

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BVLG-MEGA-CQ25R

Company : Zentron LLC

EUT : Thermal imaging device

Model Number : CQ25R

Report No. : CTA26041400502

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	10.200	2406.920	2417.120	0.5	PASS
		2437	10.200	2431.920	2442.120	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant1	2412	15.920	2404.080	2420.000	0.5	PASS
		2437	15.880	2429.080	2444.960	0.5	PASS
		2462	15.880	2454.080	2469.960	0.5	PASS
11N20SISO	Ant1	2412	16.880	2403.680	2420.560	0.5	PASS
		2437	16.600	2428.680	2445.280	0.5	PASS
		2462	17.000	2453.440	2470.440	0.5	PASS

Test Graphs

11B_Ant1_2412



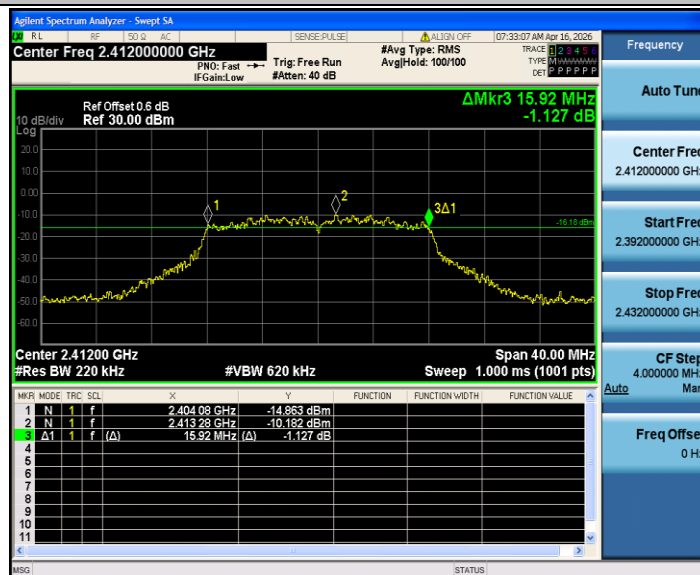
11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



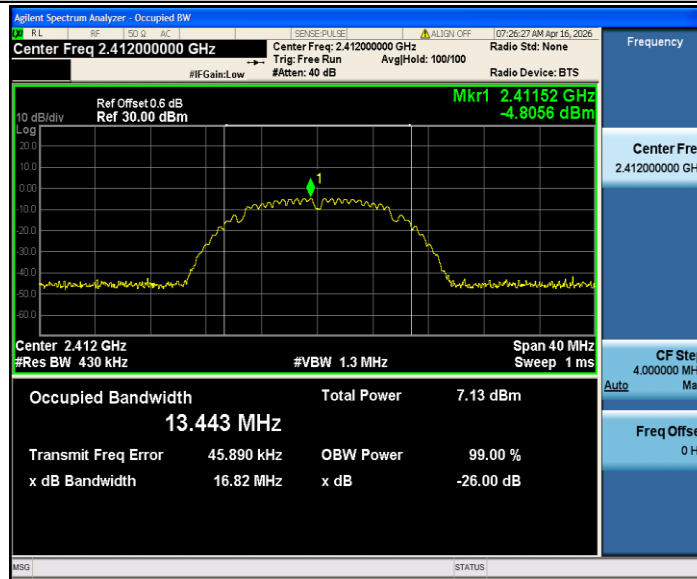
Appendix B: Occupied Channel Bandwidth

Test Result

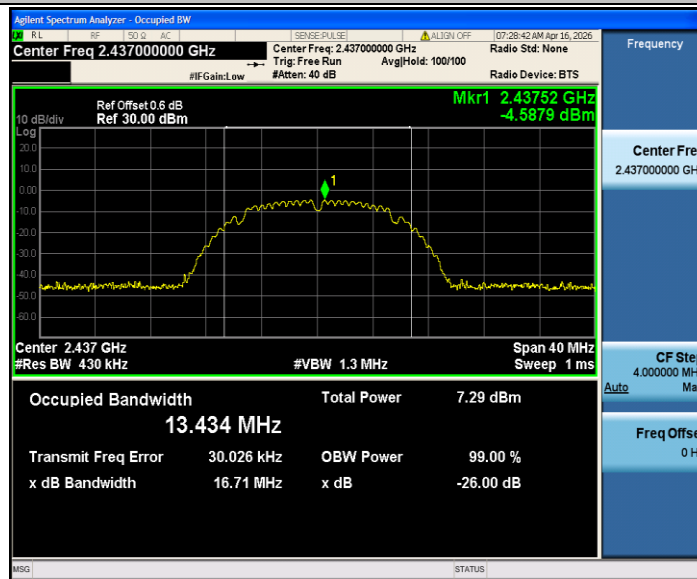
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.443	2405.3244	2418.7674	---	---
		2437	13.434	2430.3130	2443.7470	---	---
		2462	13.467	2455.2787	2468.7457	---	---
11G	Ant1	2412	16.839	2403.6397	2420.4787	---	---
		2437	16.857	2428.6479	2445.5049	---	---
		2462	16.882	2453.5907	2470.4727	---	---
11N20SISO	Ant1	2412	17.901	2403.0740	2420.9750	---	---
		2437	17.961	2428.0573	2446.0183	---	---
		2462	17.939	2453.0698	2471.0088	---	---

