

Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BA4J-NVMD-C200

Company : Pangao Photoelectric

EUT : Night Vision Multi-purpose Device

Model Number : NVMD-C200

Report No. : CTA25090400102

Reviewed By : Eric Wang

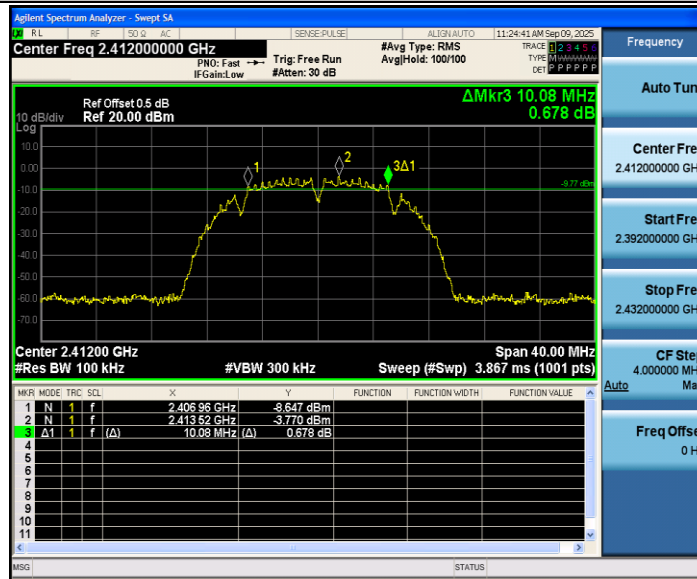
Appendix A: DTS Bandwidth

Test Result

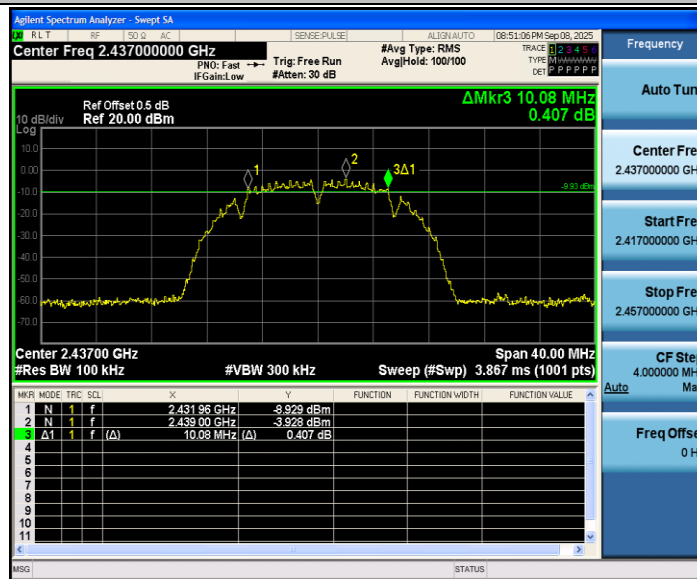
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2406.960	2417.040	0.5	PASS
		2437	10.080	2431.960	2442.040	0.5	PASS
		2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	15.120	2404.440	2419.560	0.5	PASS
		2437	15.120	2429.440	2444.560	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS
11N20SISO	Ant1	2412	15.120	2404.440	2419.560	0.5	PASS
		2437	15.080	2429.480	2444.560	0.5	PASS
		2462	15.120	2454.440	2469.560	0.5	PASS

Test Graphs

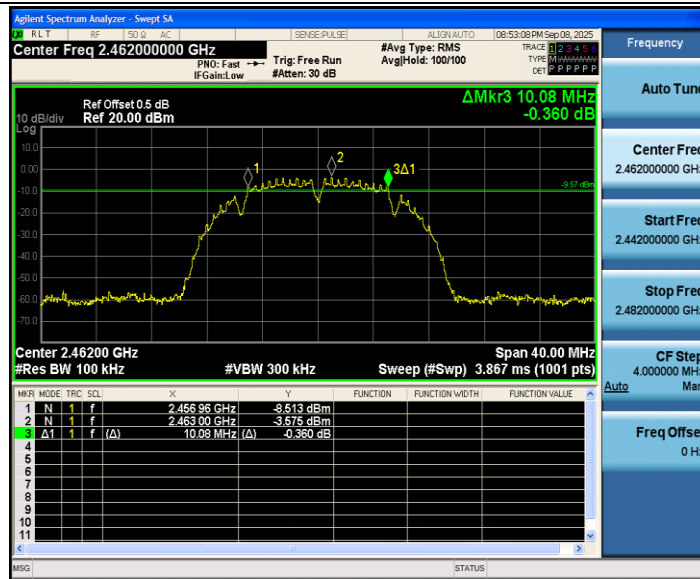
11B_Ant1_2412



11B_Ant1_2437



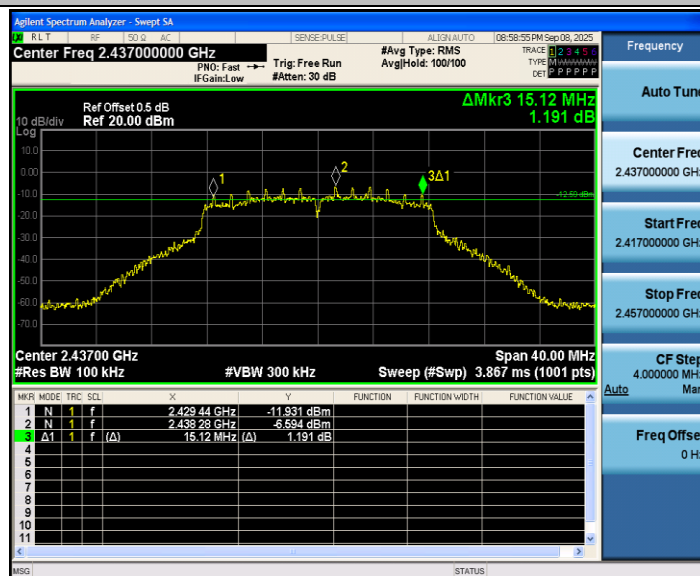
11B_Ant1_2462



11G_Ant1_2412

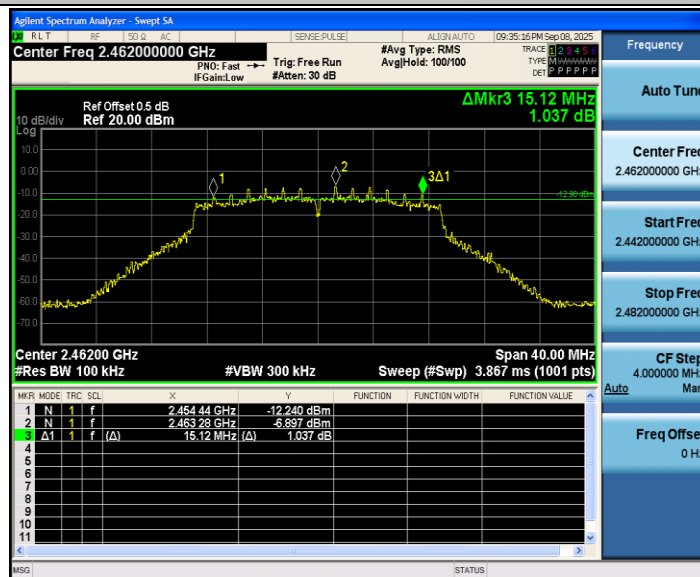


11G_Ant1_2437





11N20SISO_Ant1_2462



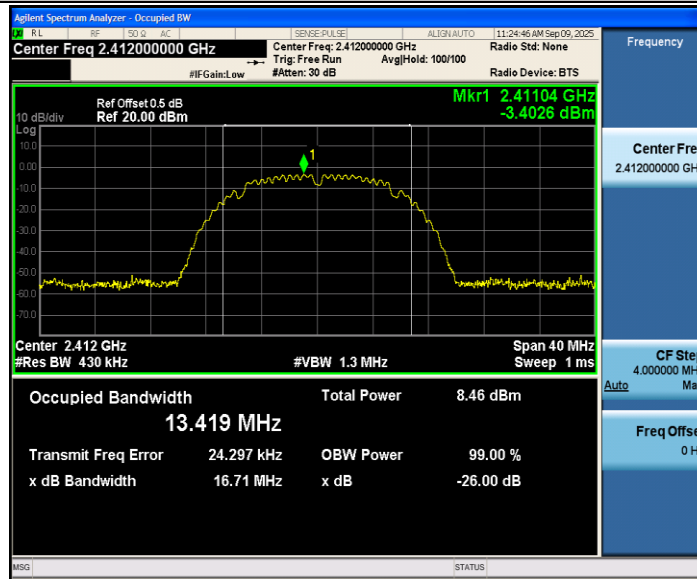
Appendix B: Occupied Channel Bandwidth

Test Result

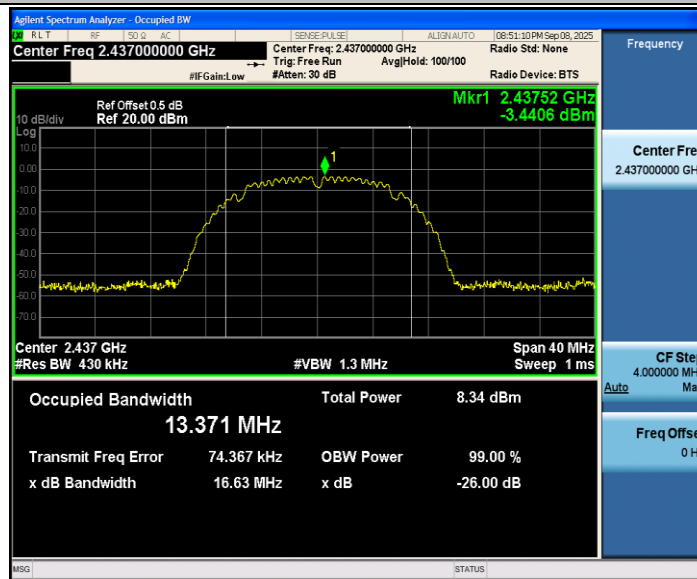
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.419	2405.3148	2418.7338	---	---
		2437	13.371	2430.3889	2443.7599	---	---
		2462	13.397	2455.2848	2468.6818	---	---
11G	Ant1	2412	16.814	2403.6273	2420.4413	---	---
		2437	16.710	2428.7496	2445.4596	---	---
		2462	16.707	2453.6510	2470.3580	---	---
11N20SISO	Ant1	2412	17.892	2403.0855	2420.9775	---	---
		2437	17.765	2428.1598	2445.9248	---	---
		2462	17.806	2453.1067	2470.9127	---	---

Test Graphs

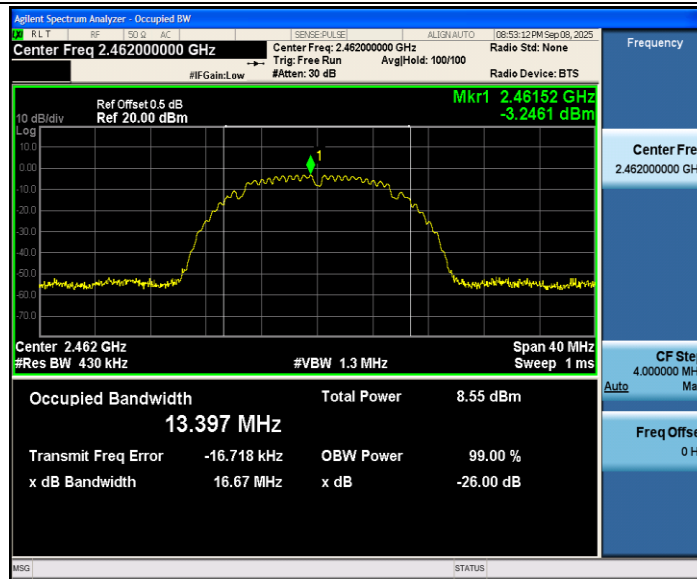
11B_Ant1_2412



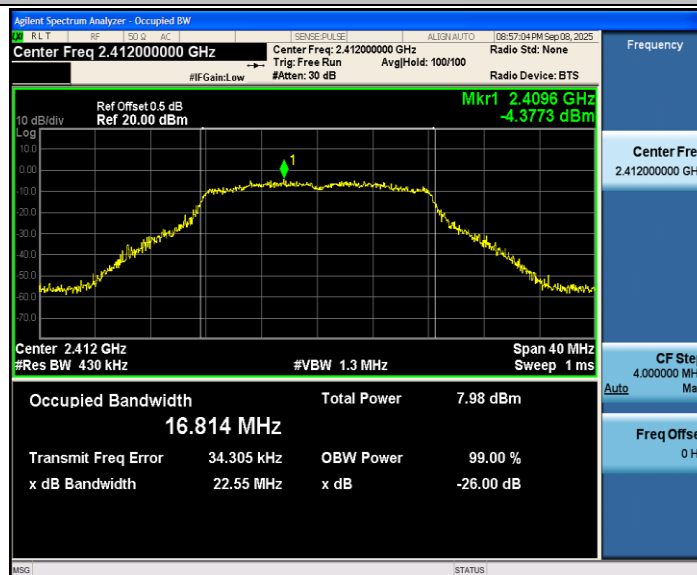
11B_Ant1_2437



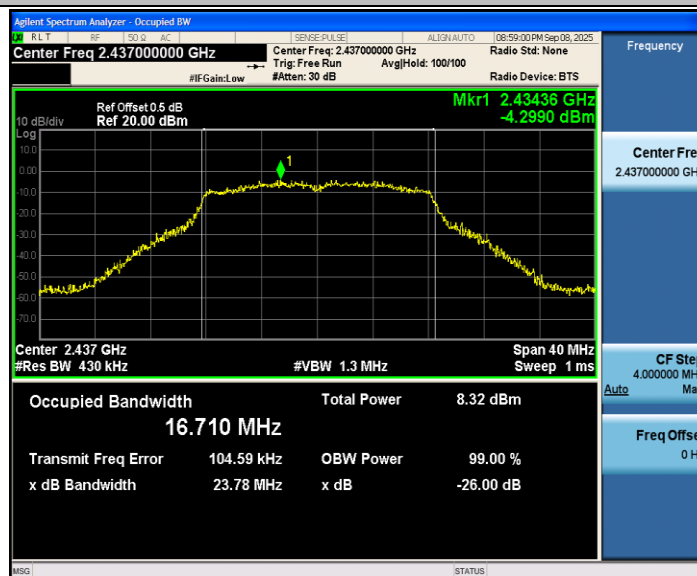
11B_Ant1_2462



11G_Ant1_2412



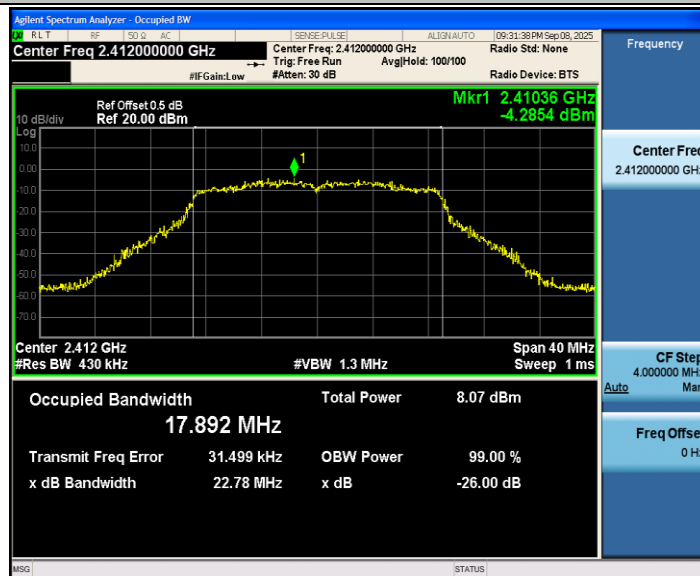
11G_Ant1_2437



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	8.24	≤30.00	PASS
		2437	8.17	≤30.00	PASS
		2462	8.32	≤30.00	PASS
11G	Ant1	2412	8.49	≤30.00	PASS
		2437	8.82	≤30.00	PASS
		2462	9.03	≤30.00	PASS
11N20SISO	Ant1	2412	8.40	≤30.00	PASS
		2437	8.42	≤30.00	PASS
		2462	8.28	≤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	-18.33	≤8.00	PASS
		2437	-17.52	≤8.00	PASS
		2462	-17.95	≤8.00	PASS
11G	Ant1	2412	-22.44	≤8.00	PASS
		2437	-22.04	≤8.00	PASS
		2462	-21.92	≤8.00	PASS
11N20SISO	Ant1	2412	-20.00	≤8.00	PASS
		2437	-22.22	≤8.00	PASS
		2462	-21.72	≤8.00	PASS

Test Graphs

11B_Ant1_2412



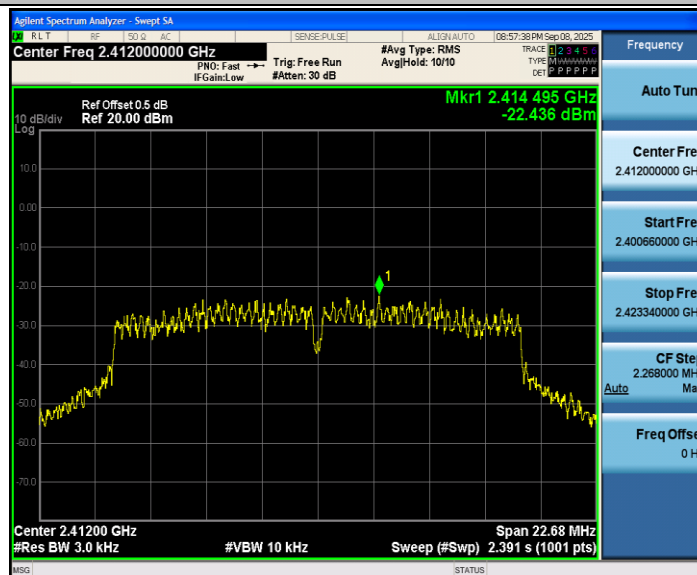
11B_Ant1_2437



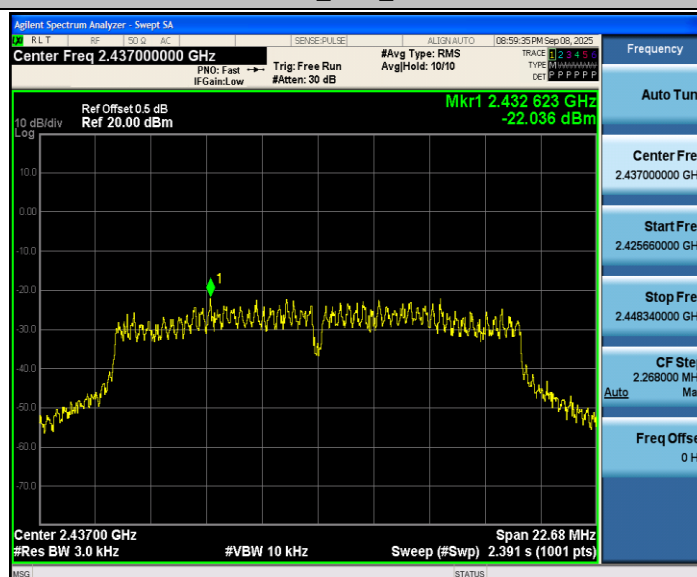
11B_Ant1_2462



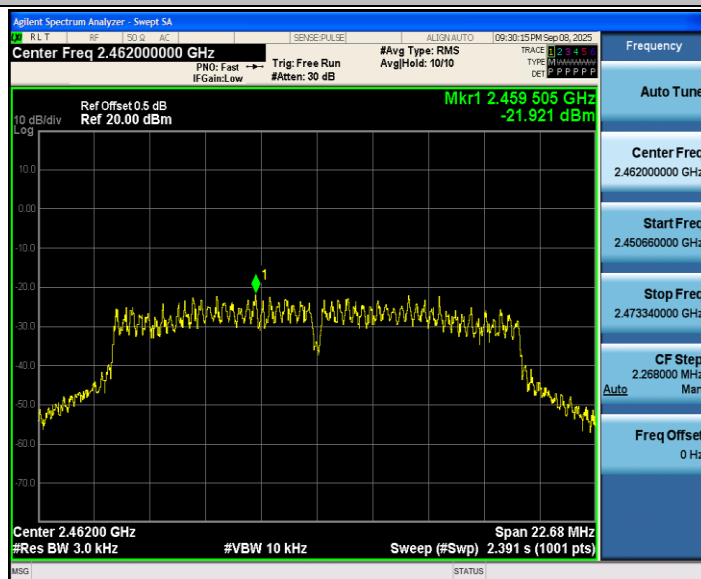
11G_Ant1_2412



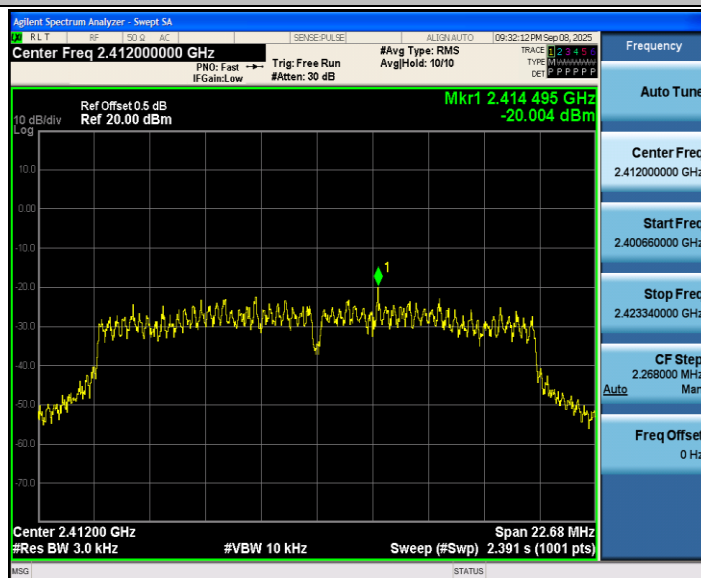
11G_Ant1_2437



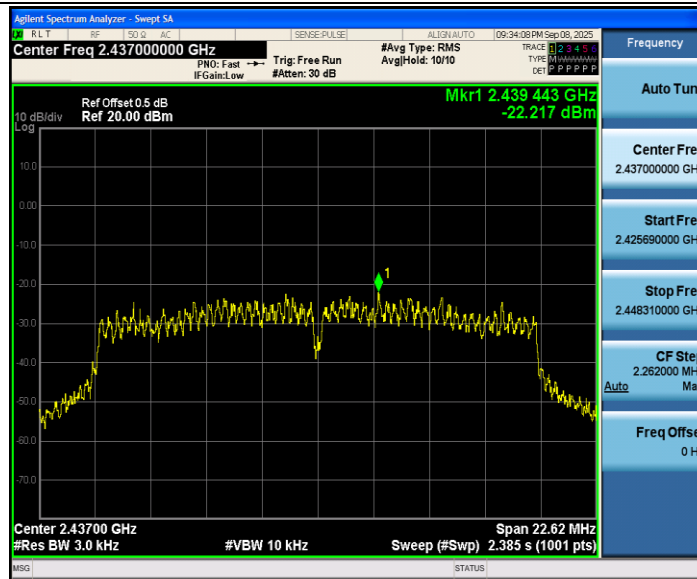
11G_Ant1_2462



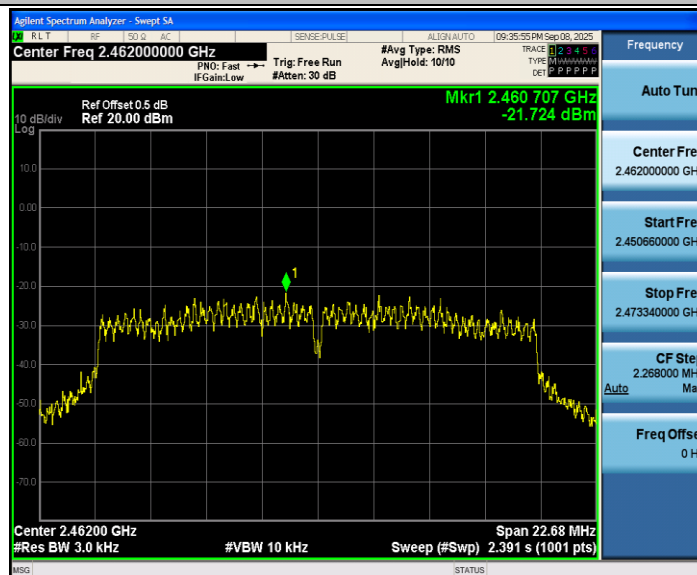
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

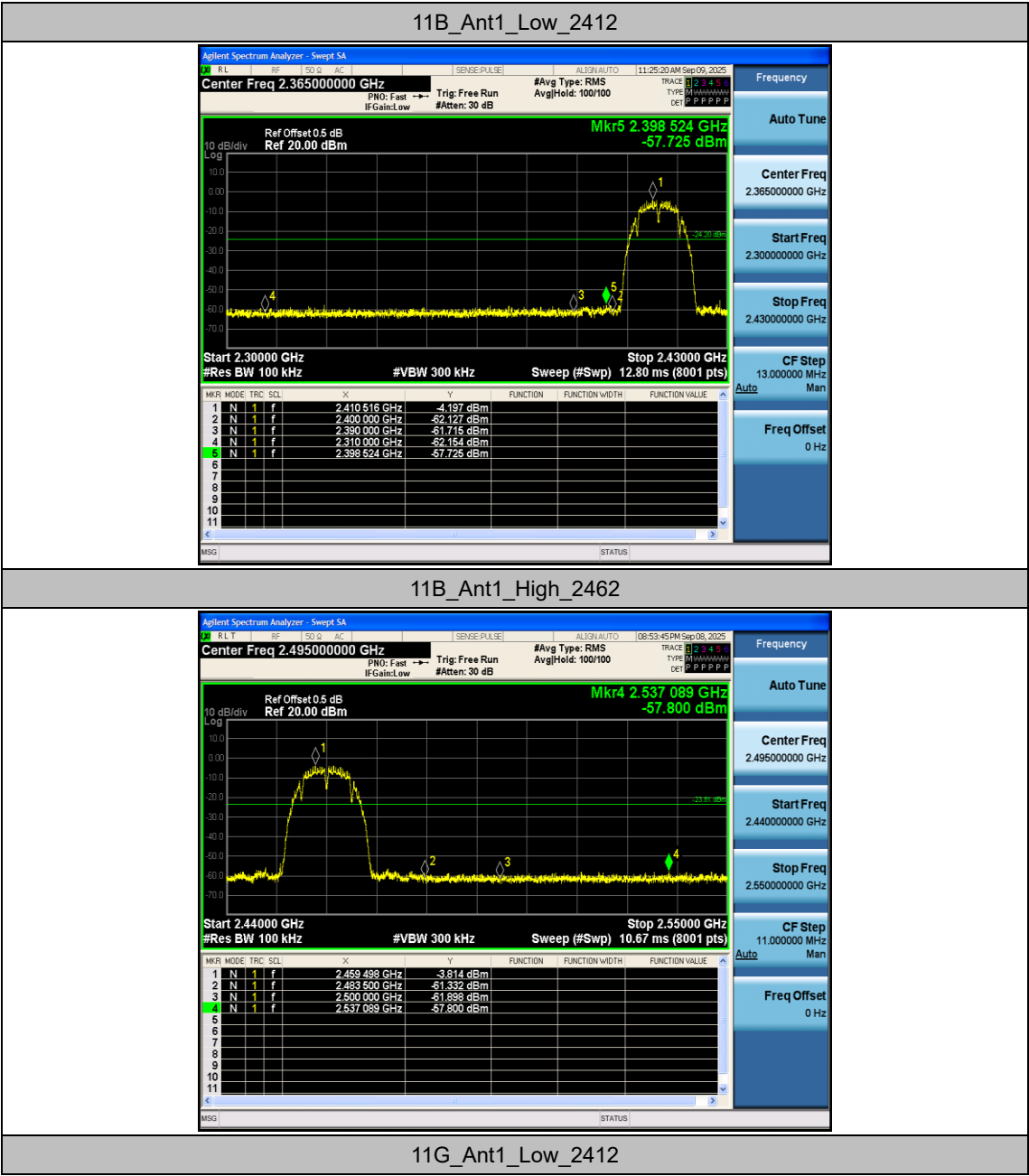


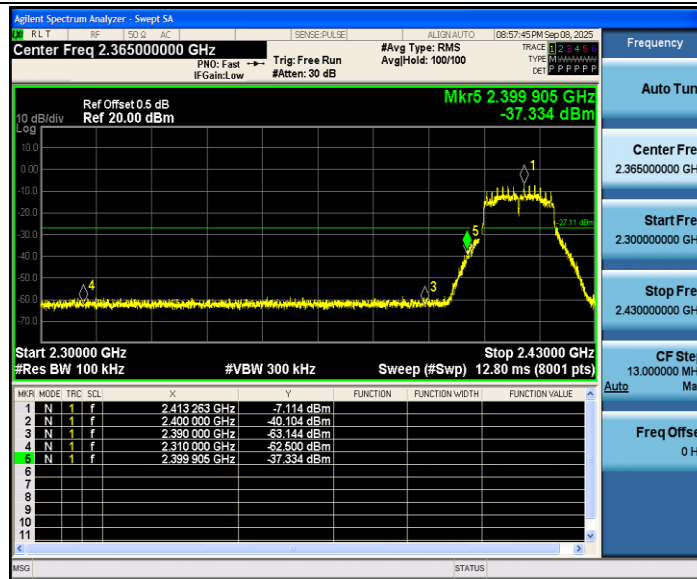
Appendix E: Band edge measurements

Test Result

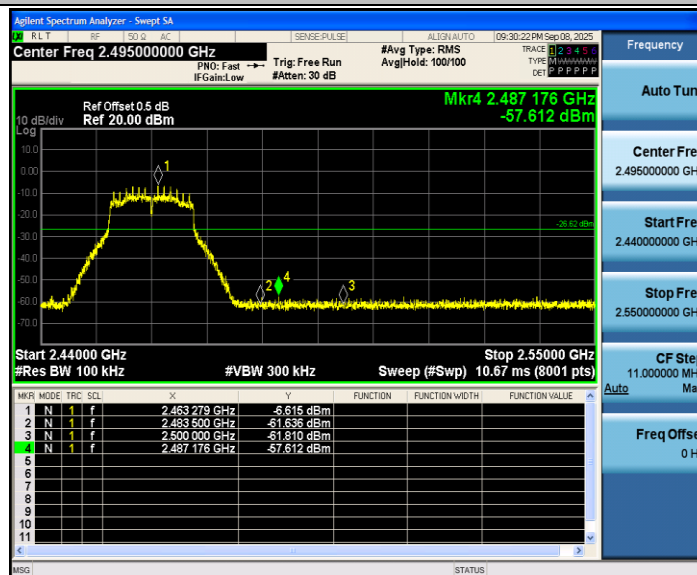
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-4.20	-57.73	≤-24.2	PASS
		High	2462	-3.81	-57.8	≤-23.81	PASS
11G	Ant1	Low	2412	-7.11	-37.33	≤-27.11	PASS
		High	2462	-6.62	-57.61	≤-26.62	PASS
11N20SISO	Ant1	Low	2412	-7.11	-38.41	≤-27.11	PASS
		High	2462	-7.10	-58.38	≤-27.1	PASS

Test Graphs

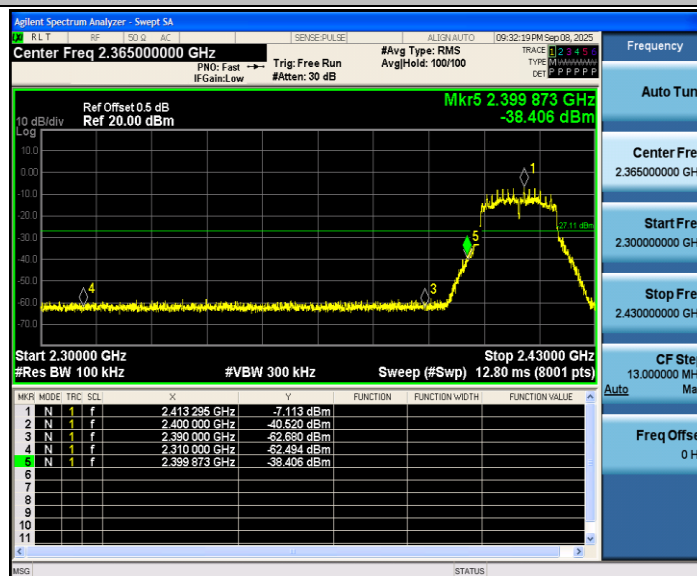




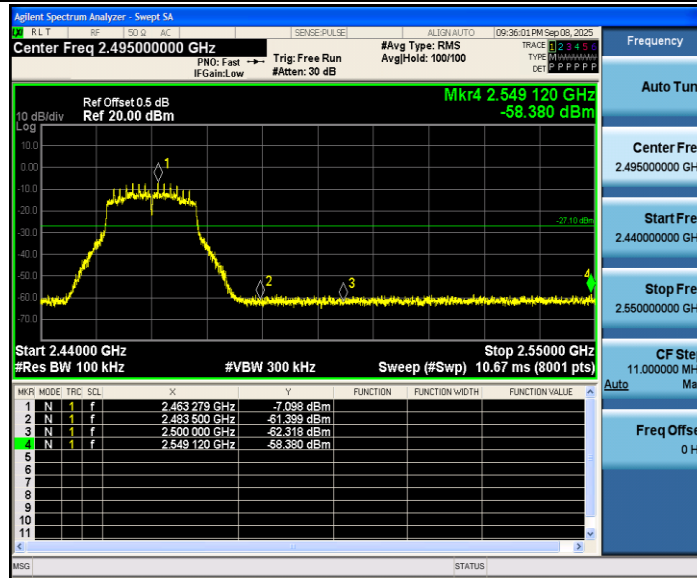
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

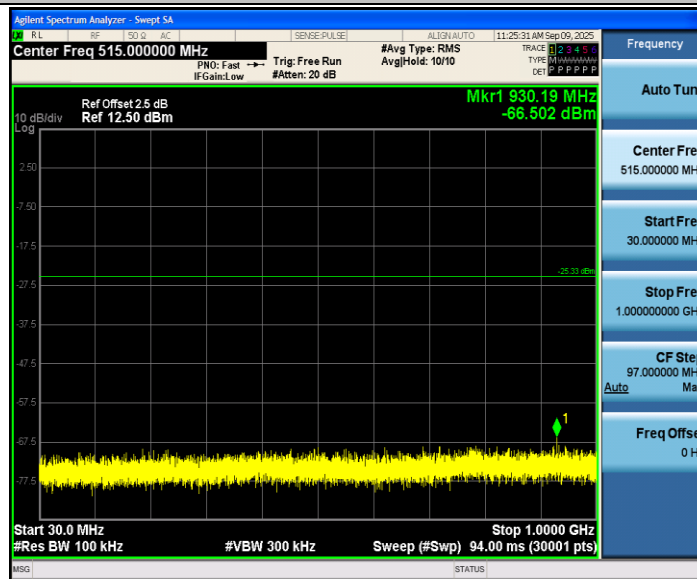
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-5.33	-5.33	---	PASS
			30~1000	-5.33	-66.5	≤-25.33	PASS
			1000~26500	-5.33	-54.96	≤-25.33	PASS
		2437	Reference	-4.26	-4.26	---	PASS
			30~1000	-4.26	-67.53	≤-24.26	PASS
			1000~26500	-4.26	-54.93	≤-24.26	PASS
		2462	Reference	-4.05	-4.05	---	PASS
			30~1000	-4.05	-67.52	≤-24.05	PASS
			1000~26500	-4.05	-55.44	≤-24.05	PASS
11G	Ant1	2412	Reference	-7.24	-7.24	---	PASS
			30~1000	-7.24	-68	≤-27.24	PASS
			1000~26500	-7.24	-54.63	≤-27.24	PASS
		2437	Reference	-6.56	-6.56	---	PASS
			30~1000	-6.56	-68.23	≤-26.56	PASS
			1000~26500	-6.56	-54.78	≤-26.56	PASS
		2462	Reference	-7.04	-7.04	---	PASS
			30~1000	-7.04	-67.91	≤-27.04	PASS
			1000~26500	-7.04	-54.78	≤-27.04	PASS
11N20SISO	Ant1	2412	Reference	-6.91	-6.91	---	PASS
			30~1000	-6.91	-67.89	≤-26.91	PASS
			1000~26500	-6.91	-54.8	≤-26.91	PASS
		2437	Reference	-7.51	-7.51	---	PASS
			30~1000	-7.51	-67.01	≤-27.51	PASS
			1000~26500	-7.51	-53.81	≤-27.51	PASS
		2462	Reference	-7.51	-7.51	---	PASS
			30~1000	-7.51	-67.97	≤-27.51	PASS
			1000~26500	-7.51	-54.91	≤-27.51	PASS

Test Graphs

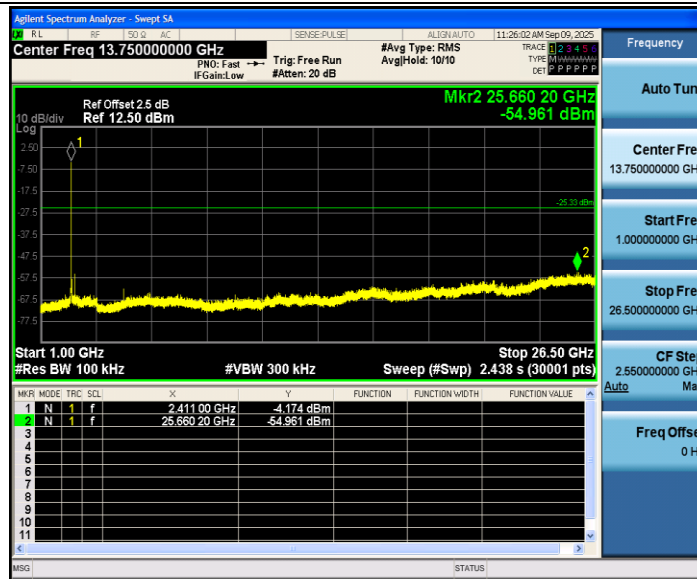
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



