

FCC Appendix RF Test Data

FCC ID : 2BQAA-R03

Company: : Shenzhen Hongzun Aviation Technology Co., Ltd.

EUT : quadcopter

Model Number : R03

Report No. : CTA25042201601

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	9.520	2407.000	2416.520	0.5	PASS
		2437	9.560	2432.000	2441.560	0.5	PASS
		2462	10.000	2457.040	2467.040	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	16.320	2453.880	2470.200	0.5	PASS
11N20SISO	Ant1	2412	16.720	2404.040	2420.760	0.5	PASS
		2437	15.800	2429.440	2445.240	0.5	PASS
		2462	16.600	2454.040	2470.640	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



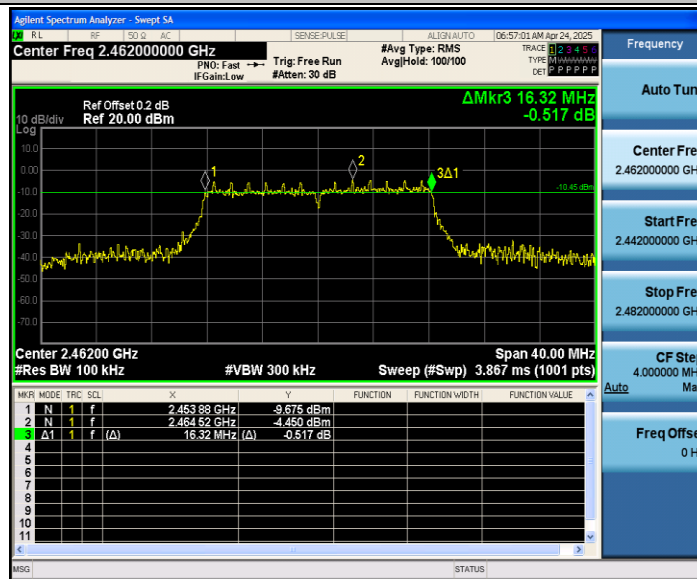
11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.372	2405.7626	2418.1346	---	---
		2437	11.673	2430.9923	2442.6653	---	---
		2462	12.758	2455.4155	2468.1735	---	---
11G	Ant1	2412	16.786	2403.7855	2420.5715	---	---
		2437	16.609	2428.8483	2445.4573	---	---
		2462	16.946	2453.6284	2470.5744	---	---
11N20SISO	Ant1	2412	17.839	2403.3144	2421.1534	---	---
		2437	17.601	2428.3656	2445.9666	---	---
		2462	18.018	2453.1173	2471.1353	---	---