Test Graphs

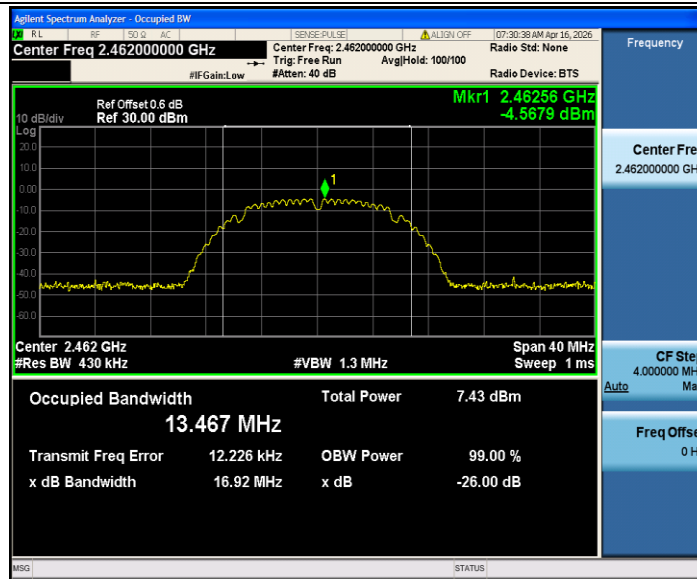
11B_Ant1_2412



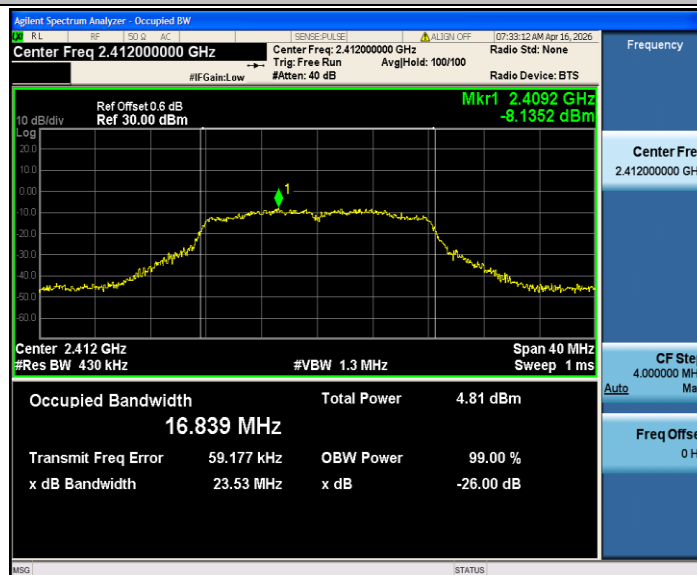
11B_Ant1_2437



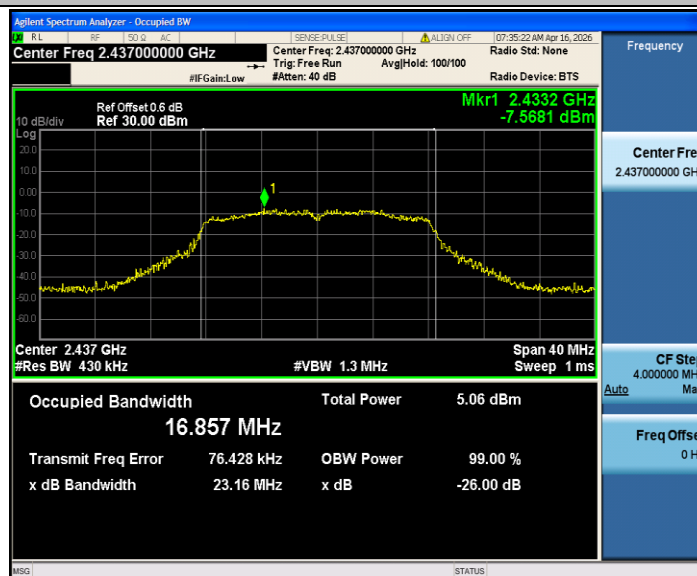
11B_Ant1_2462



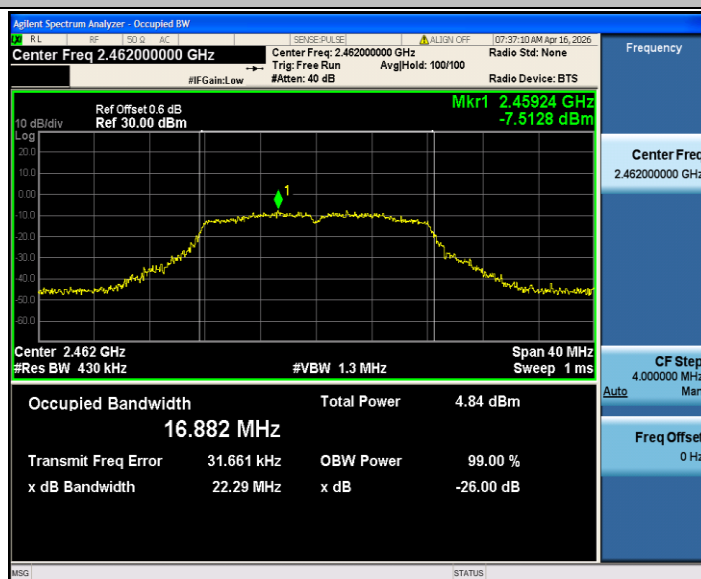
11G_Ant1_2412



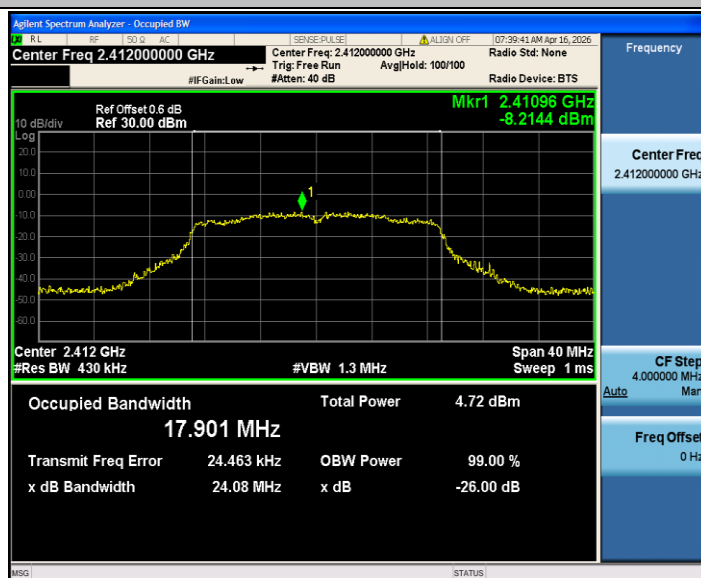
11G_Ant1_2437



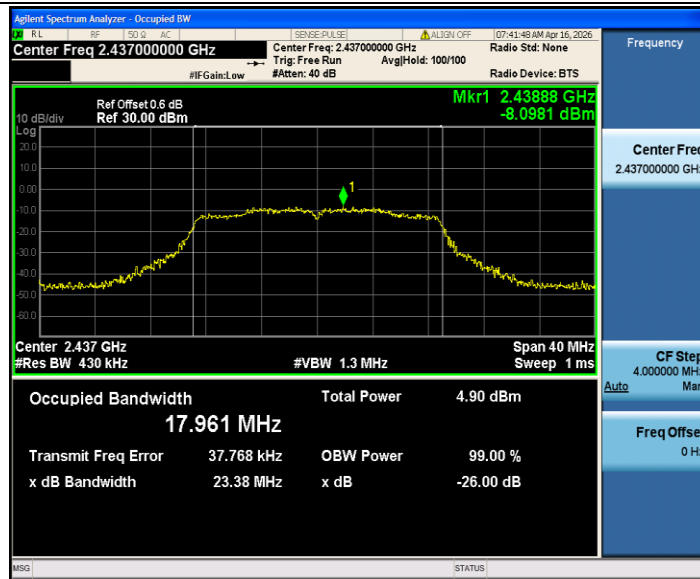
11G_Ant1_2462



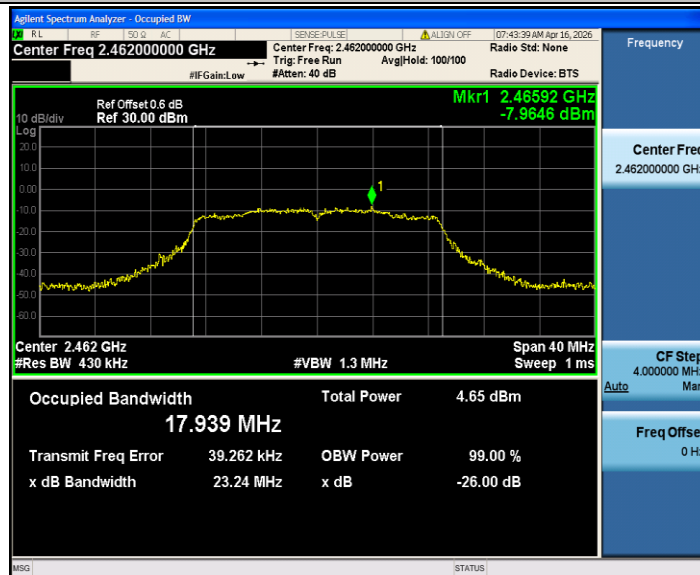
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	6.74	≤30.00	PASS
		2437	7.03	≤30.00	PASS
		2462	7.11	≤30.00	PASS
11G	Ant1	2412	5.74	≤30.00	PASS
		2437	5.91	≤30.00	PASS
		2462	5.69	≤30.00	PASS
11N20SISO	Ant1	2412	5.57	≤30.00	PASS
		2437	5.89	≤30.00	PASS
		2462	5.67	≤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	-19.47	≤8.00	PASS
		2437	-19.18	≤8.00	PASS
		2462	-18.53	≤8.00	PASS
11G	Ant1	2412	-25.74	≤8.00	PASS
		2437	-25.97	≤8.00	PASS
		2462	-25.04	≤8.00	PASS
11N20SISO	Ant1	2412	-25.89	≤8.00	PASS
		2437	-25.44	≤8.00	PASS
		2462	-24.06	≤8.00	PASS

Test Graphs

11B_Ant1_2412



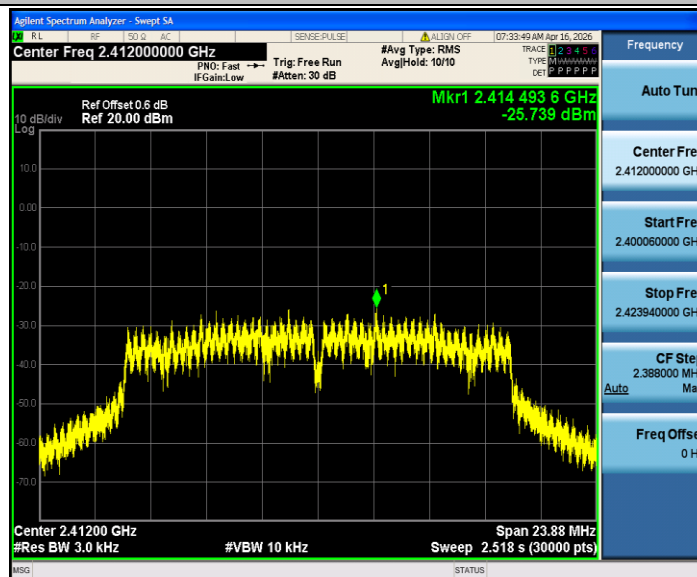
11B_Ant1_2437



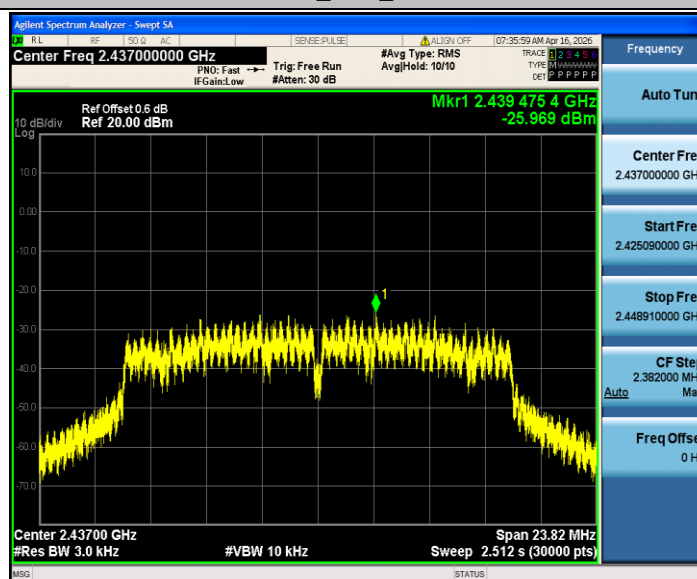
11B_Ant1_2462



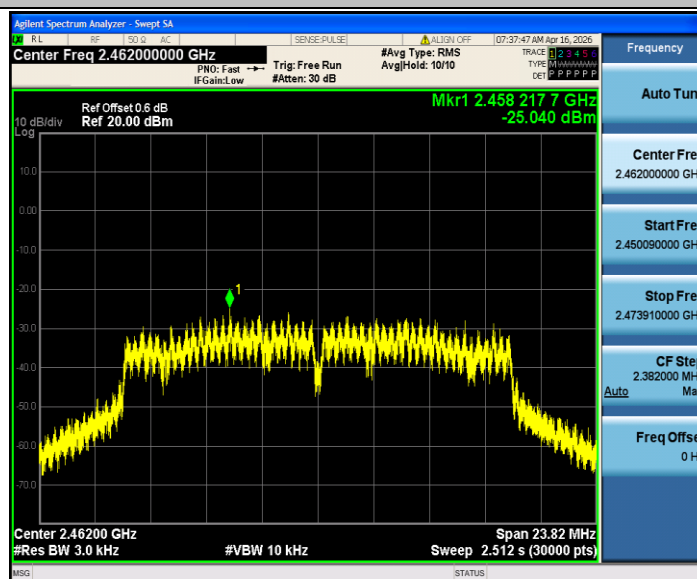
11G_Ant1_2412



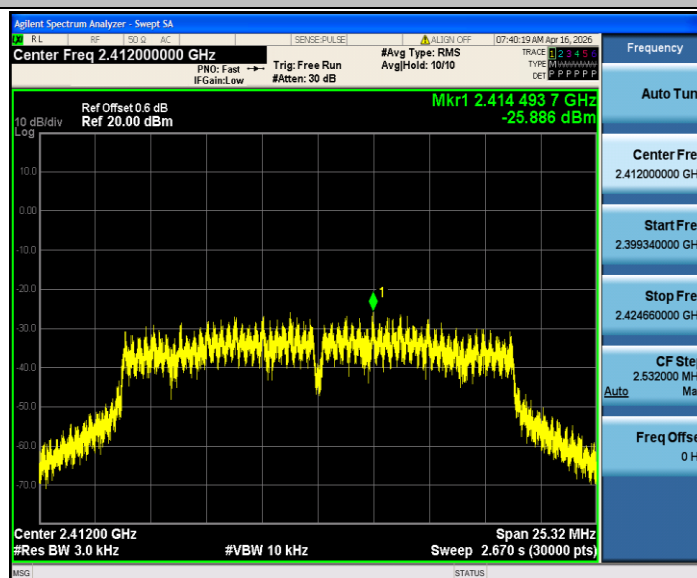
11G_Ant1_2437



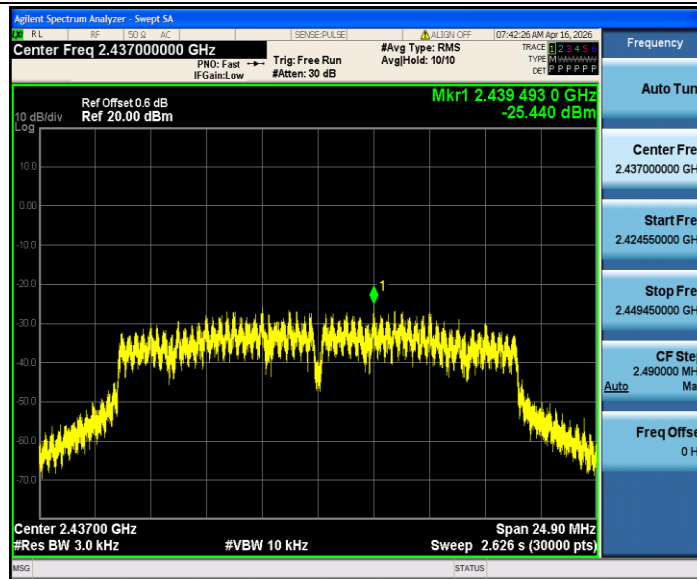
11G_Ant1_2462



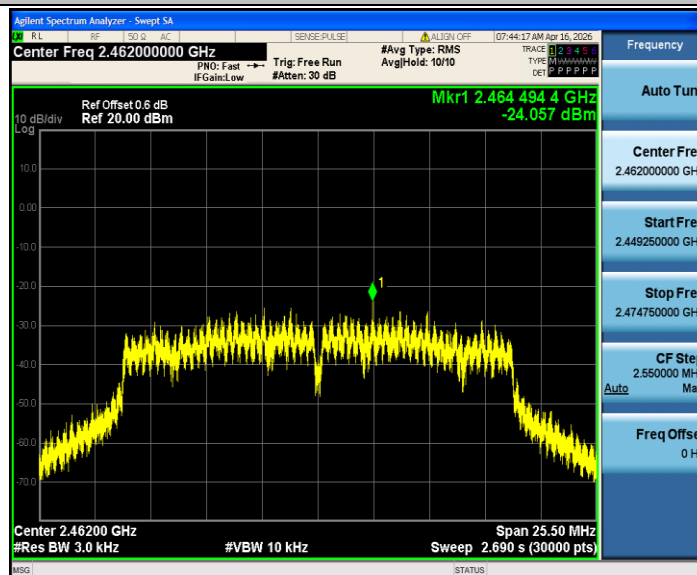
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



