

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BSBK-EUVOLAL3

Company : Shenzhen Lingyuan Huiqi Technology Co., Ltd.

EUT : AI Emotional Companion

Model Number : Euvola L3

Report No. : CTA25090801201

Reviewed By : Eric Wang

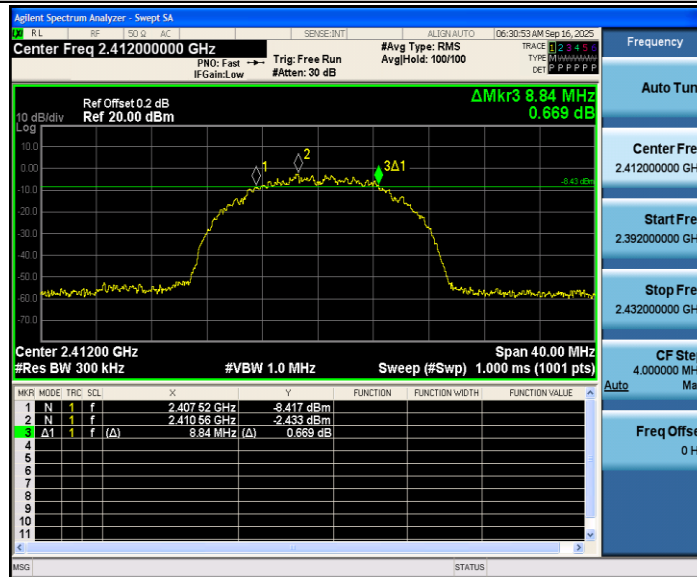
Appendix A: DTS Bandwidth

Test Result

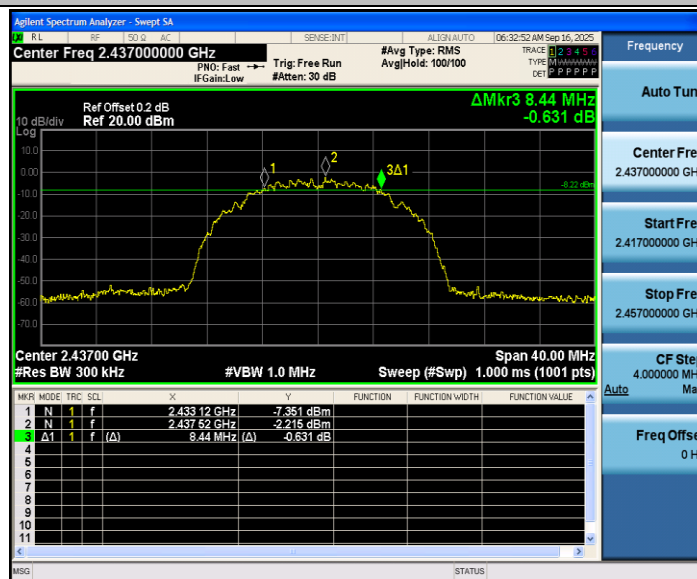
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.840	2407.520	2416.360	0.5	PASS
		2437	8.440	2433.120	2441.560	0.5	PASS
		2462	8.880	2457.520	2466.400	0.5	PASS
11G	Ant1	2412	16.320	2403.920	2420.240	0.5	PASS
		2437	16.240	2428.920	2445.160	0.5	PASS
		2462	16.320	2453.880	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.320	2403.400	2420.720	0.5	PASS
		2437	17.360	2428.320	2445.680	0.5	PASS
		2462	17.160	2453.440	2470.600	0.5	PASS
11N40SISO	Ant1	2422	34.240	2405.120	2439.360	0.5	PASS
		2437	34.000	2420.280	2454.280	0.5	PASS
		2452	33.920	2435.200	2469.120	0.5	PASS

Test Graphs

11B_Ant1_2412



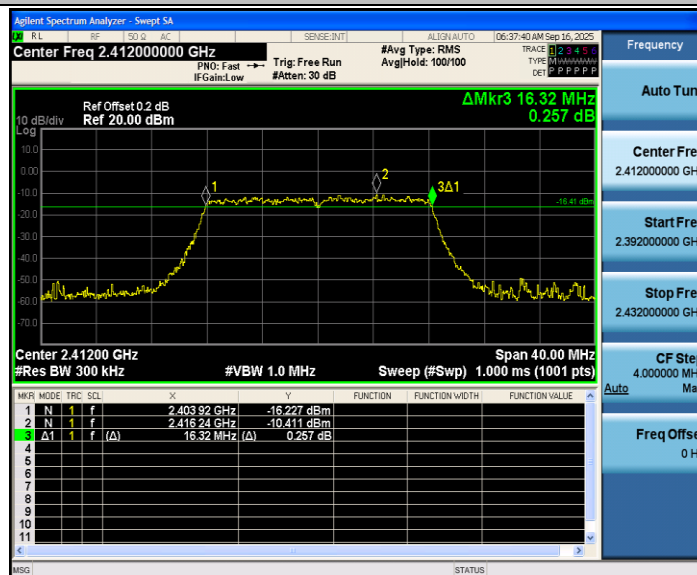
11B_Ant1_2437



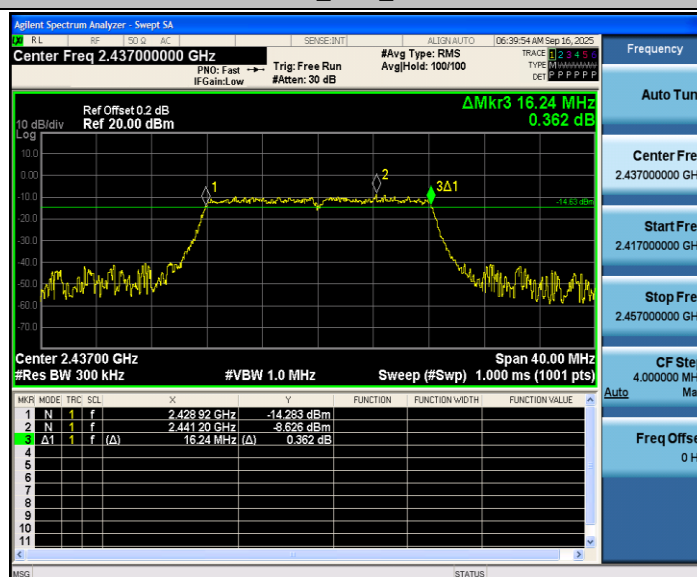
11B_Ant1_2462



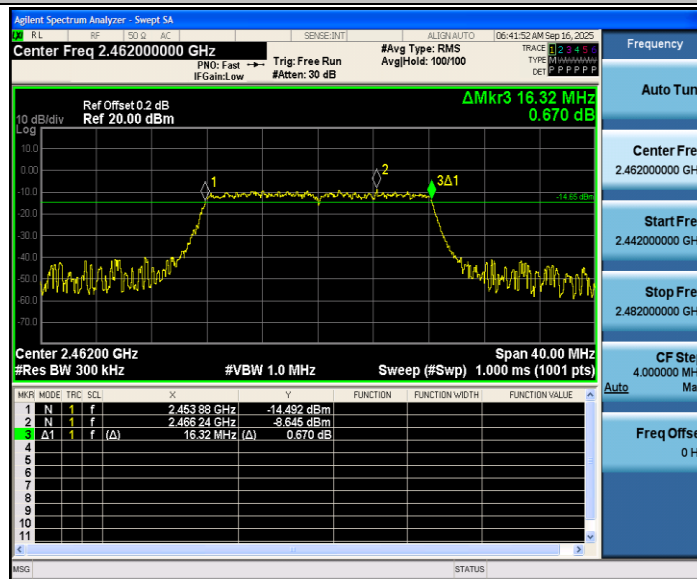
11G_Ant1_2412



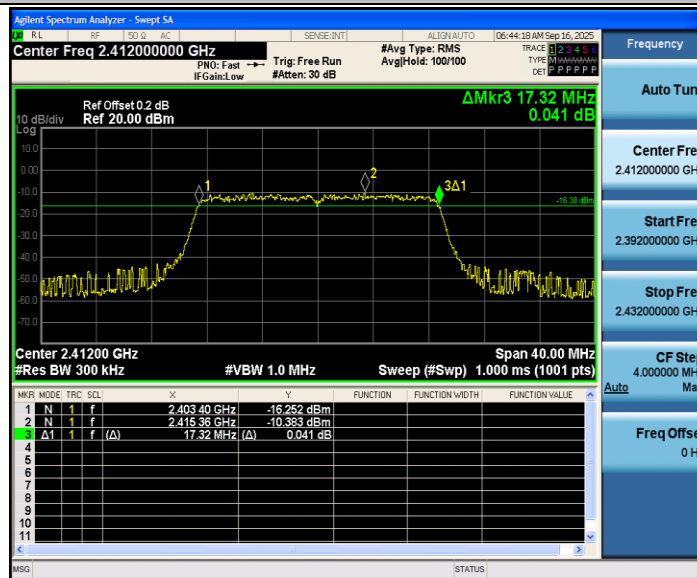
11G_Ant1_2437



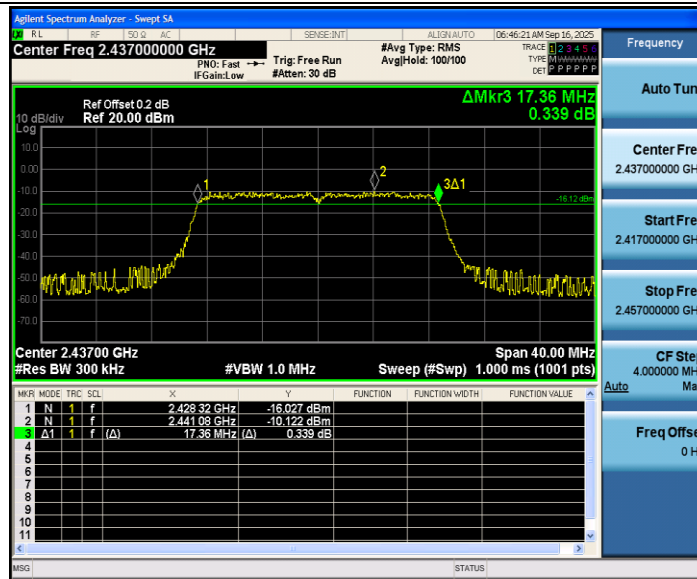
11G_Ant1_2462



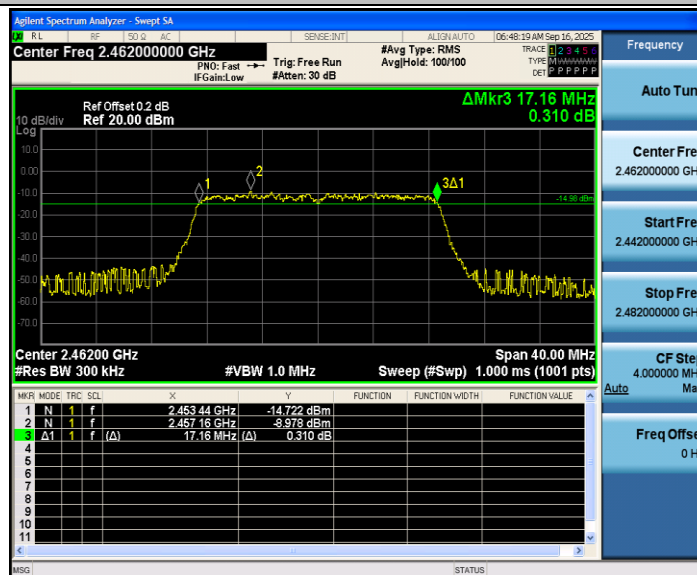
11N20SISO_Ant1_2412



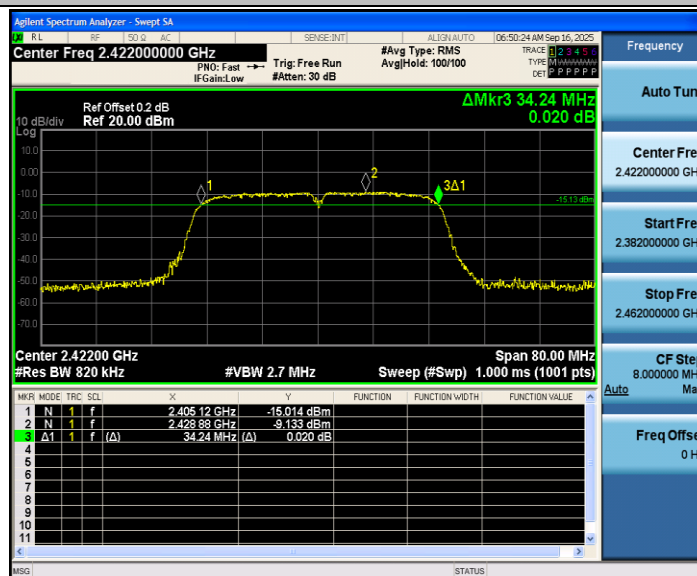
11N20SISO_Ant1_2437



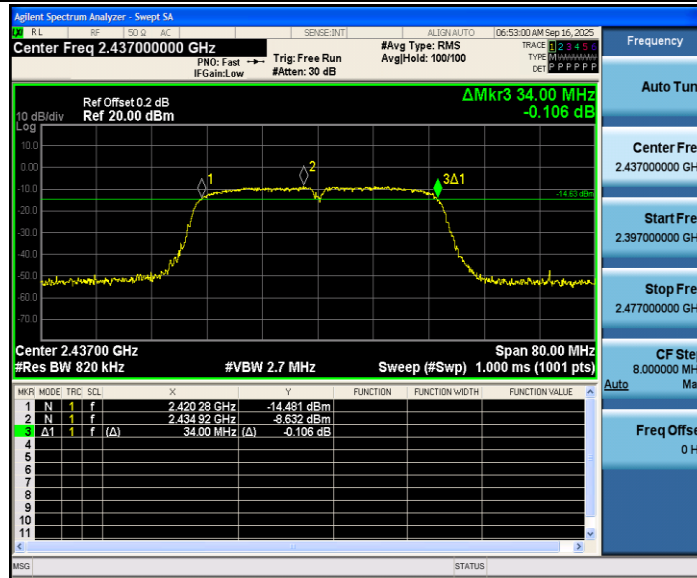
11N20SISO_Ant1_2462



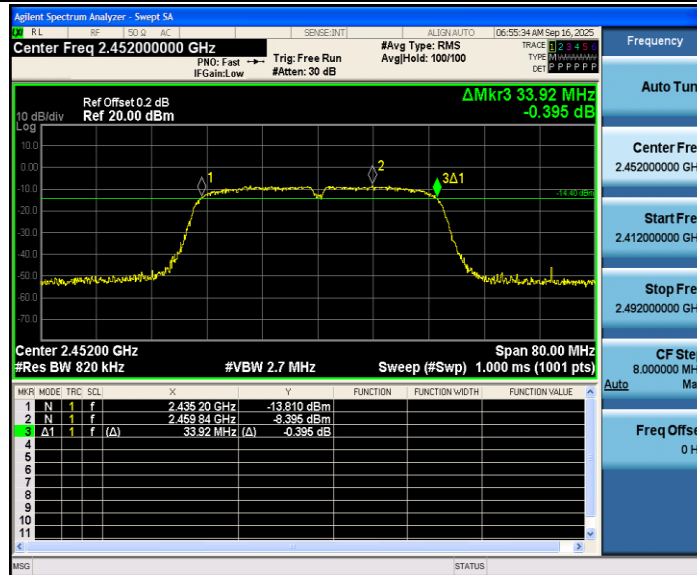
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



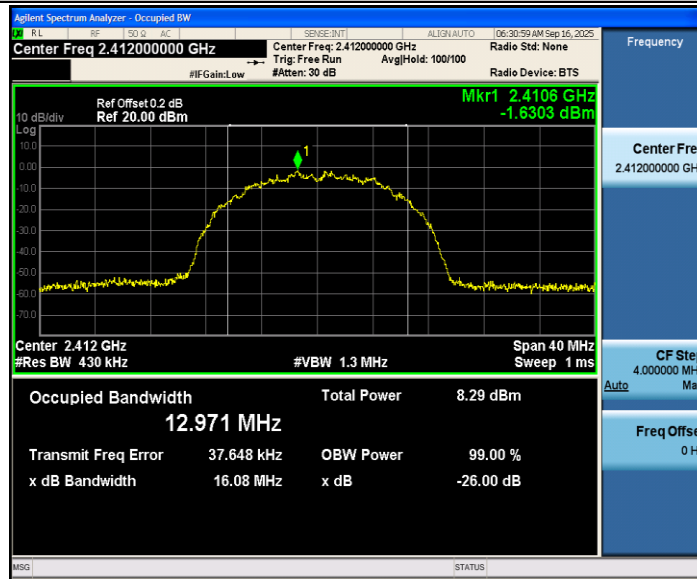
Appendix B: Occupied Channel Bandwidth

Test Result

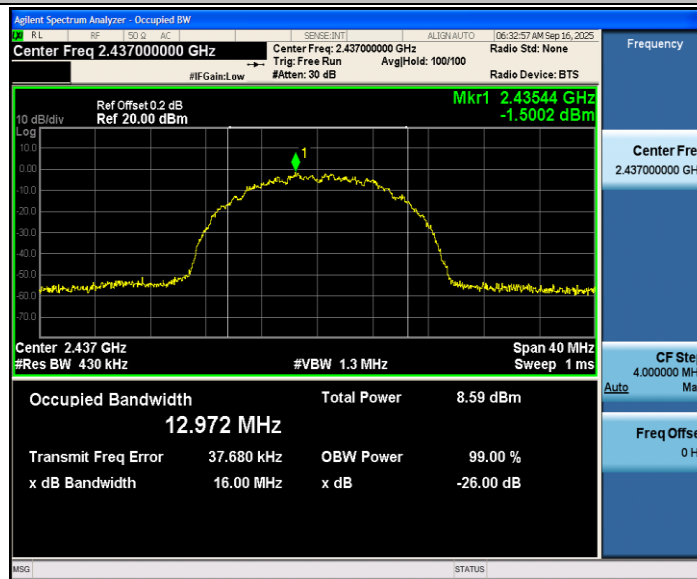
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.971	2405.5522	2418.5232	---	---
		2437	12.972	2430.5517	2443.5237	---	---
		2462	12.967	2455.5209	2468.4879	---	---
11G	Ant1	2412	16.573	2403.7666	2420.3396	---	---
		2437	16.584	2428.7573	2445.3413	---	---
		2462	16.623	2453.7221	2470.3451	---	---
11N20SISO	Ant1	2412	17.432	2403.3295	2420.7615	---	---
		2437	17.459	2428.3061	2445.7651	---	---
		2462	17.469	2453.3009	2470.7699	---	---
11N40SISO	Ant1	2422	34.792	2404.8062	2439.5982	---	---
		2437	34.830	2419.7282	2454.5582	---	---
		2452	34.736	2434.7352	2469.4712	---	---

Test Graphs

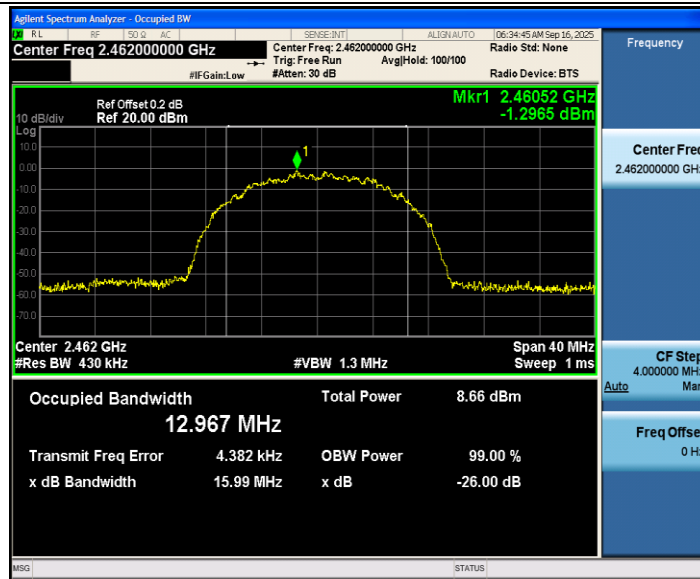
11B_Ant1_2412



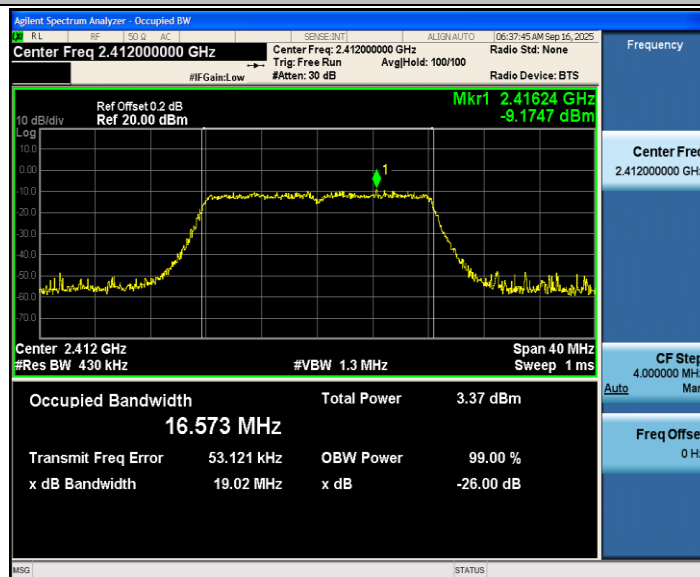
11B_Ant1_2437



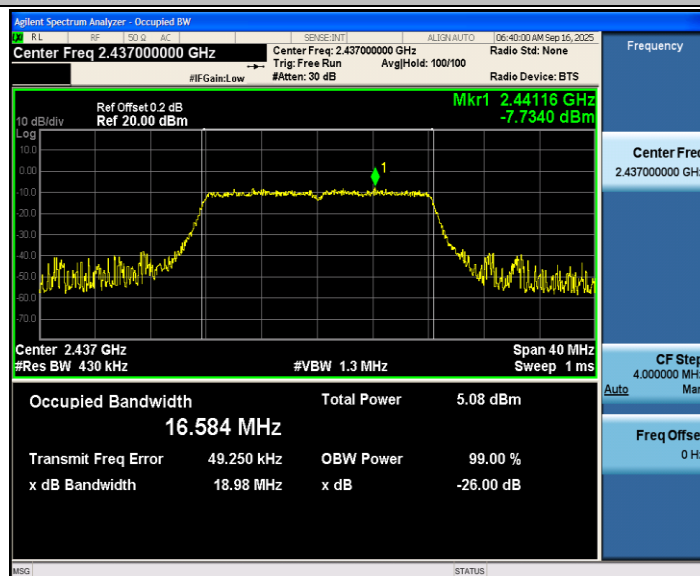
11B_Ant1_2462



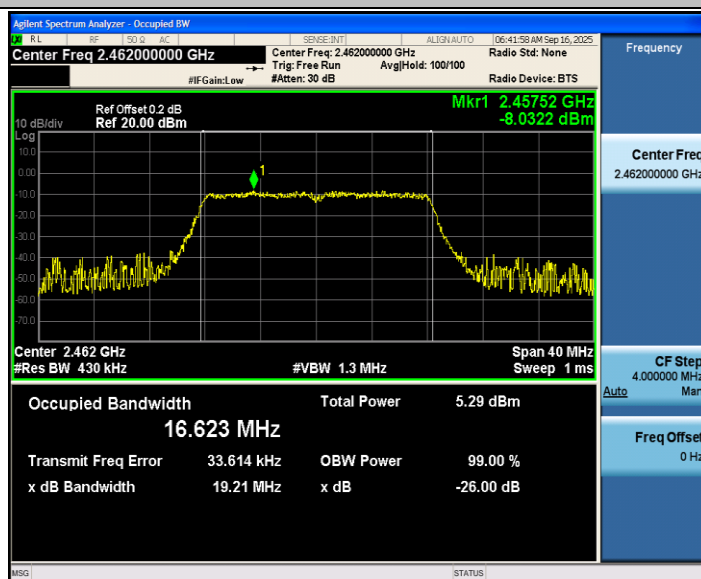
11G_Ant1_2412



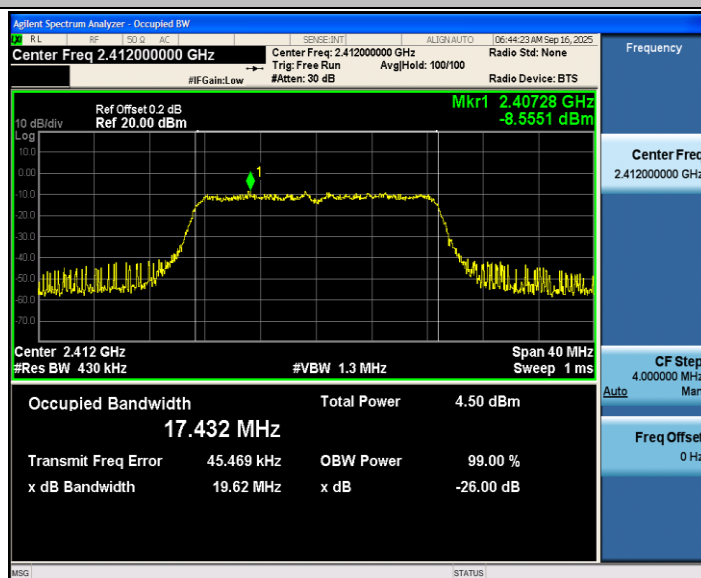
11G_Ant1_2437



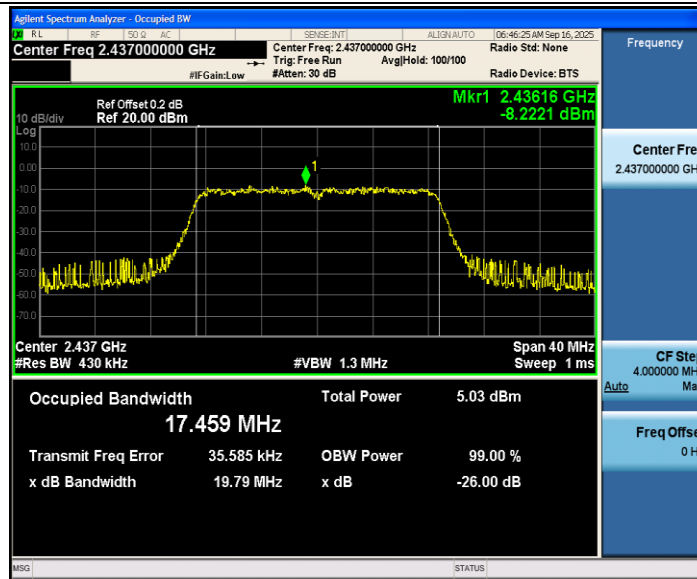
11G_Ant1_2462



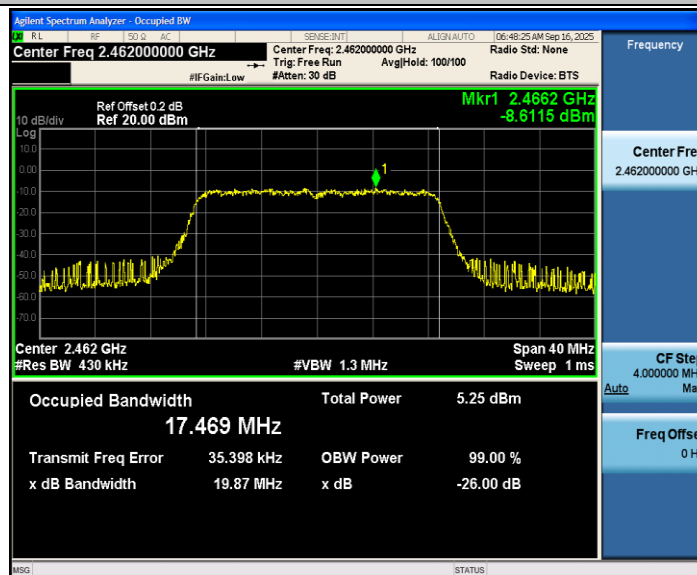
11N20SISO_Ant1_2412



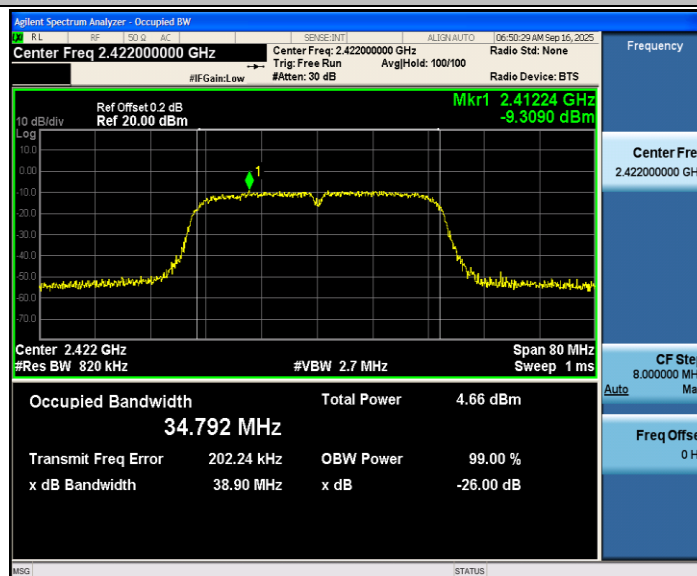
11N20SISO_Ant1_2437



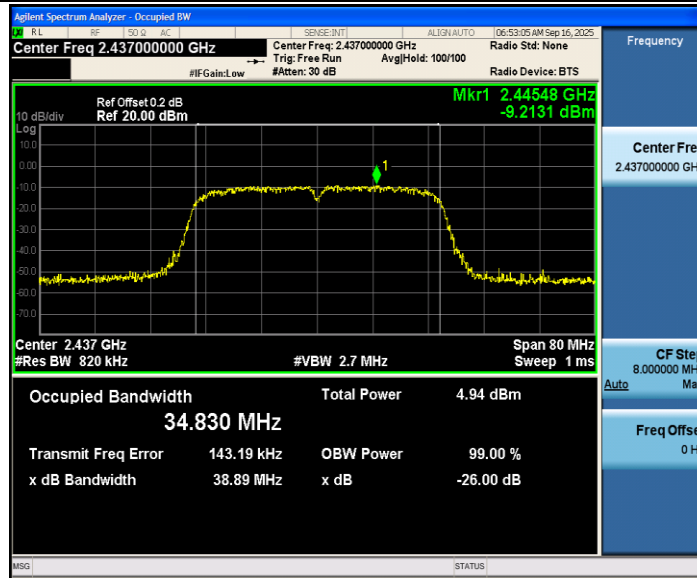
11N20SISO_Ant1_2462



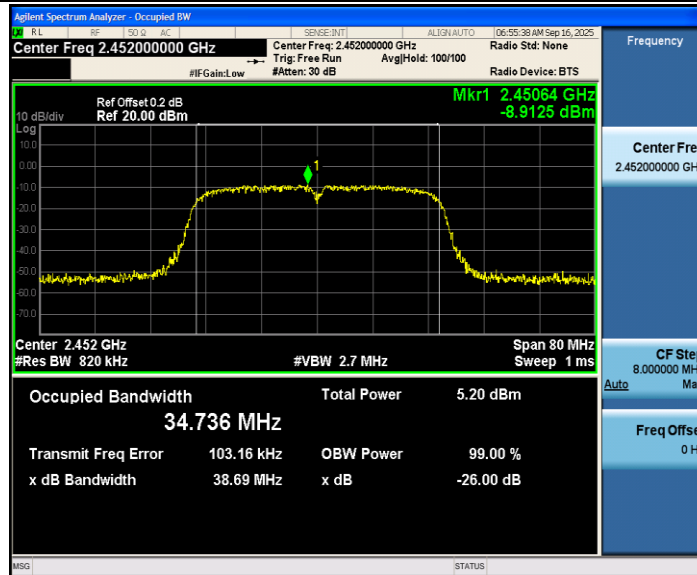
11N40SISO_Ant1_2422



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	7.83	≤30.00	PASS
		2437	7.85	≤30.00	PASS
		2462	8.08	≤30.00	PASS
11G	Ant1	2412	5.51	≤30.00	PASS
		2437	5.86	≤30.00	PASS
		2462	6.27	≤30.00	PASS
11N20SISO	Ant1	2412	5.53	≤30.00	PASS
		2437	6.14	≤30.00	PASS
		2462	6.40	≤30.00	PASS
11N40SISO	Ant1	2422	5.08	≤30.00	PASS
		2437	5.15	≤30.00	PASS
		2452	5.40	≤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	-21.41	≤8.00	PASS
		2437	-20.78	≤8.00	PASS
		2462	-20.67	≤8.00	PASS
11G	Ant1	2412	-28.92	≤8.00	PASS
		2437	-28.51	≤8.00	PASS
		2462	-28.31	≤8.00	PASS
11N20SISO	Ant1	2412	-28.59	≤8.00	PASS
		2437	-28.28	≤8.00	PASS
		2462	-28.00	≤8.00	PASS
11N40SISO	Ant1	2422	-29.53	≤8.00	PASS
		2437	-30.29	≤8.00	PASS
		2452	-29.34	≤8.00	PASS

Test Graphs

11B_Ant1_2412



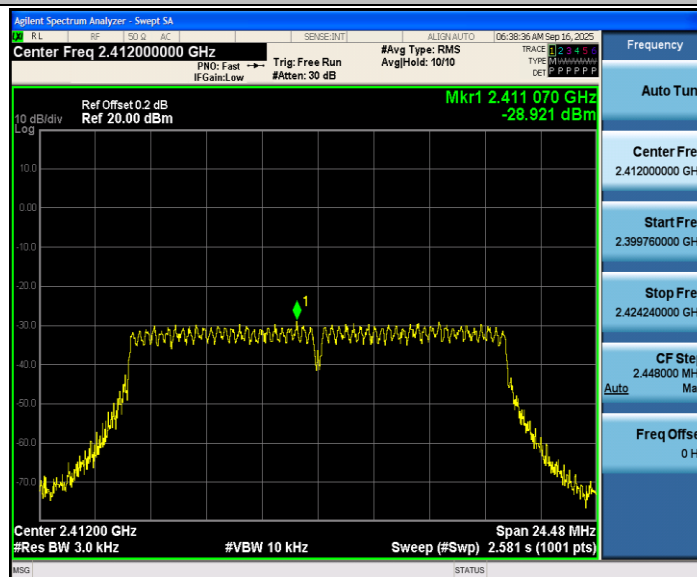
11B_Ant1_2437



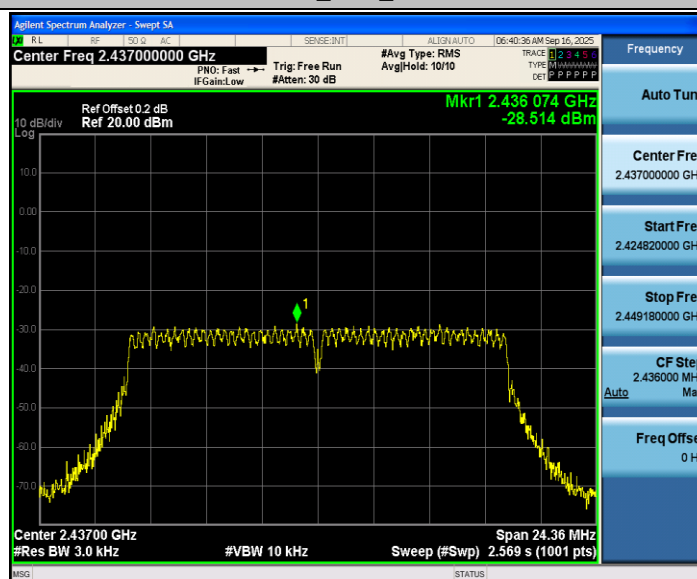
11B_Ant1_2462



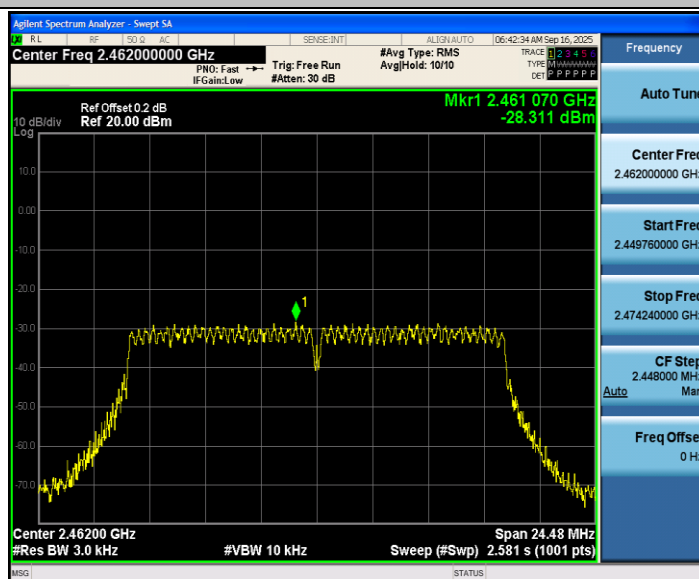
11G_Ant1_2412



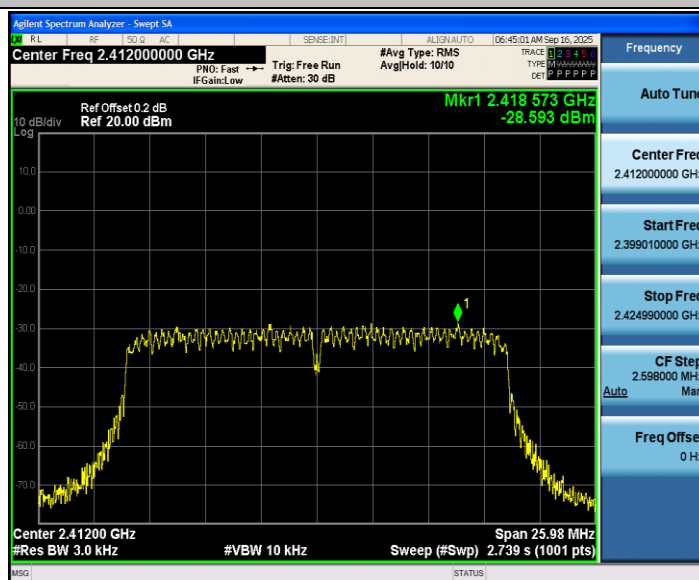
11G_Ant1_2437



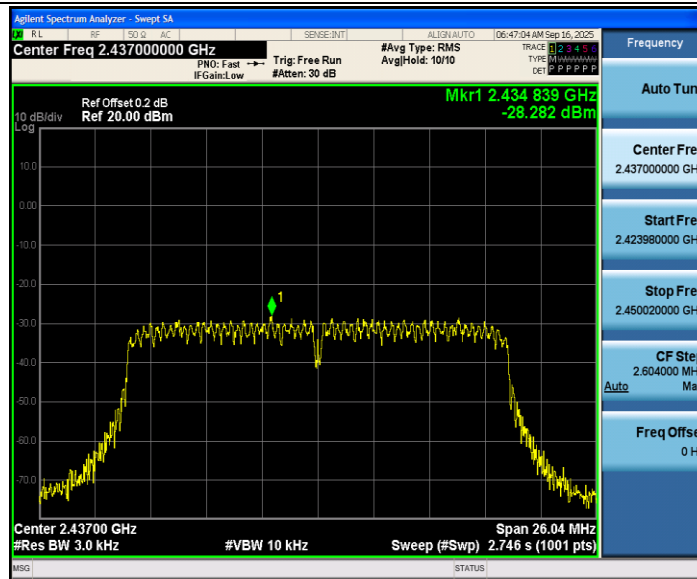
11G_Ant1_2462



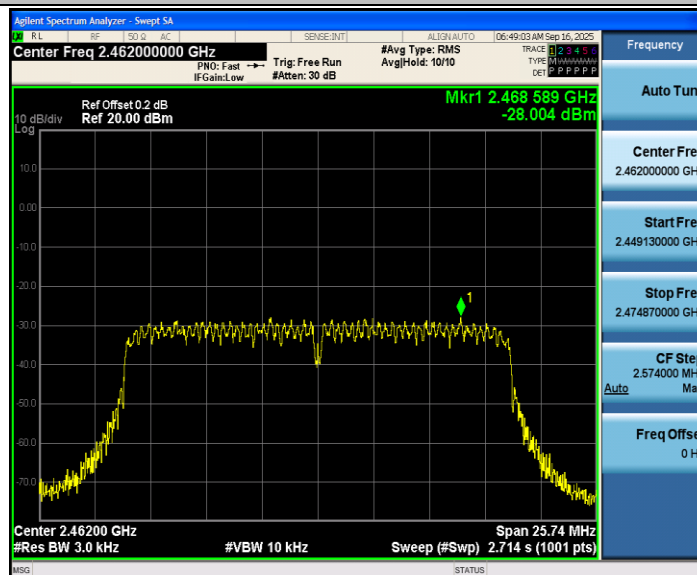
11N20SISO_Ant1_2412



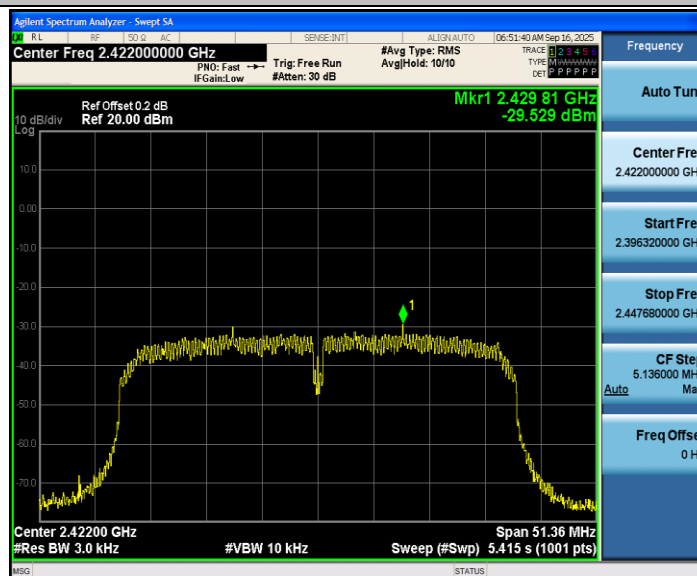
11N20SISO_Ant1_2437



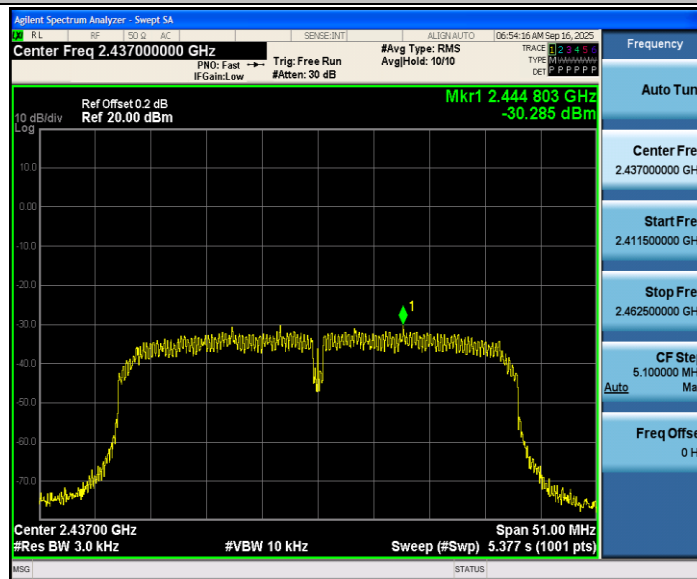
11N20SISO_Ant1_2462



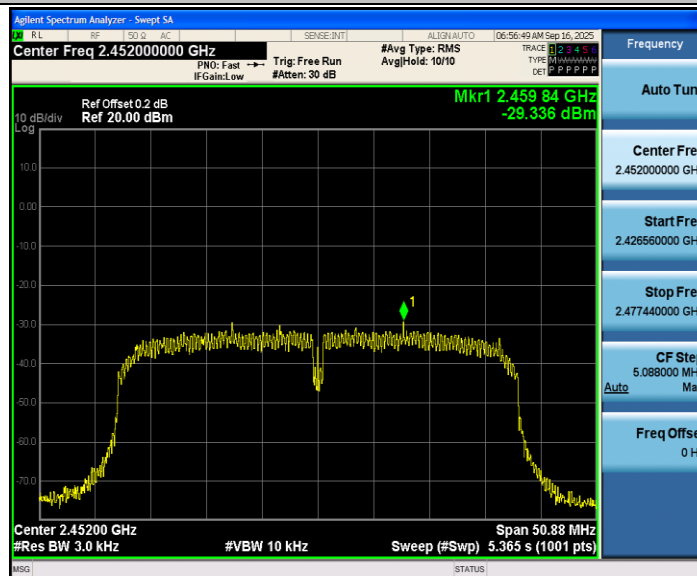
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



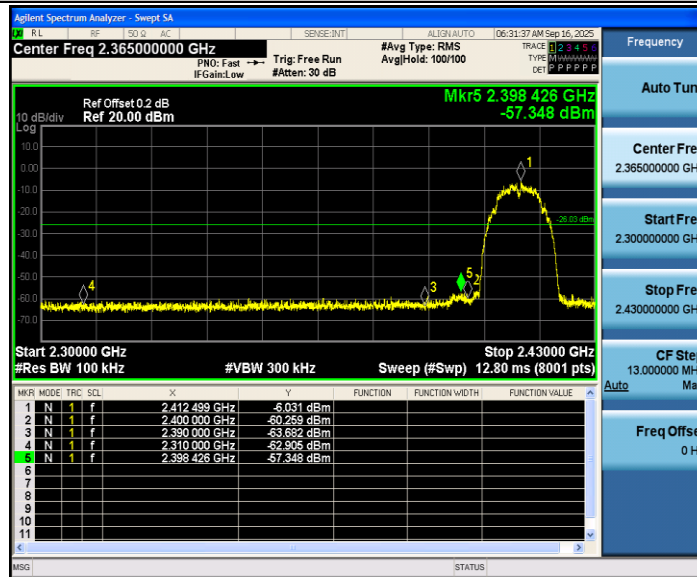
Appendix E: Band edge measurements

Test Result

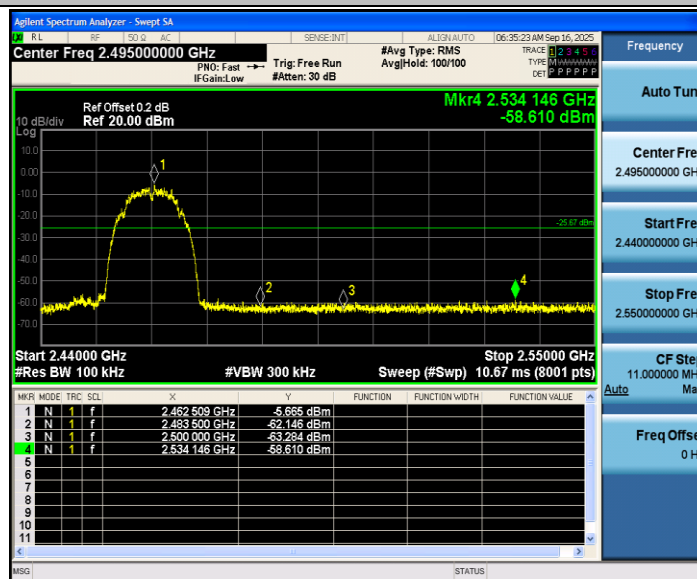
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-6.03	-57.35	≤-26.03	PASS
		High	2462	-5.67	-58.61	≤-25.67	PASS
11G	Ant1	Low	2412	-14.77	-48.22	≤-34.77	PASS
		High	2462	-14.48	-55.13	≤-34.48	PASS
11N20SISO	Ant1	Low	2412	-14.95	-50.86	≤-34.95	PASS
		High	2462	-13.98	-58.49	≤-33.98	PASS
11N40SISO	Ant1	Low	2422	-18.03	-57.38	≤-38.03	PASS
		High	2452	-17.49	-58.89	≤-37.49	PASS

Test Graphs

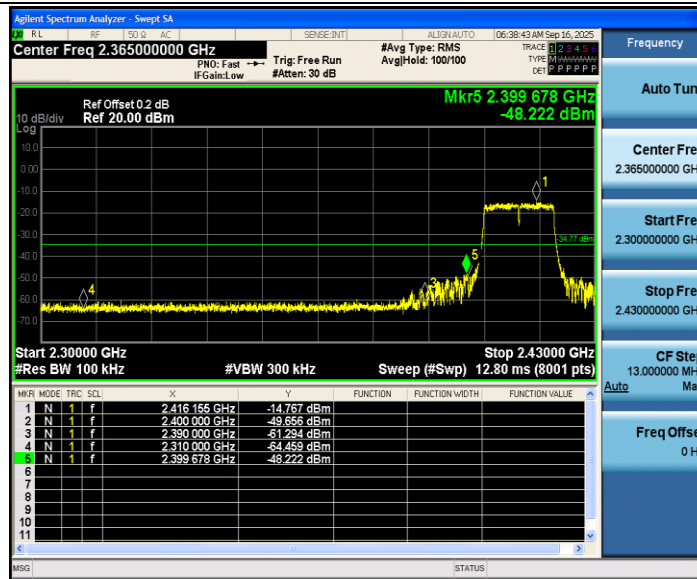
11B_Ant1_Low_2412



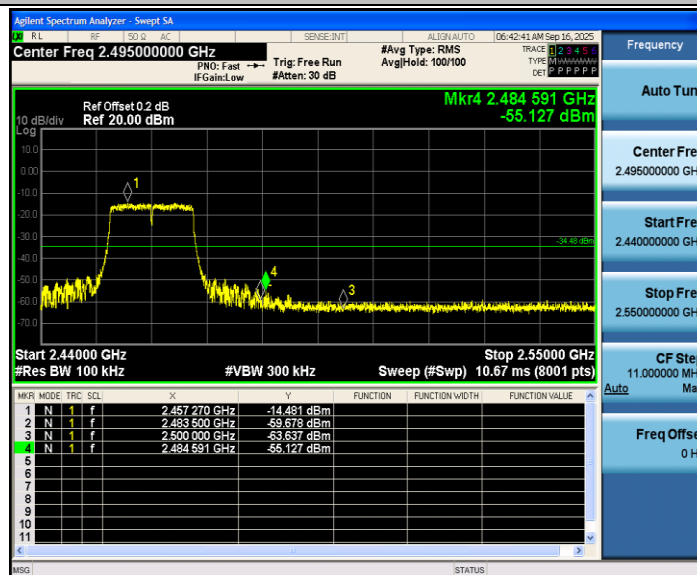
11B_Ant1_High_2462



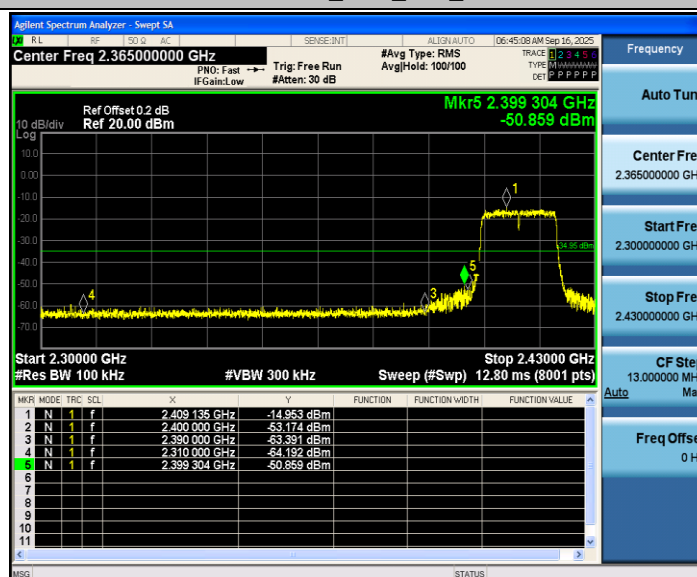
11G_Ant1_Low_2412



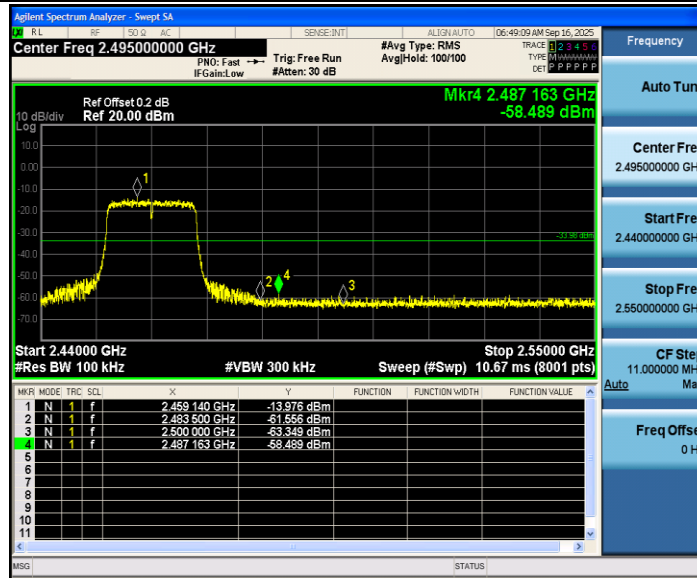
11G_Ant1_High_2462



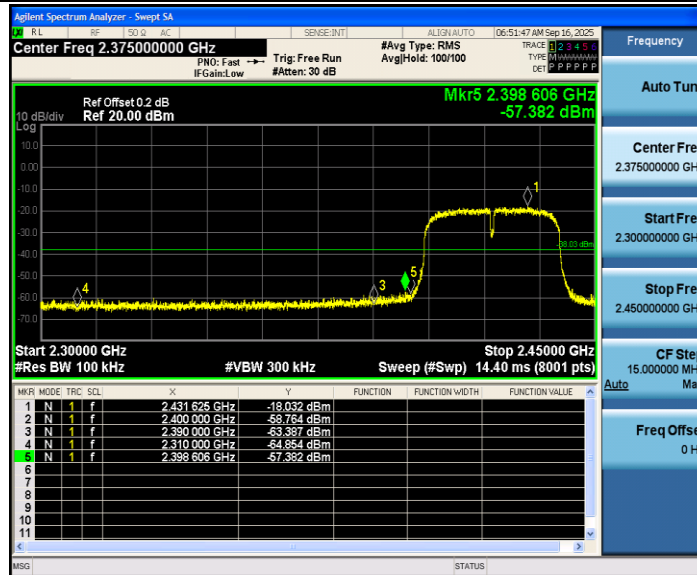
11N20SISO_Ant1_Low_2412



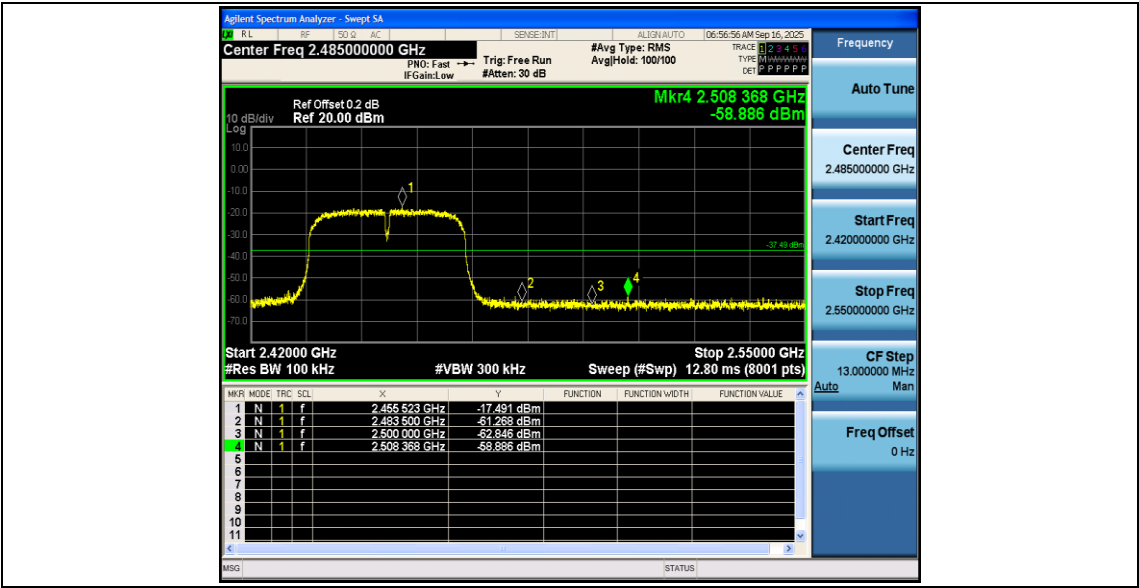
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



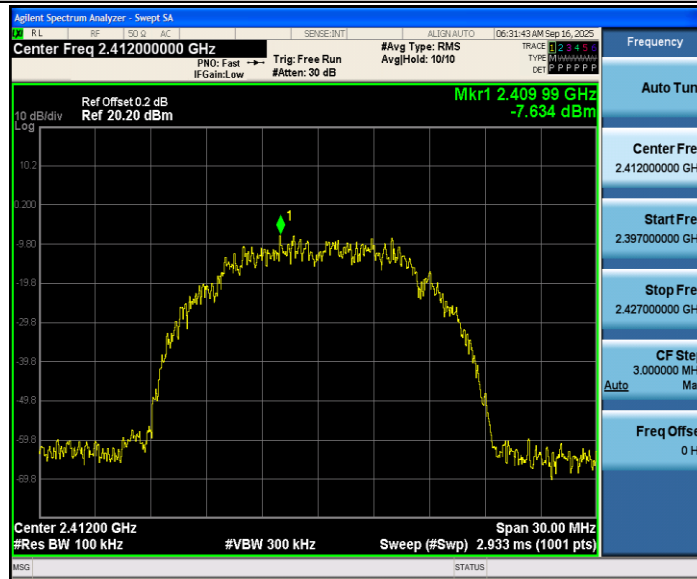
Appendix F: Conducted Spurious Emission

Test Result

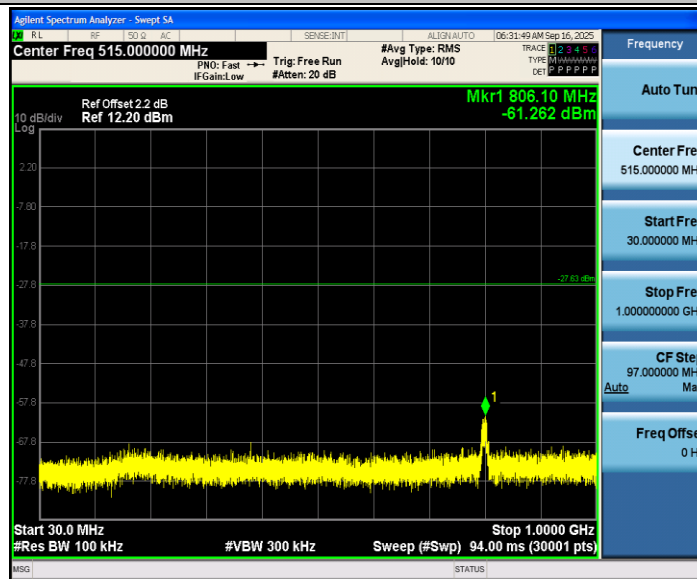
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-7.63	-7.63	---	PASS
			30~1000	-7.63	-61.26	≤-27.63	PASS
			1000~26500	-7.63	-45.01	≤-27.63	PASS
		2437	Reference	-7.08	-7.08	---	PASS
			30~1000	-7.08	-60.72	≤-27.08	PASS
			1000~26500	-7.08	-45.31	≤-27.08	PASS
		2462	Reference	-6.64	-6.64	---	PASS
			30~1000	-6.64	-60.21	≤-26.64	PASS
			1000~26500	-6.64	-45.58	≤-26.64	PASS
11G	Ant1	2412	Reference	-15.62	-15.62	---	PASS
			30~1000	-15.62	-65.22	≤-35.62	PASS
			1000~26500	-15.62	-44.63	≤-35.62	PASS
		2437	Reference	-15.38	-15.38	---	PASS
			30~1000	-15.38	-65.1	≤-35.38	PASS
			1000~26500	-15.38	-44.97	≤-35.38	PASS
		2462	Reference	-14.86	-14.86	---	PASS
			30~1000	-14.86	-64.44	≤-34.86	PASS
			1000~26500	-14.86	-45.68	≤-34.86	PASS
11N20SISO	Ant1	2412	Reference	-15.83	-15.83	---	PASS
			30~1000	-15.83	-65.81	≤-35.83	PASS
			1000~26500	-15.83	-44.59	≤-35.83	PASS
		2437	Reference	-14.60	-14.60	---	PASS
			30~1000	-14.60	-65.51	≤-34.6	PASS
			1000~26500	-14.60	-44.97	≤-34.6	PASS
		2462	Reference	-14.75	-14.75	---	PASS
			30~1000	-14.75	-65.2	≤-34.75	PASS
			1000~26500	-14.75	-45.6	≤-34.75	PASS
11N40SISO	Ant1	2422	Reference	-17.90	-17.90	---	PASS
			30~1000	-17.90	-66.44	≤-37.9	PASS
			1000~26500	-17.90	-44.9	≤-37.9	PASS
		2437	Reference	-17.95	-17.95	---	PASS
			30~1000	-17.95	-66.22	≤-37.95	PASS
			1000~26500	-17.95	-44.94	≤-37.95	PASS
		2452	Reference	-18.02	-18.02	---	PASS
			30~1000	-18.02	-65.92	≤-38.02	PASS
			1000~26500	-18.02	-45.61	≤-38.02	PASS

Test Graphs

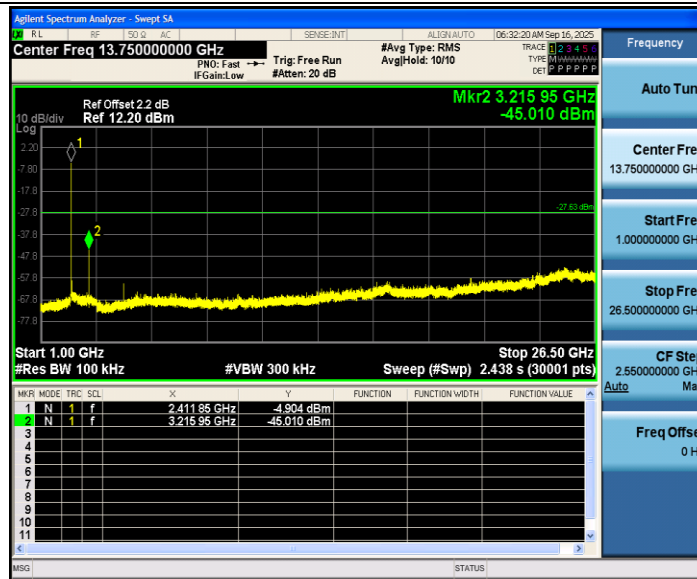
11B_Ant1_2412_0~Reference



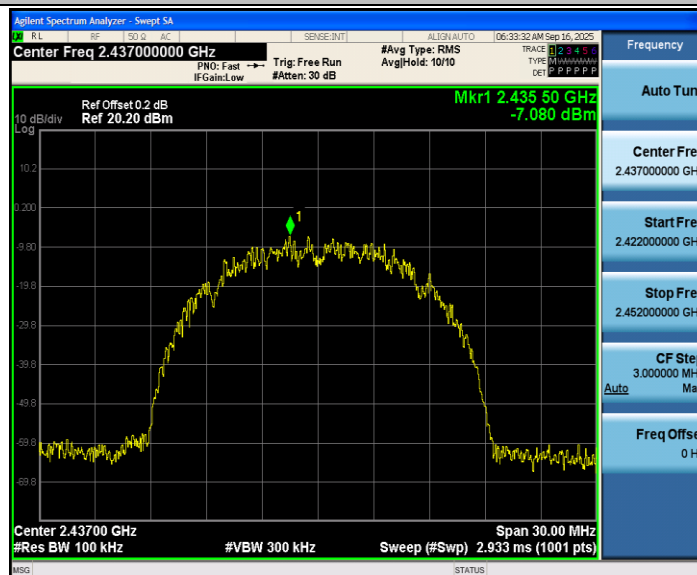
11B_Ant1_2412_30~1000



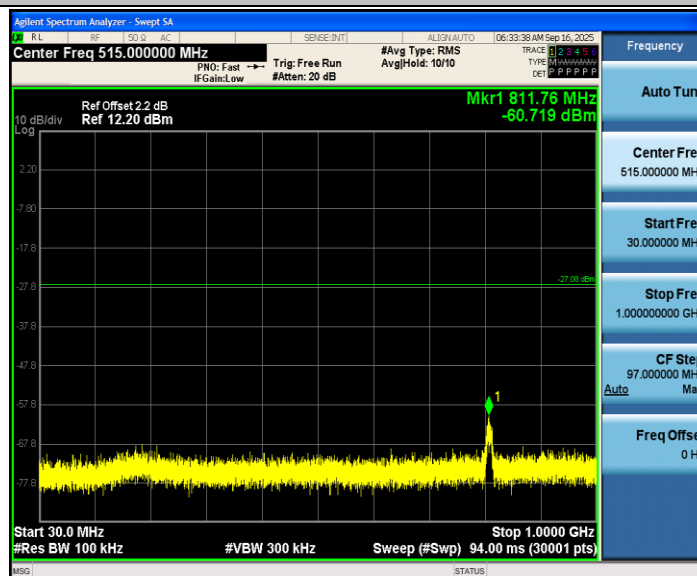
11B_Ant1_2412_1000~26500



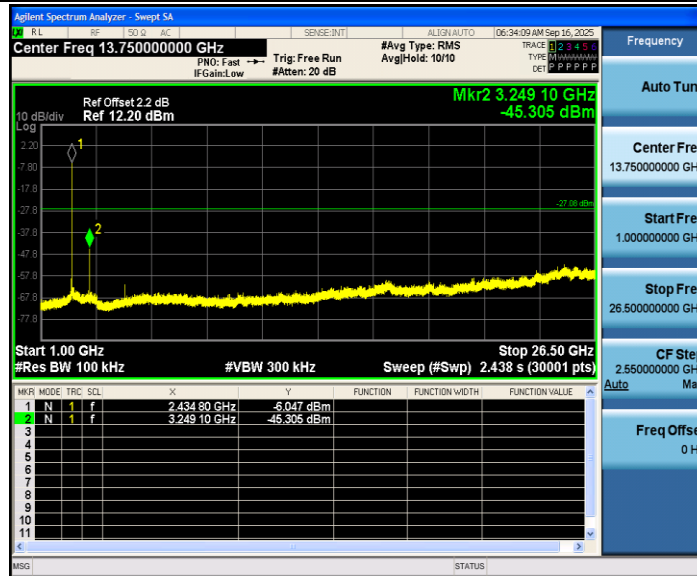
11B_Ant1_2437_0~Reference



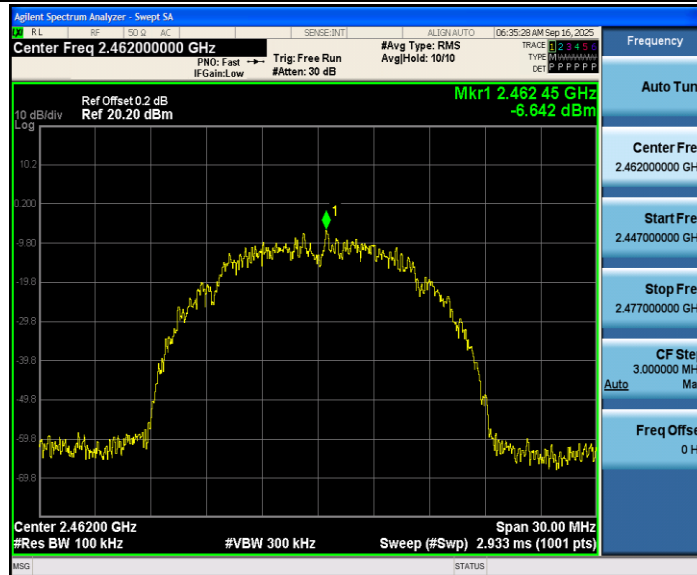
11B_Ant1_2437_30~1000



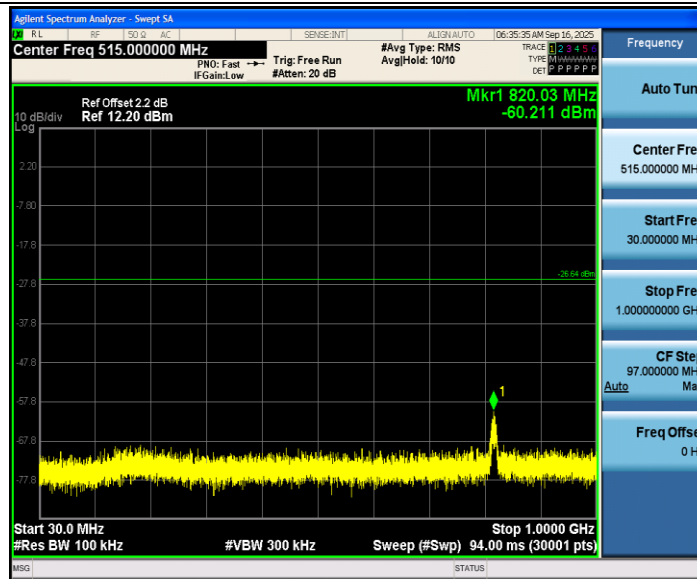
11B_Ant1_2437_1000~26500



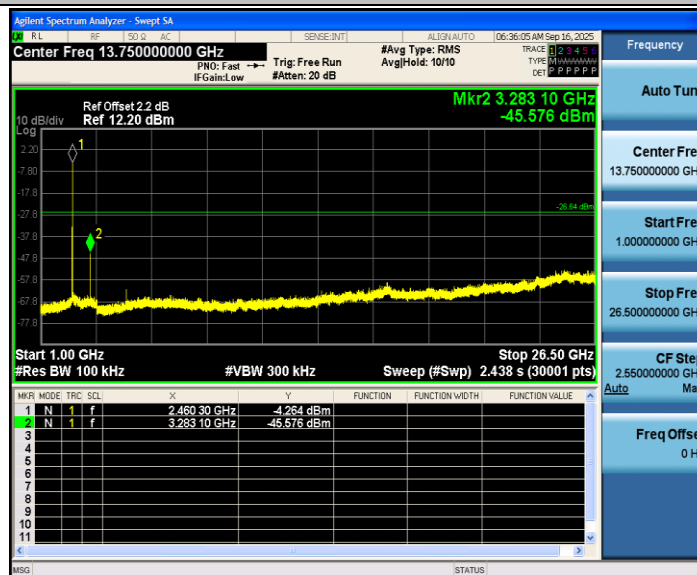
11B_Ant1_2462_0~Reference



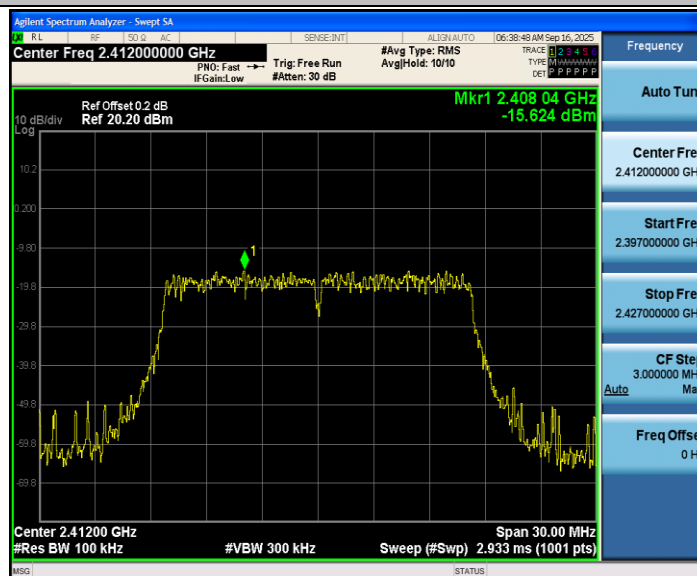
11B_Ant1_2462_30~1000



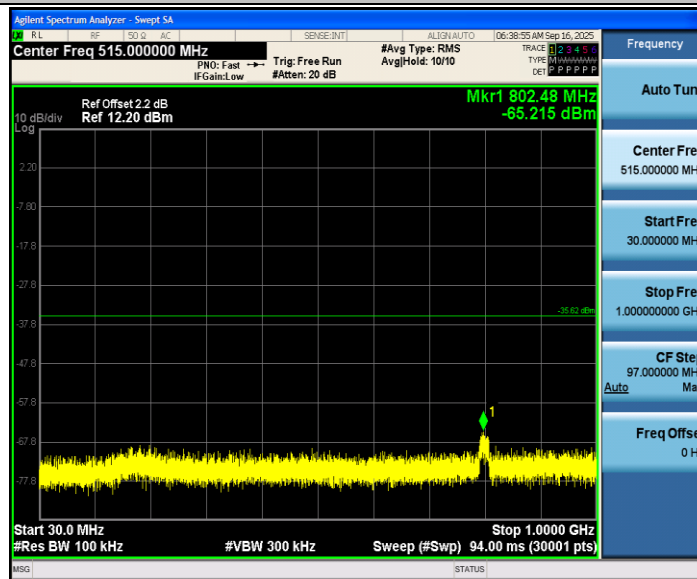
11B_Ant1_2462_1000~26500



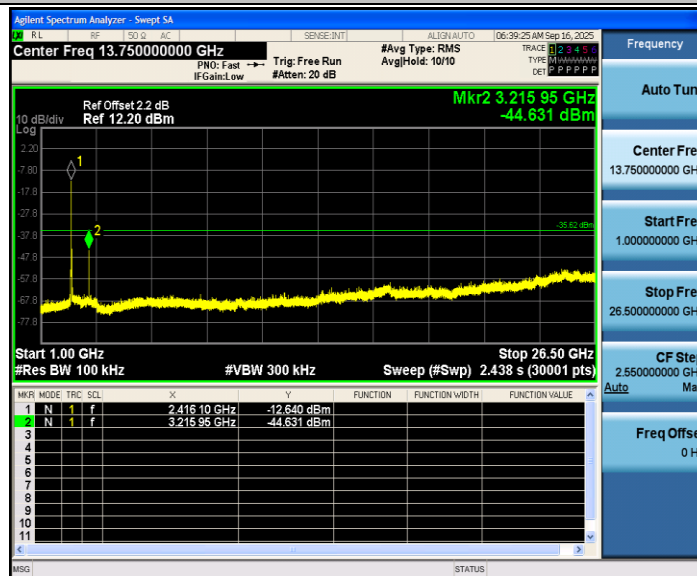
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



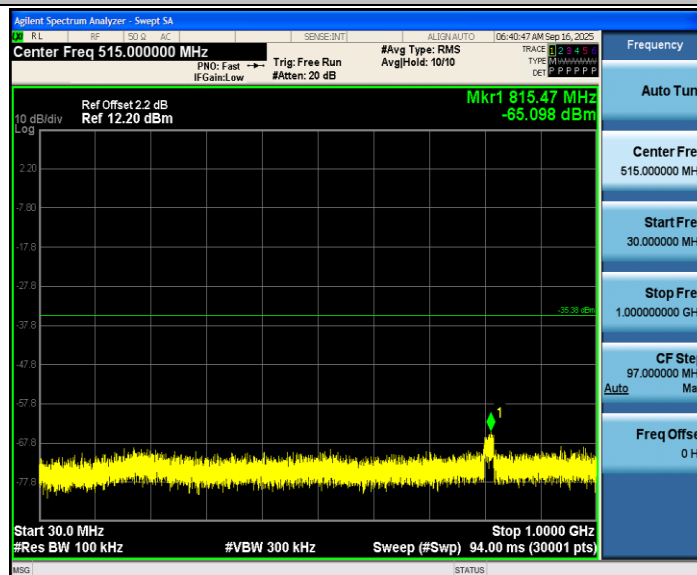
11G_Ant1_2412_1000~26500



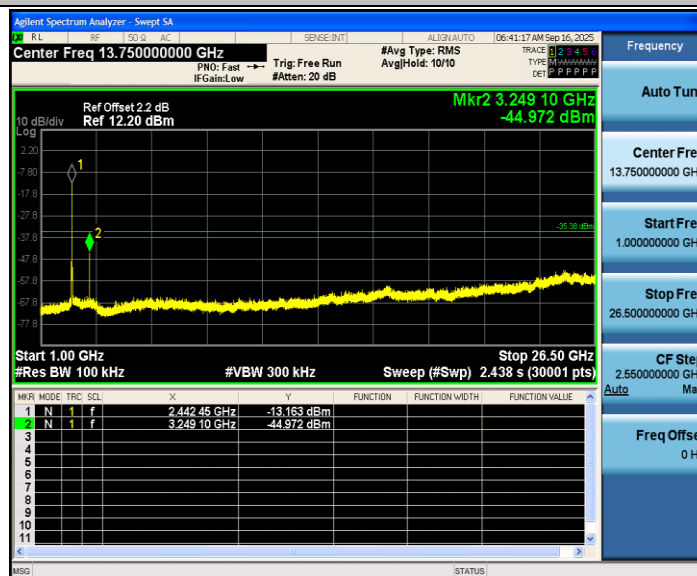
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



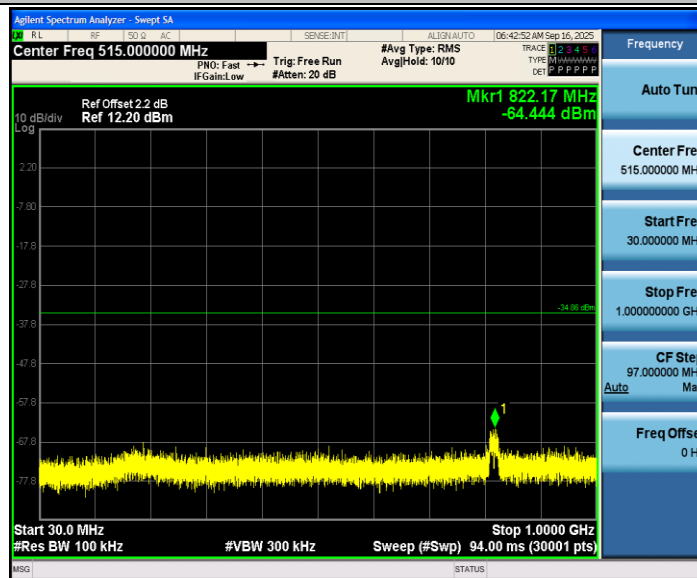
11G_Ant1_2437_1000~26500



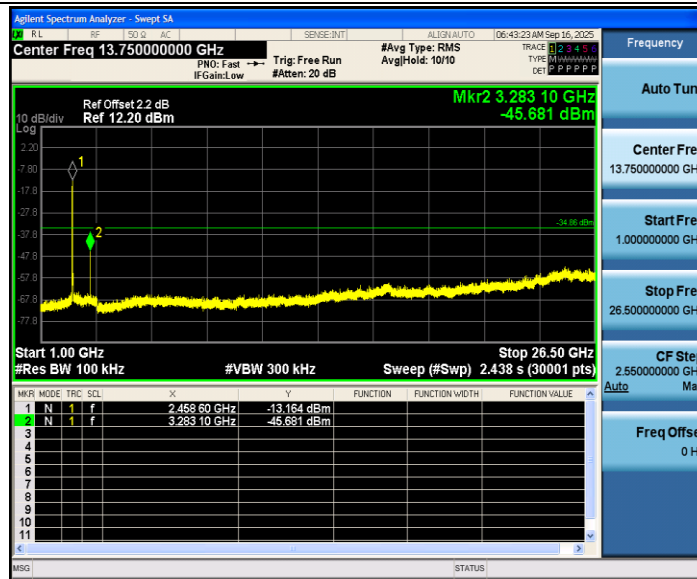
11G_Ant1_2462_0~Reference



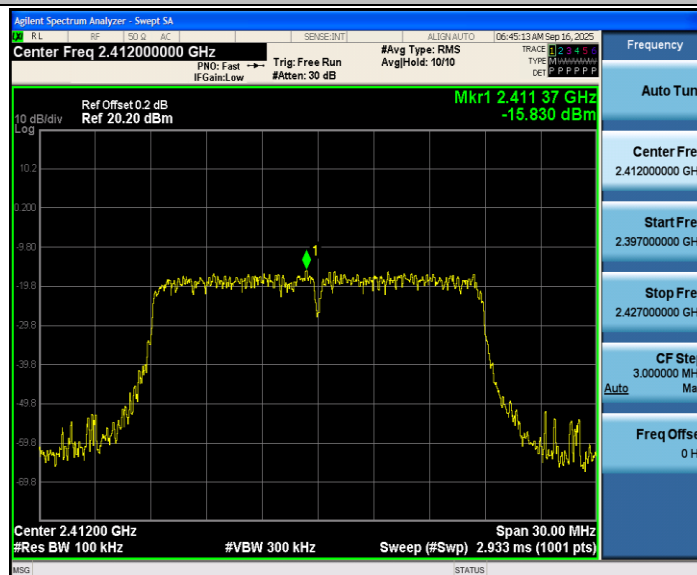
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

