

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BTWY-D1

Company : Yunjie Zhiyan (Shenzhen) Technology Co., Ltd.

EUT : Video intercom

Model Number : D1

Report No. : CTA25121801201

Reviewed By : Eric Wang

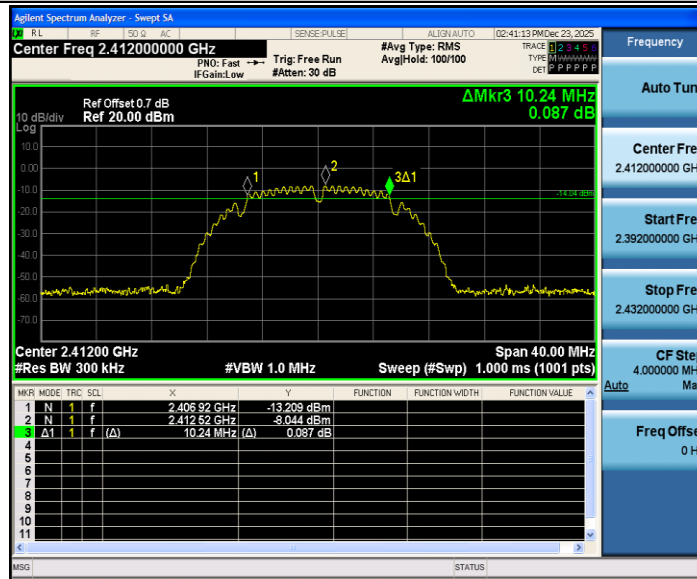
Appendix A: DTS Bandwidth

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	15.840	2404.200	2420.040	0.5	PASS
		2437	16.160	2428.960	2445.120	0.5	PASS
		2462	15.960	2453.960	2469.920	0.5	PASS
11N20SISO	Ant1	2412	17.360	2403.280	2420.640	0.5	PASS
		2437	17.360	2428.440	2445.800	0.5	PASS
		2462	17.160	2453.480	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



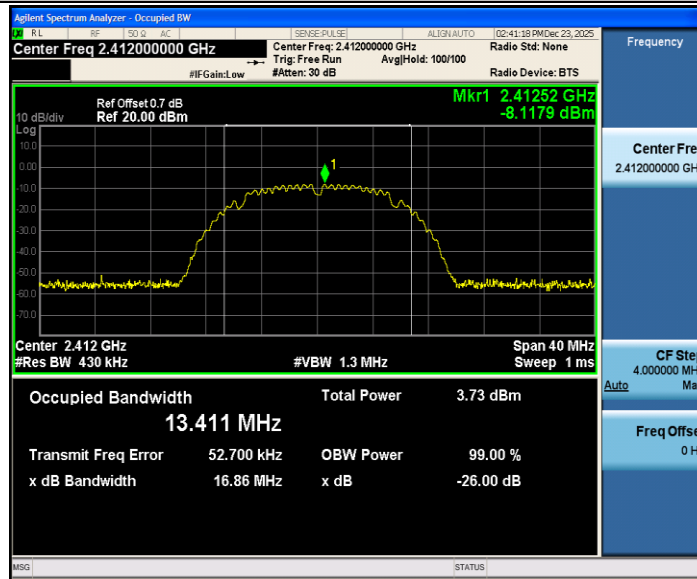
Appendix B: Occupied Channel Bandwidth

Test Result

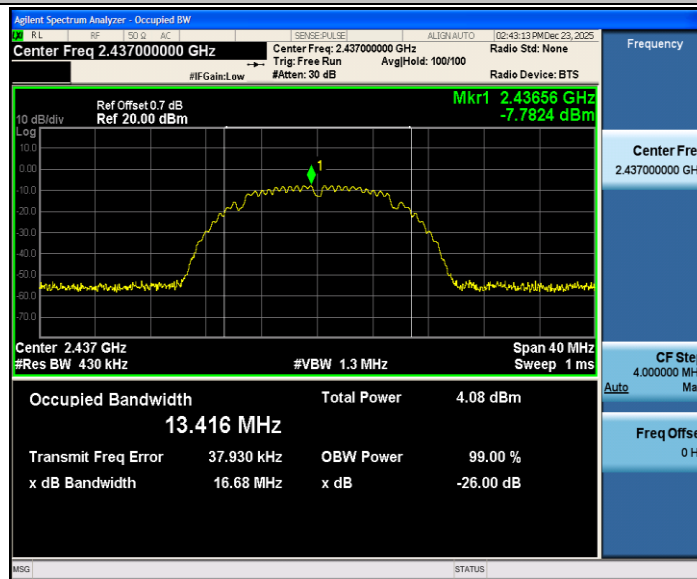
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.411	2405.3472	2418.7582	---	---
		2437	13.416	2430.3299	2443.7459	---	---
		2462	13.418	2455.3133	2468.7313	---	---
11G	Ant1	2412	16.767	2403.6877	2420.4547	---	---
		2437	16.770	2428.6590	2445.4290	---	---
		2462	16.822	2453.6182	2470.4402	---	---
11N20SISO	Ant1	2412	17.776	2403.1344	2420.9104	---	---
		2437	17.801	2428.1401	2445.9411	---	---
		2462	17.806	2453.1181	2470.9241	---	---