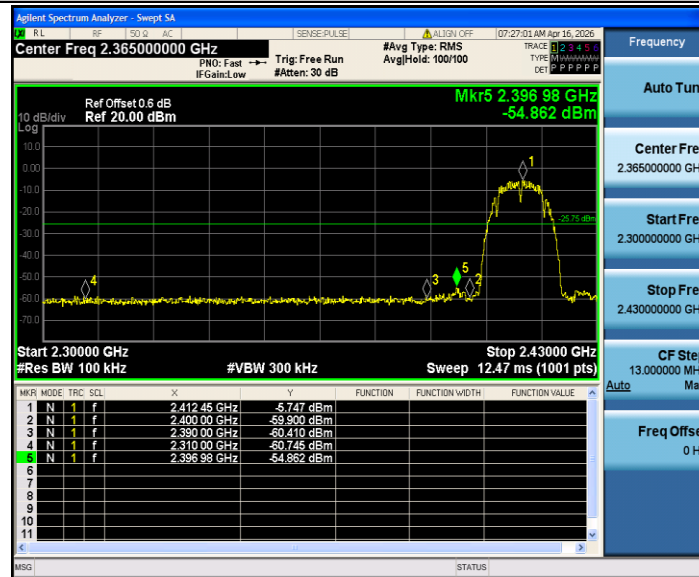
Appendix E: Band edge measurements

Test Result

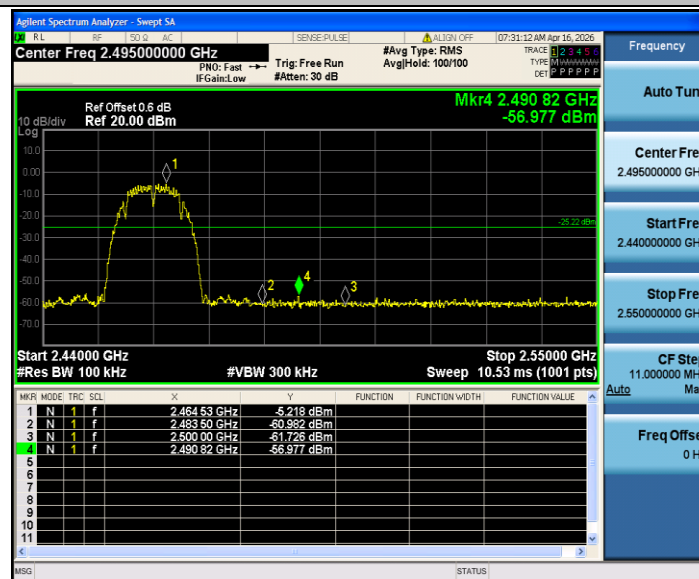
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-5.75	-54.86	≤-25.75	PASS
		High	2462	-5.22	-56.98	≤-25.22	PASS
11G	Ant1	Low	2412	-10.79	-43.1	≤-30.79	PASS
		High	2462	-10.79	-57.08	≤-30.79	PASS
11N20SISO	Ant1	Low	2412	-10.96	-41.16	≤-30.96	PASS
		High	2462	-10.76	-58.03	≤-30.76	PASS

Test Graphs

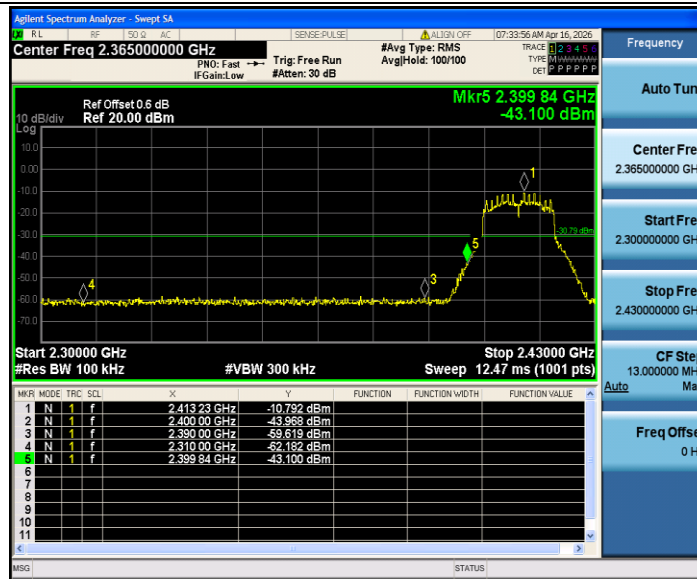
11B_Ant1_Low_2412



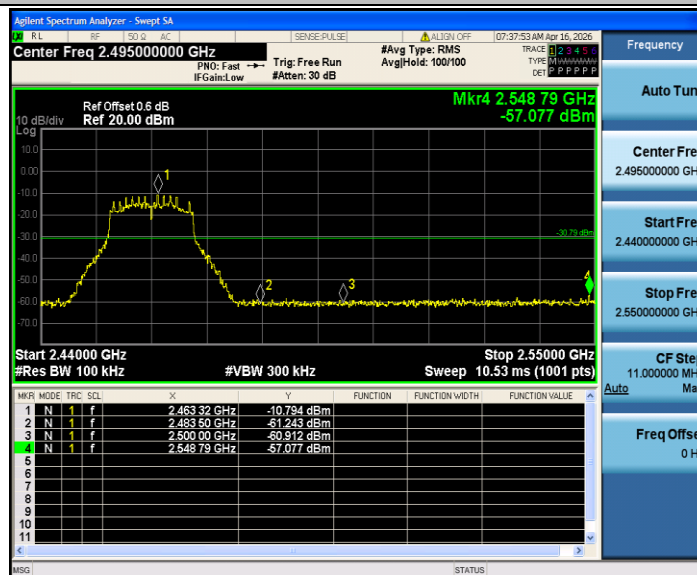
11B_Ant1_High_2462



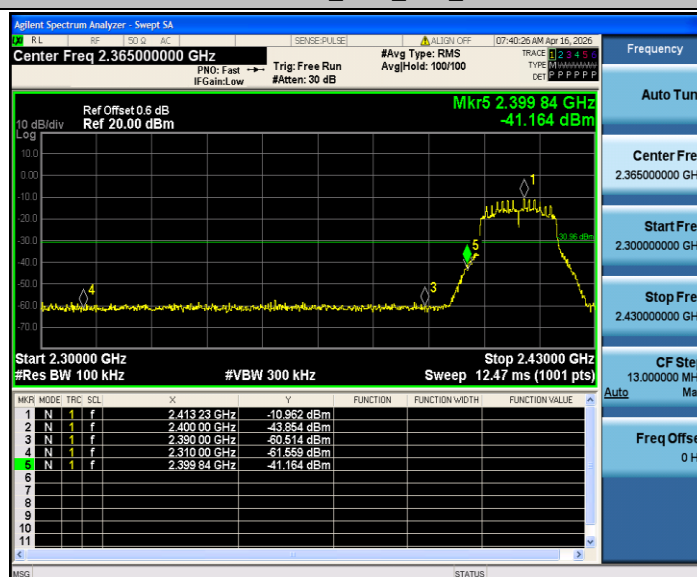
11G_Ant1_Low_2412



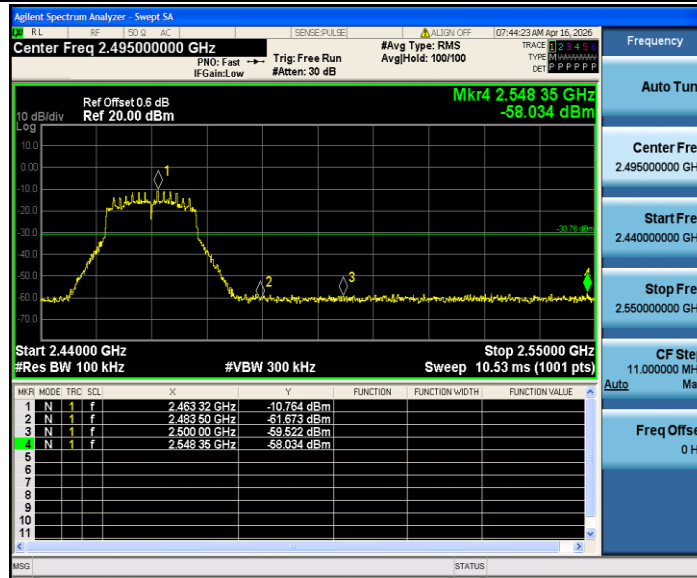
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



