

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2A6P9-AS-BMA01

Company : Promaster Electronic LLC

EUT : Wireless CP&AA adaptor

Model Number : AS-BMA-100

Report No. : CTA26052800903

Reviewed By : Eric Wang

FCC Appendix RF Test Data for 2.4GWIFI Antenna 0

Appendix A: DTS Bandwidth

Test Result

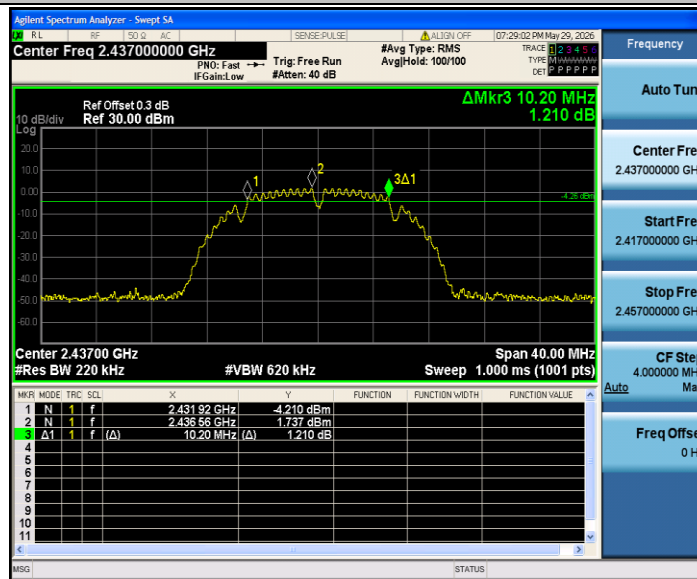
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	10.240	2406.920	2417.160	0.5	PASS
		2437	10.200	2431.920	2442.120	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant0	2412	15.440	2404.240	2419.680	0.5	PASS
		2437	15.680	2429.080	2444.760	0.5	PASS
		2462	15.960	2454.080	2470.040	0.5	PASS
11N20SISO	Ant0	2412	16.520	2403.520	2420.040	0.5	PASS
		2437	16.320	2428.440	2444.760	0.5	PASS
		2462	16.920	2453.480	2470.400	0.5	PASS
11N40SISO	Ant0	2422	35.520	2404.240	2439.760	0.5	PASS
		2437	35.120	2419.720	2454.840	0.5	PASS
		2452	35.920	2434.080	2470.000	0.5	PASS

Test Graphs

11B_Ant0_2412



11B_Ant0_2437



11B_Ant0_2462



11G_Ant0_2412



11G_Ant0_2437



11G_Ant0_2462



11N20SISO_Ant0_2412



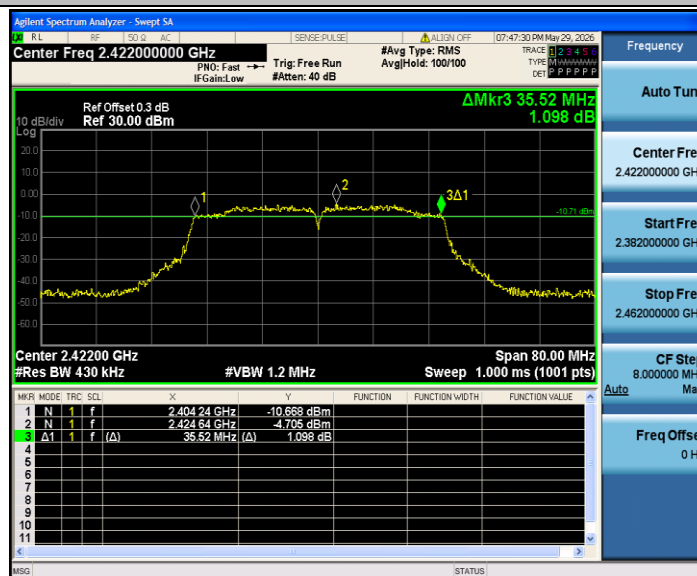
11N20SISO_Ant0_2437



11N20SISO_Ant0_2462



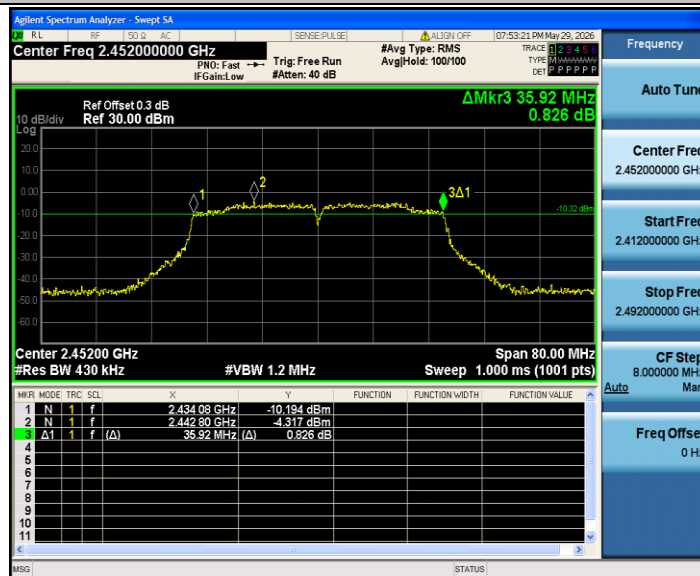
11N40SISO_Ant0_2422



11N40SISO_Ant0_2437



11N40SISO_Ant0_2452



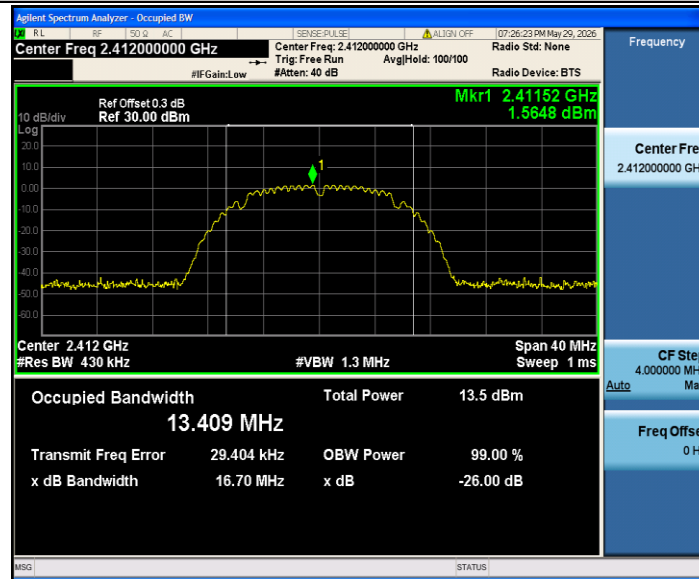
Appendix B: Occupied Channel Bandwidth

Test Result

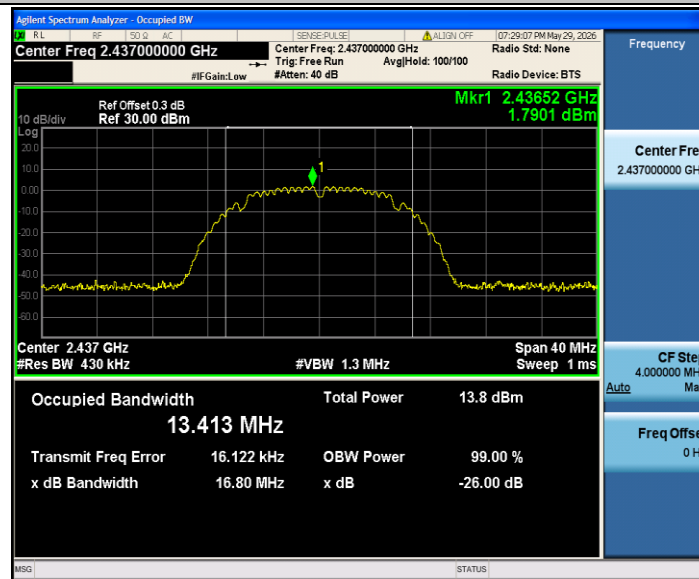
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	13.409	2405.3249	2418.7339	---	---
		2437	13.413	2430.3096	2443.7226	---	---
		2462	13.423	2455.3010	2468.7240	---	---
11G	Ant0	2412	16.839	2403.6147	2420.4537	---	---
		2437	16.813	2428.6780	2445.4910	---	---
		2462	16.795	2453.6579	2470.4529	---	---
11N20SISO	Ant0	2412	17.918	2403.0598	2420.9778	---	---
		2437	17.914	2428.0598	2445.9738	---	---
		2462	17.887	2453.0576	2470.9446	---	---
11N40SISO	Ant0	2422	36.059	2404.0670	2440.1260	---	---
		2437	36.101	2419.0652	2455.1662	---	---
		2452	36.035	2434.0942	2470.1292	---	---

Test Graphs

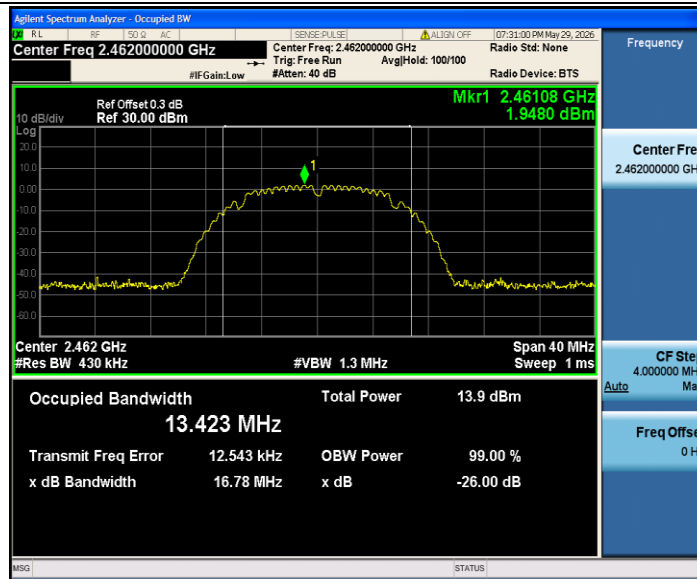
11B_Ant0_2412



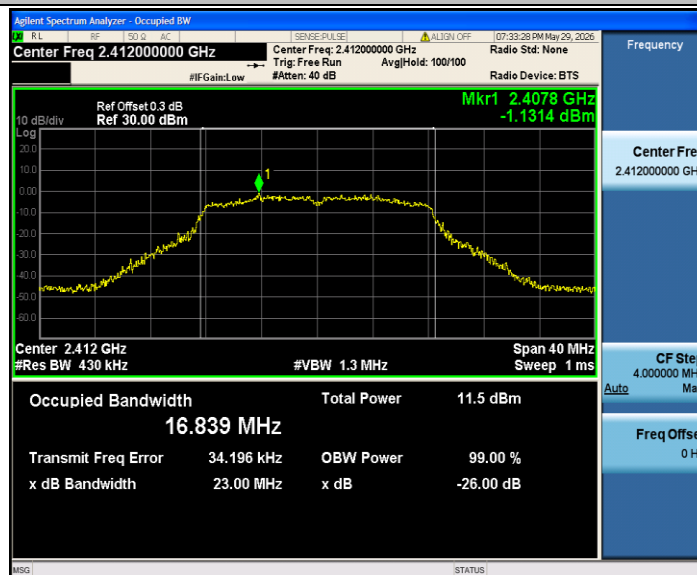
11B_Ant0_2437



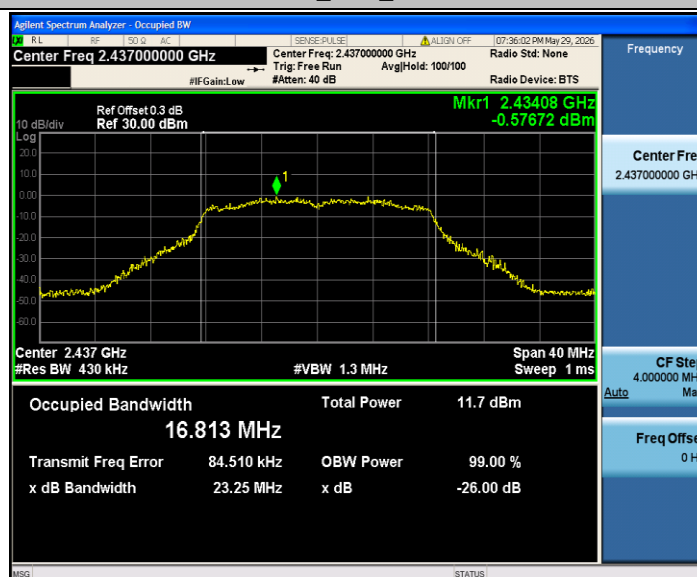
11B_Ant0_2462



11G_Ant0_2412



11G_Ant0_2437



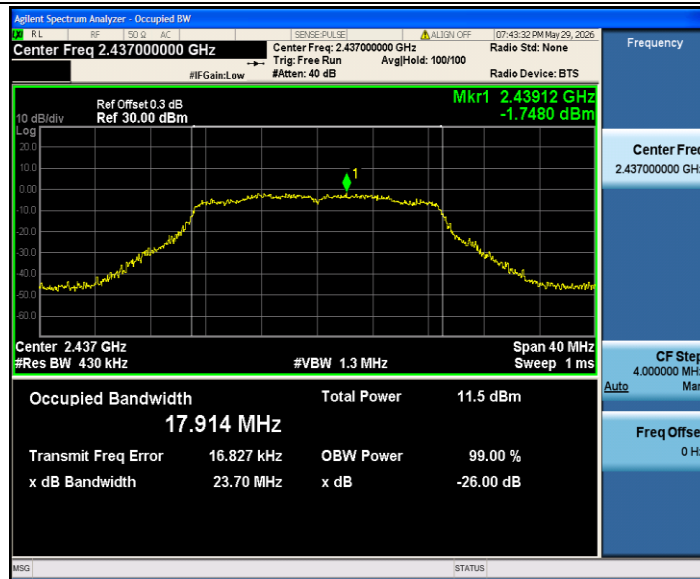
11G_Ant0_2462



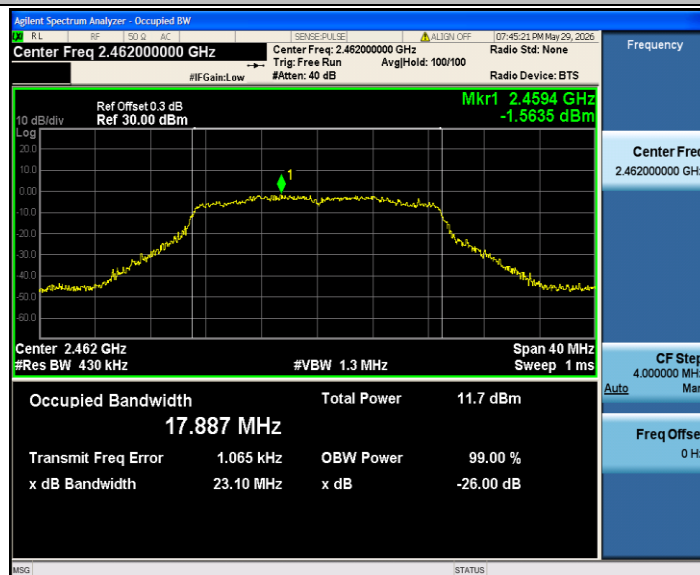
11N20SISO_Ant0_2412



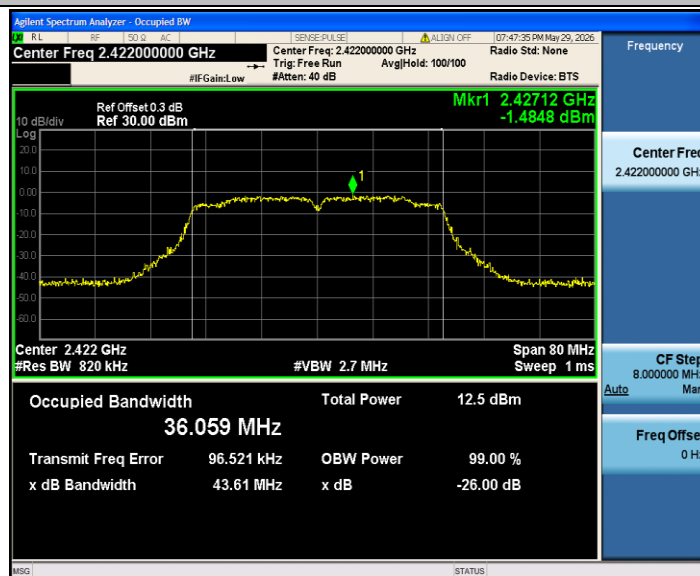
11N20SISO_Ant0_2437



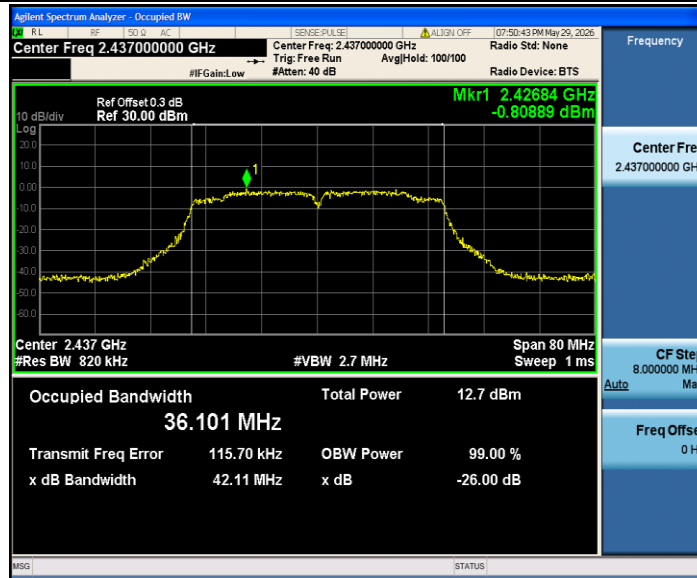
11N20SISO_Ant0_2462



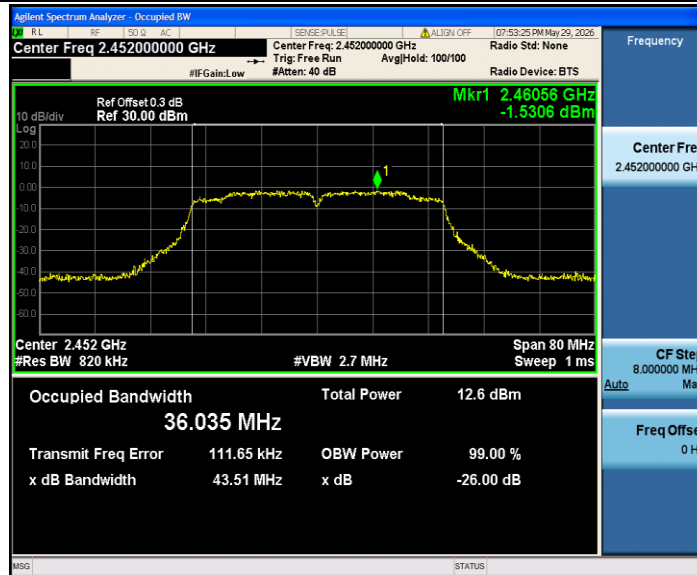
11N40SISO_Ant0_2422



11N40SISO_Ant0_2437



11N40SISO_Ant0_2452



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[M Hz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant0	2412	13.26	≤30.00	PASS
		2437	13.42	≤30.00	PASS
		2462	13.58	≤30.00	PASS
11G	Ant0	2412	12.25	≤30.00	PASS
		2437	12.57	≤30.00	PASS
		2462	12.71	≤30.00	PASS
11N20SISO	Ant0	2412	12.23	≤30.00	PASS
		2437	12.28	≤30.00	PASS
		2462	12.54	≤30.00	PASS
11N40SISO	Ant0	2422	12.53	≤30.00	PASS
		2437	12.82	≤30.00	PASS
		2452	12.77	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant0	2412	-12.47	≤8.00	PASS
		2437	-12.56	≤8.00	PASS
		2462	-12.52	≤8.00	PASS
11G	Ant0	2412	-18.50	≤8.00	PASS
		2437	-19.31	≤8.00	PASS
		2462	-18.92	≤8.00	PASS
11N20SISO	Ant0	2412	-19.07	≤8.00	PASS
		2437	-18.89	≤8.00	PASS
		2462	-19.04	≤8.00	PASS
11N40SISO	Ant0	2422	-22.06	≤8.00	PASS
		2437	-21.24	≤8.00	PASS
		2452	-20.80	≤8.00	PASS

Test Graphs

11B_Ant0_2412



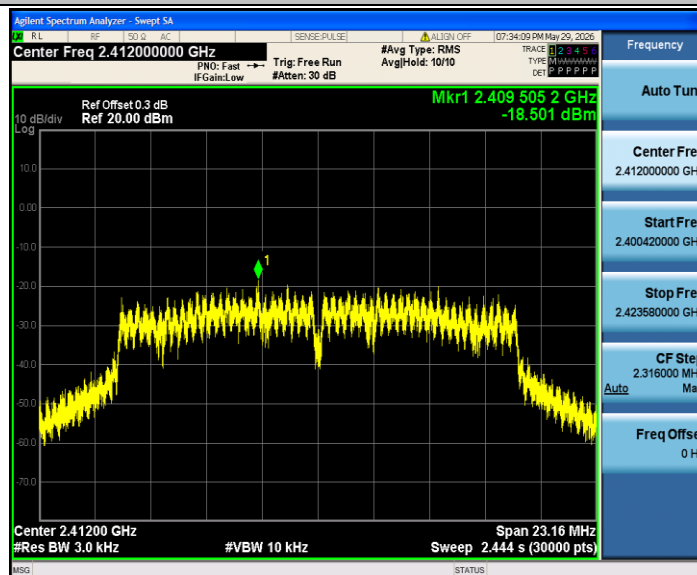
11B_Ant0_2437



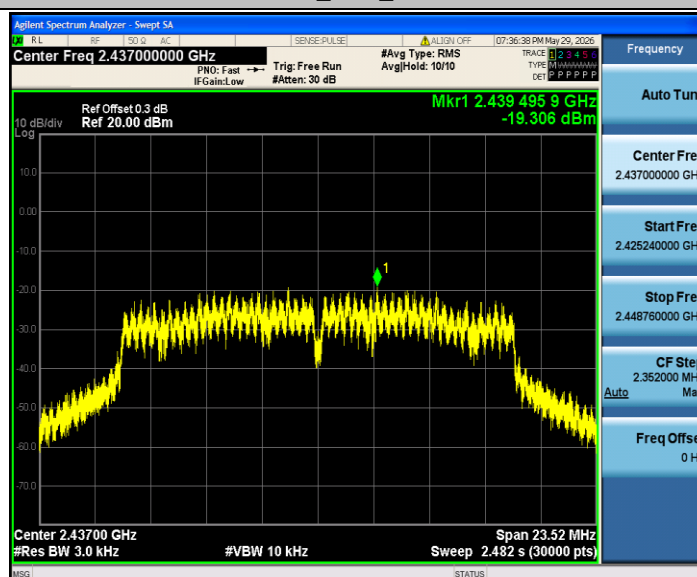
11B_Ant0_2462



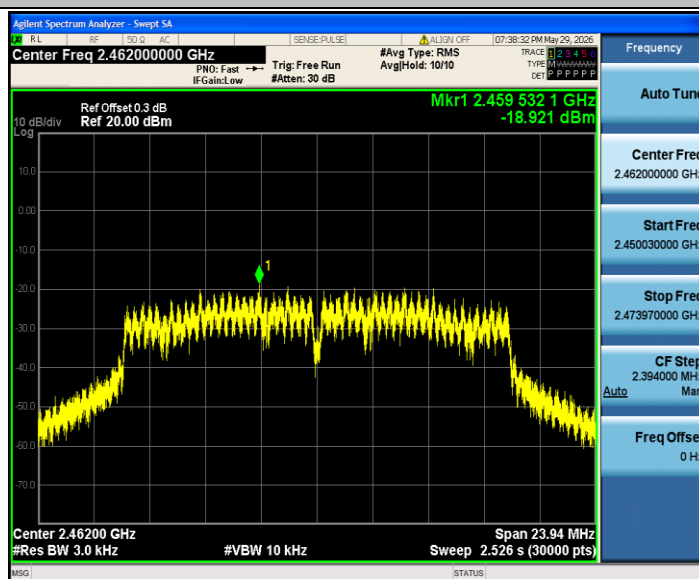
11G_Ant0_2412



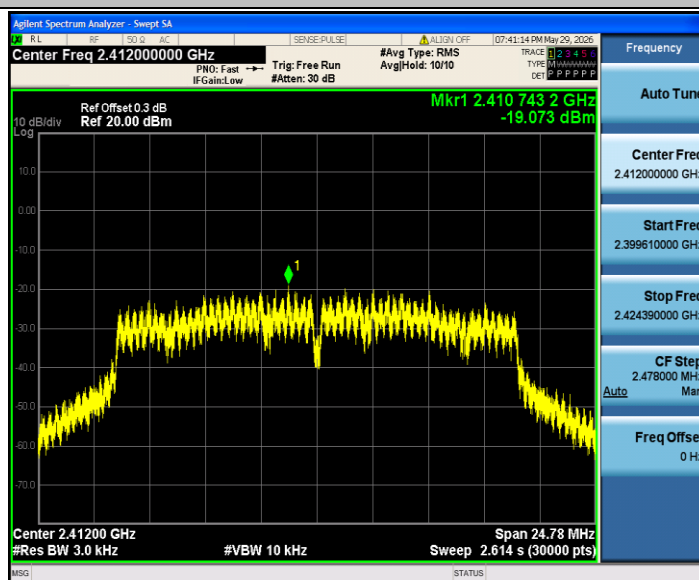
11G_Ant0_2437



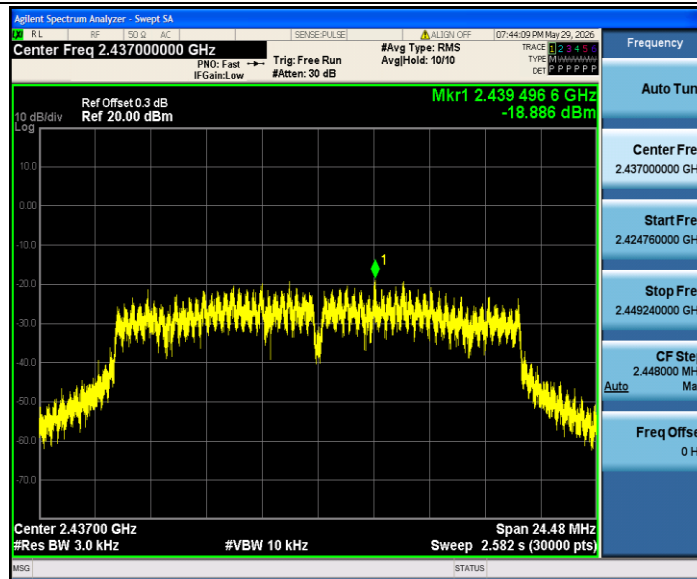
11G_Ant0_2462



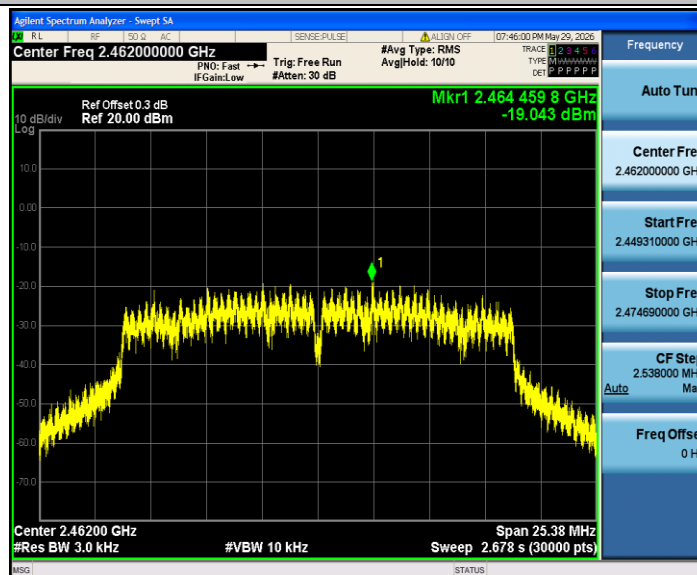
11N20SISO_Ant0_2412



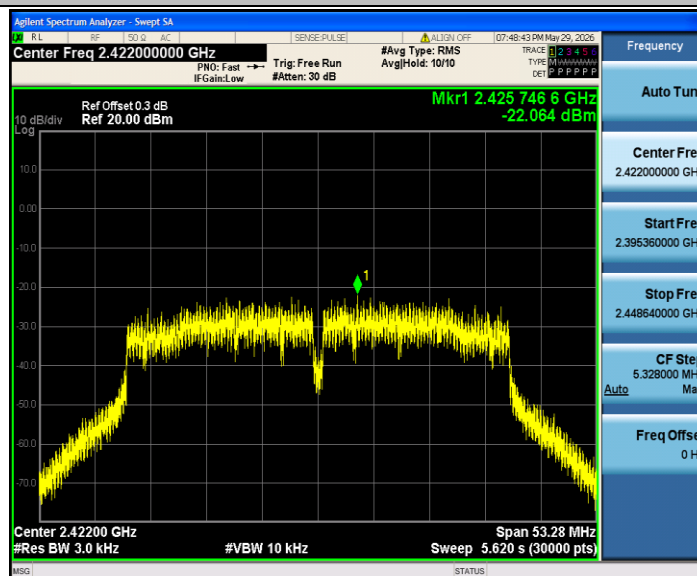
11N20SISO_Ant0_2437



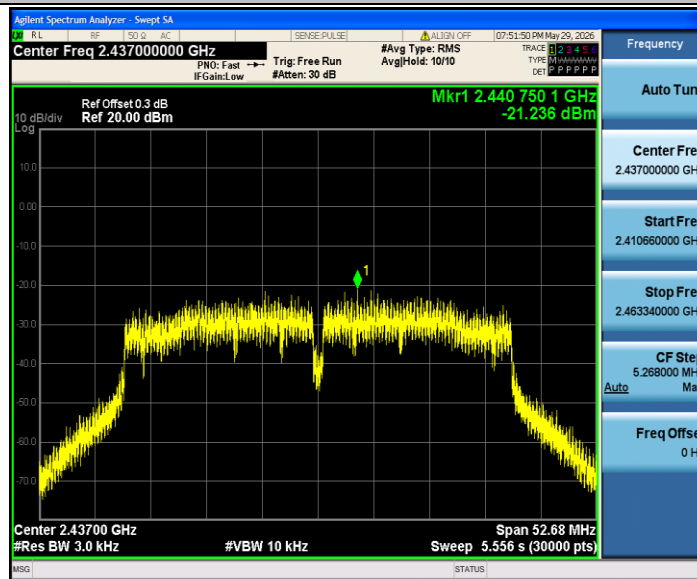
11N20SISO_Ant0_2462



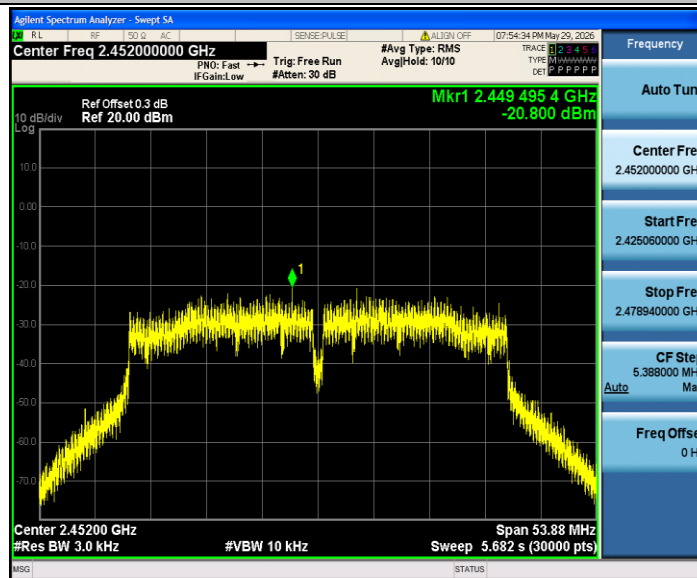
11N40SISO_Ant0_2422



11N40SISO_Ant0_2437



11N40SISO_Ant0_2452



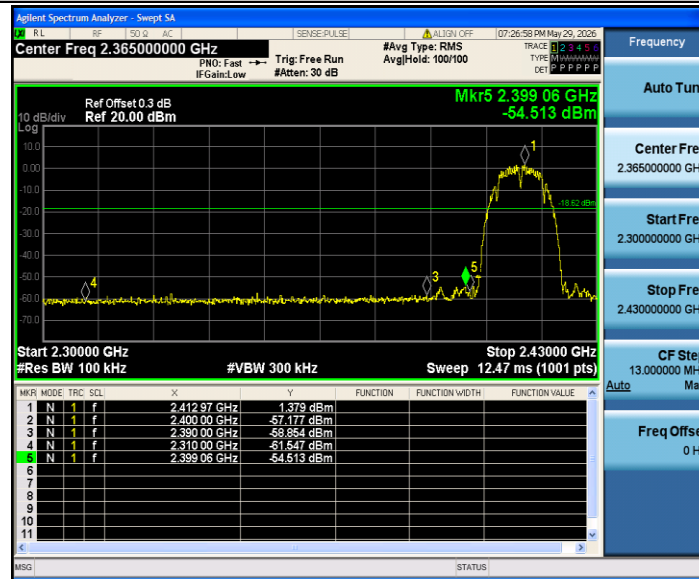
Appendix E: Band edge measurements

Test Result

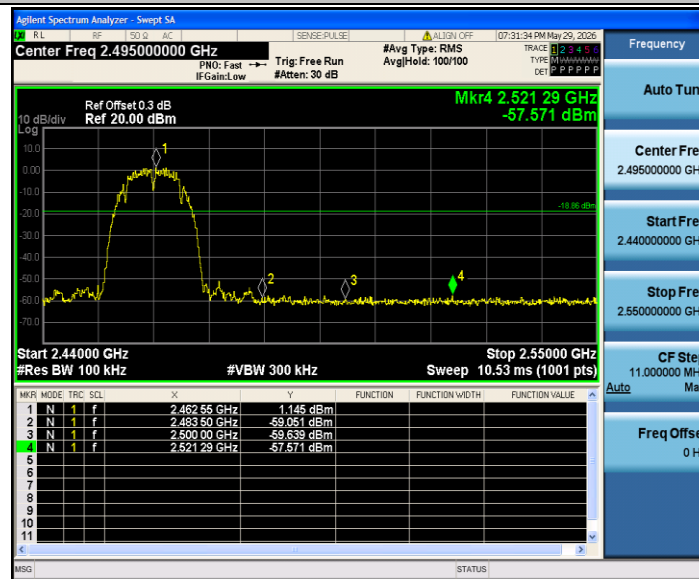
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant0	Low	2412	1.38	-54.51	≤-18.62	PASS
		High	2462	1.15	-57.57	≤-18.86	PASS
11G	Ant0	Low	2412	-4.19	-34.77	≤-24.19	PASS
		High	2462	-4.17	-57.03	≤-24.17	PASS
11N20SISO	Ant0	Low	2412	-4.04	-36.16	≤-24.04	PASS
		High	2462	-4.08	-56.88	≤-24.08	PASS
11N40SISO	Ant0	Low	2422	-7.27	-35.25	≤-27.27	PASS
		High	2452	-7.20	-57.63	≤-27.2	PASS

Test Graphs

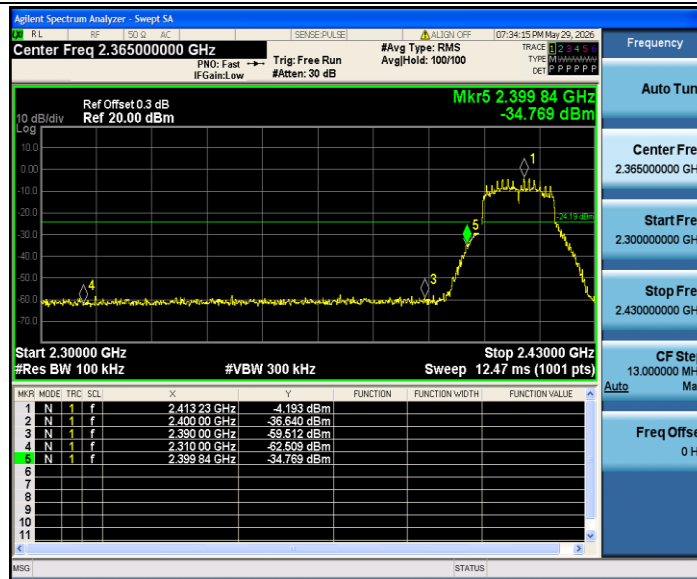
11B_Ant0_Low_2412



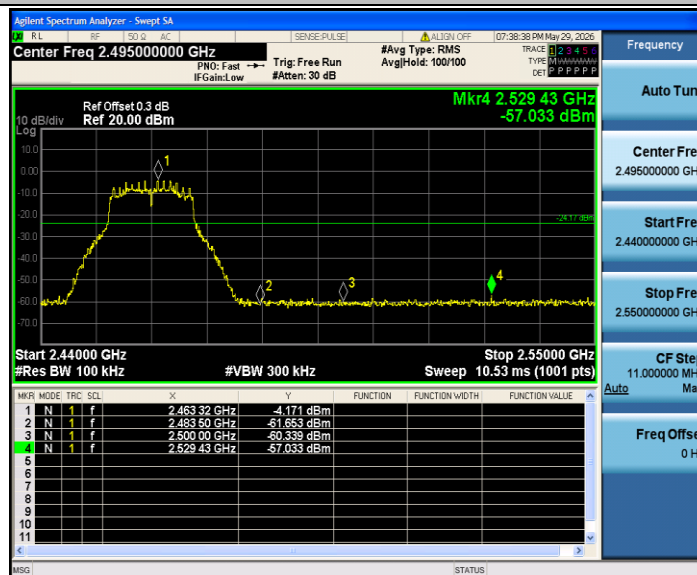
11B_Ant0_High_2462



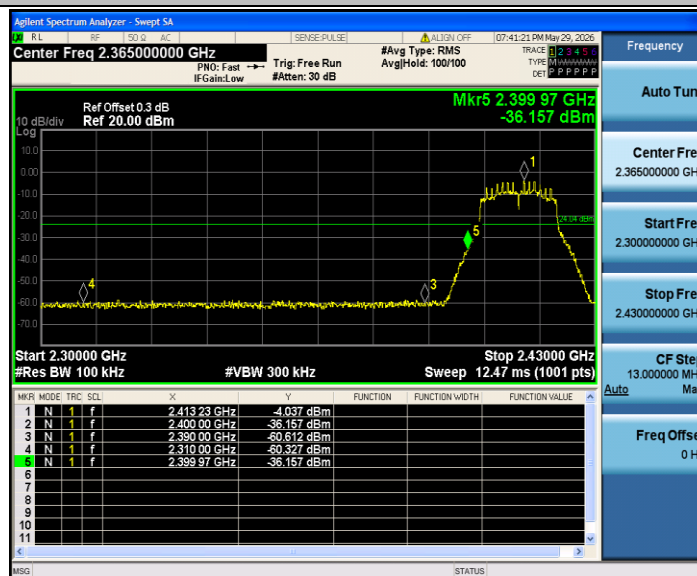
11G_Ant0_Low_2412



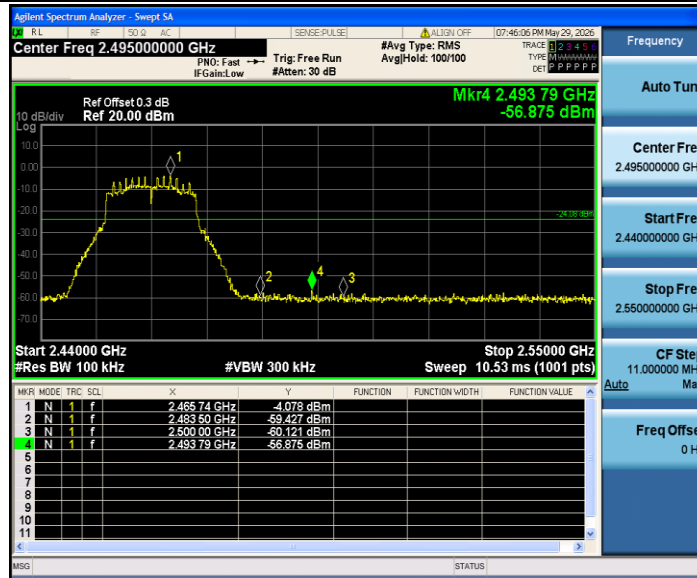
11G_Ant0_High_2462



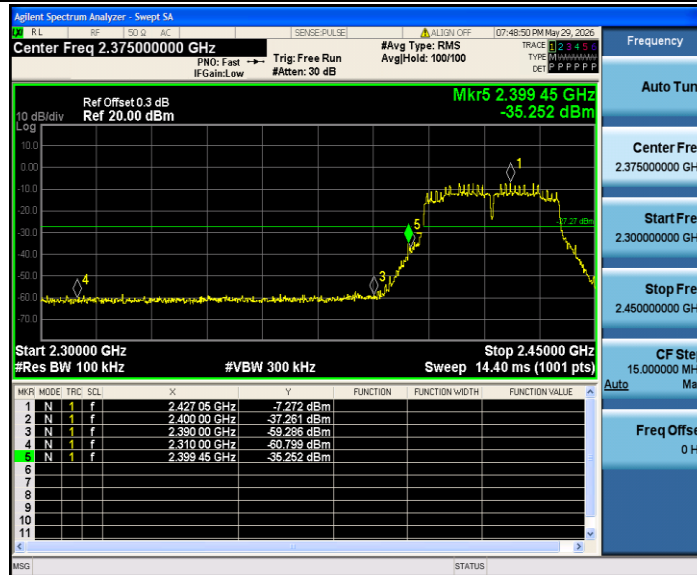
11N20SISO_Ant0_Low_2412



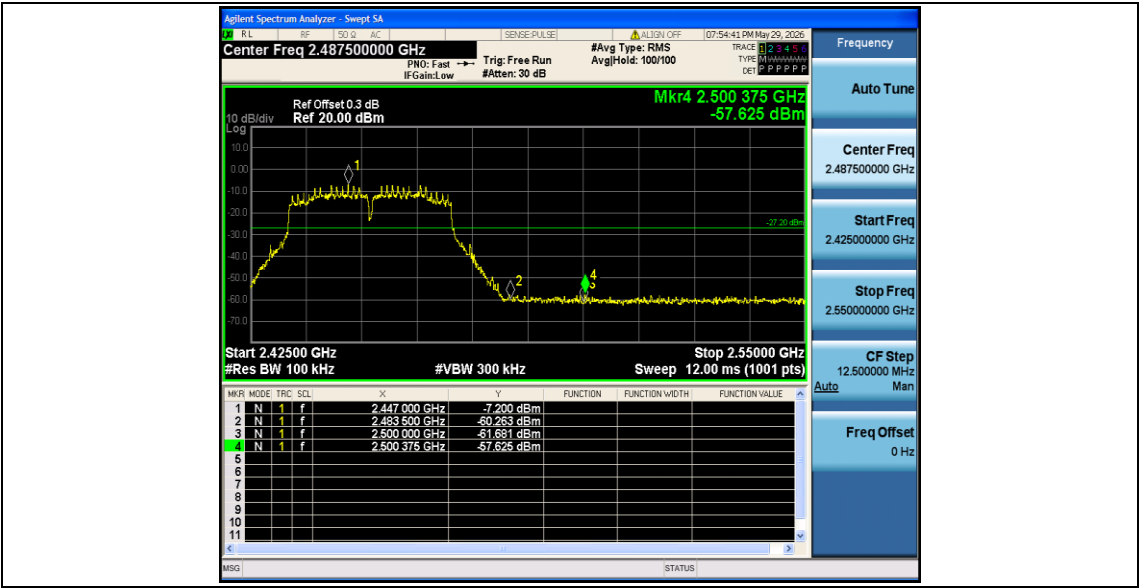
11N20SISO_Ant0_High_2462



11N40SISO_Ant0_Low_2422



11N40SISO_Ant0_High_2452



Appendix F: Conducted Spurious Emission

Test Result

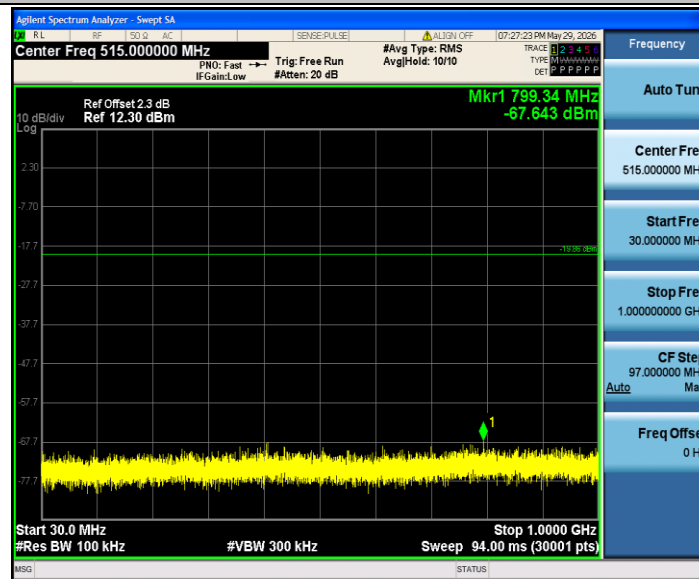
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant0	2412	Reference	0.14	0.14	---	PASS
			30~1000	0.14	-67.64	≤-19.86	PASS
			1000~26500	0.14	-55.75	≤-19.86	PASS
		2437	Reference	1.04	1.04	---	PASS
			30~1000	1.04	-68.16	≤-18.96	PASS
			1000~26500	1.04	-55.14	≤-18.96	PASS
		2462	Reference	1.59	1.59	---	PASS
			30~1000	1.59	-67.75	≤-18.41	PASS
			1000~26500	1.59	-54.7	≤-18.41	PASS
11G	Ant0	2412	Reference	-4.15	-4.15	---	PASS
			30~1000	-4.15	-68.71	≤-24.15	PASS
			1000~26500	-4.15	-55.62	≤-24.15	PASS
		2437	Reference	-4.78	-4.78	---	PASS
			30~1000	-4.78	-67.3	≤-24.78	PASS
			1000~26500	-4.78	-55.25	≤-24.78	PASS
		2462	Reference	-4.45	-4.45	---	PASS
			30~1000	-4.45	-67.62	≤-24.45	PASS
			1000~26500	-4.45	-55.79	≤-24.45	PASS
11N20SISO	Ant0	2412	Reference	-4.80	-4.80	---	PASS
			30~1000	-4.80	-67.56	≤-24.8	PASS
			1000~26500	-4.80	-55.8	≤-24.8	PASS
		2437	Reference	-4.17	-4.17	---	PASS
			30~1000	-4.17	-67.96	≤-24.17	PASS
			1000~26500	-4.17	-55.92	≤-24.17	PASS
		2462	Reference	-5.00	-5.00	---	PASS
			30~1000	-5.00	-67.44	≤-25	PASS
			1000~26500	-5.00	-54.68	≤-25	PASS
11N40SISO	Ant0	2422	Reference	-7.77	-7.77	---	PASS
			30~1000	-7.77	-67.95	≤-27.77	PASS
			1000~26500	-7.77	-55.81	≤-27.77	PASS
		2437	Reference	-8.04	-8.04	---	PASS
			30~1000	-8.04	-68.62	≤-28.04	PASS
			1000~26500	-8.04	-55.34	≤-28.04	PASS
		2452	Reference	-7.53	-7.53	---	PASS
			30~1000	-7.53	-68.13	≤-27.53	PASS
			1000~26500	-7.53	-54.54	≤-27.53	PASS

Test Graphs

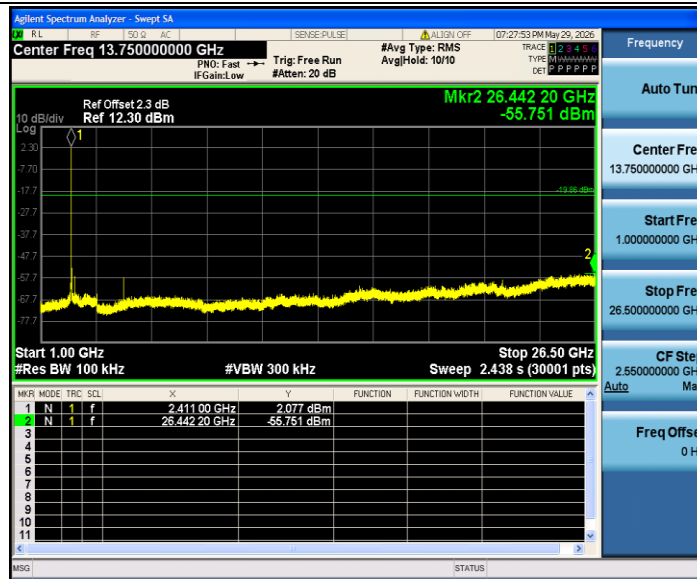
11B_Ant0_2412_0~Reference



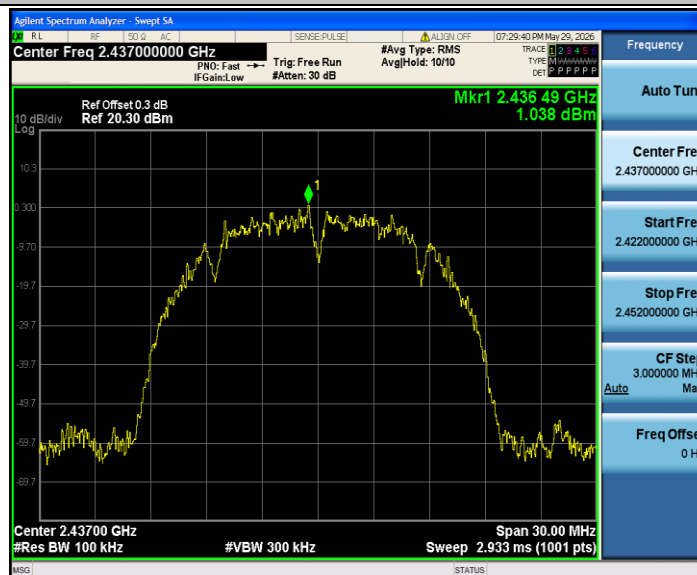
11B_Ant0_2412_30~1000



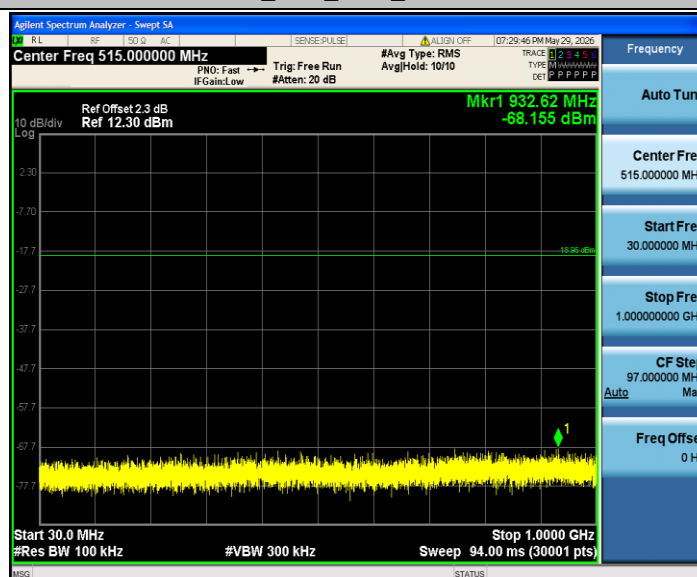
11B_Ant0_2412_1000~26500



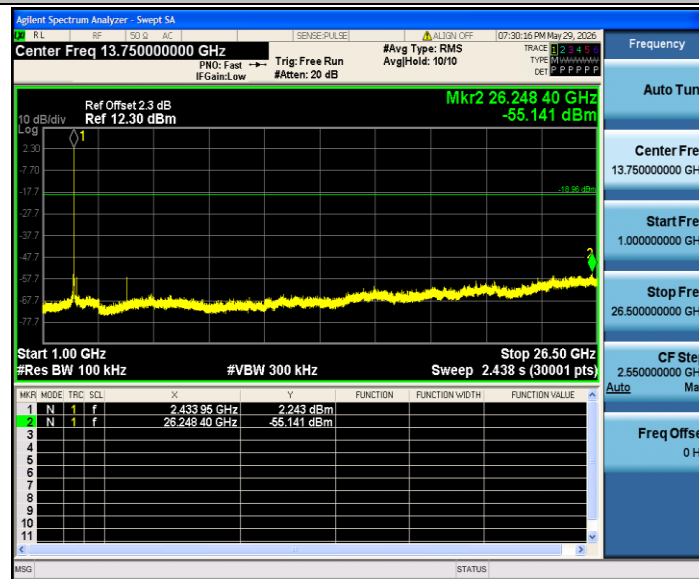
11B_Ant0_2437_0~Reference



11B_Ant0_2437_30~1000



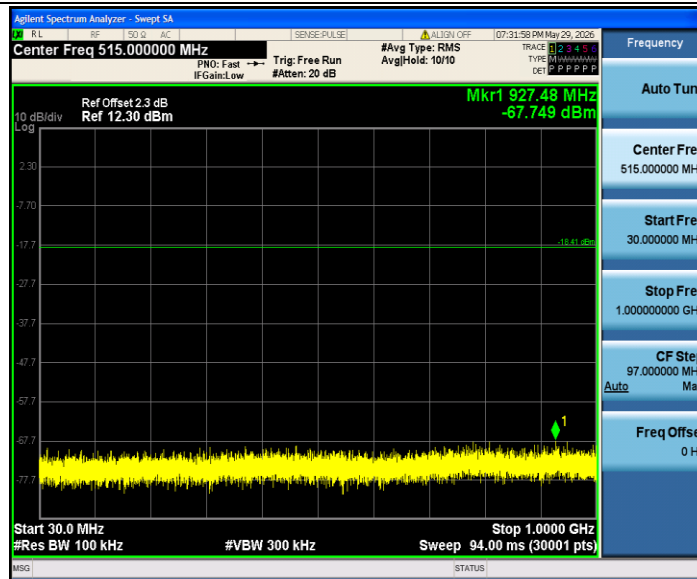
11B_Ant0_2437_1000~26500



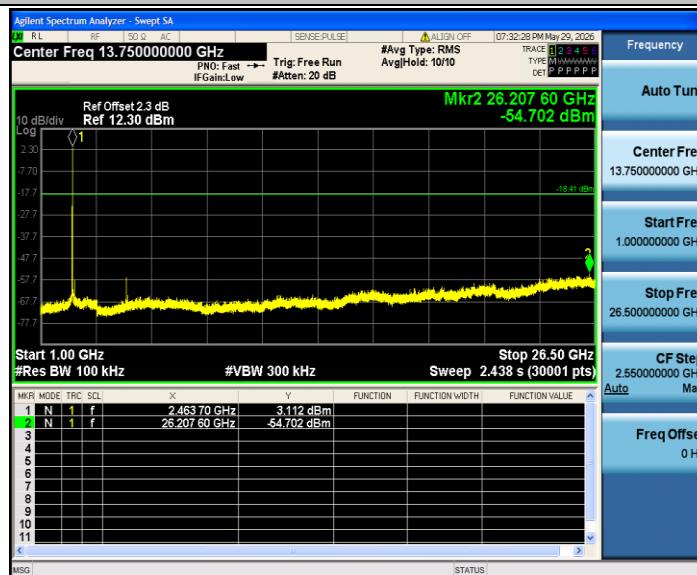
11B_Ant0_2462_0~Reference



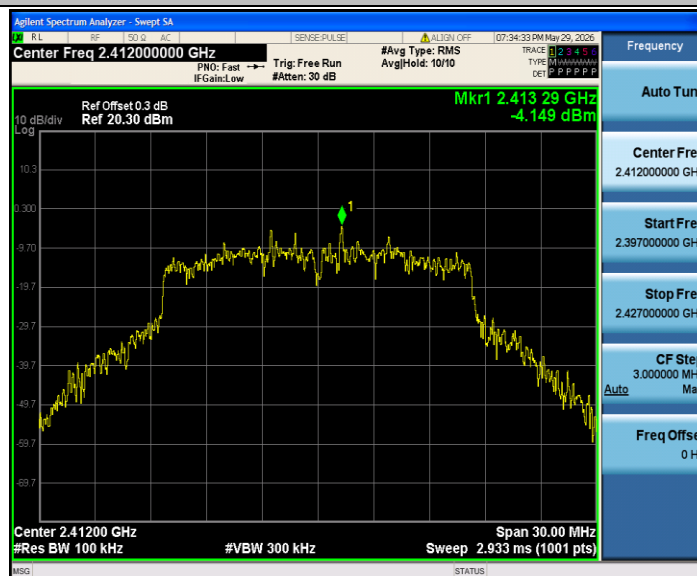
11B_Ant0_2462_30~1000



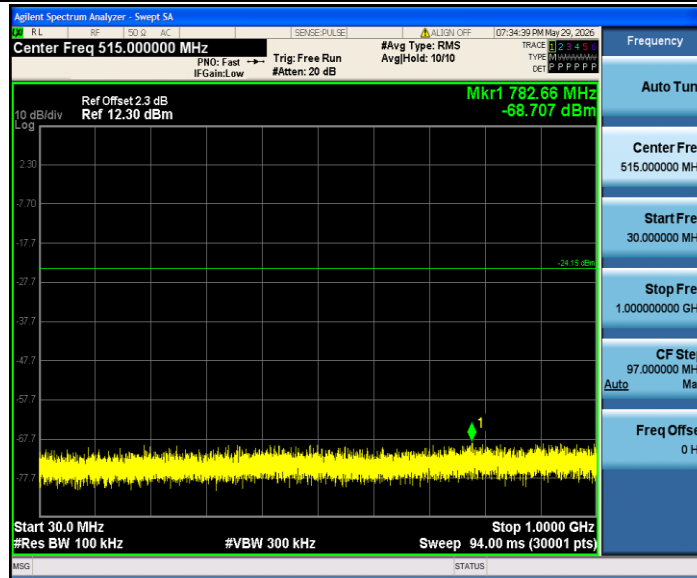
11B_Ant0_2462_1000~26500



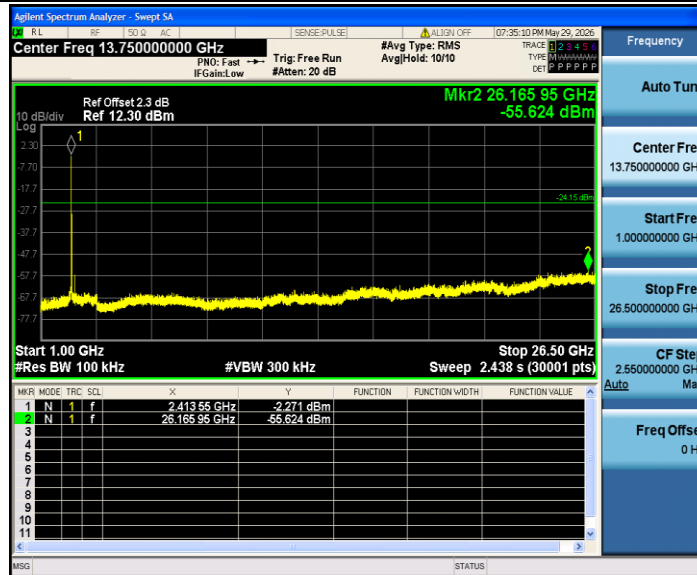
11G_Ant0_2412_0~Reference



11G_Ant0_2412_30~1000



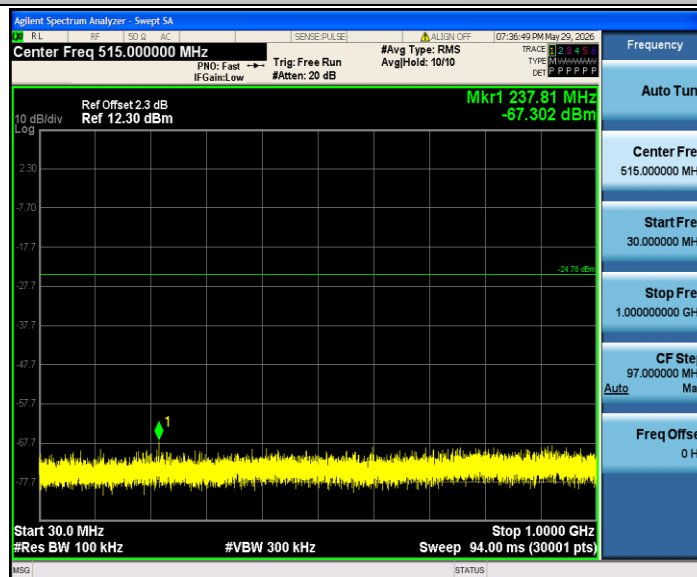
11G_Ant0_2412_1000~26500



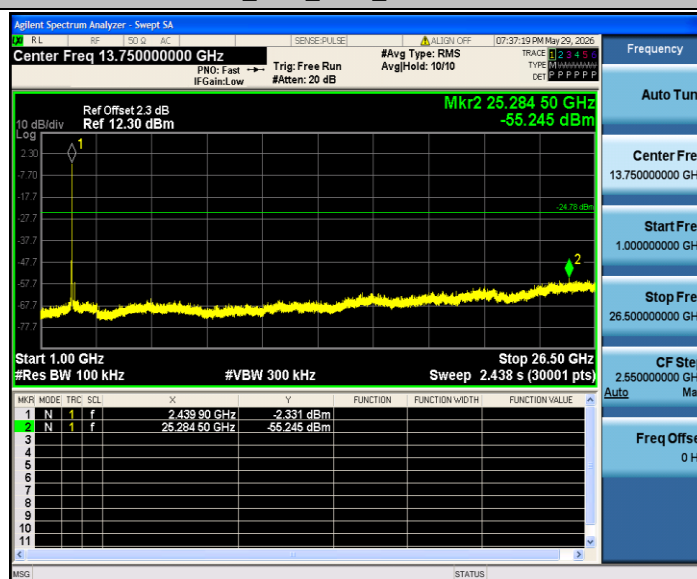
11G_Ant0_2437_0~Reference



11G_Ant0_2437_30~1000



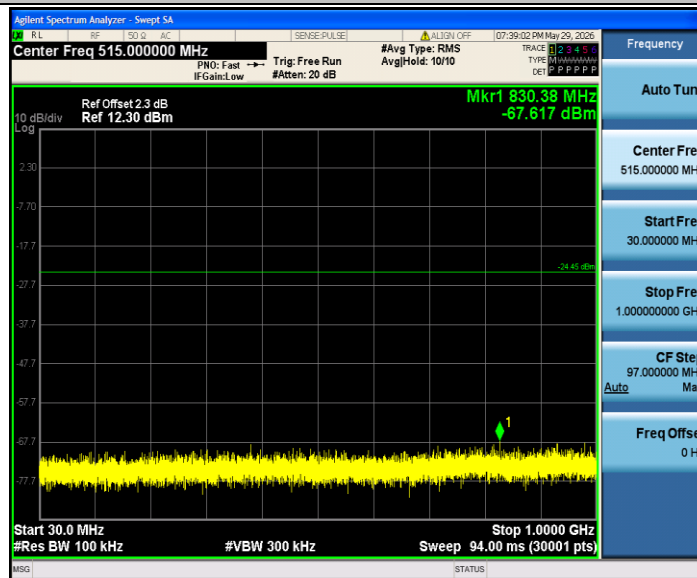
11G_Ant0_2437_1000~26500



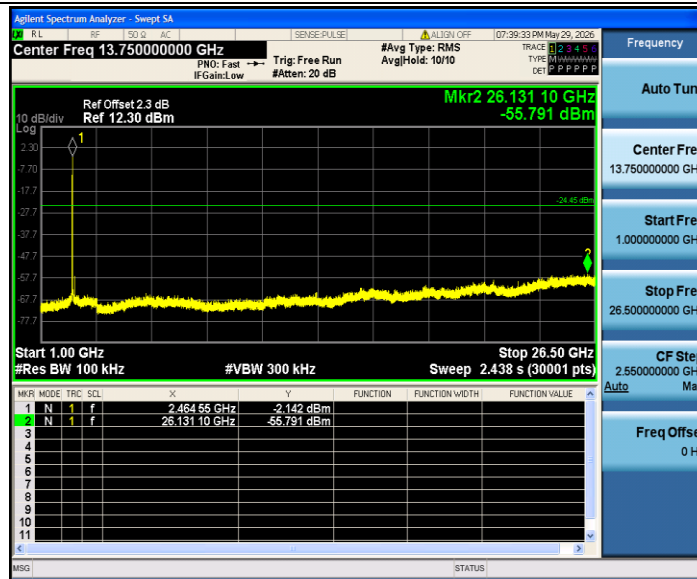
11G_Ant0_2462_0~Reference



11G_Ant0_2462_30~1000



11G_Ant0_2462_1000~26500



11N20SISO_Ant0_2412_0~Reference



11N20SISO_Ant0_2412_30~1000

