

FCC Appendix RF Test Data

FCC ID : **2AU3D-RCAPRIME**

Company: : **United Creation Technology Corp.,Ltd**

EUT : **4G smart phone**

Model Number : **Prime**

Report No. : **CTA25040200713**

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	9.320	2407.160	2416.480	0.5	PASS
		2437	9.520	2432.000	2441.520	0.5	PASS
		2462	9.480	2457.040	2466.520	0.5	PASS
11G	Ant1	2412	15.760	2404.440	2420.200	0.5	PASS
		2437	15.760	2428.800	2444.560	0.5	PASS
		2462	15.880	2454.280	2470.160	0.5	PASS
11N20SISO	Ant1	2412	16.080	2404.440	2420.520	0.5	PASS
		2437	15.800	2429.440	2445.240	0.5	PASS
		2462	16.160	2454.320	2470.480	0.5	PASS
11N40SISO	Ant1	2422	35.360	2404.480	2439.840	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



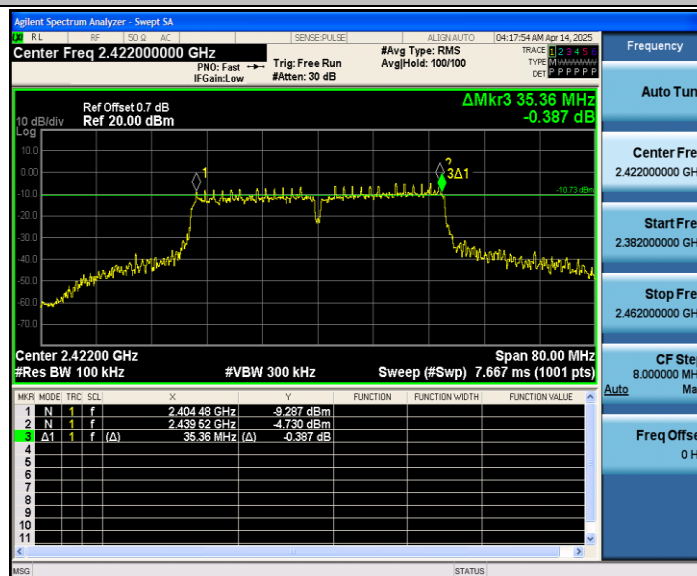
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



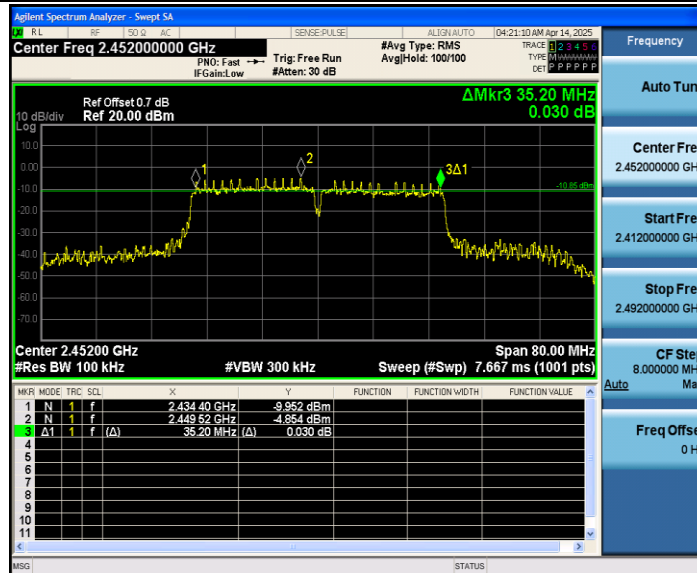
11N40SISO_Ant1_2422



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	12.378	2405.7545	2418.1325	---	---
		2437	11.577	2431.0055	2442.5825	---	---
		2462	12.704	2455.4664	2468.1704	---	---
11G	Ant1	2412	16.793	2403.7991	2420.5921	---	---
		2437	16.702	2428.5806	2445.2826	---	---
		2462	16.978	2453.6495	2470.6275	---	---
11N20SISO	Ant1	2412	17.883	2403.2701	2421.1531	---	---
		2437	17.633	2428.3246	2445.9576	---	---
		2462	17.990	2453.1589	2471.1489	---	---
11N40SISO	Ant1	2422	36.412	2404.1304	2440.5424	---	---
		2437	36.010	2419.1139	2455.1239	---	---
		2452	36.402	2433.8605	2470.2625	---	---

Test Graphs

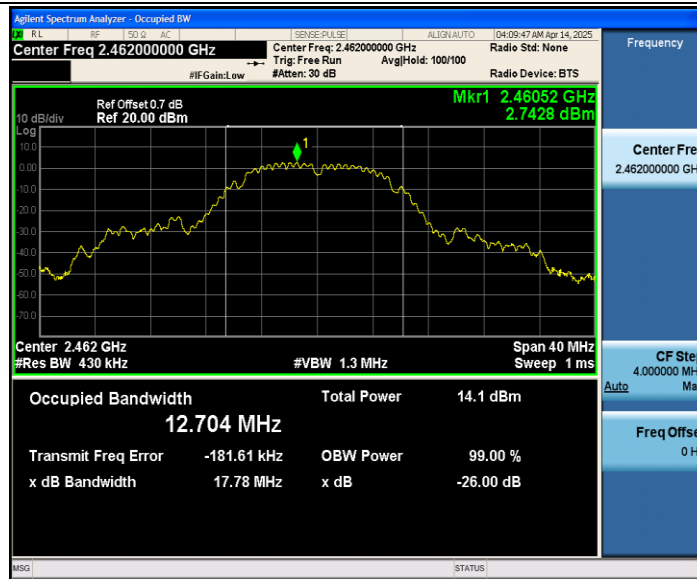
11B_Ant1_2412



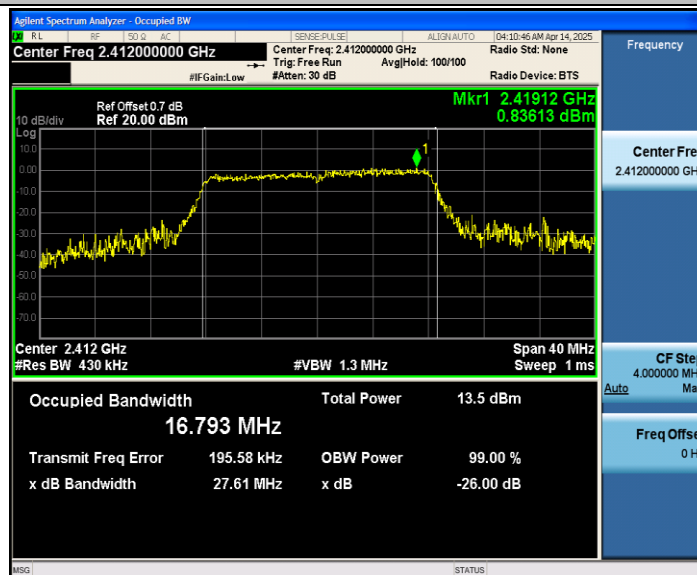
11B_Ant1_2437



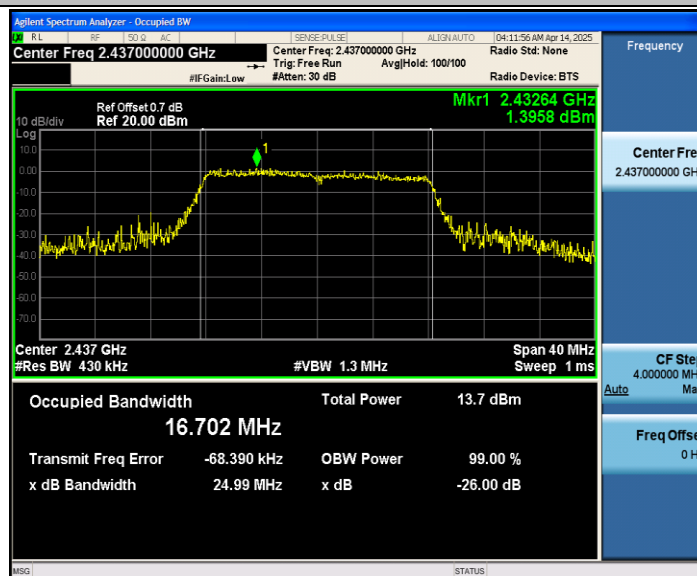
11B_Ant1_2462



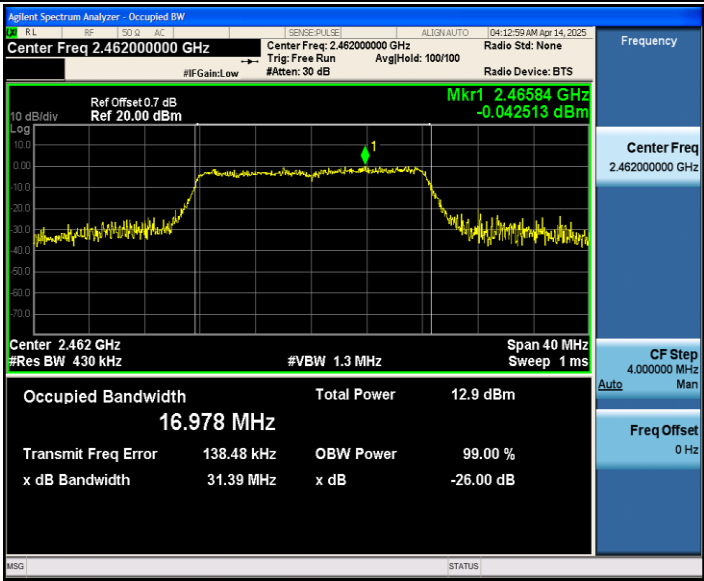
11G_Ant1_2412



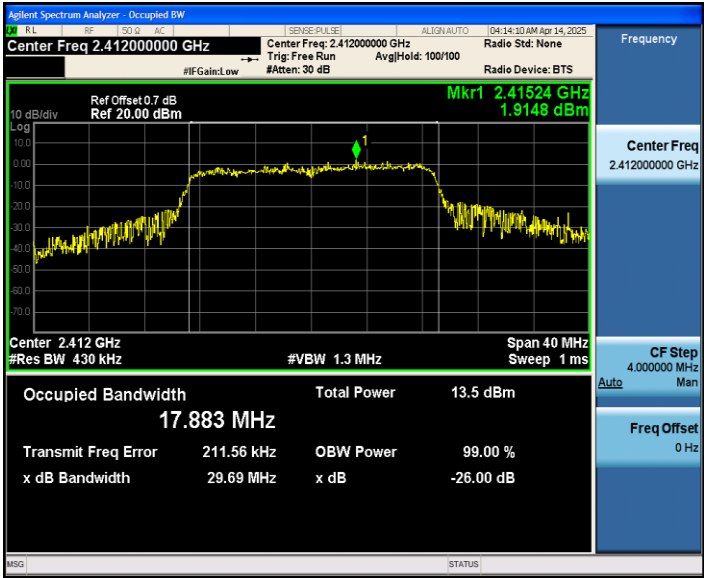
11G_Ant1_2437



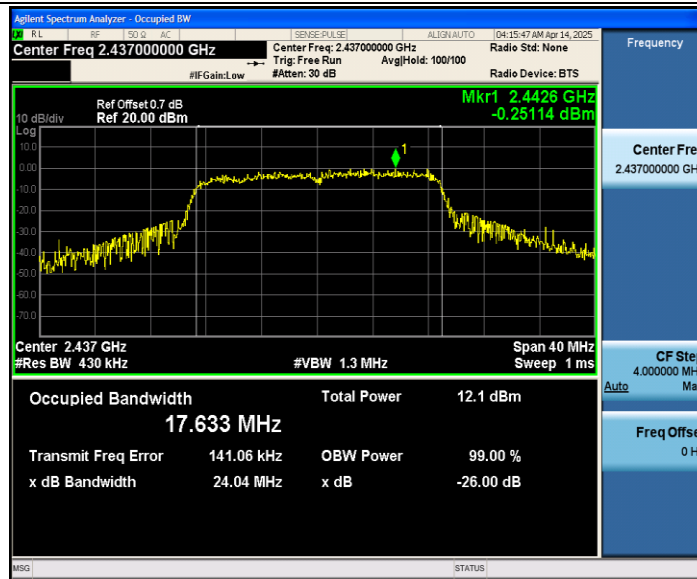
11G_Ant1_2462



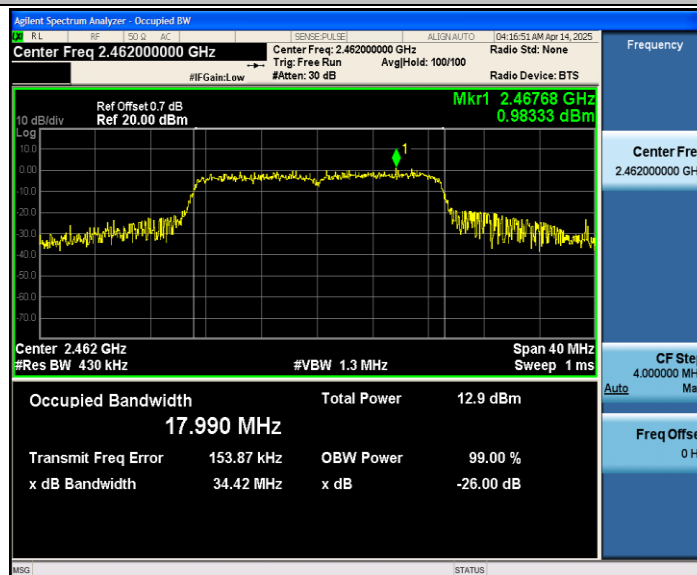
11N20SISO_Ant1_2412



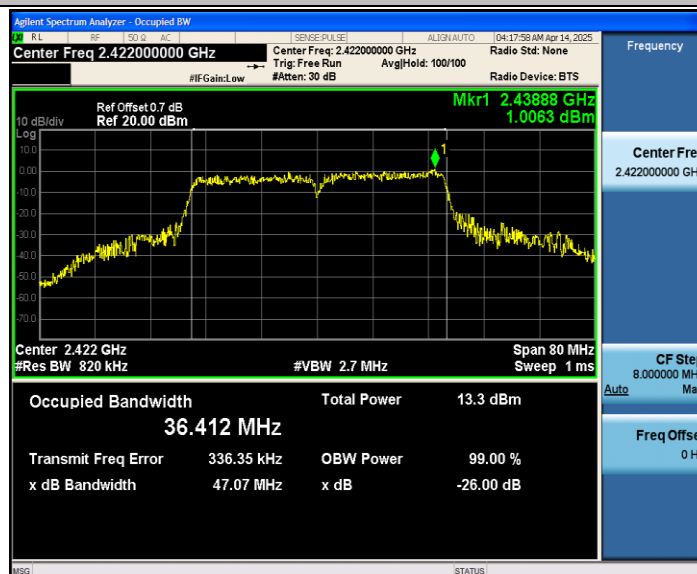
11N20SISO_Ant1_2437



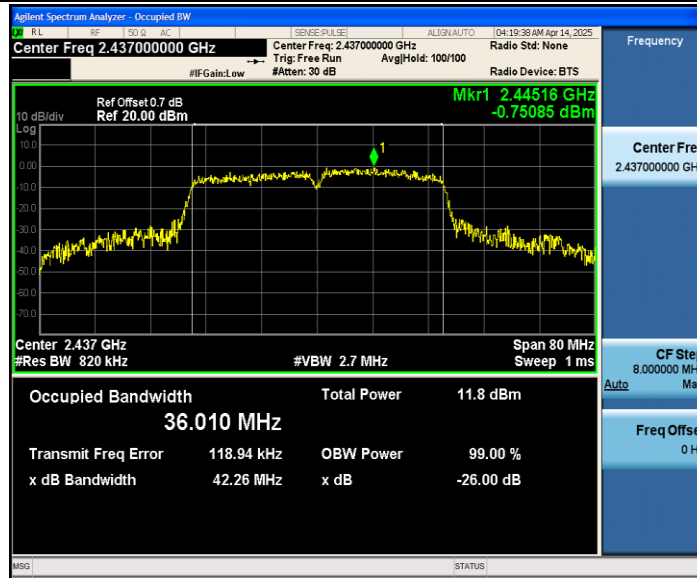
11N20SISO_Ant1_2462



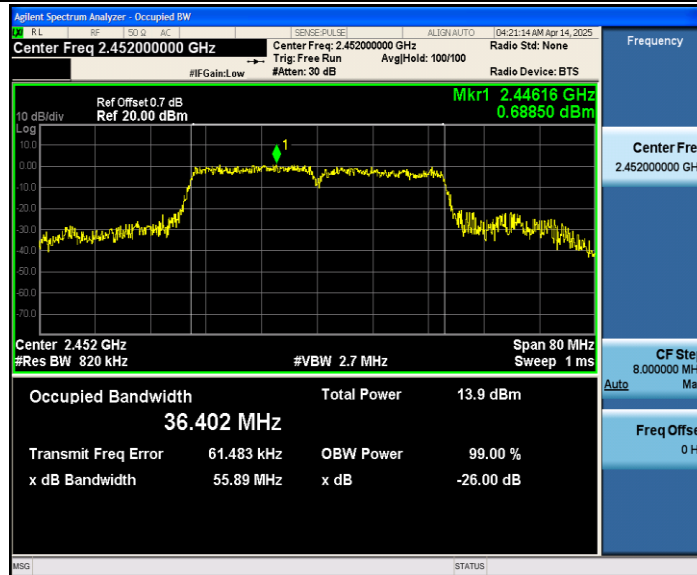
11N40SISO_Ant1_2422



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	14.45	≤30.00	PASS
		2437	13.67	≤30.00	PASS
		2462	13.93	≤30.00	PASS
11G	Ant1	2412	14.22	≤30.00	PASS
		2437	14.33	≤30.00	PASS
		2462	13.46	≤30.00	PASS
11N20SISO	Ant1	2412	14.03	≤30.00	PASS
		2437	12.62	≤30.00	PASS
		2462	13.29	≤30.00	PASS
11N40SISO	Ant1	2422	13.40	≤30.00	PASS
		2437	12.06	≤30.00	PASS
		2452	14.01	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

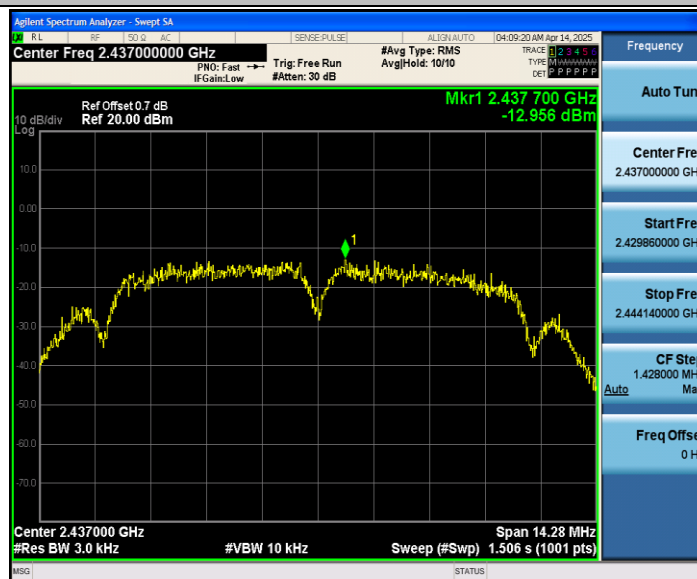
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.26	≤8.00	PASS
		2437	-12.96	≤8.00	PASS
		2462	-11.66	≤8.00	PASS
11G	Ant1	2412	-17.66	≤8.00	PASS
		2437	-18.12	≤8.00	PASS
		2462	-18.14	≤8.00	PASS
11N20SISO	Ant1	2412	-17.26	≤8.00	PASS
		2437	-19.63	≤8.00	PASS
		2462	-18.77	≤8.00	PASS
11N40SISO	Ant1	2422	-21.17	≤8.00	PASS
		2437	-23.06	≤8.00	PASS
		2452	-21.07	≤8.00	PASS

Test Graphs

11B_Ant1_2412



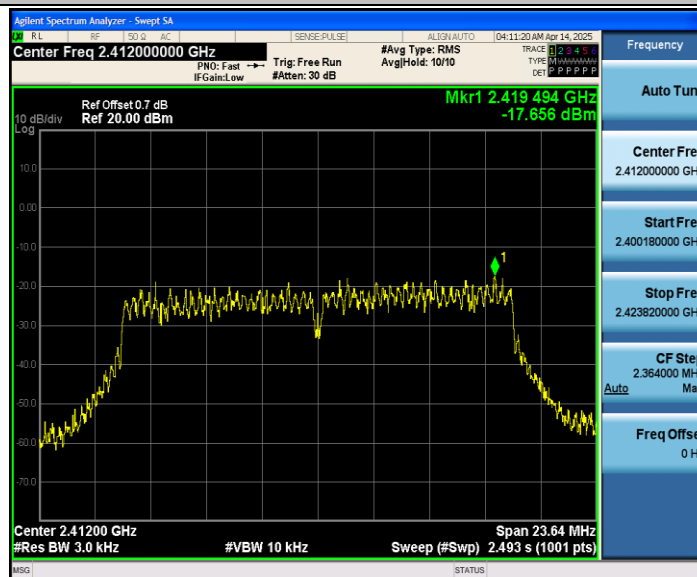
11B_Ant1_2437



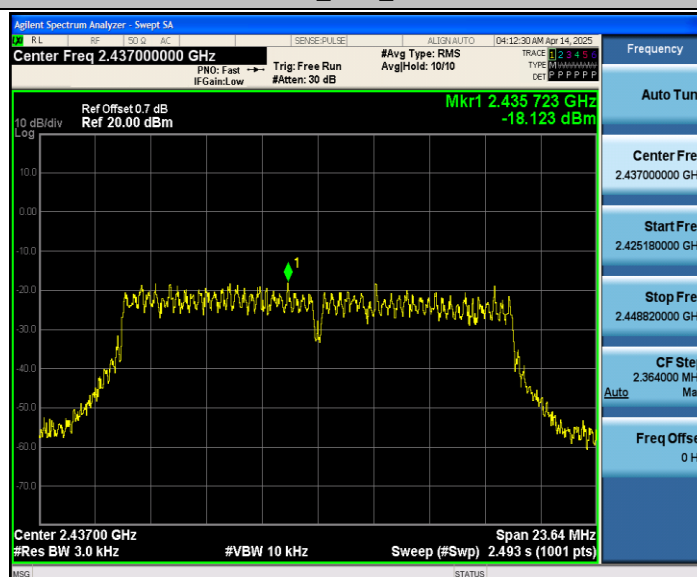
11B_Ant1_2462



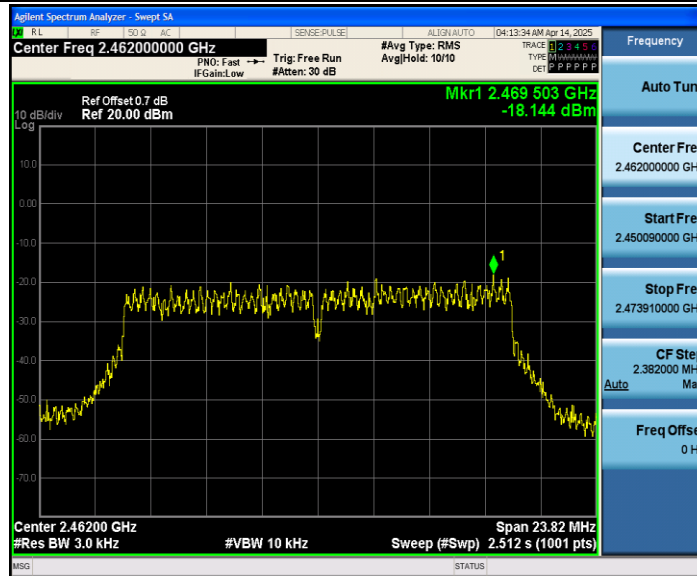
11G_Ant1_2412



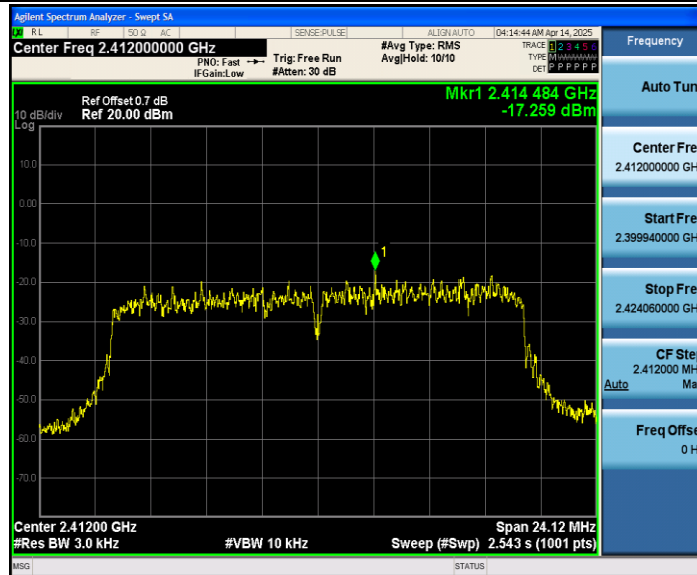
11G_Ant1_2437



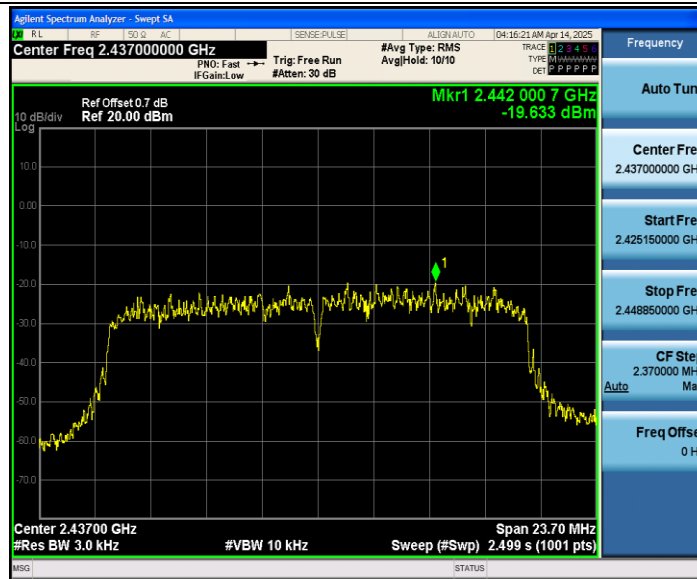
11G_Ant1_2462



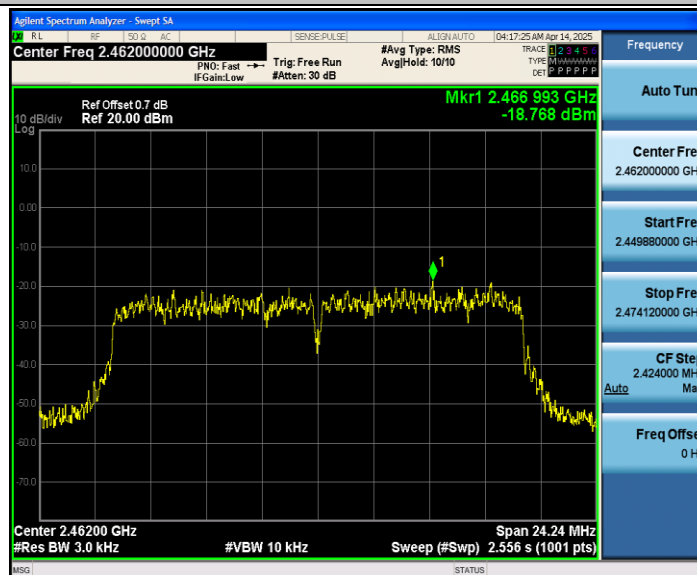
11N20SISO_Ant1_2412



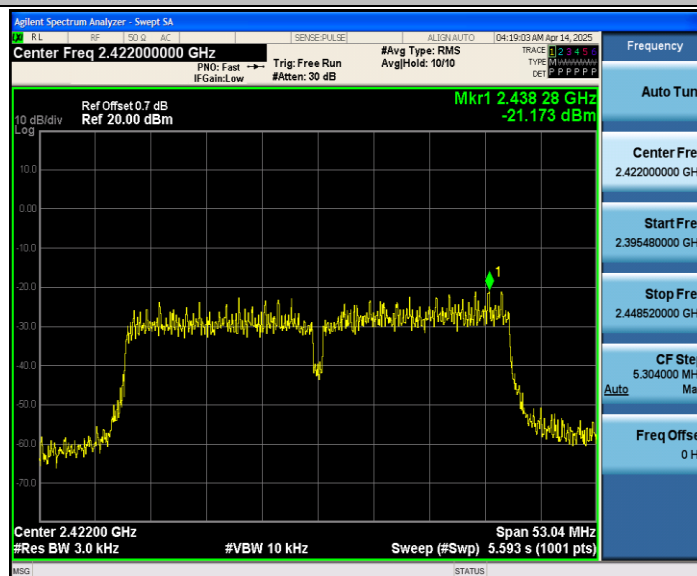
11N20SISO_Ant1_2437



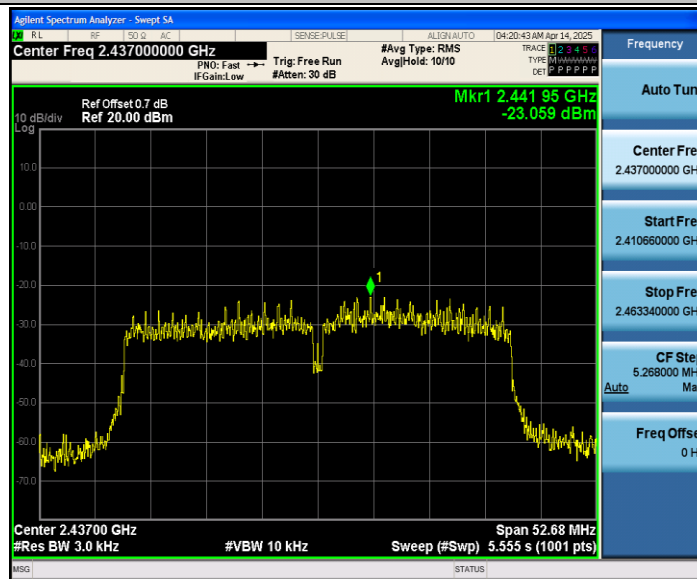
11N20SISO_Ant1_2462



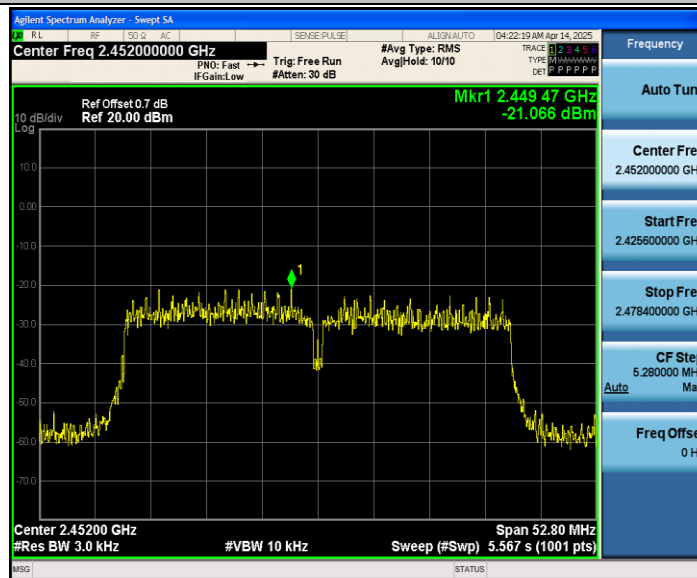
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



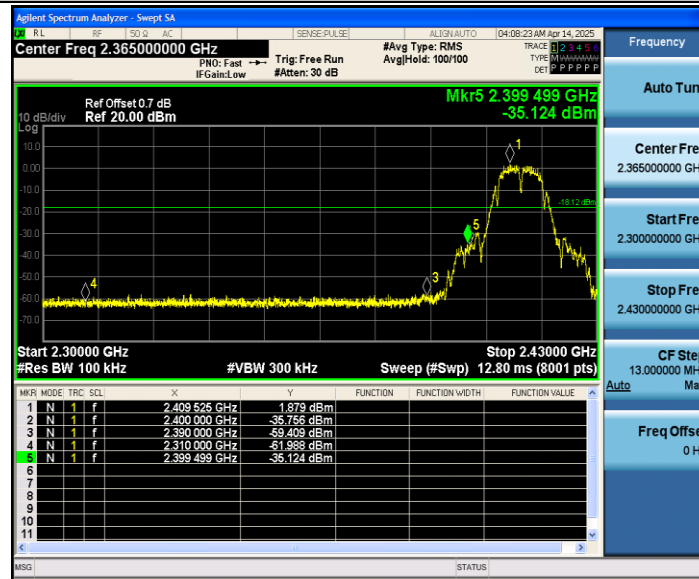
Appendix E: Band edge measurements

Test Result

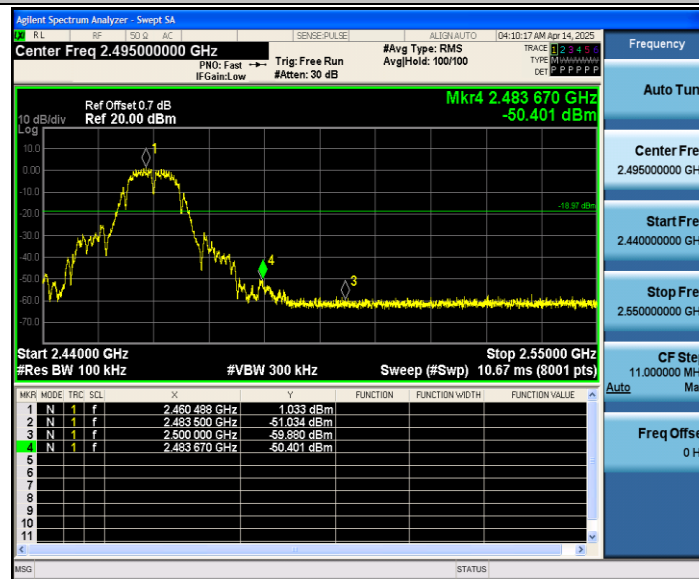
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.88	-35.12	≤-18.12	PASS
		High	2462	1.03	-50.4	≤-18.97	PASS
11G	Ant1	Low	2412	-1.58	-35.97	≤-21.58	PASS
		High	2462	-2.24	-37.33	≤-22.24	PASS
11N20SISO	Ant1	Low	2412	-1.80	-32.52	≤-21.8	PASS
		High	2462	-2.44	-37.52	≤-22.44	PASS
11N40SISO	Ant1	Low	2422	-4.74	-37.15	≤-24.74	PASS
		High	2452	-4.82	-35.31	≤-24.82	PASS

Test Graphs

11B_Ant1_Low_2412



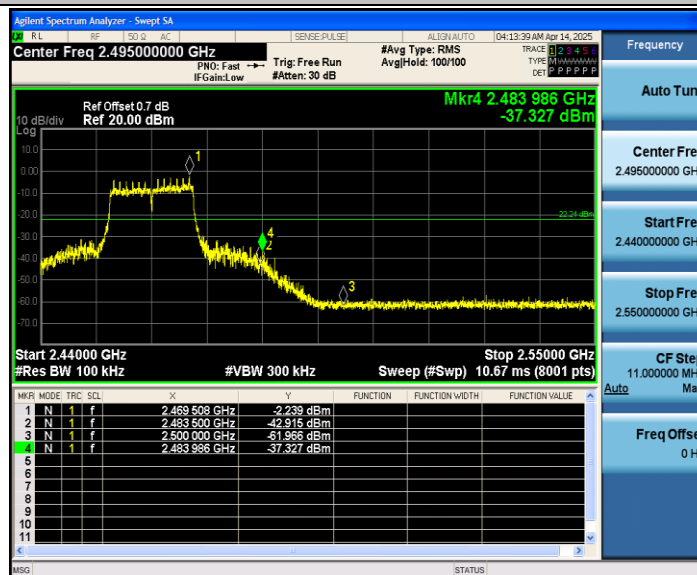
11B_Ant1_High_2462



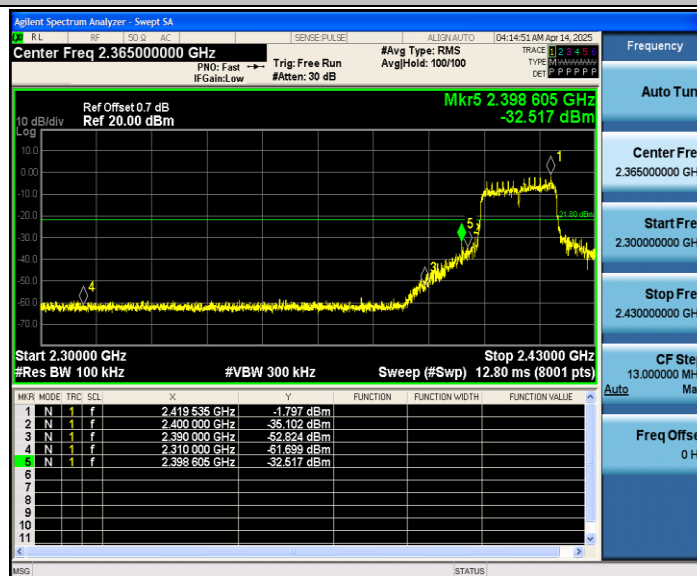
11G_Ant1_Low_2412



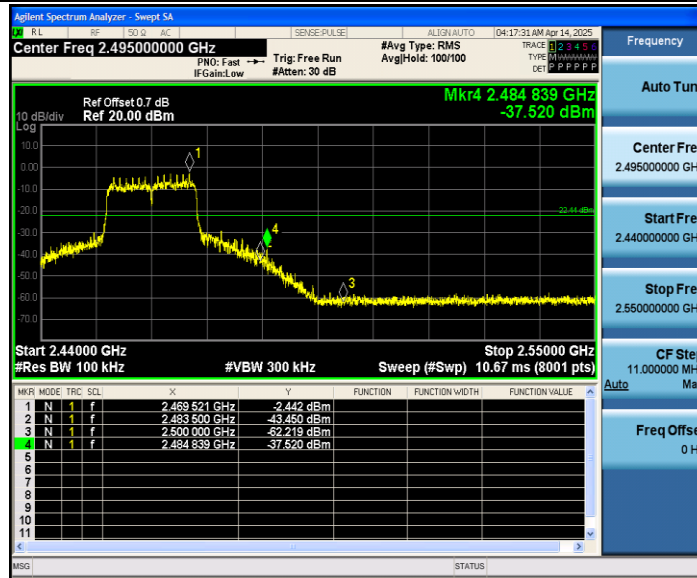
11G_Ant1_High_2462



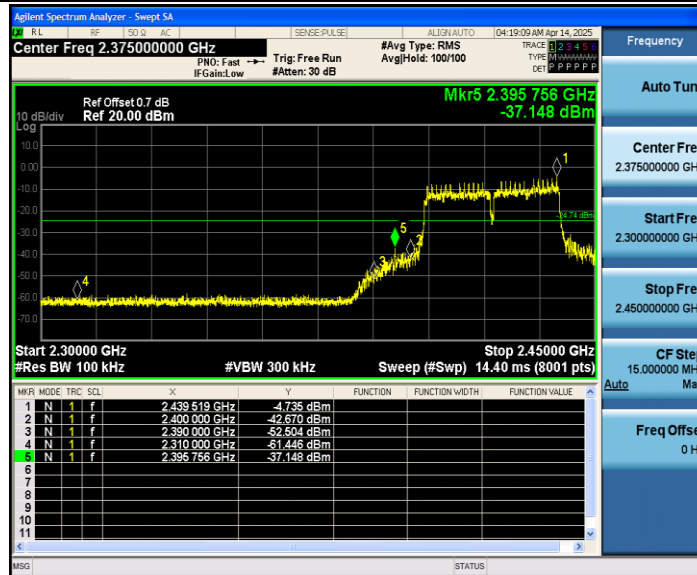
11N20SISO_Ant1_Low_2412



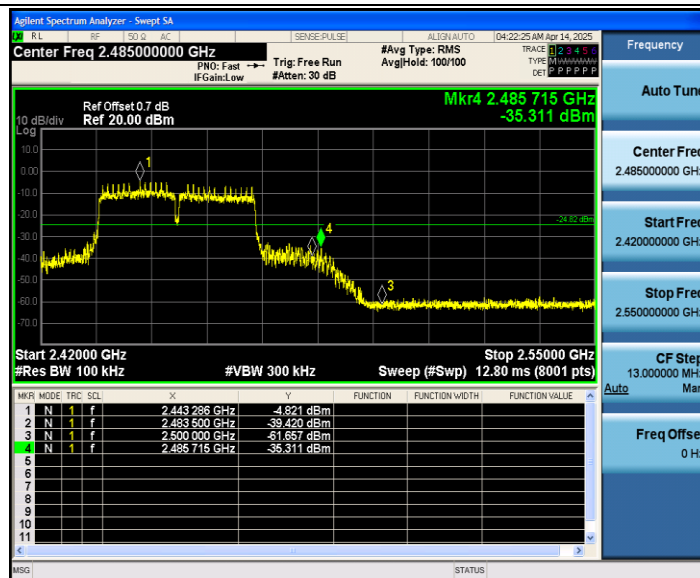
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Appendix F: Conducted Spurious Emission

Test Result

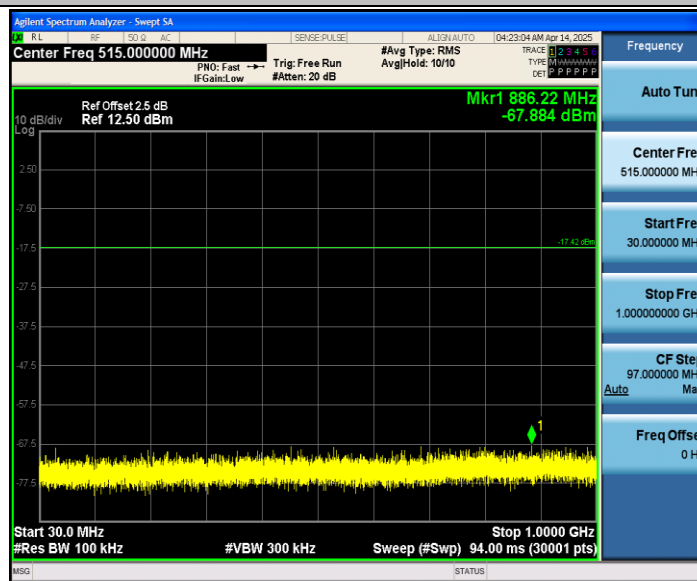
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.58	2.58	---	PASS
			30~1000	2.58	-67.88	≤-17.42	PASS
			1000~26500	2.58	-38.38	≤-17.42	PASS
		2437	Reference	3.35	3.35	---	PASS
			30~1000	3.35	-68.21	≤-16.65	PASS
			1000~26500	3.35	-36.2	≤-16.65	PASS
		2462	Reference	3.49	3.49	---	PASS
			30~1000	3.49	-68.29	≤-16.51	PASS
			1000~26500	3.49	-29.95	≤-16.51	PASS
11G	Ant1	2412	Reference	-0.85	-0.85	---	PASS
			30~1000	-0.85	-66.15	≤-20.85	PASS
			1000~26500	-0.85	-49.26	≤-20.85	PASS
		2437	Reference	-0.31	-0.31	---	PASS
			30~1000	-0.31	-68.16	≤-20.31	PASS
			1000~26500	-0.31	-46.7	≤-20.31	PASS
		2462	Reference	-1.40	-1.40	---	PASS
			30~1000	-1.40	-67.69	≤-21.4	PASS
			1000~26500	-1.40	-41.51	≤-21.4	PASS
11N20SISO	Ant1	2412	Reference	-0.68	-0.68	---	PASS
			30~1000	-0.68	-68.02	≤-20.68	PASS
			1000~26500	-0.68	-48.89	≤-20.68	PASS
		2437	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-67.78	≤-21.71	PASS
			1000~26500	-1.71	-49.88	≤-21.71	PASS
		2462	Reference	-1.42	-1.42	---	PASS
			30~1000	-1.42	-67.99	≤-21.42	PASS
			1000~26500	-1.42	-41.66	≤-21.42	PASS
11N40SISO	Ant1	2422	Reference	-4.58	-4.58	---	PASS
			30~1000	-4.58	-66.17	≤-24.58	PASS
			1000~26500	-4.58	-49.74	≤-24.58	PASS
		2437	Reference	-4.46	-4.46	---	PASS
			30~1000	-4.46	-68.49	≤-24.46	PASS
			1000~26500	-4.46	-48.21	≤-24.46	PASS
		2452	Reference	-3.51	-3.51	---	PASS
			30~1000	-3.51	-66.45	≤-23.51	PASS
			1000~26500	-3.51	-49.15	≤-23.51	PASS

Test Graphs

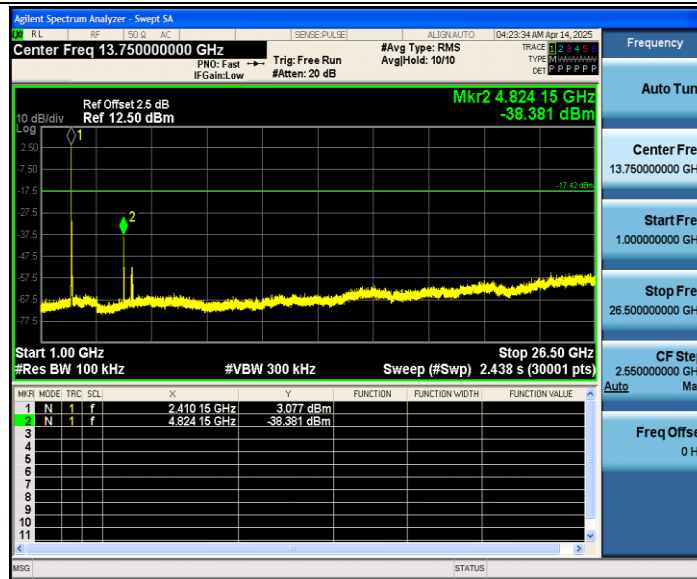
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



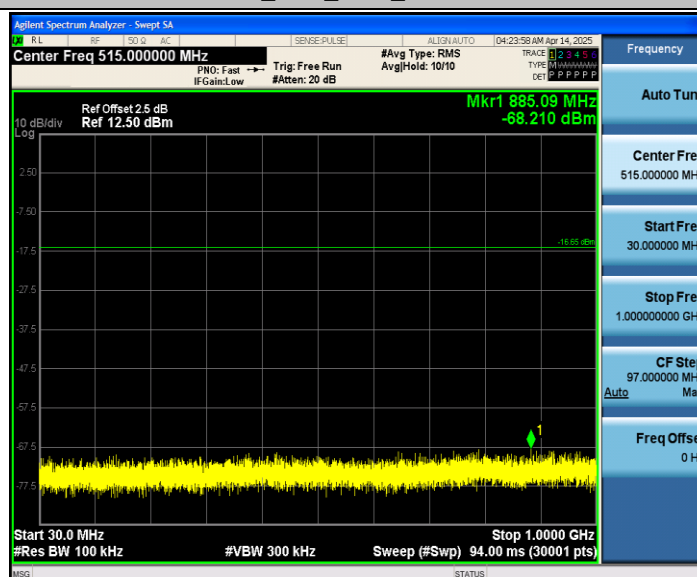
11B_Ant1_2412_1000~26500



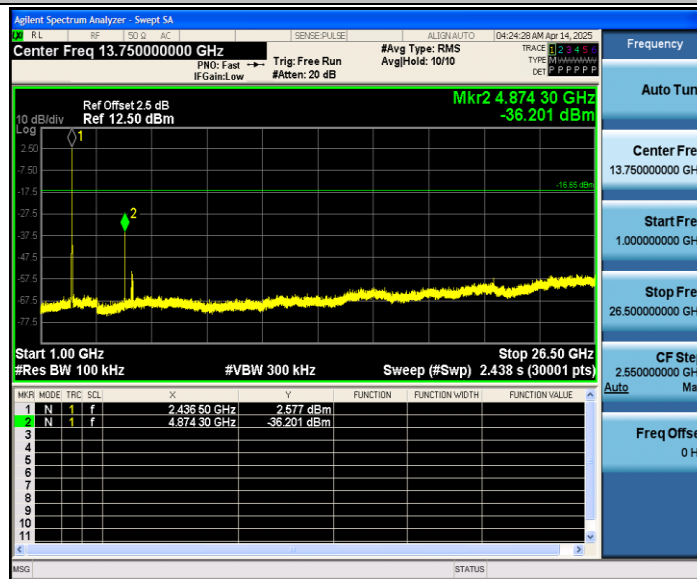
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



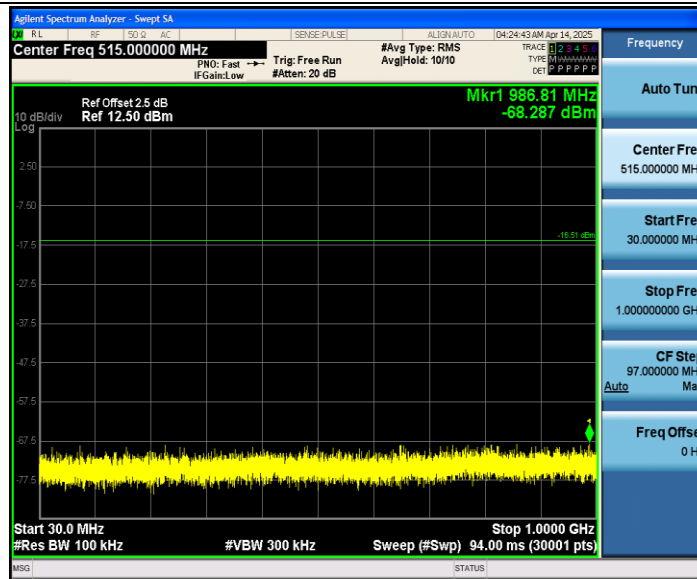
11B_Ant1_2437_1000~26500



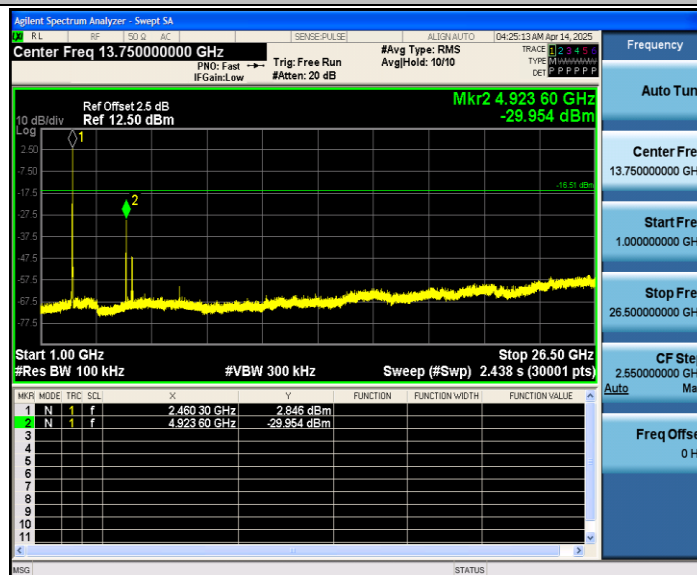
11B_Ant1_2462_0~Reference



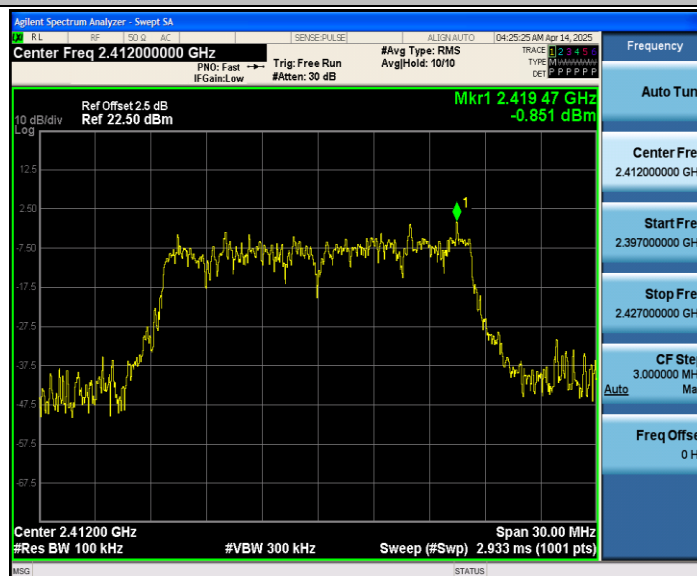
11B_Ant1_2462_30~1000



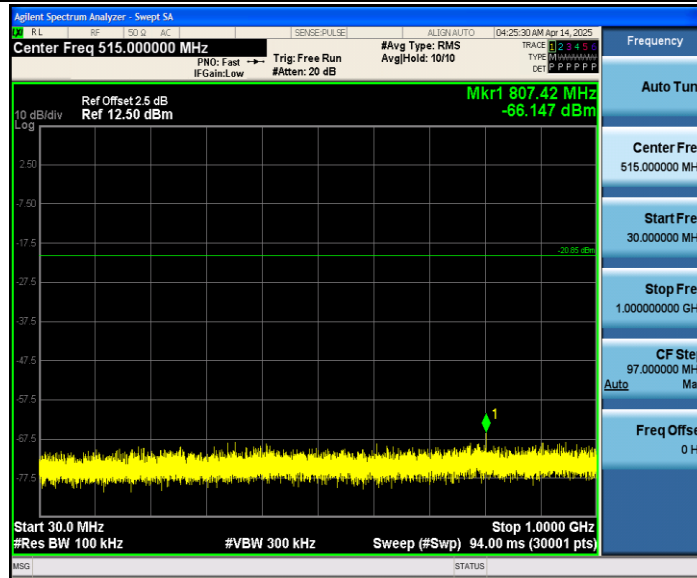
11B_Ant1_2462_1000~26500



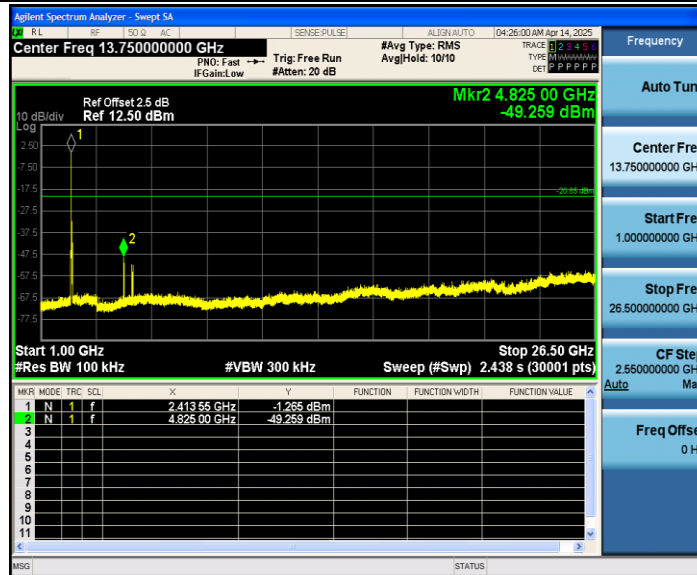
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



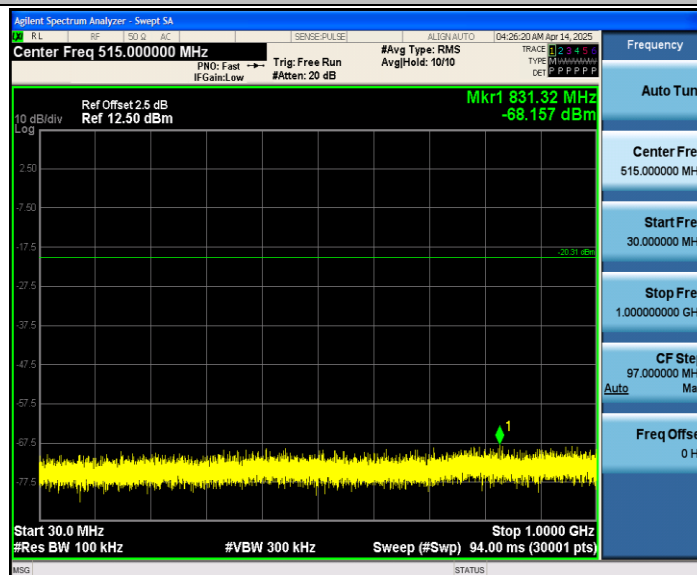
11G_Ant1_2412_1000~26500



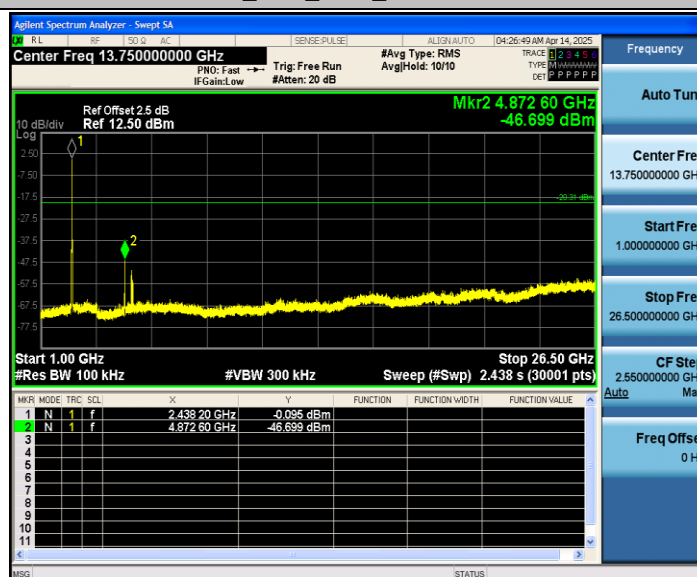
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



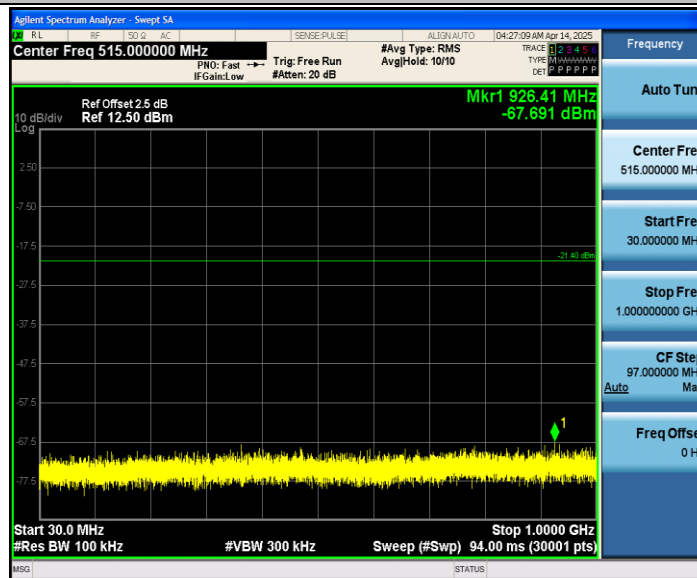
11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500