

FCC Appendix RF Test Data

FCC ID : 2BQVR-GQ-ZH-75H

Company : Dongguan Kingone Electronics Co., Ltd.

EUT : Interactive Smart Board 75inch TV

Model Number : GQ-ZH-75H

Report No. : CTA25060901103

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	9.600	2406.960	2416.560	0.5	PASS
		2437	9.080	2431.960	2441.040	0.5	PASS
		2462	8.600	2457.440	2466.040	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	16.000	2454.200	2470.200	0.5	PASS
11N20SISO	Ant1	2412	16.200	2404.440	2420.640	0.5	PASS
		2437	15.920	2429.440	2445.360	0.5	PASS
		2462	17.120	2453.520	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	35.120	2434.400	2469.520	0.5	PASS
11AX20SISO	Ant1	2412	16.320	2404.440	2420.760	0.5	PASS
		2437	15.920	2429.440	2445.360	0.5	PASS
		2462	16.320	2454.040	2470.360	0.5	PASS
11AX40SISO	Ant1	2422	35.120	2404.480	2439.600	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



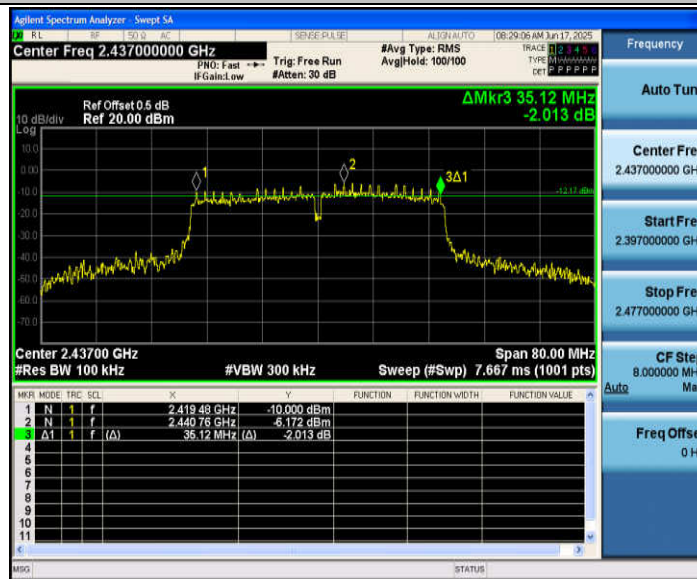
11N20SISO_Ant1_2462



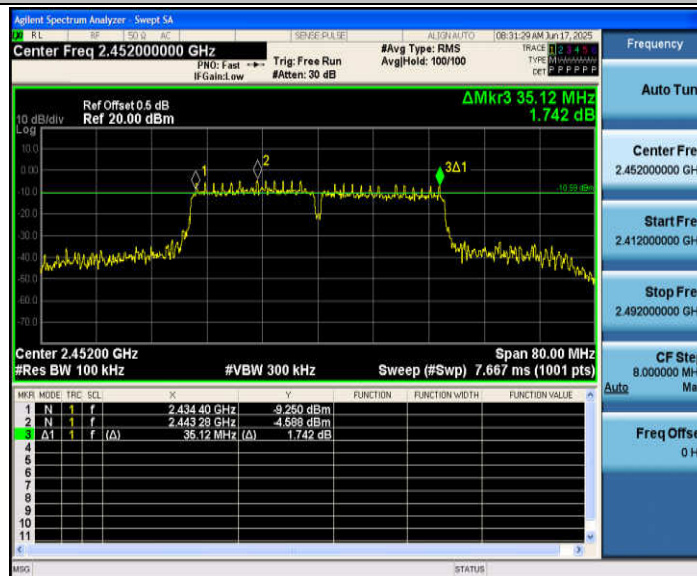
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



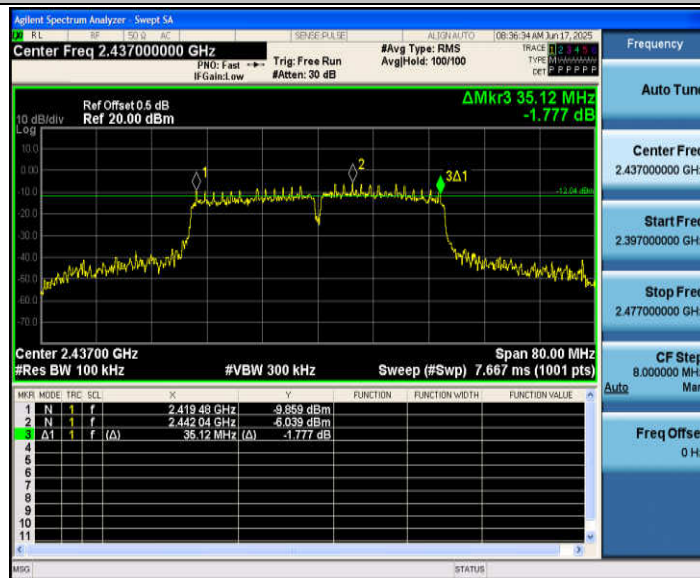
11AX20SISO_Ant1_2462



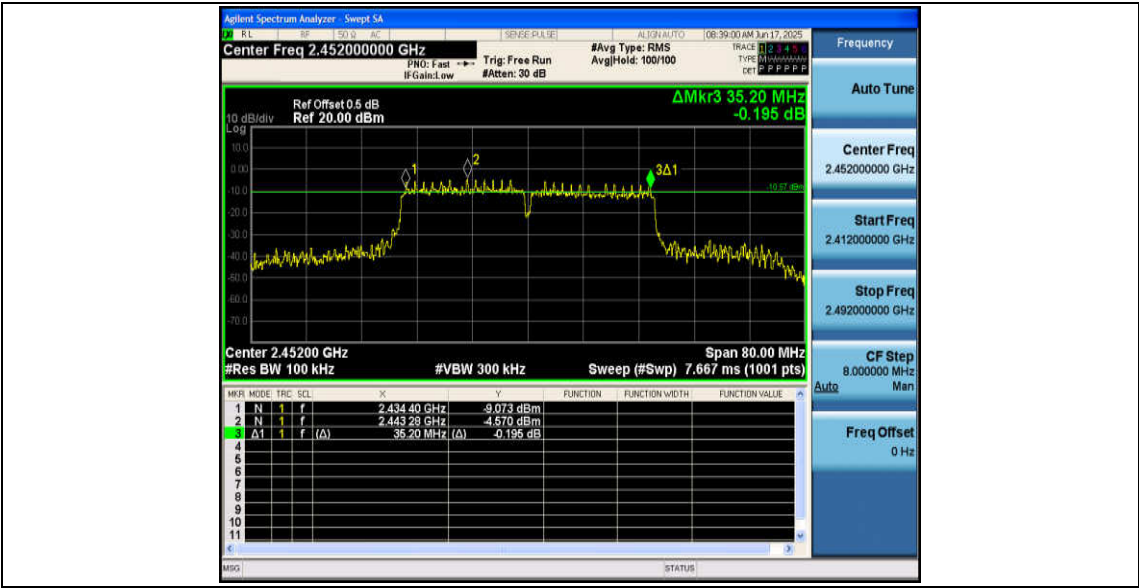
11AX40SISO_Ant1_2422



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	12.381	2405.7547	2418.1357	---	---
		2437	11.673	2430.9867	2442.6597	---	---
		2462	12.725	2455.4458	2468.1708	---	---
11G	Ant1	2412	16.822	2403.7743	2420.5963	---	---
		2437	16.628	2428.8157	2445.4437	---	---
		2462	16.955	2453.6056	2470.5606	---	---
11N20SISO	Ant1	2412	17.850	2403.2603	2421.1103	---	---
		2437	17.654	2428.2930	2445.9470	---	---
		2462	17.929	2453.1586	2471.0876	---	---
11N40SISO	Ant1	2422	36.295	2404.1090	2440.4040	---	---
		2437	35.961	2419.1157	2455.0767	---	---
		2452	36.423	2433.8087	2470.2317	---	---
11AX20SISO	Ant1	2412	17.966	2403.2261	2421.1921	---	---
		2437	17.550	2428.3387	2445.8887	---	---
		2462	18.050	2453.1286	2471.1786	---	---
11AX40SISO	Ant1	2422	36.336	2404.1453	2440.4813	---	---
		2437	36.014	2419.1211	2455.1351	---	---
		2452	36.418	2433.8603	2470.2783	---	---

Test Graphs

11B_Ant1_2412



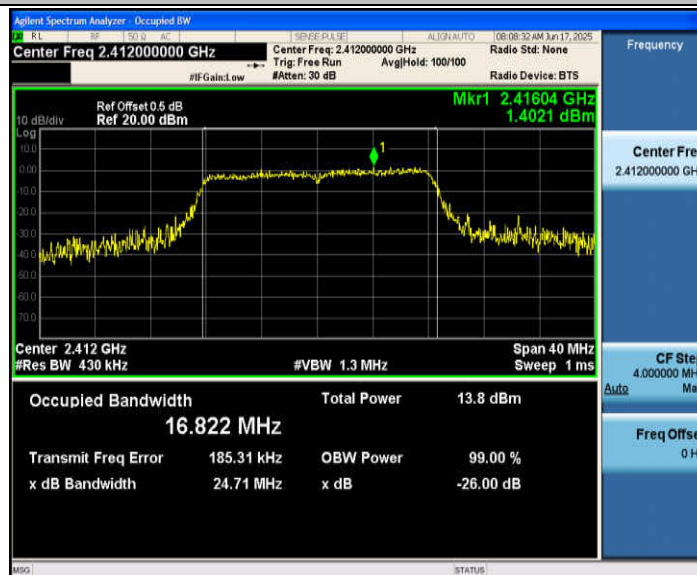
11B_Ant1_2437



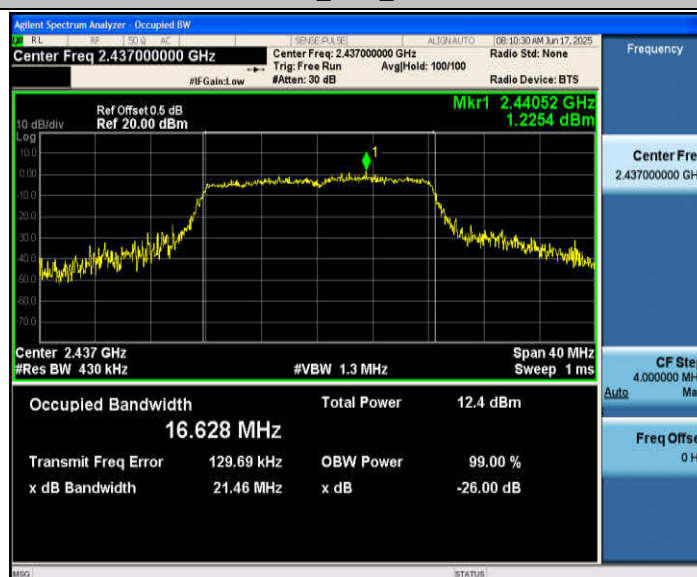
11B_Ant1_2462



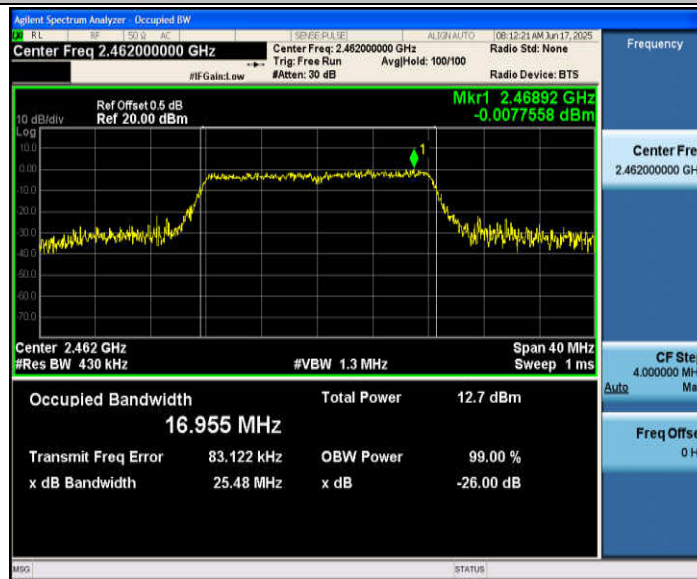
11G_Ant1_2412



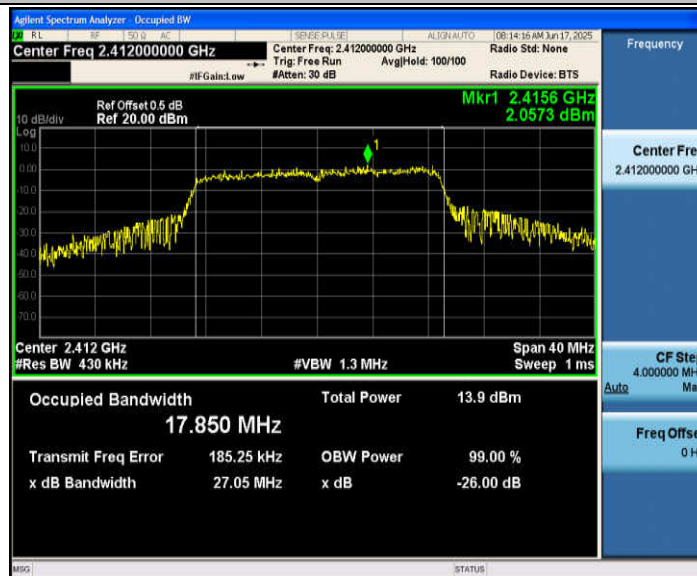
11G_Ant1_2437



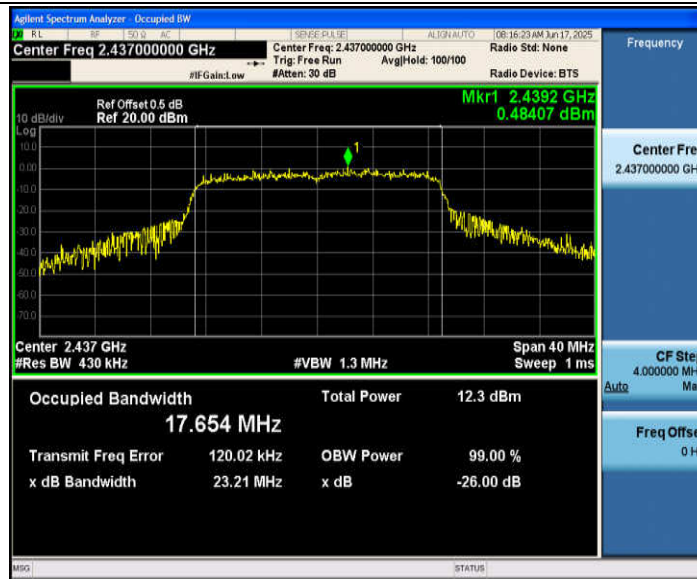
11G_Ant1_2462



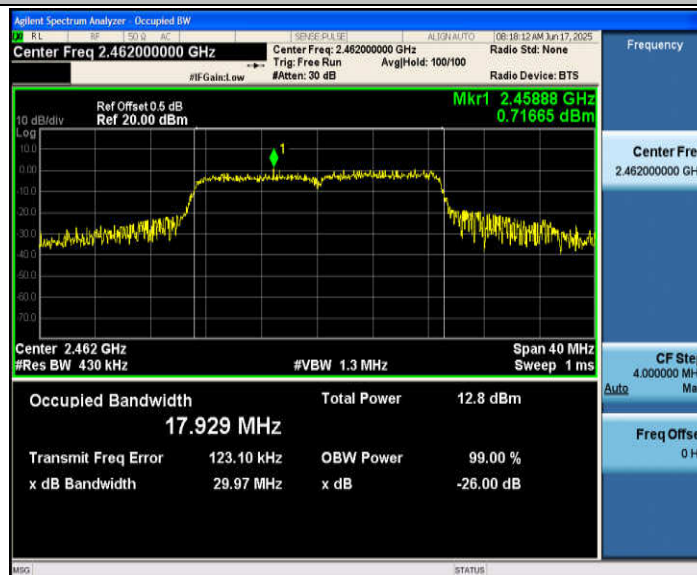
11N20SISO_Ant1_2412



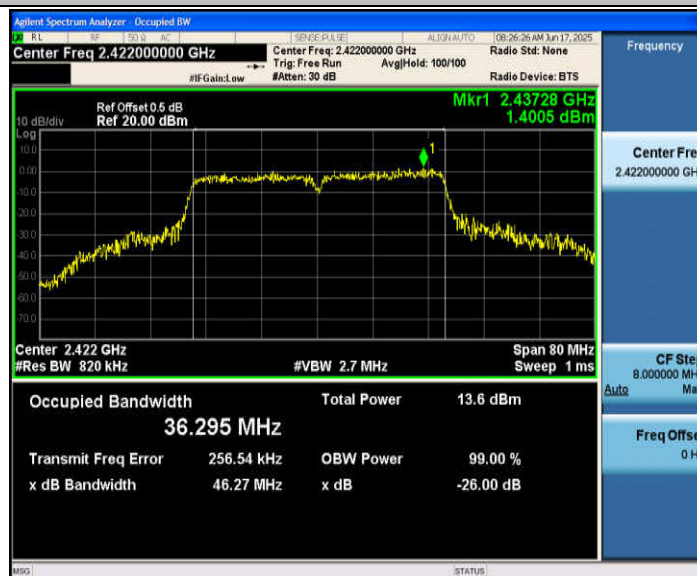
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



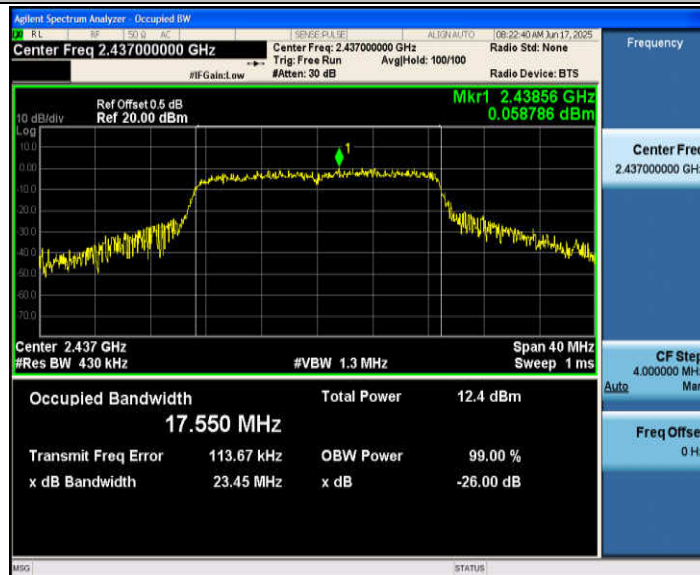
11N40SISO_Ant1_2452



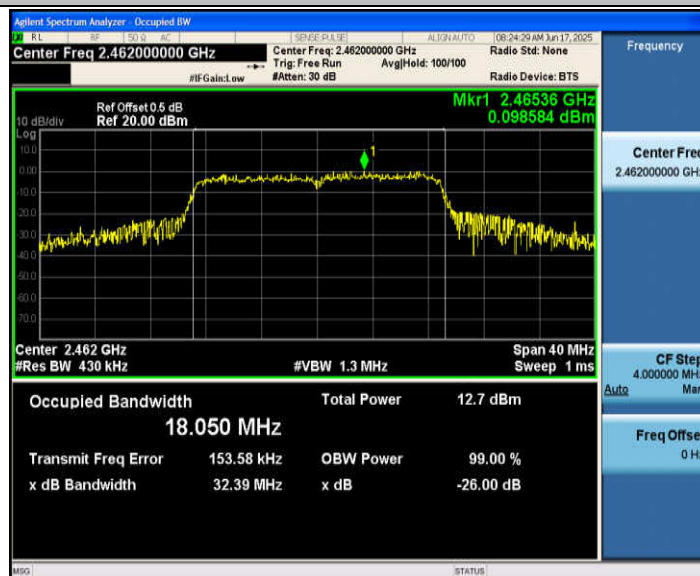
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



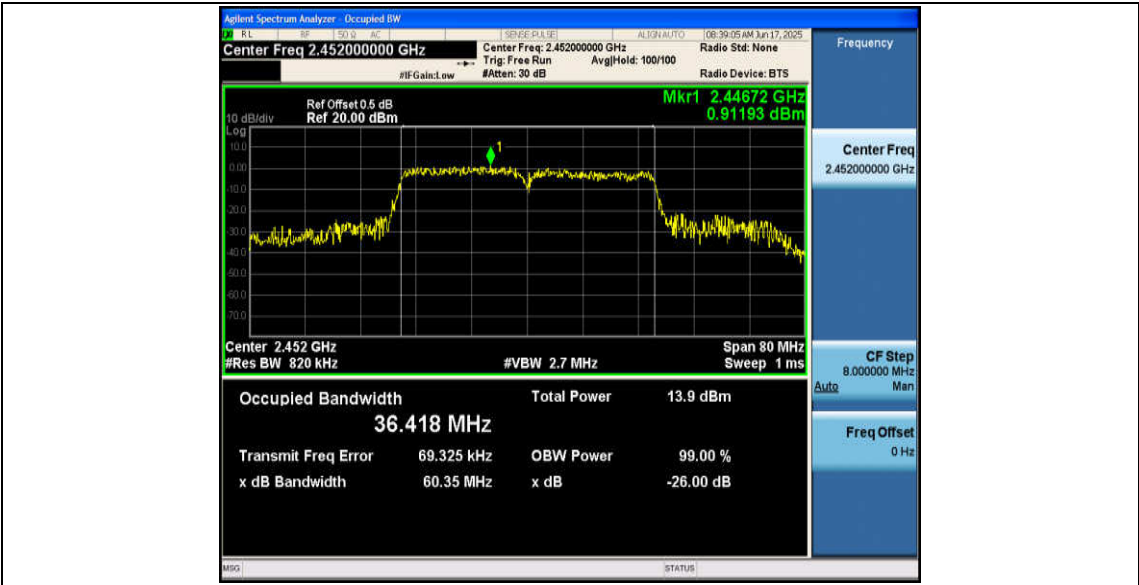
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.85	≤30.00	PASS
		2437	13.82	≤30.00	PASS
		2462	13.53	≤30.00	PASS
11G	Ant1	2412	14.53	≤30.00	PASS
		2437	13.00	≤30.00	PASS
		2462	13.25	≤30.00	PASS
11N20SISO	Ant1	2412	14.36	≤30.00	PASS
		2437	12.92	≤30.00	PASS
		2462	13.42	≤30.00	PASS
11N40SISO	Ant1	2422	13.78	≤30.00	PASS
		2437	12.11	≤30.00	PASS
		2452	14.06	≤30.00	PASS
11AX20SISO	Ant1	2412	14.19	≤30.00	PASS
		2437	12.76	≤30.00	PASS
		2462	13.13	≤30.00	PASS
11AX40SISO	Ant1	2422	13.74	≤30.00	PASS
		2437	12.12	≤30.00	PASS
		2452	13.97	≤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	-11.53	≤8.00	PASS
		2437	-12.42	≤8.00	PASS
		2462	-11.61	≤8.00	PASS
11G	Ant1	2412	-16.25	≤8.00	PASS
		2437	-18.50	≤8.00	PASS
		2462	-17.64	≤8.00	PASS
11N20SISO	Ant1	2412	-17.42	≤8.00	PASS
		2437	-18.22	≤8.00	PASS
		2462	-18.64	≤8.00	PASS
11N40SISO	Ant1	2422	-20.61	≤8.00	PASS
		2437	-21.73	≤8.00	PASS
		2452	-20.57	≤8.00	PASS
11AX20SISO	Ant1	2412	-16.78	≤8.00	PASS
		2437	-18.74	≤8.00	PASS
		2462	-17.93	≤8.00	PASS
11AX40SISO	Ant1	2422	-19.68	≤8.00	PASS
		2437	-21.60	≤8.00	PASS
		2452	-20.84	≤8.00	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



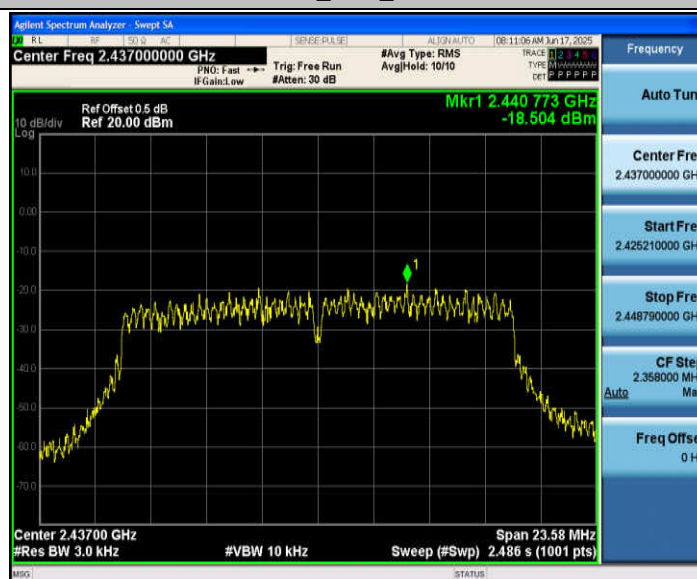
11B_Ant1_2462



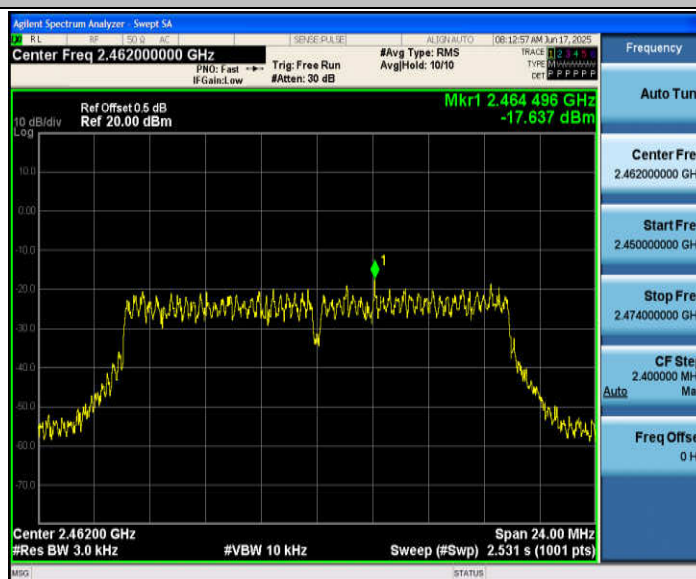
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



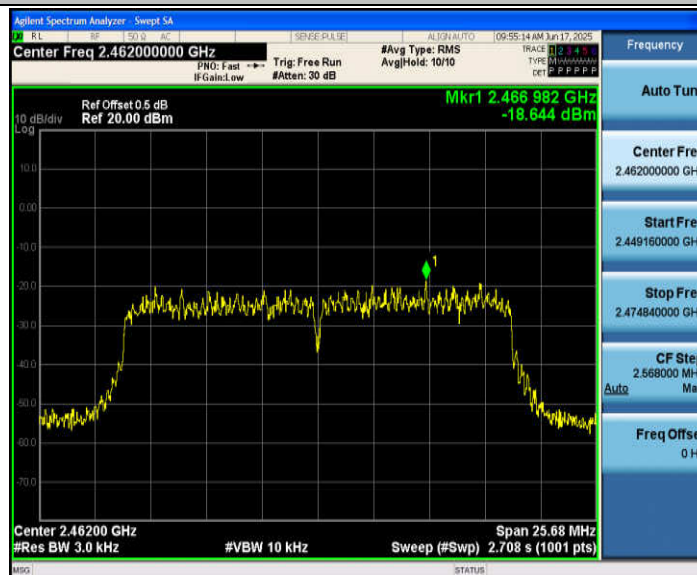
11N20SISO_Ant1_2412



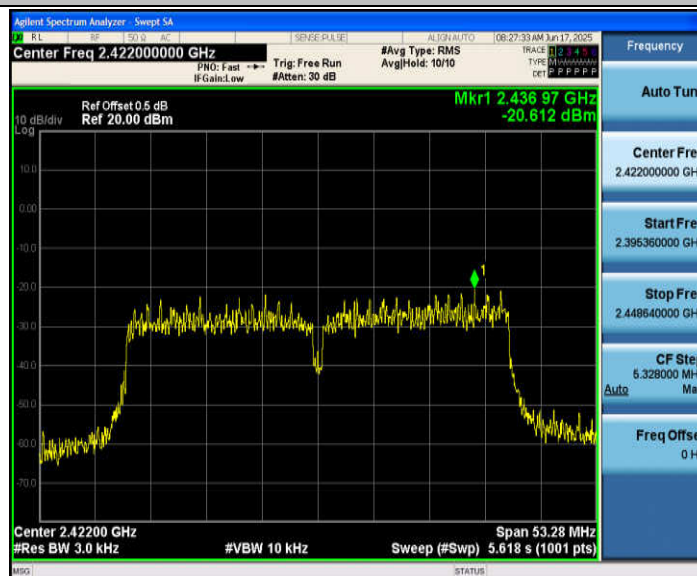
11N20SISO_Ant1_2437



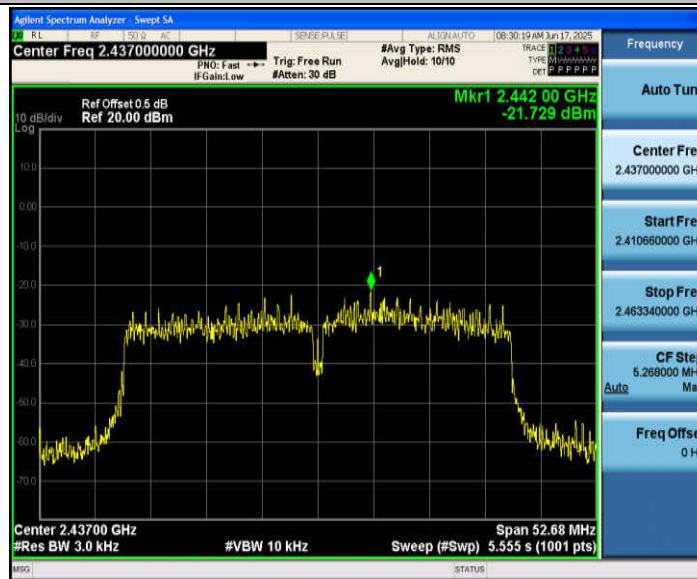
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



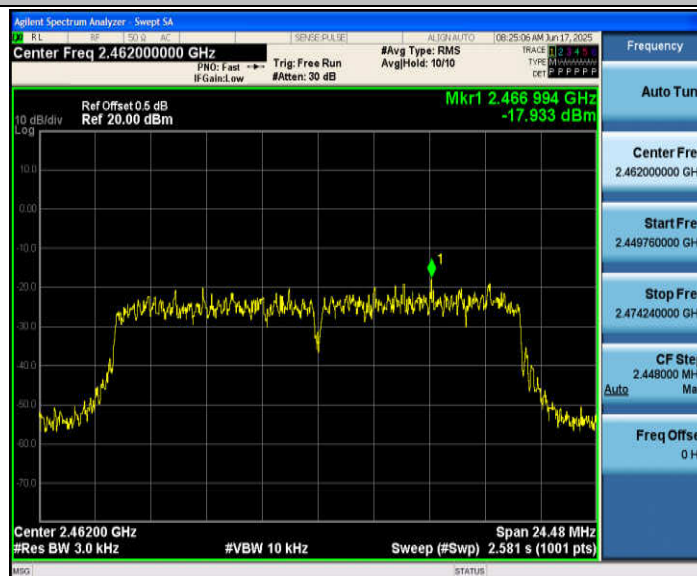
11AX20SISO_Ant1_2412



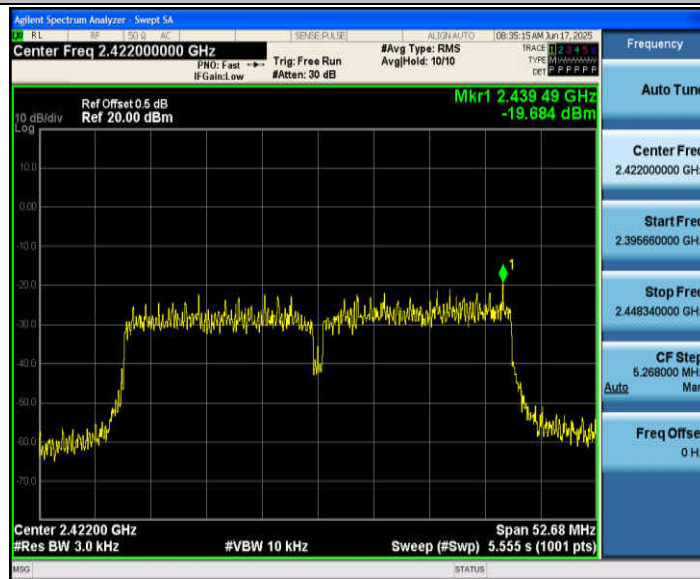
11AX20SISO_Ant1_2437



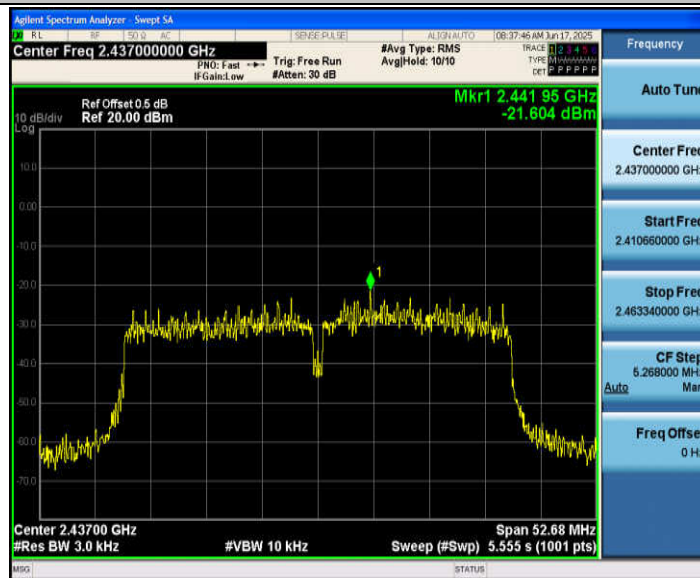
11AX20SISO_Ant1_2462



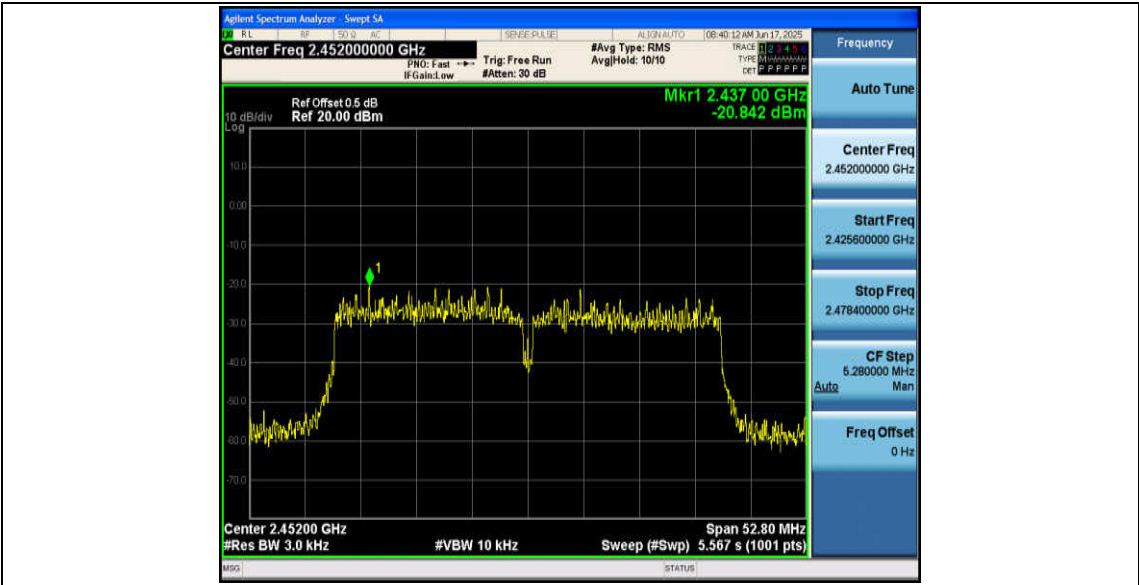
11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437



11AX40SISO_Ant1_2452



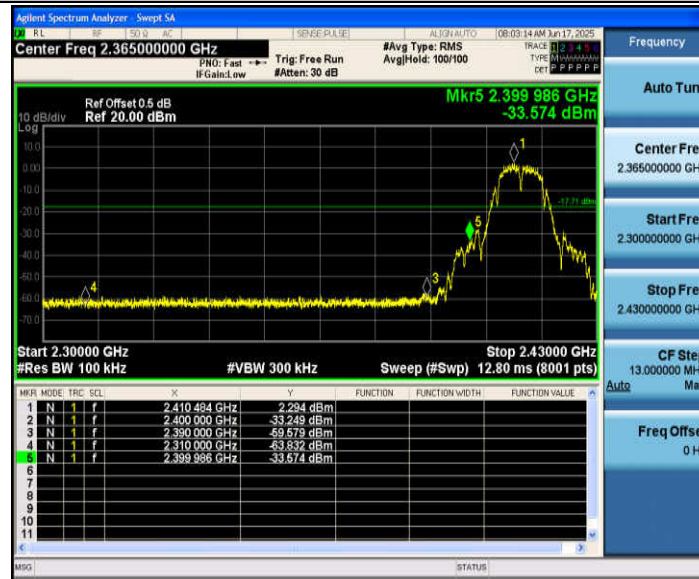
Appendix E: Band edge measurements

Test Result

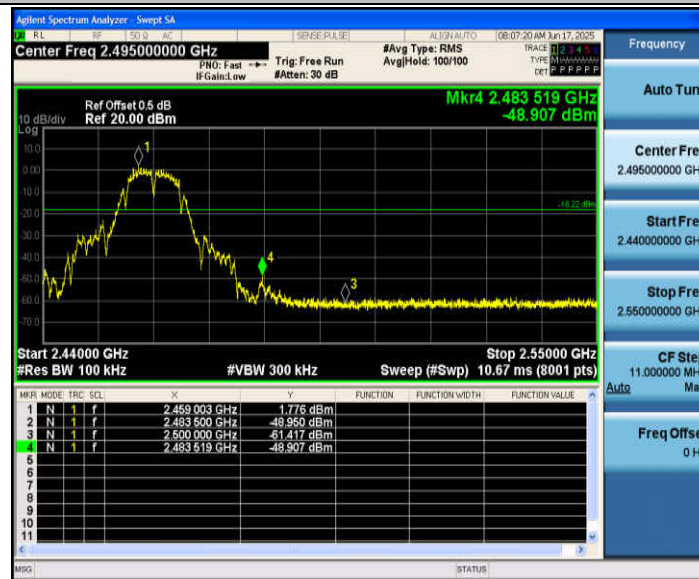
TestMode	Antenna	Channel	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.29	-33.57	≤-17.71	PASS
		High	2462	1.78	-48.91	≤-18.22	PASS
11G	Ant1	Low	2412	-1.84	-35.19	≤-21.84	PASS
		High	2462	-2.66	-38.17	≤-22.66	PASS
11N20SISO	Ant1	Low	2412	-1.47	-34.43	≤-21.47	PASS
		High	2462	-2.47	-37.75	≤-22.47	PASS
11N40SISO	Ant1	Low	2422	-4.64	-36.79	≤-24.64	PASS
		High	2452	-4.73	-35.04	≤-24.73	PASS
11AX20SISO	Ant1	Low	2412	-1.24	-33.49	≤-21.24	PASS
		High	2462	-3.18	-39.58	≤-23.18	PASS
11AX40SISO	Ant1	Low	2422	-4.71	-37.06	≤-24.71	PASS
		High	2452	-4.60	-35.1	≤-24.6	PASS

Test Graphs

11B_Ant1_Low_2412



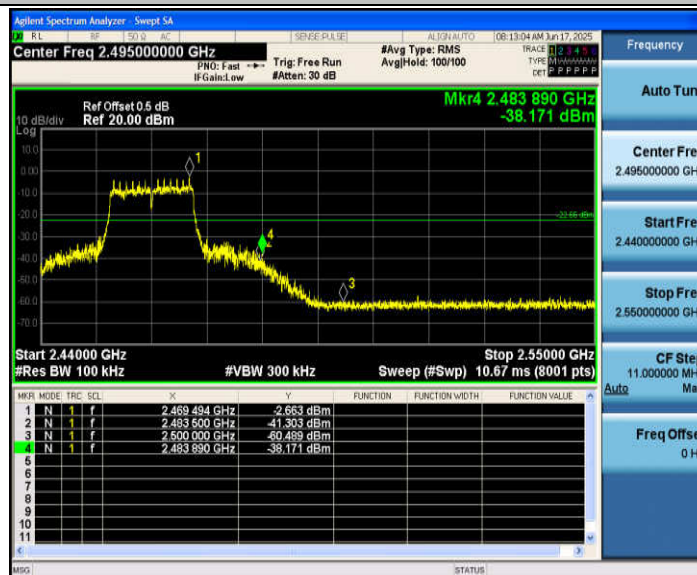
11B_Ant1_High_2462



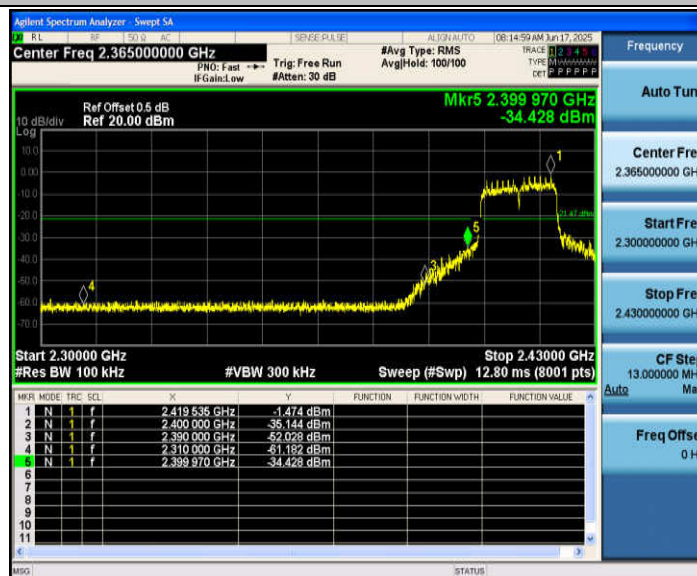
11G_Ant1_Low_2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



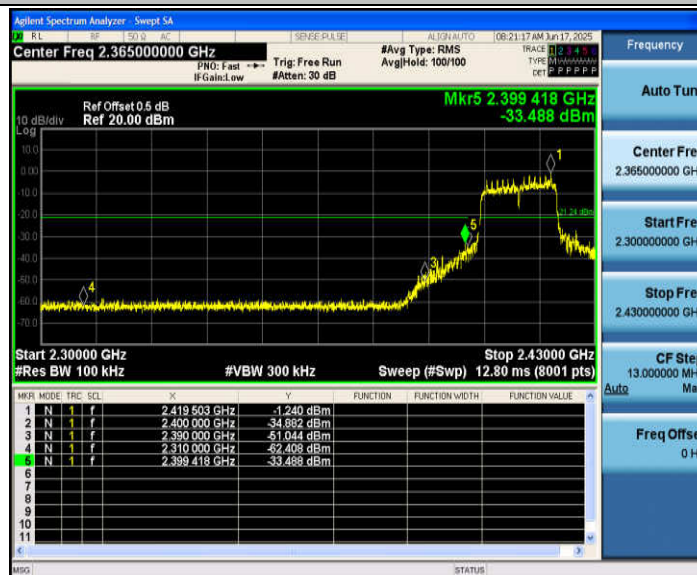
11N40SISO_Ant1_Low_2422



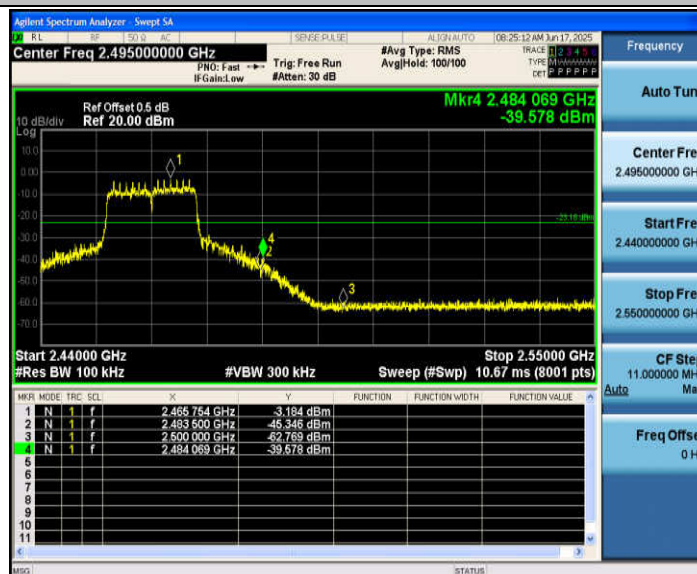
11N40SISO_Ant1_High_2452



11AX20SISO_Ant1_Low_2412



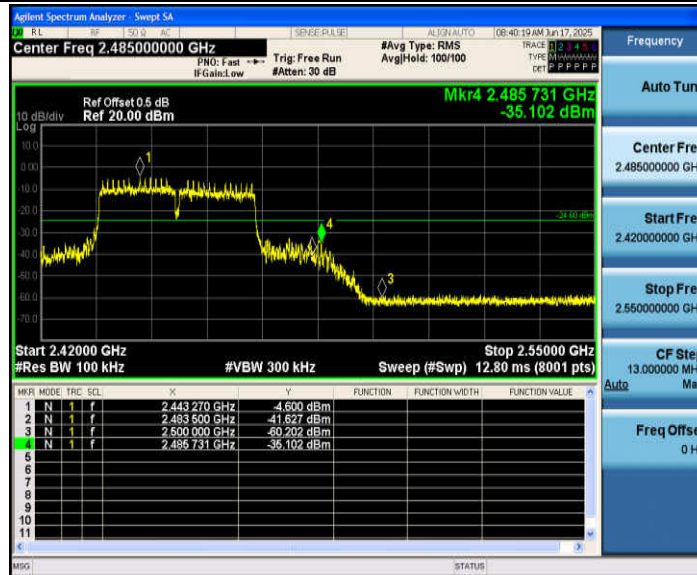
11AX20SISO_Ant1_High_2462



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	3.04	3.04	---	PASS
			30~1000	3.04	-68.26	≤-16.96	PASS
			1000~26500	3.04	-38.65	≤-16.96	PASS
		2437	Reference	1.07	1.07	---	PASS
			30~1000	1.07	-67.81	≤-18.93	PASS
			1000~26500	1.07	-36.76	≤-18.93	PASS
		2462	Reference	1.16	1.16	---	PASS
			30~1000	1.16	-68.02	≤-18.84	PASS
			1000~26500	1.16	-30.96	≤-18.84	PASS
11G	Ant1	2412	Reference	-1.12	-1.12	---	PASS
			30~1000	-1.12	-66.85	≤-21.12	PASS
			1000~26500	-1.12	-49.23	≤-21.12	PASS
		2437	Reference	-3.35	-3.35	---	PASS
			30~1000	-3.35	-68.01	≤-23.35	PASS
			1000~26500	-3.35	-51.86	≤-23.35	PASS
		2462	Reference	-2.59	-2.59	---	PASS
			30~1000	-2.59	-67.71	≤-22.59	PASS
			1000~26500	-2.59	-42.3	≤-22.59	PASS
11N20SISO	Ant1	2412	Reference	-2.00	-2.00	---	PASS
			30~1000	-2.00	-68.21	≤-22	PASS
			1000~26500	-2.00	-49.85	≤-22	PASS
		2437	Reference	-4.56	-4.56	---	PASS
			30~1000	-4.56	-67.88	≤-24.56	PASS
			1000~26500	-4.56	-53.41	≤-24.56	PASS
		2462	Reference	-3.39	-3.39	---	PASS
			30~1000	-3.39	-68.39	≤-23.39	PASS
			1000~26500	-3.39	-42.72	≤-23.39	PASS
11N40SISO	Ant1	2422	Reference	-5.36	-5.36	---	PASS
			30~1000	-5.36	-67.92	≤-25.36	PASS
			1000~26500	-5.36	-50.54	≤-25.36	PASS
		2437	Reference	-6.25	-6.25	---	PASS
			30~1000	-6.25	-67.37	≤-26.25	PASS
			1000~26500	-6.25	-52.26	≤-26.25	PASS
		2452	Reference	-5.53	-5.53	---	PASS
			30~1000	-5.53	-67.9	≤-25.53	PASS
			1000~26500	-5.53	-50.27	≤-25.53	PASS
11AX20SISO	Ant1	2412	Reference	-1.93	-1.93	---	PASS

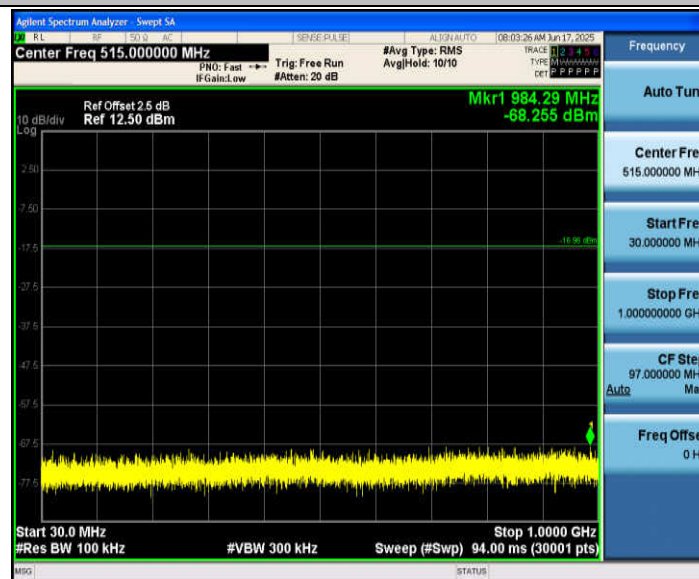
			30~1000	-1.93	-67.85	≤-21.93	PASS
			1000~26500	-1.93	-49.36	≤-21.93	PASS
		2437	Reference	-3.10	-3.10	---	PASS
			30~1000	-3.10	-68.27	≤-23.1	PASS
			1000~26500	-3.10	-54.06	≤-23.1	PASS
		2462	Reference	-2.53	-2.53	---	PASS
			30~1000	-2.53	-67.23	≤-22.53	PASS
			1000~26500	-2.53	-44.44	≤-22.53	PASS
11AX40SISO	Ant1	2422	Reference	-4.95	-4.95	---	PASS
			30~1000	-4.95	-67.81	≤-24.95	PASS
			1000~26500	-4.95	-49.38	≤-24.95	PASS
		2437	Reference	-6.40	-6.40	---	PASS
			30~1000	-6.40	-65.1	≤-26.4	PASS
			1000~26500	-6.40	-52.25	≤-26.4	PASS
		2452	Reference	-5.02	-5.02	---	PASS
			30~1000	-5.02	-67.85	≤-25.02	PASS
			1000~26500	-5.02	-49.32	≤-25.02	PASS

Test Graphs

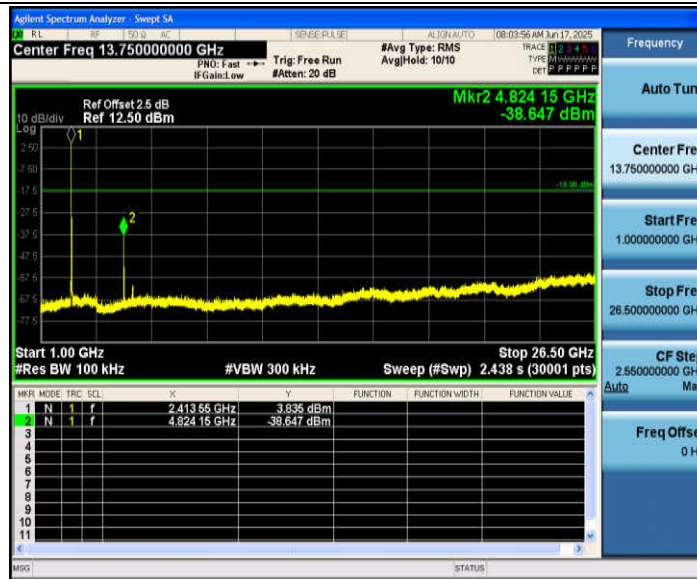
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



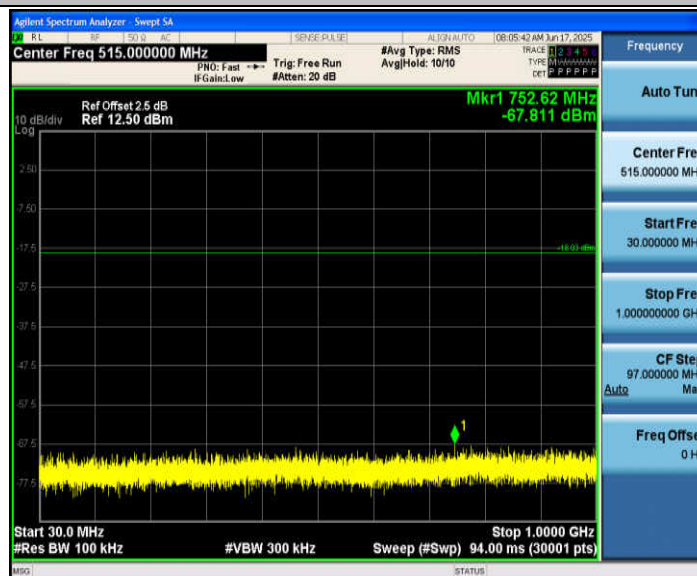
11B_Ant1_2412_1000~26500



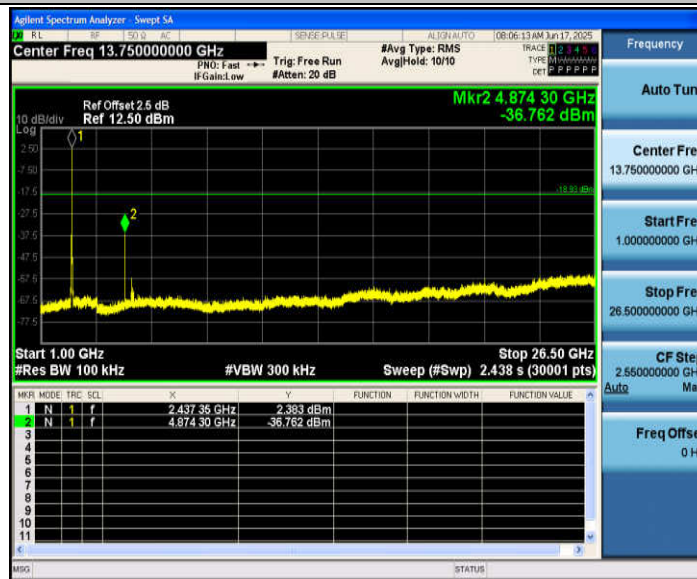
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



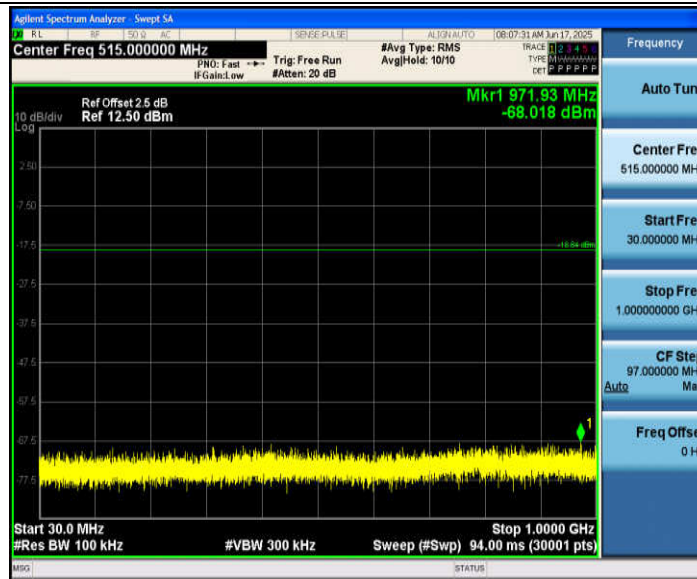
11B_Ant1_2437_1000~26500



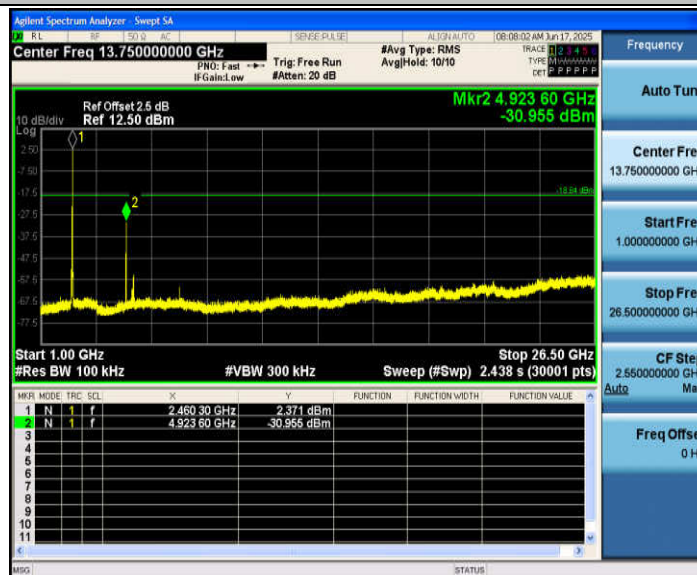
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



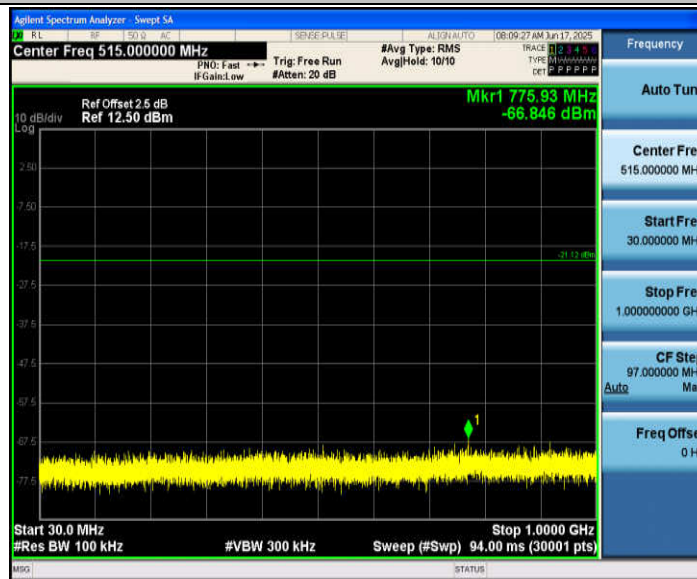
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference