

FCC Appendix RF Test Data

FCC ID : 2BQMX-H2078D-W

Company : Zhongshan Haesuk Technology Co., LTD

EUT : Air Purifier

Model Number : H2078D-W

Report No. : CTA25061100401

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	9.040	2432.000	2441.040	0.5	PASS
		2462	9.040	2457.040	2466.080	0.5	PASS
11G	Ant1	2412	15.760	2404.440	2420.200	0.5	PASS
		2437	15.720	2429.440	2445.160	0.5	PASS
		2462	16.120	2454.040	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.200	2404.440	2420.640	0.5	PASS
		2437	15.800	2429.440	2445.240	0.5	PASS
		2462	16.600	2454.040	2470.640	0.5	PASS
11N40SISO	Ant1	2422	35.760	2404.480	2440.240	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	35.200	2434.400	2469.600	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



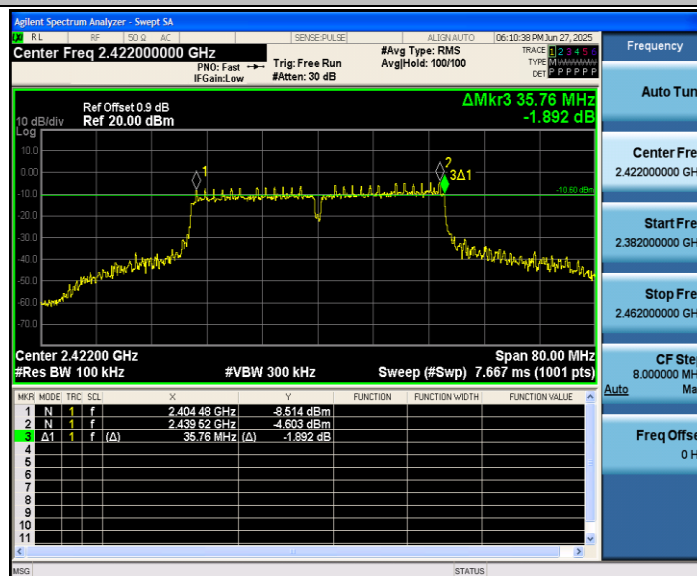
11N20SISO_Ant1_2437



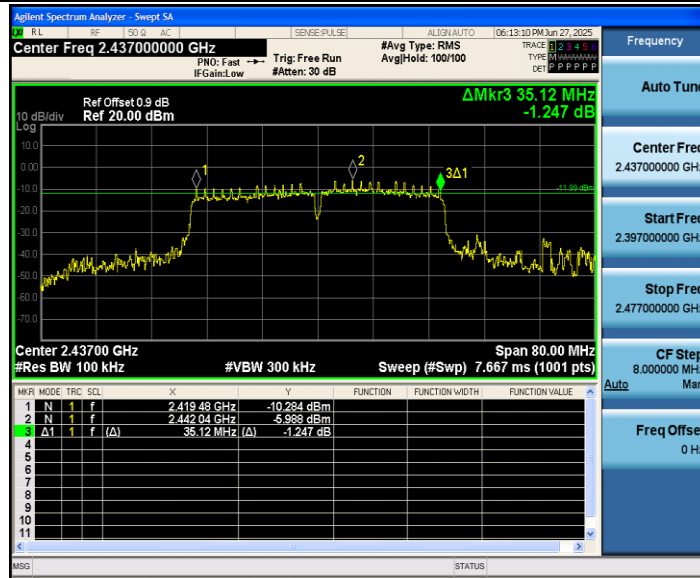
11N20SISO_Ant1_2462



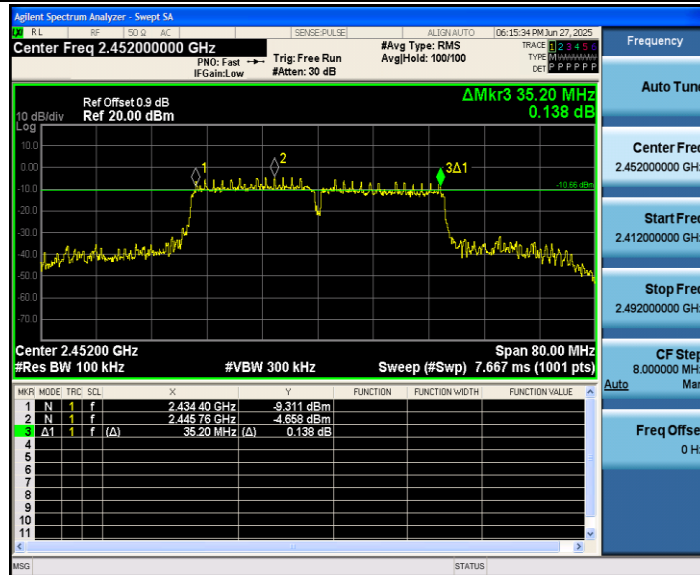
11N40SISO_Ant1_2422



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	12.344	2405.7849	2418.1289	---	---
		2437	11.699	2430.9810	2442.6800	---	---
		2462	12.708	2455.4681	2468.1761	---	---
11G	Ant1	2412	16.801	2403.7698	2420.5708	---	---
		2437	16.650	2428.7853	2445.4353	---	---
		2462	17.007	2453.5800	2470.5870	---	---
11N20SISO	Ant1	2412	17.987	2403.2506	2421.2376	---	---
		2437	17.581	2428.3316	2445.9126	---	---
		2462	18.101	2453.1200	2471.2210	---	---
11N40SISO	Ant1	2422	36.421	2404.0879	2440.5089	---	---
		2437	36.046	2419.0577	2455.1037	---	---
		2452	36.461	2433.8577	2470.3187	---	---

Test Graphs

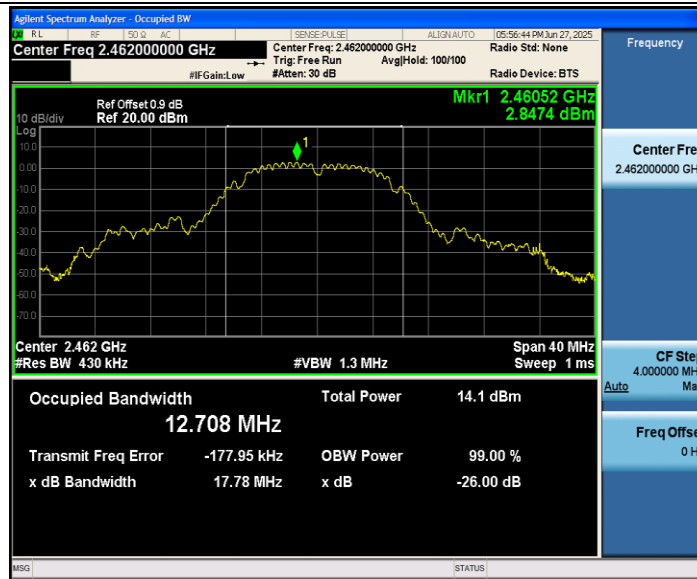
11B_Ant1_2412



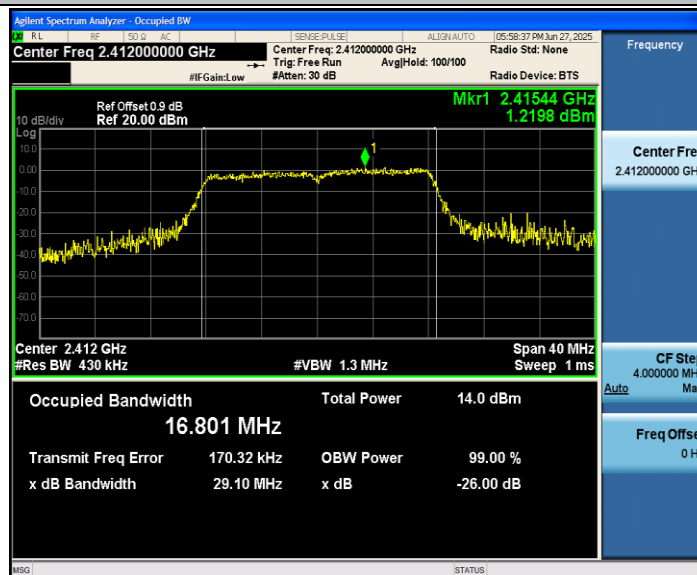
11B_Ant1_2437



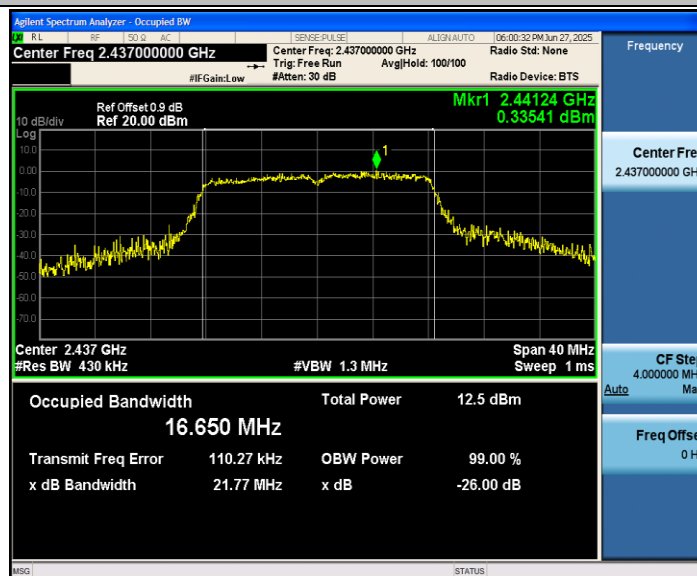
11B_Ant1_2462



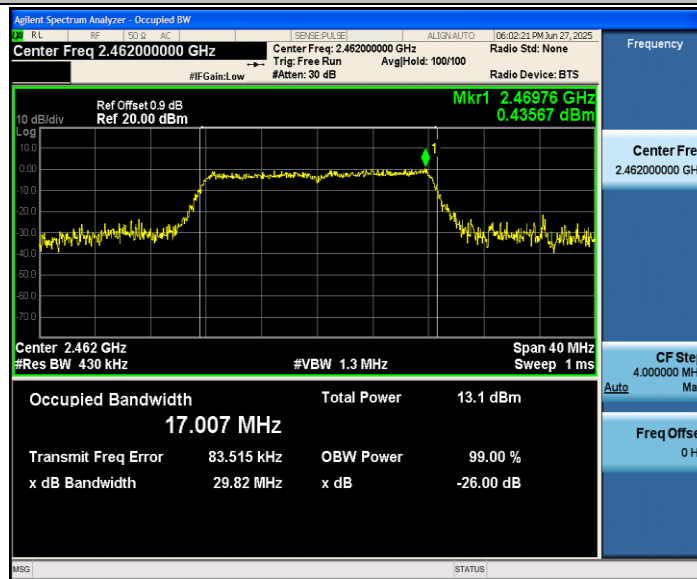
11G_Ant1_2412



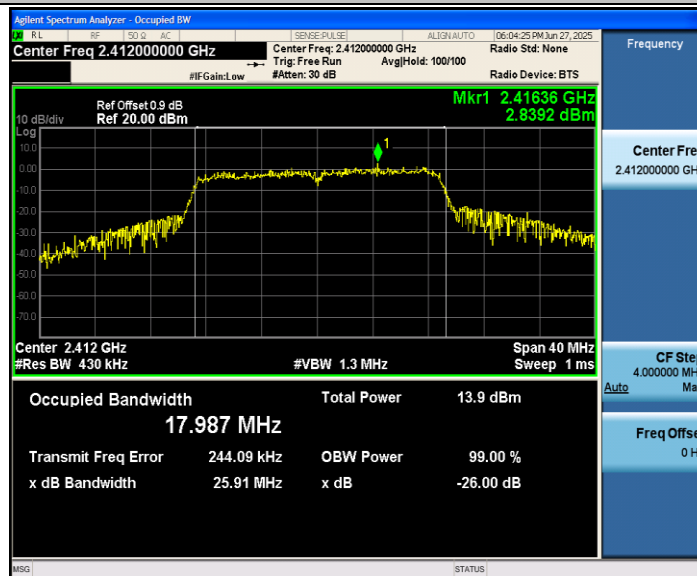
11G_Ant1_2437



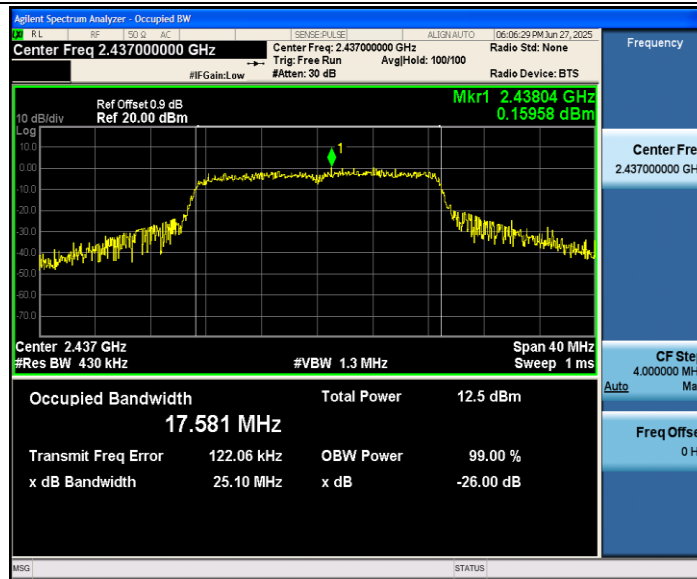
11G_Ant1_2462



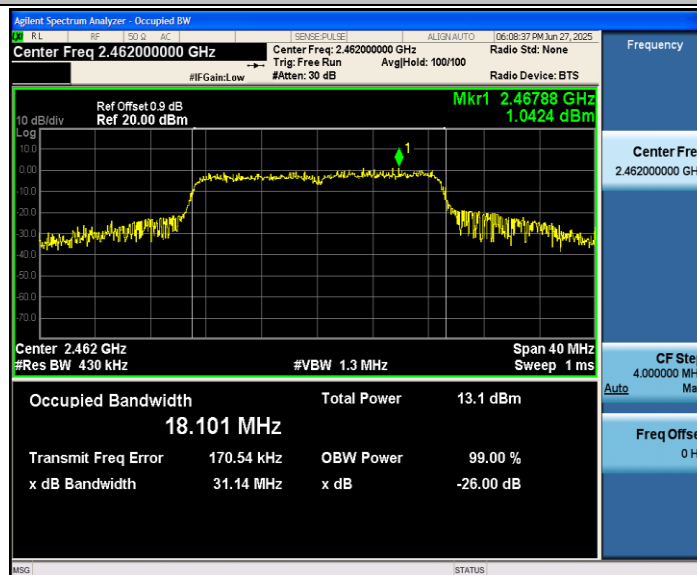
11N20SISO_Ant1_2412



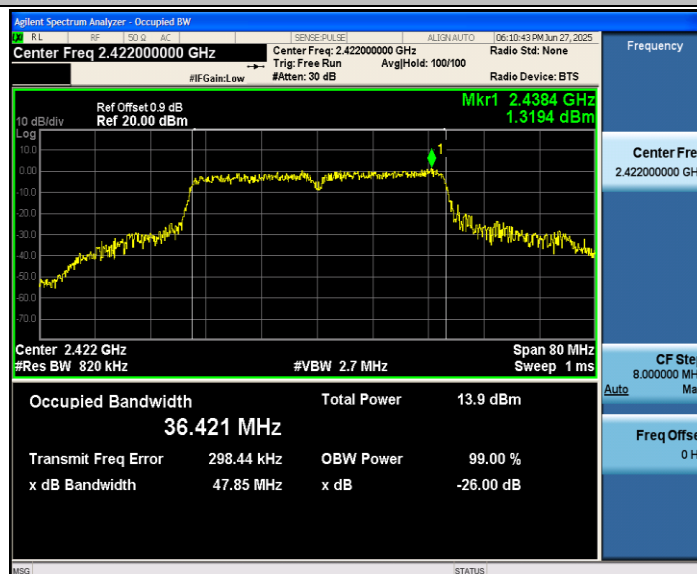
11N20SISO_Ant1_2437



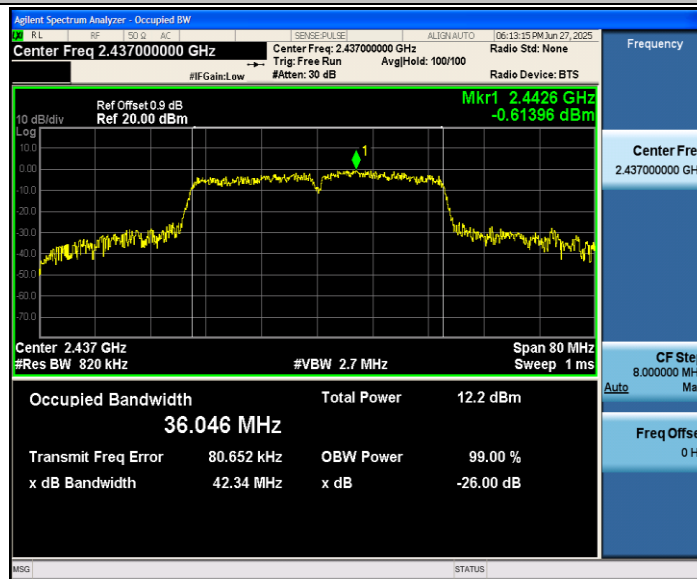
11N20SISO_Ant1_2462



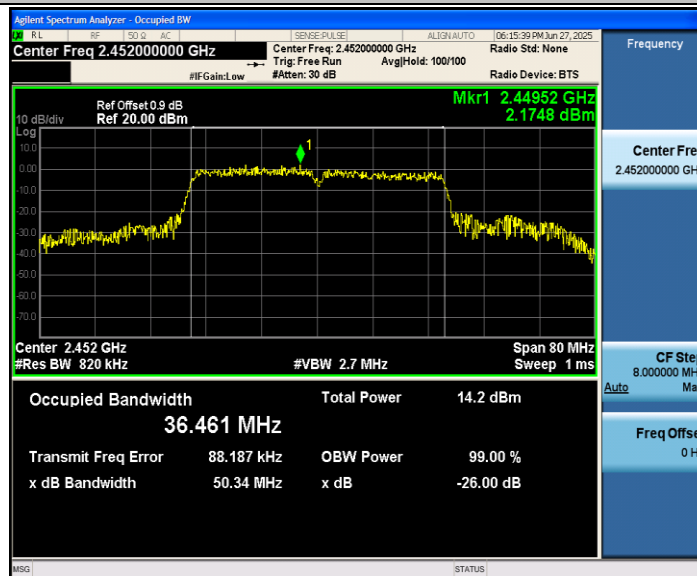
11N40SISO_Ant1_2422



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	14.69	≤30.00	PASS
		2437	13.80	≤30.00	PASS
		2462	13.87	≤30.00	PASS
11G	Ant1	2412	14.58	≤30.00	PASS
		2437	13.15	≤30.00	PASS
		2462	13.66	≤30.00	PASS
11N20SISO	Ant1	2412	14.65	≤30.00	PASS
		2437	13.04	≤30.00	PASS
		2462	13.71	≤30.00	PASS
11N40SISO	Ant1	2422	14.09	≤30.00	PASS
		2437	12.60	≤30.00	PASS
		2452	14.33	≤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	-10.67	≤8.00	PASS
		2437	-11.24	≤8.00	PASS
		2462	-11.97	≤8.00	PASS
11G	Ant1	2412	-16.14	≤8.00	PASS
		2437	-18.26	≤8.00	PASS
		2462	-17.01	≤8.00	PASS
11N20SISO	Ant1	2412	-16.18	≤8.00	PASS
		2437	-18.75	≤8.00	PASS
		2462	-17.73	≤8.00	PASS
11N40SISO	Ant1	2422	-19.05	≤8.00	PASS
		2437	-20.50	≤8.00	PASS
		2452	-18.62	≤8.00	PASS

Test Graphs

11B_Ant1_2412



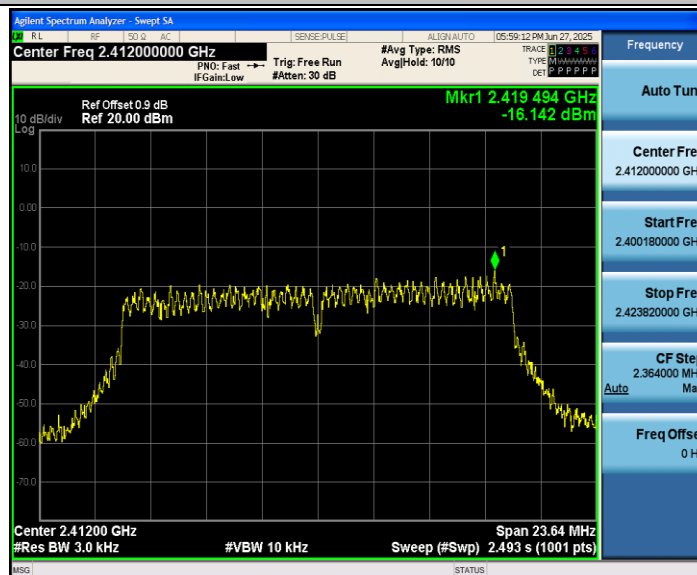
11B_Ant1_2437



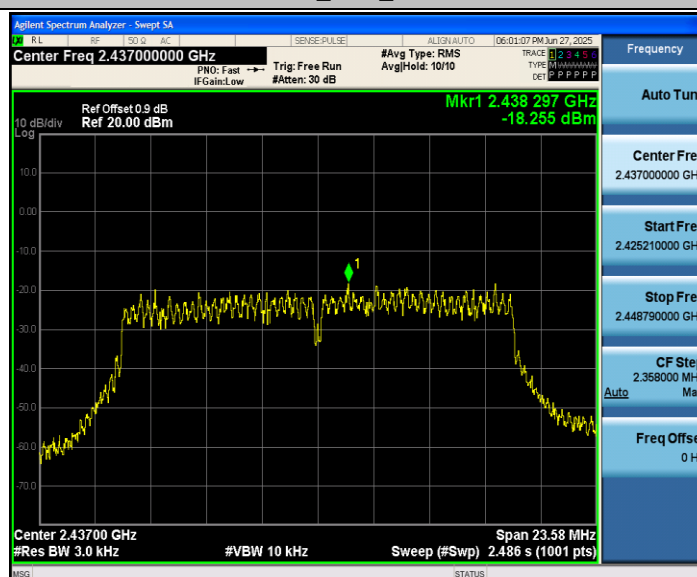
11B_Ant1_2462



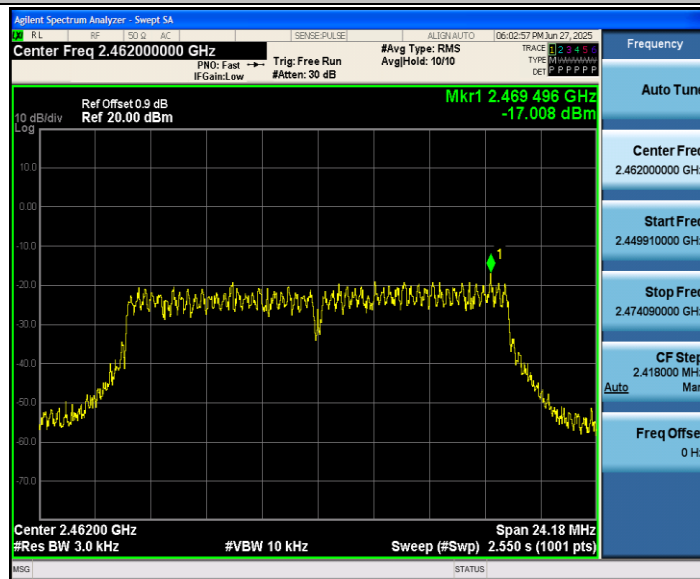
11G_Ant1_2412



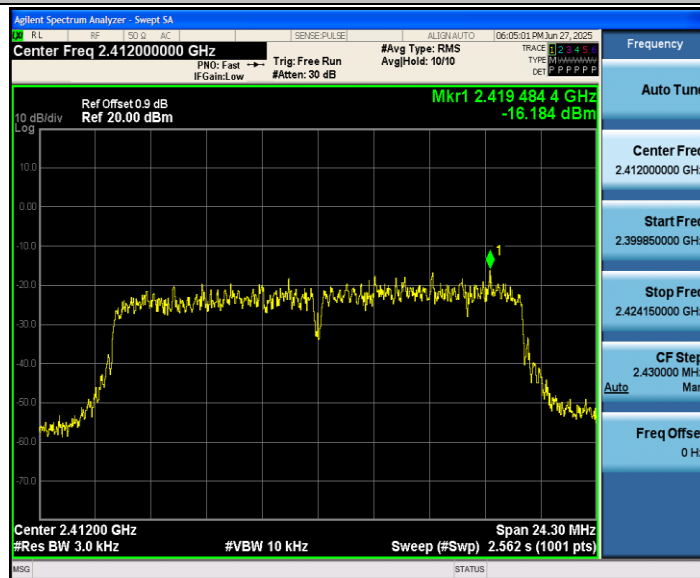
11G_Ant1_2437



11G_Ant1_2462



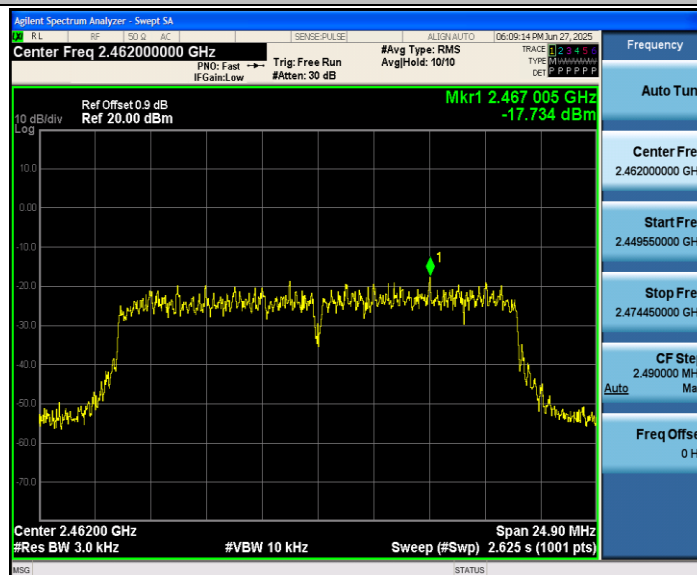
11N20SISO_Ant1_2412



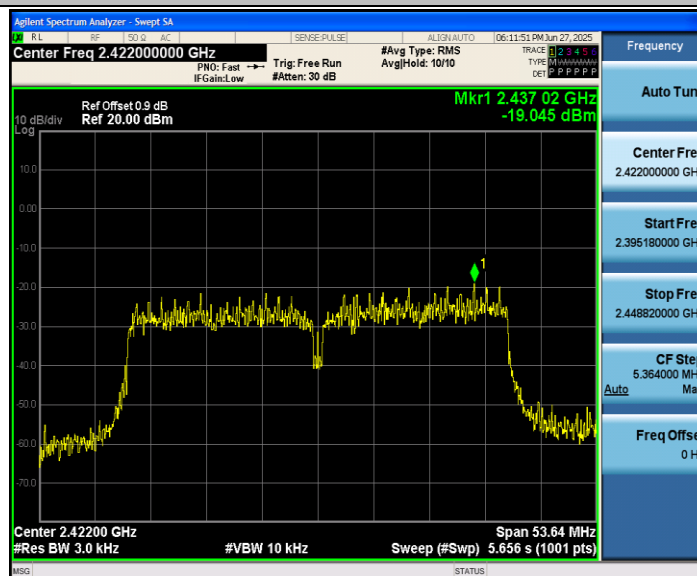
11N20SISO_Ant1_2437



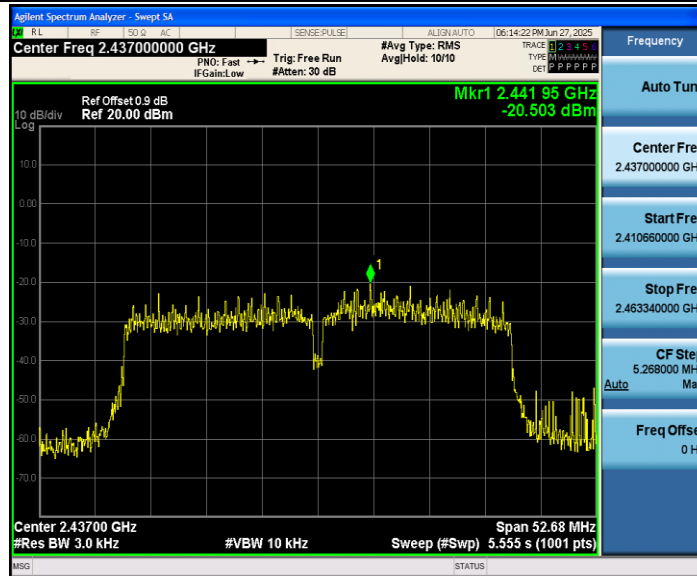
11N20SISO_Ant1_2462



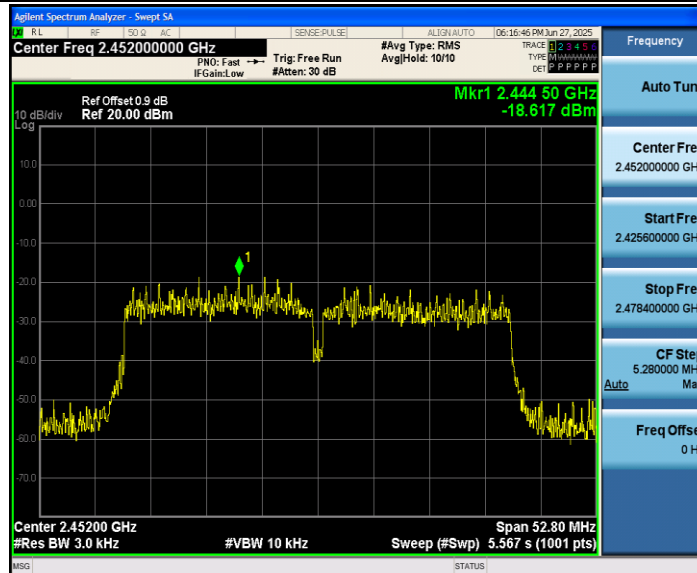
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



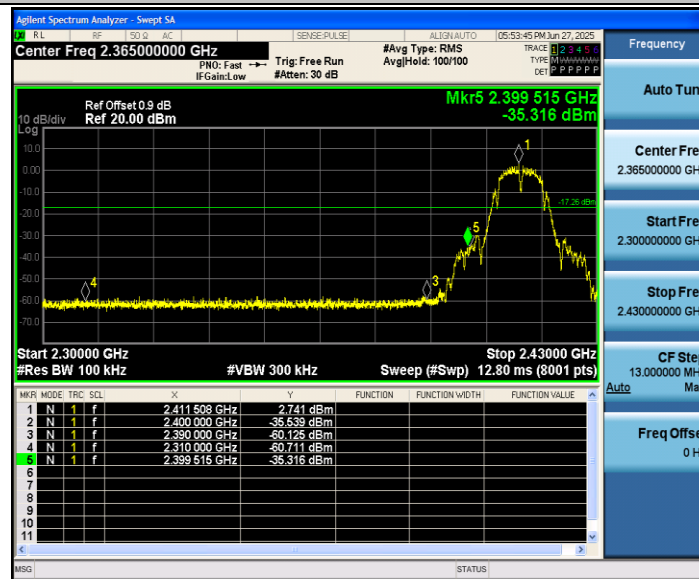
Appendix E: Band edge measurements

Test Result

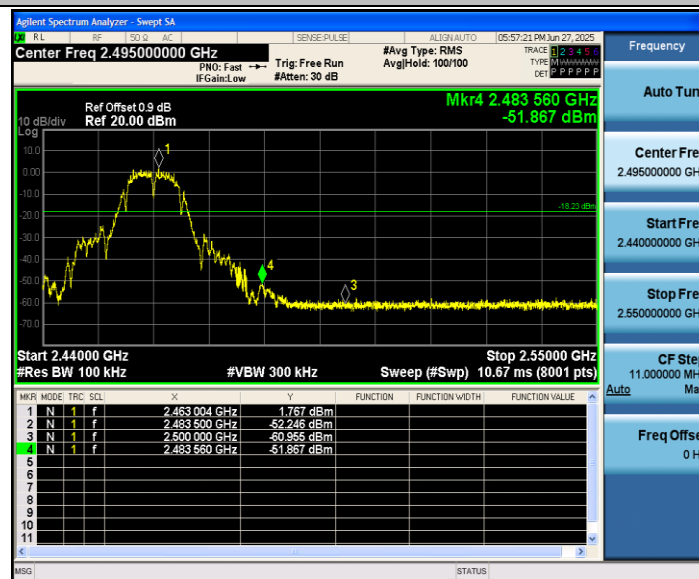
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.74	-35.32	≤-17.26	PASS
		High	2462	1.77	-51.87	≤-18.23	PASS
11G	Ant1	Low	2412	-1.20	-33.68	≤-21.2	PASS
		High	2462	-2.25	-34.82	≤-22.25	PASS
11N20SISO	Ant1	Low	2412	-1.14	-34.39	≤-21.14	PASS
		High	2462	-2.82	-38.05	≤-22.82	PASS
11N40SISO	Ant1	Low	2422	-4.59	-36.94	≤-24.59	PASS
		High	2452	-4.57	-35.26	≤-24.57	PASS

Test Graphs

11B_Ant1_Low_2412



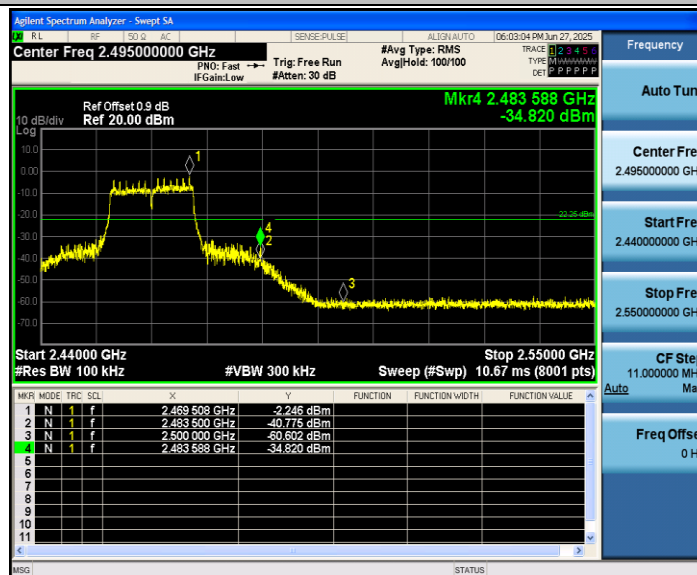
11B_Ant1_High_2462



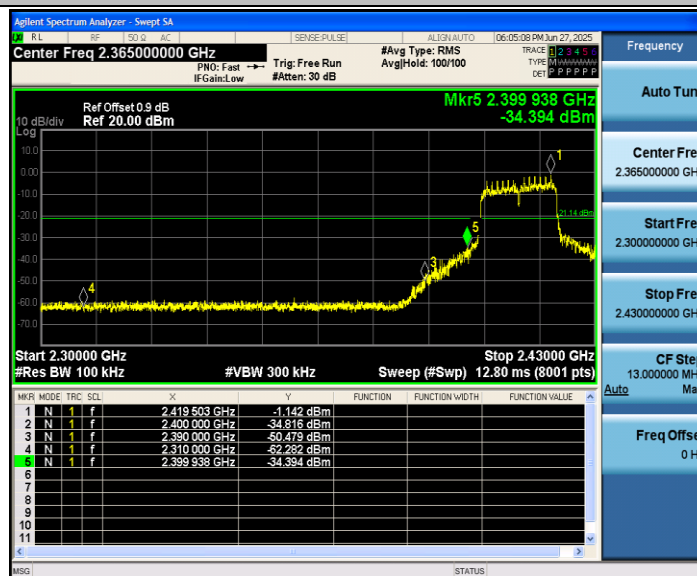
11G_Ant1_Low_2412



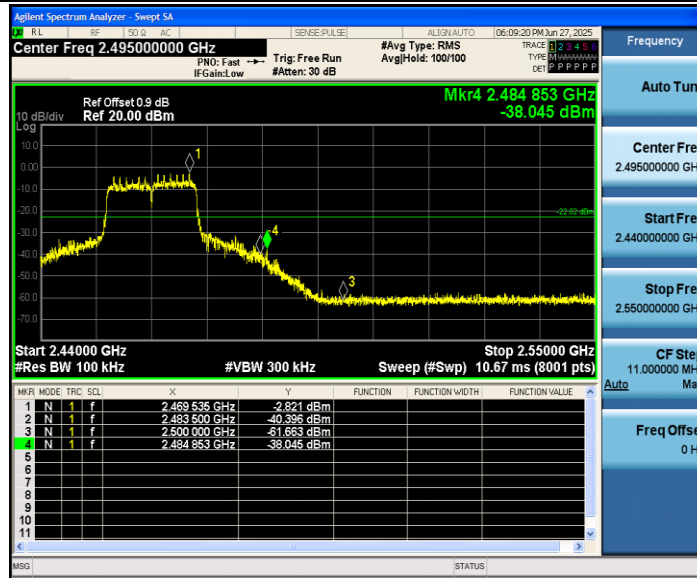
11G_Ant1_High_2462



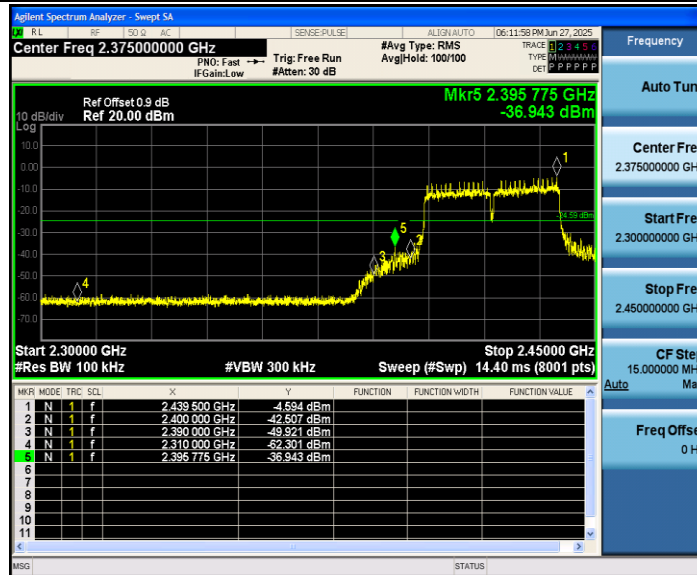
11N20SISO_Ant1_Low_2412



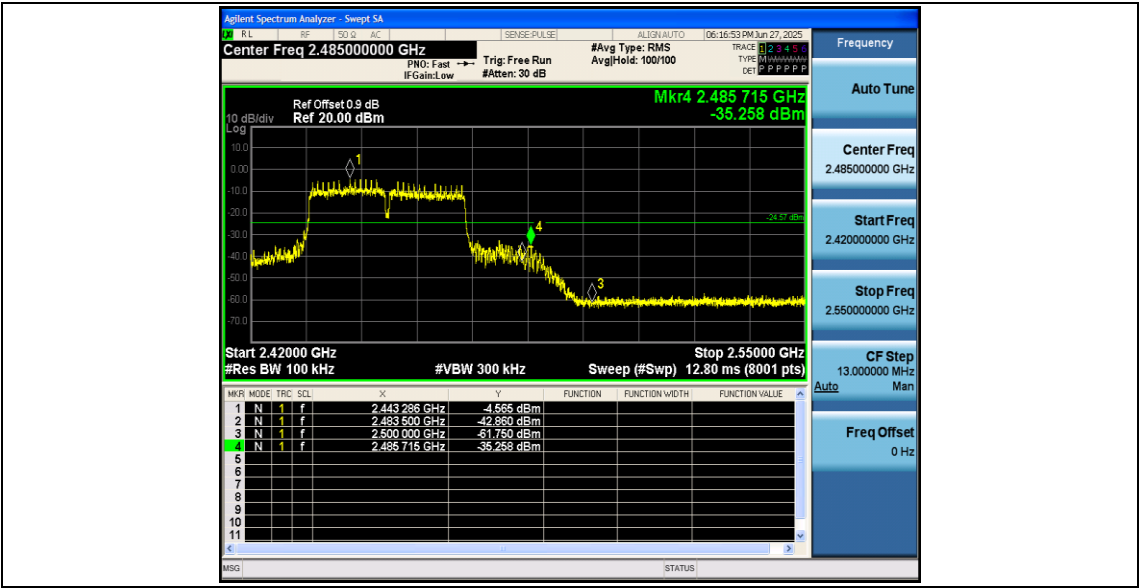
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

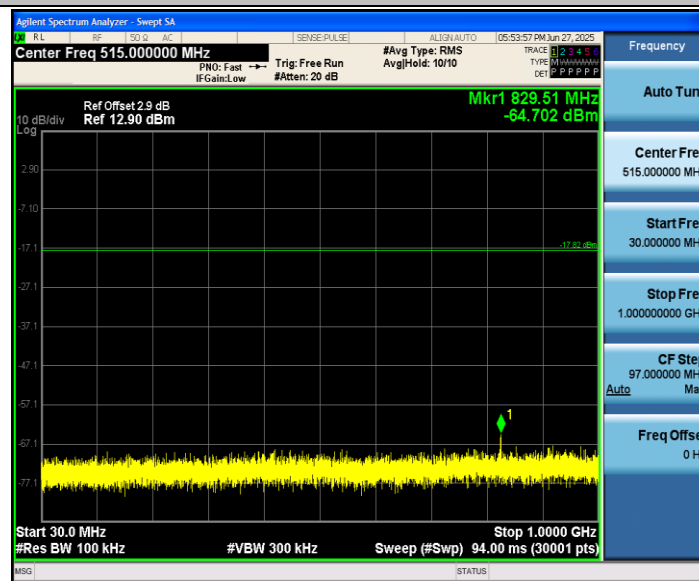
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.18	2.18	---	PASS
			30~1000	2.18	-64.7	≤-17.82	PASS
			1000~26500	2.18	-37.94	≤-17.82	PASS
		2437	Reference	0.58	0.58	---	PASS
			30~1000	0.58	-67.12	≤-19.42	PASS
			1000~26500	0.58	-36.42	≤-19.42	PASS
		2462	Reference	-0.23	-0.23	---	PASS
			30~1000	-0.23	-65.94	≤-20.23	PASS
			1000~26500	-0.23	-29.96	≤-20.23	PASS
11G	Ant1	2412	Reference	-2.04	-2.04	---	PASS
			30~1000	-2.04	-67.08	≤-22.04	PASS
			1000~26500	-2.04	-49.75	≤-22.04	PASS
		2437	Reference	-5.16	-5.16	---	PASS
			30~1000	-5.16	-66.94	≤-25.16	PASS
			1000~26500	-5.16	-40.64	≤-25.16	PASS
		2462	Reference	-3.47	-3.47	---	PASS
			30~1000	-3.47	-67.61	≤-23.47	PASS
			1000~26500	-3.47	-41.91	≤-23.47	PASS
11N20SISO	Ant1	2412	Reference	-1.86	-1.86	---	PASS
			30~1000	-1.86	-68.08	≤-21.86	PASS
			1000~26500	-1.86	-49.16	≤-21.86	PASS
		2437	Reference	-4.09	-4.09	---	PASS
			30~1000	-4.09	-67.51	≤-24.09	PASS
			1000~26500	-4.09	-42.69	≤-24.09	PASS
		2462	Reference	-3.39	-3.39	---	PASS
			30~1000	-3.39	-67.53	≤-23.39	PASS
			1000~26500	-3.39	-41.66	≤-23.39	PASS
11N40SISO	Ant1	2422	Reference	-4.58	-4.58	---	PASS
			30~1000	-4.58	-67.21	≤-24.58	PASS
			1000~26500	-4.58	-50.24	≤-24.58	PASS
		2437	Reference	-6.44	-6.44	---	PASS
			30~1000	-6.44	-67.53	≤-26.44	PASS
			1000~26500	-6.44	-51.41	≤-26.44	PASS
		2452	Reference	-4.98	-4.98	---	PASS
			30~1000	-4.98	-67.01	≤-24.98	PASS
			1000~26500	-4.98	-48.58	≤-24.98	PASS

Test Graphs

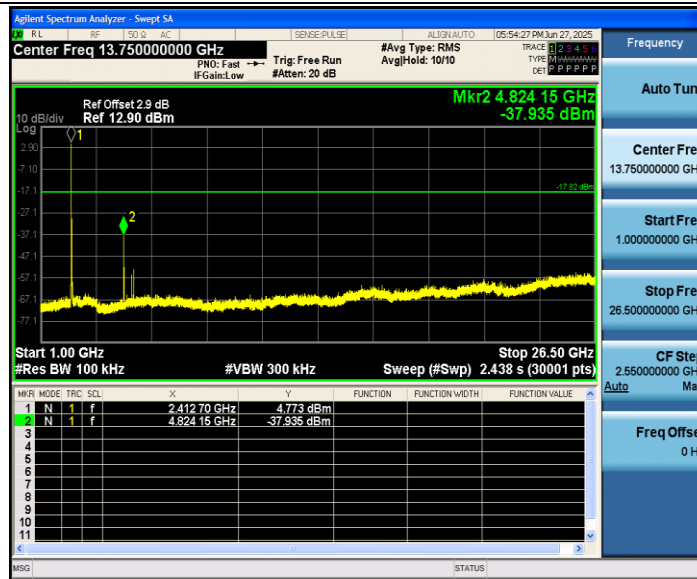
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



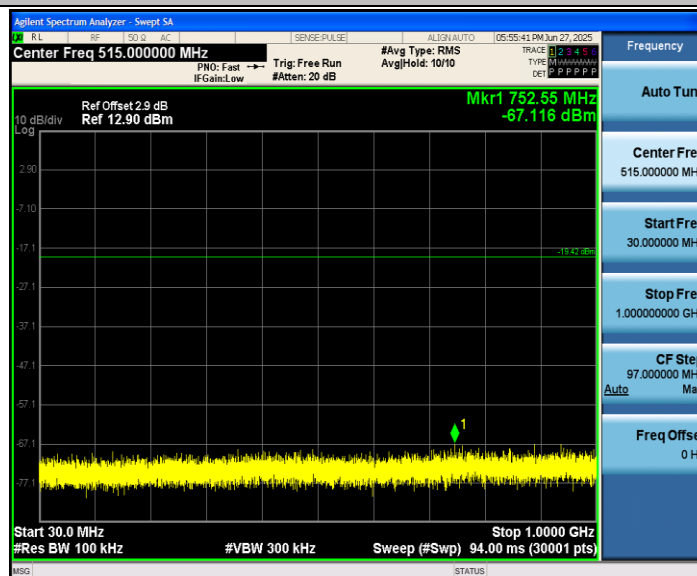
11B_Ant1_2412_1000~26500



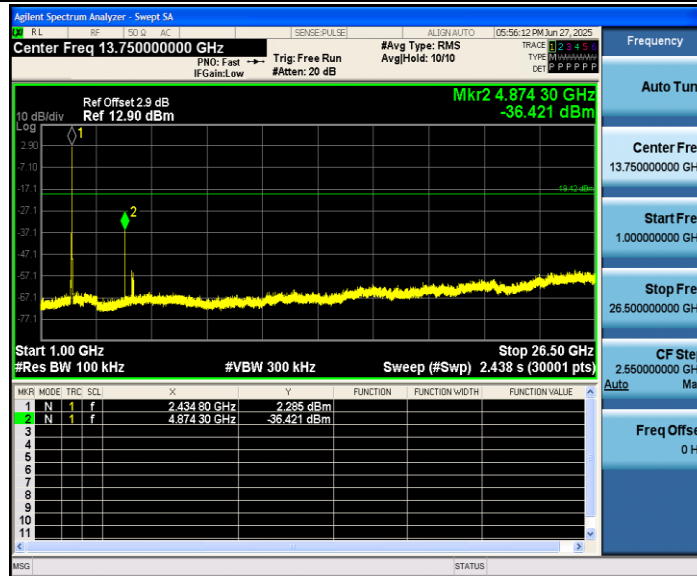
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



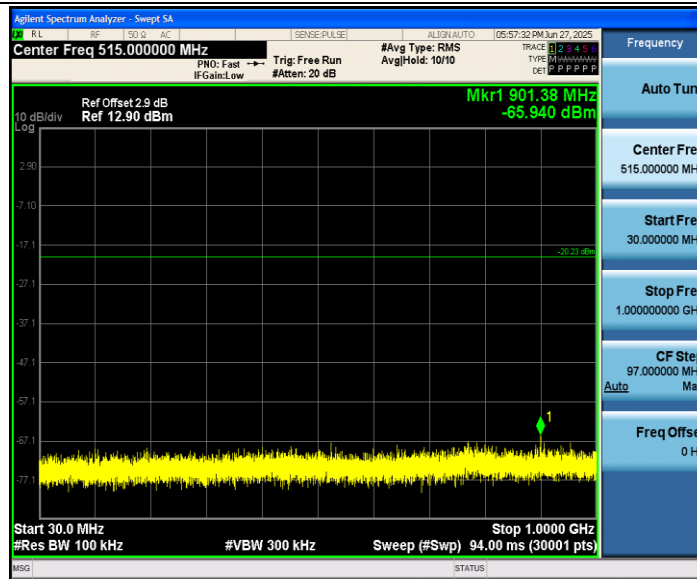
11B_Ant1_2437_1000~26500



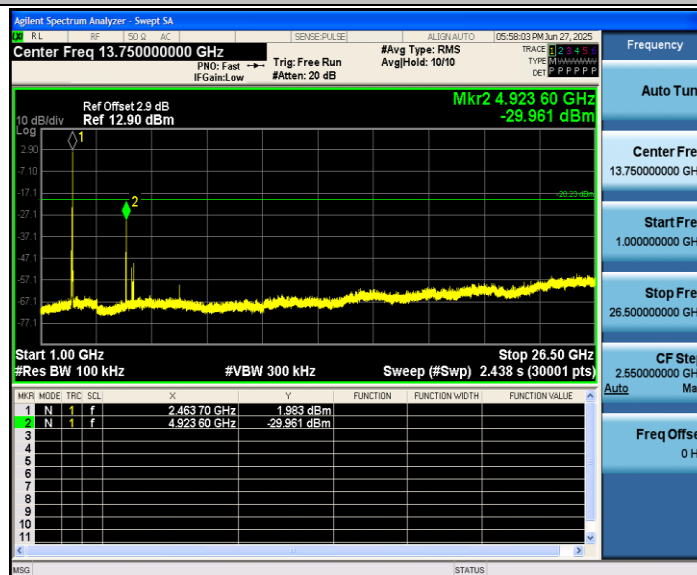
11B_Ant1_2462_0~Reference



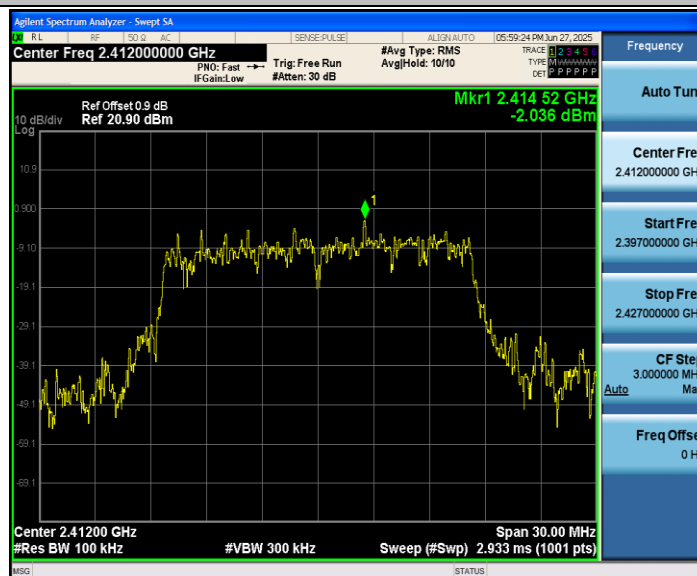
11B_Ant1_2462_30~1000



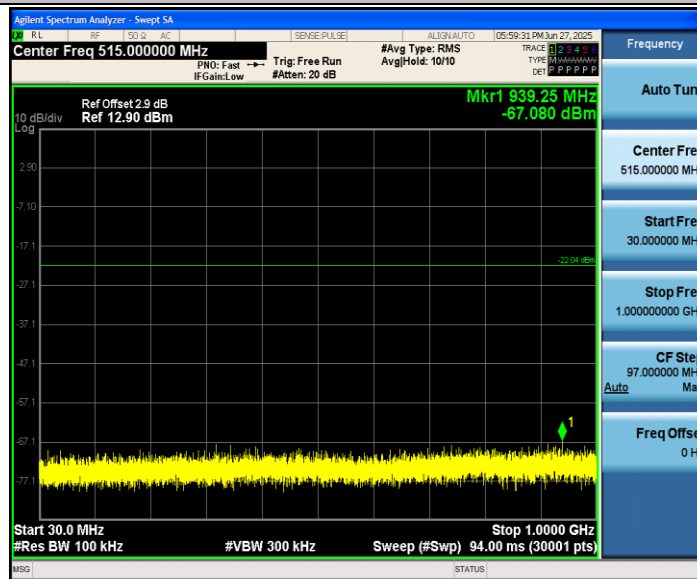
11B_Ant1_2462_1000~26500



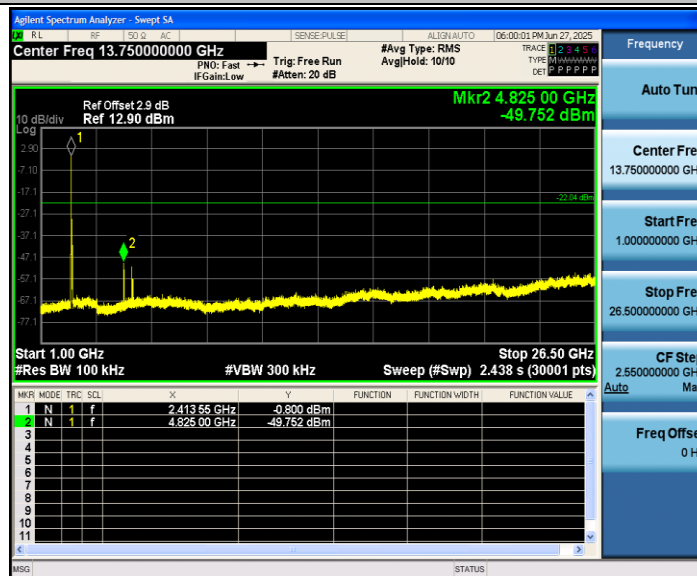
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



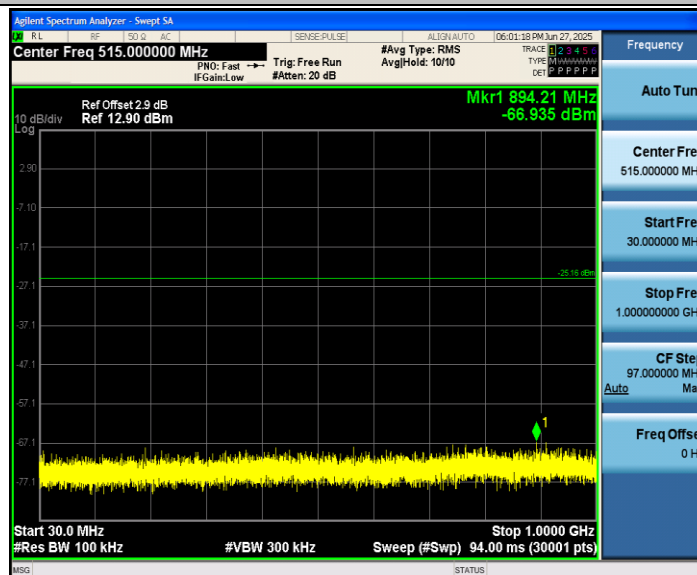
11G_Ant1_2412_1000~26500



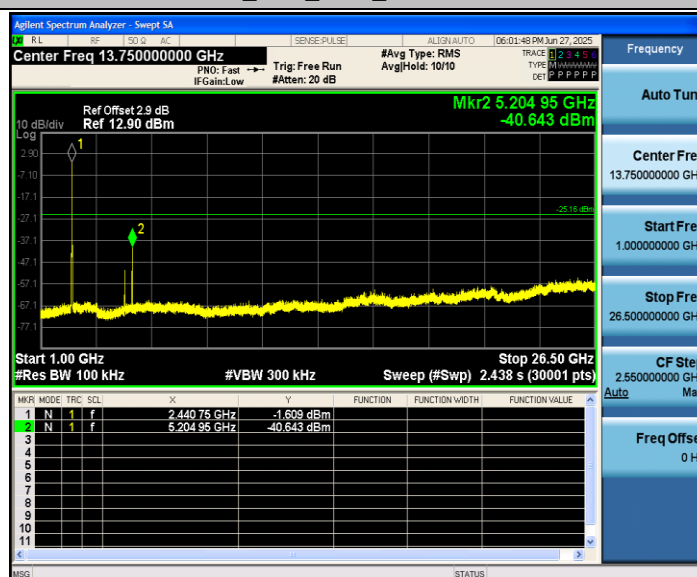
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



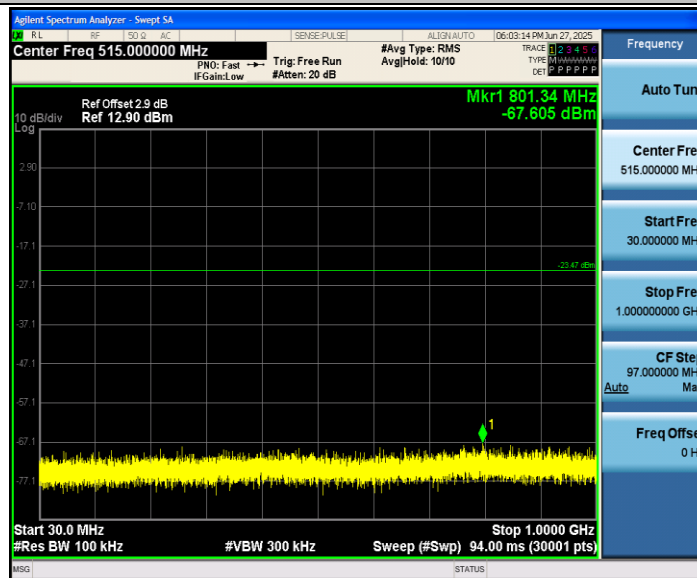
11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500