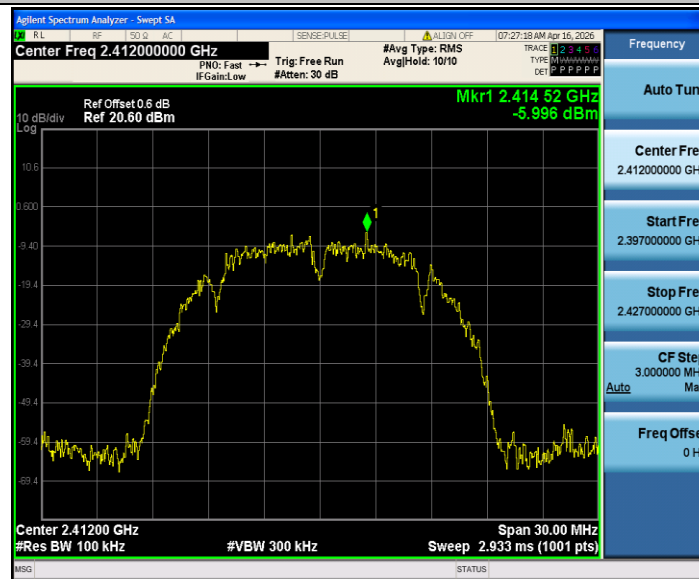
Appendix F: Conducted Spurious Emission

Test Result

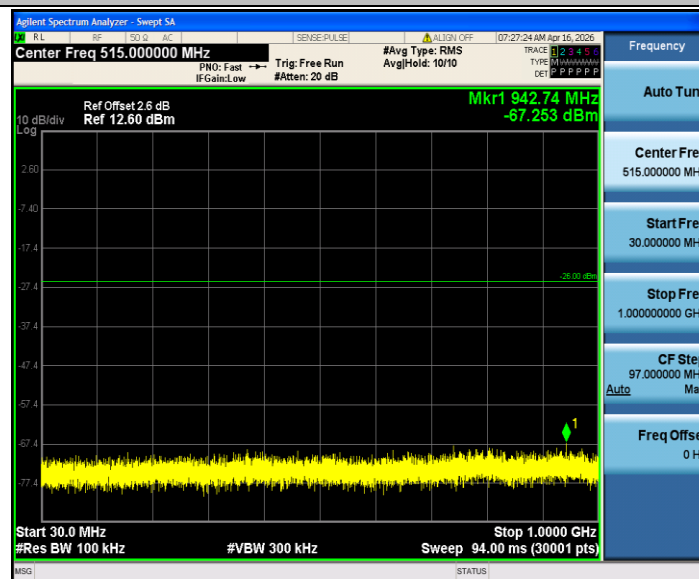
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-6.00	-6.00	---	PASS
			30~1000	-6.00	-67.25	≤-26	PASS
			1000~26500	-6.00	-55.41	≤-26	PASS
		2437	Reference	-6.01	-6.01	---	PASS
			30~1000	-6.01	-67.43	≤-26.01	PASS
			1000~26500	-6.01	-55.3	≤-26.01	PASS
		2462	Reference	-6.49	-6.49	---	PASS
			30~1000	-6.49	-67.73	≤-26.49	PASS
			1000~26500	-6.49	-55.76	≤-26.49	PASS
11G	Ant1	2412	Reference	-11.61	-11.61	---	PASS
			30~1000	-11.61	-68.1	≤-31.61	PASS
			1000~26500	-11.61	-55.39	≤-31.61	PASS
		2437	Reference	-11.19	-11.19	---	PASS
			30~1000	-11.19	-68.3	≤-31.19	PASS
			1000~26500	-11.19	-55.24	≤-31.19	PASS
		2462	Reference	-11.59	-11.59	---	PASS
			30~1000	-11.59	-68.1	≤-31.59	PASS
			1000~26500	-11.59	-55.99	≤-31.59	PASS
11N20SISO	Ant1	2412	Reference	-12.60	-12.60	---	PASS
			30~1000	-12.60	-67.63	≤-32.6	PASS
			1000~26500	-12.60	-55.79	≤-32.6	PASS
		2437	Reference	-11.01	-11.01	---	PASS
			30~1000	-11.01	-68.16	≤-31.01	PASS
			1000~26500	-11.01	-55.63	≤-31.01	PASS
		2462	Reference	-11.24	-11.24	---	PASS
			30~1000	-11.24	-68.02	≤-31.24	PASS
			1000~26500	-11.24	-55.09	≤-31.24	PASS

Test Graphs

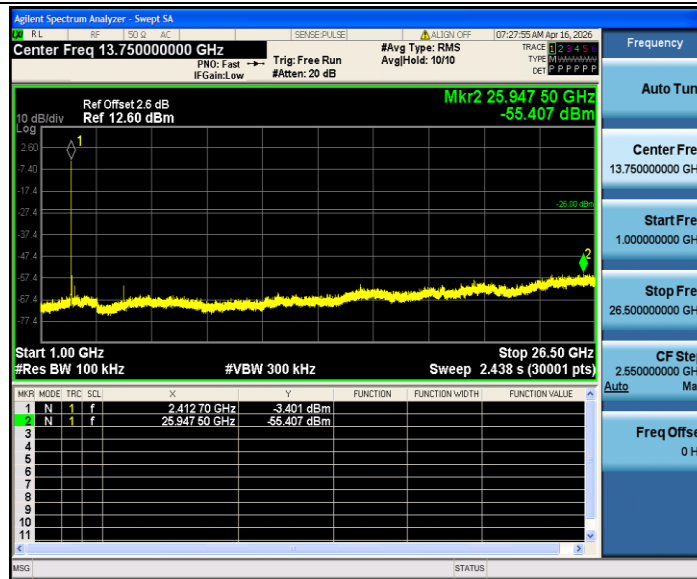
11B_Ant1_2412_0~Reference



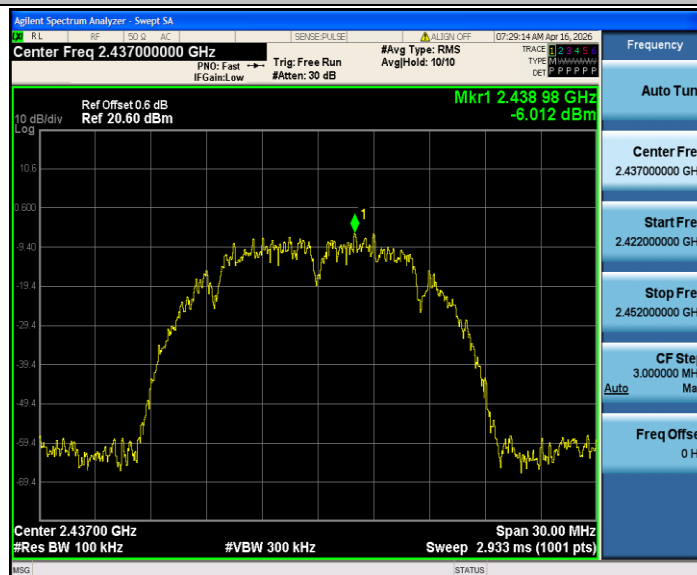
11B_Ant1_2412_30~1000



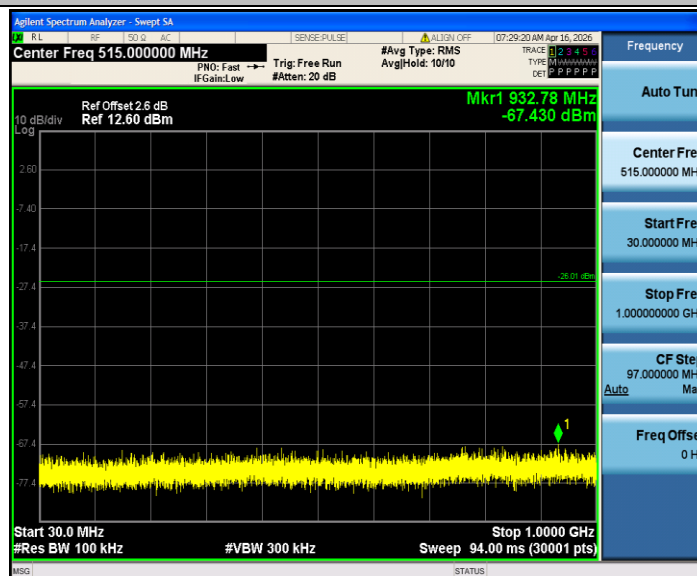
11B_Ant1_2412_1000~26500



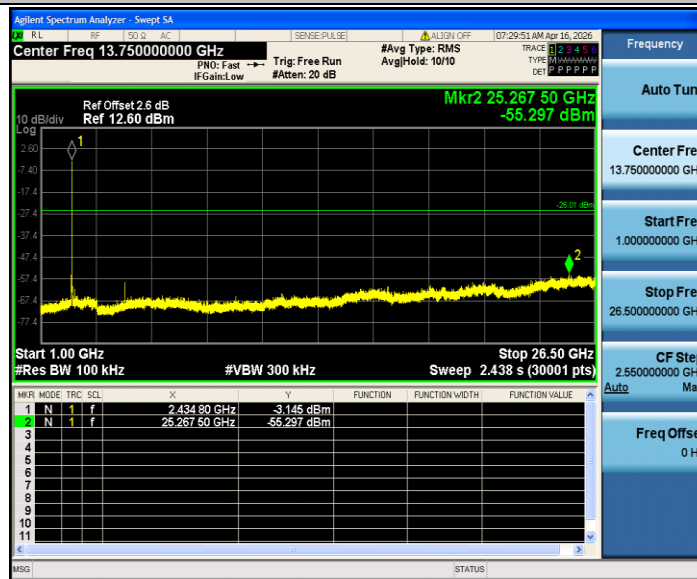
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000