

FCC Appendix RF Test Data

FCC ID : 2A35W-H96MAXRK3518

Company: : Shenzhen Haochuangyi Technology Co.,Ltd.

EUT : H96 Max RK3518

Model Number : H96 Max RK3518

Report No. : CTA25040900502

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	9.480	2407.040	2416.520	0.5	PASS
		2437	9.080	2431.960	2441.040	0.5	PASS
		2462	9.080	2457.000	2466.080	0.5	PASS
11G	Ant1	2412	15.720	2404.440	2420.160	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	16.080	2404.440	2420.520	0.5	PASS
		2437	15.800	2429.440	2445.240	0.5	PASS
		2462	16.680	2453.960	2470.640	0.5	PASS
11N40SISO	Ant1	2422	35.520	2404.480	2440.000	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	35.280	2434.320	2469.600	0.5	PASS
11AX20SISO	Ant1	2412	16.800	2403.960	2420.760	0.5	PASS
		2437	16.160	2429.440	2445.600	0.5	PASS
		2462	16.800	2453.800	2470.600	0.5	PASS
11AX40SISO	Ant1	2422	35.680	2404.480	2440.160	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	35.120	2434.480	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



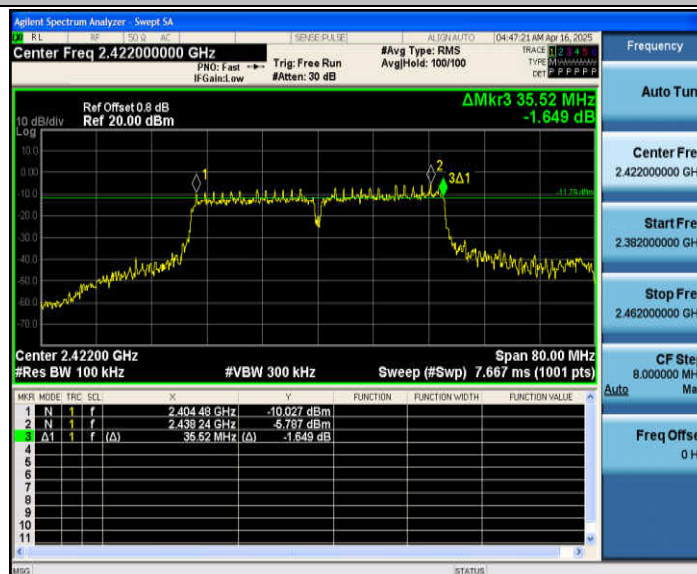
11N20SISO_Ant1_2437



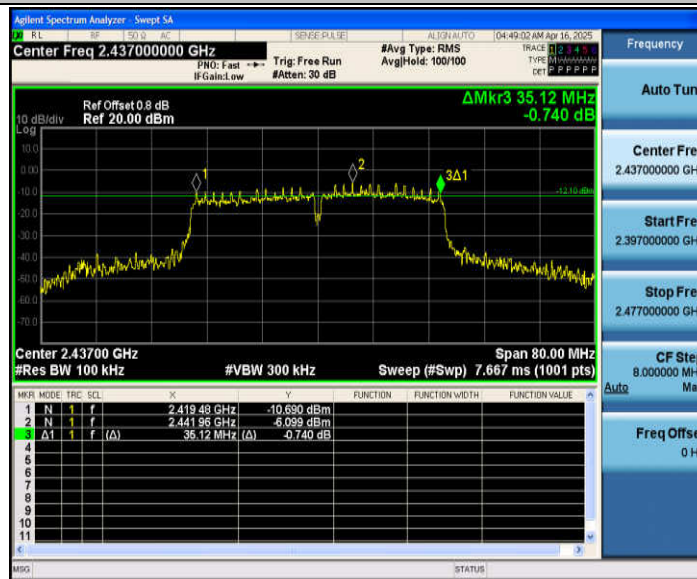
11N20SISO_Ant1_2462



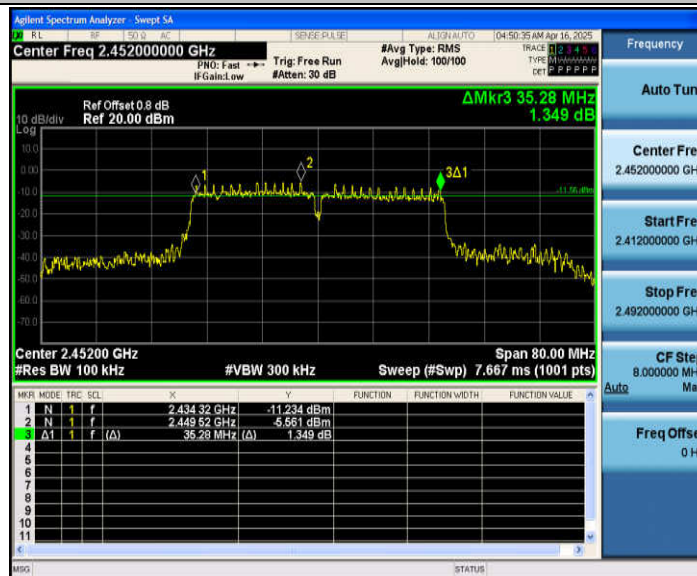
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