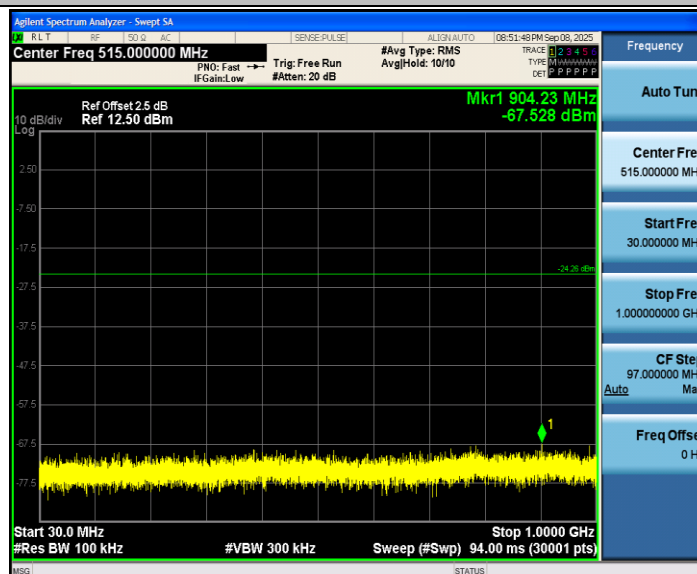
11B_Ant1_2412_1000~26500



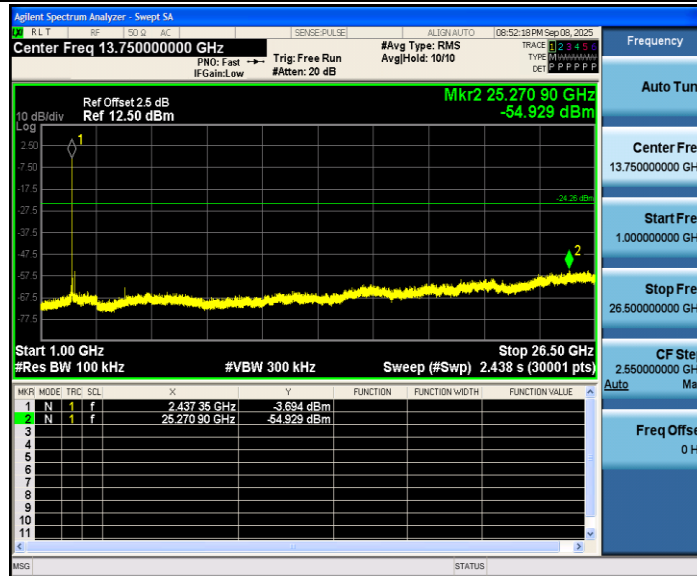
11B_Ant1_2437_0~Reference



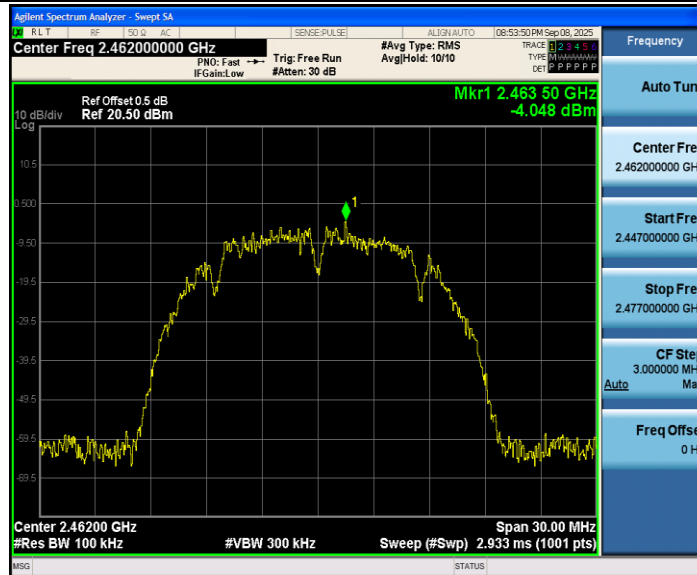
11B_Ant1_2437_30~1000



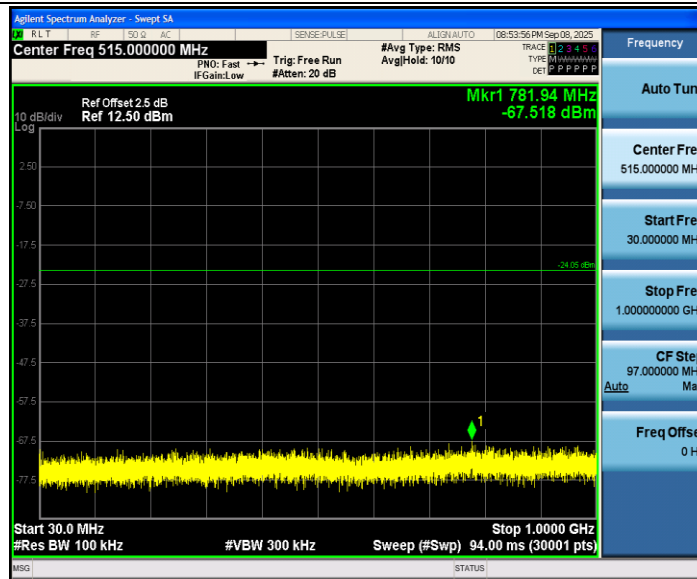
11B_Ant1_2437_1000~26500



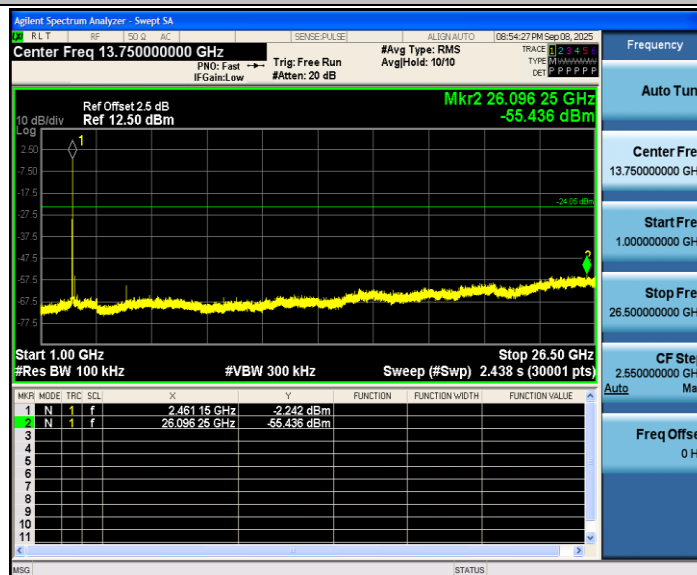
11B_Ant1_2462_0~Reference



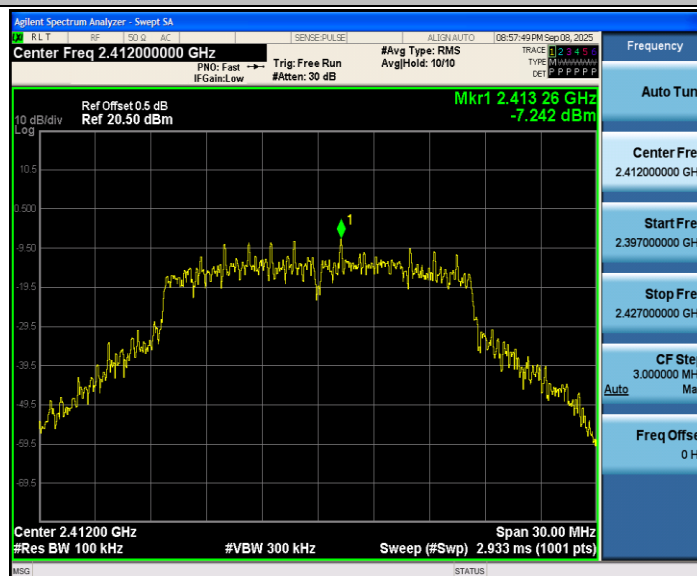
11B_Ant1_2462_30~1000



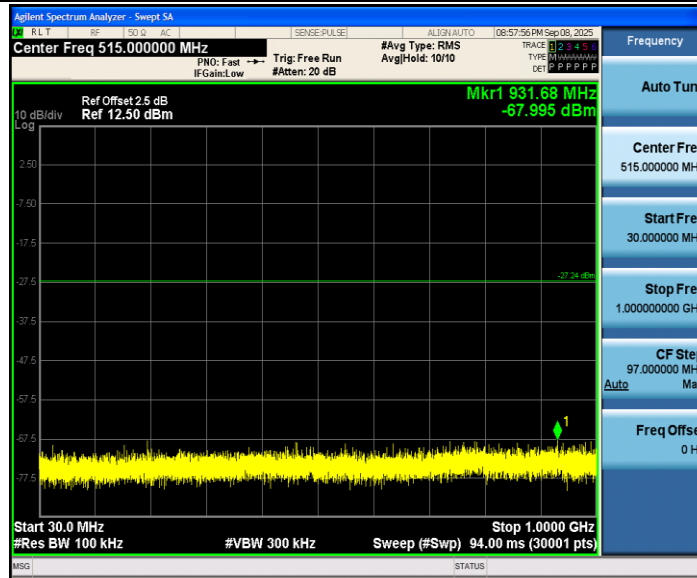
11B_Ant1_2462_1000~26500



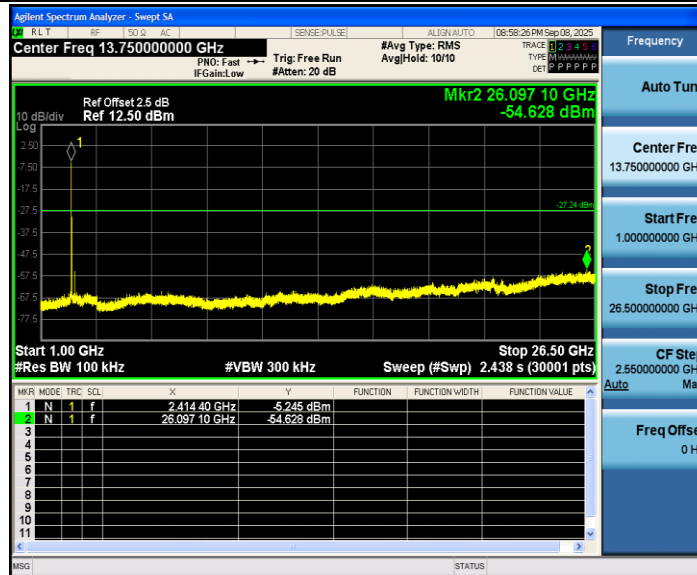
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



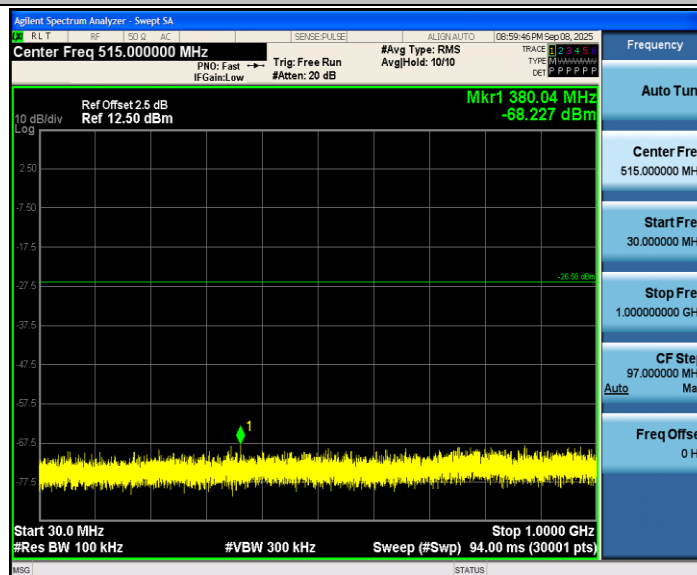
11G_Ant1_2412_1000~26500



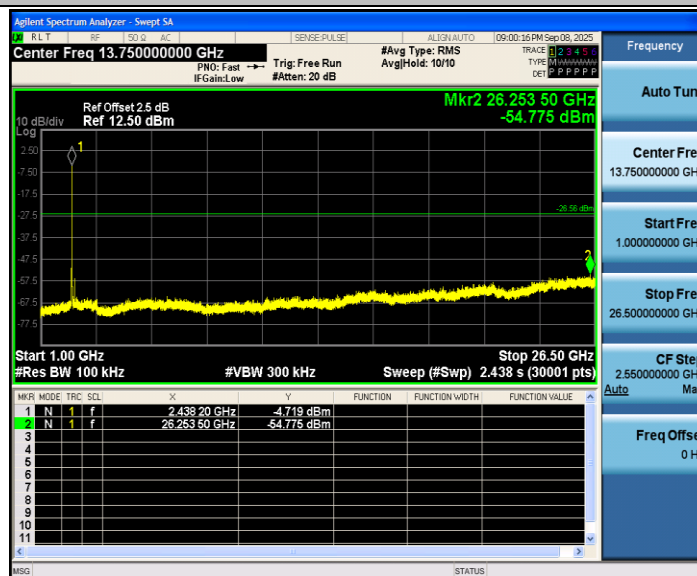
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



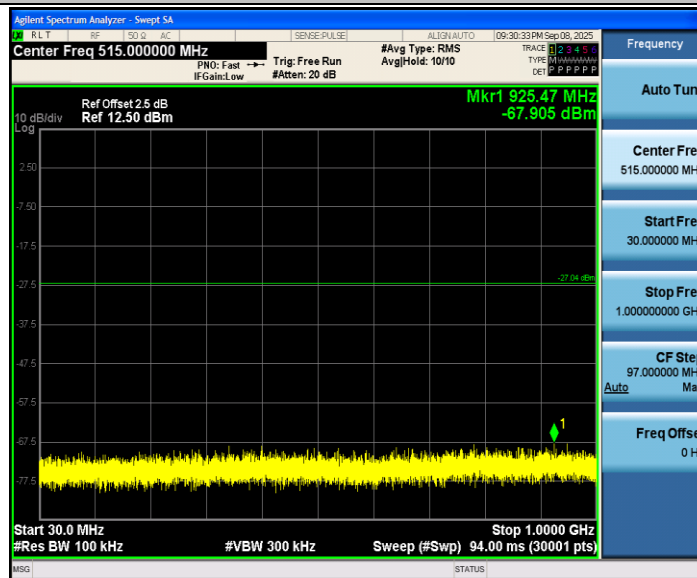
11G_Ant1_2437_1000~26500



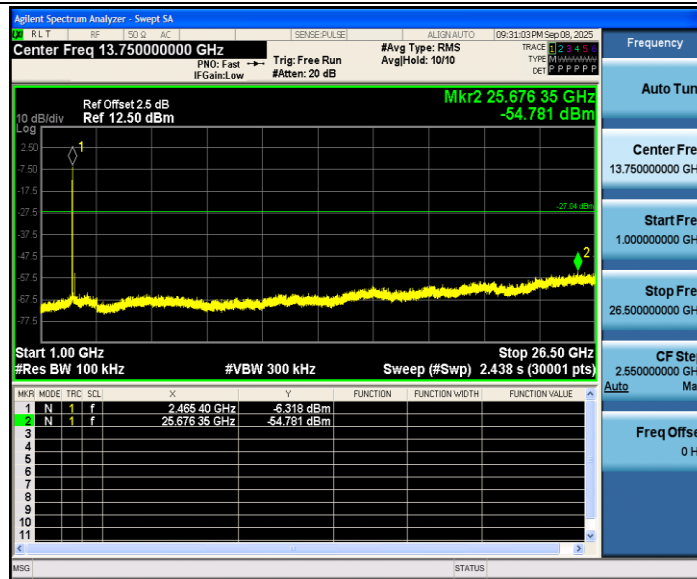
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



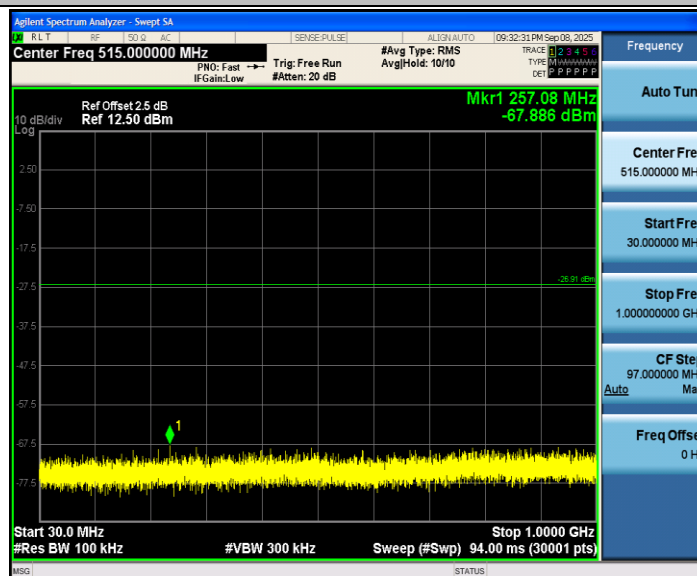
11G_Ant1_2462_1000~26500



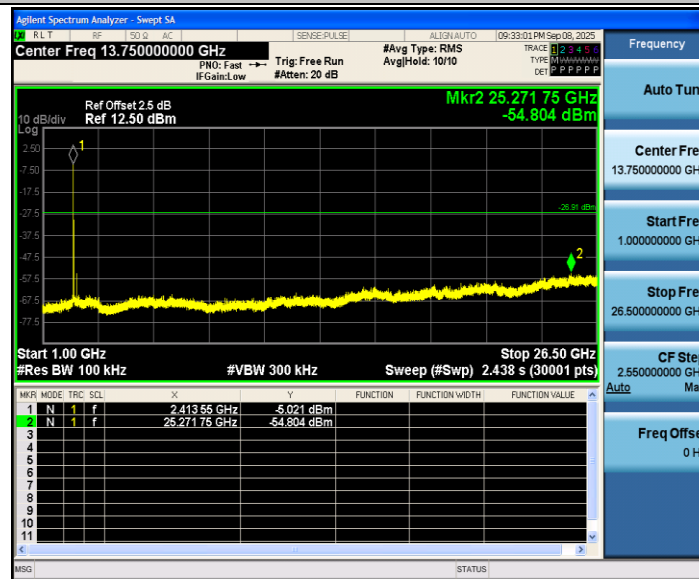
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



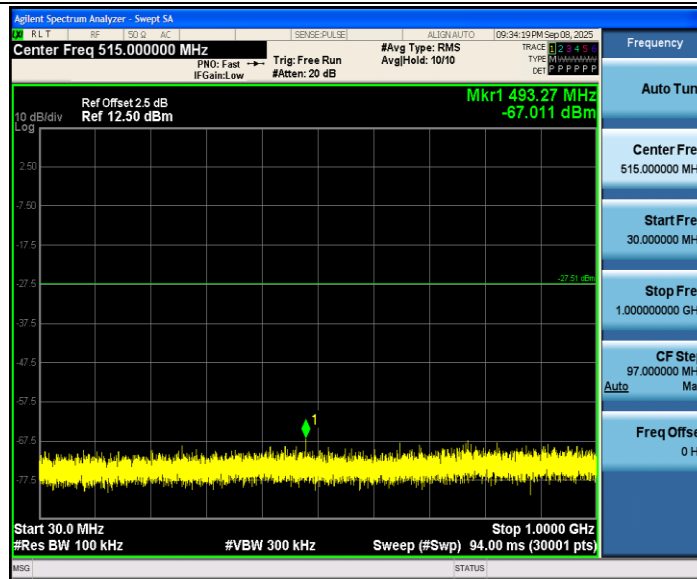
11N20SISO_Ant1_2412_1000~26500



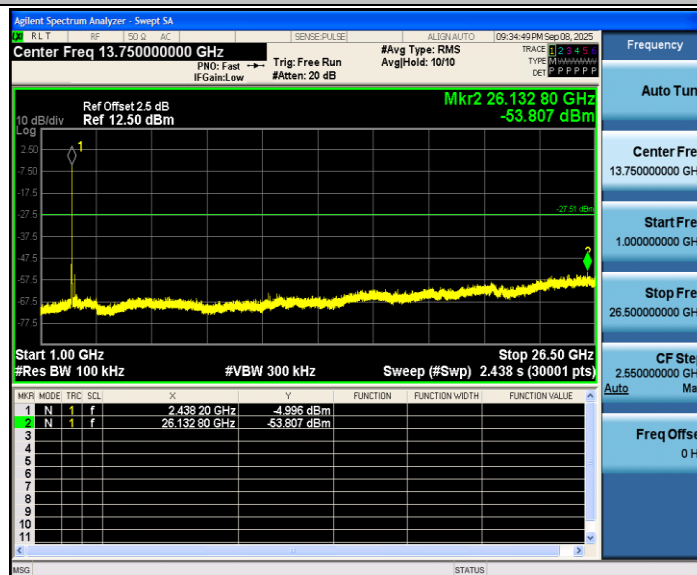
11N20SISO_Ant1_2437_0~Reference



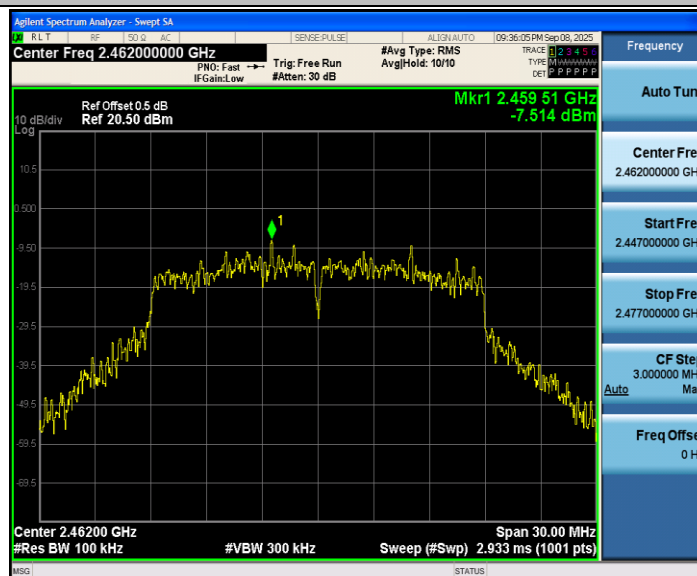
11N20SISO_Ant1_2437_30~1000



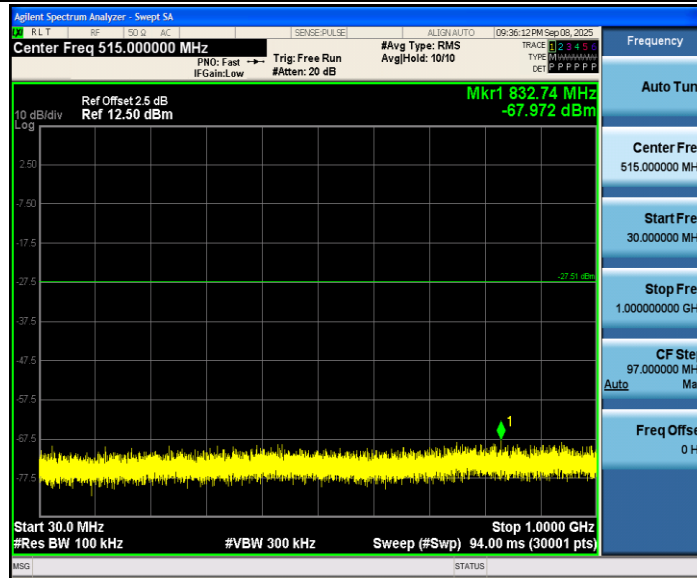
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500

