

FCC Appendix RF Test Data

FCC ID : 2BOSR-DDZM-001

Company: : Dongguan Jierui Optoelectronics Technology Co., Ltd.

EUT : WiFi Bluetooth LED strip

Model Number : DDZM-001

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	9.480	2407.040	2416.520	0.5	PASS
		2437	9.080	2432.960	2442.040	0.5	PASS
		2462	9.080	2457.000	2466.080	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	15.720	2429.440	2445.160	0.5	PASS
		2462	15.880	2454.280	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.000	2404.440	2420.440	0.5	PASS
		2437	15.800	2429.440	2445.240	0.5	PASS
		2462	16.200	2454.440	2470.640	0.5	PASS

Test Graphs

11B_Ant1_2412



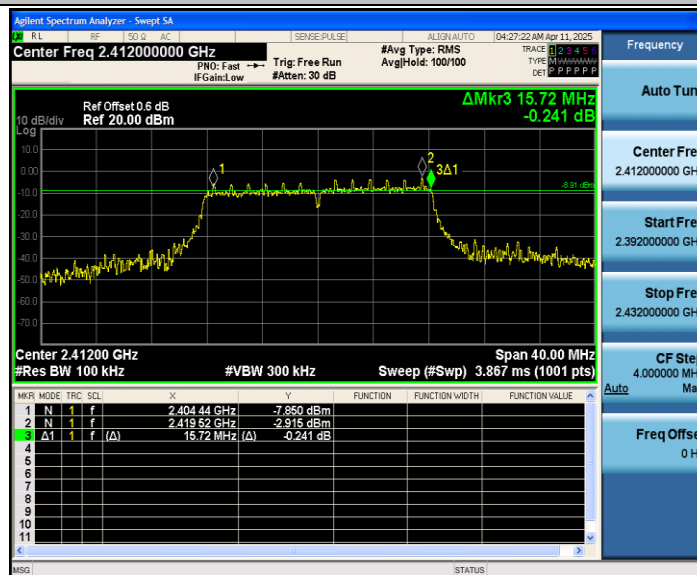
11B_Ant1_2437



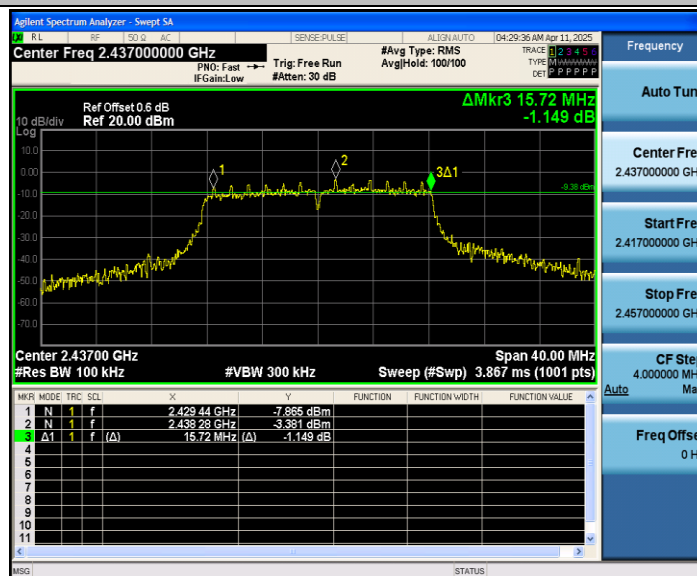
11B_Ant1_2462



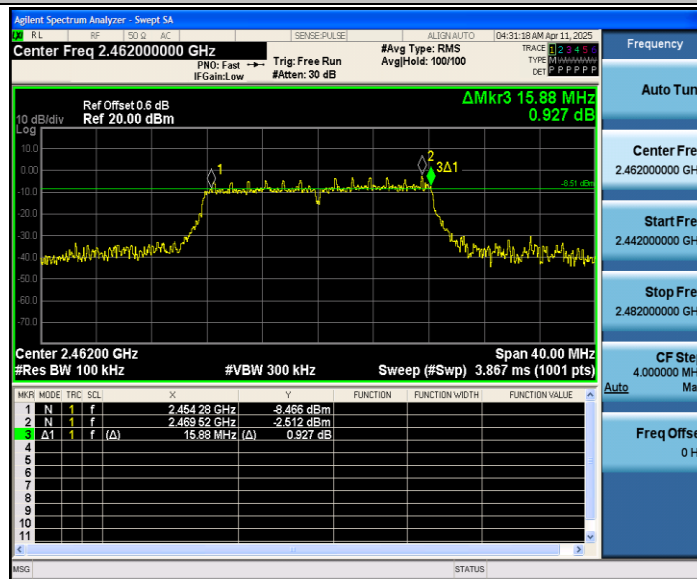
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



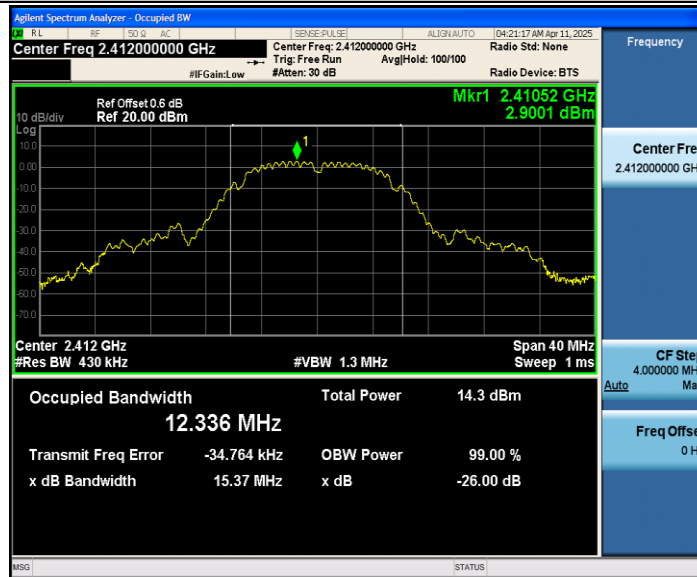
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.336	2405.7972	2418.1332	---	---
		2437	12.302	2431.0959	2443.3979	---	---
		2462	12.686	2455.4914	2468.1774	---	---
11G	Ant1	2412	16.779	2403.7778	2420.5568	---	---
		2437	16.604	2428.8396	2445.4436	---	---
		2462	16.974	2453.6062	2470.5802	---	---
11N20SISO	Ant1	2412	17.861	2403.2703	2421.1313	---	---
		2437	17.613	2428.3349	2445.9479	---	---
		2462	17.988	2453.1467	2471.1347	---	---

Test Graphs

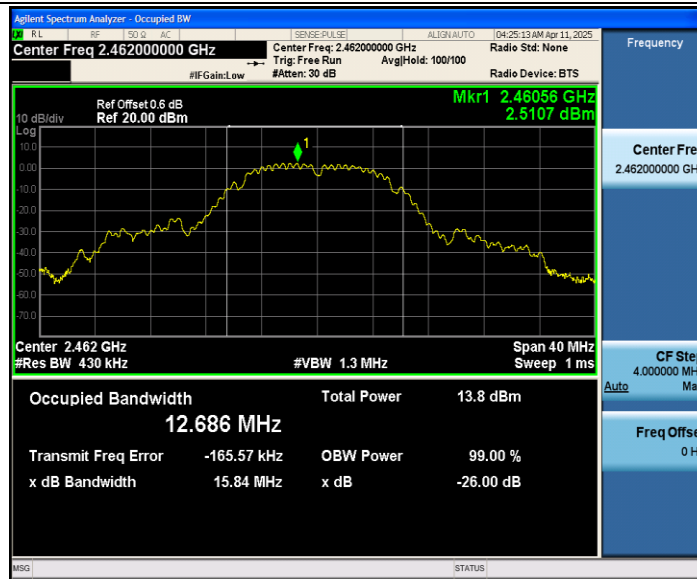
11B_Ant1_2412



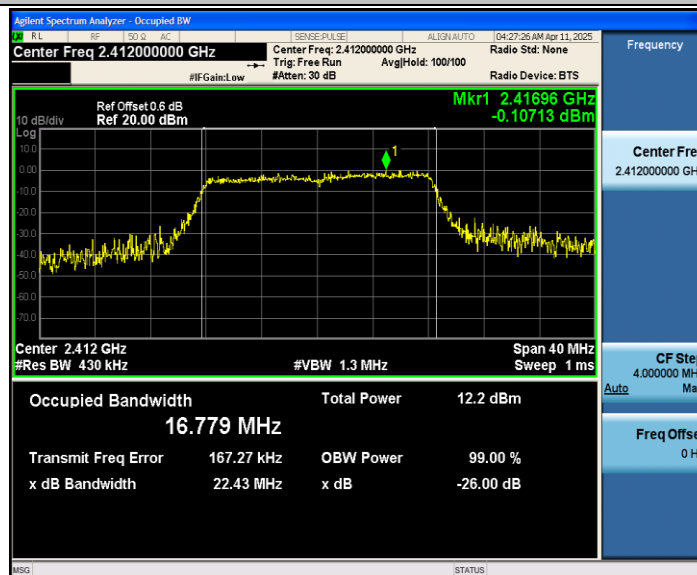
11B_Ant1_2437



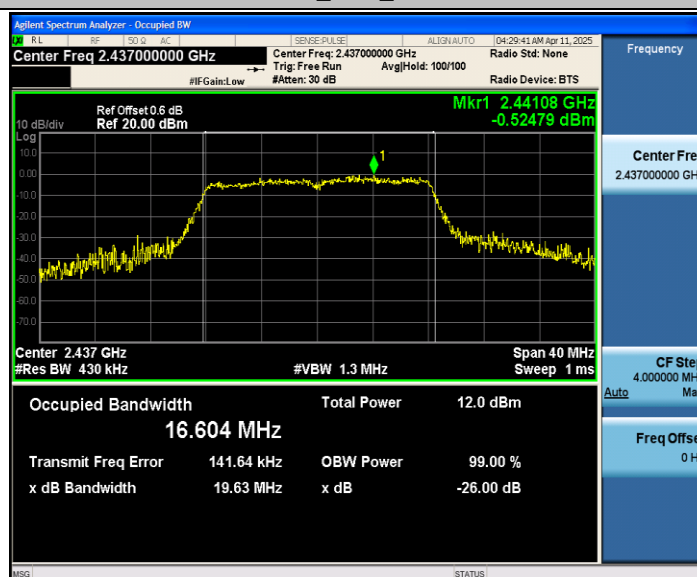
11B_Ant1_2462



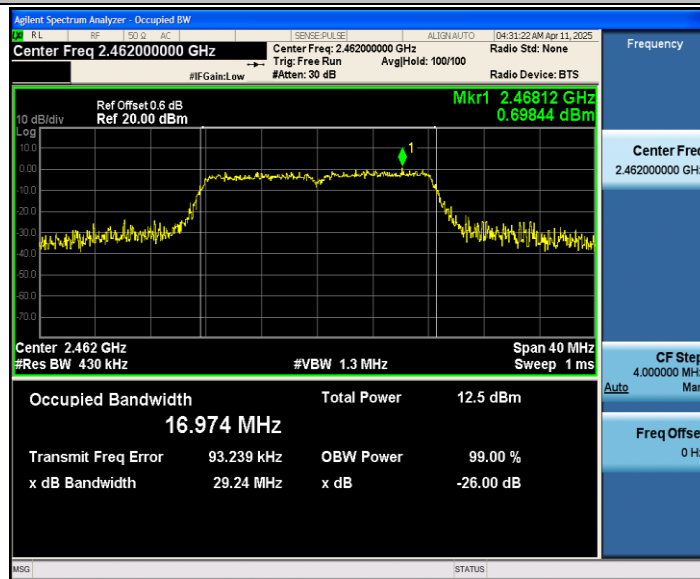
11G_Ant1_2412



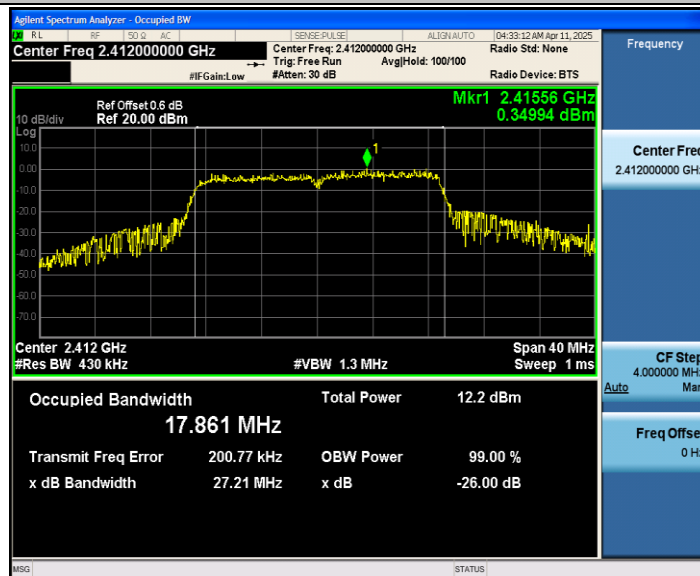
11G_Ant1_2437



11G_Ant1_2462



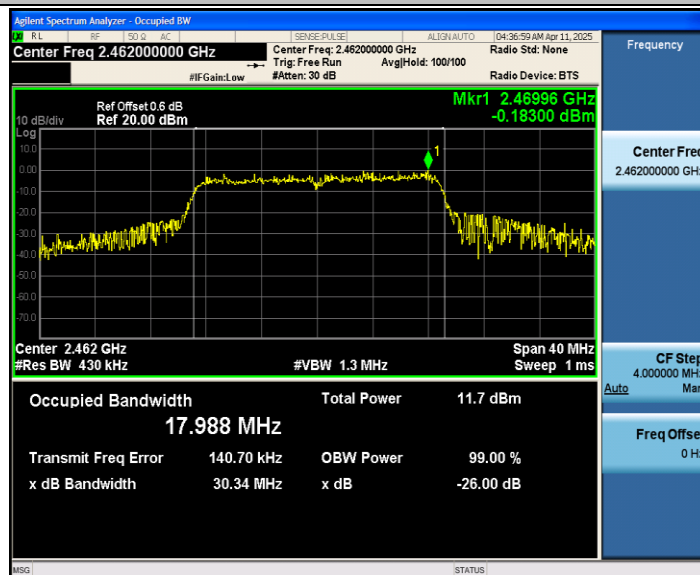
11N20SISO_Ant1_2412



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	14.21	≤30.00	PASS
		2437	14.49	≤30.00	PASS
		2462	13.52	≤30.00	PASS
11G	Ant1	2412	12.86	≤30.00	PASS
		2437	12.60	≤30.00	PASS
		2462	13.15	≤30.00	PASS
11N20SISO	Ant1	2412	12.73	≤30.00	PASS
		2437	12.55	≤30.00	PASS
		2462	12.01	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

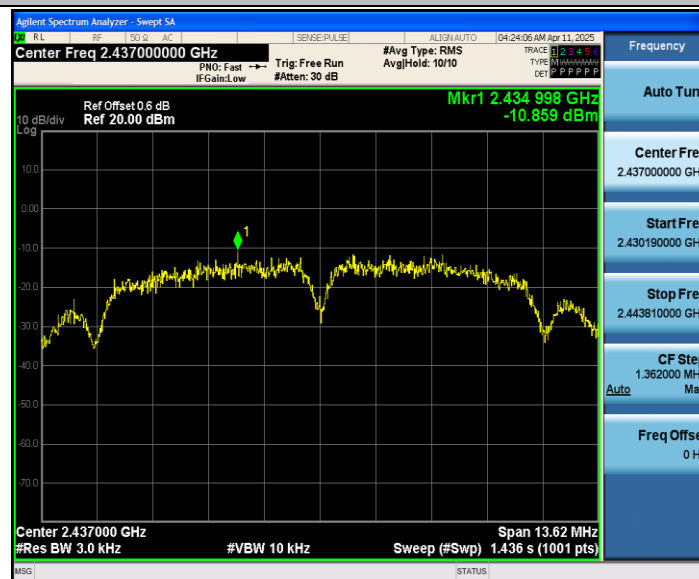
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.85	≤8.00	PASS
		2437	-10.86	≤8.00	PASS
		2462	-11.95	≤8.00	PASS
11G	Ant1	2412	-17.80	≤8.00	PASS
		2437	-18.96	≤8.00	PASS
		2462	-18.53	≤8.00	PASS
11N20SISO	Ant1	2412	-19.70	≤8.00	PASS
		2437	-19.06	≤8.00	PASS
		2462	-20.08	≤8.00	PASS

Test Graphs

11B_Ant1_2412



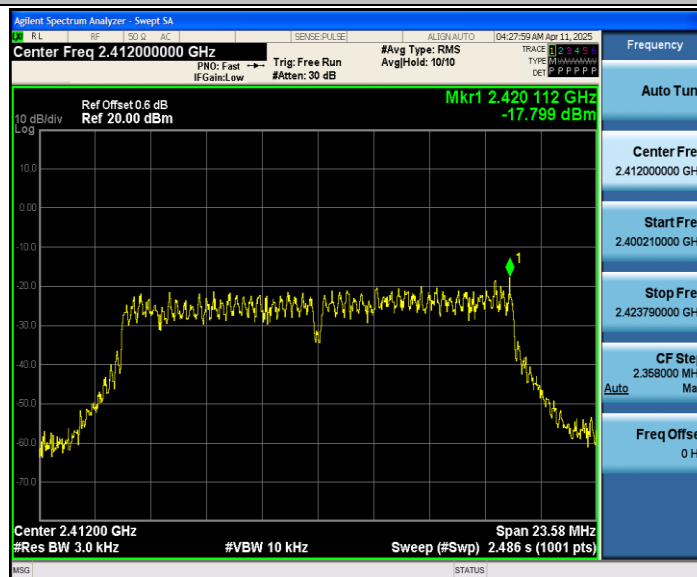
11B_Ant1_2437



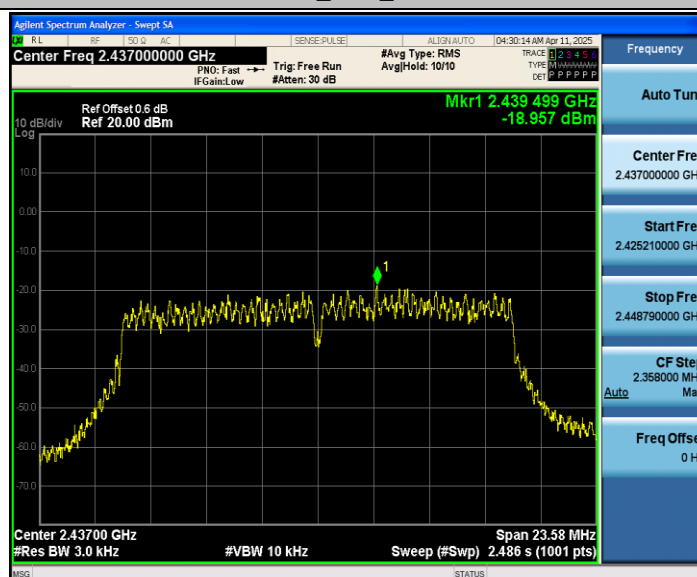
11B_Ant1_2462



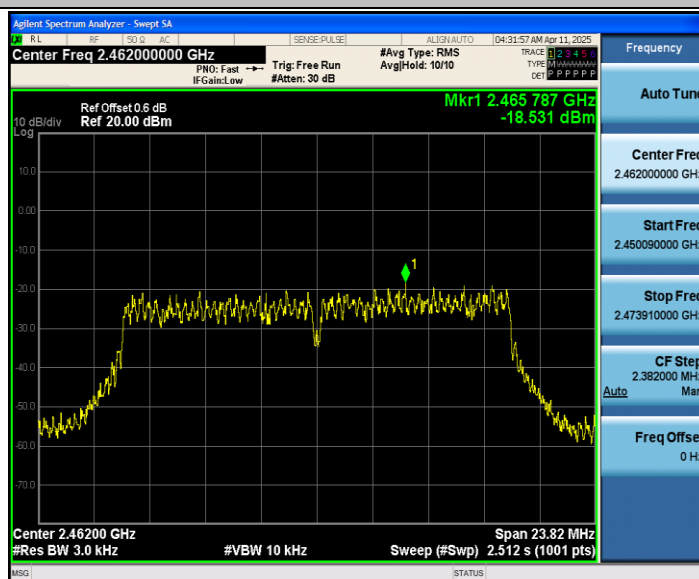
11G_Ant1_2412



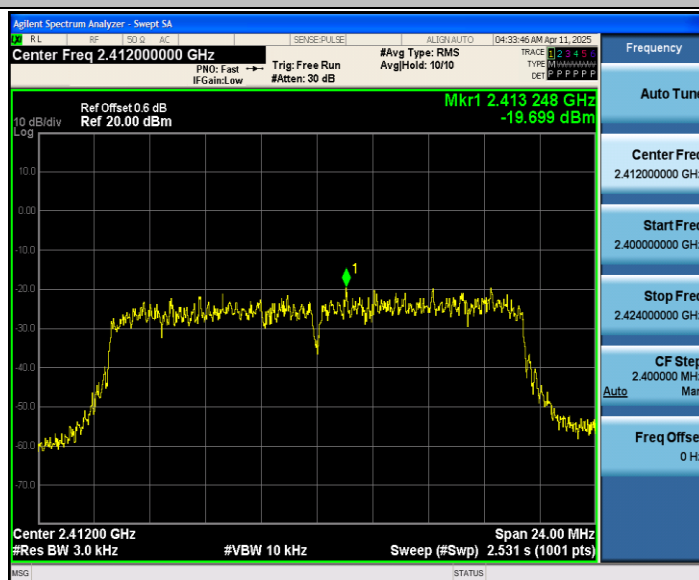
11G_Ant1_2437



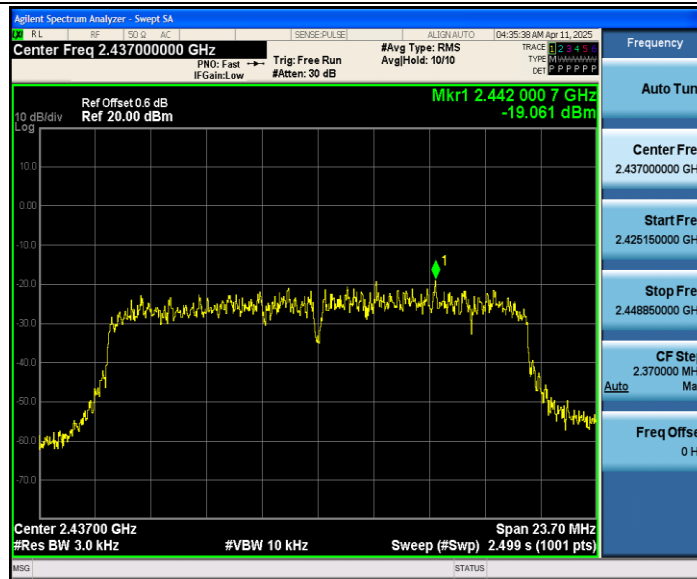
11G_Ant1_2462



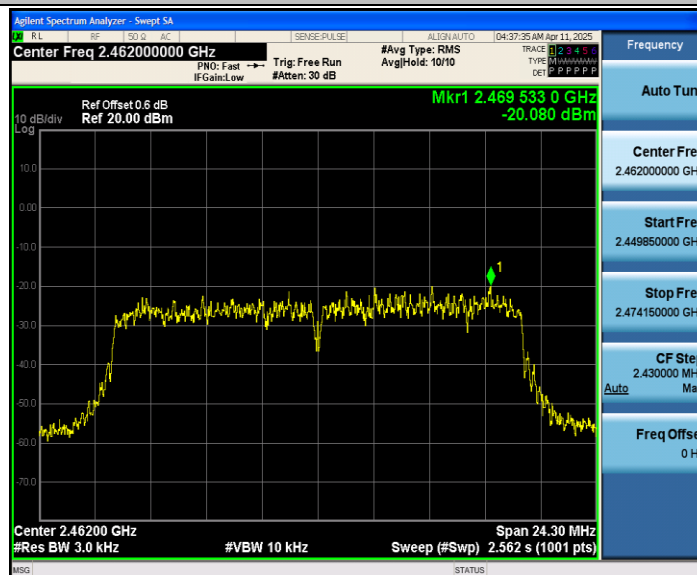
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



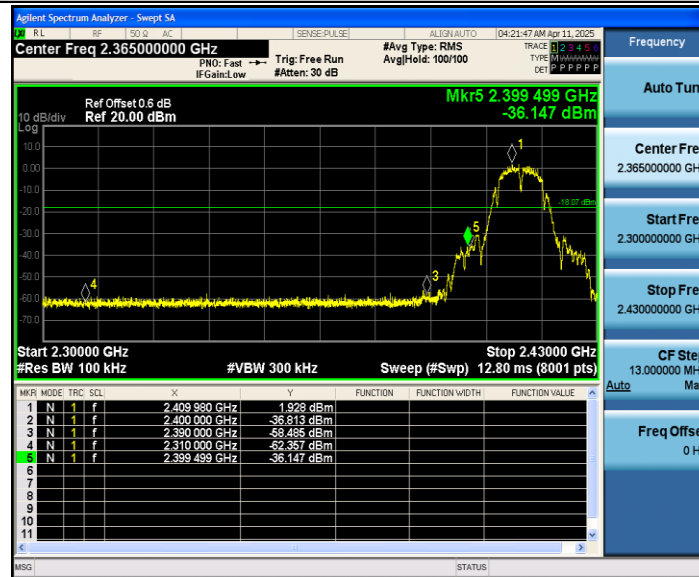
Appendix E: Band edge measurements

Test Result

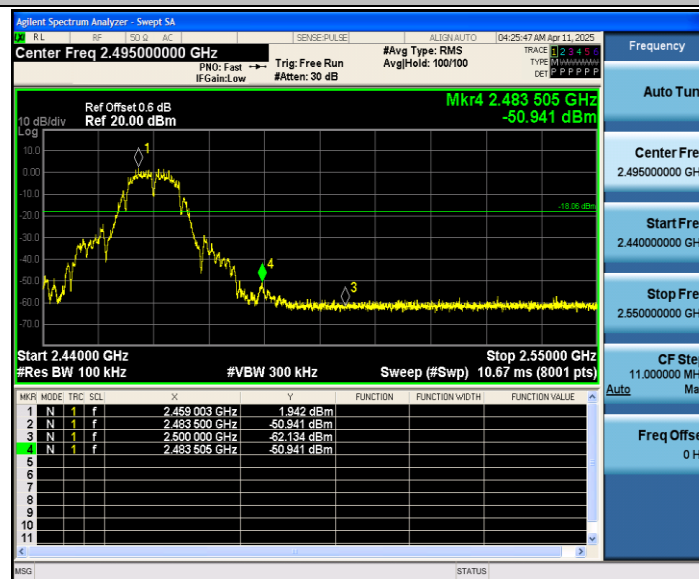
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.93	-36.15	≤-18.07	PASS
		High	2462	1.94	-50.94	≤-18.06	PASS
11G	Ant1	Low	2412	-2.88	-39.14	≤-22.88	PASS
		High	2462	-2.53	-38.56	≤-22.53	PASS
11N20SISO	Ant1	Low	2412	-2.97	-36.81	≤-22.97	PASS
		High	2462	-3.57	-41.41	≤-23.57	PASS

Test Graphs

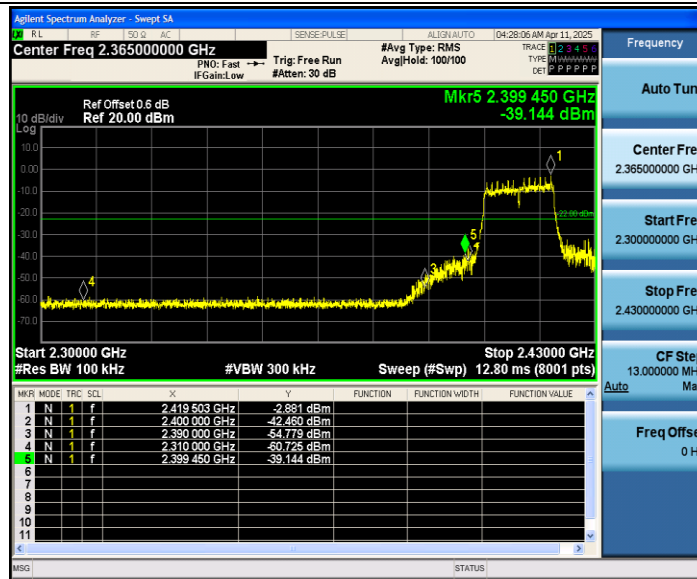
11B_Ant1_Low_2412



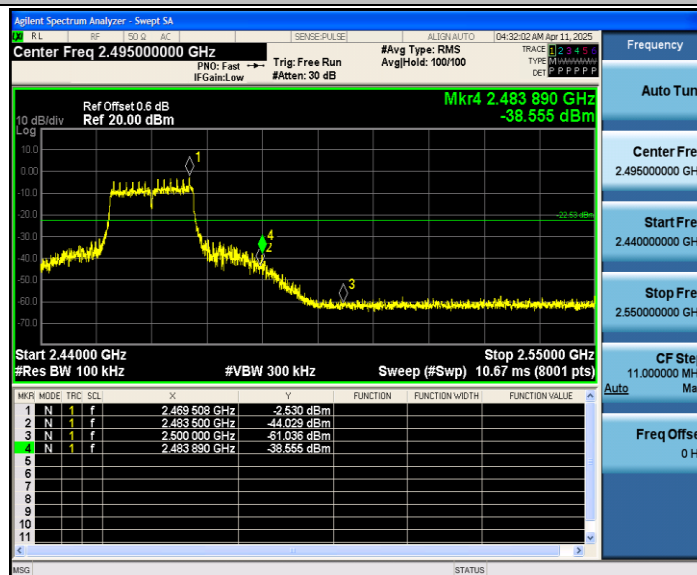
11B_Ant1_High_2462



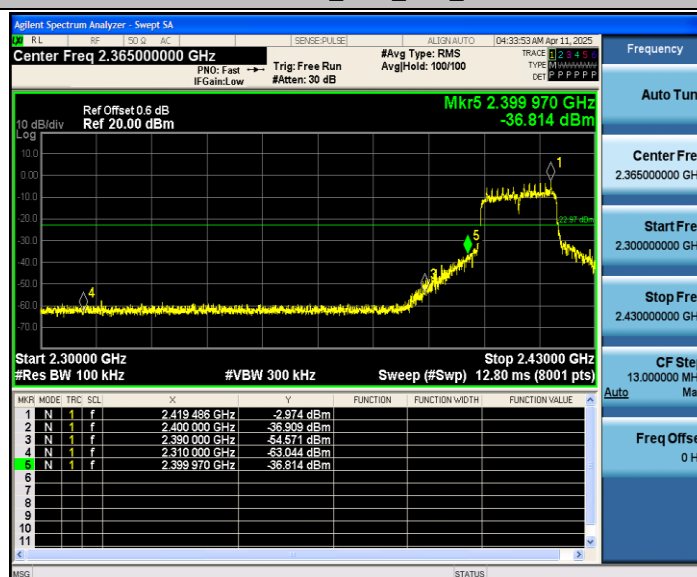
11G_Ant1_Low_2412



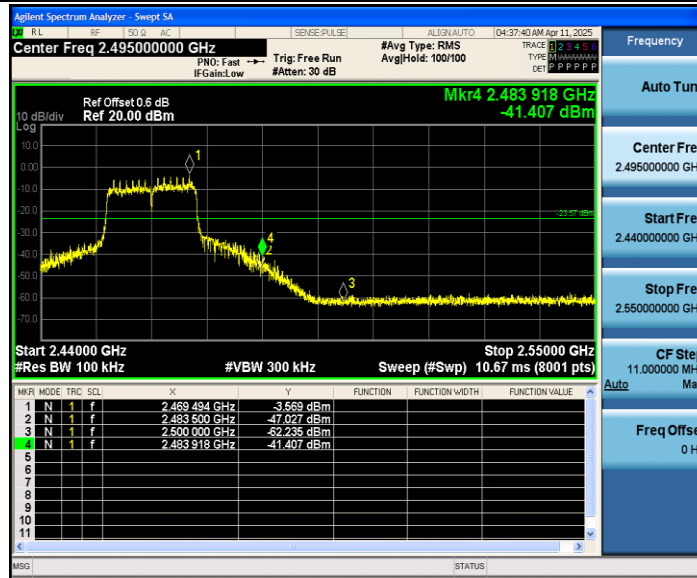
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

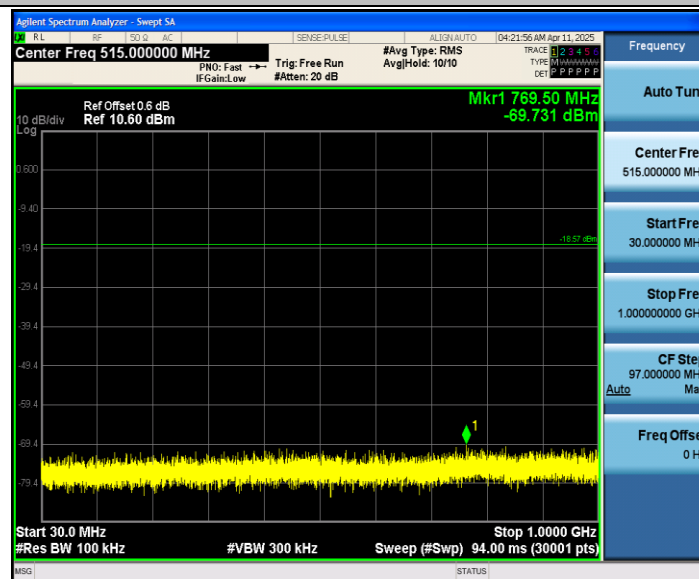
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.43	1.43	---	PASS
			30~1000	1.43	-69.73	≤-18.57	PASS
			1000~26500	1.43	-40.6	≤-18.57	PASS
		2437	Reference	1.96	1.96	---	PASS
			30~1000	1.96	-69.84	≤-18.04	PASS
			1000~26500	1.96	-38.69	≤-18.04	PASS
		2462	Reference	0.94	0.94	---	PASS
			30~1000	0.94	-69.06	≤-19.06	PASS
			1000~26500	0.94	-32.49	≤-19.06	PASS
11G	Ant1	2412	Reference	-3.18	-3.18	---	PASS
			30~1000	-3.18	-68.91	≤-23.18	PASS
			1000~26500	-3.18	-52.18	≤-23.18	PASS
		2437	Reference	-3.40	-3.40	---	PASS
			30~1000	-3.40	-69.48	≤-23.4	PASS
			1000~26500	-3.40	-56.41	≤-23.4	PASS
		2462	Reference	-3.39	-3.39	---	PASS
			30~1000	-3.39	-68.78	≤-23.39	PASS
			1000~26500	-3.39	-44.5	≤-23.39	PASS
11N20SISO	Ant1	2412	Reference	-2.88	-2.88	---	PASS
			30~1000	-2.88	-69.97	≤-22.88	PASS
			1000~26500	-2.88	-52.44	≤-22.88	PASS
		2437	Reference	-3.62	-3.62	---	PASS
			30~1000	-3.62	-70.09	≤-23.62	PASS
			1000~26500	-3.62	-52.04	≤-23.62	PASS
		2462	Reference	-4.07	-4.07	---	PASS
			30~1000	-4.07	-70.27	≤-24.07	PASS
			1000~26500	-4.07	-46.15	≤-24.07	PASS

Test Graphs

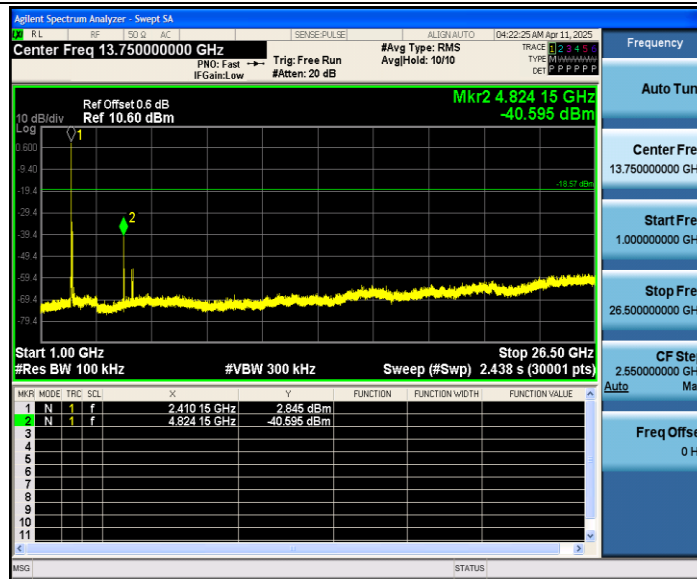
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



