

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BTTF-R1012Y
Company : OPTIKA S.R.L
EUT : Tablet PC
Model Number : R1012Y
Report No. : CTA25112501403
Reviewed By : Eric Wang

Appendix A: DTS Bandwidth

Test Result

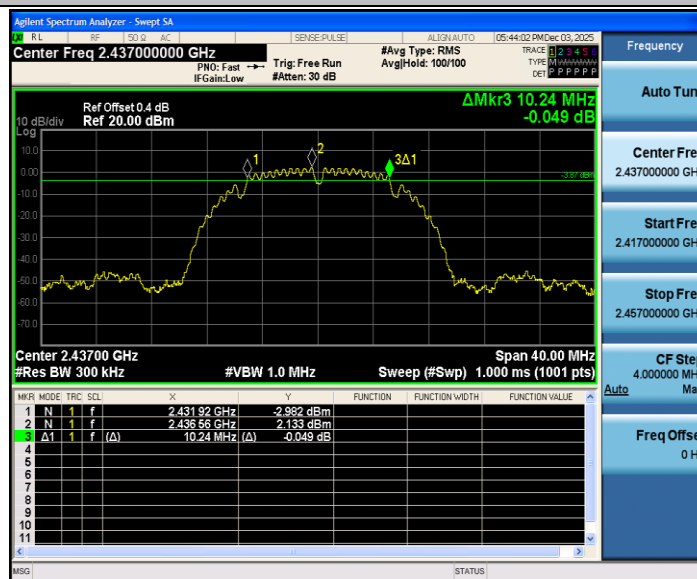
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.240	2406.920	2417.160	0.5	PASS
		2437	10.240	2431.920	2442.160	0.5	PASS
		2462	10.240	2456.920	2467.160	0.5	PASS
11G	Ant1	2412	16.120	2404.000	2420.120	0.5	PASS
		2437	15.880	2429.080	2444.960	0.5	PASS
		2462	16.000	2454.080	2470.080	0.5	PASS
11N20SISO	Ant1	2412	17.000	2403.320	2420.320	0.5	PASS
		2437	17.320	2428.400	2445.720	0.5	PASS
		2462	17.200	2453.360	2470.560	0.5	PASS
11N40SISO	Ant1	2422	35.680	2404.320	2440.000	0.5	PASS
		2437	35.760	2419.160	2454.920	0.5	PASS
		2452	35.760	2434.240	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



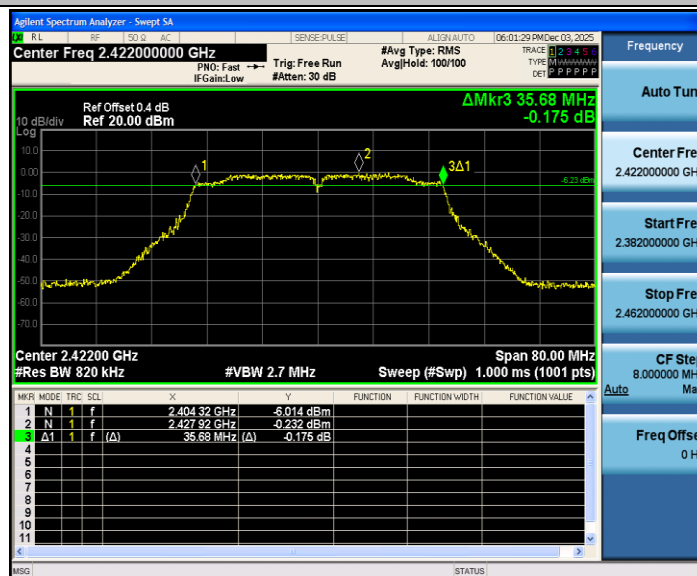
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



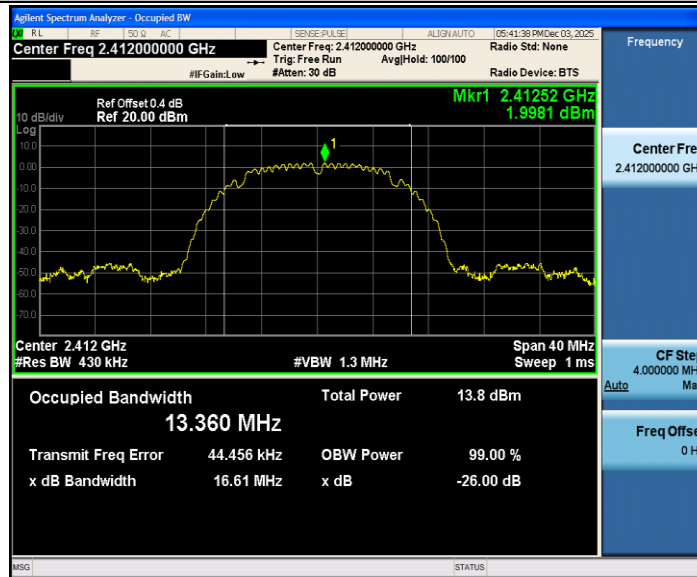
Appendix B: Occupied Channel Bandwidth

Test Result

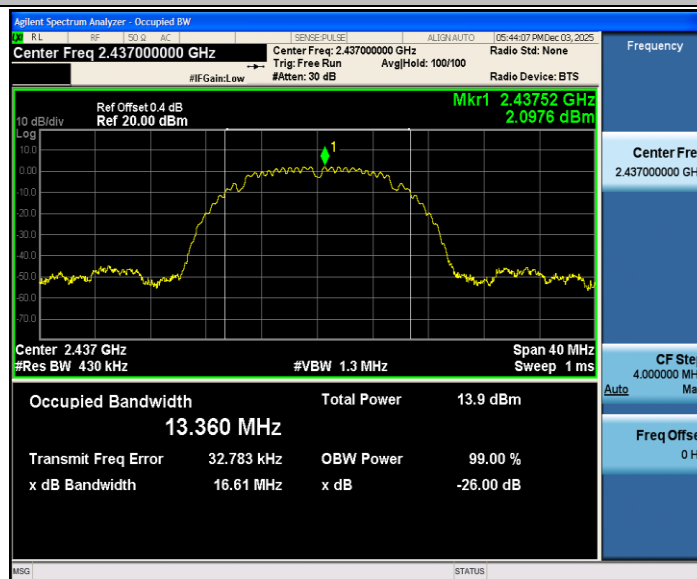
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.360	2405.3645	2418.7245	---	---
		2437	13.360	2430.3528	2443.7128	---	---
		2462	13.373	2455.3302	2468.7032	---	---
11G	Ant1	2412	16.748	2403.7115	2420.4595	---	---
		2437	16.736	2428.7026	2445.4386	---	---
		2462	16.744	2453.6881	2470.4321	---	---
11N20SISO	Ant1	2412	17.795	2403.1414	2420.9364	---	---
		2437	17.792	2428.1391	2445.9311	---	---
		2462	17.794	2453.1301	2470.9241	---	---
11N40SISO	Ant1	2422	35.988	2404.0599	2440.0479	---	---
		2437	36.068	2419.0337	2455.1017	---	---
		2452	36.035	2434.0878	2470.1228	---	---

Test Graphs

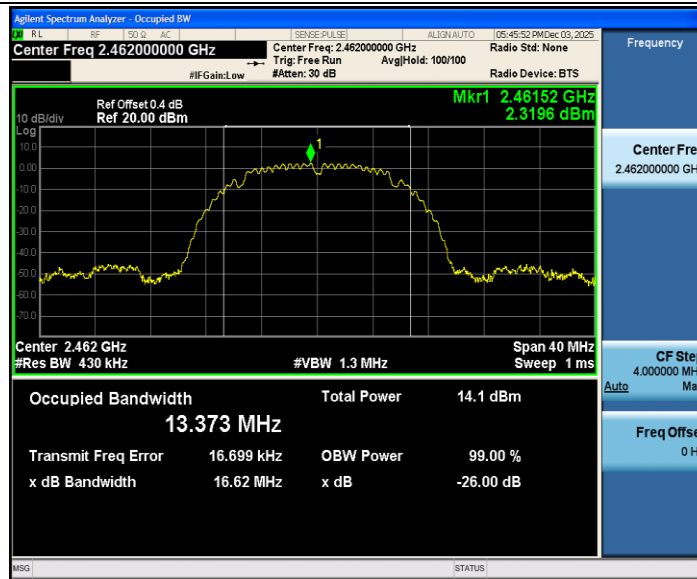
11B_Ant1_2412



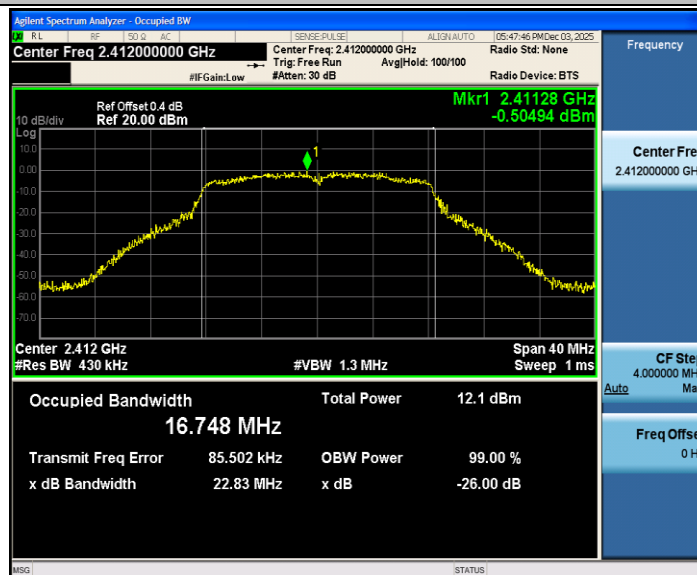
11B_Ant1_2437



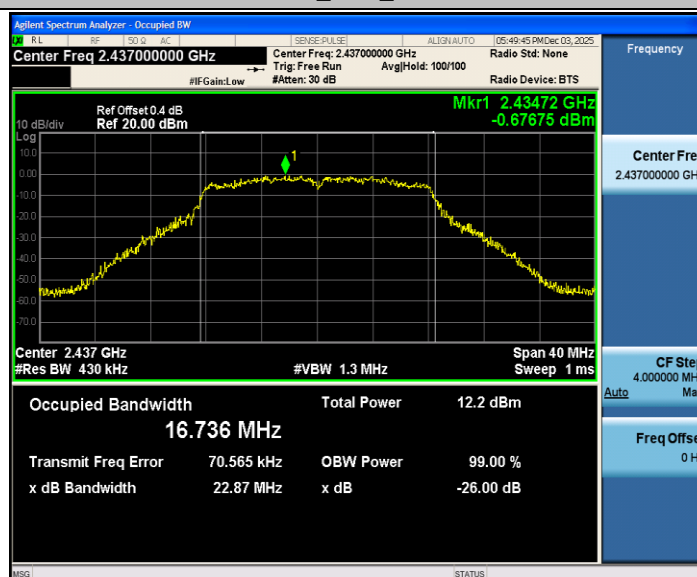
11B_Ant1_2462



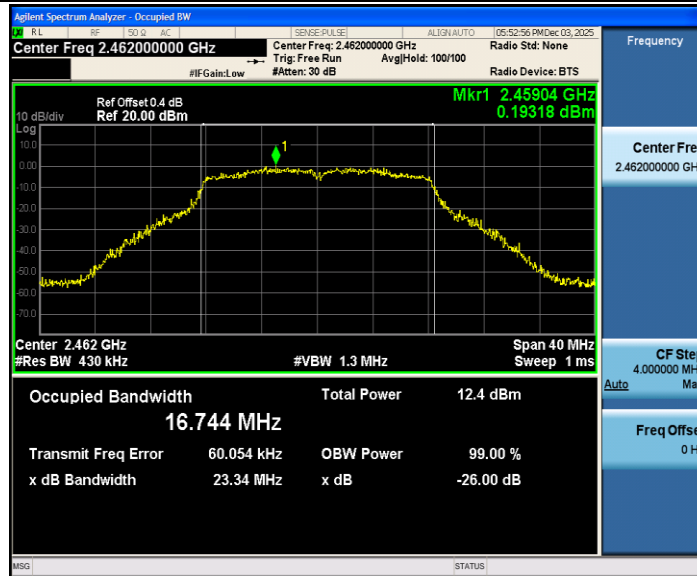
11G_Ant1_2412



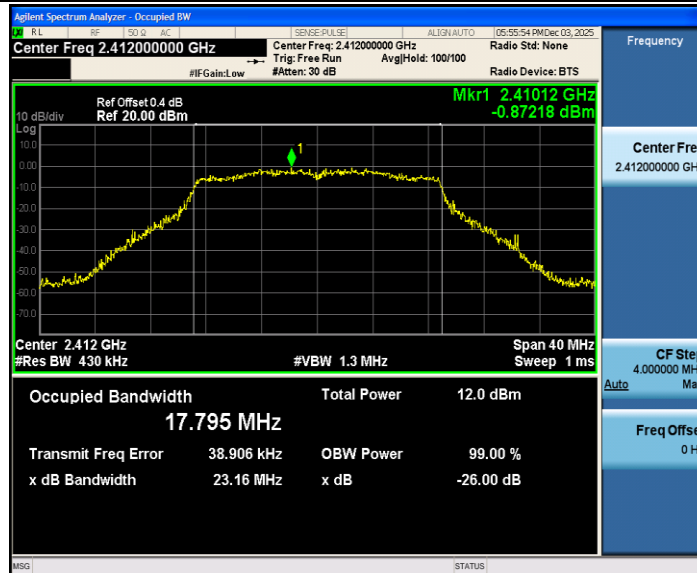
11G_Ant1_2437



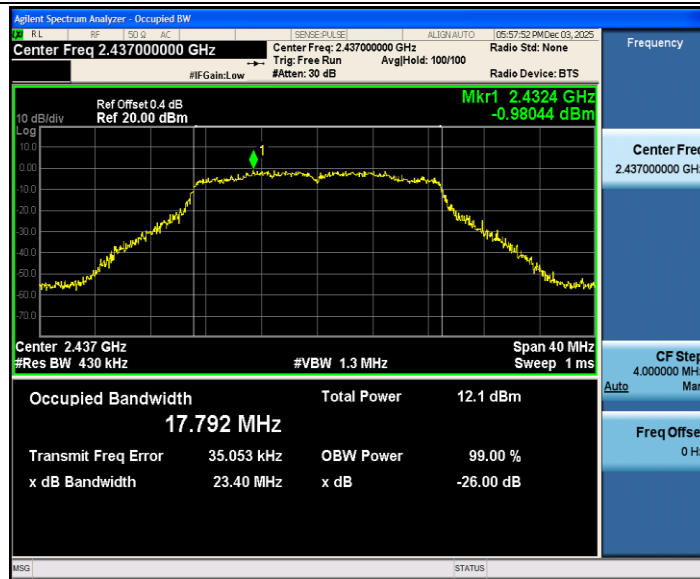
11G_Ant1_2462



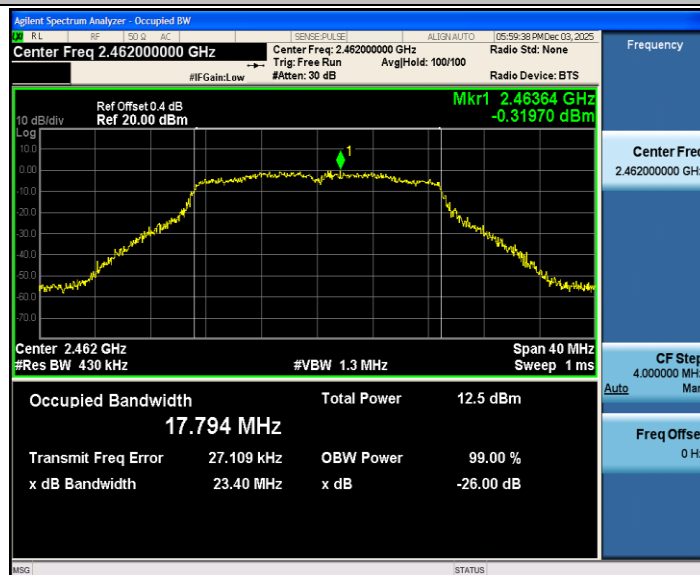
11N20SISO_Ant1_2412



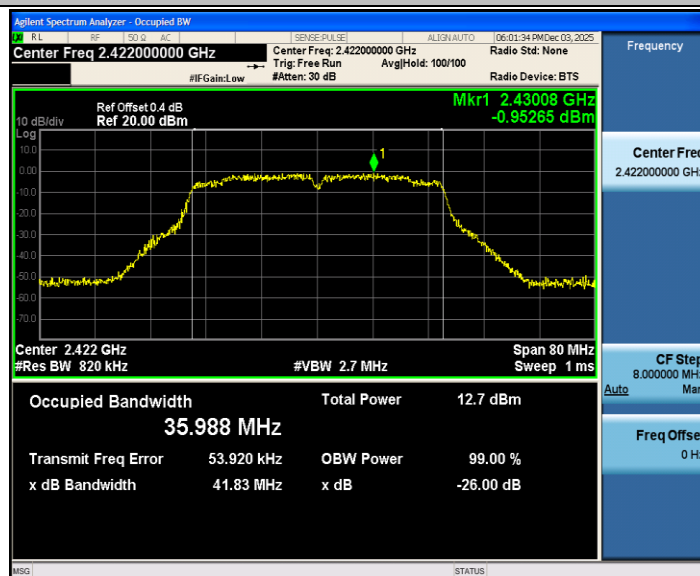
11N20SISO_Ant1_2437



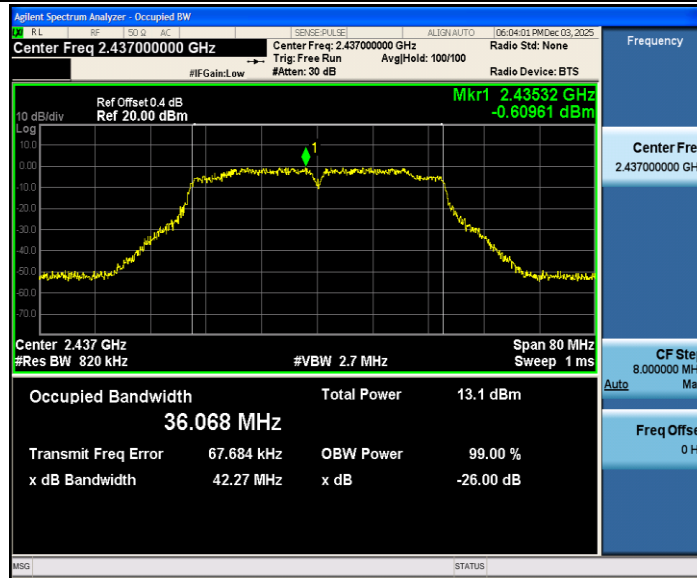
11N20SISO_Ant1_2462



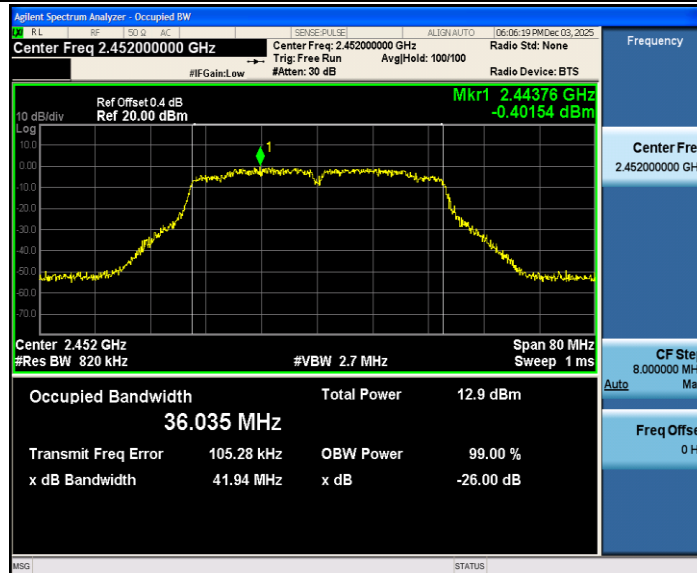
11N40SISO_Ant1_2422



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	13.65	≤30.00	PASS
		2437	13.77	≤30.00	PASS
		2462	14.02	≤30.00	PASS
11G	Ant1	2412	12.78	≤30.00	PASS
		2437	12.84	≤30.00	PASS
		2462	12.99	≤30.00	PASS
11N20SISO	Ant1	2412	12.48	≤30.00	PASS
		2437	12.88	≤30.00	PASS
		2462	12.90	≤30.00	PASS
11N40SISO	Ant1	2422	12.85	≤30.00	PASS
		2437	13.32	≤30.00	PASS
		2452	13.12	≤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	-12.58	≤8.00	PASS
		2437	-12.67	≤8.00	PASS
		2462	-11.30	≤8.00	PASS
11G	Ant1	2412	-17.35	≤8.00	PASS
		2437	-18.01	≤8.00	PASS
		2462	-17.91	≤8.00	PASS
11N20SISO	Ant1	2412	-18.30	≤8.00	PASS
		2437	-17.95	≤8.00	PASS
		2462	-16.88	≤8.00	PASS
11N40SISO	Ant1	2422	-20.45	≤8.00	PASS
		2437	-20.36	≤8.00	PASS
		2452	-20.76	≤8.00	PASS

Test Graphs

11B_Ant1_2412



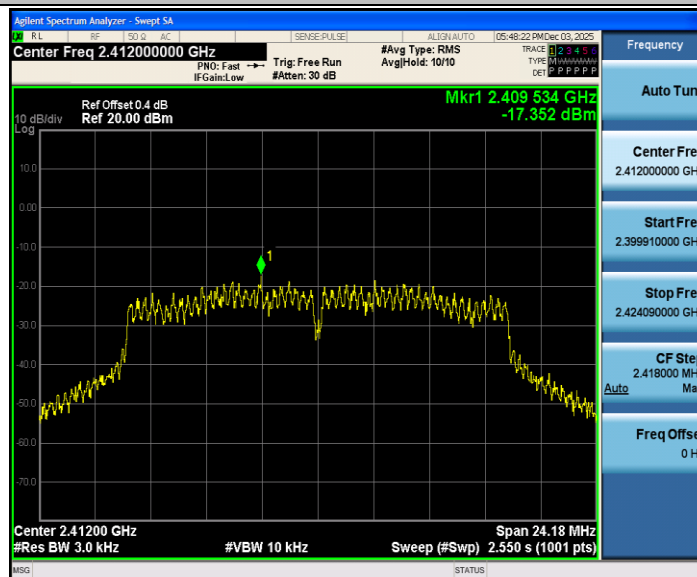
11B_Ant1_2437



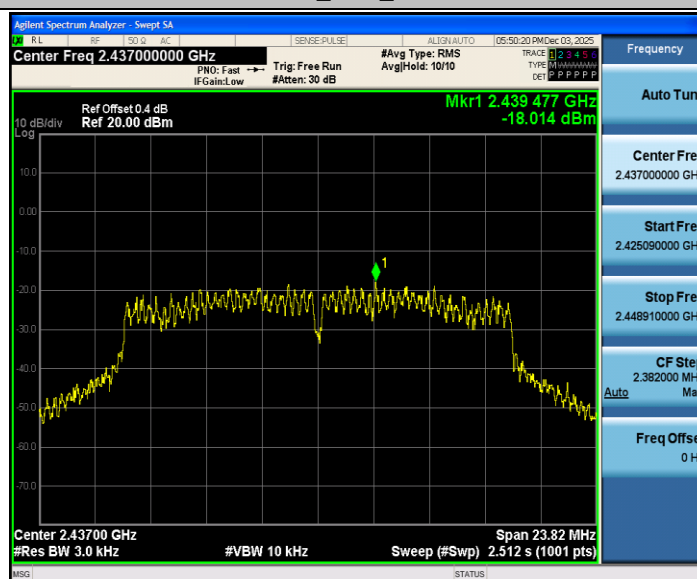
11B_Ant1_2462



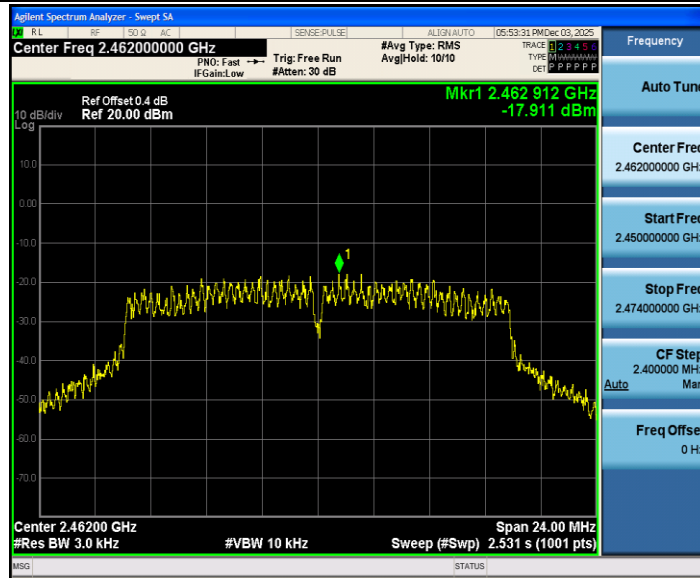
11G_Ant1_2412



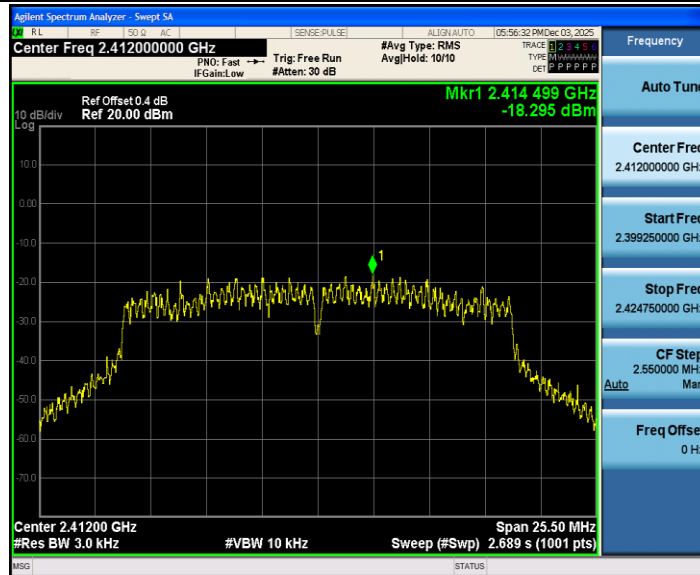
11G_Ant1_2437



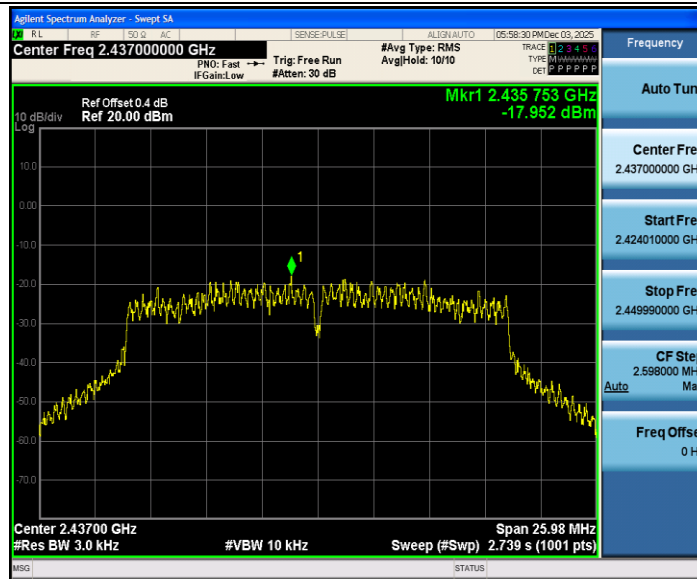
11G_Ant1_2462



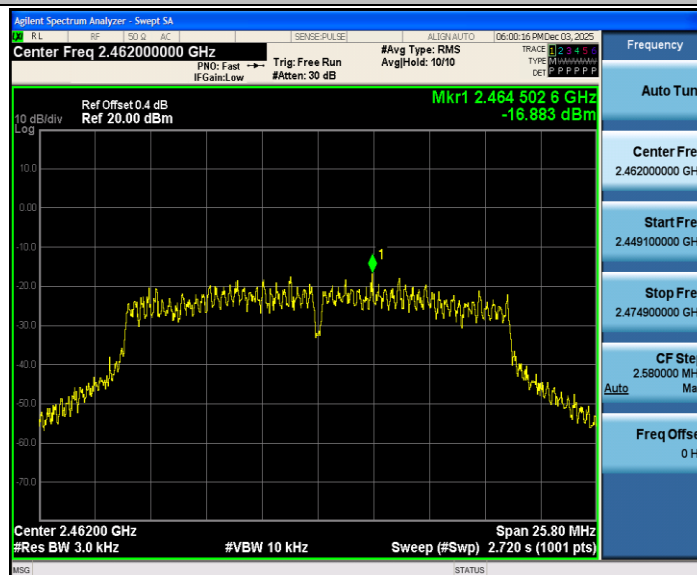
11N20SISO_Ant1_2412



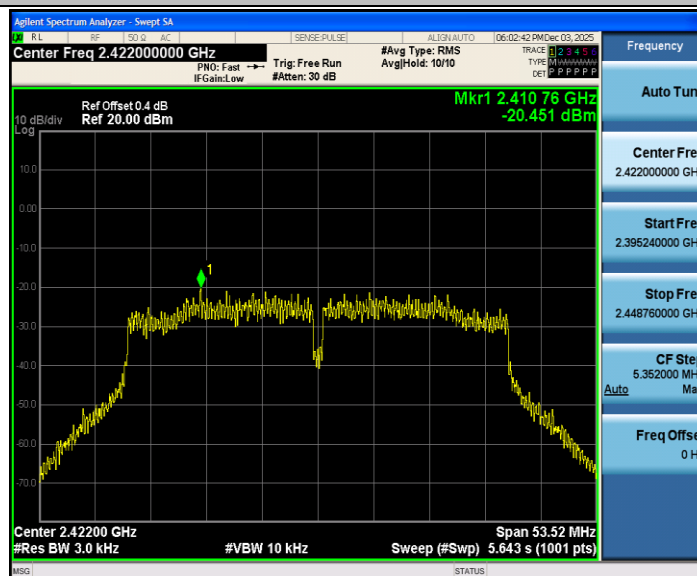
11N20SISO_Ant1_2437



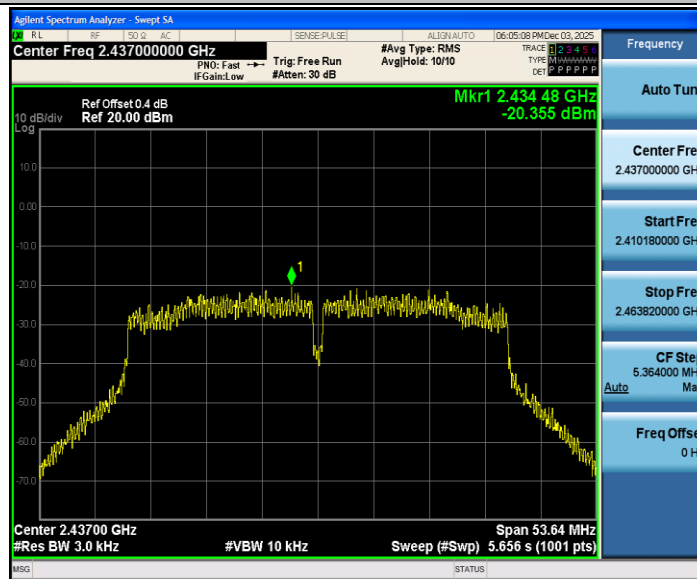
11N20SISO_Ant1_2462



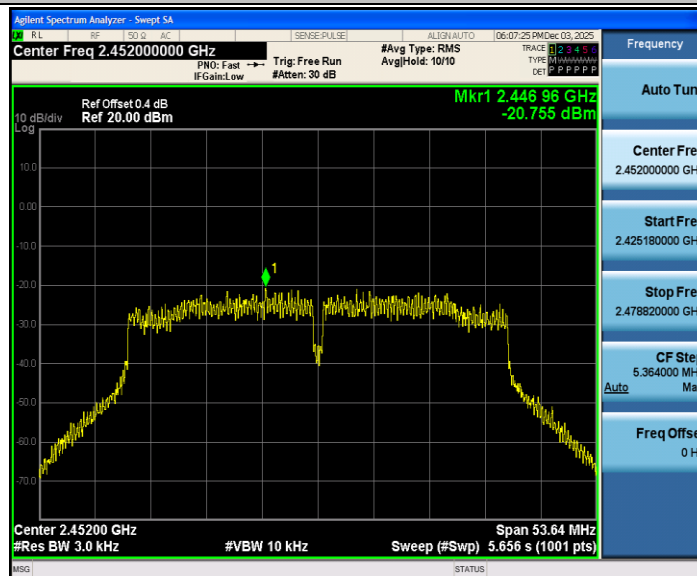
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



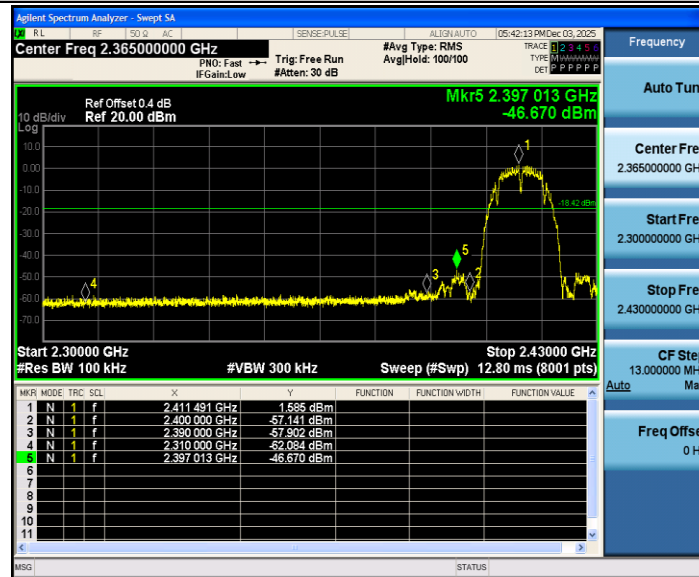
Appendix E: Band edge measurements

Test Result

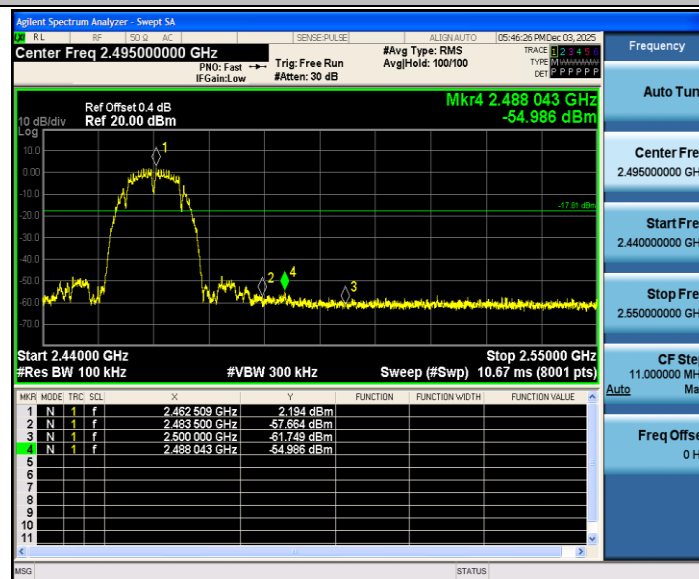
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.59	-46.67	≤-18.42	PASS
		High	2462	2.19	-54.99	≤-17.81	PASS
11G	Ant1	Low	2412	-2.96	-35.69	≤-22.96	PASS
		High	2462	-2.60	-56.94	≤-22.6	PASS
11N20SISO	Ant1	Low	2412	-3.02	-35.04	≤-23.02	PASS
		High	2462	-2.84	-57.7	≤-22.84	PASS
11N40SISO	Ant1	Low	2422	-6.21	-33.84	≤-26.21	PASS
		High	2452	-6.01	-56.89	≤-26.01	PASS

Test Graphs

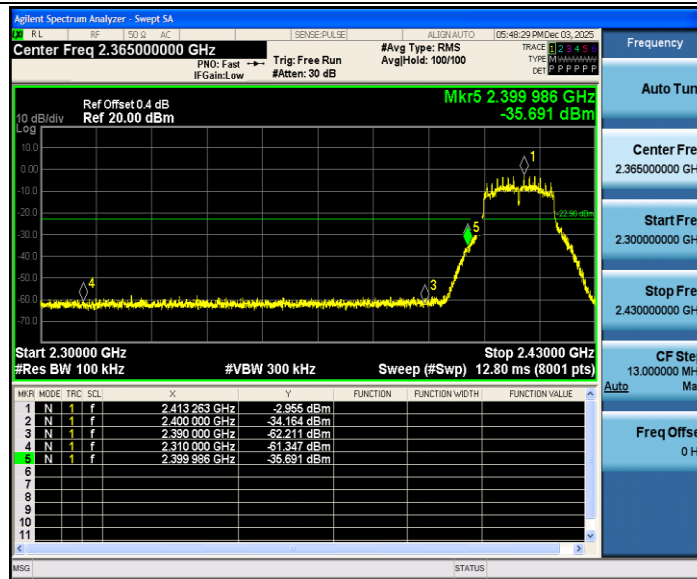
11B_Ant1_Low_2412



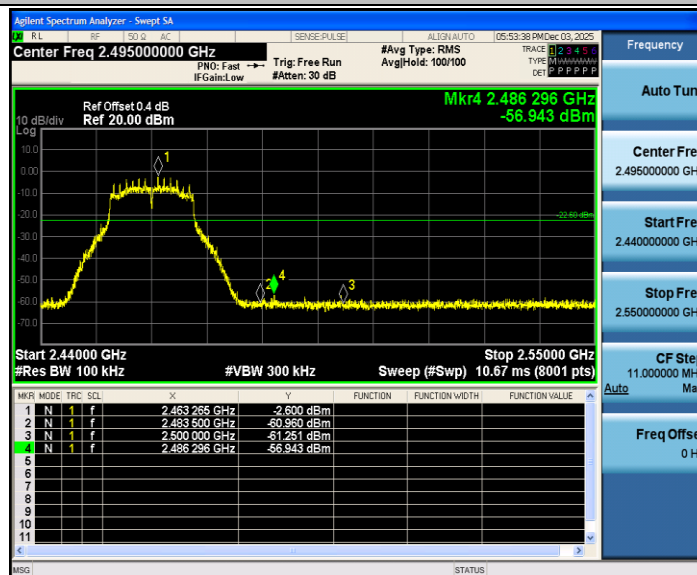
11B_Ant1_High_2462



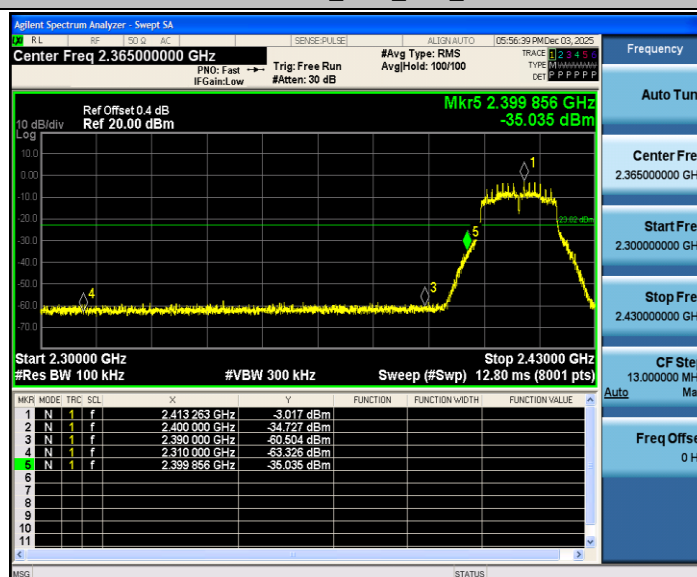
11G_Ant1_Low_2412



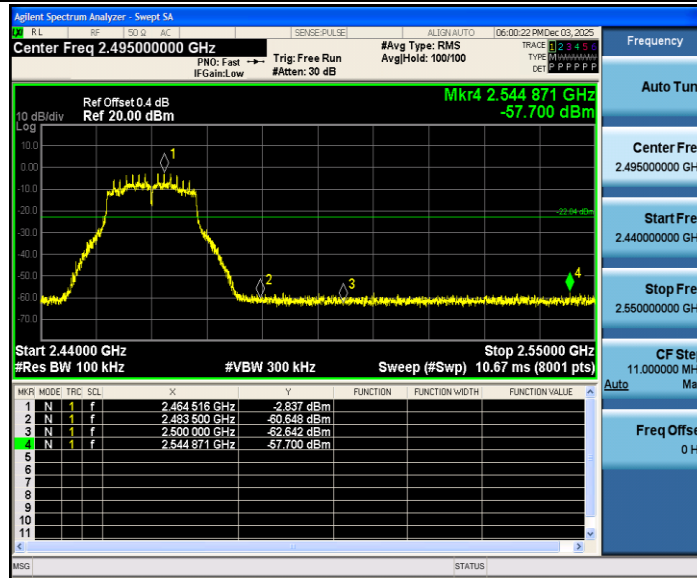
11G_Ant1_High_2462



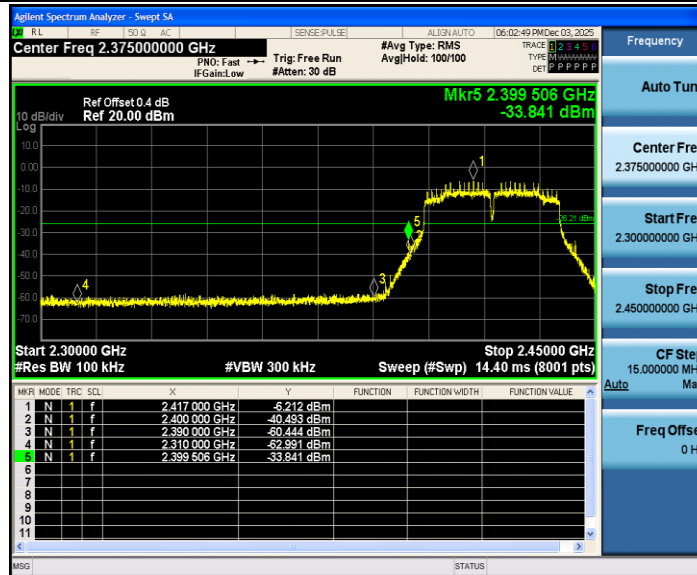
11N20SISO_Ant1_Low_2412



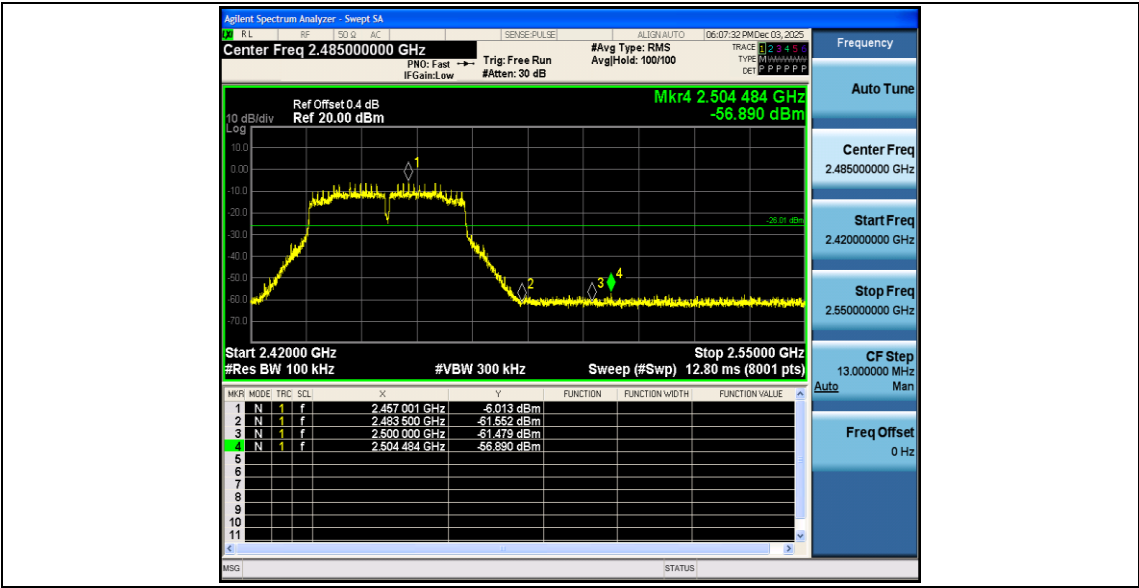
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

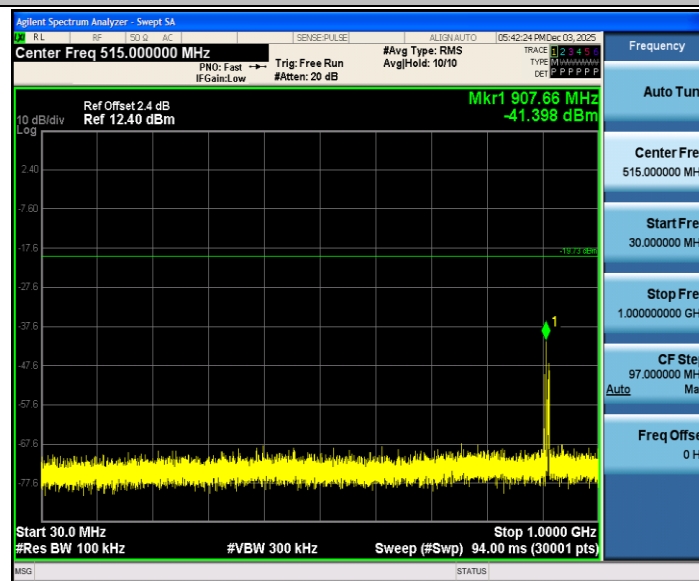
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.27	0.27	---	PASS
			30~1000	0.27	-41.4	≤-19.73	PASS
			1000~26500	0.27	-54.69	≤-19.73	PASS
		2437	Reference	0.80	0.80	---	PASS
			30~1000	0.80	-47.73	≤-19.2	PASS
			1000~26500	0.80	-55.07	≤-19.2	PASS
		2462	Reference	0.02	0.02	---	PASS
			30~1000	0.02	-67.61	≤-19.98	PASS
			1000~26500	0.02	-55.25	≤-19.98	PASS
11G	Ant1	2412	Reference	-4.33	-4.33	---	PASS
			30~1000	-4.33	-67.67	≤-24.33	PASS
			1000~26500	-4.33	-55.25	≤-24.33	PASS
		2437	Reference	-3.18	-3.18	---	PASS
			30~1000	-3.18	-68.15	≤-23.18	PASS
			1000~26500	-3.18	-54.76	≤-23.18	PASS
		2462	Reference	-2.65	-2.65	---	PASS
			30~1000	-2.65	-68.1	≤-22.65	PASS
			1000~26500	-2.65	-55.19	≤-22.65	PASS
11N20SISO	Ant1	2412	Reference	-3.23	-3.23	---	PASS
			30~1000	-3.23	-48.35	≤-23.23	PASS
			1000~26500	-3.23	-54.89	≤-23.23	PASS
		2437	Reference	-3.33	-3.33	---	PASS
			30~1000	-3.33	-43.8	≤-23.33	PASS
			1000~26500	-3.33	-54.62	≤-23.33	PASS
		2462	Reference	-4.99	-4.99	---	PASS
			30~1000	-4.99	-67.02	≤-24.99	PASS
			1000~26500	-4.99	-54.76	≤-24.99	PASS
11N40SISO	Ant1	2422	Reference	-6.56	-6.56	---	PASS
			30~1000	-6.56	-67.37	≤-26.56	PASS
			1000~26500	-6.56	-55.21	≤-26.56	PASS
		2437	Reference	-6.04	-6.04	---	PASS
			30~1000	-6.04	-68.26	≤-26.04	PASS
			1000~26500	-6.04	-55.18	≤-26.04	PASS
		2452	Reference	-6.24	-6.24	---	PASS
			30~1000	-6.24	-68.24	≤-26.24	PASS
			1000~26500	-6.24	-55.46	≤-26.24	PASS

Test Graphs

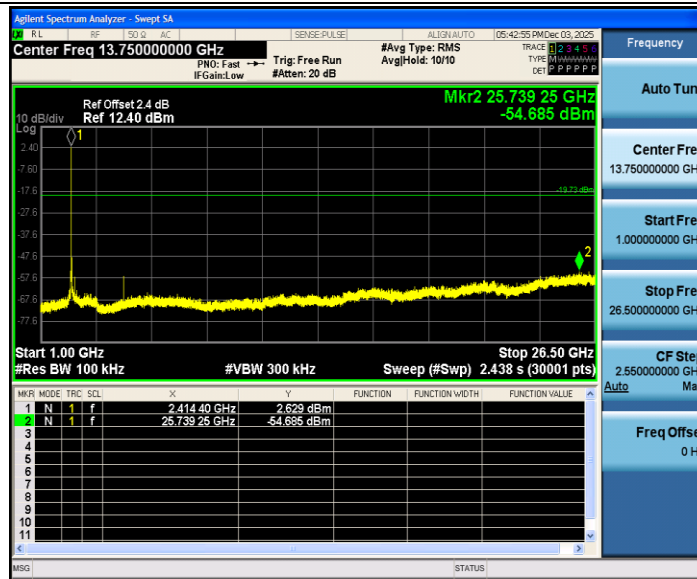
11B_Ant1_2412_0~Reference



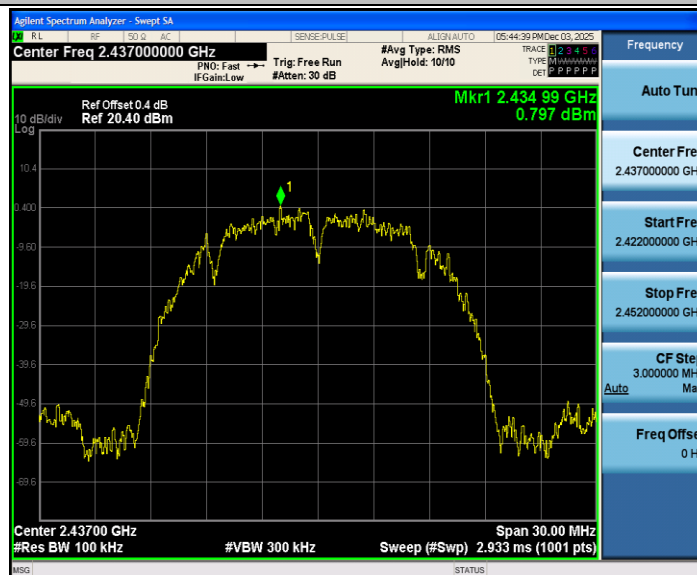
11B_Ant1_2412_30~1000



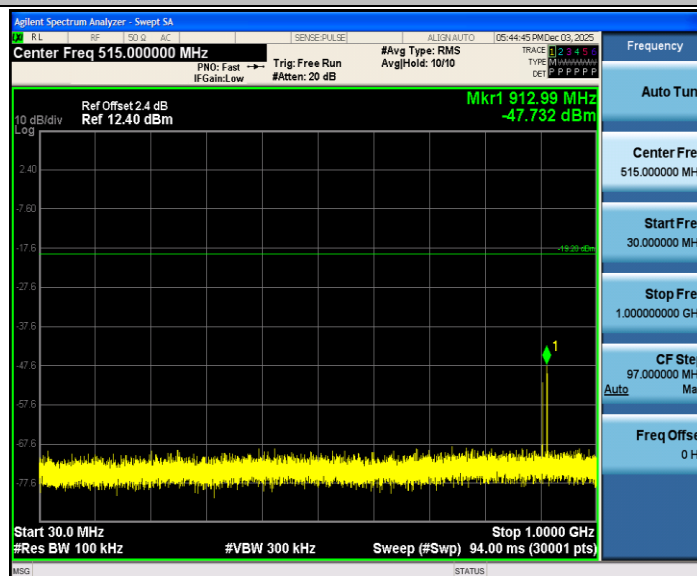
11B_Ant1_2412_1000~26500



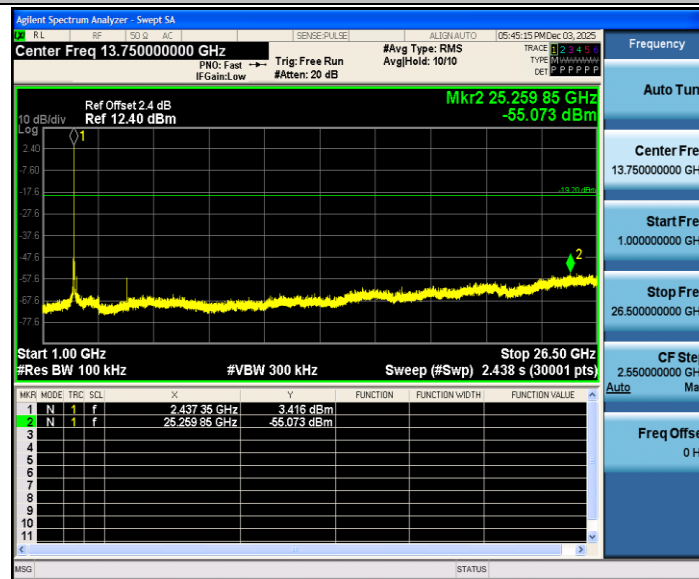
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



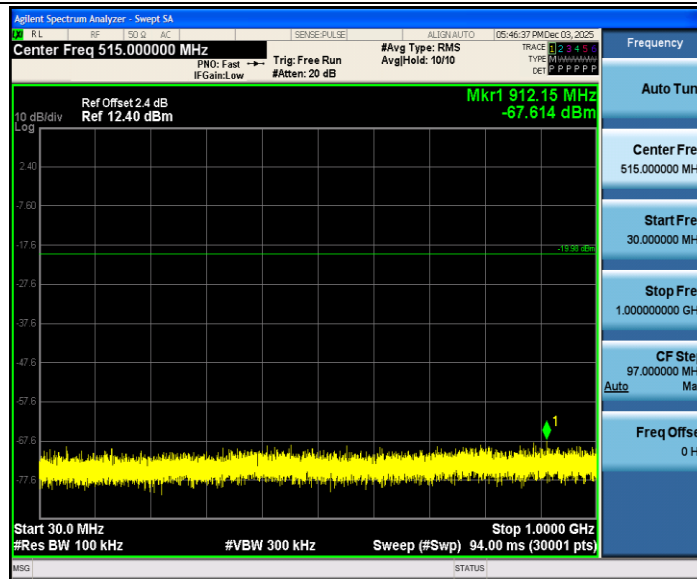
11B_Ant1_2437_1000~26500



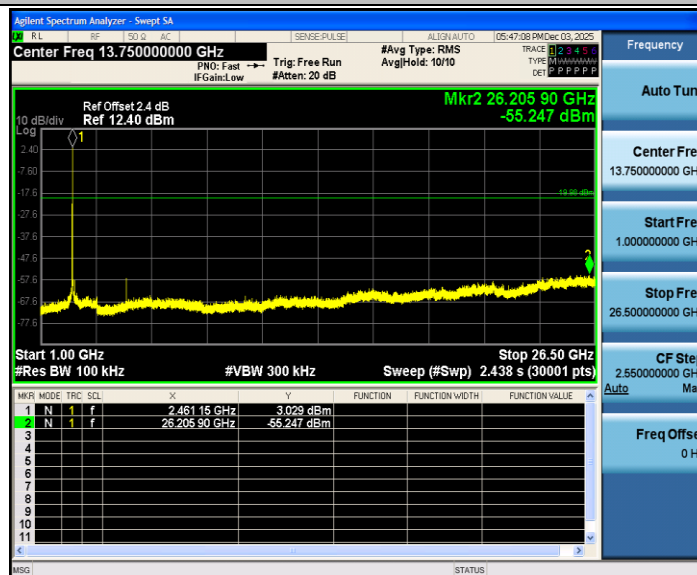
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



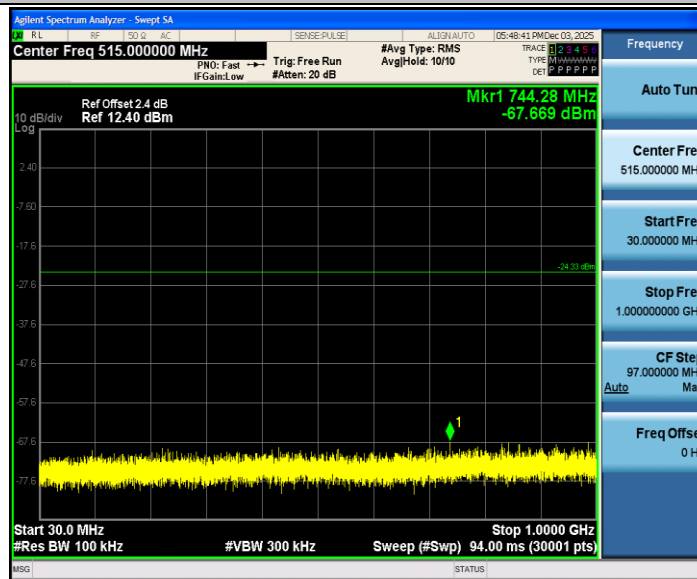
11B_Ant1_2462_1000~26500



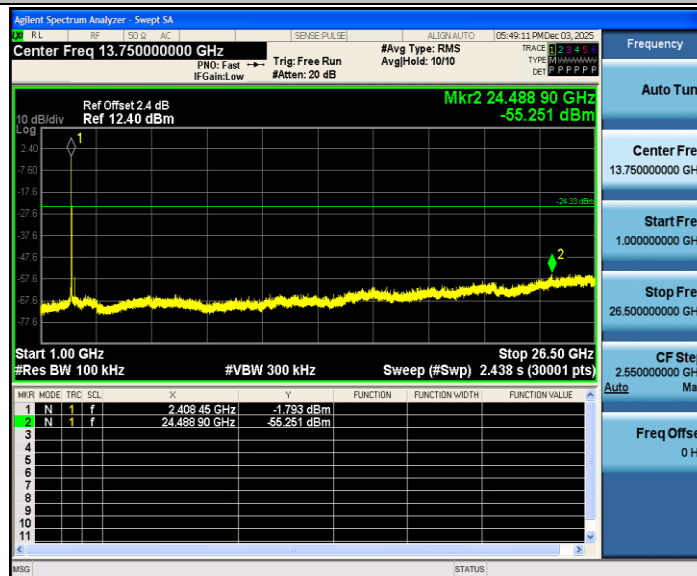
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



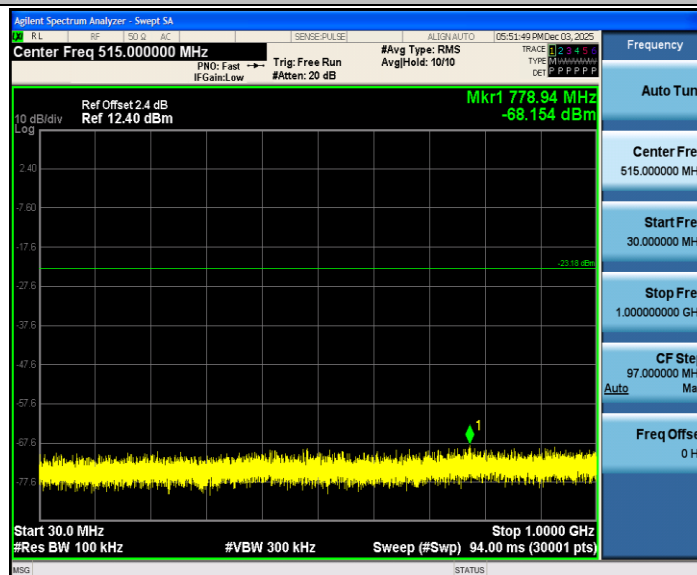
11G_Ant1_2412_1000~26500



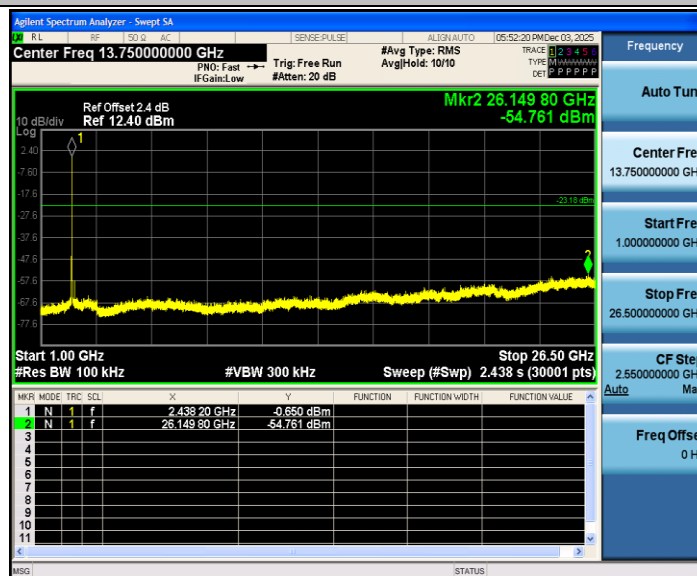
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



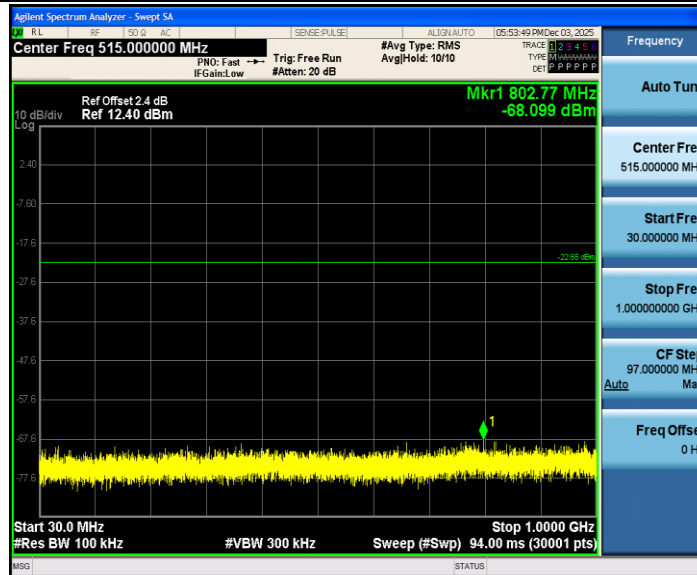
11G_Ant1_2437_1000~26500



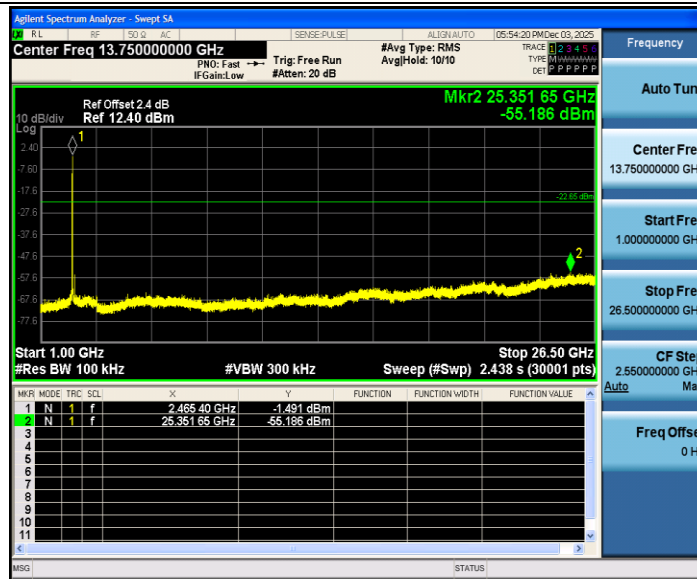
11G_Ant1_2462_0~Reference



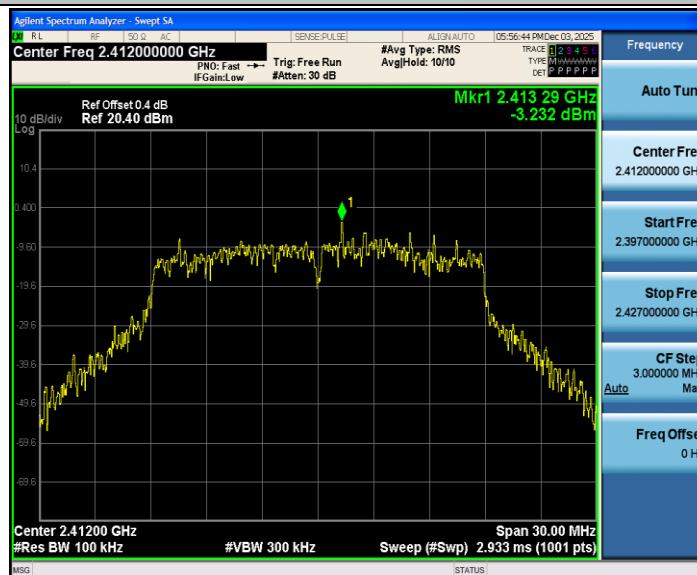
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000

