

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BXJB-016LB

Company : Dongguan LANG LANG Moutain Technology Co.,Limited.

EUT : Surveillance camera

Model Number : 016LB

Report No. : CTA26070800201

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	10.200	2431.920	2442.120	0.5	PASS
		2462	10.200	2456.960	2467.160	0.5	PASS
11G	Ant1	2412	15.400	2404.400	2419.800	0.5	PASS
		2437	15.720	2429.080	2444.800	0.5	PASS
		2462	15.800	2454.200	2470.000	0.5	PASS
11N20SISO	Ant1	2412	16.480	2404.040	2420.520	0.5	PASS
		2437	16.120	2428.680	2444.800	0.5	PASS
		2462	16.720	2453.680	2470.400	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



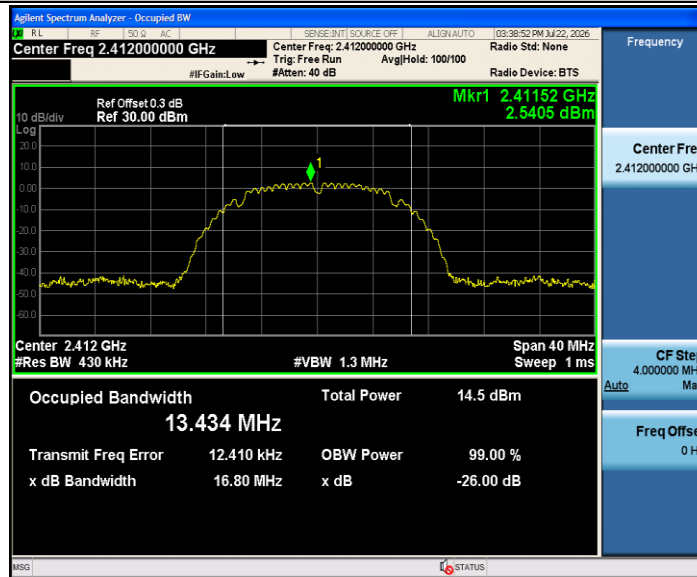
Appendix B: Occupied Channel Bandwidth

Test Result

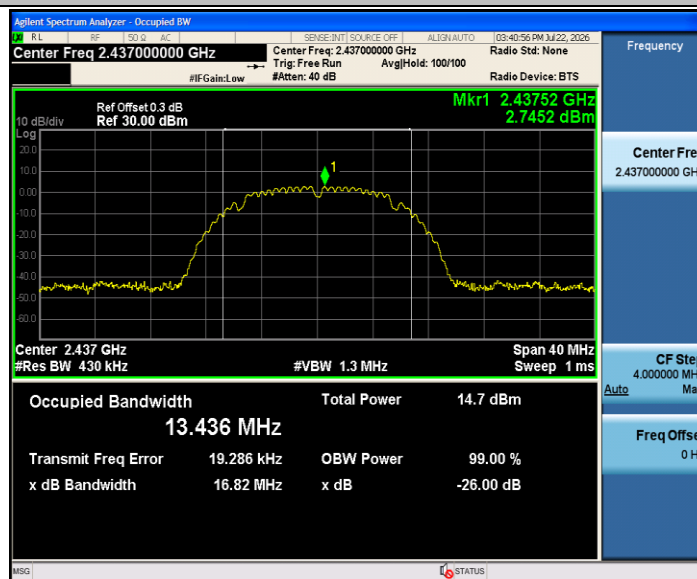
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.434	2405.2954	2418.7294	---	---
		2437	13.436	2430.3013	2443.7373	---	---
		2462	13.427	2455.3143	2468.7413	---	---
11G	Ant1	2412	16.893	2403.5499	2420.4429	---	---
		2437	16.831	2428.6589	2445.4899	---	---
		2462	16.884	2453.6453	2470.5293	---	---
11N20SISO	Ant1	2412	17.881	2403.0638	2420.9448	---	---
		2437	17.876	2428.1011	2445.9771	---	---
		2462	17.871	2453.0689	2470.9399	---	---

Test Graphs

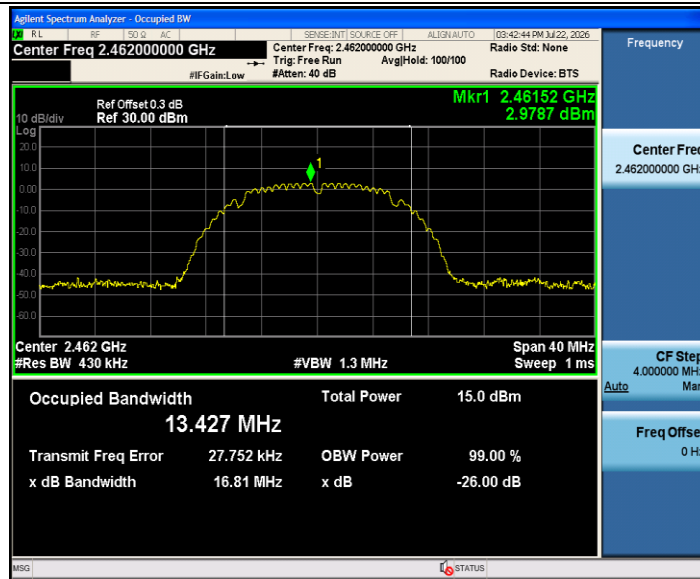
11B_Ant1_2412



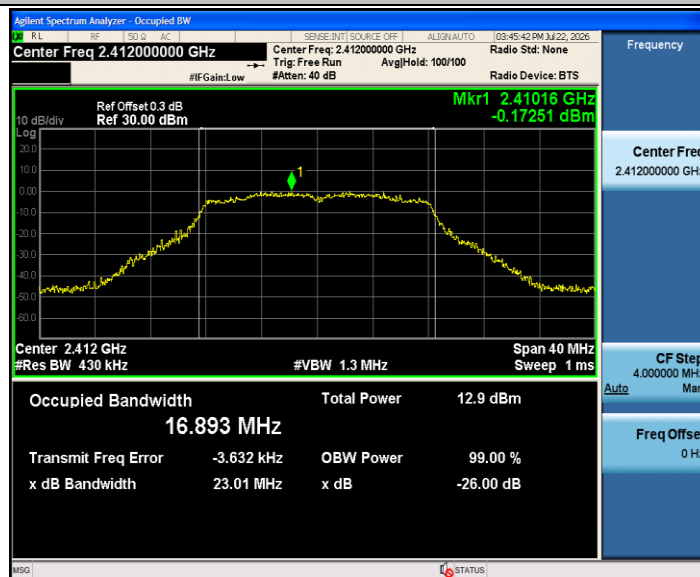
11B_Ant1_2437



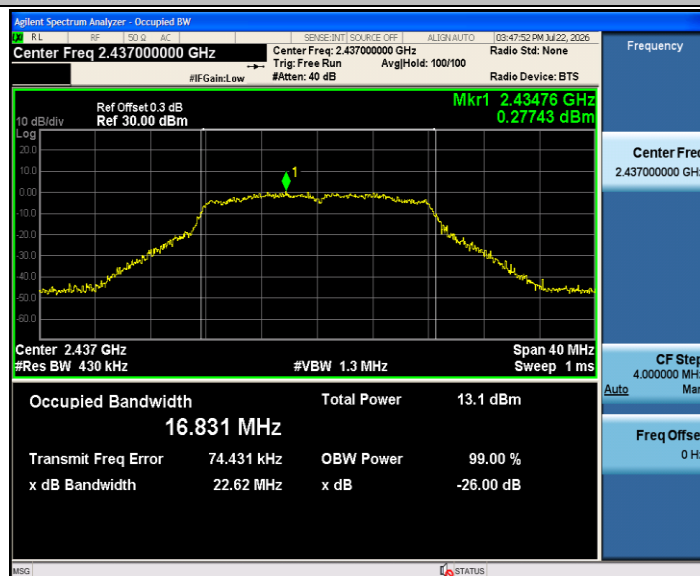
11B_Ant1_2462



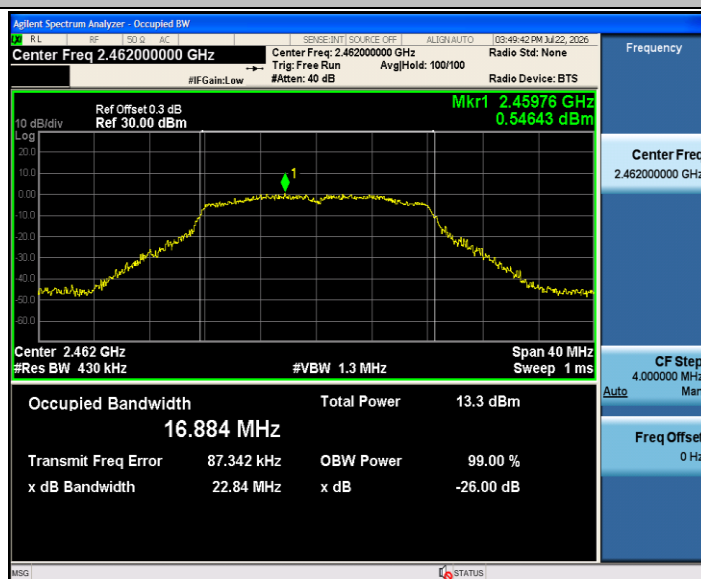
11G_Ant1_2412



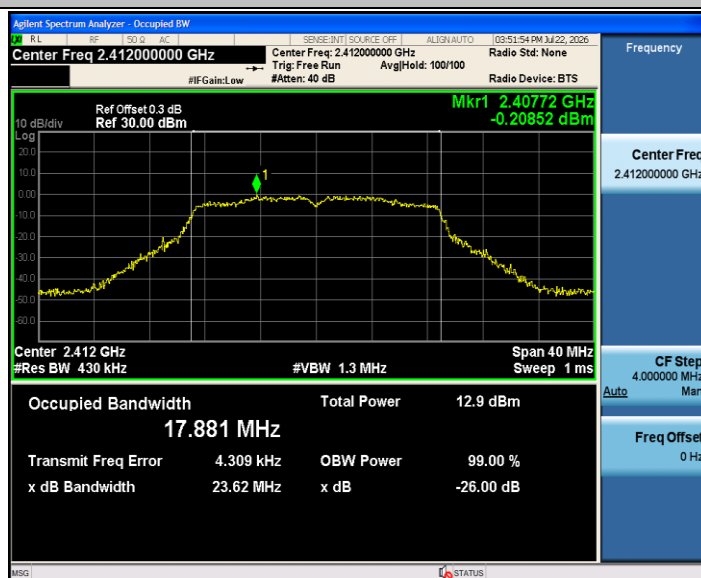
11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.30	≤30.00	PASS
		2437	14.39	≤30.00	PASS
		2462	14.60	≤30.00	PASS
11G	Ant1	2412	13.67	≤30.00	PASS
		2437	13.93	≤30.00	PASS
		2462	14.16	≤30.00	PASS
11N20SISO	Ant1	2412	13.62	≤30.00	PASS
		2437	13.74	≤30.00	PASS
		2462	14.02	≤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	-11.07	≤8.00	PASS
		2437	-10.81	≤8.00	PASS
		2462	-11.47	≤8.00	PASS
11G	Ant1	2412	-18.04	≤8.00	PASS
		2437	-17.42	≤8.00	PASS
		2462	-18.02	≤8.00	PASS
11N20SISO	Ant1	2412	-17.73	≤8.00	PASS
		2437	-15.89	≤8.00	PASS
		2462	-17.22	≤8.00	PASS

Test Graphs

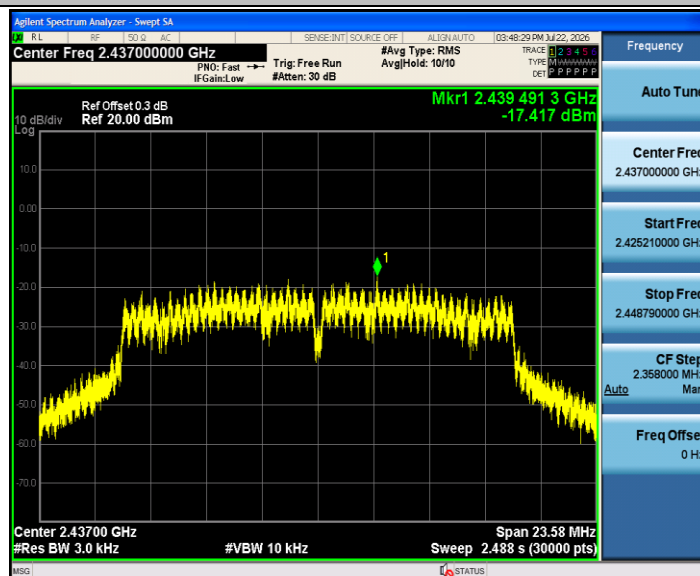
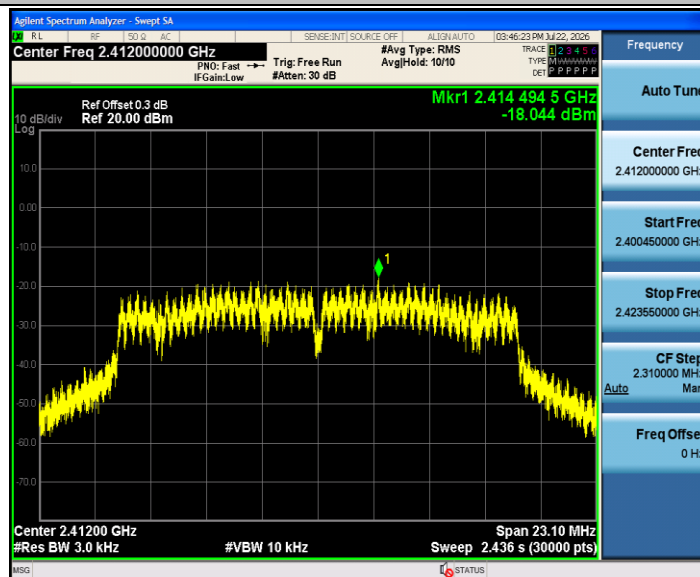
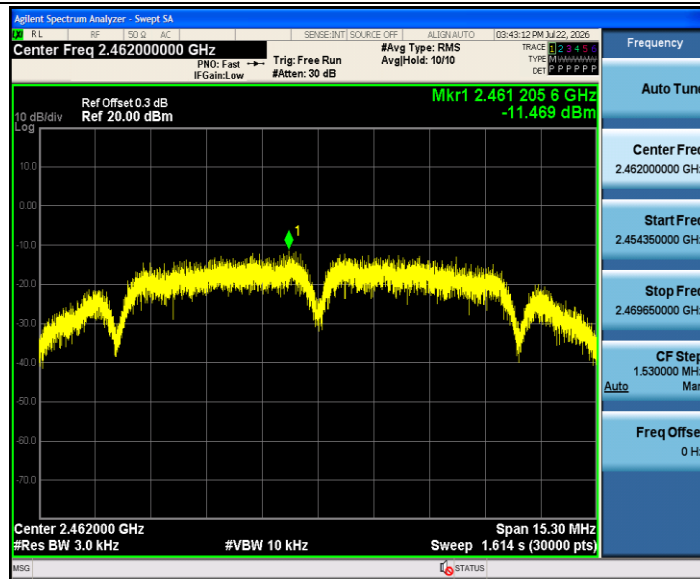
11B_Ant1_2412



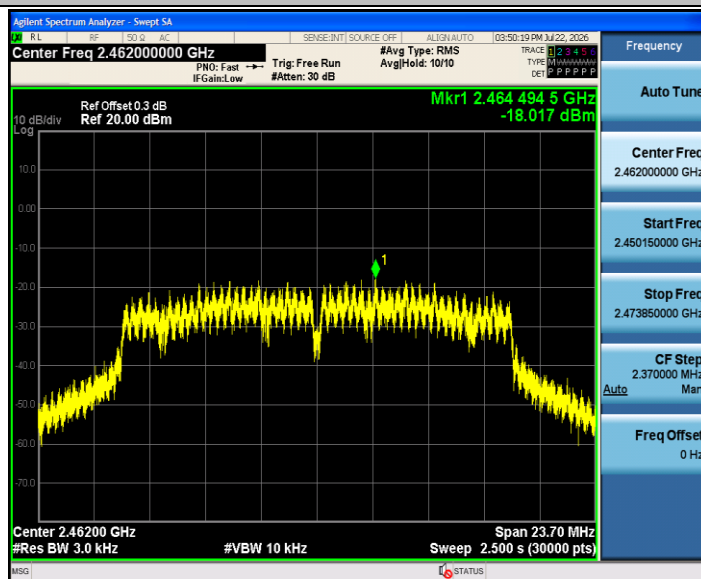
11B_Ant1_2437



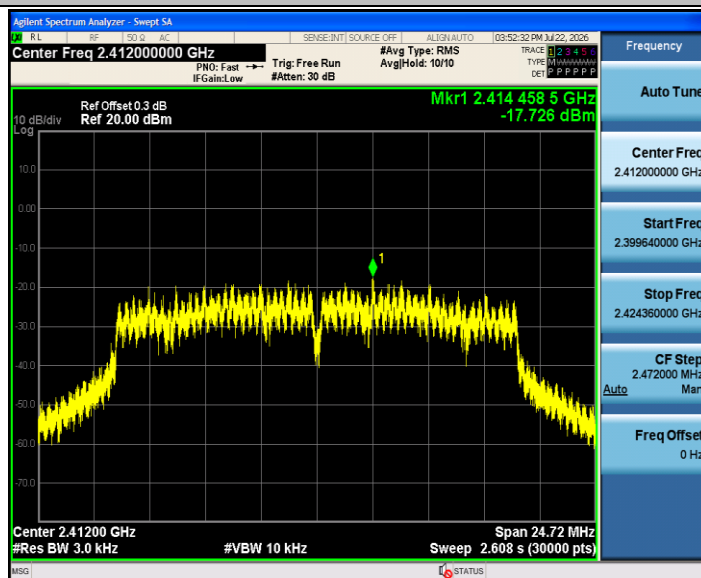
11B_Ant1_2462



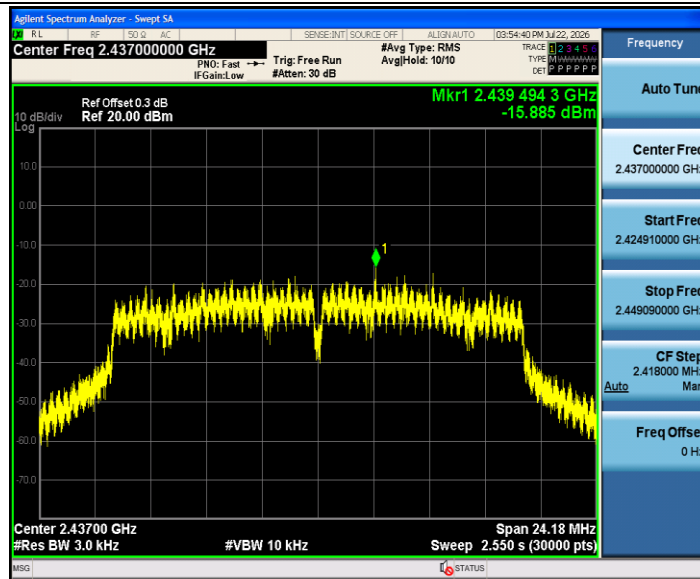
11G_Ant1_2462



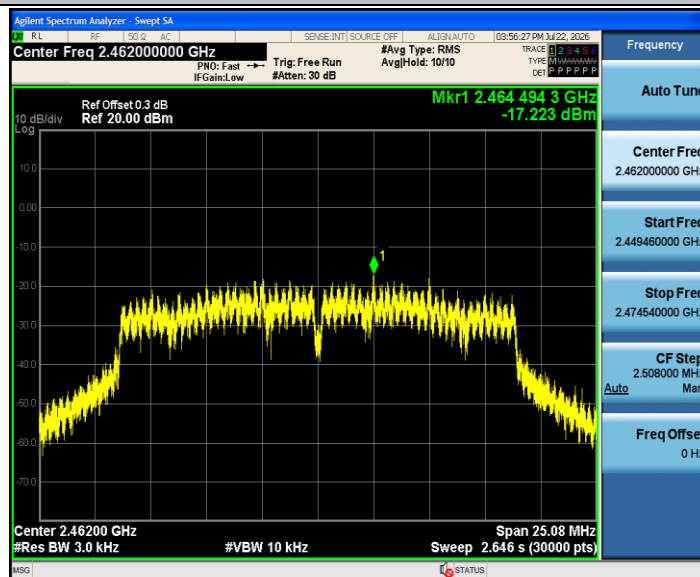
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



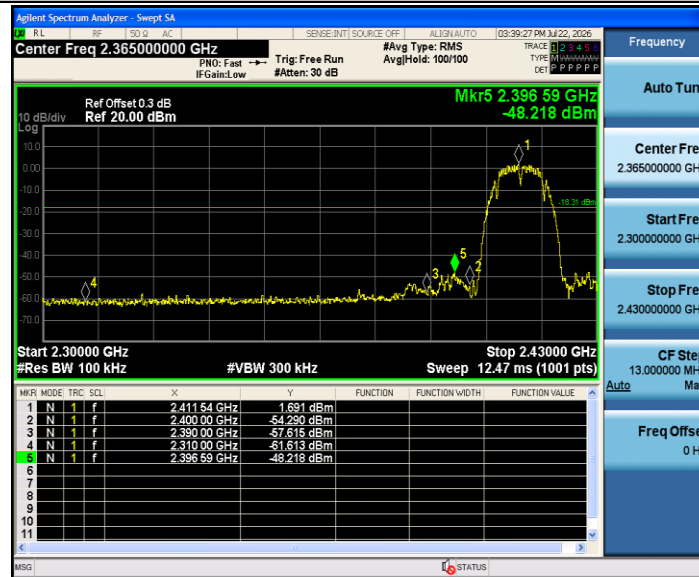
Appendix E: Band edge measurements

Test Result

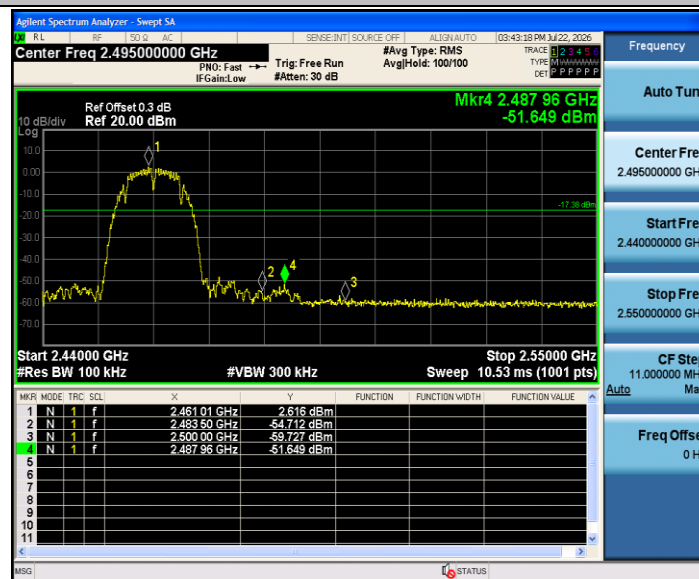
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.69	-48.22	≤-18.31	PASS
		High	2462	2.62	-51.65	≤-17.38	PASS
11G	Ant1	Low	2412	-2.63	-34.71	≤-22.63	PASS
		High	2462	-2.22	-57.69	≤-22.22	PASS
11N20SISO	Ant1	Low	2412	-2.72	-33.22	≤-22.72	PASS
		High	2462	-2.25	-57.41	≤-22.25	PASS

Test Graphs

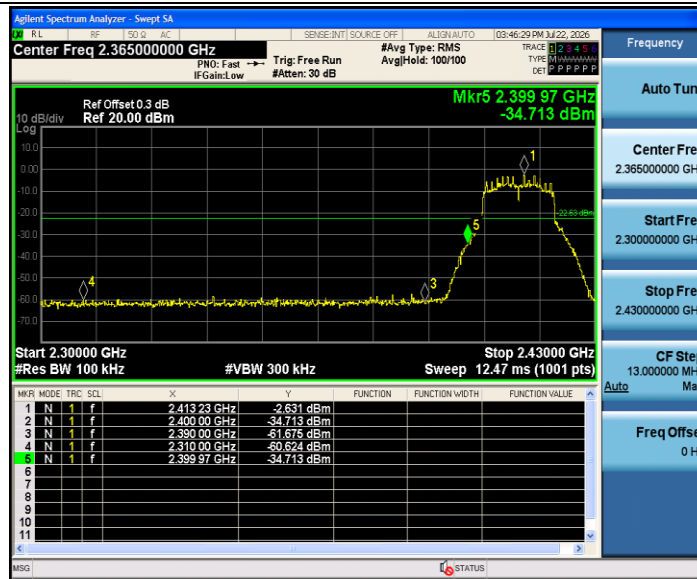
11B_Ant1_Low_2412



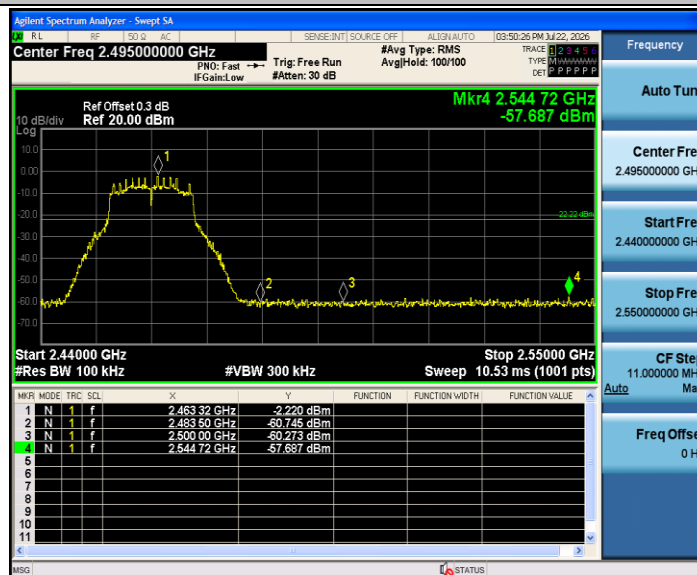
11B_Ant1_High_2462



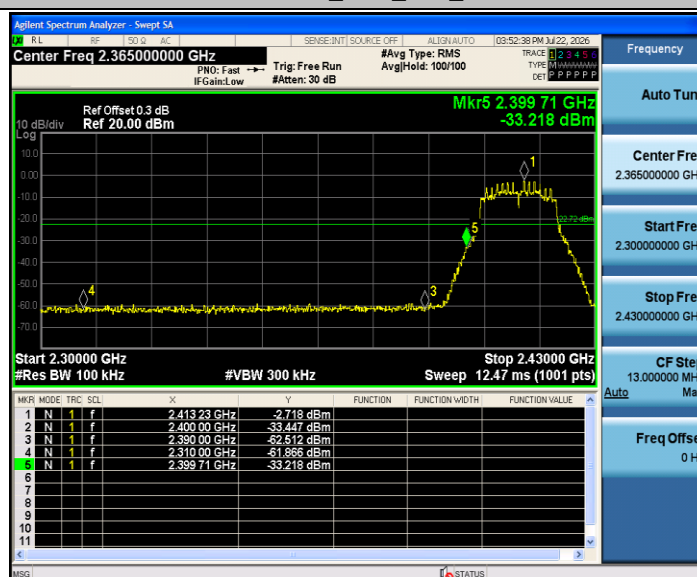
11G_Ant1_Low_2412



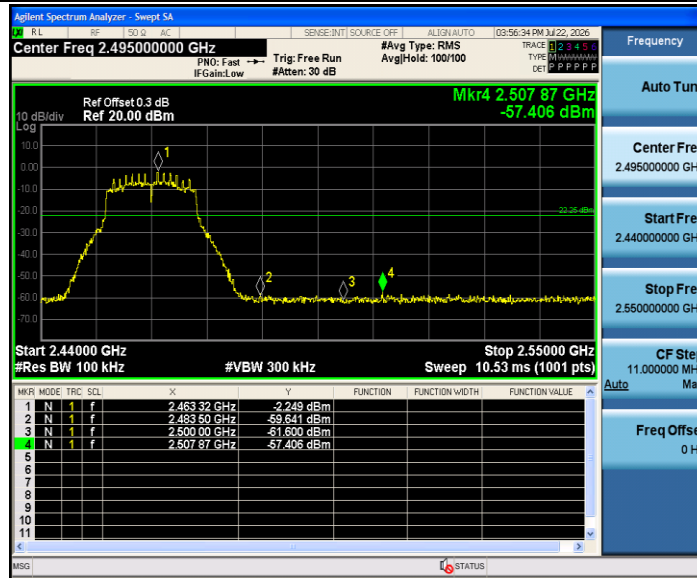
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

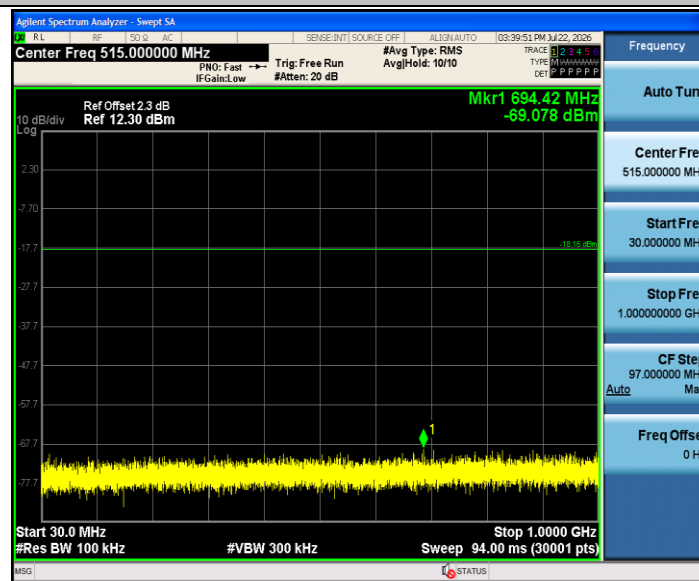
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.84	1.84	---	PASS
			30~1000	1.84	-69.08	≤-18.16	PASS
			1000~26500	1.84	-46.96	≤-18.16	PASS
		2437	Reference	2.11	2.11	---	PASS
			30~1000	2.11	-69.11	≤-17.89	PASS
			1000~26500	2.11	-45.63	≤-17.89	PASS
		2462	Reference	2.37	2.37	---	PASS
			30~1000	2.37	-69.18	≤-17.63	PASS
			1000~26500	2.37	-46.49	≤-17.63	PASS
11G	Ant1	2412	Reference	-2.62	-2.62	---	PASS
			30~1000	-2.62	-69.17	≤-22.62	PASS
			1000~26500	-2.62	-46.69	≤-22.62	PASS
		2437	Reference	-3.18	-3.18	---	PASS
			30~1000	-3.18	-68.94	≤-23.18	PASS
			1000~26500	-3.18	-47.16	≤-23.18	PASS
		2462	Reference	-2.60	-2.60	---	PASS
			30~1000	-2.60	-69.29	≤-22.6	PASS
			1000~26500	-2.60	-46.84	≤-22.6	PASS
11N20SISO	Ant1	2412	Reference	-3.64	-3.64	---	PASS
			30~1000	-3.64	-69.32	≤-23.64	PASS
			1000~26500	-3.64	-45.57	≤-23.64	PASS
		2437	Reference	-2.84	-2.84	---	PASS
			30~1000	-2.84	-69.49	≤-22.84	PASS
			1000~26500	-2.84	-47.29	≤-22.84	PASS
		2462	Reference	-2.56	-2.56	---	PASS
			30~1000	-2.56	-69.09	≤-22.56	PASS
			1000~26500	-2.56	-46.86	≤-22.56	PASS

Test Graphs

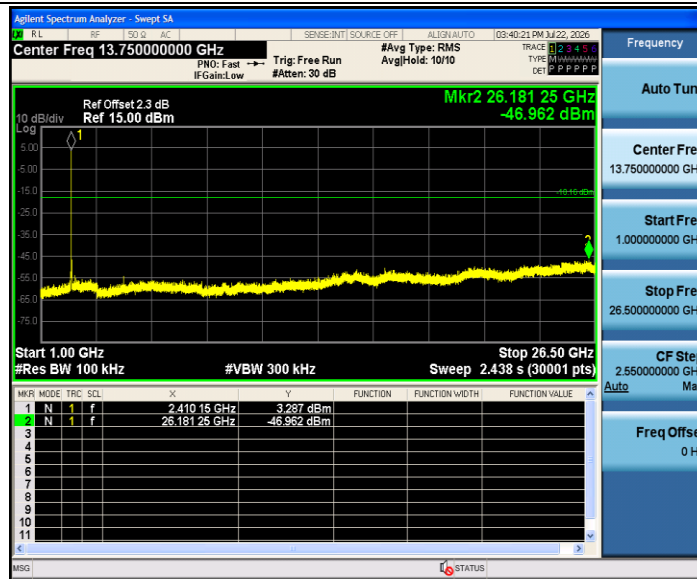
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



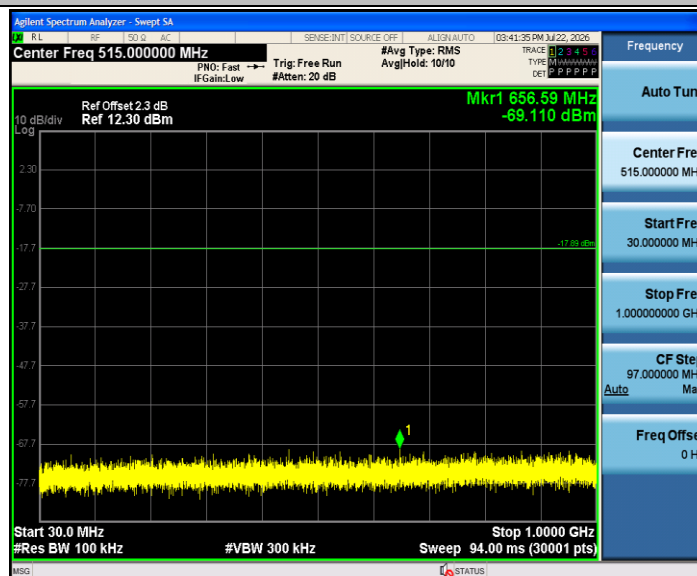
11B_Ant1_2412_1000~26500



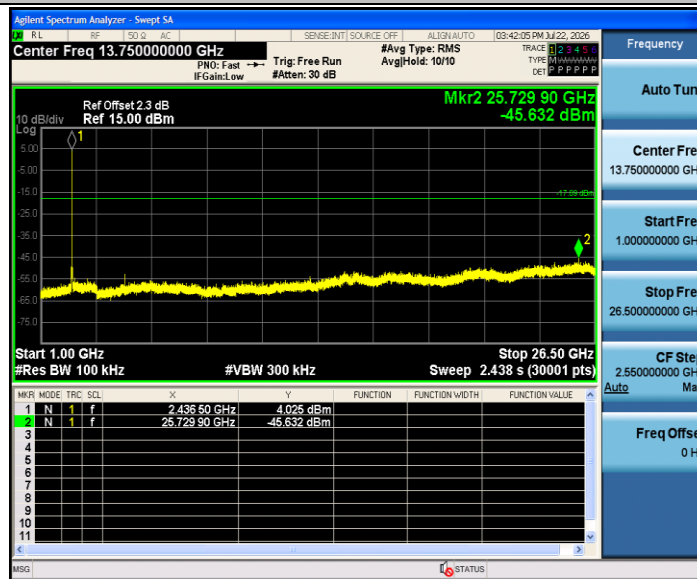
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