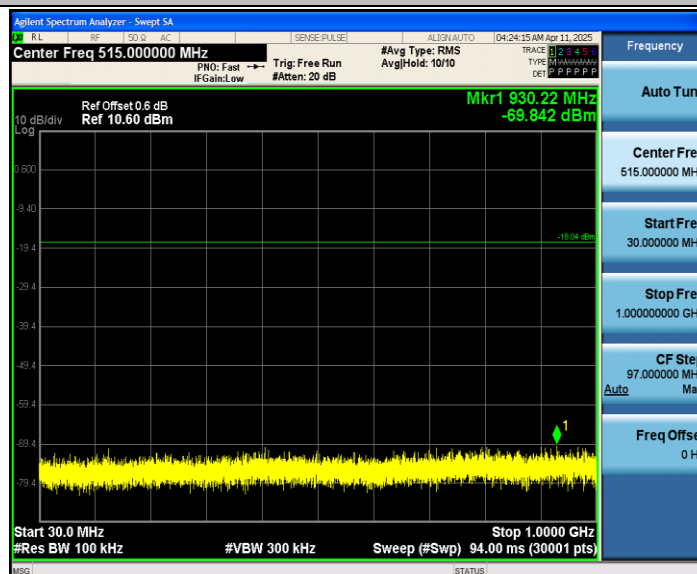
11B_Ant1_2412_1000~26500



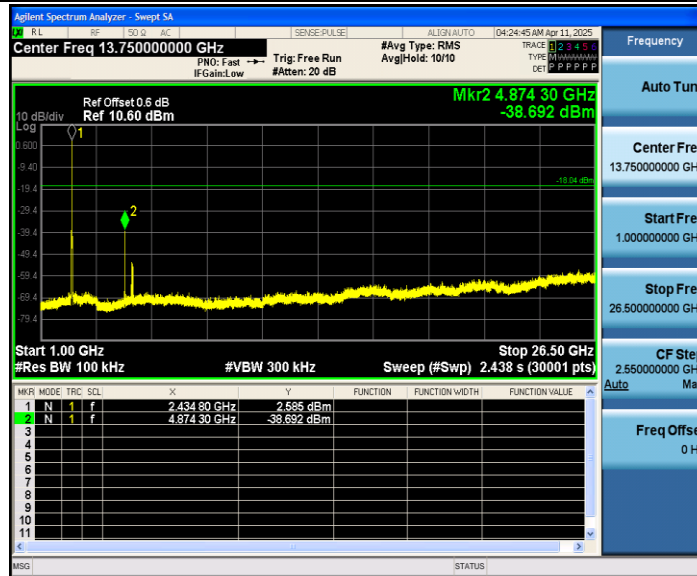
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



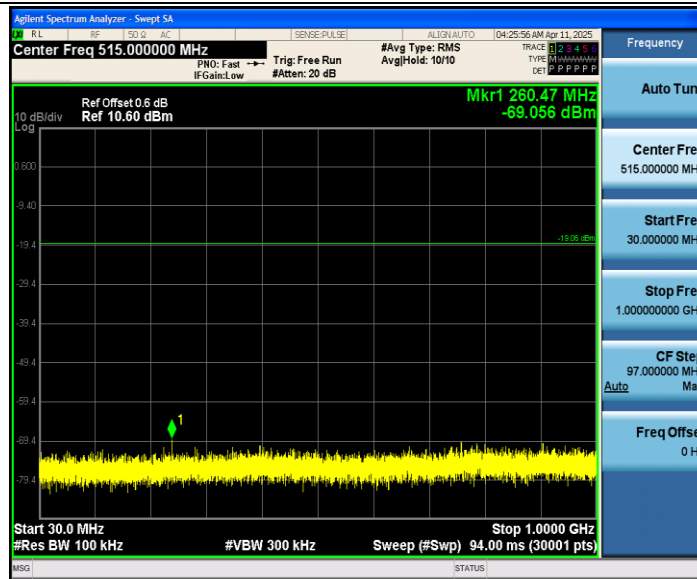
11B_Ant1_2437_1000~26500



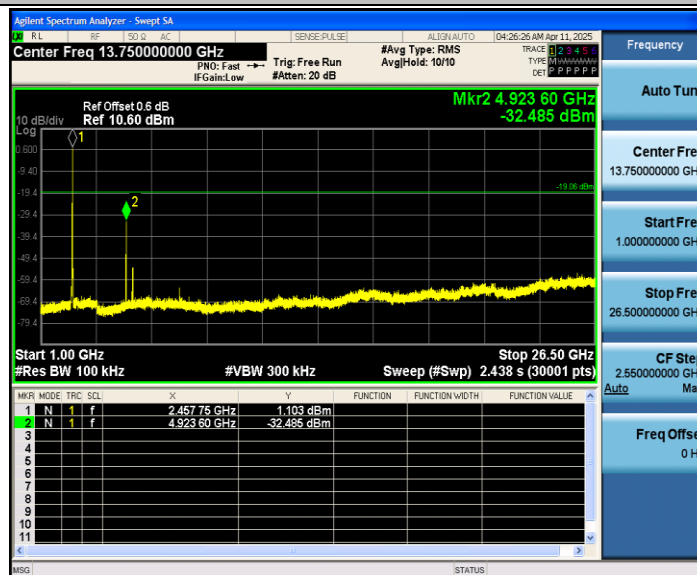
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



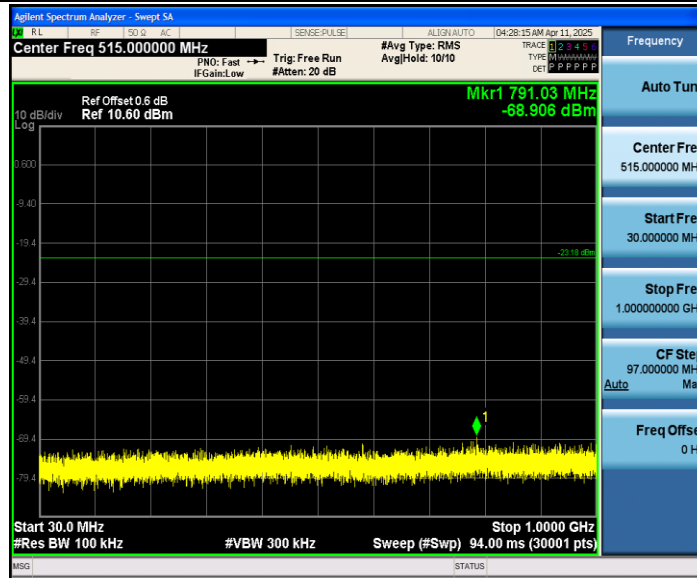
11B_Ant1_2462_1000~26500



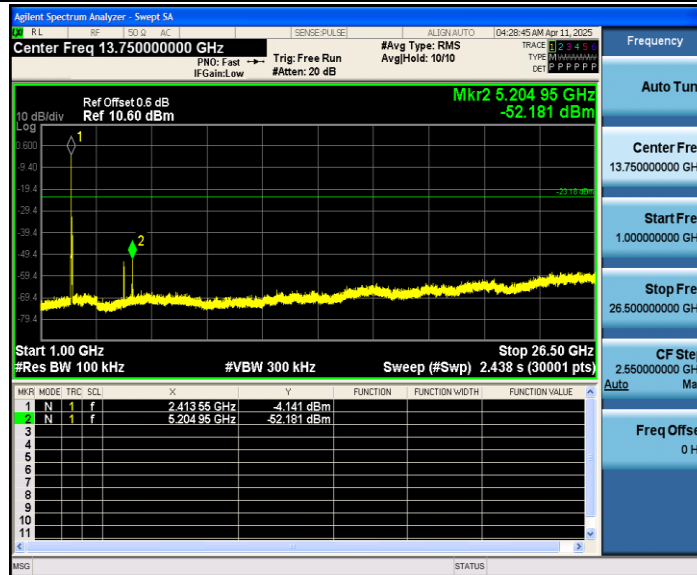
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



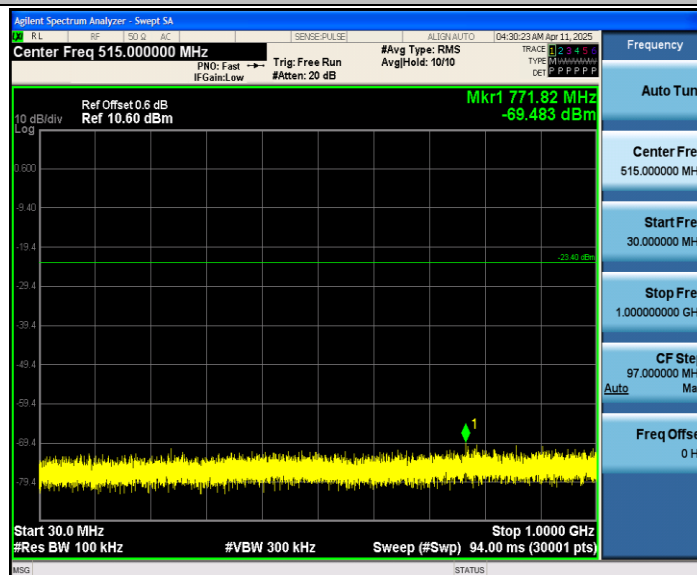
11G_Ant1_2412_1000~26500



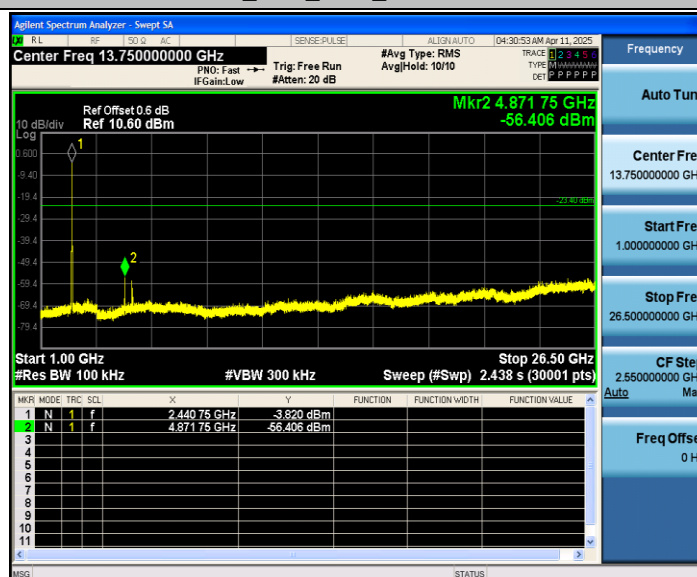
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



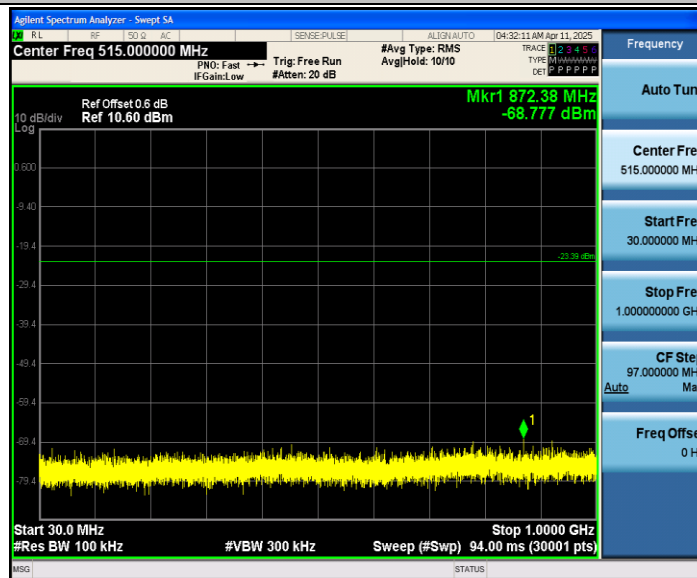
11G_Ant1_2437_1000~26500



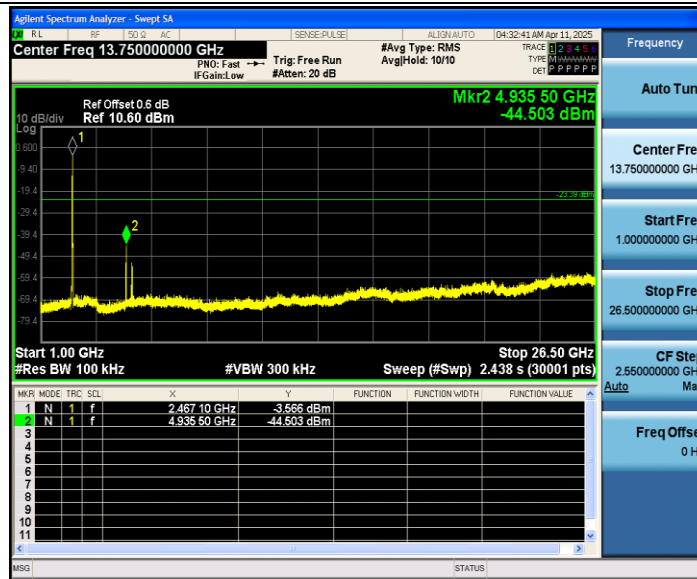
11G_Ant1_2462_0~Reference



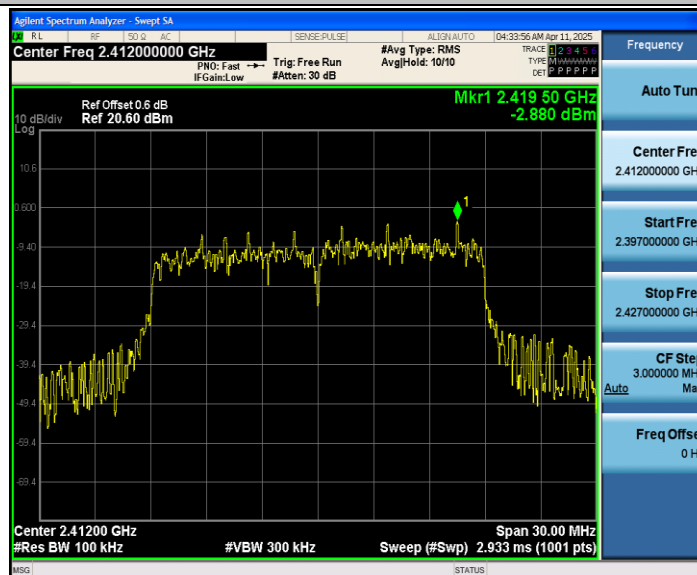
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