Test Graphs

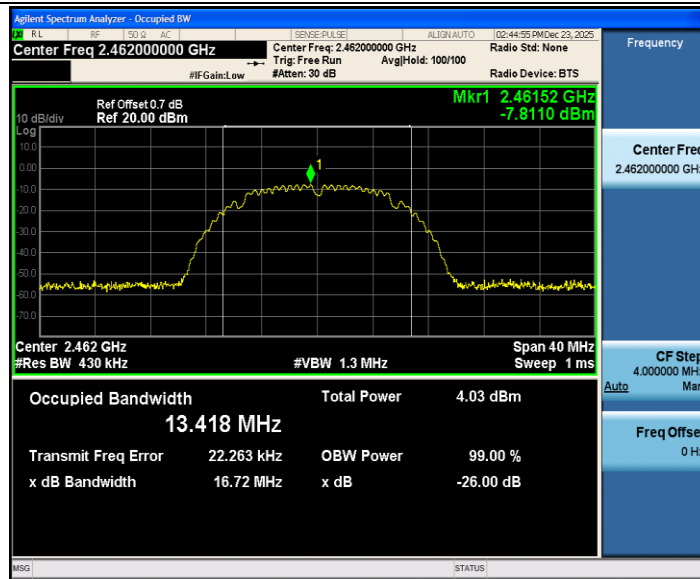
11B_Ant1_2412



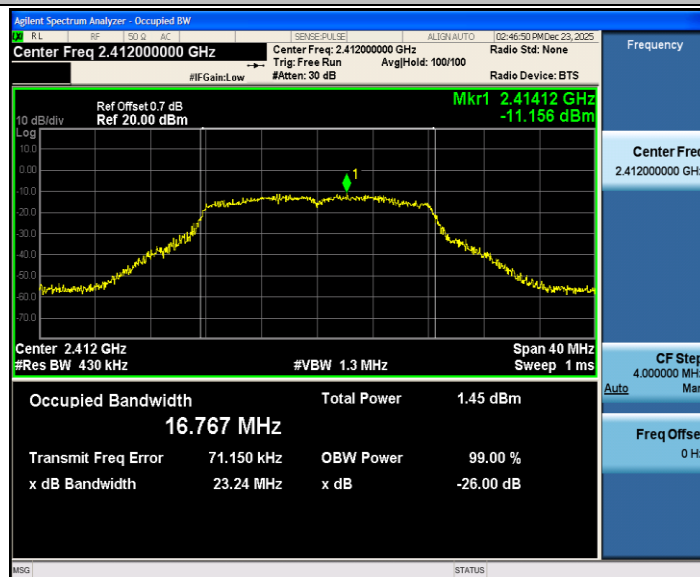
11B_Ant1_2437



11B_Ant1_2462



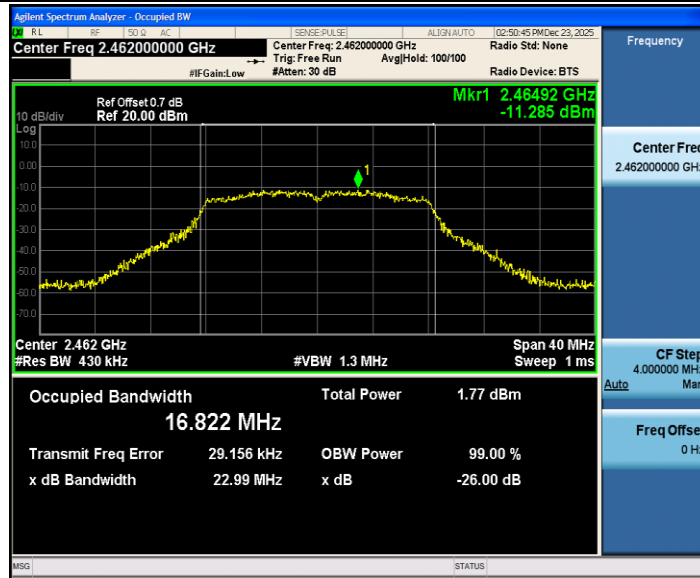
11G_Ant1_2412



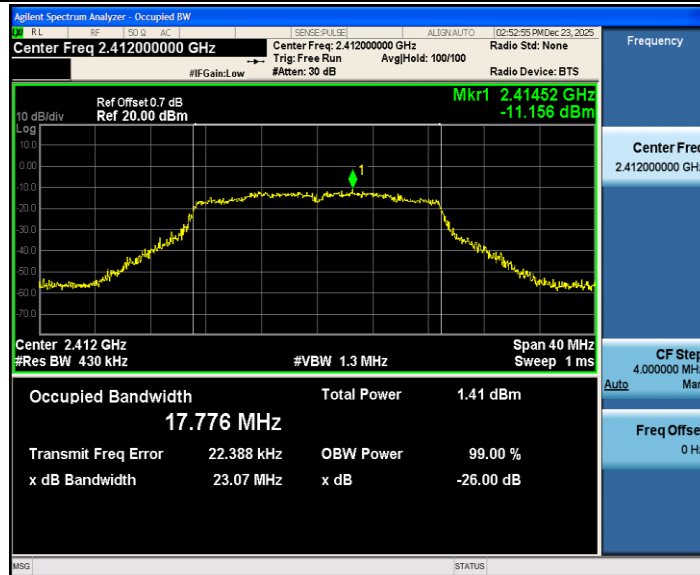
11G_Ant1_2437



11G_Ant1_2462



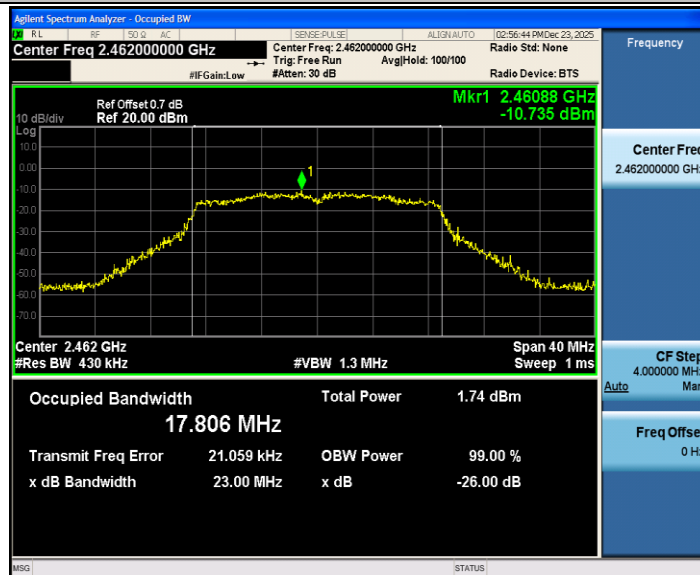
11N20SISO_Ant1_2412



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	3.59	≤30.00	PASS
		2437	3.96	≤30.00	PASS
		2462	3.88	≤30.00	PASS
11G	Ant1	2412	2.18	≤30.00	PASS
		2437	2.45	≤30.00	PASS
		2462	2.42	≤30.00	PASS
11N20SISO	Ant1	2412	2.09	≤30.00	PASS
		2437	2.39	≤30.00	PASS
		2462	2.32	≤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	-22.49	≤8.00	PASS
		2437	-21.21	≤8.00	PASS
		2462	-22.52	≤8.00	PASS
11G	Ant1	2412	-28.71	≤8.00	PASS
		2437	-27.81	≤8.00	PASS
		2462	-28.08	≤8.00	PASS
11N20SISO	Ant1	2412	-28.26	≤8.00	PASS
		2437	-29.07	≤8.00	PASS
		2462	-28.11	≤8.00	PASS

Test Graphs

11B_Ant1_2412



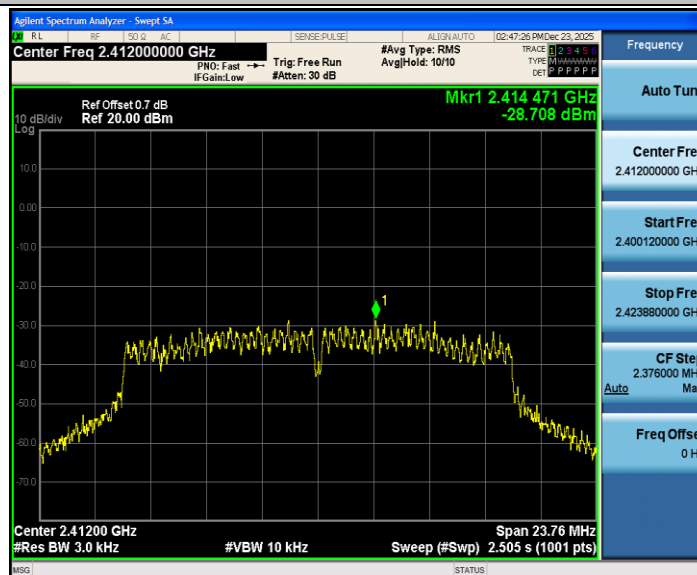
11B_Ant1_2437



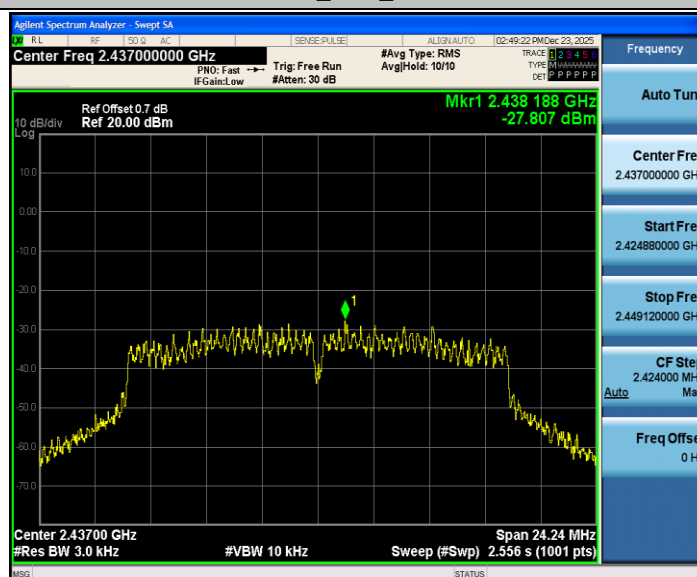
11B_Ant1_2462



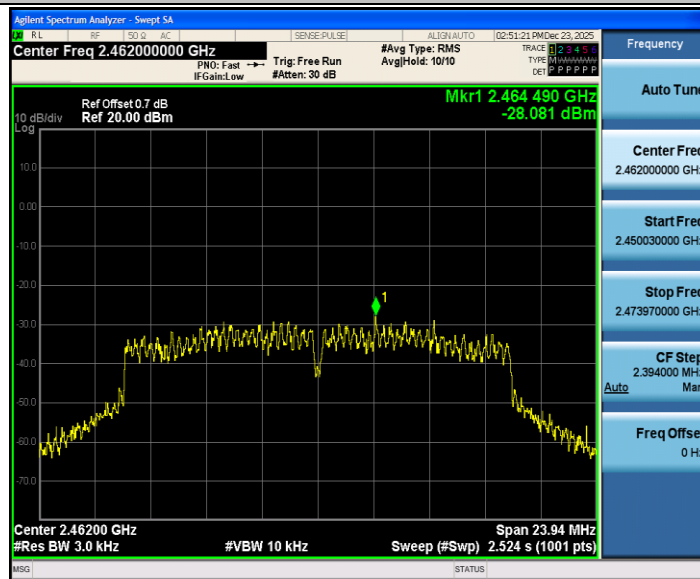
11G_Ant1_2412



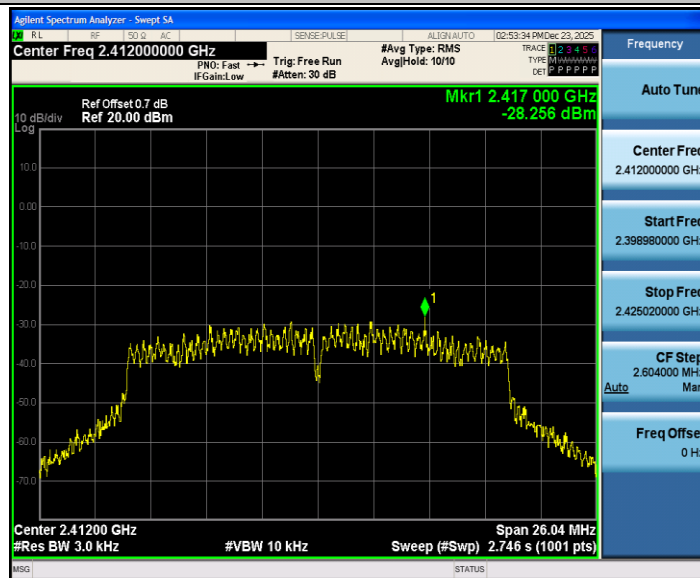
11G_Ant1_2437



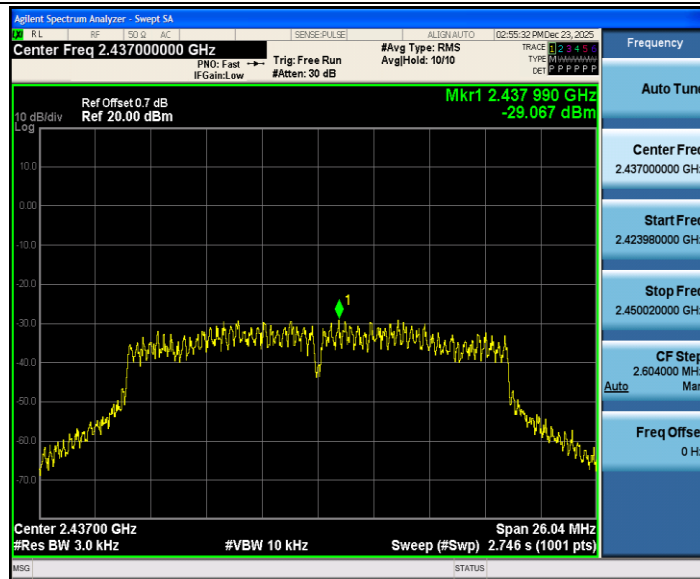
11G_Ant1_2462



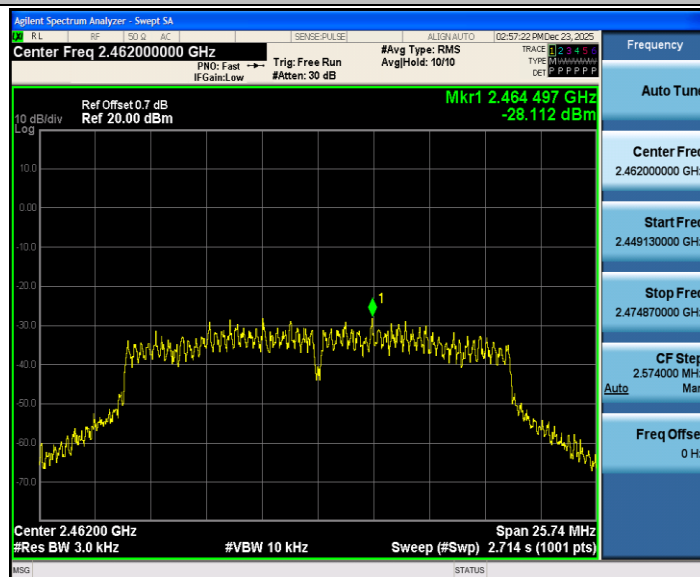
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



