

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BWR3-W4004BKBS

Company : Hose Pro USA LLC

EUT : Gateway

Model Number : W4004BKBS

Report No. : CTA26060903601

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	15.640	2404.360	2420.000	0.5	PASS
		2437	15.960	2429.040	2445.000	0.5	PASS
		2462	15.920	2454.040	2469.960	0.5	PASS
11N20SISO	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	17.200	2428.480	2445.680	0.5	PASS
		2462	17.200	2453.440	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



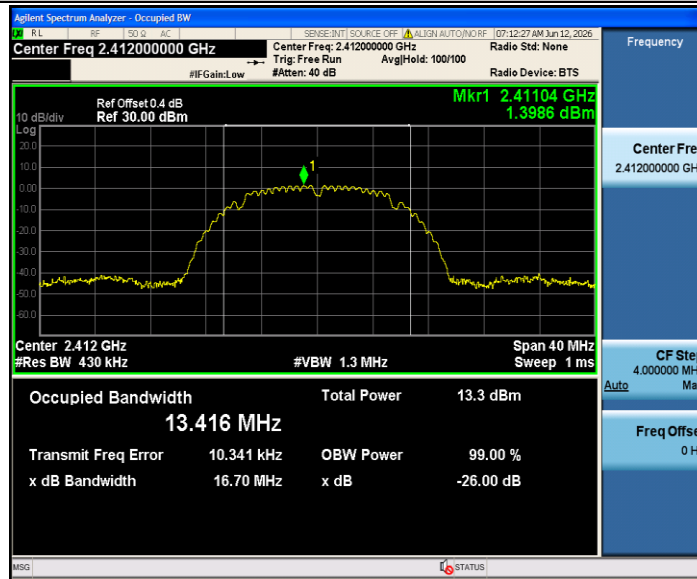
Appendix B: Occupied Channel Bandwidth

Test Result

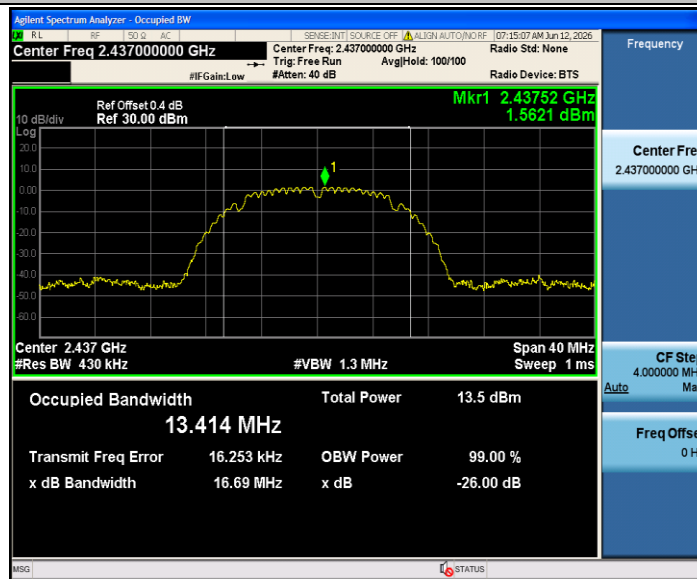
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.416	2405.3023	2418.7183	---	---
		2437	13.414	2430.3093	2443.7233	---	---
		2462	13.410	2455.3233	2468.7333	---	---
11G	Ant1	2412	16.737	2403.6664	2420.4034	---	---
		2437	16.814	2428.6361	2445.4501	---	---
		2462	16.873	2453.5811	2470.4541	---	---
11N20SISO	Ant1	2412	17.854	2403.1135	2420.9675	---	---
		2437	17.923	2428.0527	2445.9757	---	---
		2462	17.830	2453.1113	2470.9413	---	---

Test Graphs

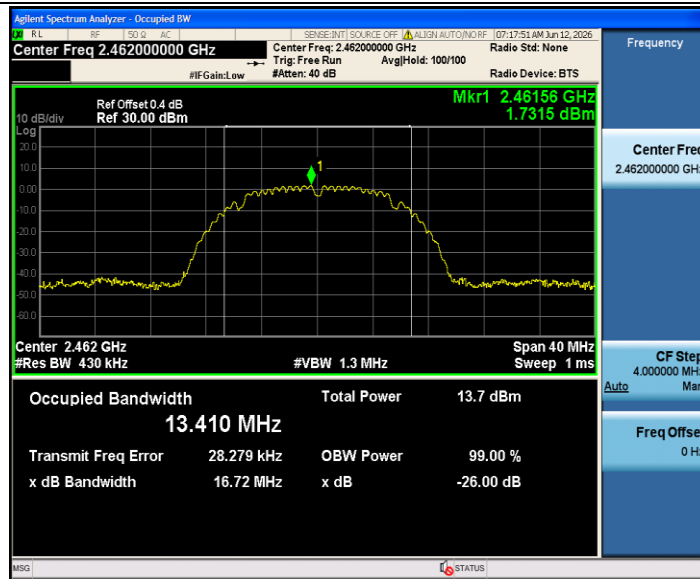
11B_Ant1_2412



11B_Ant1_2437



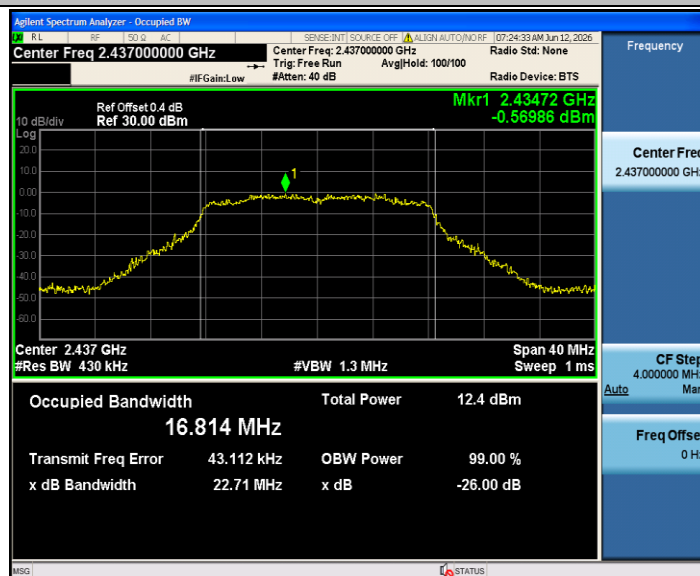
11B_Ant1_2462



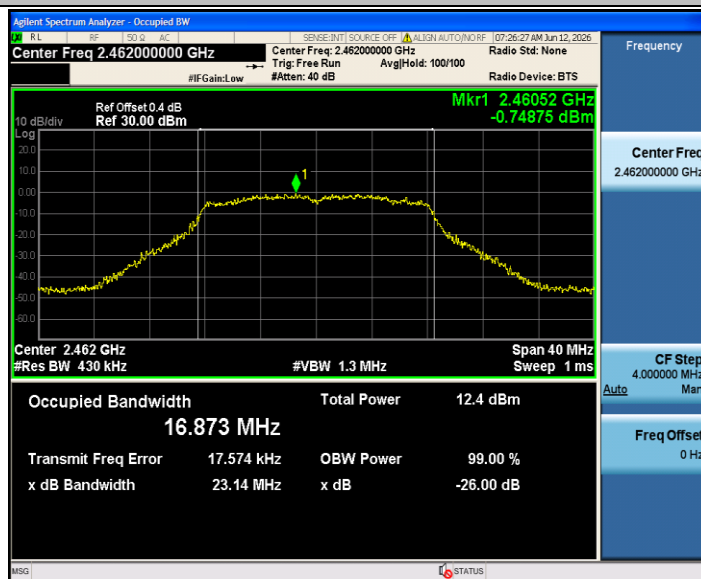
11G_Ant1_2412



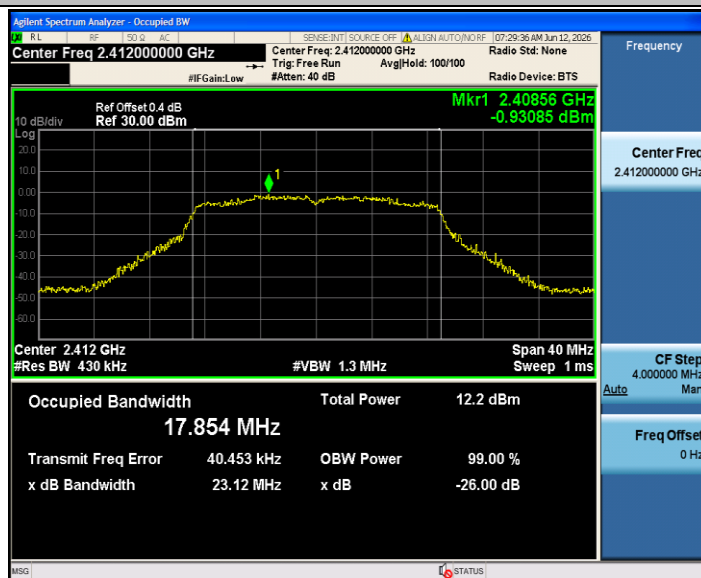
11G_Ant1_2437



11G_Ant1_2462



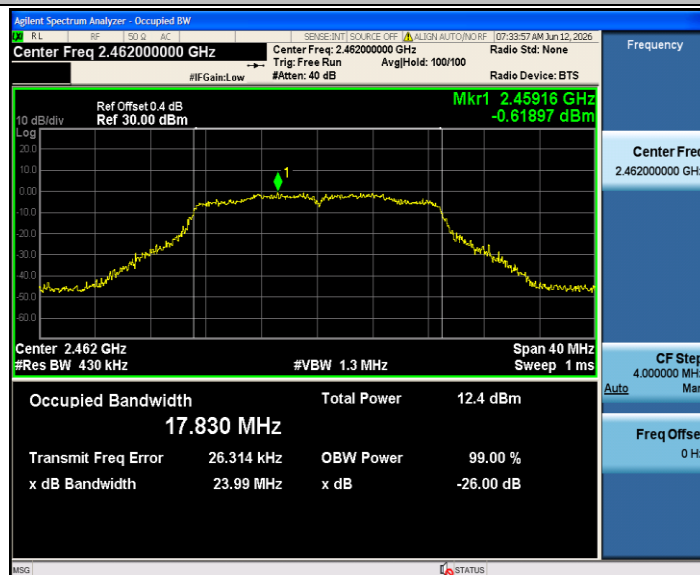
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[M Hz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.05	≤30.00	PASS
		2437	13.16	≤30.00	PASS
		2462	13.43	≤30.00	PASS
11G	Ant1	2412	13.09	≤30.00	PASS
		2437	13.26	≤30.00	PASS
		2462	13.37	≤30.00	PASS
11N20SISO	Ant1	2412	12.75	≤30.00	PASS
		2437	13.19	≤30.00	PASS
		2462	13.35	≤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	-13.06	≤8.00	PASS
		2437	-12.99	≤8.00	PASS
		2462	-11.85	≤8.00	PASS
11G	Ant1	2412	-18.95	≤8.00	PASS
		2437	-18.35	≤8.00	PASS
		2462	-17.56	≤8.00	PASS
11N20SISO	Ant1	2412	-18.20	≤8.00	PASS
		2437	-17.91	≤8.00	PASS
		2462	-17.75	≤8.00	PASS

Test Graphs

11B_Ant1_2412



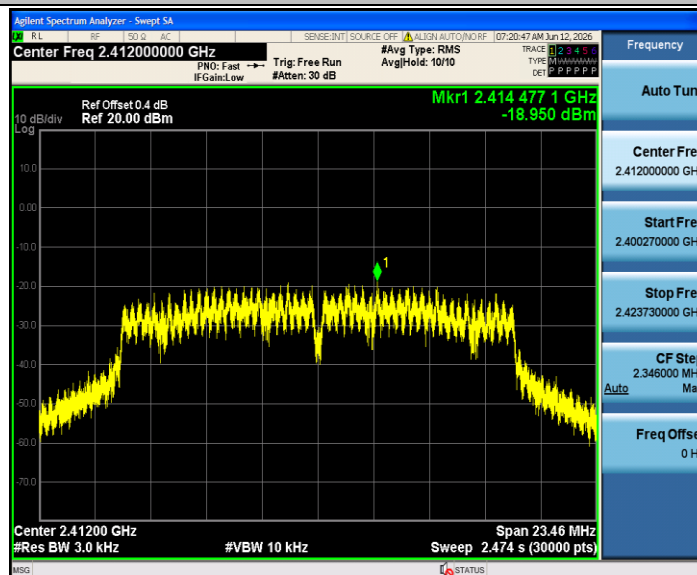
11B_Ant1_2437



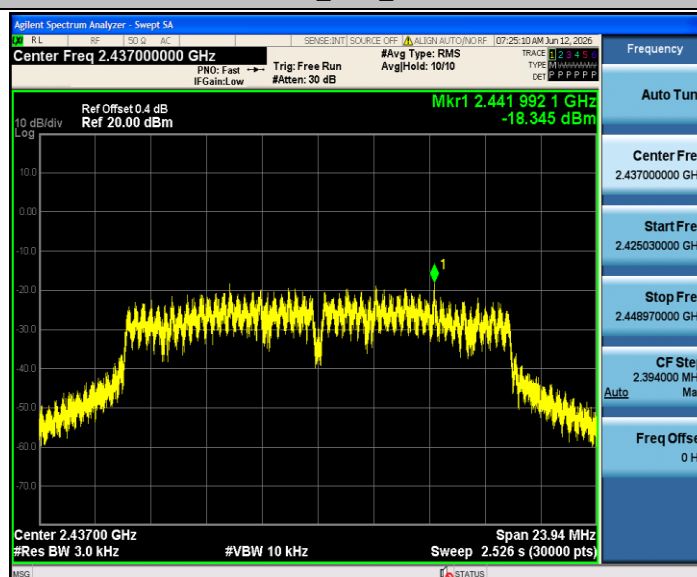
11B_Ant1_2462



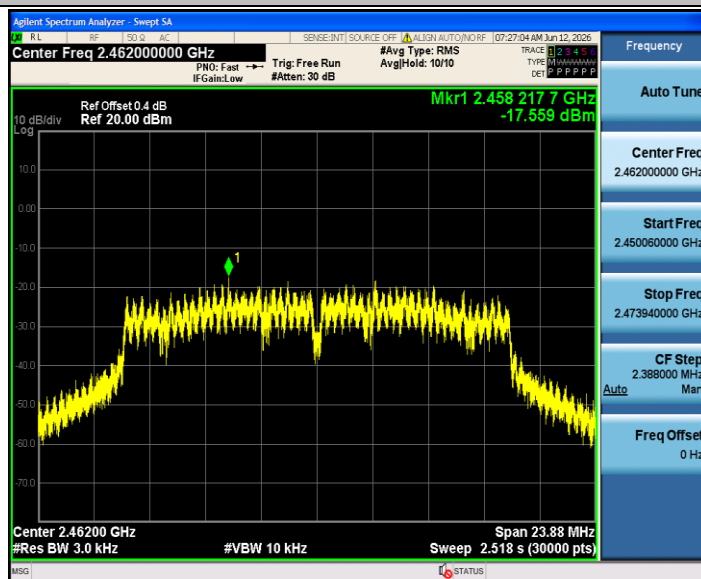
11G_Ant1_2412



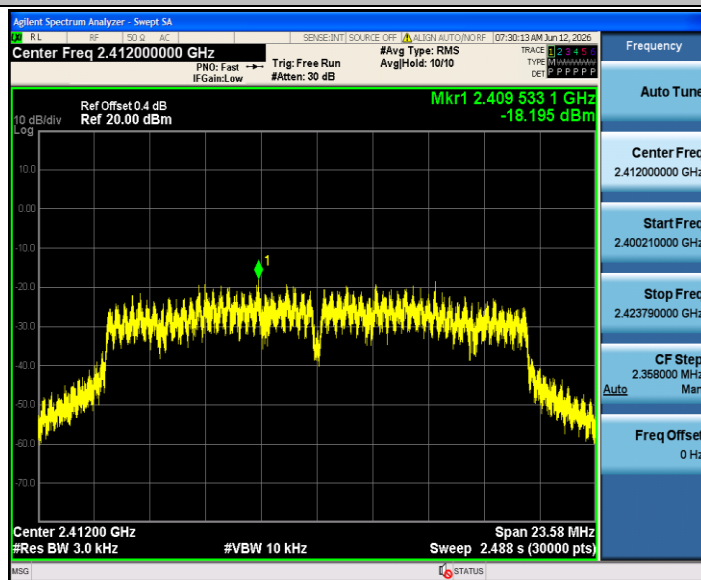
11G_Ant1_2437



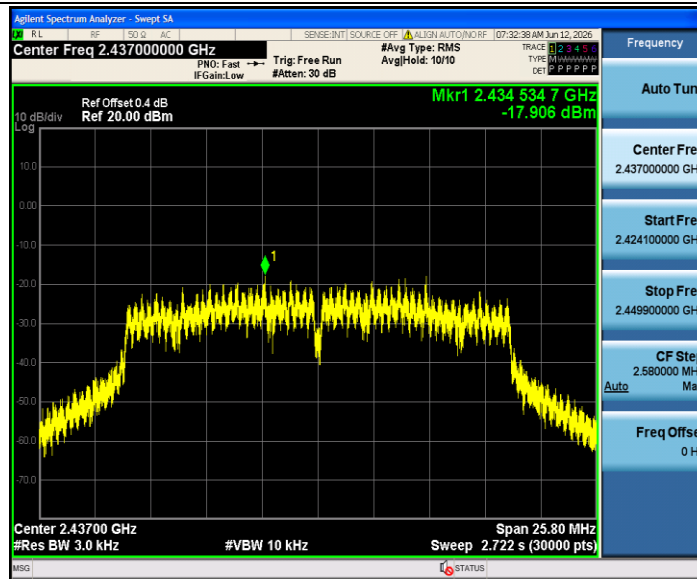
11G_Ant1_2462



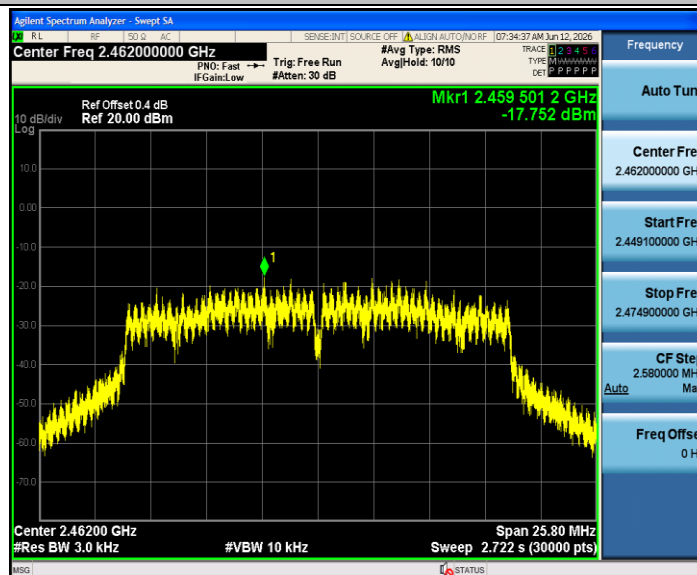
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



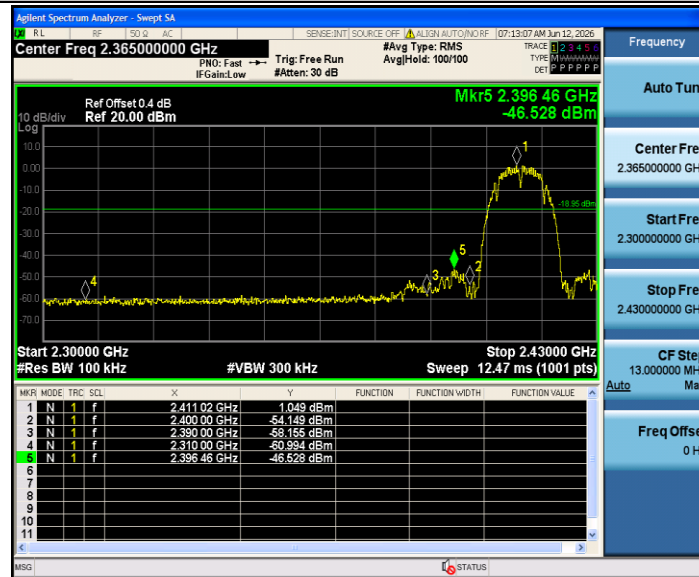
Appendix E: Band edge measurements

Test Result

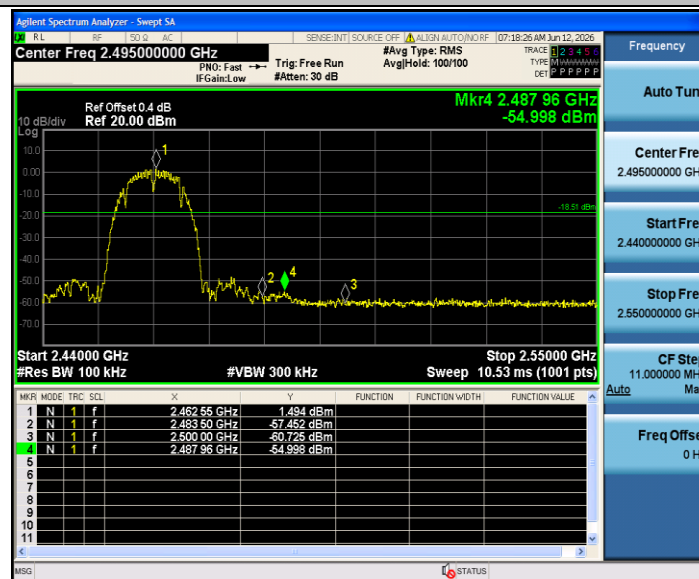
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.05	-46.53	≤-18.95	PASS
		High	2462	1.49	-55	≤-18.51	PASS
11G	Ant1	Low	2412	-3.56	-35.38	≤-23.56	PASS
		High	2462	-2.90	-57.56	≤-22.9	PASS
11N20SISO	Ant1	Low	2412	-3.48	-34.39	≤-23.48	PASS
		High	2462	-2.98	-57.65	≤-22.98	PASS

Test Graphs

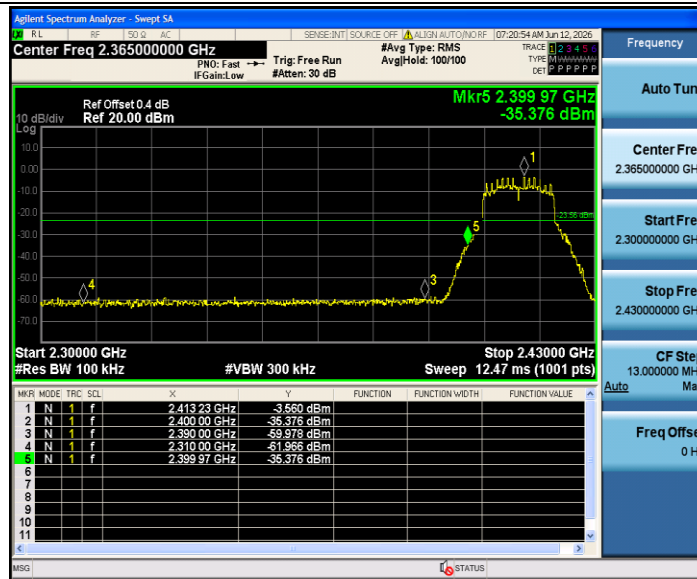
11B_Ant1_Low_2412



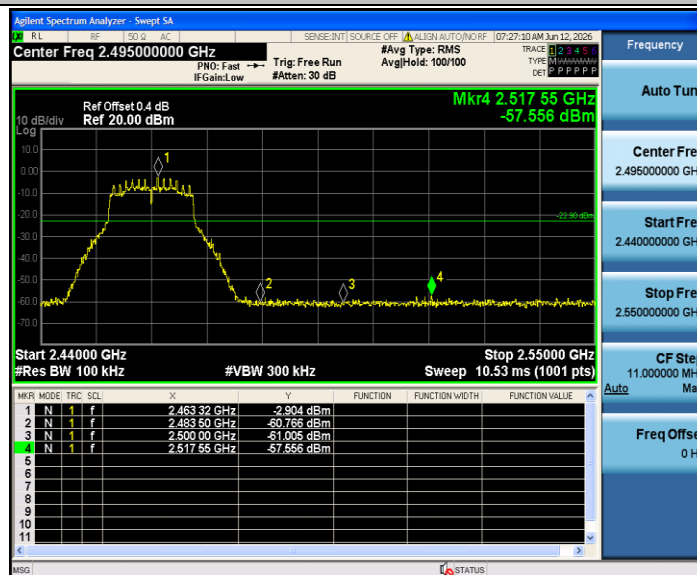
11B_Ant1_High_2462



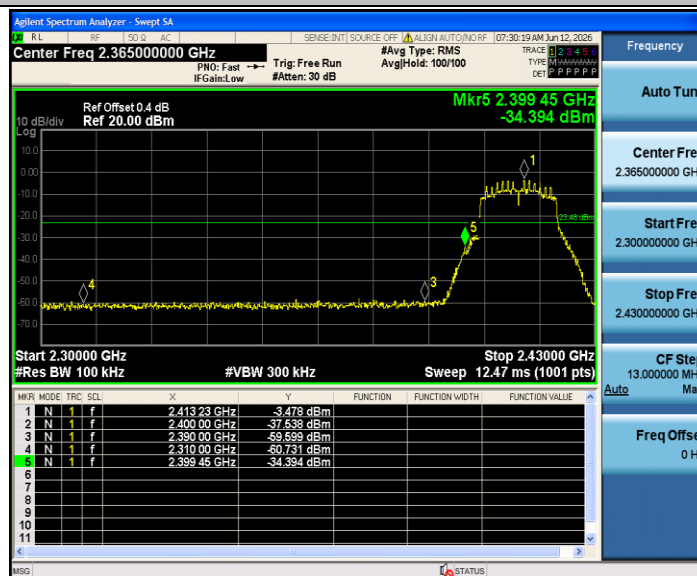
11G_Ant1_Low_2412



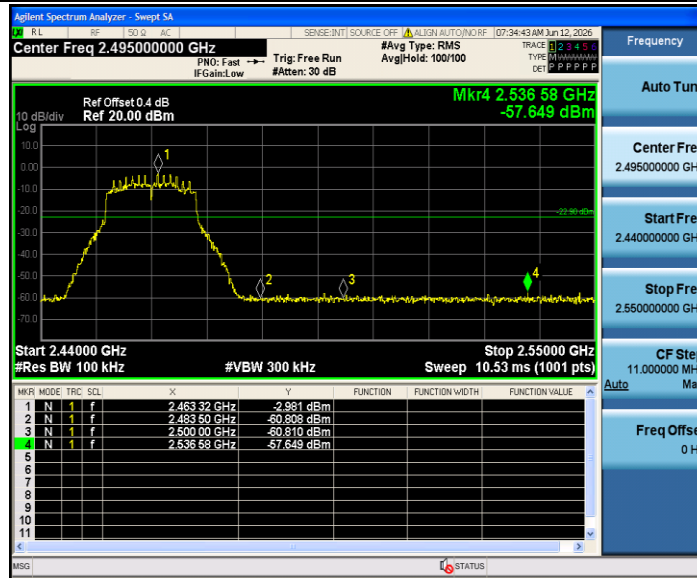
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

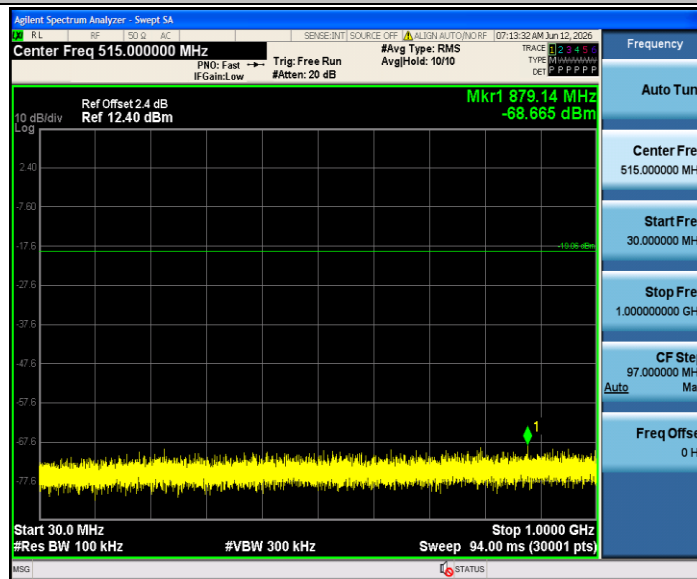
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.94	0.94	---	PASS
			30~1000	0.94	-68.67	≤-19.06	PASS
			1000~26500	0.94	-55.62	≤-19.06	PASS
		2437	Reference	0.29	0.29	---	PASS
			30~1000	0.29	-69.02	≤-19.71	PASS
			1000~26500	0.29	-56.57	≤-19.71	PASS
		2462	Reference	1.44	1.44	---	PASS
			30~1000	1.44	-68.83	≤-18.56	PASS
			1000~26500	1.44	-56.32	≤-18.56	PASS
11G	Ant1	2412	Reference	-4.56	-4.56	---	PASS
			30~1000	-4.56	-68.98	≤-24.56	PASS
			1000~26500	-4.56	-56.85	≤-24.56	PASS
		2437	Reference	-3.69	-3.69	---	PASS
			30~1000	-3.69	-67.72	≤-23.69	PASS
			1000~26500	-3.69	-57	≤-23.69	PASS
		2462	Reference	-3.70	-3.70	---	PASS
			30~1000	-3.70	-68.45	≤-23.7	PASS
			1000~26500	-3.70	-56.86	≤-23.7	PASS
11N20SISO	Ant1	2412	Reference	-3.65	-3.65	---	PASS
			30~1000	-3.65	-69.09	≤-23.65	PASS
			1000~26500	-3.65	-56.72	≤-23.65	PASS
		2437	Reference	-4.40	-4.40	---	PASS
			30~1000	-4.40	-68.75	≤-24.4	PASS
			1000~26500	-4.40	-56.88	≤-24.4	PASS
		2462	Reference	-3.54	-3.54	---	PASS
			30~1000	-3.54	-68.79	≤-23.54	PASS
			1000~26500	-3.54	-56.38	≤-23.54	PASS

Test Graphs

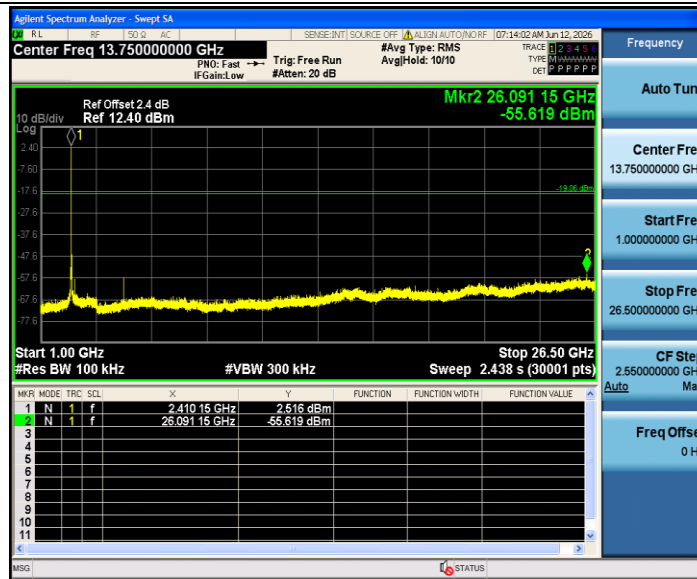
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



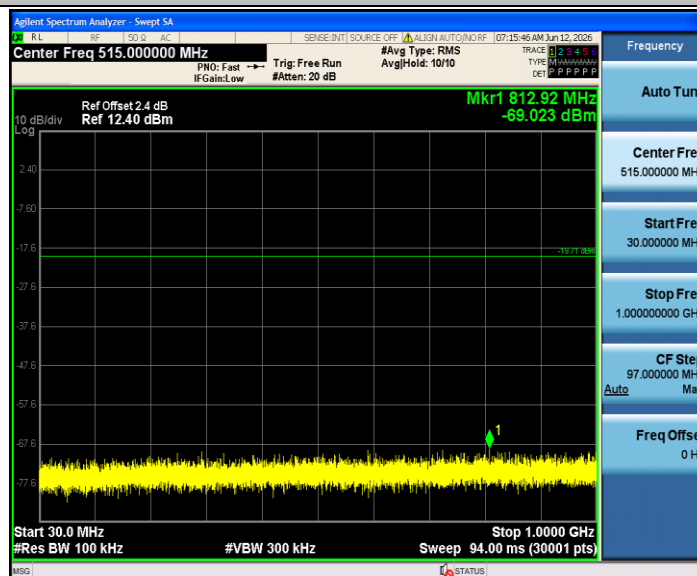
11B_Ant1_2412_1000~26500



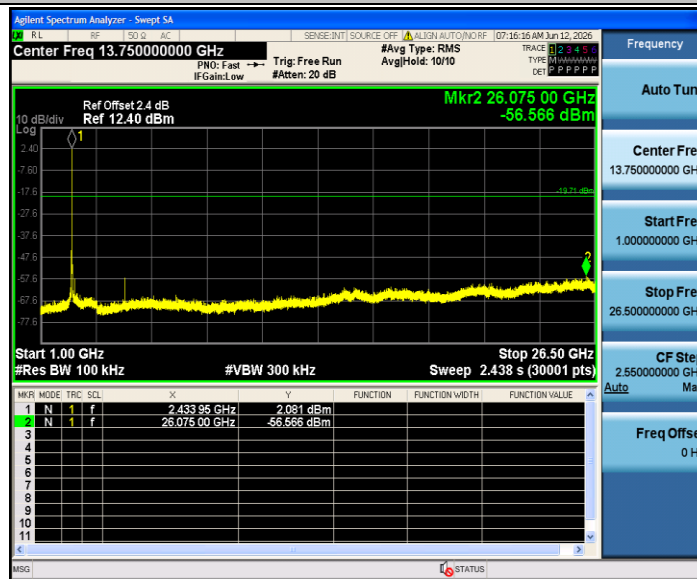
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



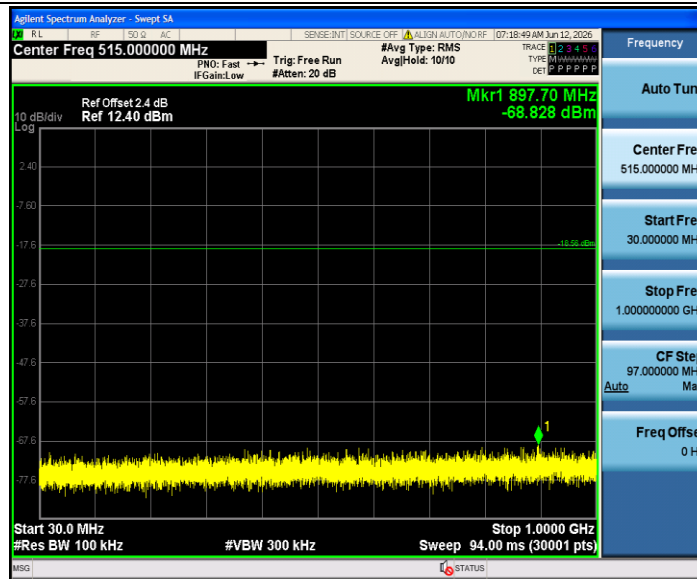
11B_Ant1_2437_1000~26500



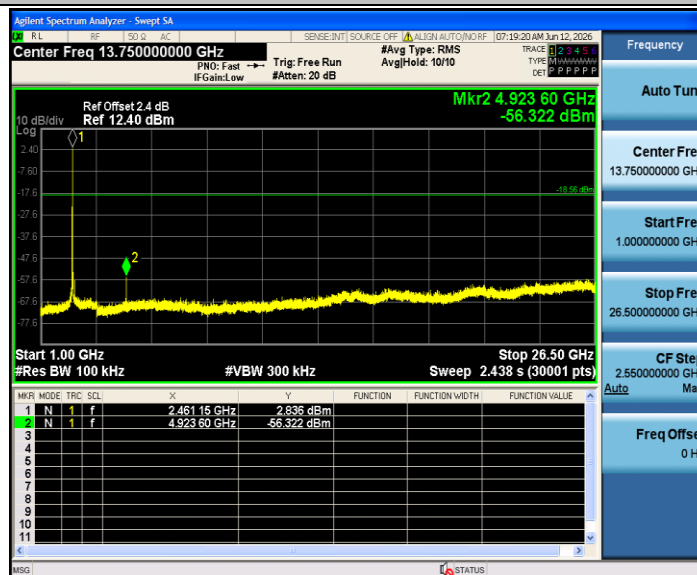
11B_Ant1_2462_0~Reference



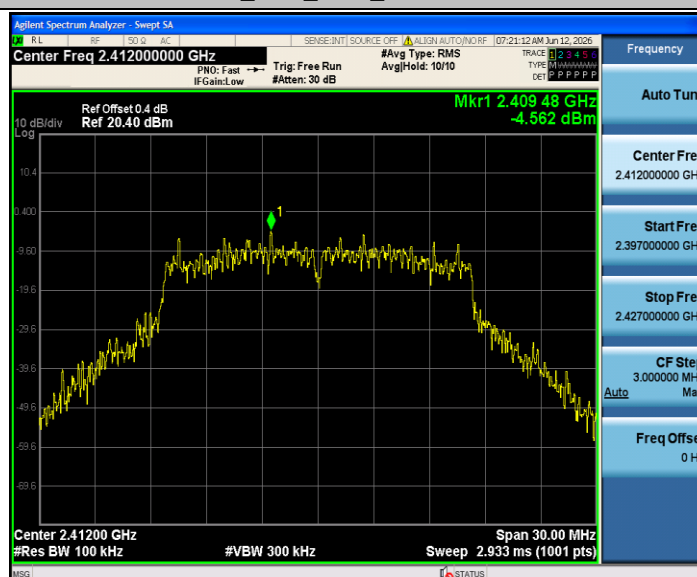
11B_Ant1_2462_30~1000



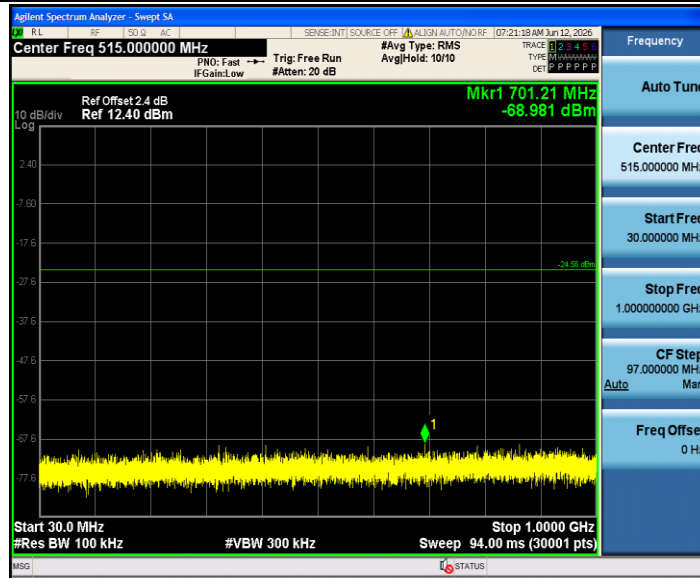
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



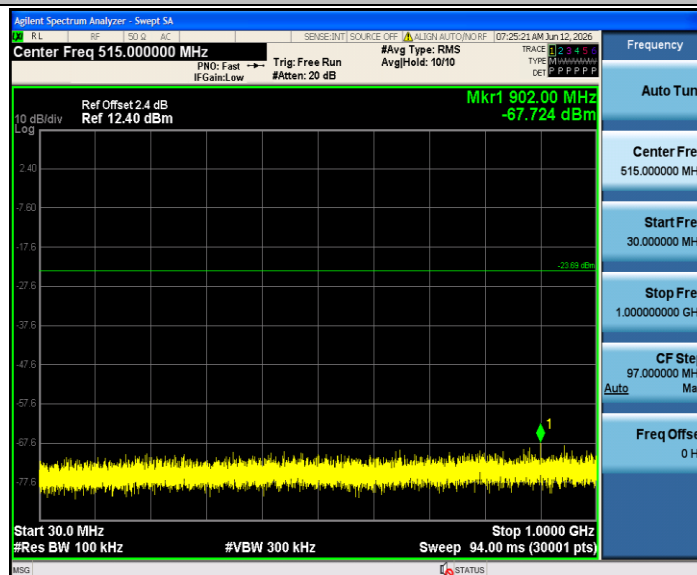
11G_Ant1_2412_1000~26500



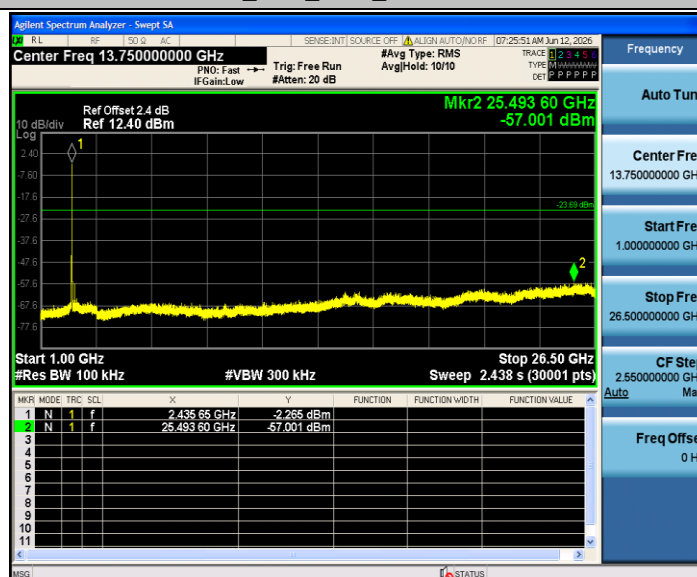
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



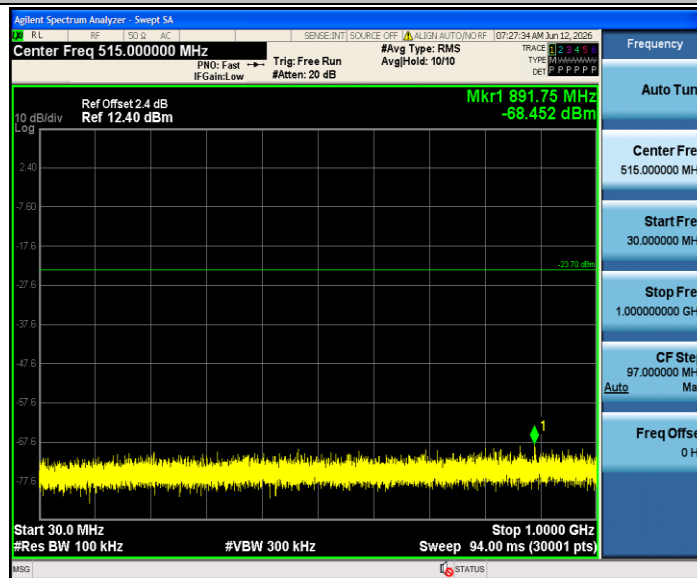
11G_Ant1_2437_1000~26500



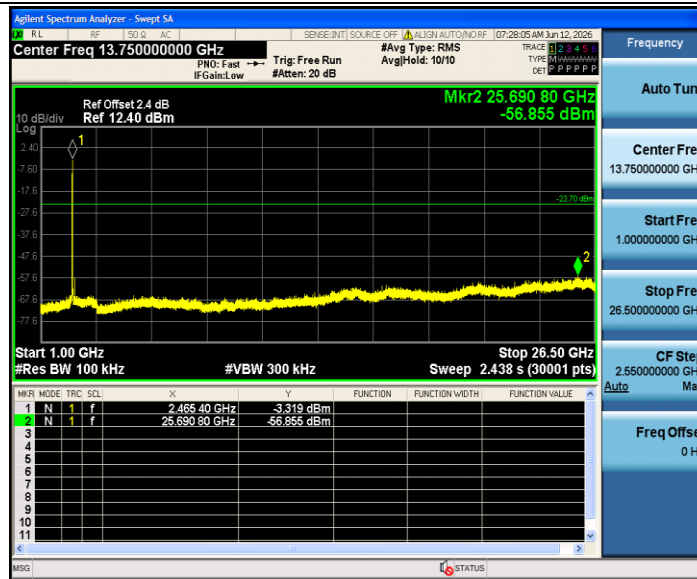
11G_Ant1_2462_0~Reference



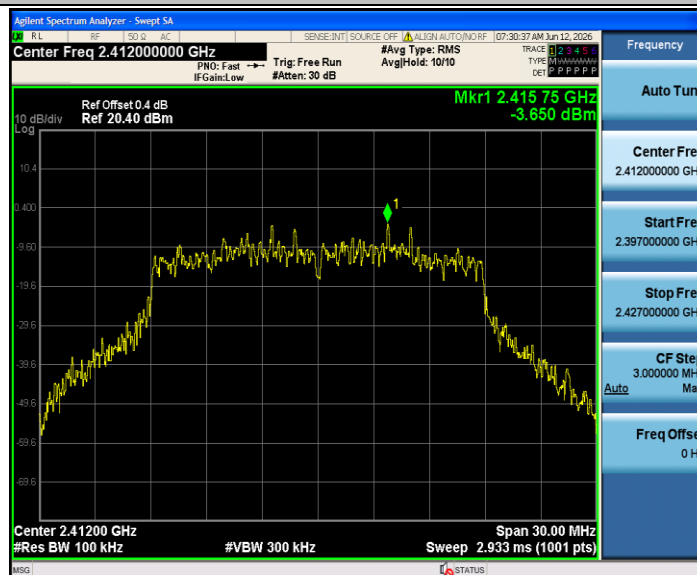
11G_Ant1_2462_30~1000



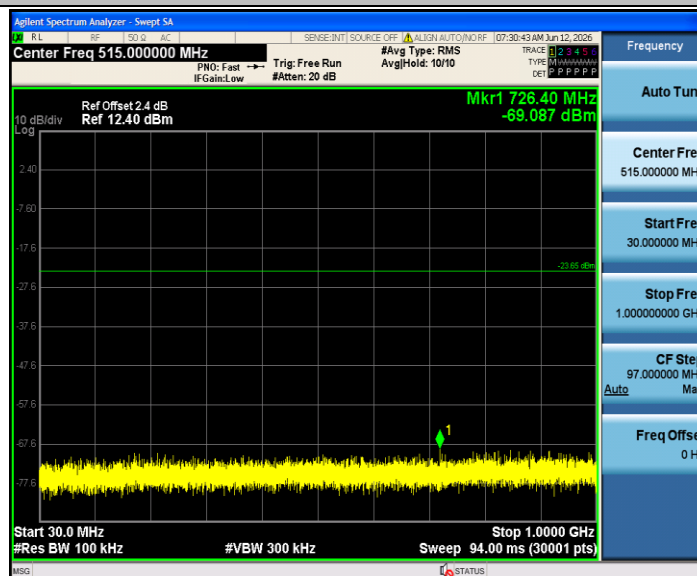
11G_Ant1_2462_1000~26500



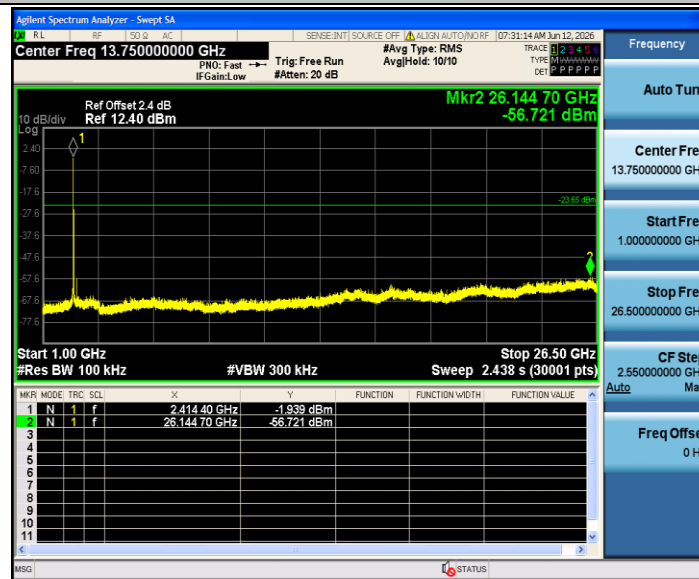
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



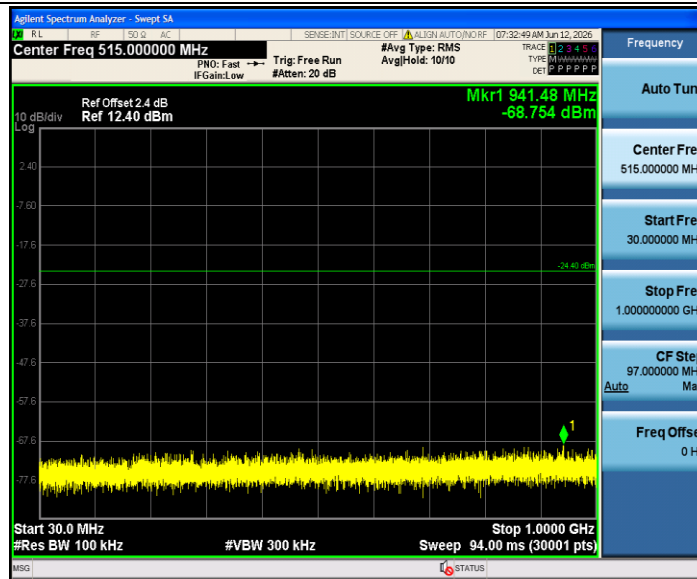
11N20SISO_Ant1_2412_1000~26500



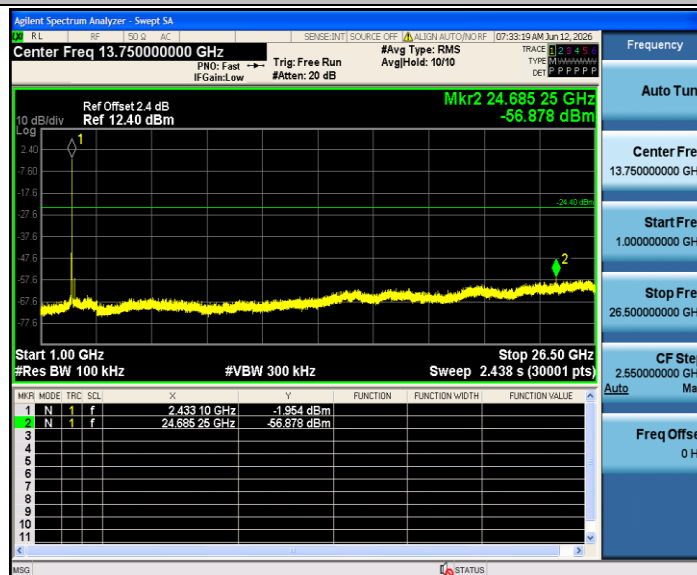
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference