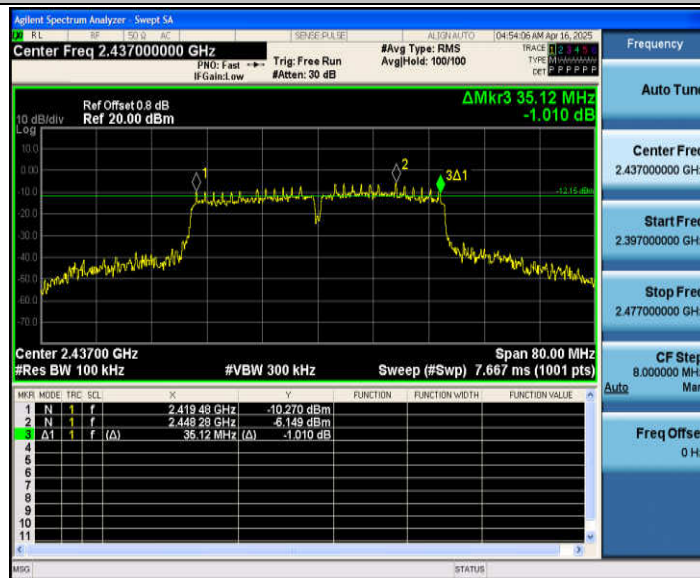
11AX20SISO_Ant1_2462



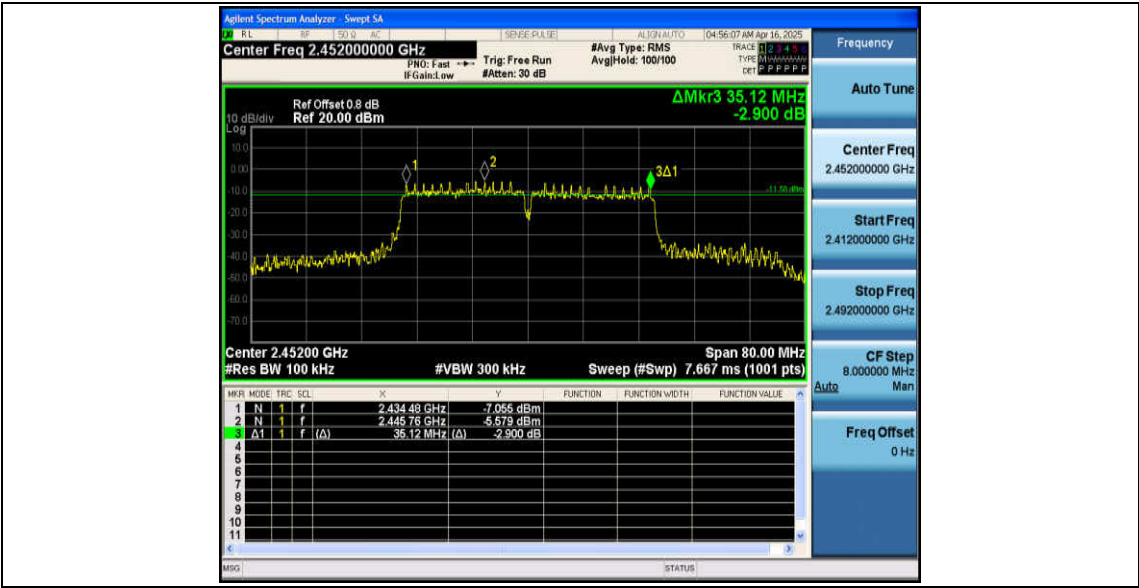
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_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	12.358	2405.7662	2418.1242	---	---
		2437	11.592	2431.0022	2442.5942	---	---
		2462	12.700	2455.4705	2468.1705	---	---
11G	Ant1	2412	16.830	2403.7431	2420.5731	---	---
		2437	16.632	2428.8321	2445.4641	---	---
		2462	16.924	2453.6206	2470.5446	---	---
11N20SISO	Ant1	2412	17.954	2403.2702	2421.2242	---	---
		2437	17.672	2428.3139	2445.9859	---	---
		2462	18.084	2453.1353	2471.2193	---	---
11N40SISO	Ant1	2422	36.369	2404.2089	2440.5779	---	---
		2437	36.057	2419.0802	2455.1372	---	---
		2452	36.478	2433.8189	2470.2969	---	---
11AX20SISO	Ant1	2412	17.922	2403.2361	2421.1581	---	---
		2437	17.627	2428.3267	2445.9537	---	---
		2462	18.067	2453.1259	2471.1929	---	---
11AX40SISO	Ant1	2422	36.372	2404.2013	2440.5733	---	---
		2437	36.028	2419.1163	2455.1443	---	---
		2452	36.326	2433.9241	2470.2501	---	---

Test Graphs

11B_Ant1_2412



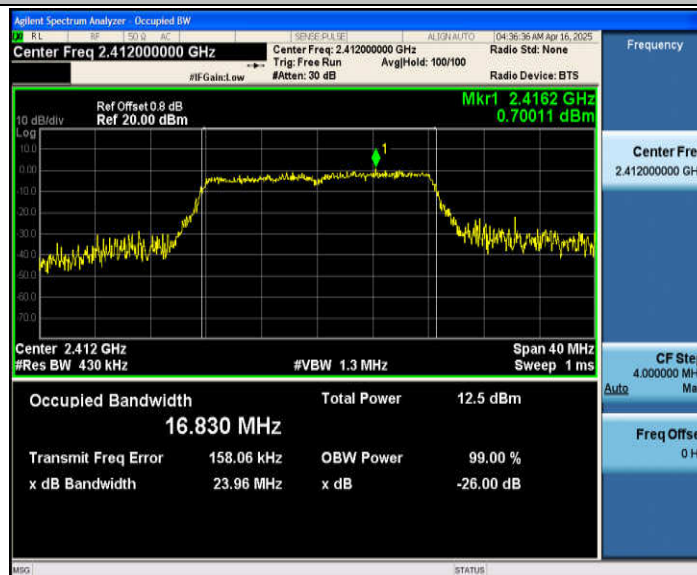
11B_Ant1_2437



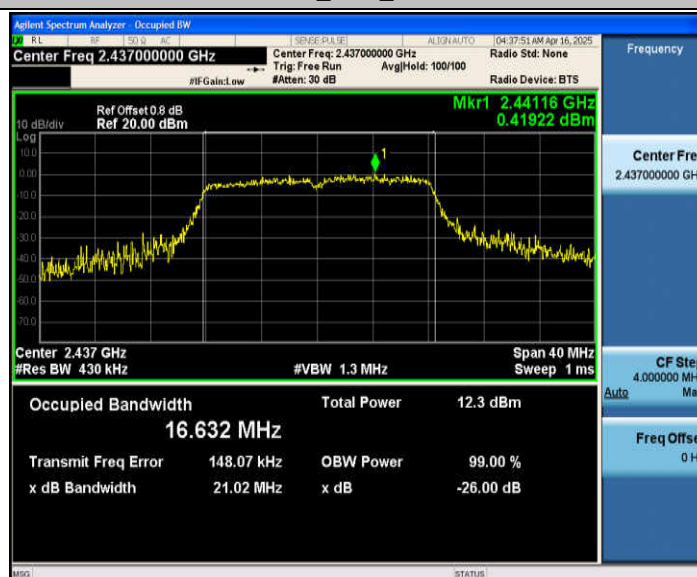
11B_Ant1_2462



11G_Ant1_2412



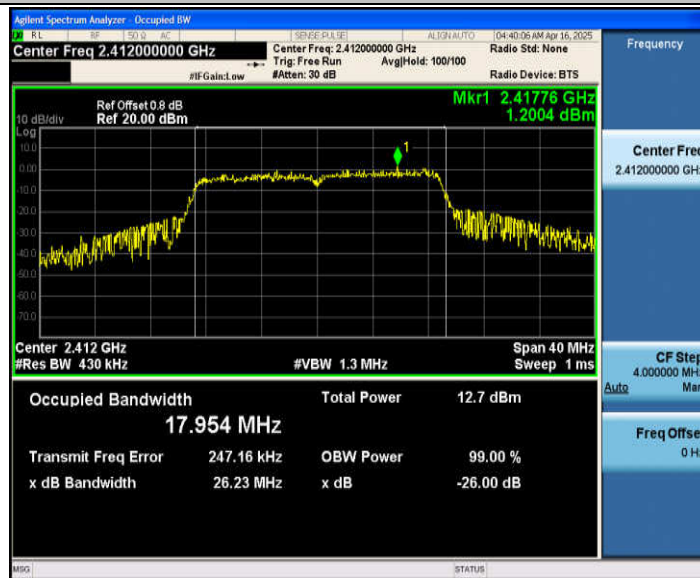
11G_Ant1_2437



11G_Ant1_2462



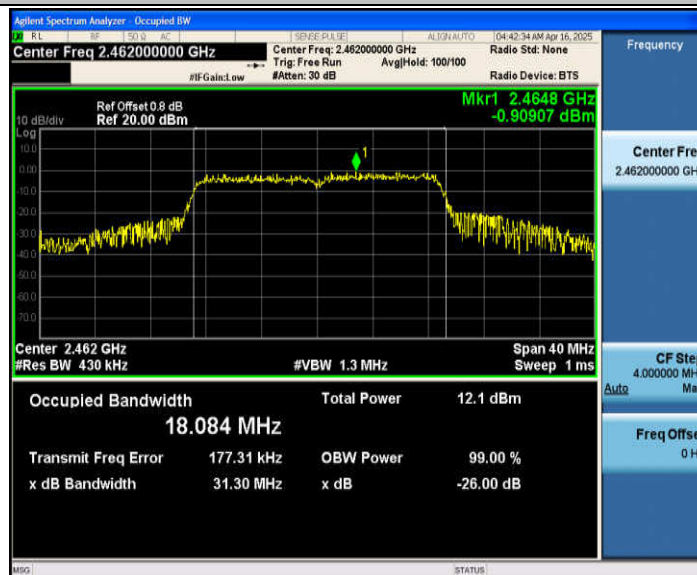
11N20SISO_Ant1_2412



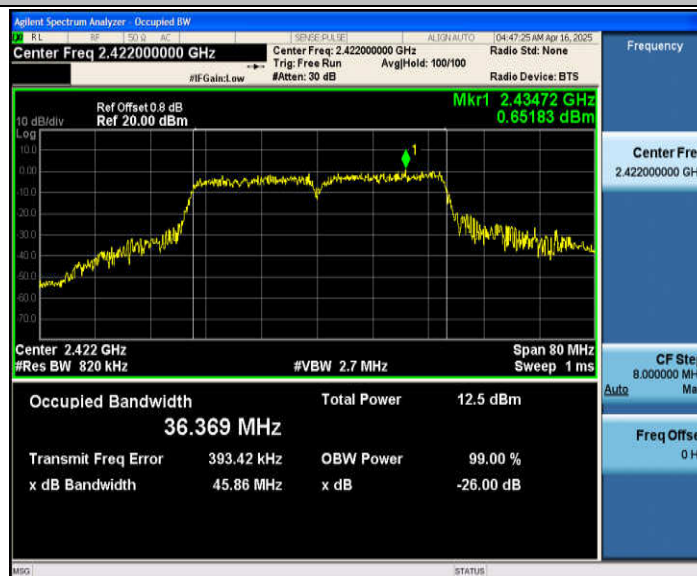
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



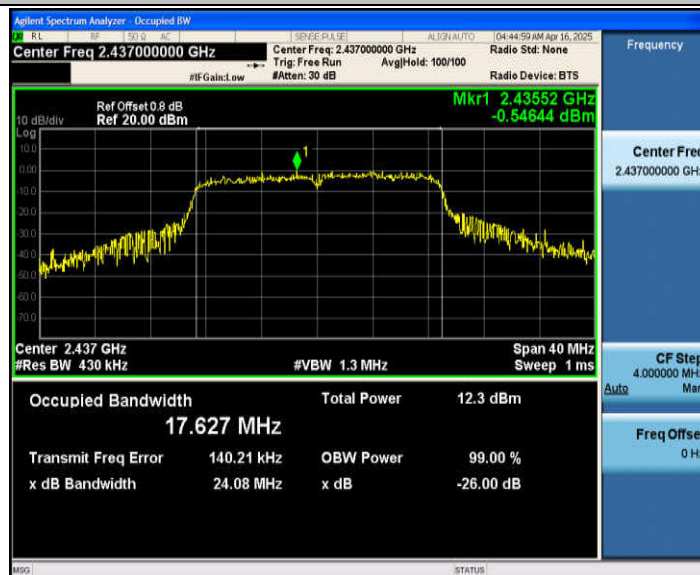
11N40SISO_Ant1_2452



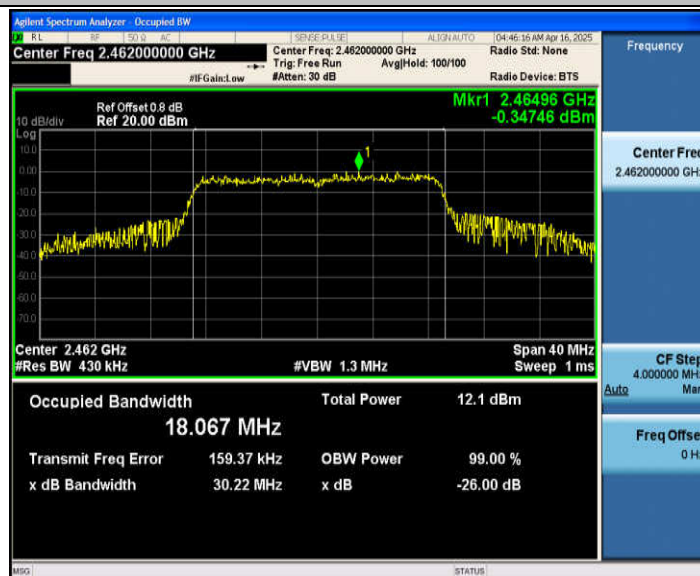
11AX20SISO_Ant1_2412

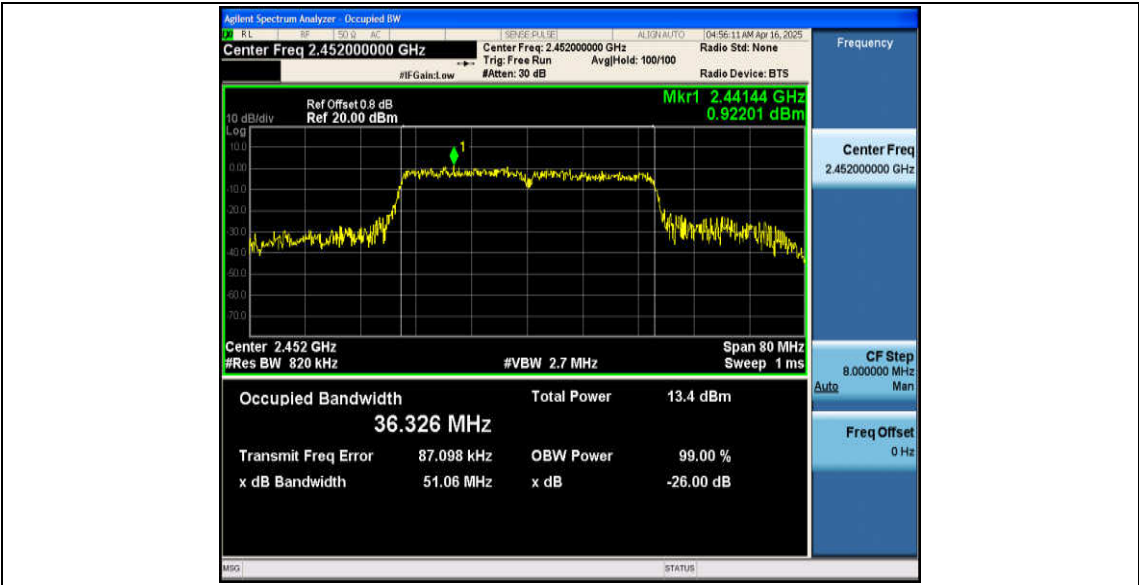


11AX20SISO_Ant1_2437



11AX20SISO_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	14.38	≤30.00	PASS
		2437	13.52	≤30.00	PASS
		2462	13.86	≤30.00	PASS
11G	Ant1	2412	13.19	≤30.00	PASS
		2437	12.75	≤30.00	PASS
		2462	12.64	≤30.00	PASS
11N20SISO	Ant1	2412	13.04	≤30.00	PASS
		2437	12.81	≤30.00	PASS
		2462	12.57	≤30.00	PASS
11N40SISO	Ant1	2422	12.56	≤30.00	PASS
		2437	12.21	≤30.00	PASS
		2452	13.32	≤30.00	PASS
11AX20SISO	Ant1	2412	13.29	≤30.00	PASS
		2437	12.72	≤30.00	PASS
		2462	12.64	≤30.00	PASS
11AX40SISO	Ant1	2422	12.53	≤30.00	PASS
		2437	12.11	≤30.00	PASS
		2452	13.19	≤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	-10.96	≤8.00	PASS
		2437	-11.37	≤8.00	PASS
		2462	-11.71	≤8.00	PASS
11G	Ant1	2412	-17.94	≤8.00	PASS
		2437	-18.66	≤8.00	PASS
		2462	-18.36	≤8.00	PASS
11N20SISO	Ant1	2412	-17.80	≤8.00	PASS
		2437	-19.17	≤8.00	PASS
		2462	-18.07	≤8.00	PASS
11N40SISO	Ant1	2422	-20.96	≤8.00	PASS
		2437	-20.80	≤8.00	PASS
		2452	-21.66	≤8.00	PASS
11AX20SISO	Ant1	2412	-19.82	≤8.00	PASS
		2437	-19.03	≤8.00	PASS
		2462	-18.99	≤8.00	PASS
11AX40SISO	Ant1	2422	-20.64	≤8.00	PASS
		2437	-21.76	≤8.00	PASS
		2452	-21.28	≤8.00	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