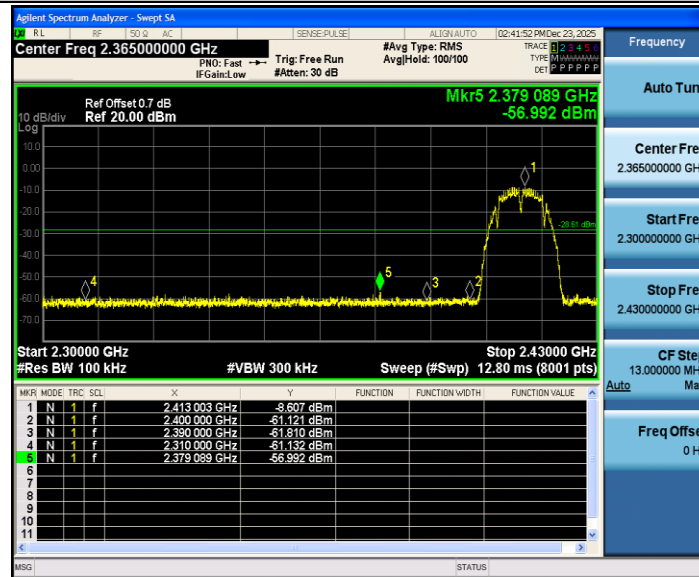
Appendix E: Band edge measurements

Test Result

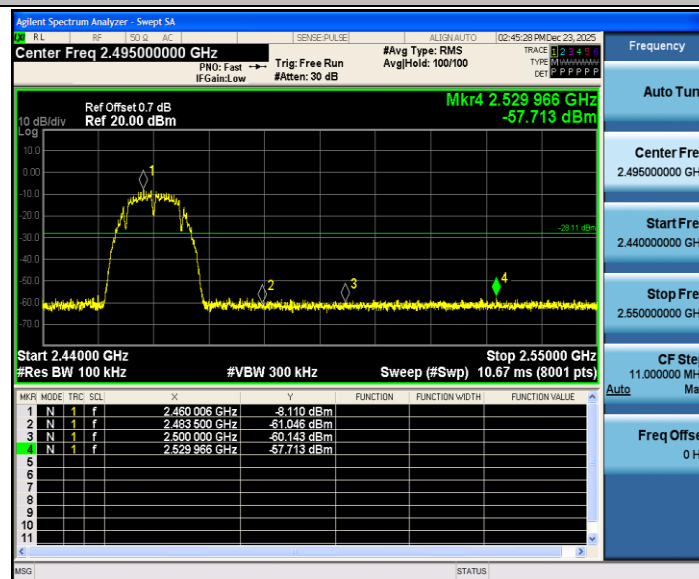
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-8.61	-56.99	≤-28.61	PASS
		High	2462	-8.11	-57.71	≤-28.11	PASS
11G	Ant1	Low	2412	-13.50	-44.93	≤-33.5	PASS
		High	2462	-13.32	-57.42	≤-33.32	PASS
11N20SISO	Ant1	Low	2412	-13.54	-45.48	≤-33.54	PASS
		High	2462	-13.21	-57.2	≤-33.21	PASS

Test Graphs

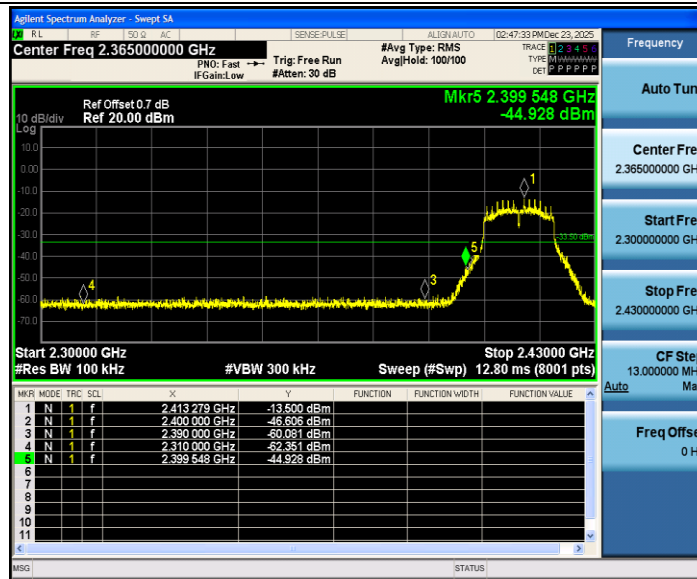
11B_Ant1_Low_2412



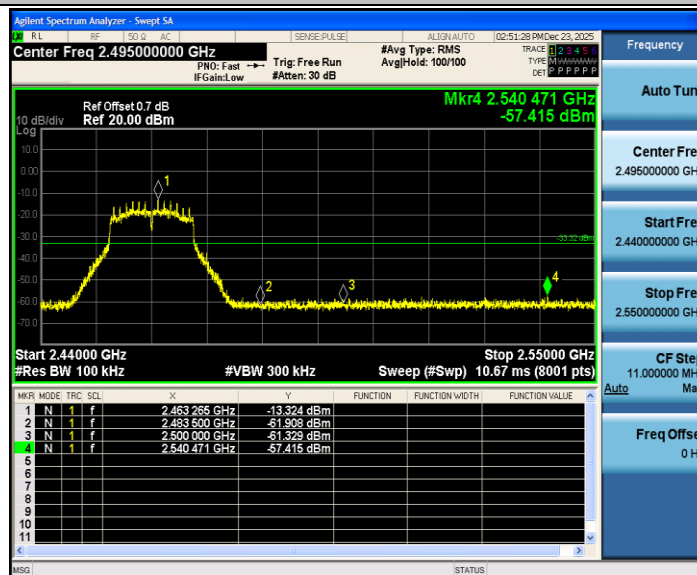
11B_Ant1_High_2462



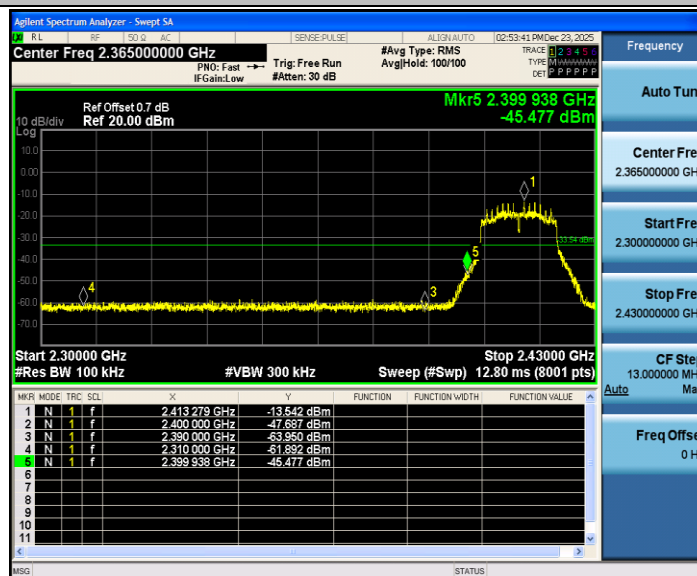
11G_Ant1_Low_2412



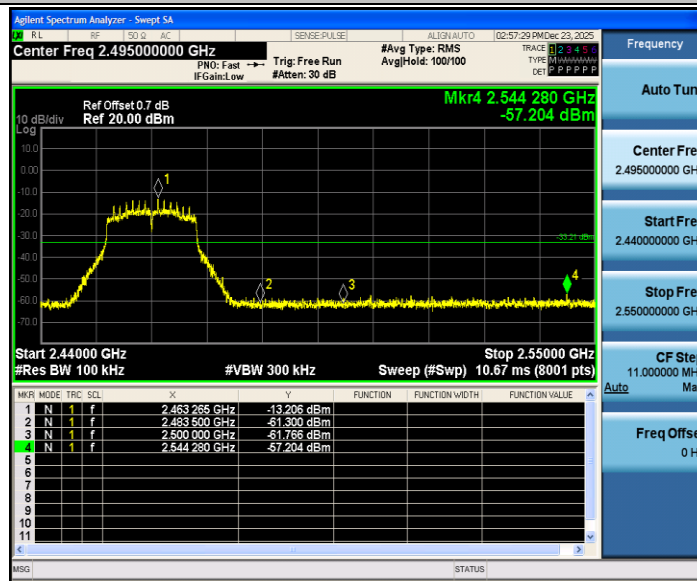
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



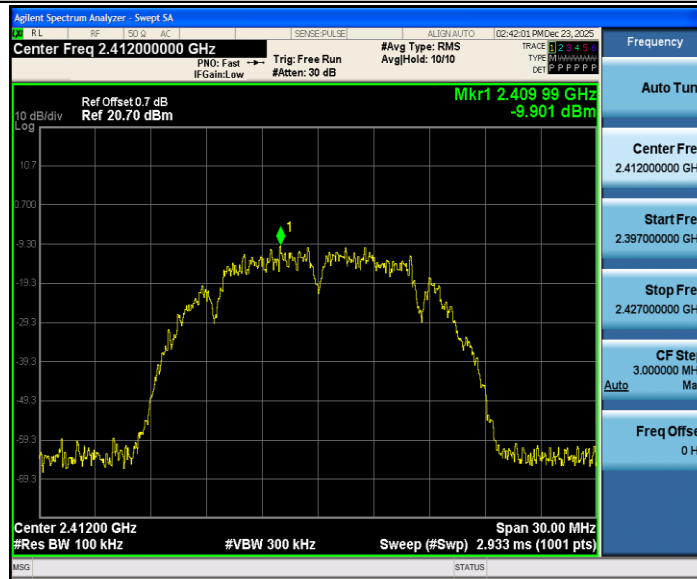
Appendix F: Conducted Spurious Emission

Test Result

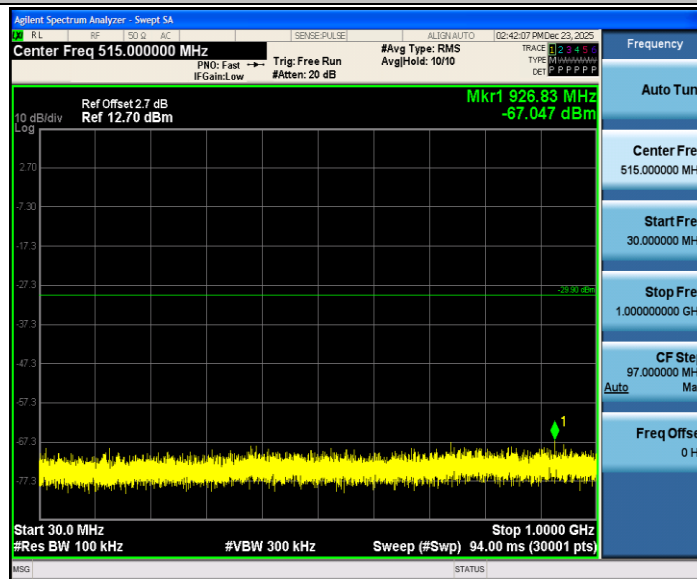
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-9.90	-9.90	---	PASS
			30~1000	-9.90	-67.05	≤-29.9	PASS
			1000~26500	-9.90	-55.34	≤-29.9	PASS
		2437	Reference	-8.53	-8.53	---	PASS
			30~1000	-8.53	-66.99	≤-28.53	PASS
			1000~26500	-8.53	-53.37	≤-28.53	PASS
		2462	Reference	-9.04	-9.04	---	PASS
			30~1000	-9.04	-68.26	≤-29.04	PASS
			1000~26500	-9.04	-55.09	≤-29.04	PASS
11G	Ant1	2412	Reference	-14.31	-14.31	---	PASS
			30~1000	-14.31	-67.24	≤-34.31	PASS
			1000~26500	-14.31	-54.11	≤-34.31	PASS
		2437	Reference	-13.30	-13.30	---	PASS
			30~1000	-13.30	-63.61	≤-33.3	PASS
			1000~26500	-13.30	-54.94	≤-33.3	PASS
		2462	Reference	-13.87	-13.87	---	PASS
			30~1000	-13.87	-66.86	≤-33.87	PASS
			1000~26500	-13.87	-54.8	≤-33.87	PASS
11N20SISO	Ant1	2412	Reference	-13.71	-13.71	---	PASS
			30~1000	-13.71	-67	≤-33.71	PASS
			1000~26500	-13.71	-53.95	≤-33.71	PASS
		2437	Reference	-14.23	-14.23	---	PASS
			30~1000	-14.23	-67.15	≤-34.23	PASS
			1000~26500	-14.23	-54.35	≤-34.23	PASS
		2462	Reference	-13.32	-13.32	---	PASS
			30~1000	-13.32	-66.94	≤-33.32	PASS
			1000~26500	-13.32	-54.27	≤-33.32	PASS

Test Graphs

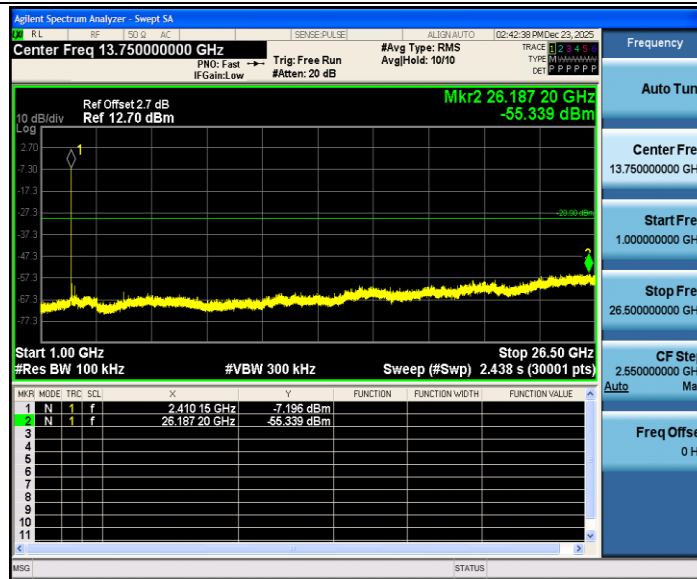
11B_Ant1_2412_0~Reference



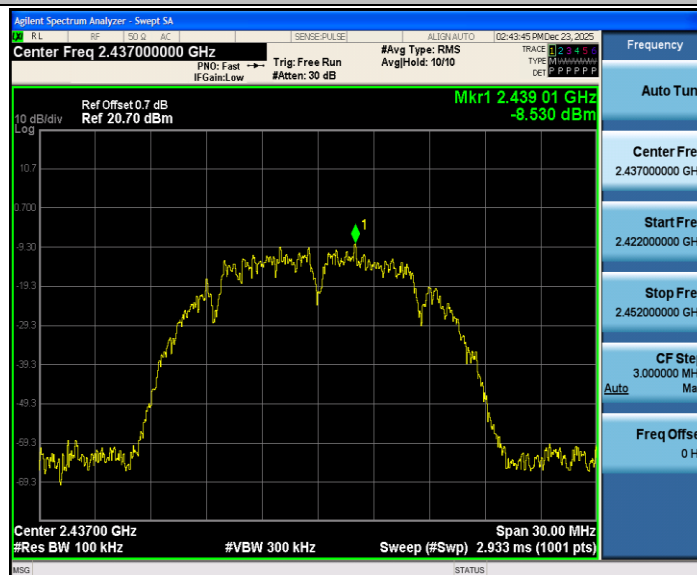
11B_Ant1_2412_30~1000



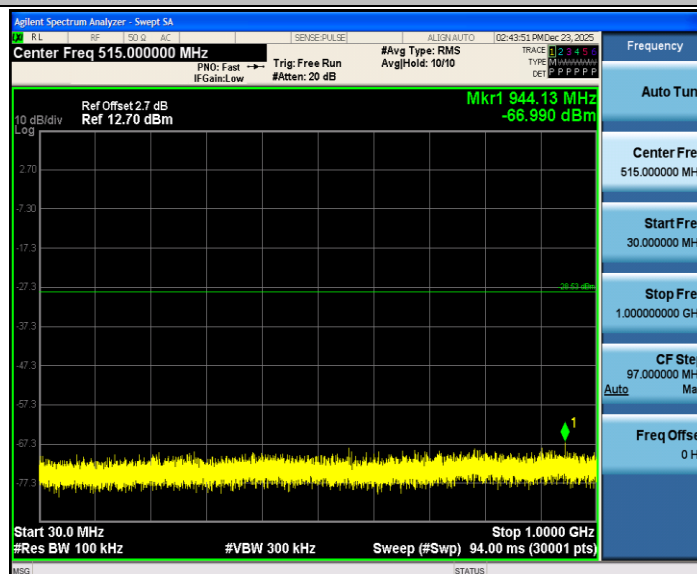
11B_Ant1_2412_1000~26500



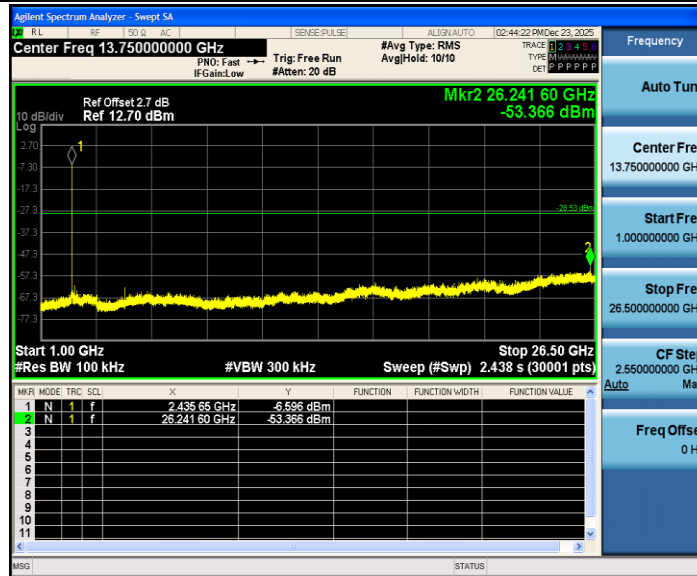
11B_Ant1_2437_0~Reference



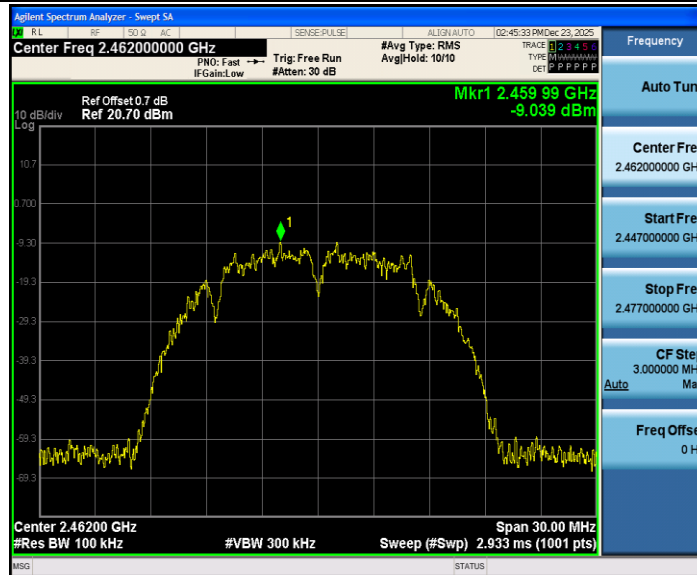
11B_Ant1_2437_30~1000



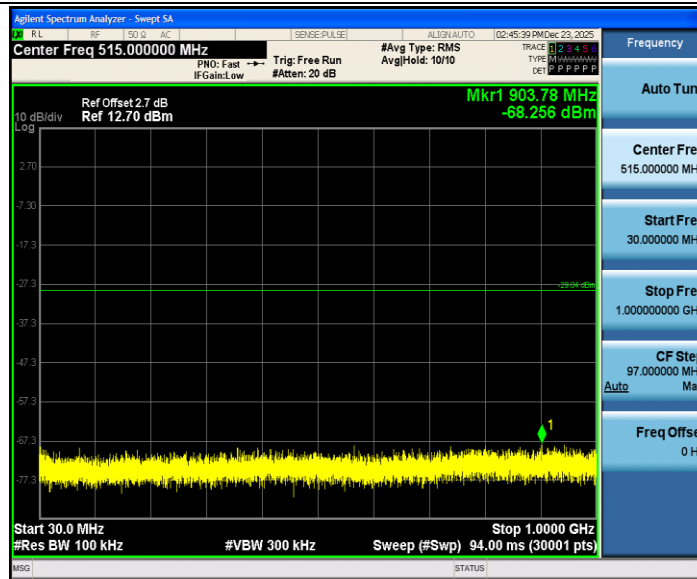
11B_Ant1_2437_1000~26500



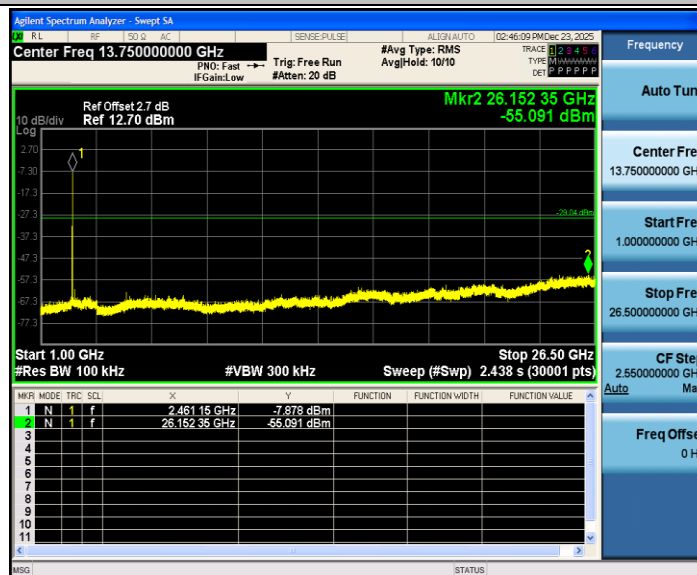
11B_Ant1_2462_0~Reference



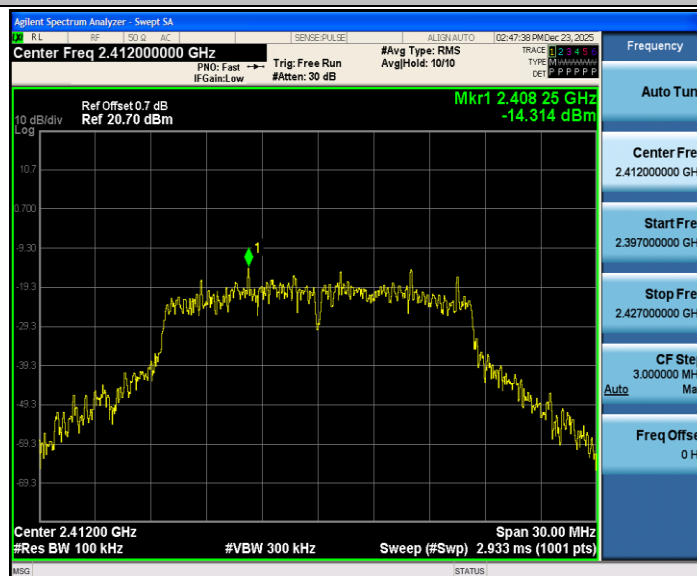
11B_Ant1_2462_30~1000



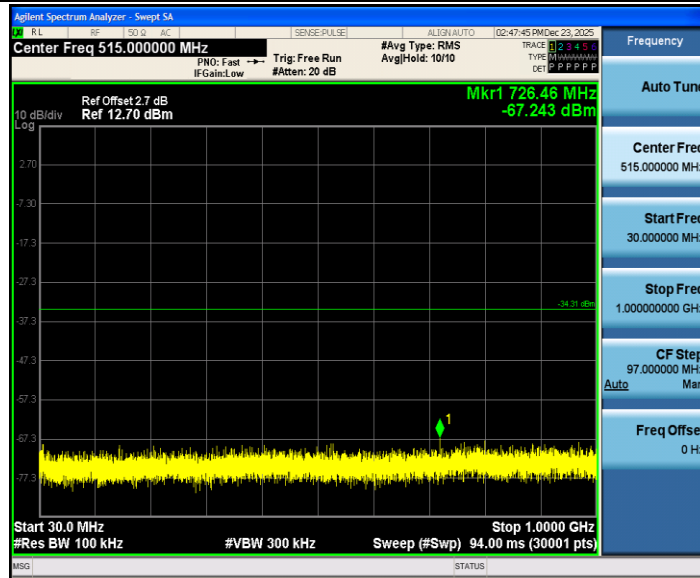
11B_Ant1_2462_1000~26500



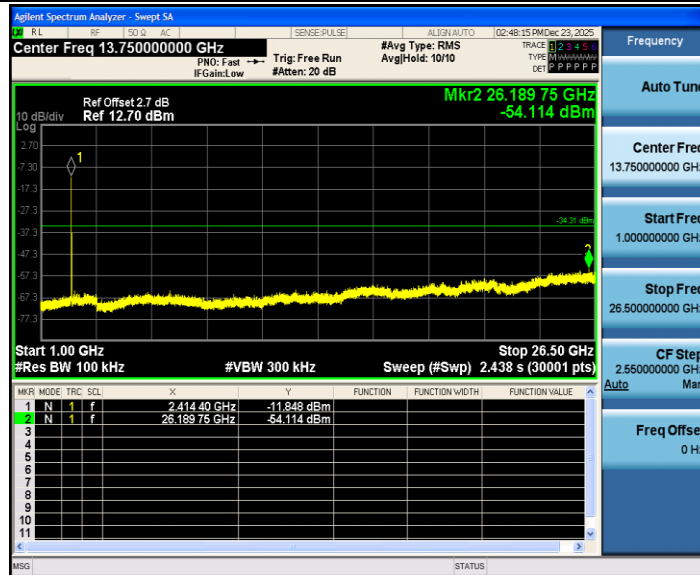
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



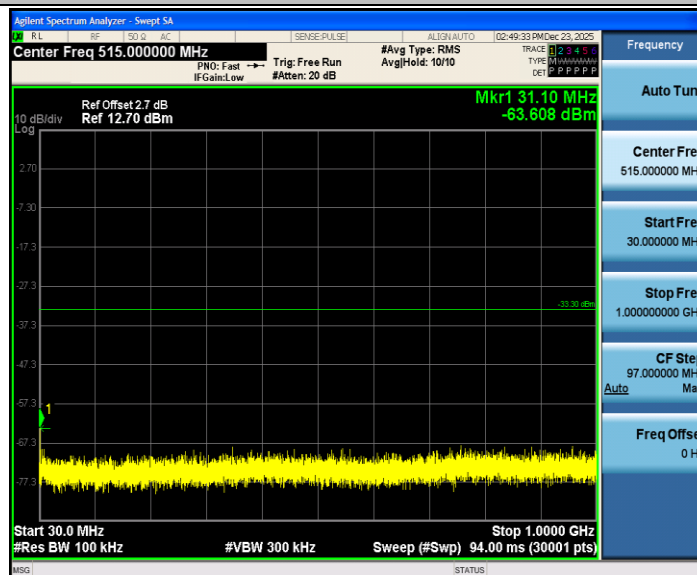
11G_Ant1_2412_1000~26500



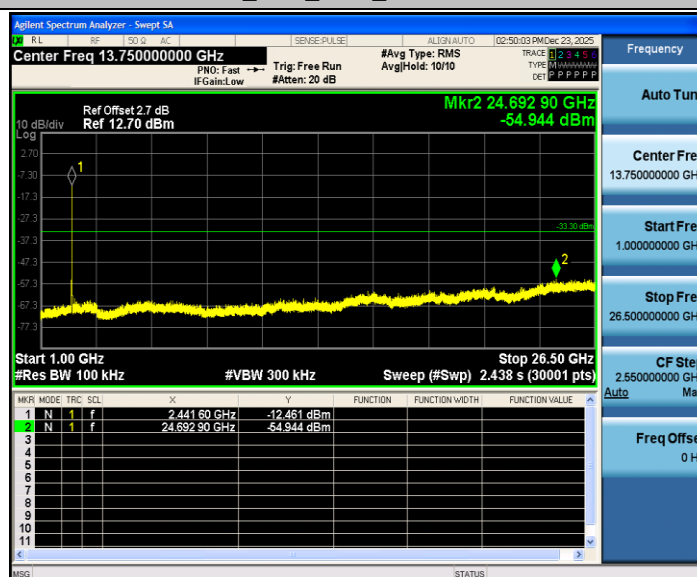
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



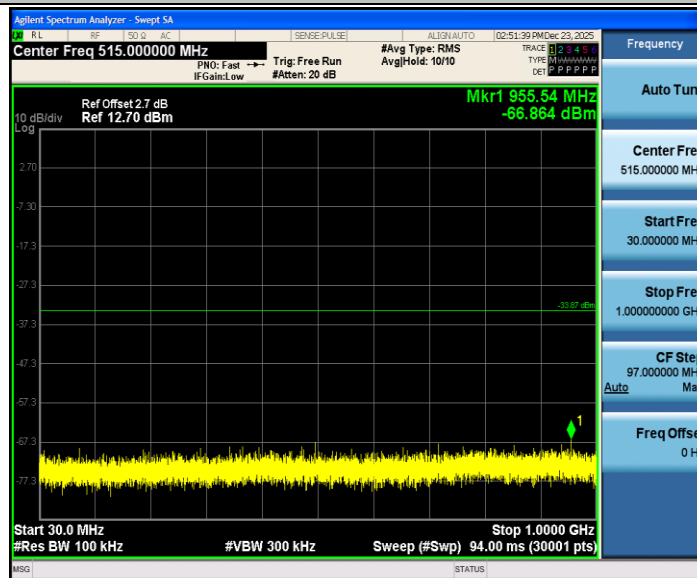
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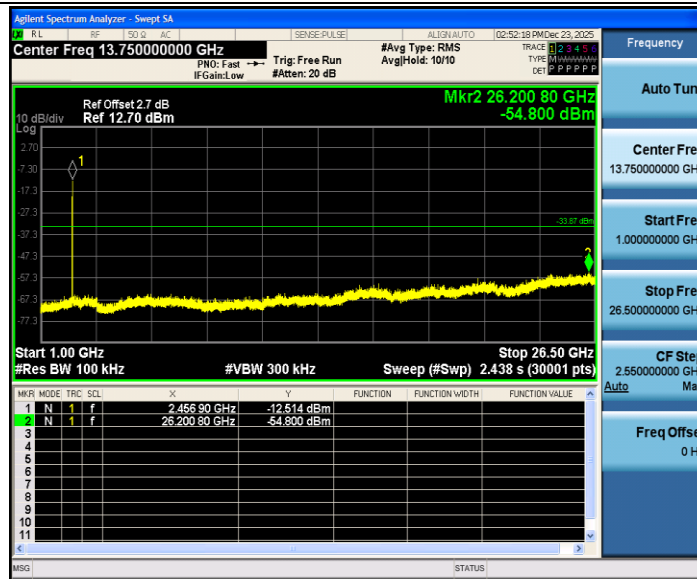
11G_Ant1_2462_0~Reference



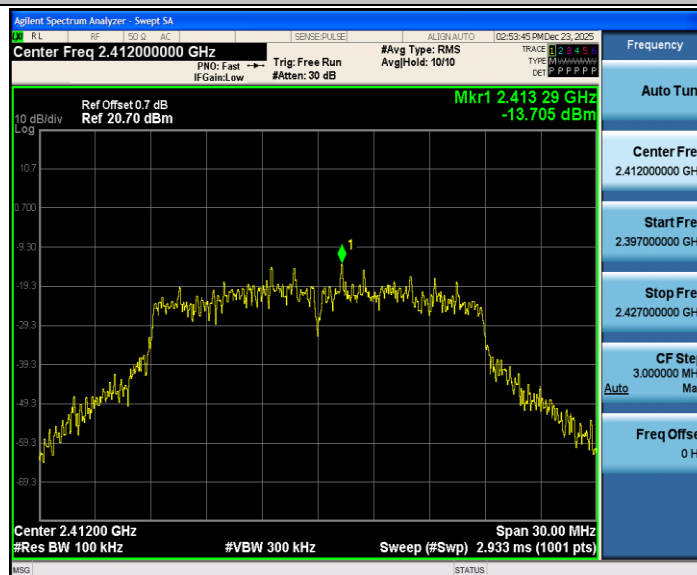
11G_Ant1_2462_30~1000



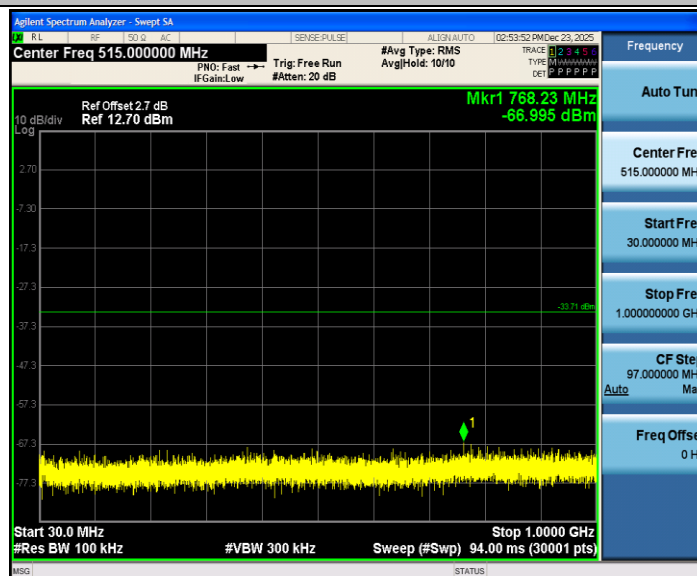
11G_Ant1_2462_1000~26500



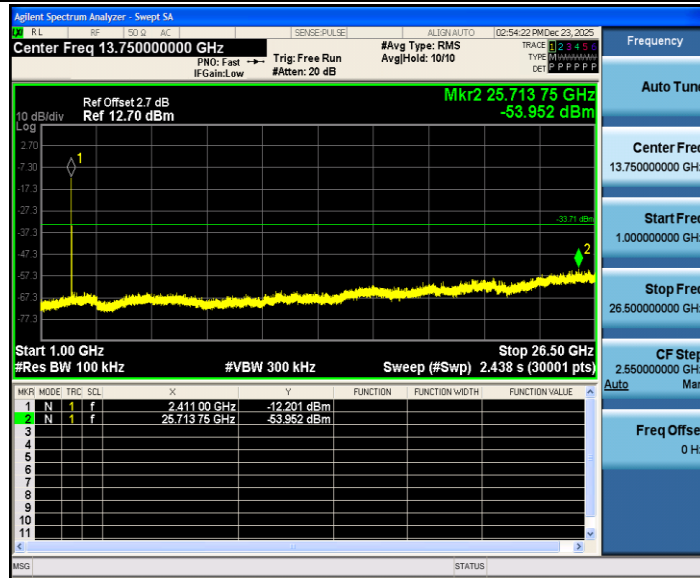
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000