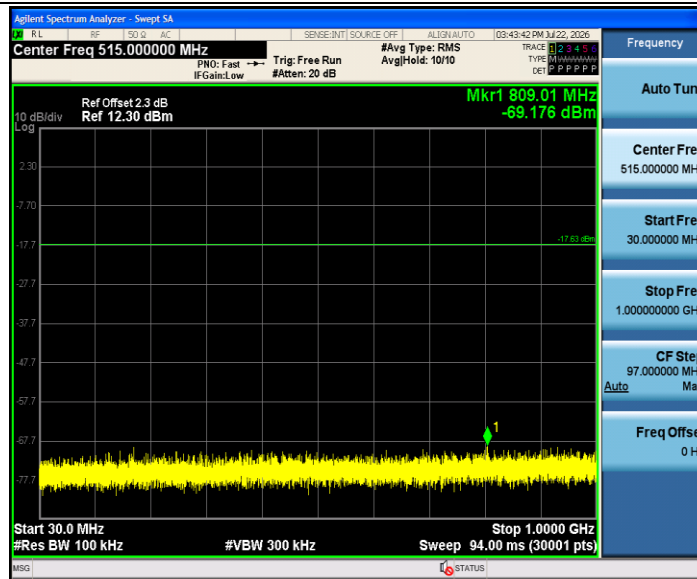
11B_Ant1_2437_1000~26500



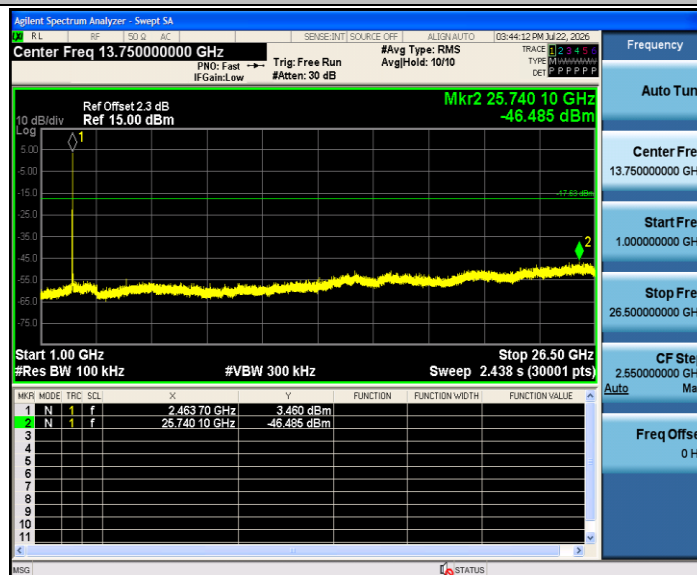
11B_Ant1_2462_0~Reference



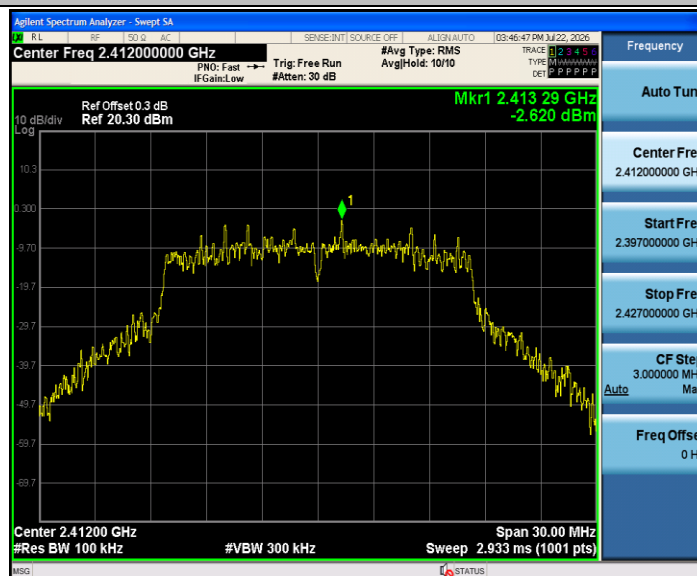
11B_Ant1_2462_30~1000



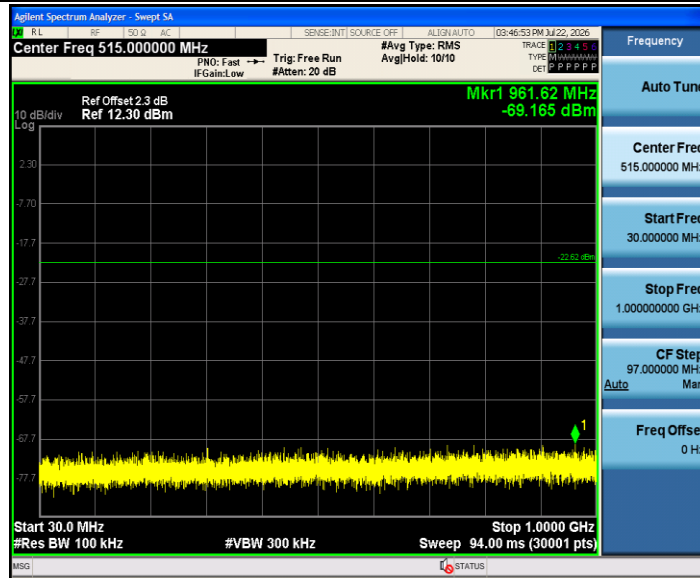
11B_Ant1_2462_1000~26500



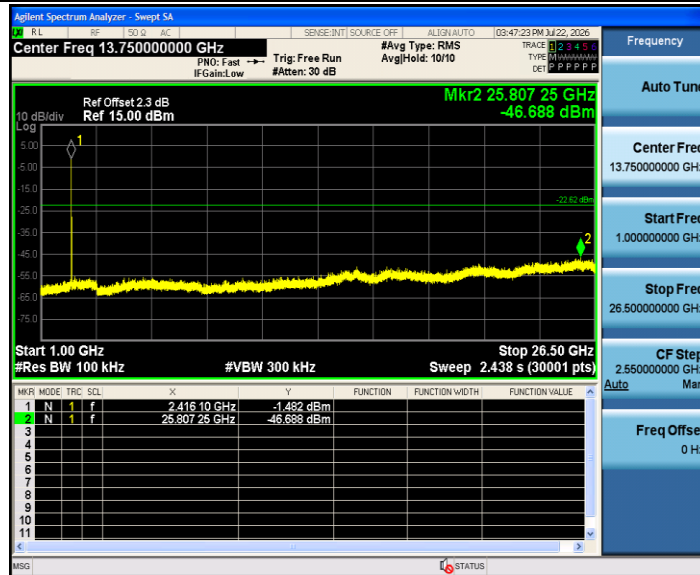
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



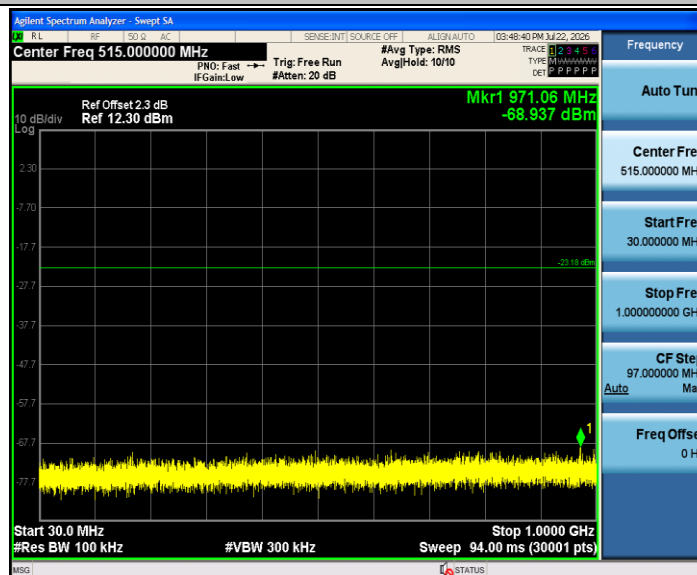
11G_Ant1_2412_1000~26500



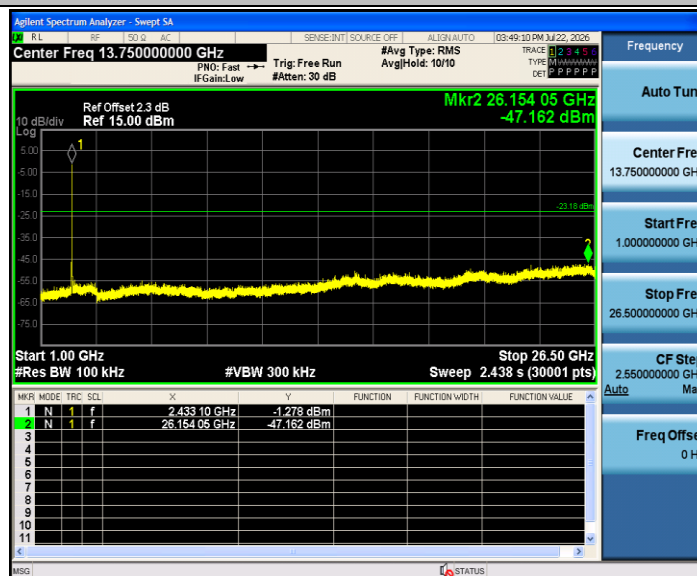
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



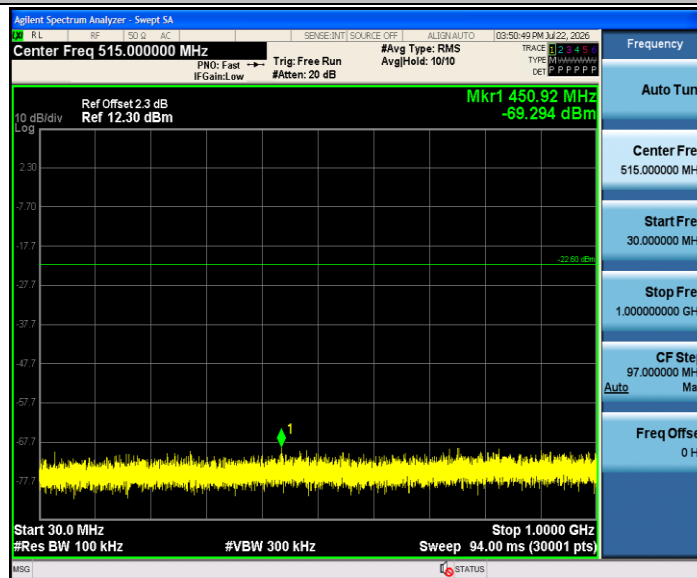
11G_Ant1_2437_1000~26500



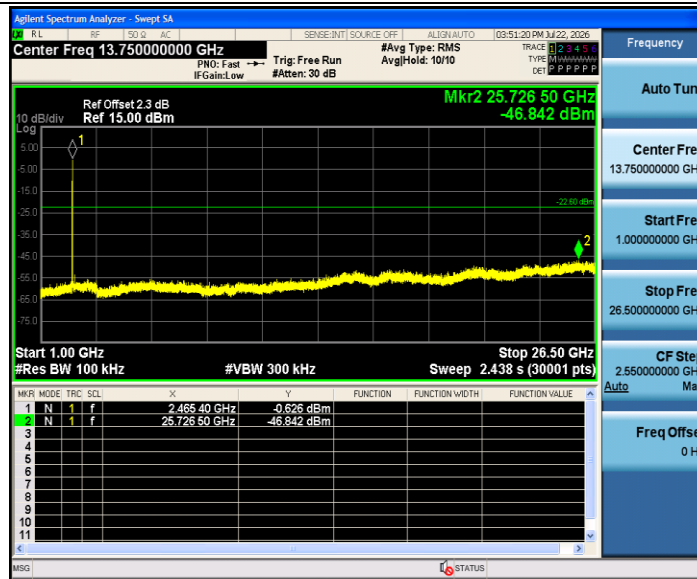
11G_Ant1_2462_0~Reference



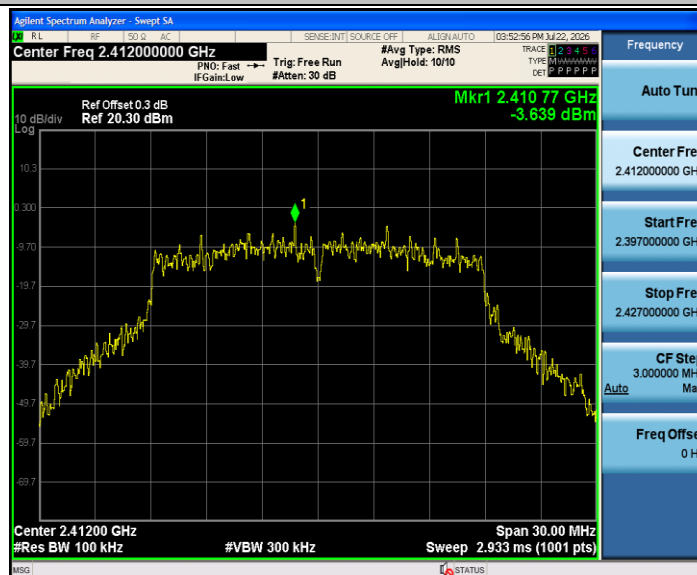
11G_Ant1_2462_30~1000



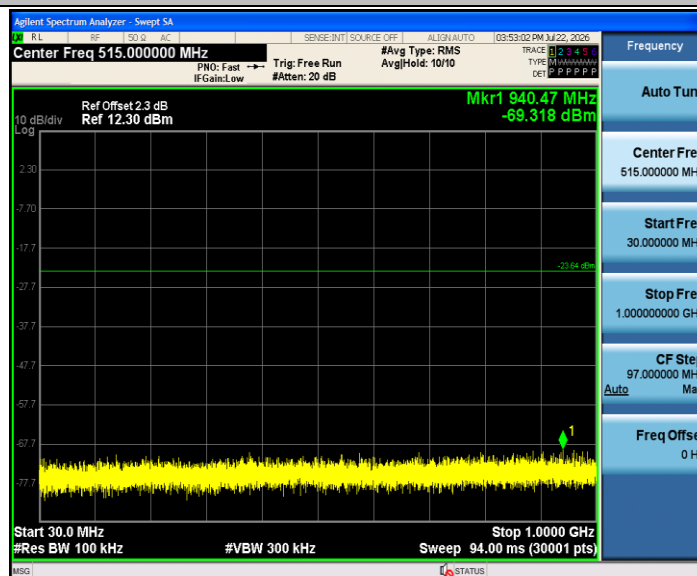
11G_Ant1_2462_1000~26500



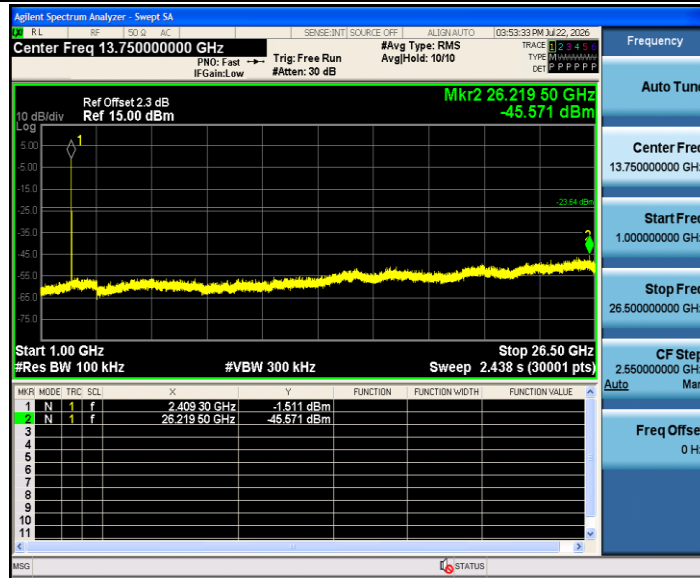
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



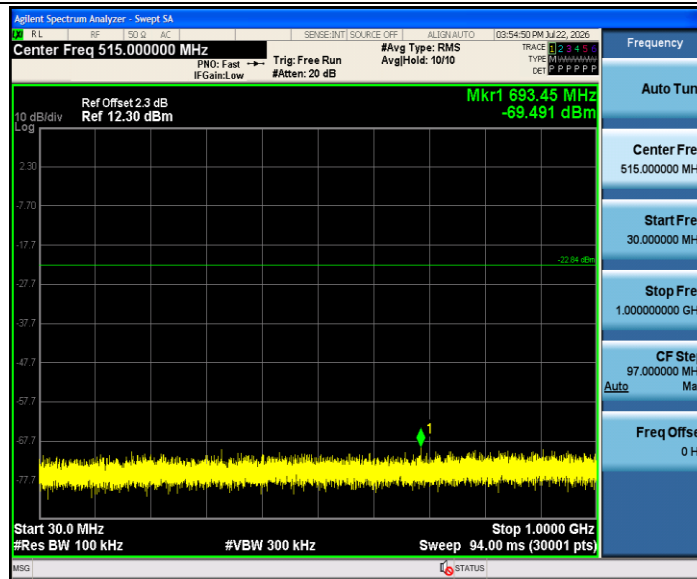
11N20SISO_Ant1_2412_1000~26500



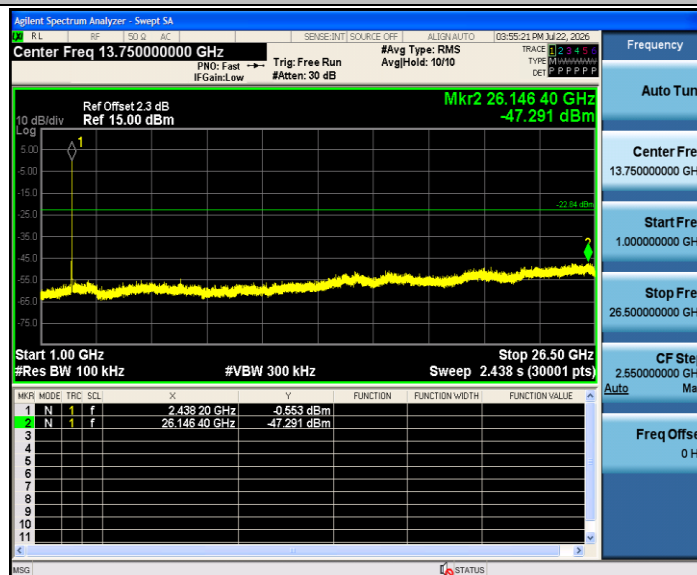
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference

