

FCC Appendix RF Test Data

FCC ID : 2BPZJ-ZQA-6000

Company: : Ningbo Zhiqi Smart Appliance Co., Ltd.

EUT : air purifier

Model Number : ZQA-6000

Report No. : CTA25051302201

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	9.560	2407.000	2416.560	0.5	PASS
		2437	8.480	2433.080	2441.560	0.5	PASS
		2462	9.520	2457.040	2466.560	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	0.5	PASS
		2437	15.720	2429.440	2445.160	0.5	PASS
		2462	16.320	2453.880	2470.200	0.5	PASS
11N20SISO	Ant1	2412	16.160	2404.440	2420.600	0.5	PASS
		2437	15.560	2429.440	2445.000	0.5	PASS
		2462	16.960	2453.680	2470.640	0.5	PASS
11N40SISO	Ant1	2422	35.600	2404.480	2440.080	0.5	PASS
		2437	35.040	2419.480	2454.520	0.5	PASS
		2452	35.360	2434.240	2469.600	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437

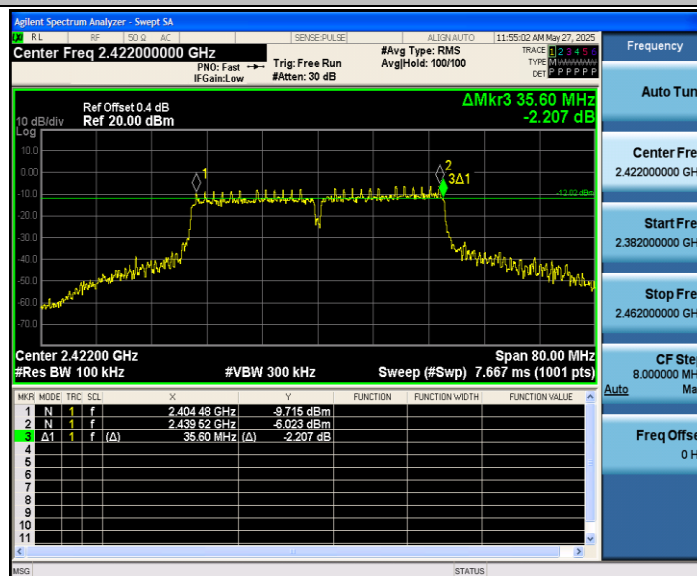




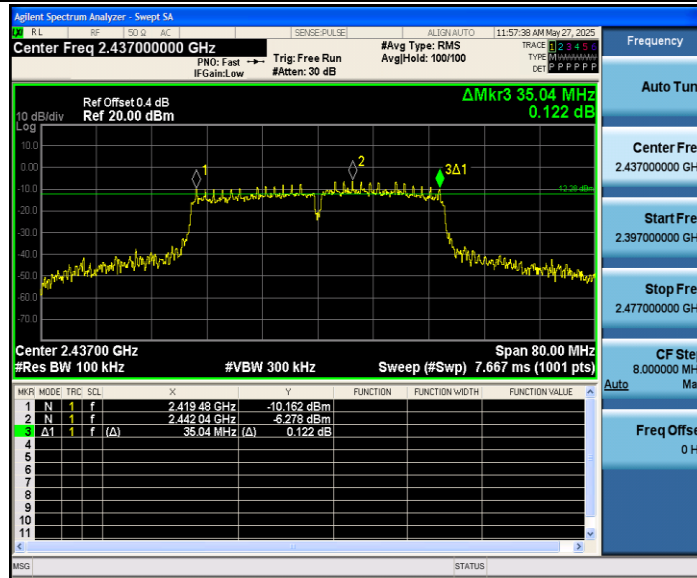
11N20SISO_Ant1_2462



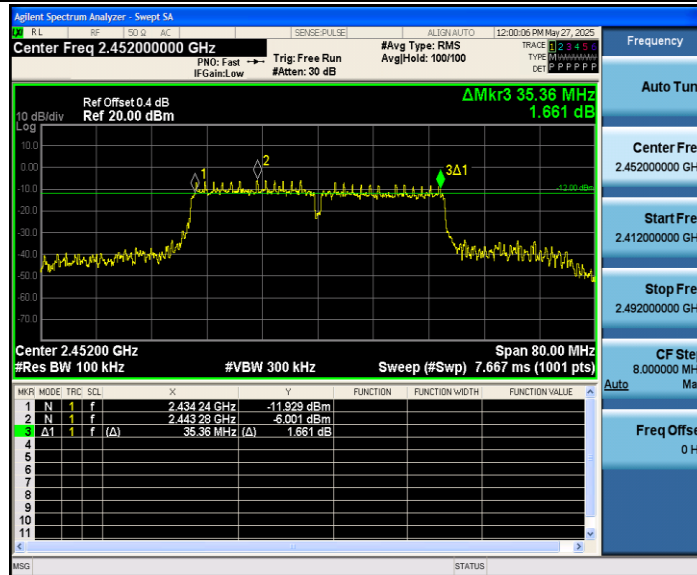
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



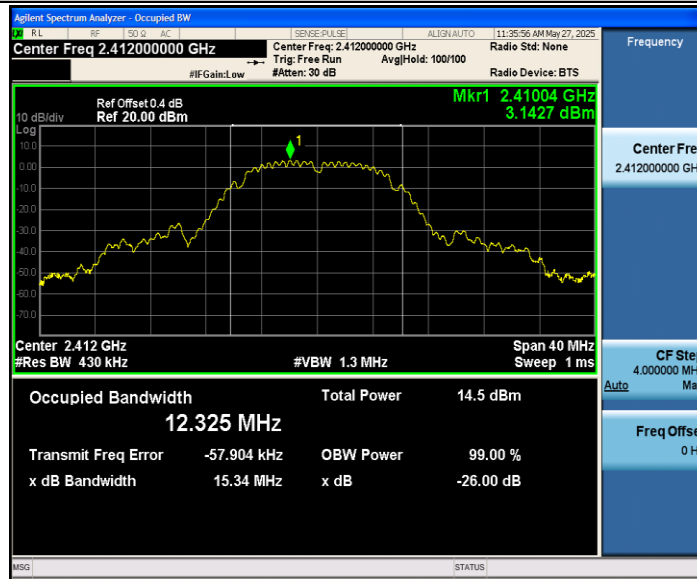
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.325	2405.7796	2418.1046	---	---
		2437	12.286	2431.1063	2443.3923	---	---
		2462	12.885	2455.3607	2468.2457	---	---
11G	Ant1	2412	16.752	2403.7740	2420.5260	---	---
		2437	16.650	2428.7870	2445.4370	---	---
		2462	16.839	2453.6814	2470.5204	---	---
11N20SISO	Ant1	2412	17.929	2403.2307	2421.1597	---	---
		2437	17.653	2428.2800	2445.9330	---	---
		2462	17.986	2453.1431	2471.1291	---	---
11N40SISO	Ant1	2422	36.312	2404.0979	2440.4099	---	---
		2437	35.983	2419.0618	2455.0448	---	---
		2452	36.412	2433.8826	2470.2946	---	---

Test Graphs

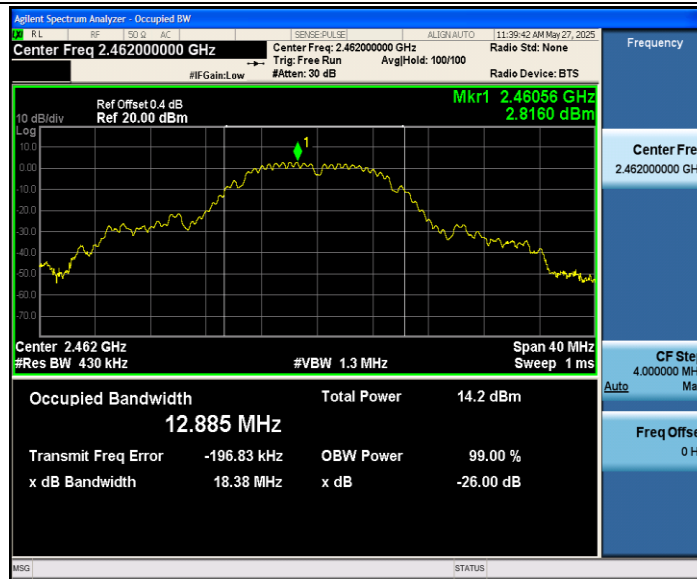
11B_Ant1_2412



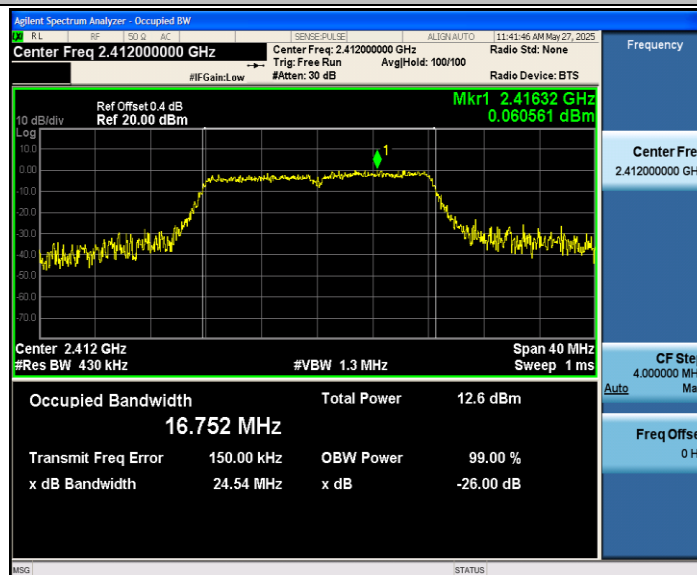
11B_Ant1_2437



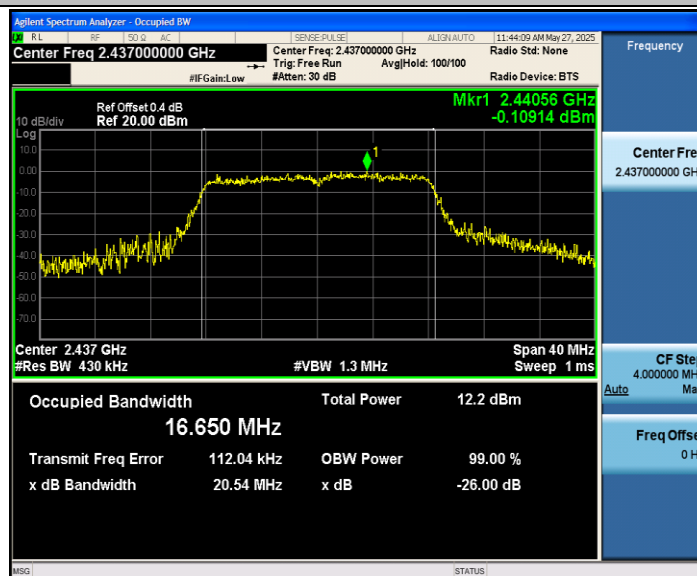
11B_Ant1_2462



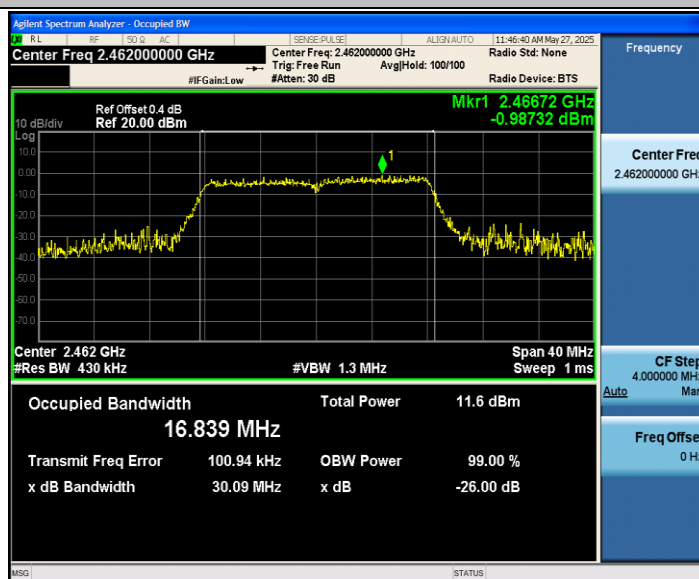
11G_Ant1_2412



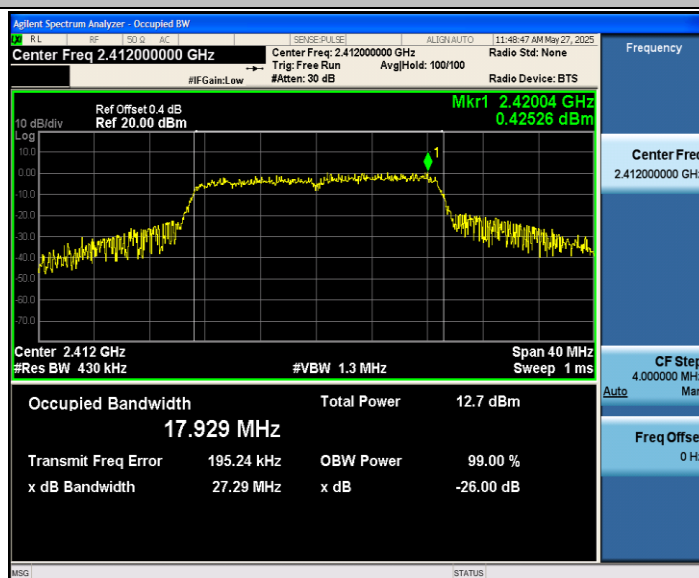
11G_Ant1_2437



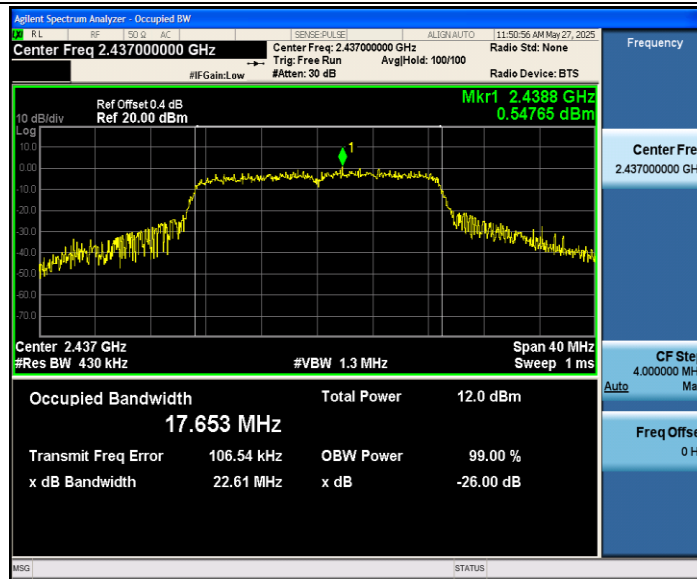
11G_Ant1_2462



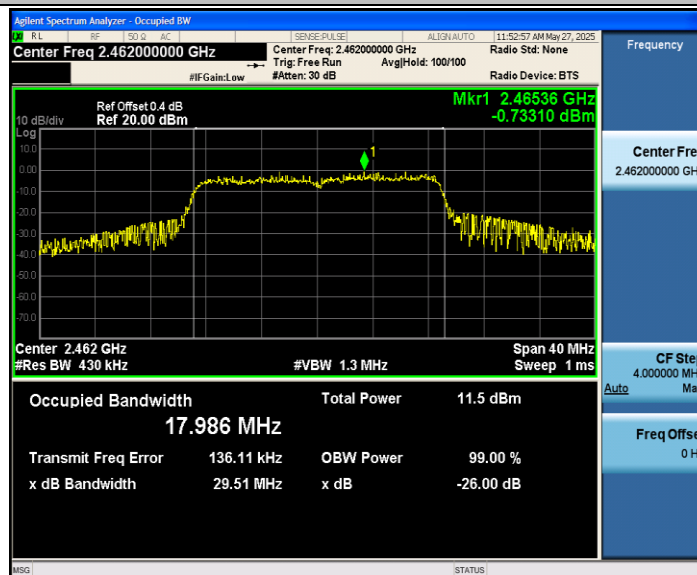
11N20SISO_Ant1_2412



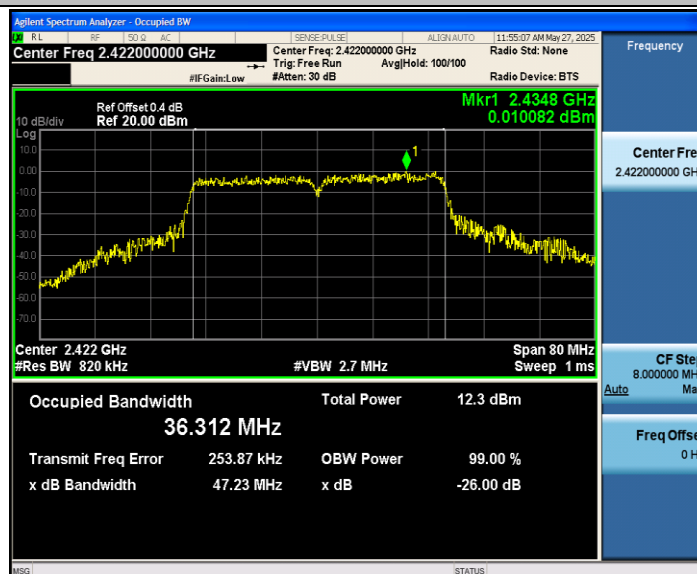
11N20SISO_Ant1_2437



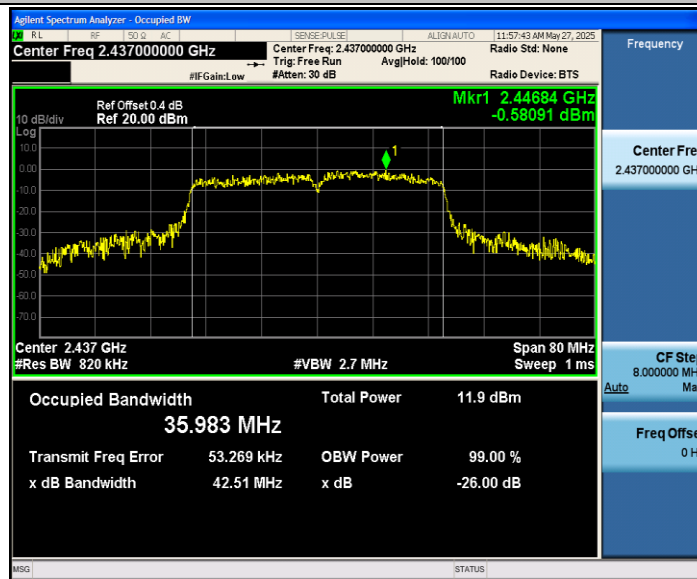
11N20SISO_Ant1_2462



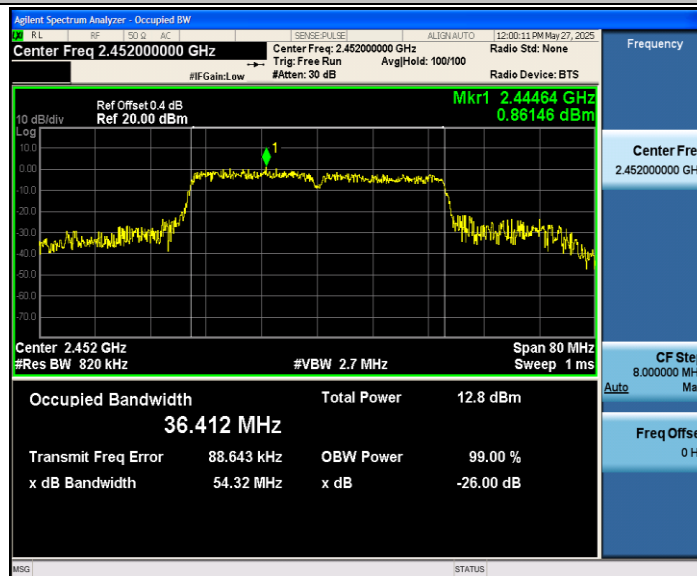
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.46	≤30.00	PASS
		2437	14.46	≤30.00	PASS
		2462	14.02	≤30.00	PASS
11G	Ant1	2412	13.27	≤30.00	PASS
		2437	12.85	≤30.00	PASS
		2462	12.25	≤30.00	PASS
11N20SISO	Ant1	2412	13.10	≤30.00	PASS
		2437	12.48	≤30.00	PASS
		2462	12.16	≤30.00	PASS
11N40SISO	Ant1	2422	12.38	≤30.00	PASS
		2437	11.92	≤30.00	PASS
		2452	12.93	≤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	-11.17	≤8.00	PASS
		2437	-11.03	≤8.00	PASS
		2462	-11.42	≤8.00	PASS
11G	Ant1	2412	-18.30	≤8.00	PASS
		2437	-18.75	≤8.00	PASS
		2462	-19.41	≤8.00	PASS
11N20SISO	Ant1	2412	-17.81	≤8.00	PASS
		2437	-18.22	≤8.00	PASS
		2462	-18.89	≤8.00	PASS
11N40SISO	Ant1	2422	-21.89	≤8.00	PASS
		2437	-22.59	≤8.00	PASS
		2452	-21.53	≤8.00	PASS

Test Graphs

11B_Ant1_2412



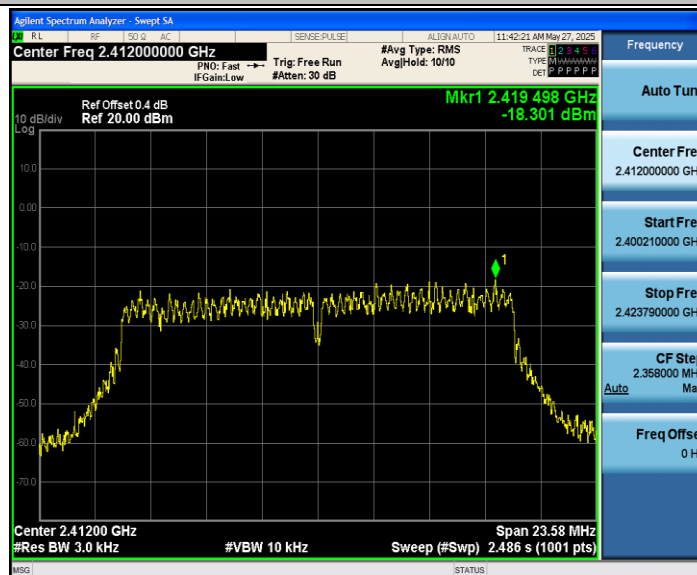
11B_Ant1_2437



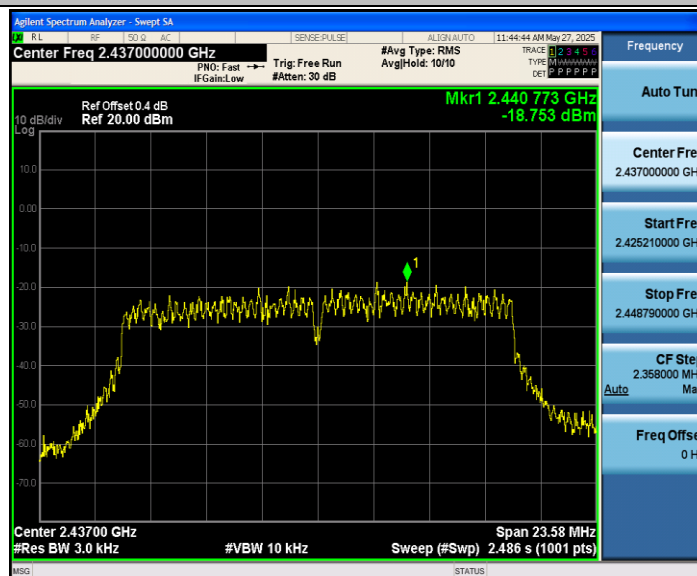
11B_Ant1_2462



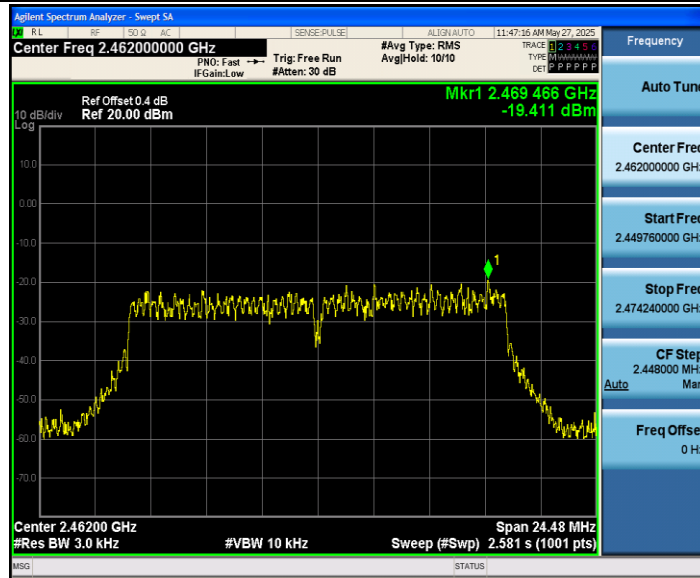
11G_Ant1_2412



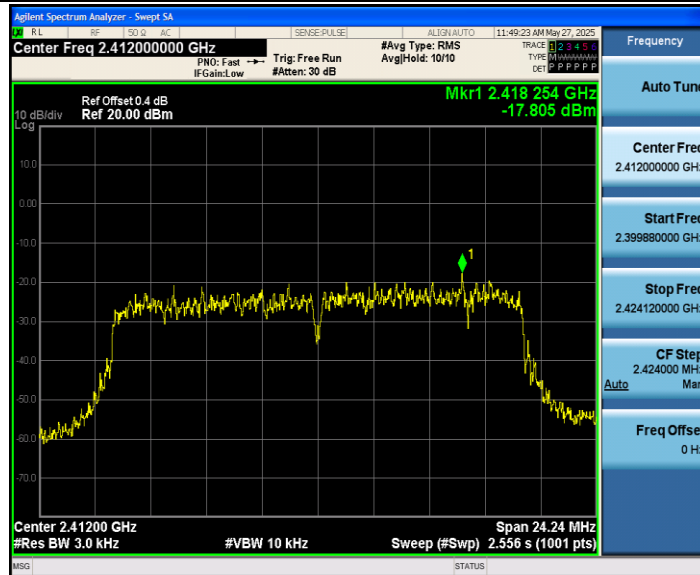
11G_Ant1_2437



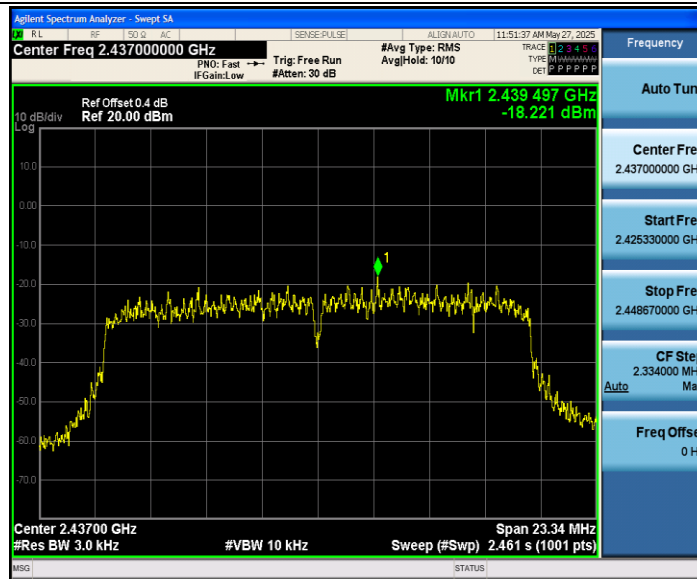
11G_Ant1_2462



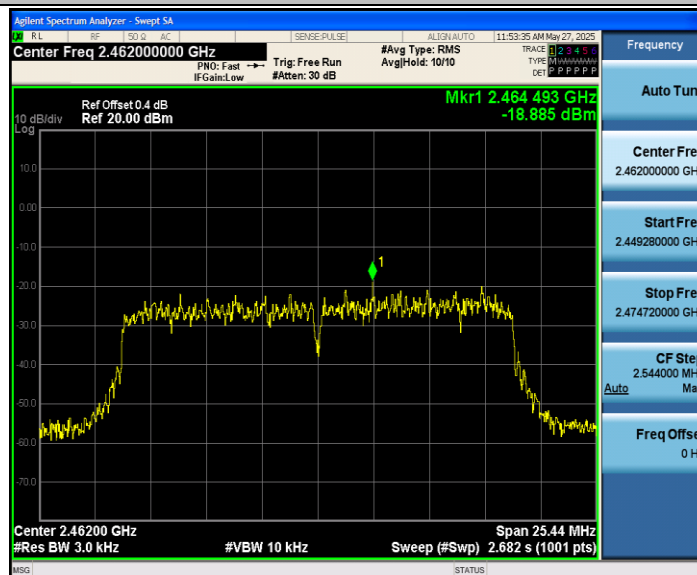
11N20SISO_Ant1_2412



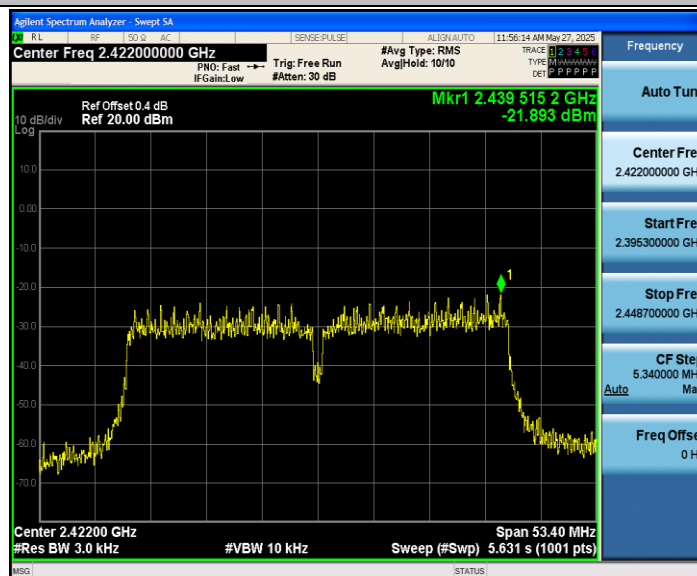
11N20SISO_Ant1_2437



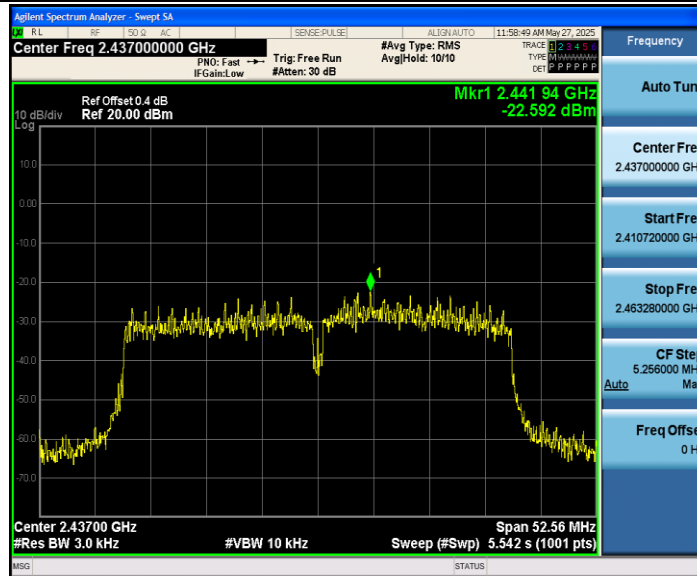
11N20SISO_Ant1_2462



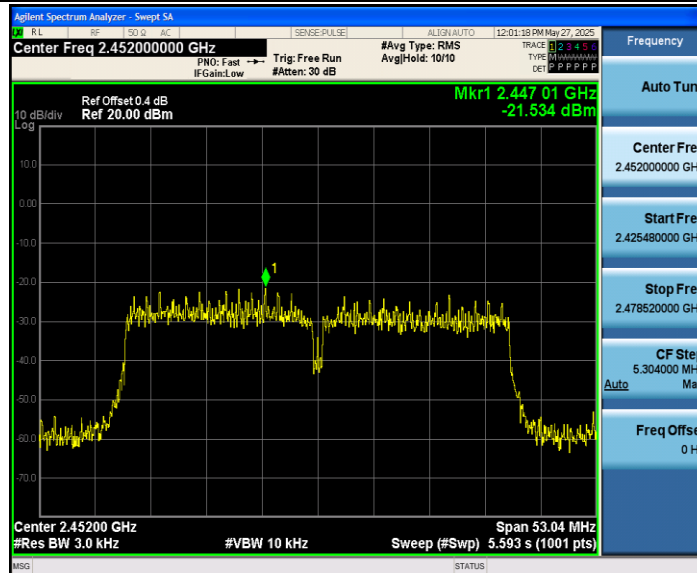
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



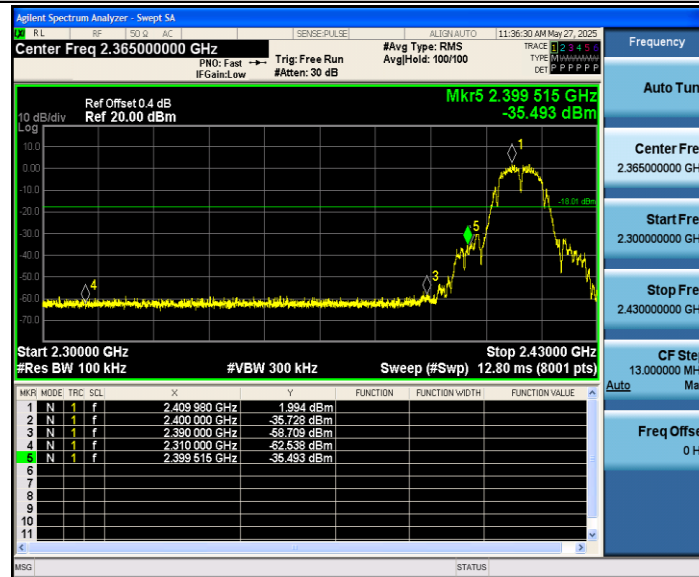
Appendix E: Band edge measurements

Test Result

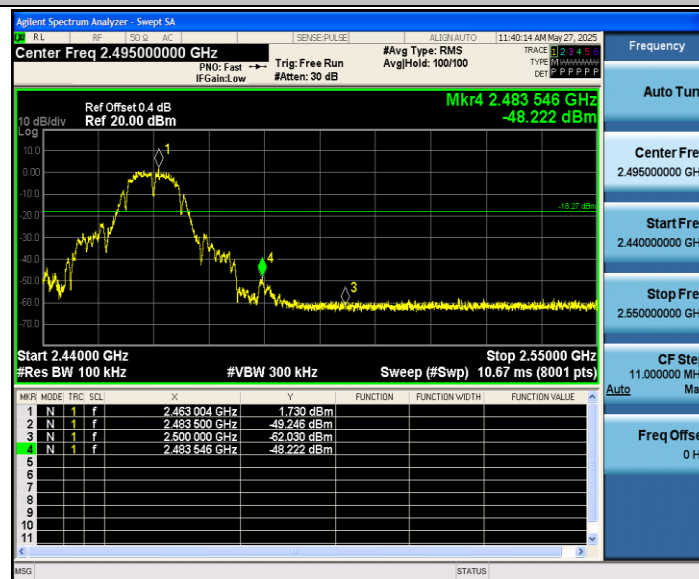
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.99	-35.49	≤-18.01	PASS
		High	2462	1.73	-48.22	≤-18.27	PASS
11G	Ant1	Low	2412	-2.38	-36.49	≤-22.38	PASS
		High	2462	-3.86	-41.17	≤-23.86	PASS
11N20SISO	Ant1	Low	2412	-2.44	-36.02	≤-22.44	PASS
		High	2462	-3.79	-39.88	≤-23.79	PASS
11N40SISO	Ant1	Low	2422	-6.04	-38.63	≤-26.04	PASS
		High	2452	-6.00	-36.56	≤-26	PASS

Test Graphs

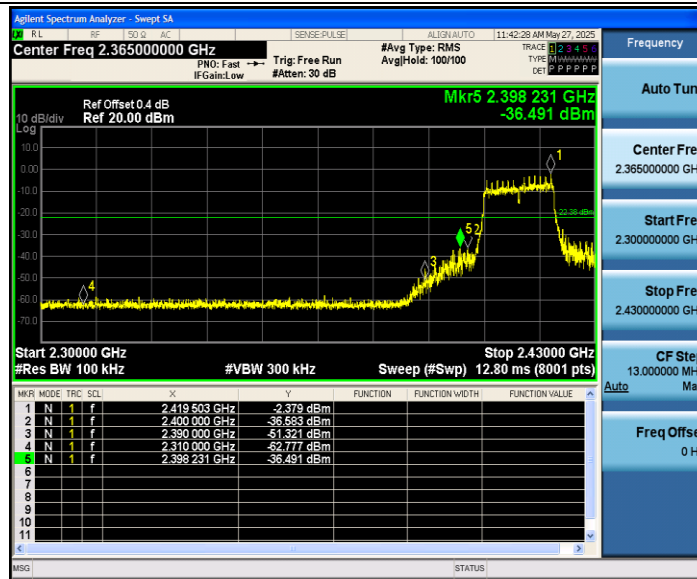
11B_Ant1_Low_2412



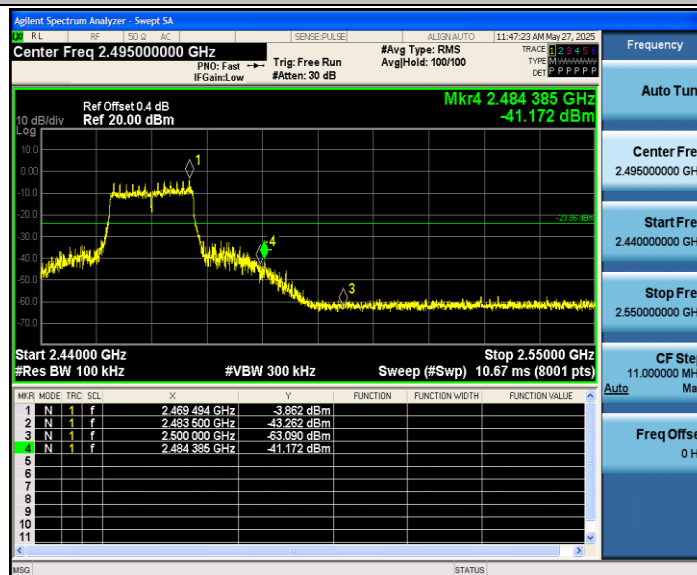
11B_Ant1_High_2462



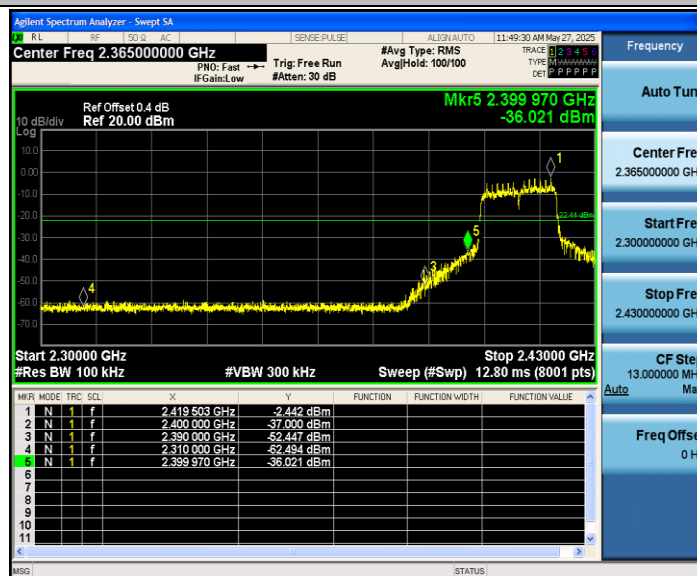
11G_Ant1_Low_2412



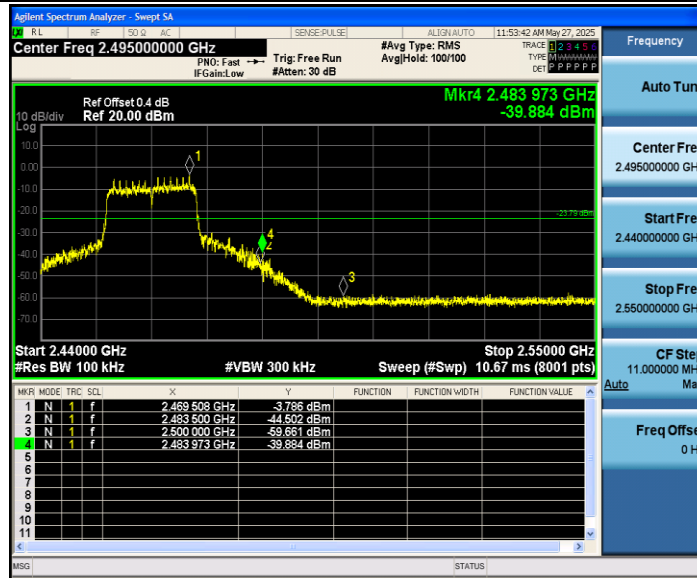
11G_Ant1_High_2462



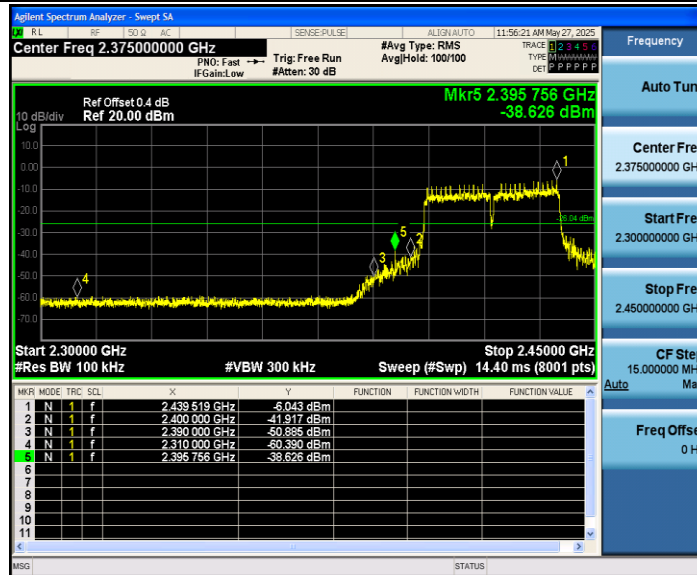
11N20SISO_Ant1_Low_2412



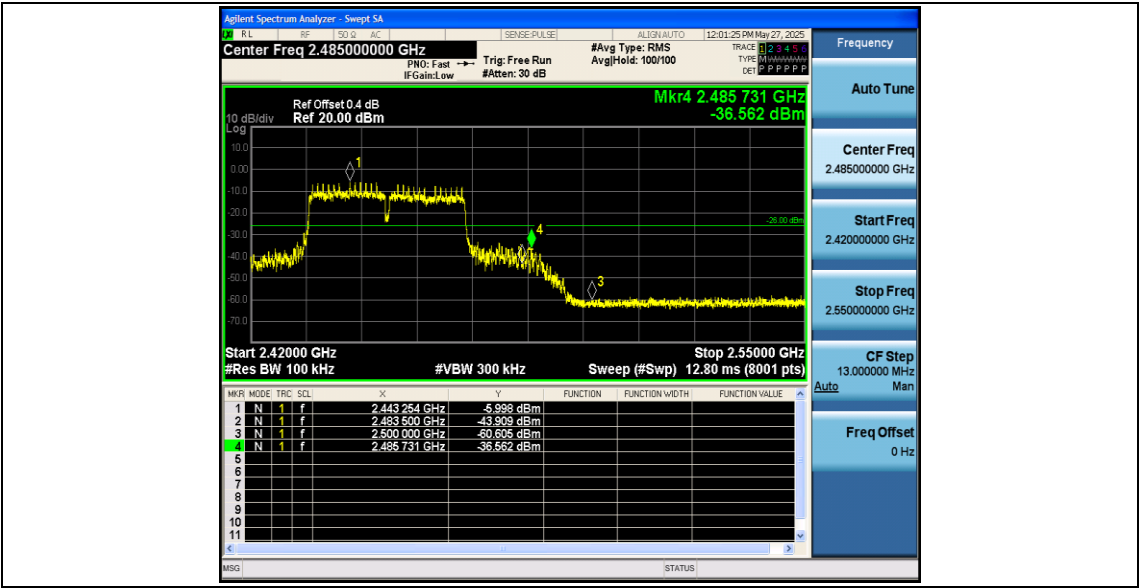
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

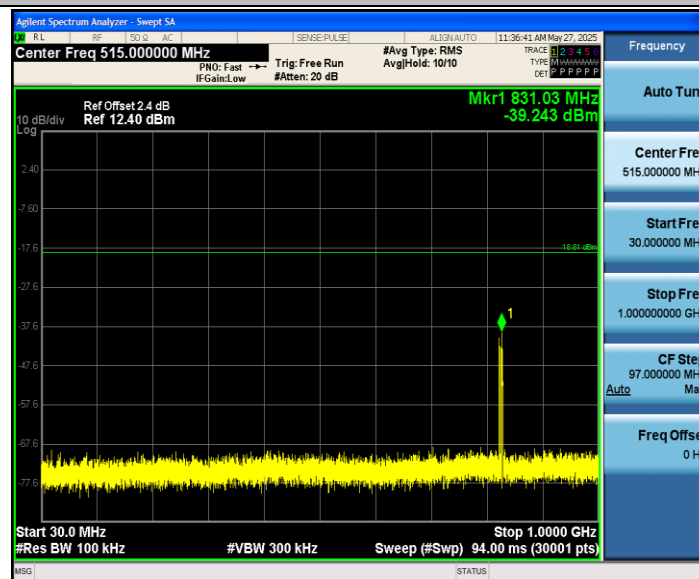
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	1.19	1.19	---	PASS
			30~1000	1.19	-39.24	≤-18.81	PASS
			1000~26500	1.19	-38.15	≤-18.81	PASS
		2437	Reference	1.51	1.51	---	PASS
			30~1000	1.51	-68.01	≤-18.49	PASS
			1000~26500	1.51	-36.1	≤-18.49	PASS
		2462	Reference	0.45	0.45	---	PASS
			30~1000	0.45	-67.39	≤-19.55	PASS
			1000~26500	0.45	-30.12	≤-19.55	PASS
11G	Ant1	2412	Reference	-3.48	-3.48	---	PASS
			30~1000	-3.48	-67.8	≤-23.48	PASS
			1000~26500	-3.48	-48.12	≤-23.48	PASS
		2437	Reference	-3.38	-3.38	---	PASS
			30~1000	-3.38	-55.5	≤-23.38	PASS
			1000~26500	-3.38	-51.23	≤-23.38	PASS
		2462	Reference	-4.47	-4.47	---	PASS
			30~1000	-4.47	-28.41	≤-24.47	PASS
			1000~26500	-4.47	-43.84	≤-24.47	PASS
11N20SISO	Ant1	2412	Reference	-3.77	-3.77	---	PASS
			30~1000	-3.77	-66.56	≤-23.77	PASS
			1000~26500	-3.77	-47.81	≤-23.77	PASS
		2437	Reference	-4.02	-4.02	---	PASS
			30~1000	-4.02	-66.78	≤-24.02	PASS
			1000~26500	-4.02	-49.11	≤-24.02	PASS
		2462	Reference	-3.72	-3.72	---	PASS
			30~1000	-3.72	-62.84	≤-23.72	PASS
			1000~26500	-3.72	-46.02	≤-23.72	PASS
11N40SISO	Ant1	2422	Reference	-6.13	-6.13	---	PASS
			30~1000	-6.13	-64.84	≤-26.13	PASS
			1000~26500	-6.13	-53.66	≤-26.13	PASS
		2437	Reference	-7.02	-7.02	---	PASS
			30~1000	-7.02	-66.14	≤-27.02	PASS
			1000~26500	-7.02	-54.77	≤-27.02	PASS
		2452	Reference	-6.68	-6.68	---	PASS
			30~1000	-6.68	-61.01	≤-26.68	PASS
			1000~26500	-6.68	-48.83	≤-26.68	PASS

Test Graphs

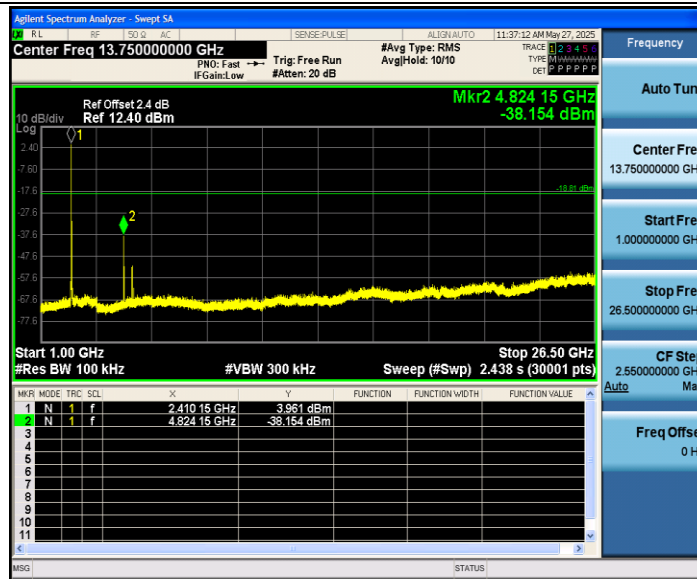
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



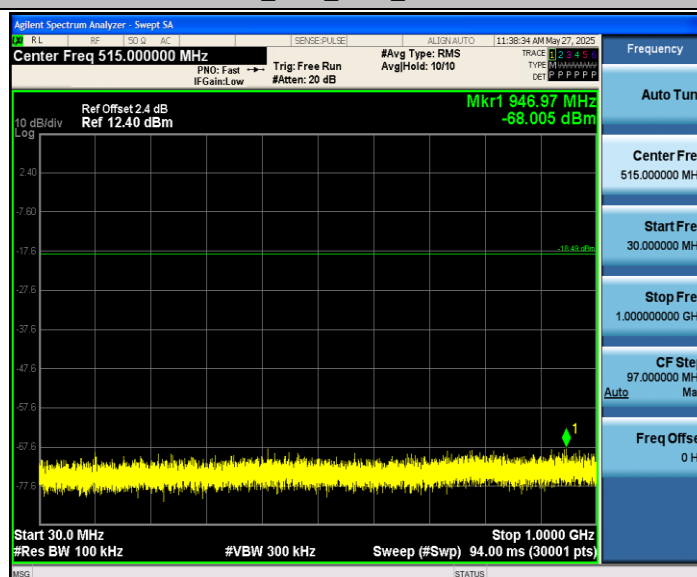
11B_Ant1_2412_1000~26500



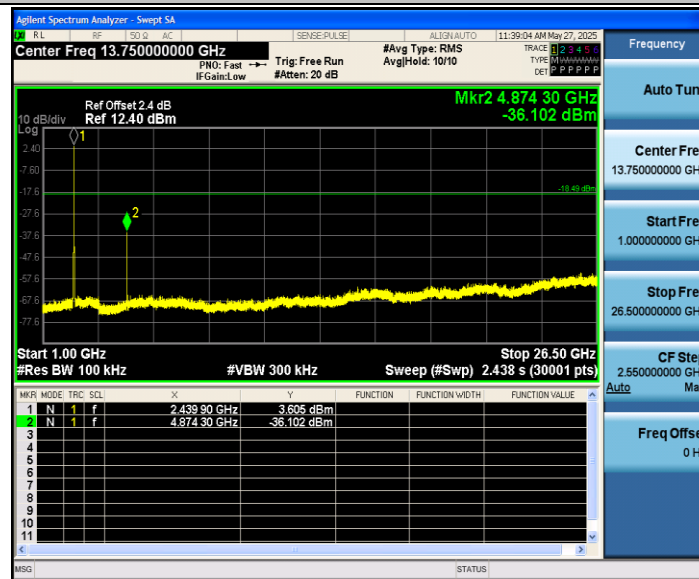
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



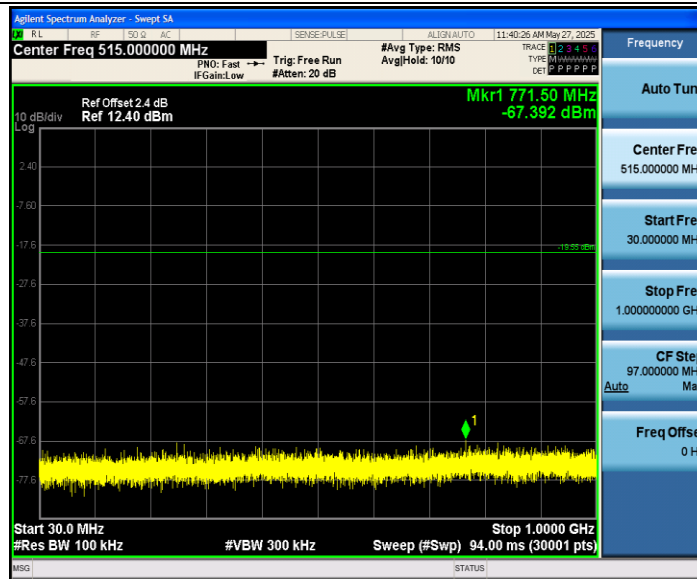
11B_Ant1_2437_1000~26500



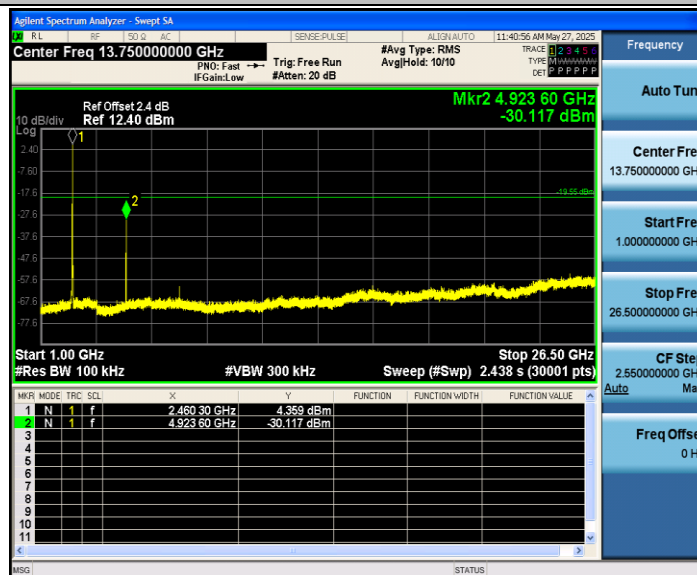
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



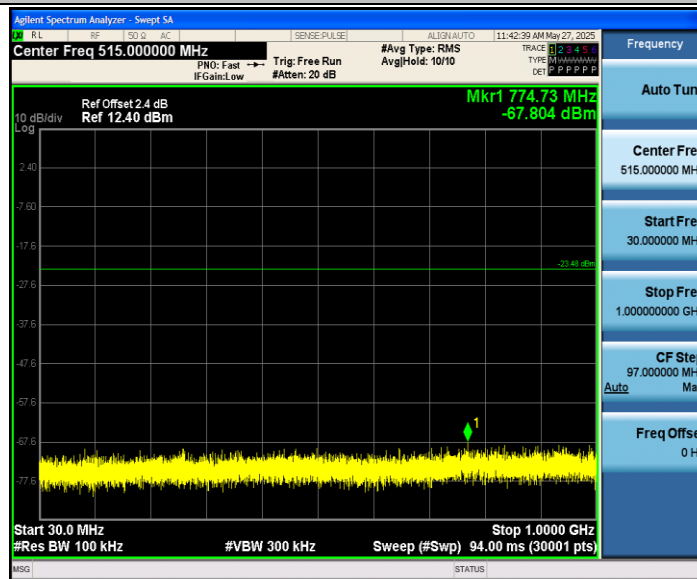
11B_Ant1_2462_1000~26500



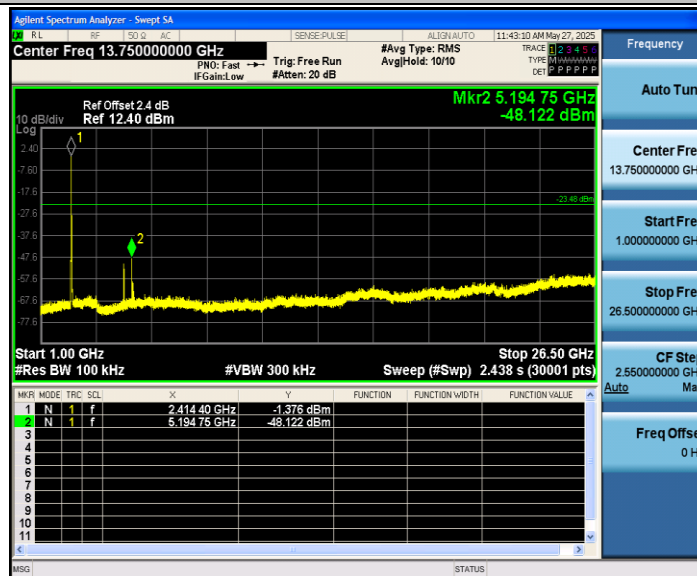
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



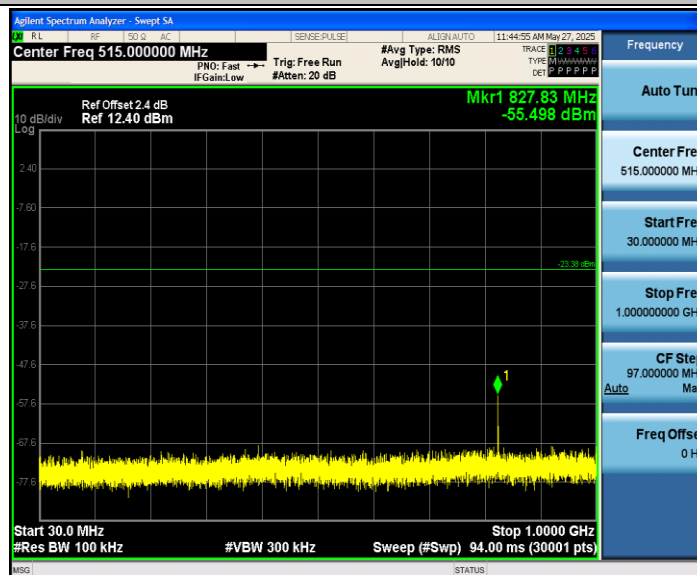
11G_Ant1_2412_1000~26500



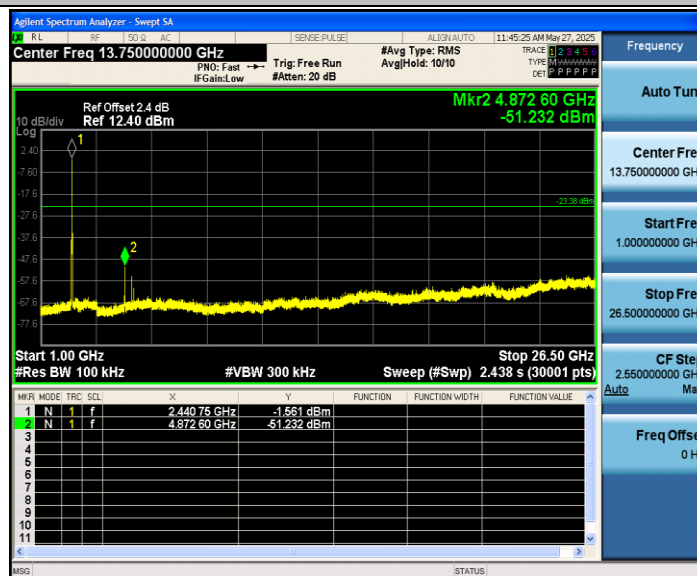
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



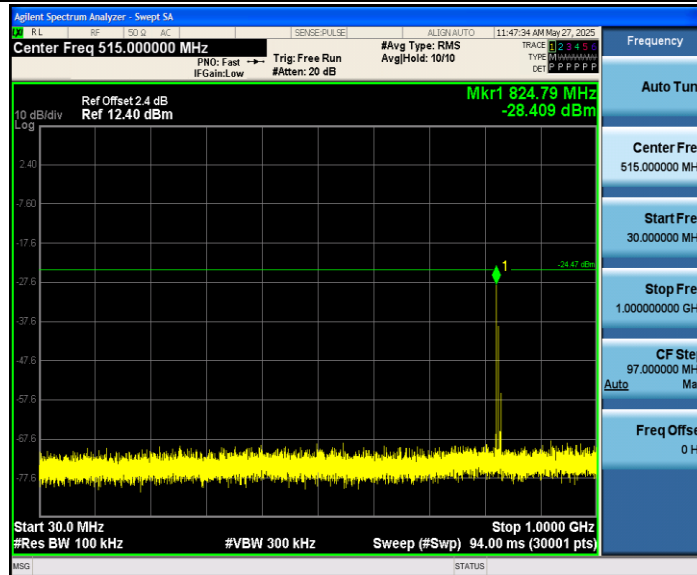
11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500