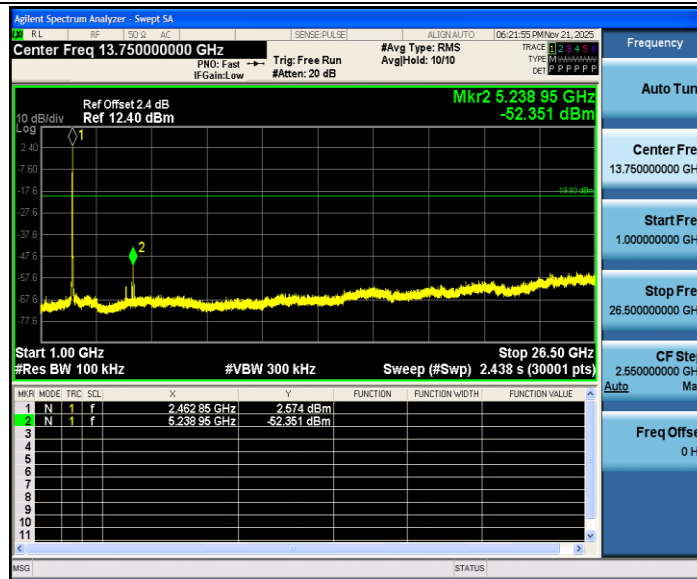
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