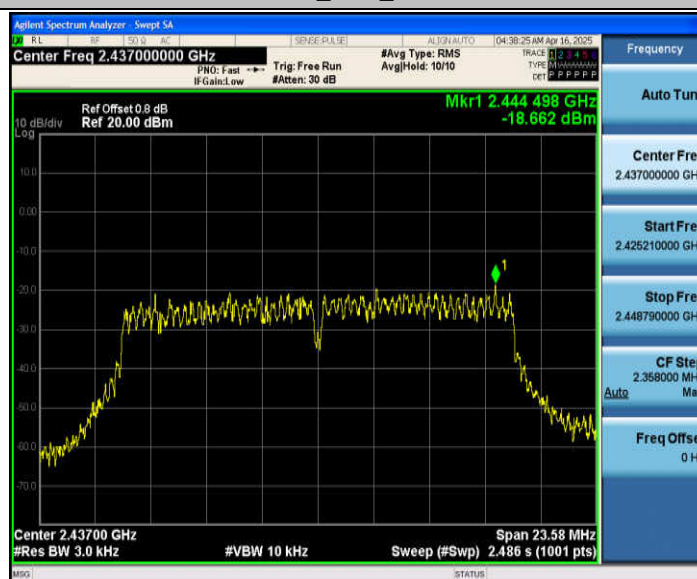
11B_Ant1_2462



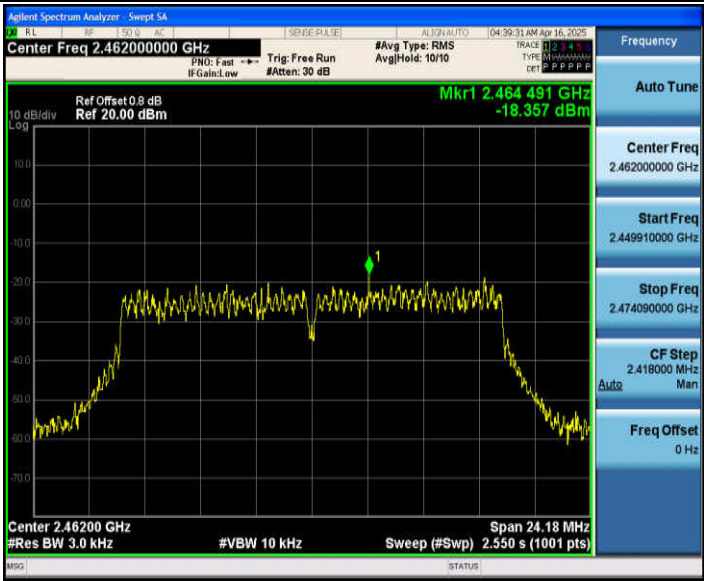
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



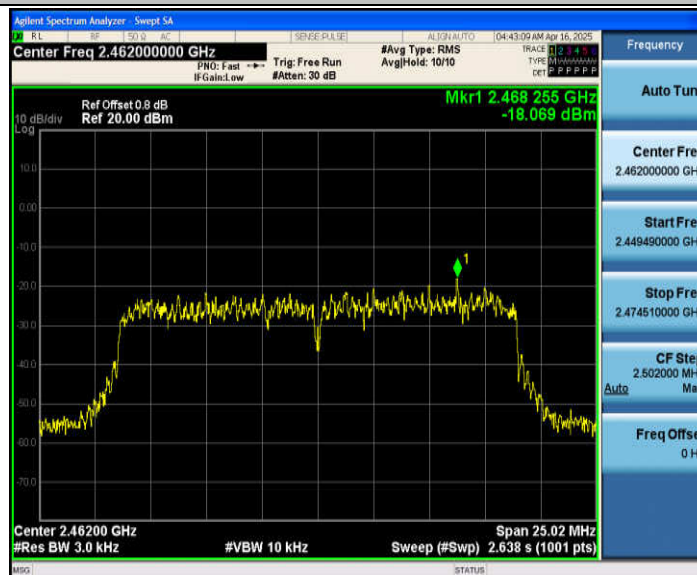
11N20SISO_Ant1_2412



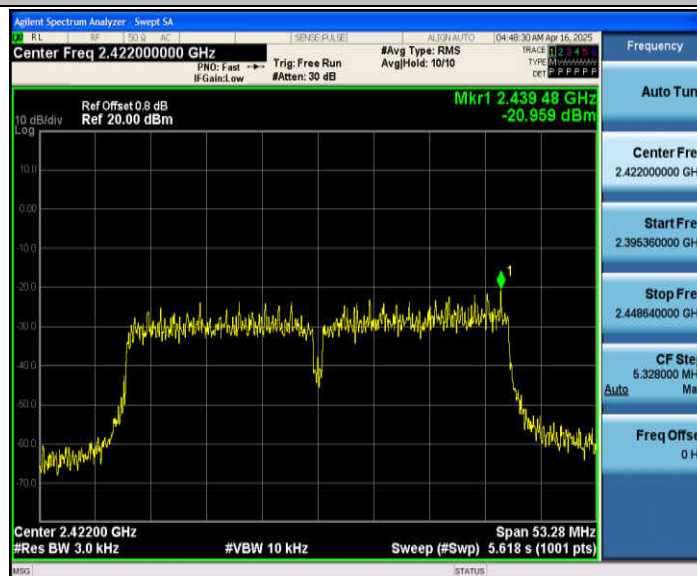
11N20SISO_Ant1_2437



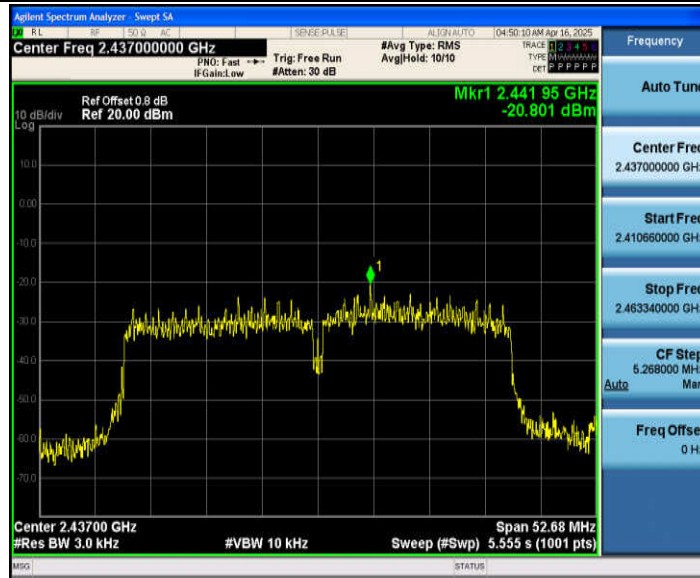
11N20SISO_Ant1_2462



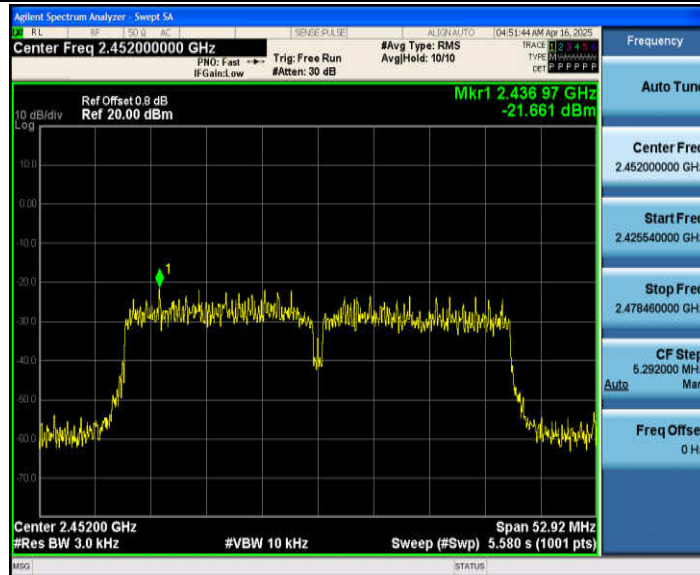
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



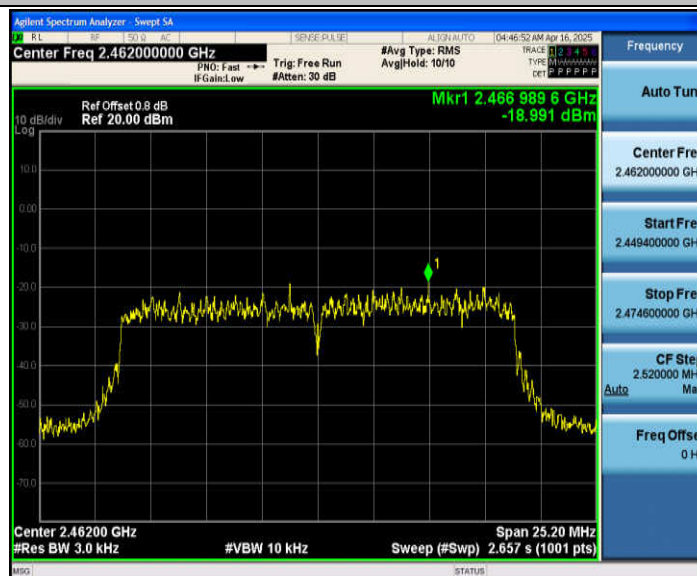
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452

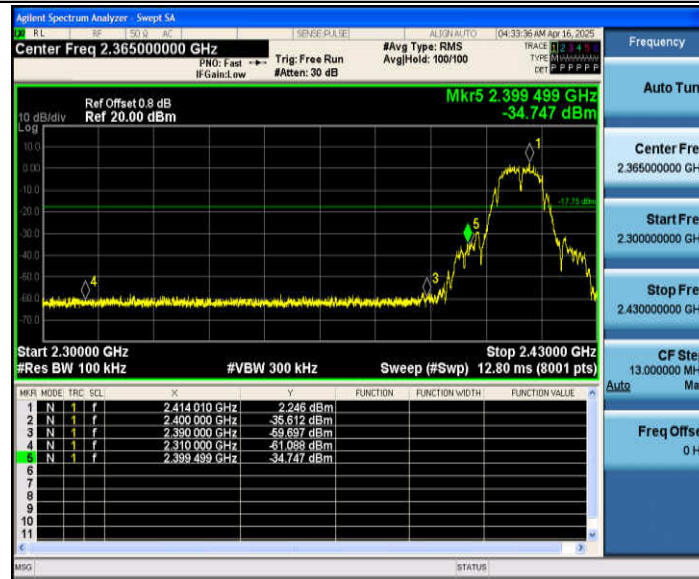
Appendix E: Band edge measurements

Test Result

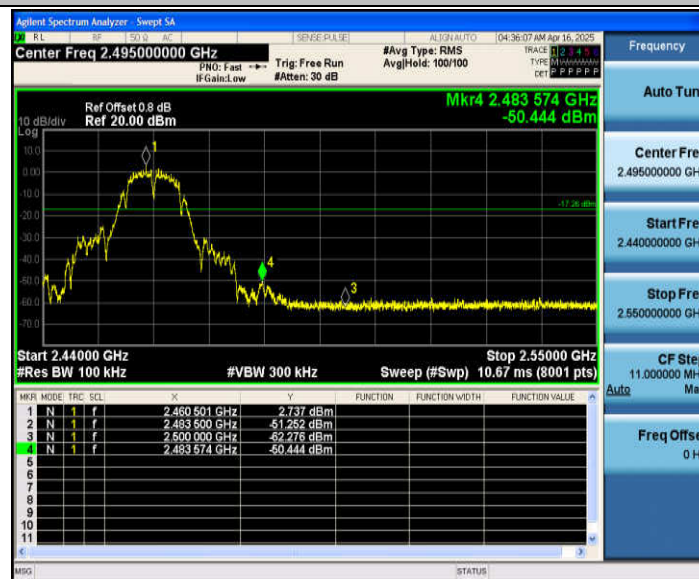
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.25	-34.75	≤-17.75	PASS
		High	2462	2.74	-50.44	≤-17.26	PASS
11G	Ant1	Low	2412	-2.96	-35.33	≤-22.96	PASS
		High	2462	-3.19	-37.29	≤-23.19	PASS
11N20SISO	Ant1	Low	2412	-2.37	-36.33	≤-22.37	PASS
		High	2462	-3.40	-39.15	≤-23.4	PASS
11N40SISO	Ant1	Low	2422	-5.70	-39.9	≤-25.7	PASS
		High	2452	-5.42	-35.95	≤-25.42	PASS
11AX20SISO	Ant1	Low	2412	-2.30	-36.83	≤-22.3	PASS
		High	2462	-3.16	-38.74	≤-23.16	PASS
11AX40SISO	Ant1	Low	2422	-5.55	-39.73	≤-25.55	PASS
		High	2452	-5.42	-35.64	≤-25.42	PASS

Test Graphs

11B_Ant1_Low_2412



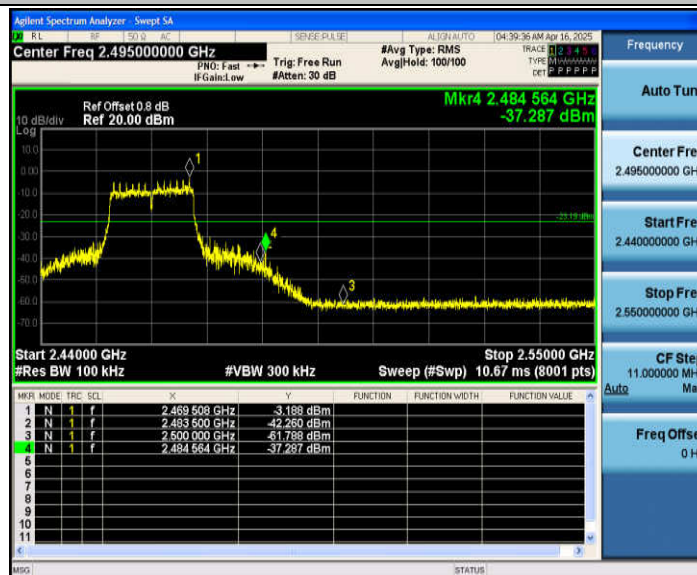
11B_Ant1_High_2462



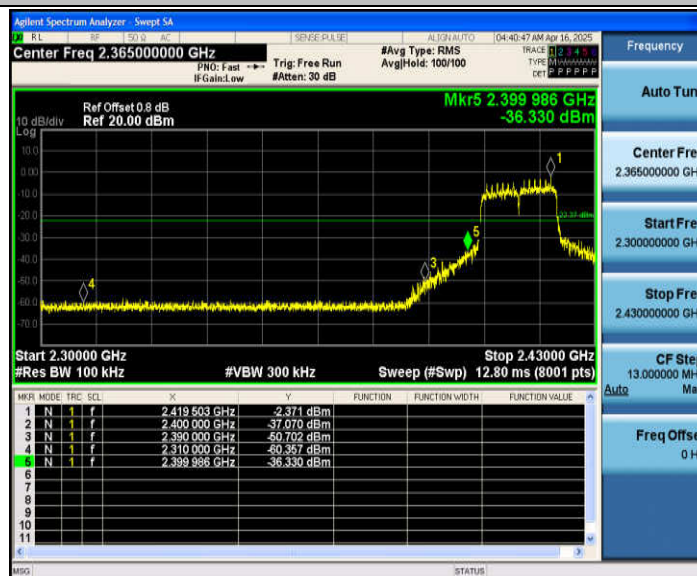
11G_Ant1_Low_2412



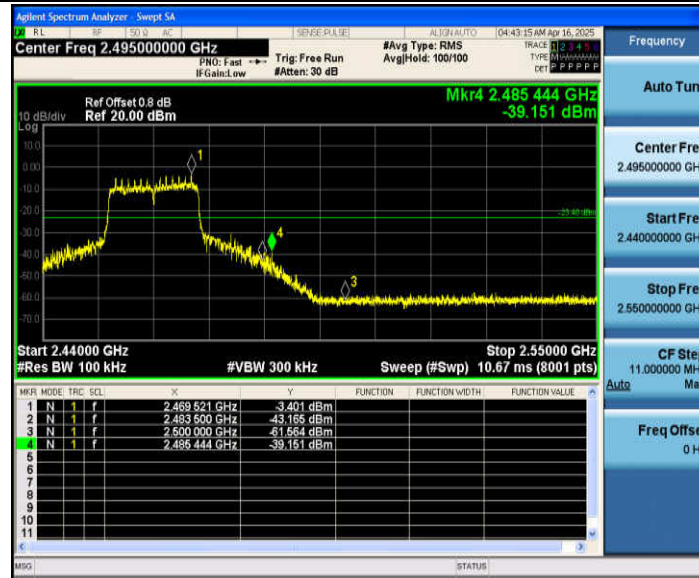
11G_Ant1_High_2462



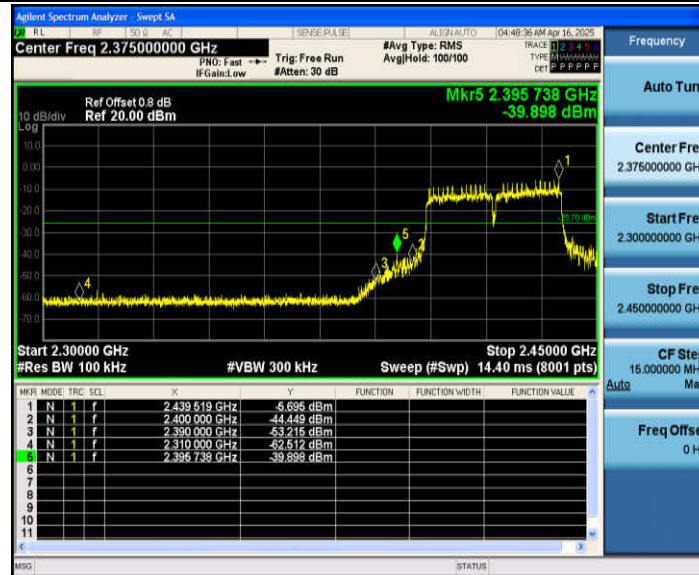
11N20SISO_Ant1_Low_2412



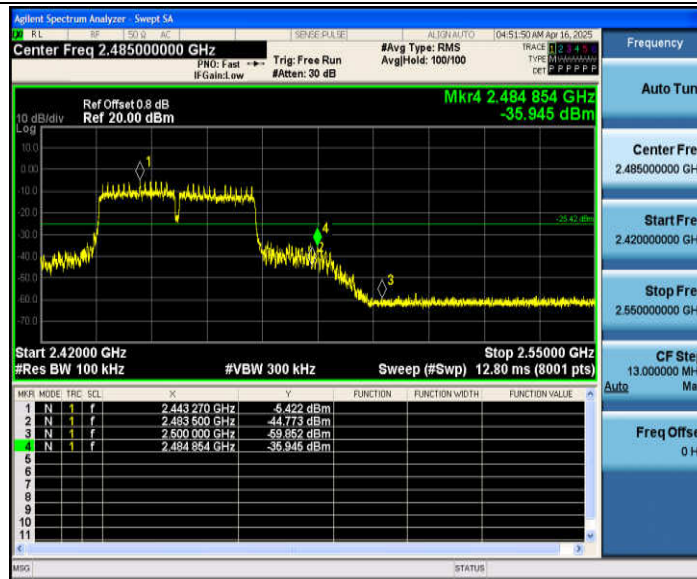
11N20SISO_Ant1_High_2462



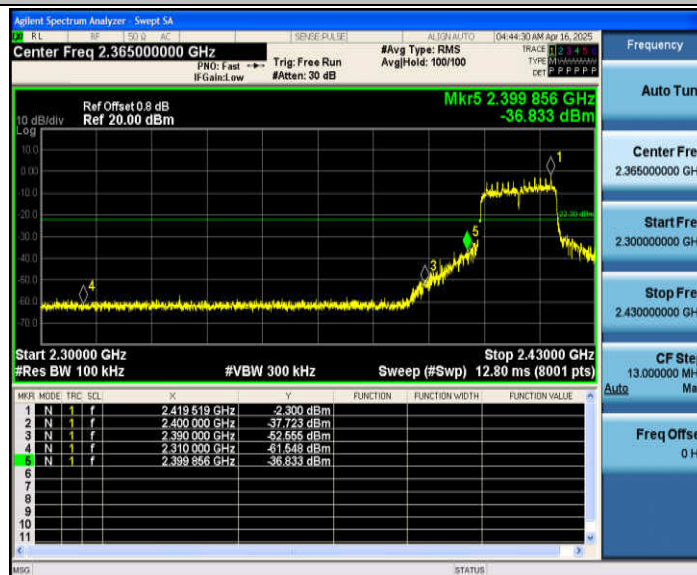
11N40SISO_Ant1_Low_2422



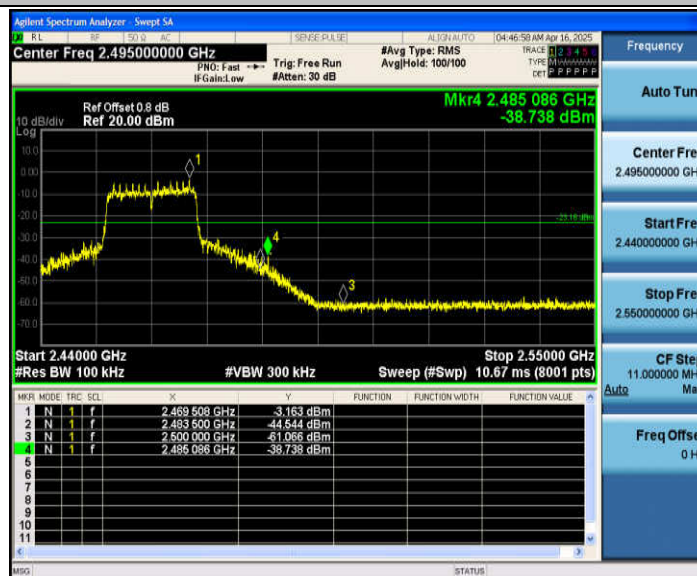
11N40SISO_Ant1_High_2452



11AX20SISO_Ant1_Low_2412



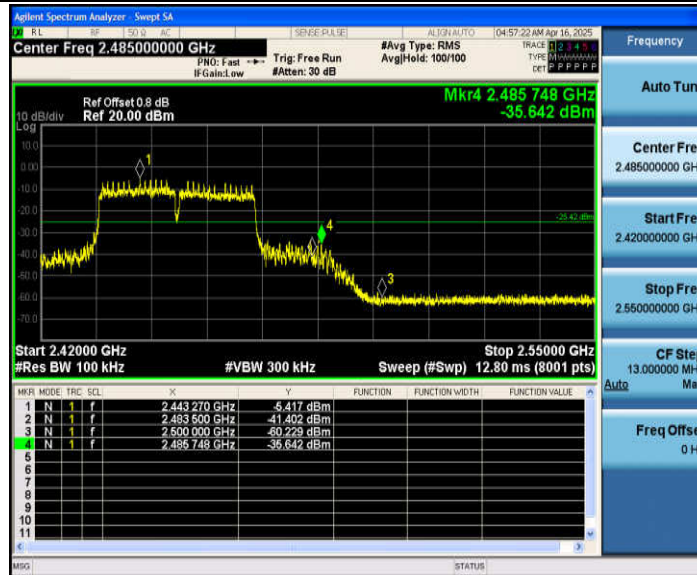
11AX20SISO_Ant1_High_2462



11AX40SISO_Ant1_Low_2422



11AX40SISO_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	2.71	2.71	---	PASS
			30~1000	2.71	-66.66	≤-17.29	PASS
			1000~26500	2.71	-39.44	≤-17.29	PASS
		2437	Reference	4.23	4.23	---	PASS
			30~1000	4.23	-67.92	≤-15.77	PASS
			1000~26500	4.23	-36.52	≤-15.77	PASS
		2462	Reference	4.37	4.37	---	PASS
			30~1000	4.37	-67.89	≤-15.63	PASS
			1000~26500	4.37	-30.87	≤-15.63	PASS
11G	Ant1	2412	Reference	-1.45	-1.45	---	PASS
			30~1000	-1.45	-66.82	≤-21.45	PASS
			1000~26500	-1.45	-45.29	≤-21.45	PASS
		2437	Reference	-1.66	-1.66	---	PASS
			30~1000	-1.66	-67.66	≤-21.66	PASS
			1000~26500	-1.66	-48.8	≤-21.66	PASS
		2462	Reference	-1.32	-1.32	---	PASS
			30~1000	-1.32	-68.49	≤-21.32	PASS
			1000~26500	-1.32	-45.46	≤-21.32	PASS
11N20SISO	Ant1	2412	Reference	-1.29	-1.29	---	PASS
			30~1000	-1.29	-68.27	≤-21.29	PASS
			1000~26500	-1.29	-51.29	≤-21.29	PASS
		2437	Reference	-1.56	-1.56	---	PASS
			30~1000	-1.56	-67.75	≤-21.56	PASS
			1000~26500	-1.56	-50.23	≤-21.56	PASS
		2462	Reference	-2.24	-2.24	---	PASS
			30~1000	-2.24	-67.36	≤-22.24	PASS
			1000~26500	-2.24	-43.33	≤-22.24	PASS
11N40SISO	Ant1	2422	Reference	-4.02	-4.02	---	PASS
			30~1000	-4.02	-67.37	≤-24.02	PASS
			1000~26500	-4.02	-46.26	≤-24.02	PASS
		2437	Reference	-4.68	-4.68	---	PASS
			30~1000	-4.68	-67.91	≤-24.68	PASS
			1000~26500	-4.68	-46.11	≤-24.68	PASS
		2452	Reference	-3.83	-3.83	---	PASS
			30~1000	-3.83	-67.72	≤-23.83	PASS
			1000~26500	-3.83	-48.65	≤-23.83	PASS
11AX20SISO	Ant1	2412	Reference	-1.21	-1.21	---	PASS

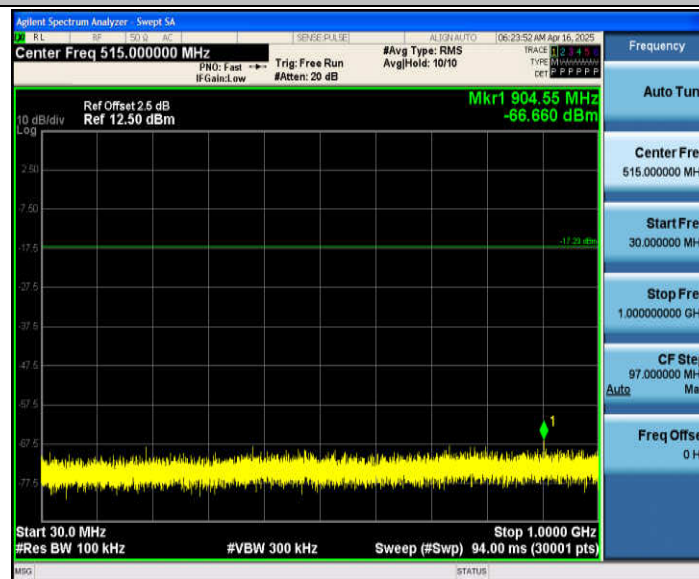
			30~1000	-1.21	-67.63	≤ -21.21	PASS
			1000~26500	-1.21	-50.64	≤ -21.21	PASS
		2437	Reference	-1.59	-1.59	---	PASS
			30~1000	-1.59	-68.39	≤ -21.59	PASS
			1000~26500	-1.59	-52.51	≤ -21.59	PASS
		2462	Reference	-2.44	-2.44	---	PASS
			30~1000	-2.44	-67.58	≤ -22.44	PASS
			1000~26500	-2.44	-44.84	≤ -22.44	PASS
11AX40SISO	Ant1	2422	Reference	-3.94	-3.94	---	PASS
			30~1000	-3.94	-67.5	≤ -23.94	PASS
			1000~26500	-3.94	-51.79	≤ -23.94	PASS
		2437	Reference	-4.75	-4.75	---	PASS
			30~1000	-4.75	-68.01	≤ -24.75	PASS
			1000~26500	-4.75	-49.72	≤ -24.75	PASS
		2452	Reference	-4.10	-4.10	---	PASS
			30~1000	-4.10	-67.4	≤ -24.1	PASS
			1000~26500	-4.10	-48.41	≤ -24.1	PASS

Test Graphs

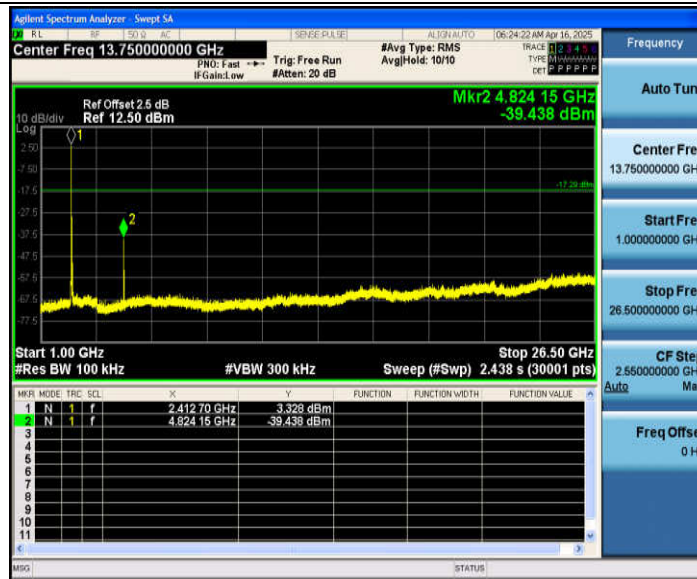
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



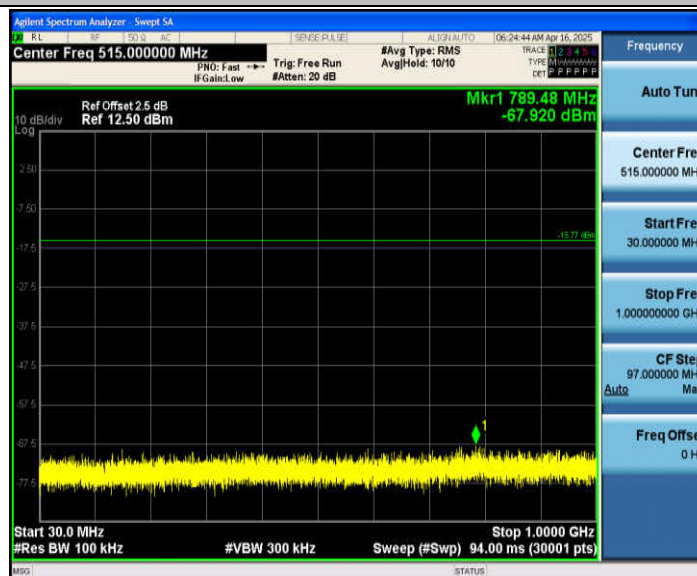
11B_Ant1_2412_1000~26500



11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



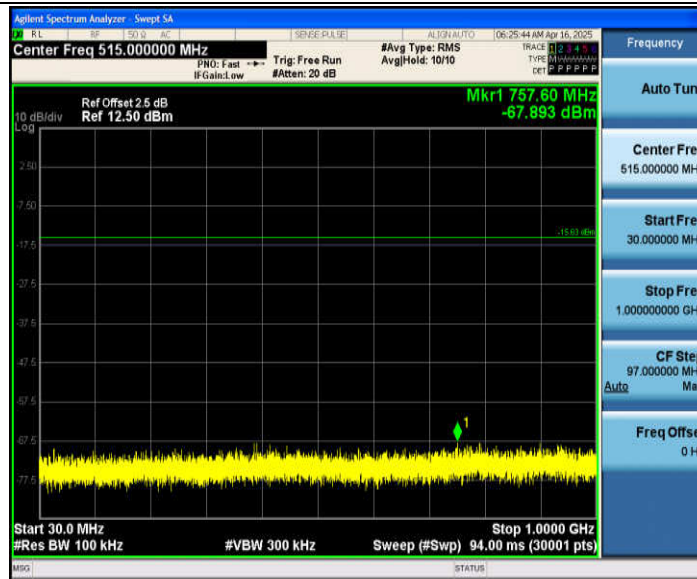
11B_Ant1_2437_1000~26500



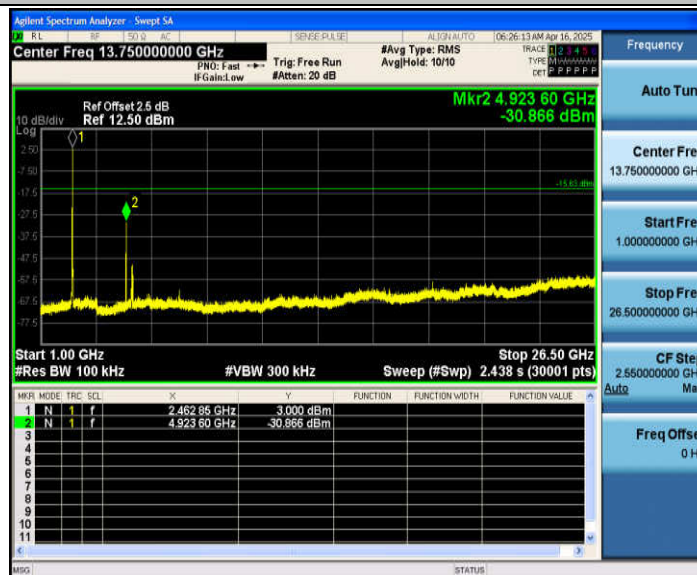
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



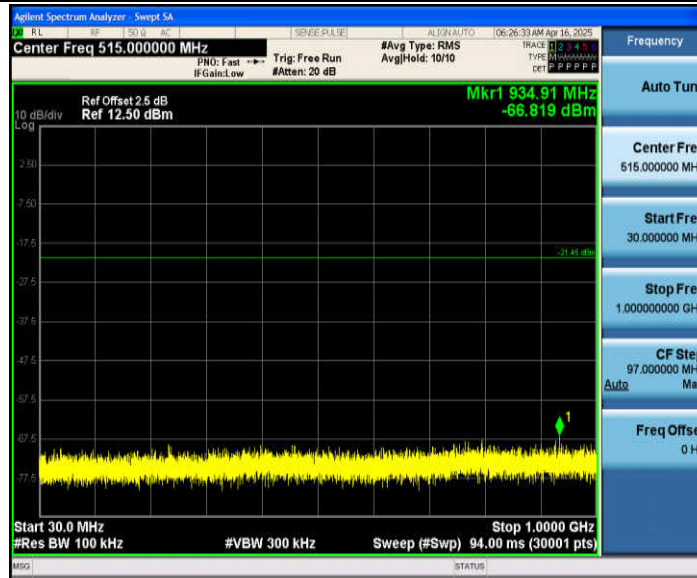
11B_Ant1_2462_1000~26500



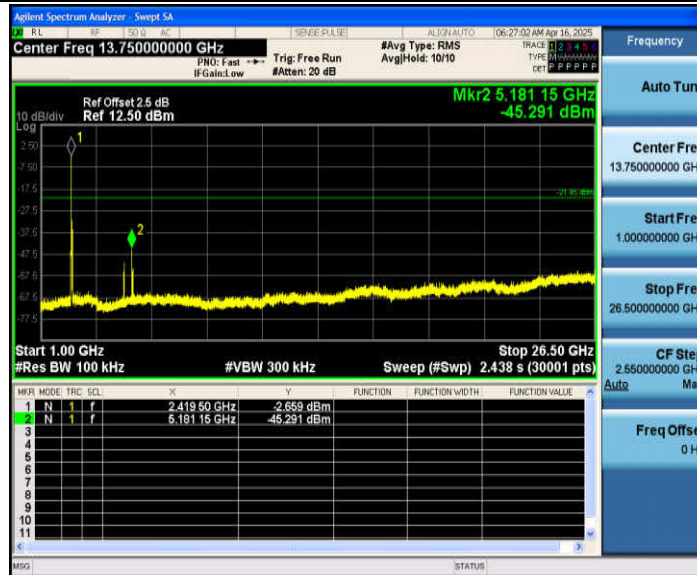
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference