

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2A7JV-GENIEJ1

Company : Shenzhen Jiutong zhichuang technology Co., Ltd

EUT : AI Plush Toys

Model Number : Genie J1

Report No. : CTA26080700202

Reviewed By : Eric Wang

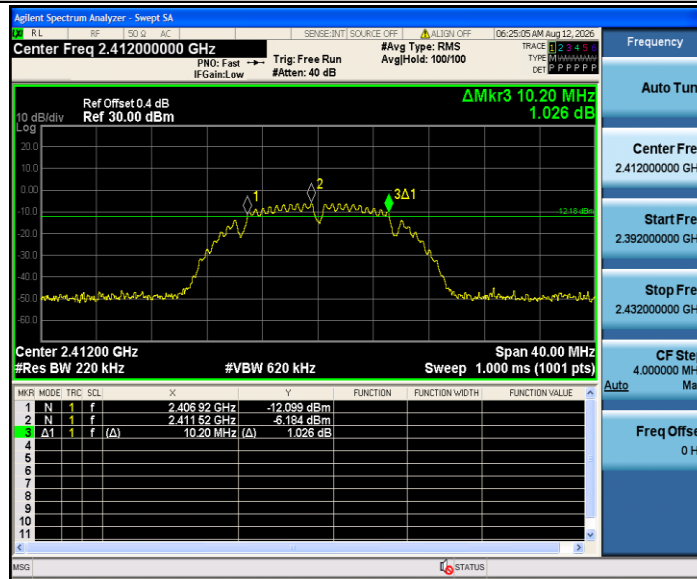
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.200	2406.920	2417.120	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	15.880	2404.120	2420.000	0.5	PASS
		2437	15.600	2429.080	2444.680	0.5	PASS
		2462	15.920	2454.040	2469.960	0.5	PASS
11N20SISO	Ant1	2412	16.480	2404.280	2420.760	0.5	PASS
		2437	17.160	2428.440	2445.600	0.5	PASS
		2462	17.120	2453.480	2470.600	0.5	PASS
11N40SISO	Ant1	2422	35.520	2404.480	2440.000	0.5	PASS
		2437	35.360	2419.720	2455.080	0.5	PASS
		2452	35.280	2434.720	2470.000	0.5	PASS

Test Graphs

11B_Ant1_2412



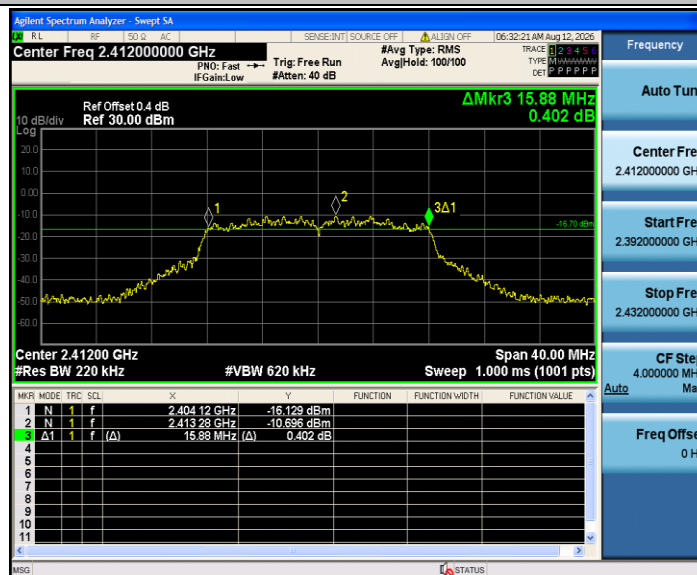
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



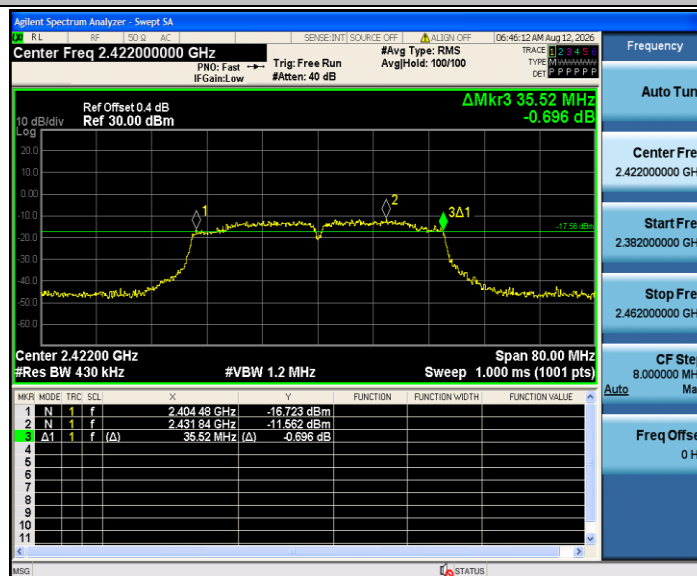
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



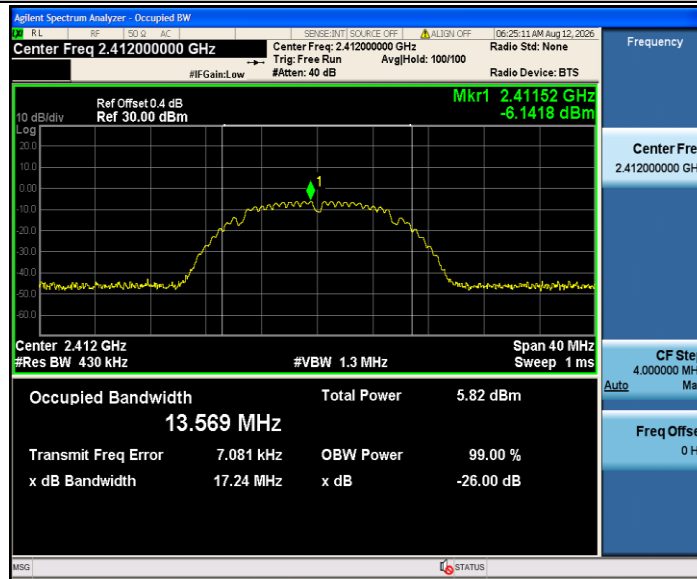
Appendix B: Occupied Channel Bandwidth

Test Result

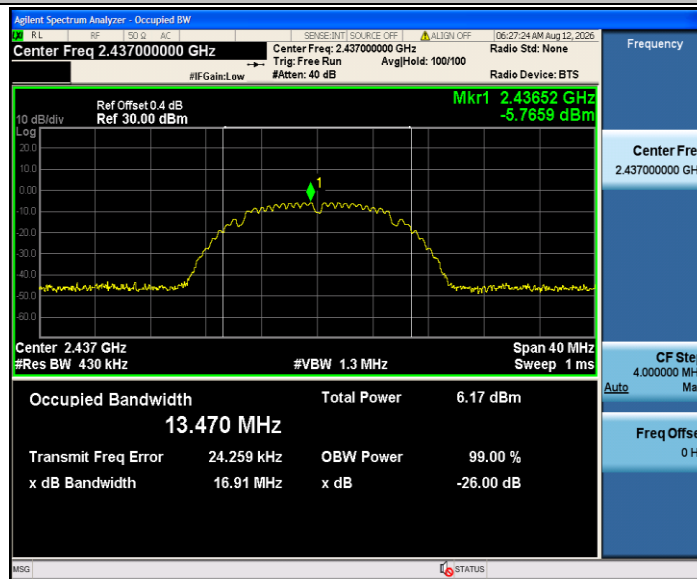
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.569	2405.2226	2418.7916	---	---
		2437	13.470	2430.2893	2443.7593	---	---
		2462	13.473	2455.2965	2468.7695	---	---
11G	Ant1	2412	16.873	2403.5806	2420.4536	---	---
		2437	16.914	2428.6018	2445.5158	---	---
		2462	16.944	2453.5716	2470.5156	---	---
11N20SISO	Ant1	2412	17.936	2403.0573	2420.9933	---	---
		2437	17.952	2428.0675	2446.0195	---	---
		2462	17.931	2453.0412	2470.9722	---	---
11N40SISO	Ant1	2422	36.085	2404.1344	2440.2194	---	---
		2437	36.163	2419.1015	2455.2645	---	---
		2452	36.098	2434.1143	2470.2123	---	---

Test Graphs

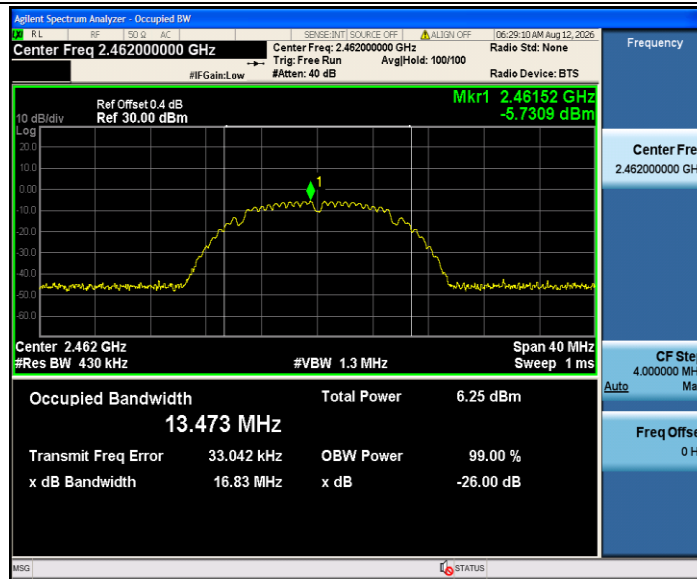
11B_Ant1_2412



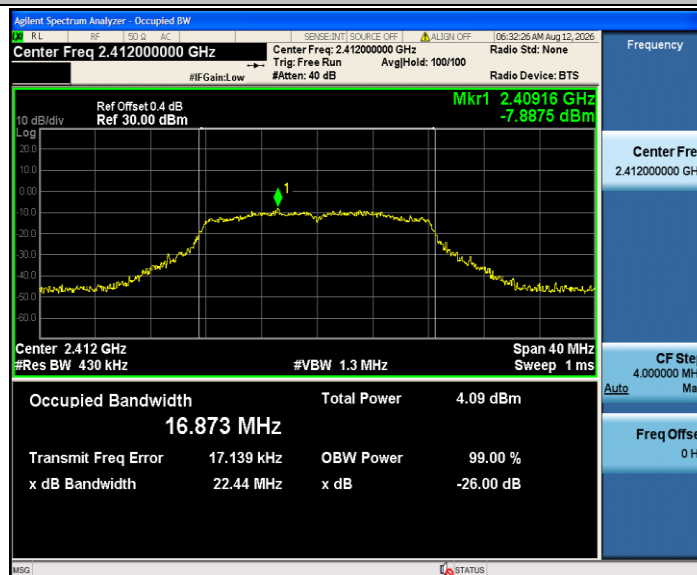
11B_Ant1_2437



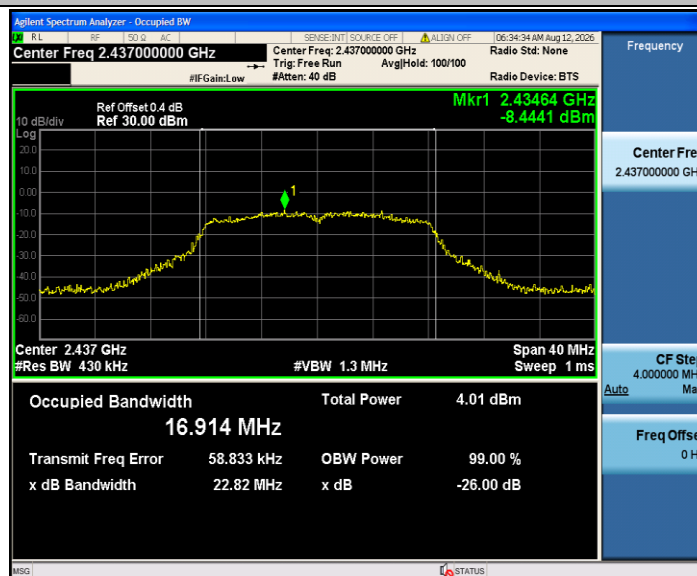
11B_Ant1_2462



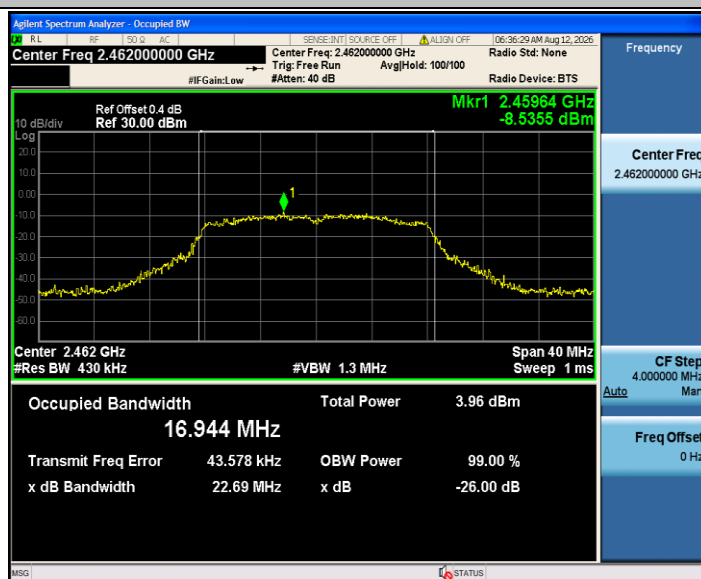
11G_Ant1_2412



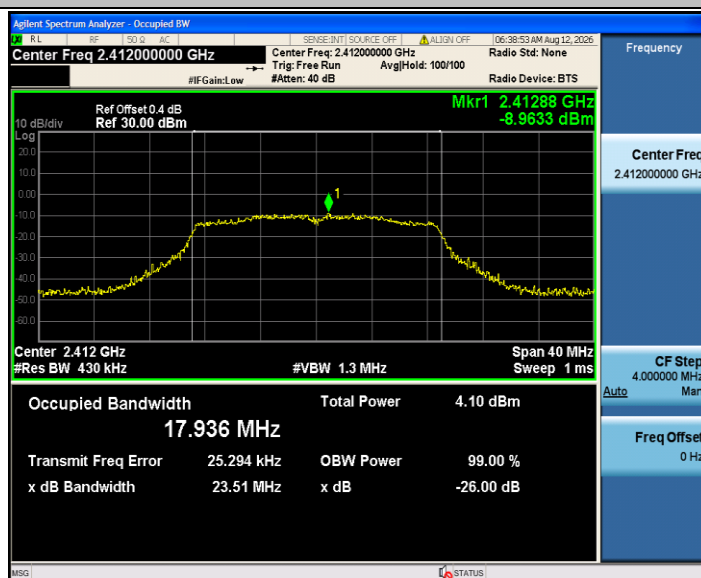
11G_Ant1_2437



11G_Ant1_2462



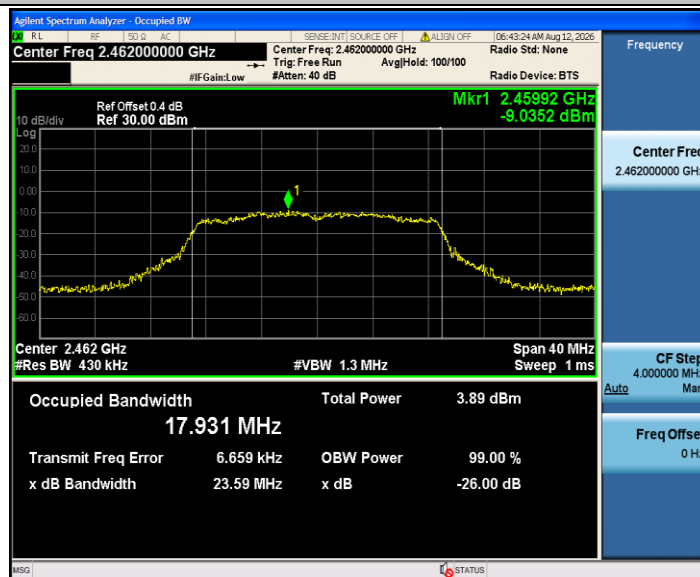
11N20SISO_Ant1_2412



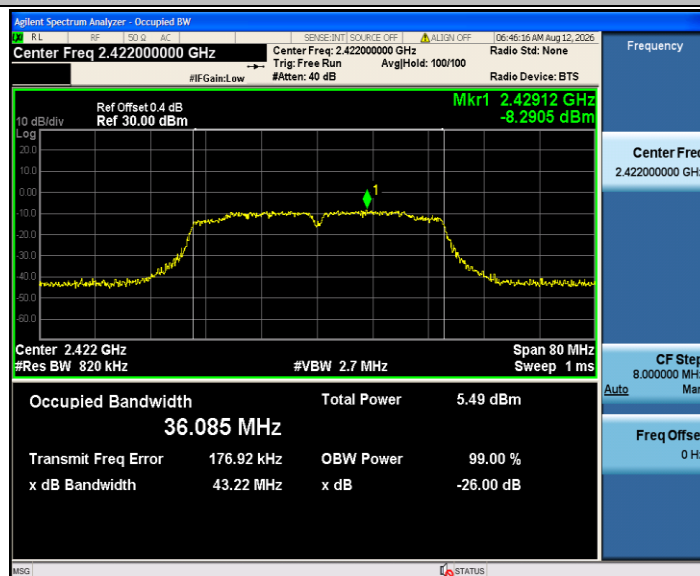
11N20SISO_Ant1_2437



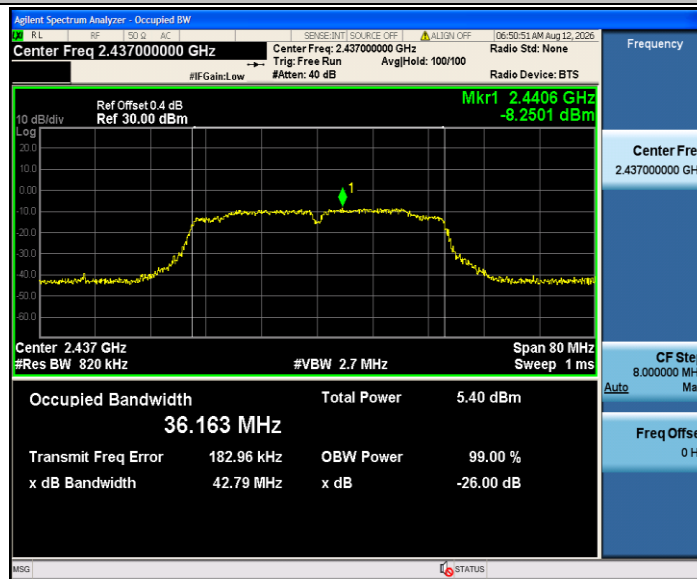
11N20SISO_Ant1_2462



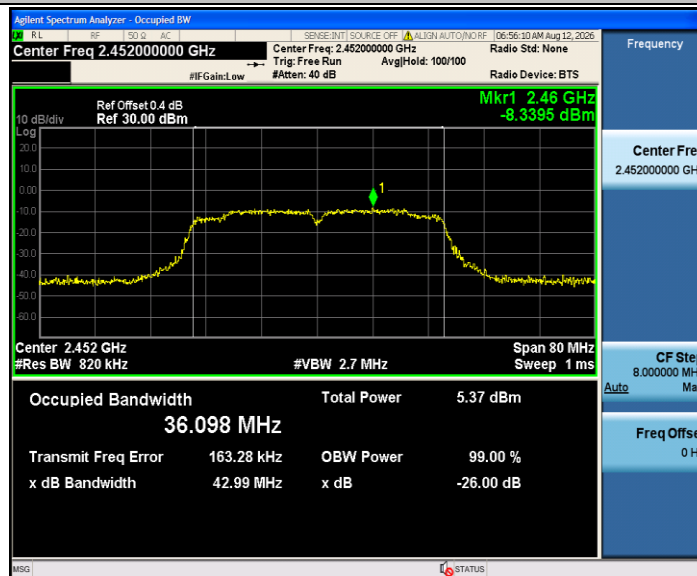
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	5.61	≤30.00	PASS
		2437	5.83	≤30.00	PASS
		2462	5.91	≤30.00	PASS
11G	Ant1	2412	5.01	≤30.00	PASS
		2437	4.91	≤30.00	PASS
		2462	4.89	≤30.00	PASS
11N20SISO	Ant1	2412	4.86	≤30.00	PASS
		2437	4.84	≤30.00	PASS
		2462	4.85	≤30.00	PASS
11N40SISO	Ant1	2422	5.61	≤30.00	PASS
		2437	5.47	≤30.00	PASS
		2452	5.38	≤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	-19.90	≤8.00	PASS
		2437	-20.37	≤8.00	PASS
		2462	-20.06	≤8.00	PASS
11G	Ant1	2412	-27.07	≤8.00	PASS
		2437	-25.93	≤8.00	PASS
		2462	-26.32	≤8.00	PASS
11N20SISO	Ant1	2412	-26.38	≤8.00	PASS
		2437	-26.88	≤8.00	PASS
		2462	-26.22	≤8.00	PASS
11N40SISO	Ant1	2422	-28.73	≤8.00	PASS
		2437	-28.51	≤8.00	PASS
		2452	-28.88	≤8.00	PASS

Test Graphs

11B_Ant1_2412



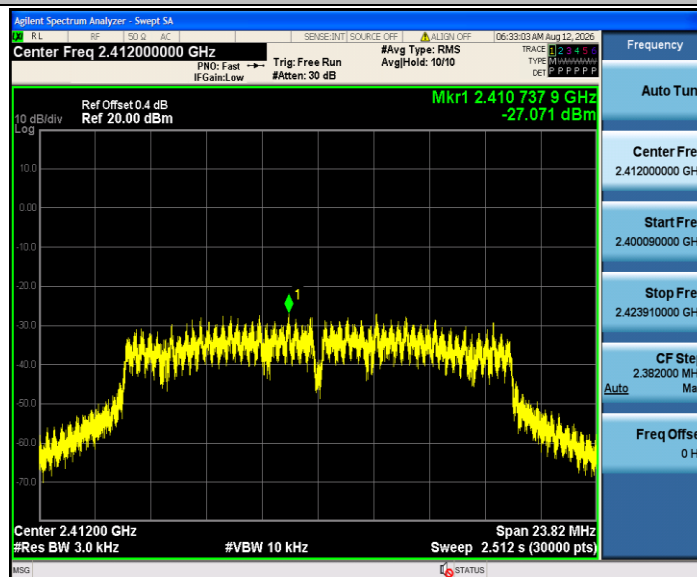
11B_Ant1_2437



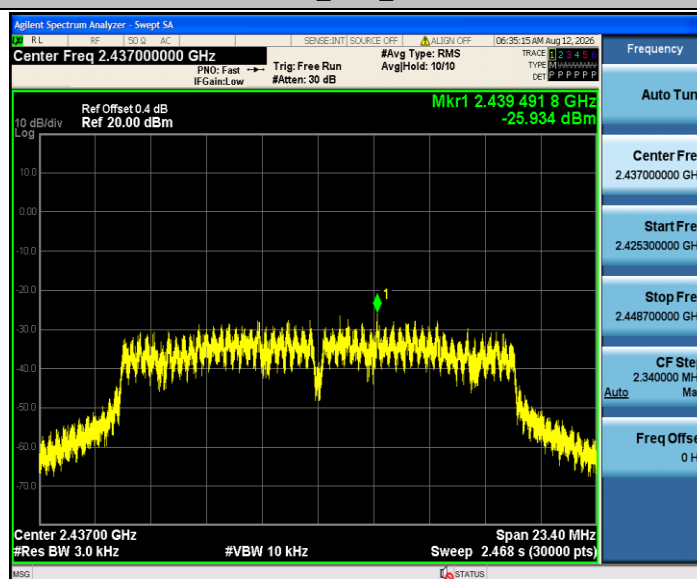
11B_Ant1_2462



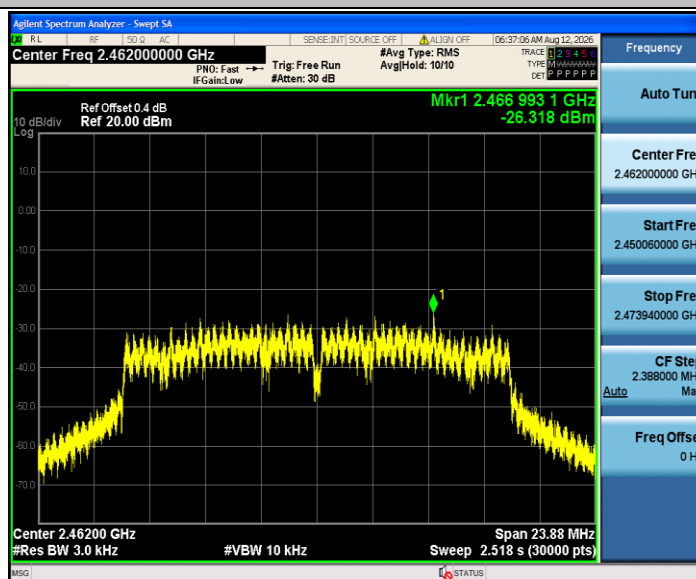
11G_Ant1_2412



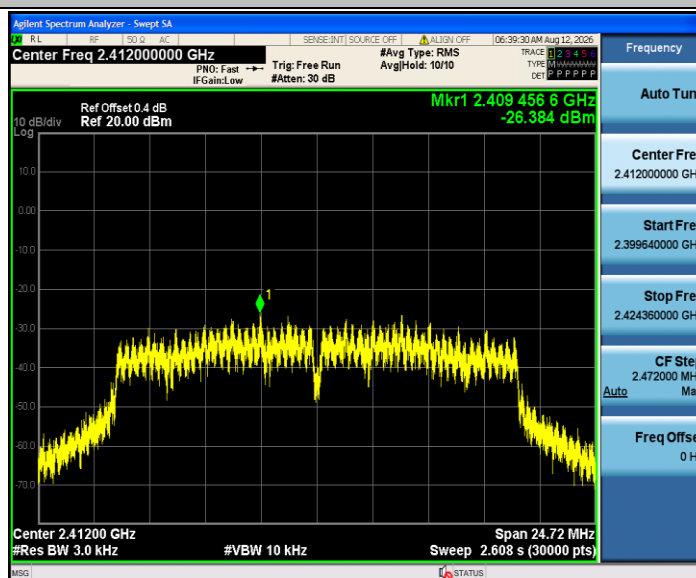
11G_Ant1_2437



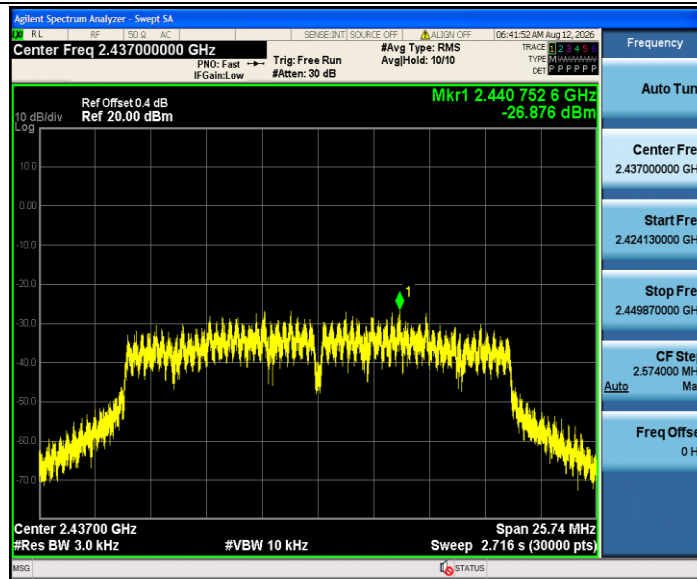
11G_Ant1_2462



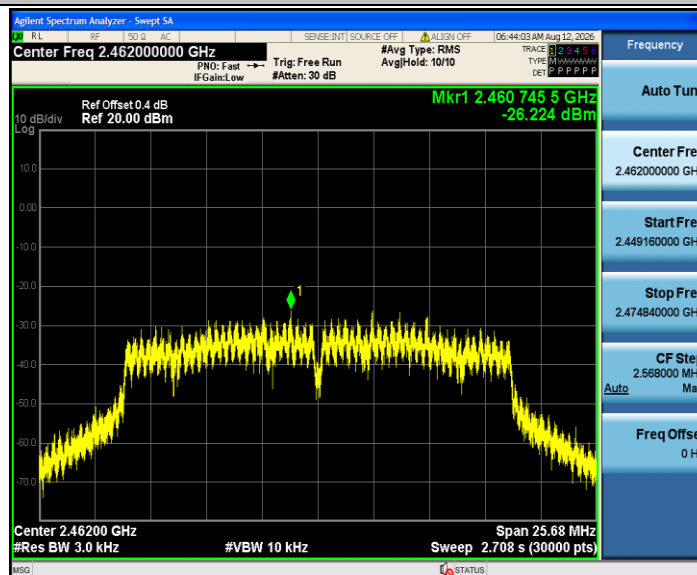
11N20SISO_Ant1_2412



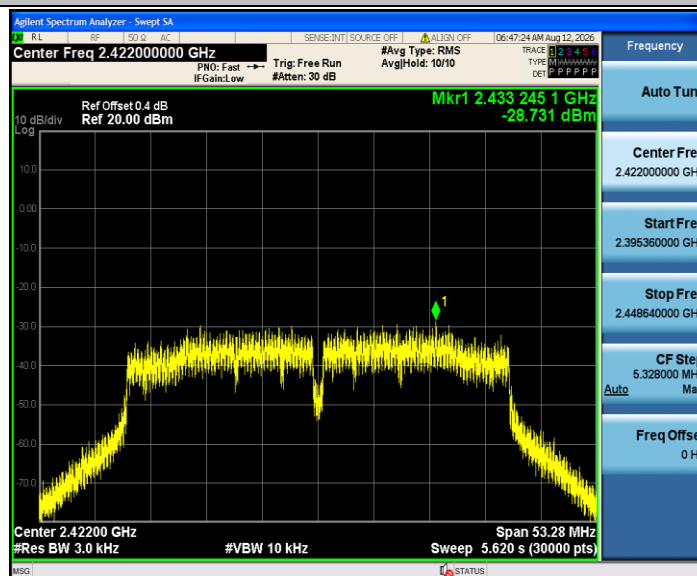
11N20SISO_Ant1_2437



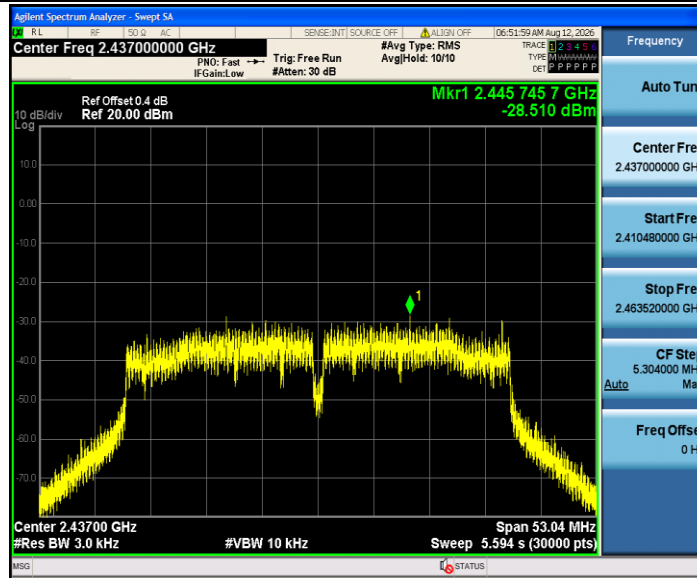
11N20SISO_Ant1_2462



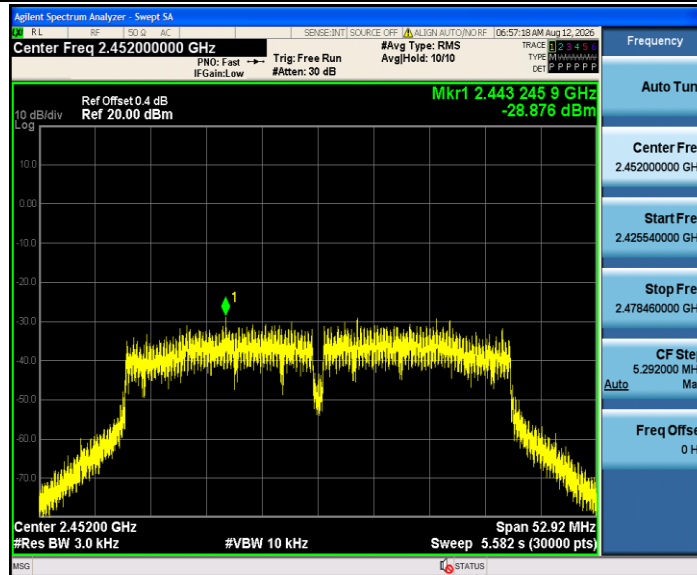
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



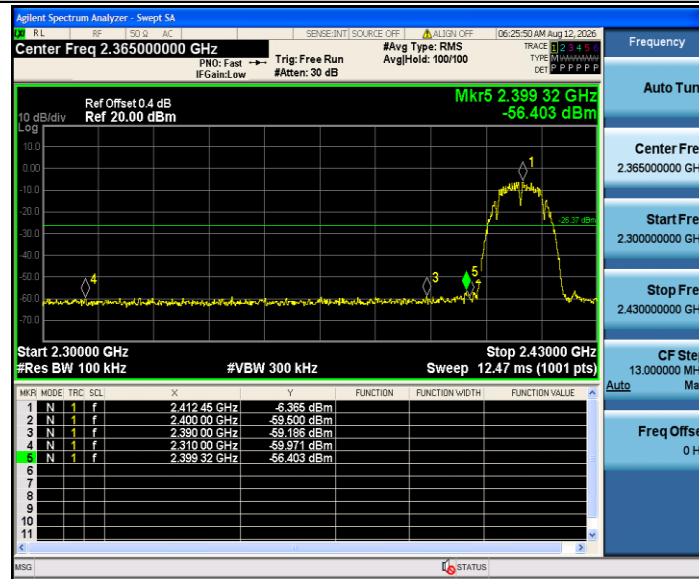
Appendix E: Band edge measurements

Test Result

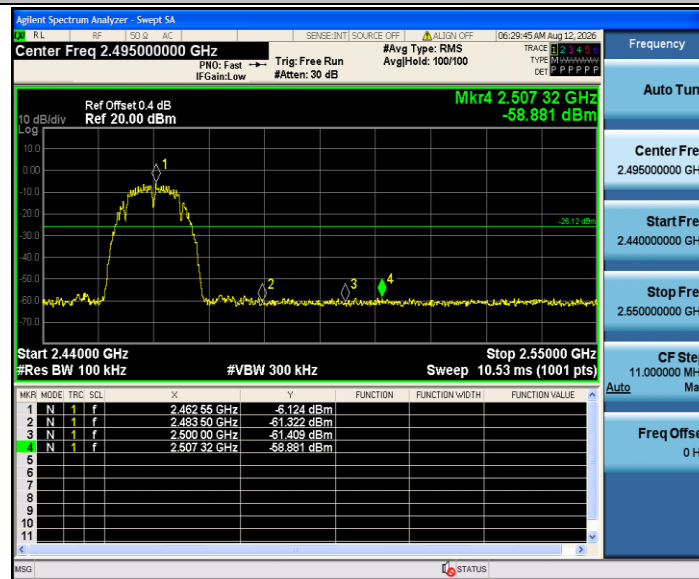
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-6.37	-56.4	≤-26.37	PASS
		High	2462	-6.12	-58.88	≤-26.12	PASS
11G	Ant1	Low	2412	-11.41	-42	≤-31.41	PASS
		High	2462	-11.48	-57.94	≤-31.48	PASS
11N20SISO	Ant1	Low	2412	-11.35	-42.64	≤-31.35	PASS
		High	2462	-11.47	-58.17	≤-31.47	PASS
11N40SISO	Ant1	Low	2422	-14.39	-43.04	≤-34.39	PASS
		High	2452	-14.39	-58.55	≤-34.39	PASS

Test Graphs

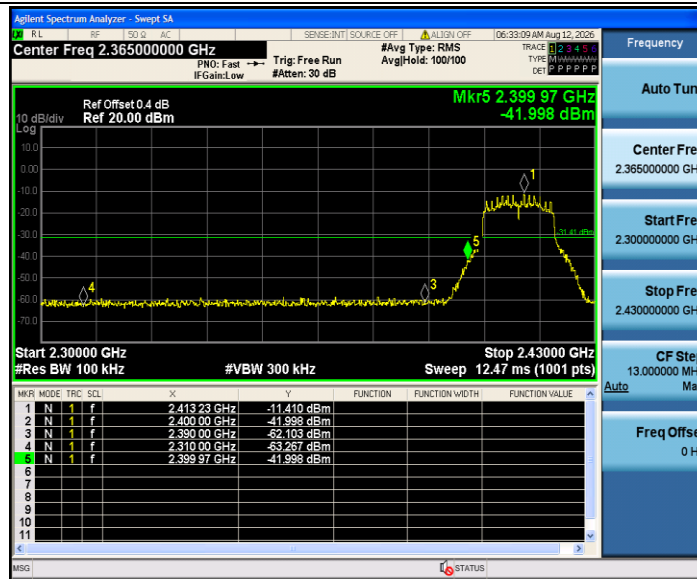
11B_Ant1_Low_2412



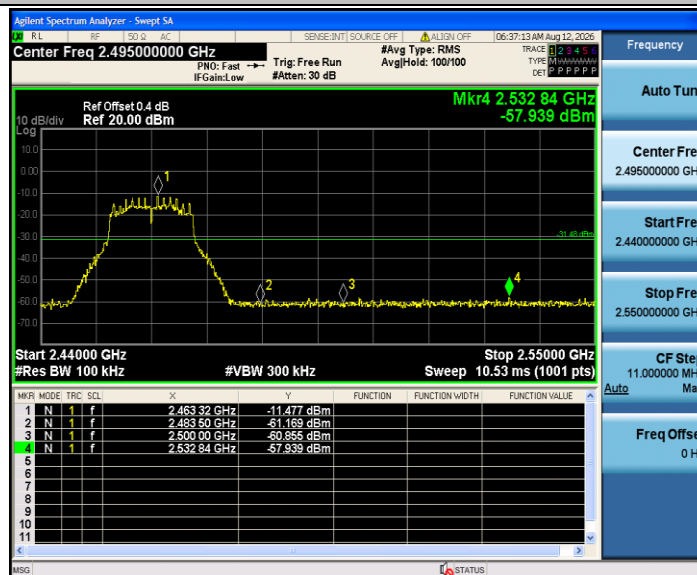
11B_Ant1_High_2462



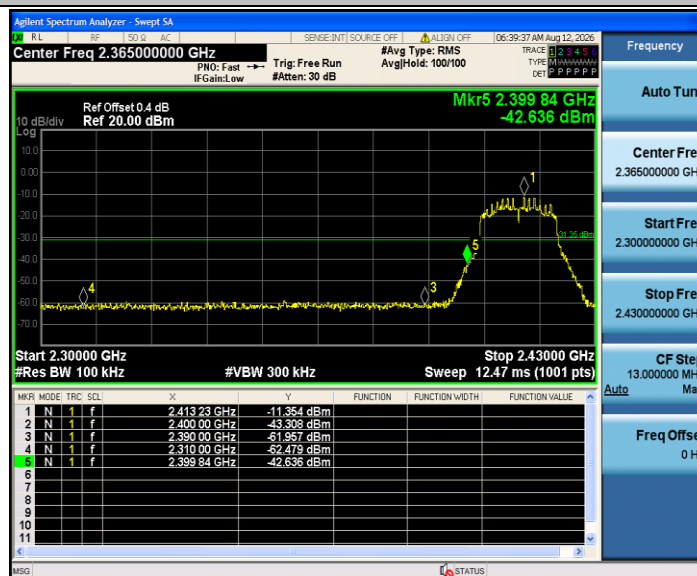
11G_Ant1_Low_2412



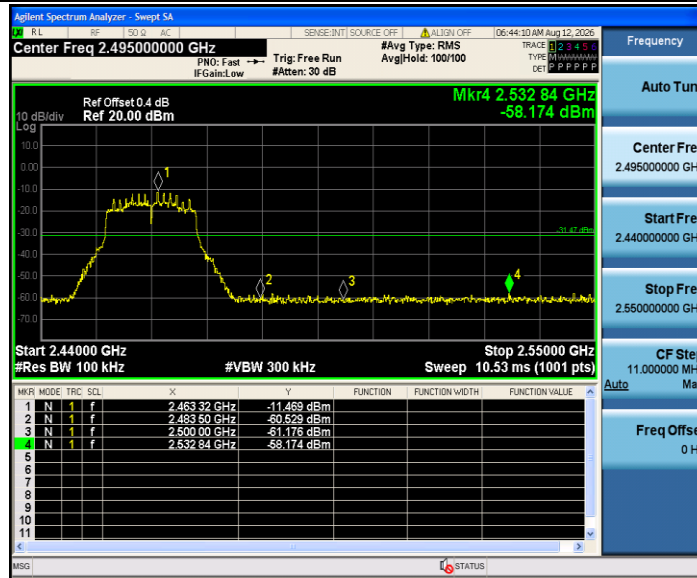
11G_Ant1_High_2462



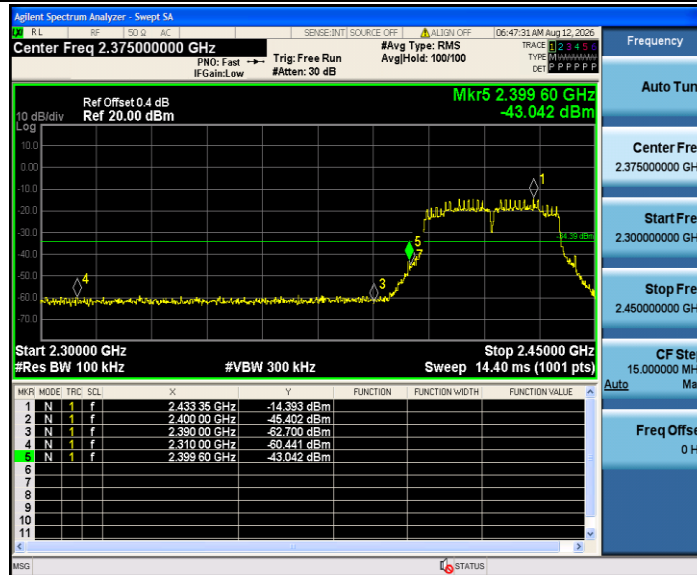
11N20SISO_Ant1_Low_2412



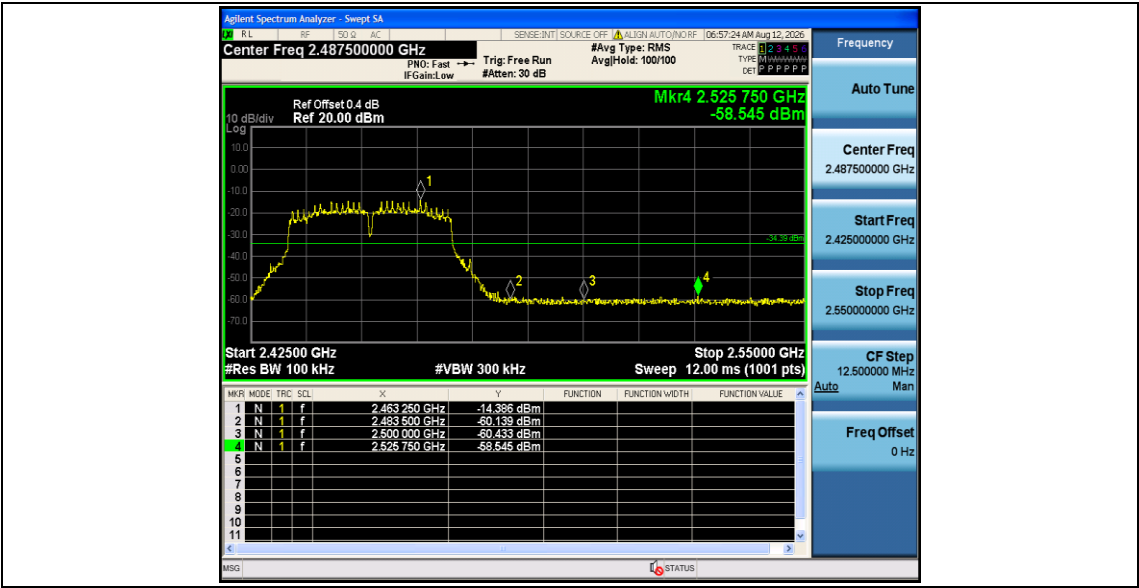
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

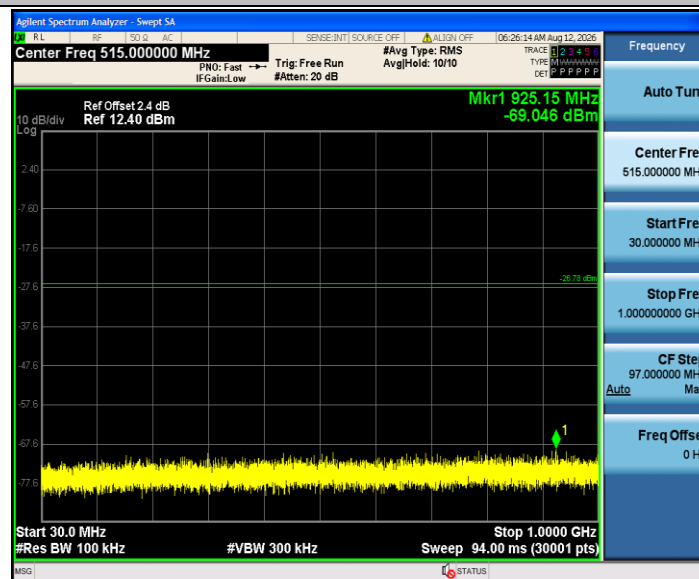
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-6.78	-6.78	---	PASS
			30~1000	-6.78	-69.05	≤-26.78	PASS
			1000~26500	-6.78	-46.85	≤-26.78	PASS
		2437	Reference	-7.36	-7.36	---	PASS
			30~1000	-7.36	-67.84	≤-27.36	PASS
			1000~26500	-7.36	-46.32	≤-27.36	PASS
		2462	Reference	-6.57	-6.57	---	PASS
			30~1000	-6.57	-69.3	≤-26.57	PASS
			1000~26500	-6.57	-45.89	≤-26.57	PASS
11G	Ant1	2412	Reference	-11.84	-11.84	---	PASS
			30~1000	-11.84	-68.52	≤-31.84	PASS
			1000~26500	-11.84	-46.79	≤-31.84	PASS
		2437	Reference	-12.31	-12.31	---	PASS
			30~1000	-12.31	-68.87	≤-32.31	PASS
			1000~26500	-12.31	-46.48	≤-32.31	PASS
		2462	Reference	-11.49	-11.49	---	PASS
			30~1000	-11.49	-69.55	≤-31.49	PASS
			1000~26500	-11.49	-46.63	≤-31.49	PASS
11N20SISO	Ant1	2412	Reference	-12.20	-12.20	---	PASS
			30~1000	-12.20	-67.69	≤-32.2	PASS
			1000~26500	-12.20	-45.37	≤-32.2	PASS
		2437	Reference	-12.02	-12.02	---	PASS
			30~1000	-12.02	-68.59	≤-32.02	PASS
			1000~26500	-12.02	-46.47	≤-32.02	PASS
		2462	Reference	-12.04	-12.04	---	PASS
			30~1000	-12.04	-68.88	≤-32.04	PASS
			1000~26500	-12.04	-46.97	≤-32.04	PASS
11N40SISO	Ant1	2422	Reference	-14.69	-14.69	---	PASS
			30~1000	-14.69	-69.12	≤-34.69	PASS
			1000~26500	-14.69	-46.62	≤-34.69	PASS
		2437	Reference	-15.17	-15.17	---	PASS
			30~1000	-15.17	-69	≤-35.17	PASS
			1000~26500	-15.17	-45.53	≤-35.17	PASS
		2452	Reference	-14.98	-14.98	---	PASS
			30~1000	-14.98	-68.38	≤-34.98	PASS
			1000~26500	-14.98	-46.8	≤-34.98	PASS

Test Graphs

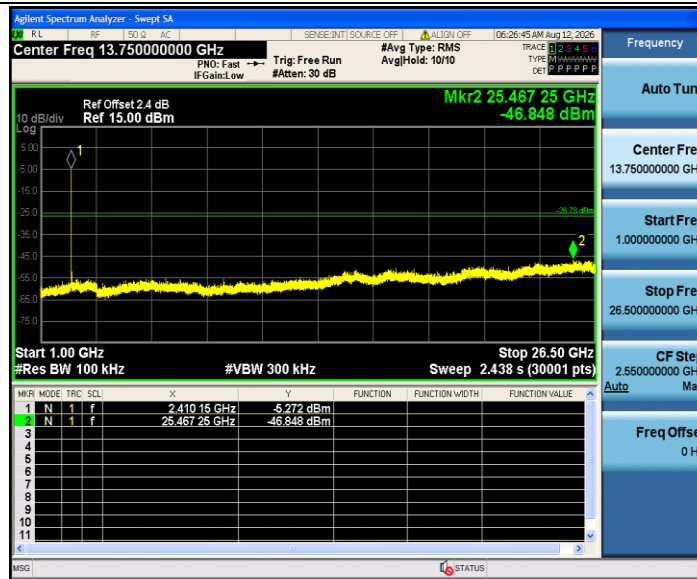
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



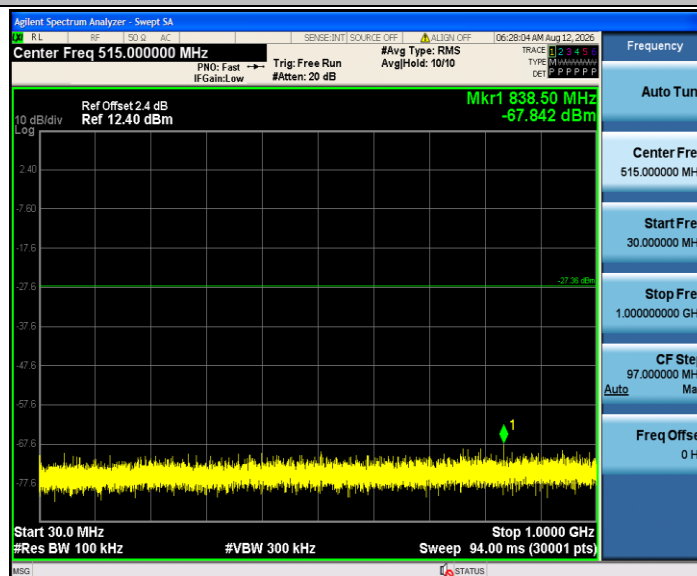
11B_Ant1_2412_1000~26500



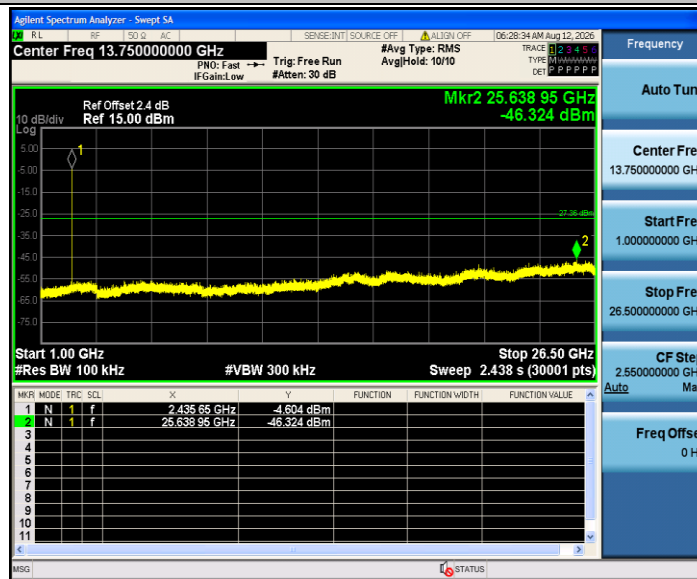
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



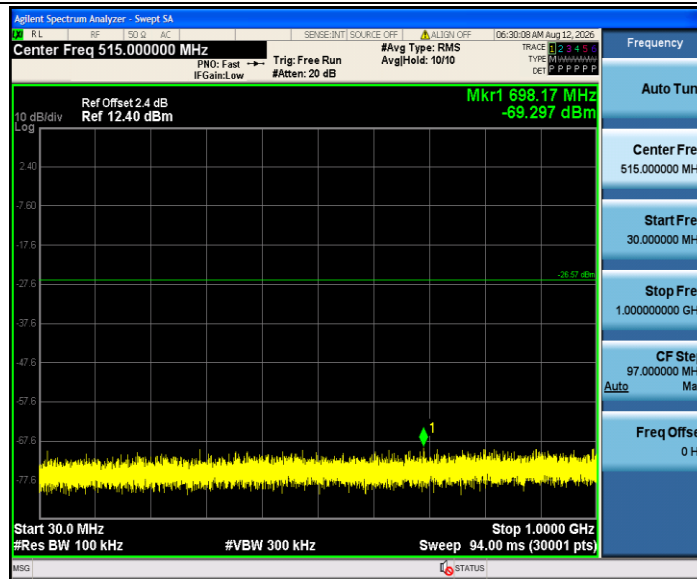
11B_Ant1_2437_1000~26500



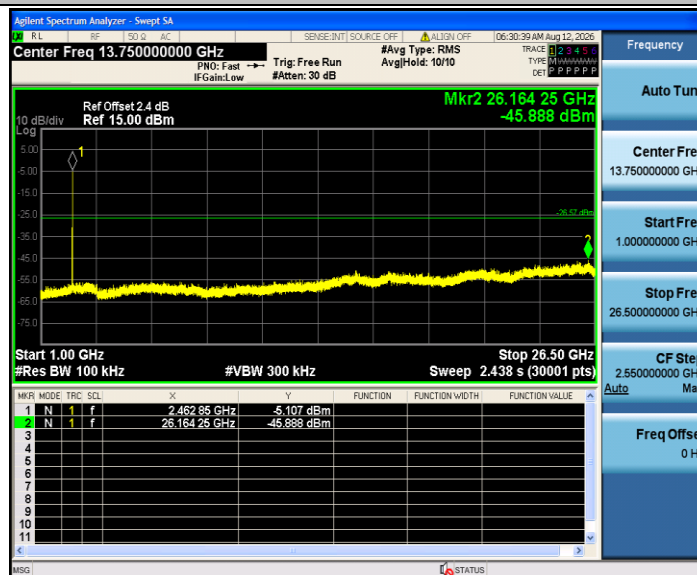
11B_Ant1_2462_0~Reference



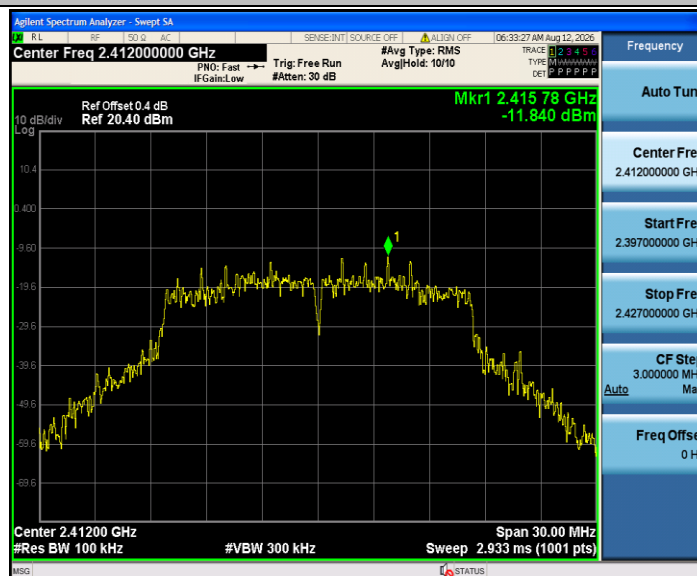
11B_Ant1_2462_30~1000



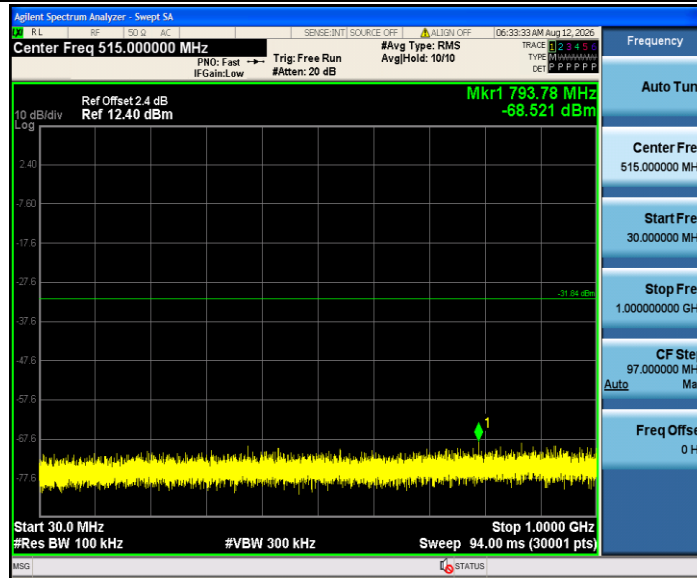
11B_Ant1_2462_1000~26500



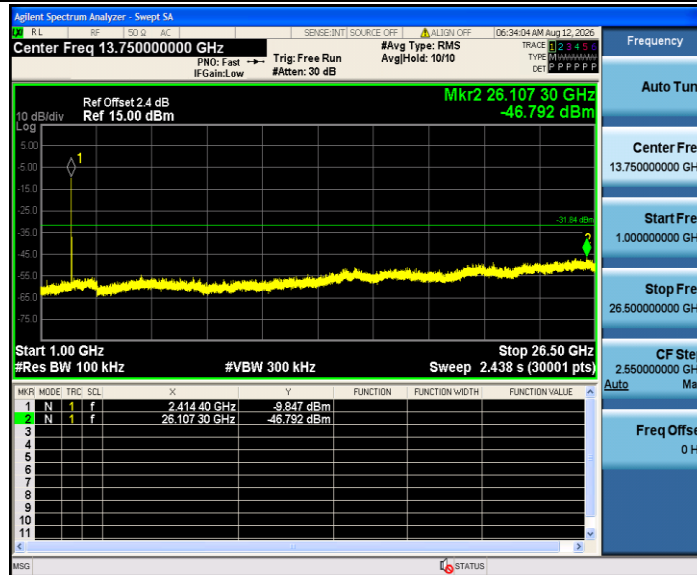
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



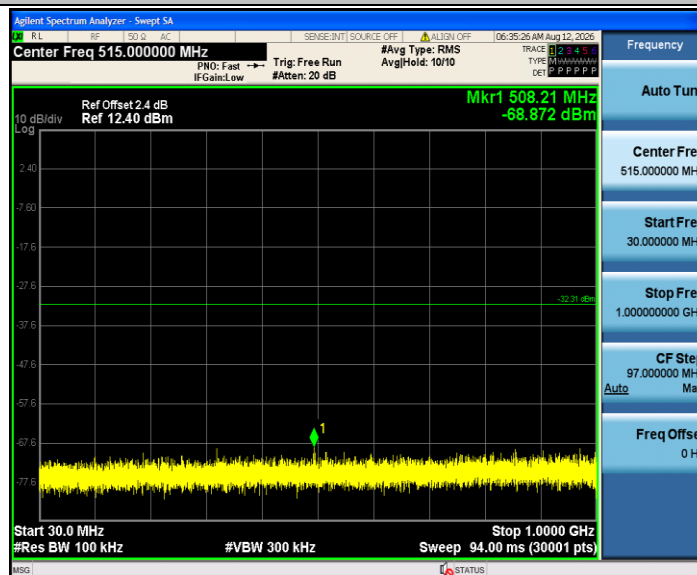
11G_Ant1_2412_1000~26500



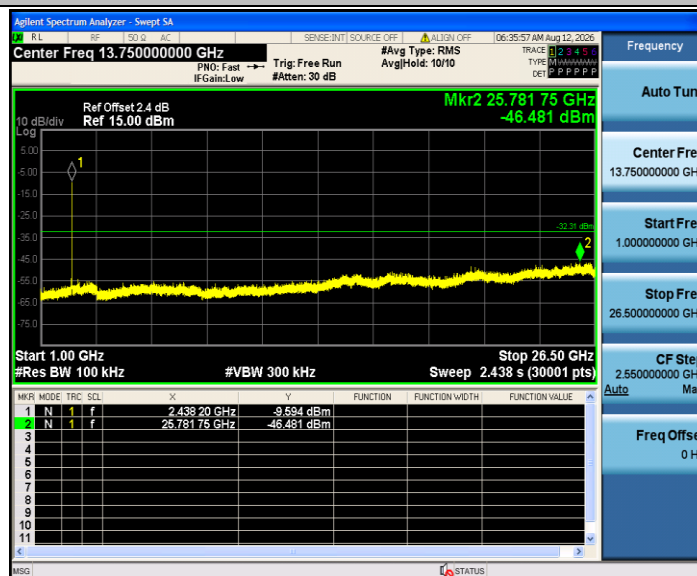
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



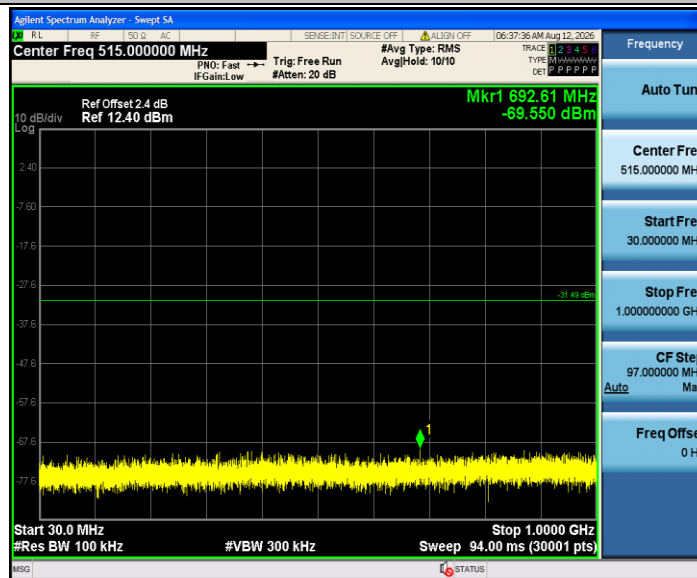
11G_Ant1_2437_1000~26500



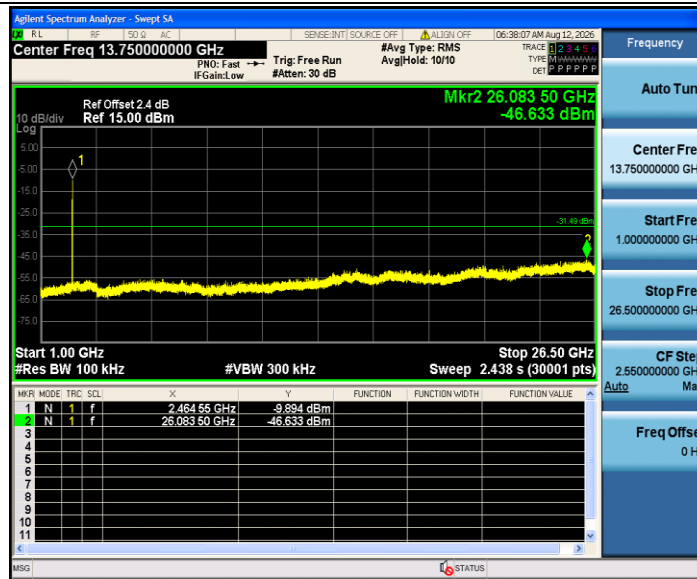
11G_Ant1_2462_0~Reference



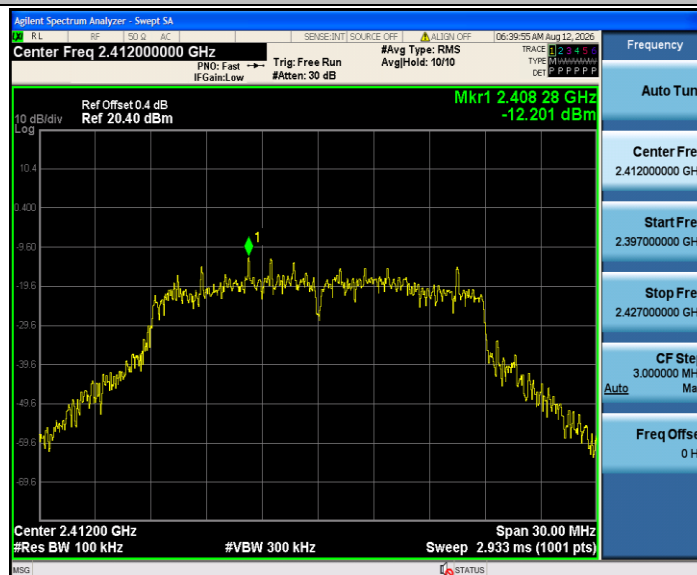
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