Test Graphs

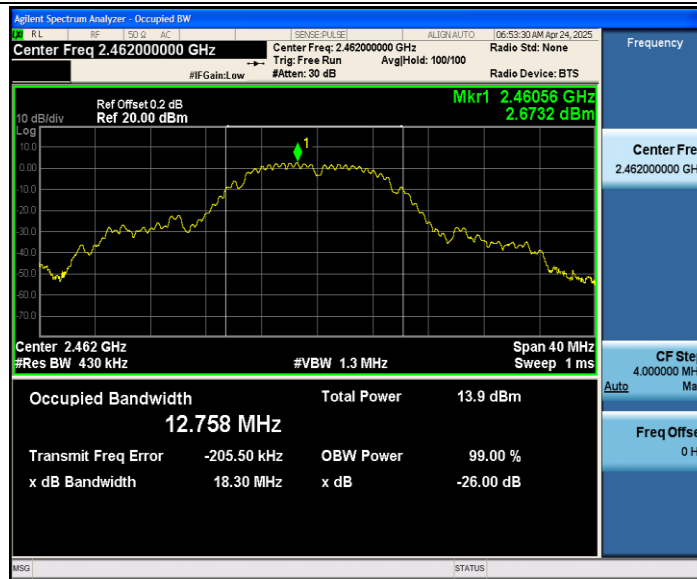
11B_Ant1_2412



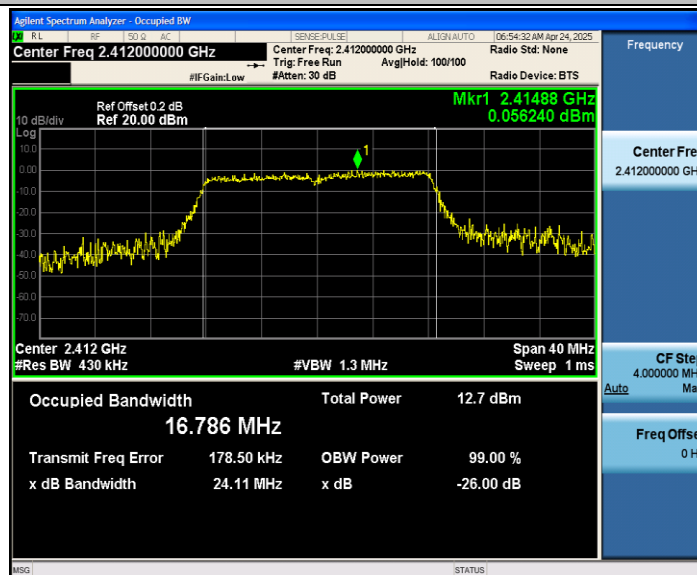
11B_Ant1_2437



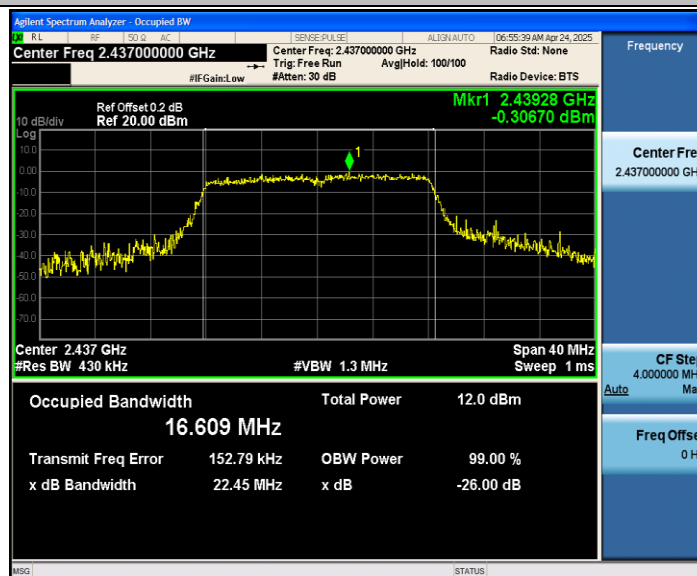
11B_Ant1_2462



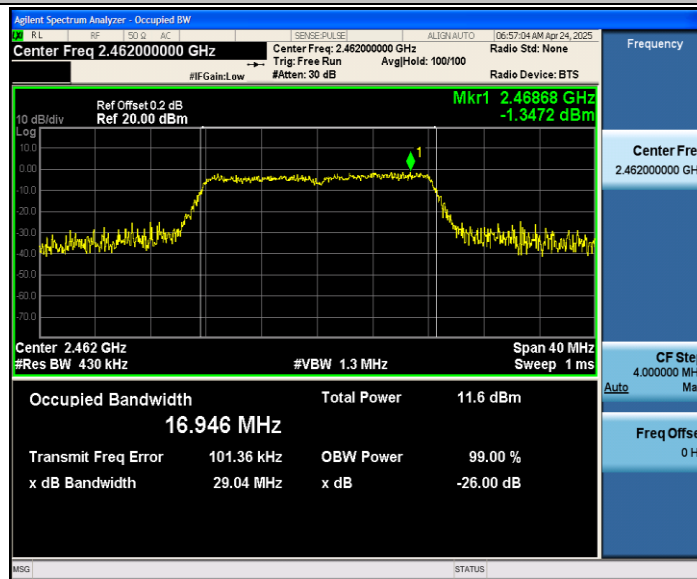
11G_Ant1_2412



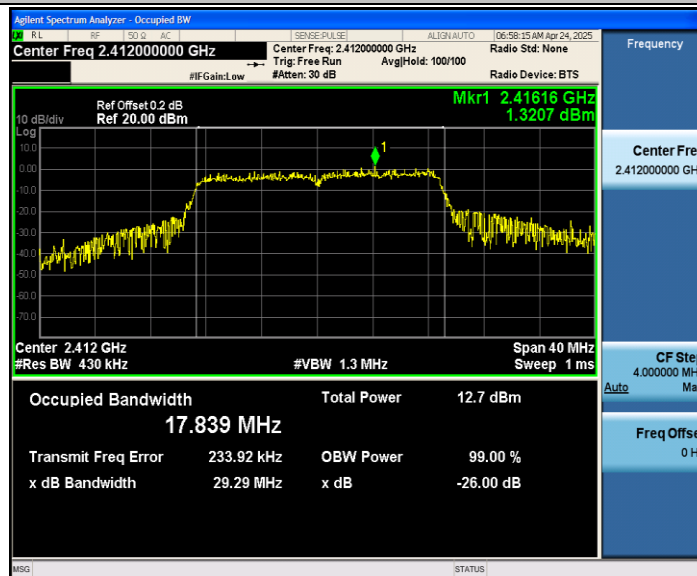
11G_Ant1_2437



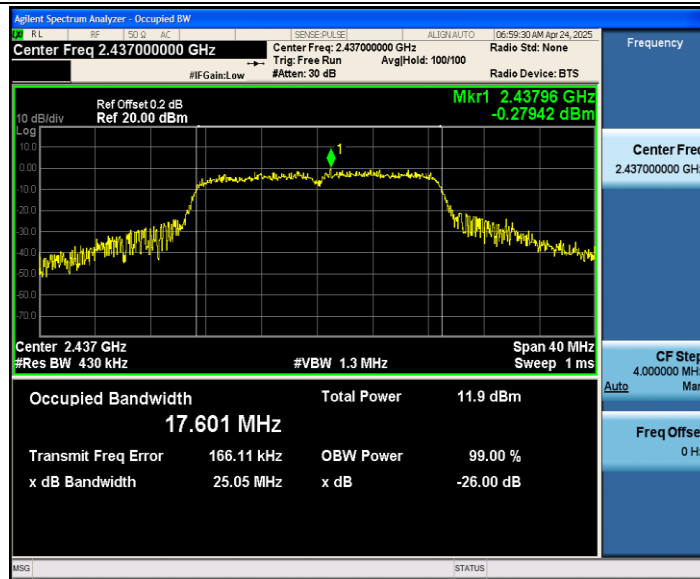
11G_Ant1_2462



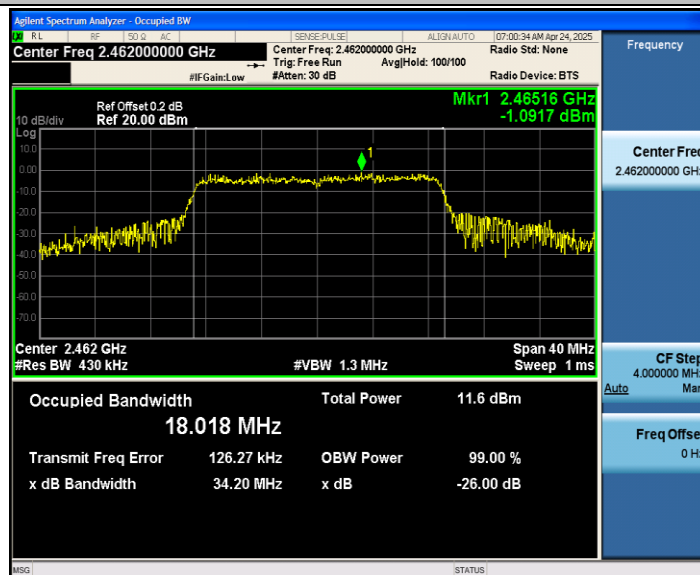
11N20SISO_Ant1_2412



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	14.52	≤30.00	PASS
		2437	13.54	≤30.00	PASS
		2462	13.84	≤30.00	PASS
11G	Ant1	2412	13.22	≤30.00	PASS
		2437	12.63	≤30.00	PASS
		2462	12.31	≤30.00	PASS
11N20SISO	Ant1	2412	13.36	≤30.00	PASS
		2437	12.42	≤30.00	PASS
		2462	12.14	≤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	-11.69	≤8.00	PASS
		2437	-11.97	≤8.00	PASS
		2462	-12.11	≤8.00	PASS
11G	Ant1	2412	-18.11	≤8.00	PASS
		2437	-19.86	≤8.00	PASS
		2462	-18.93	≤8.00	PASS
11N20SISO	Ant1	2412	-18.77	≤8.00	PASS
		2437	-19.42	≤8.00	PASS
		2462	-19.79	≤8.00	PASS

Test Graphs

11B_Ant1_2412



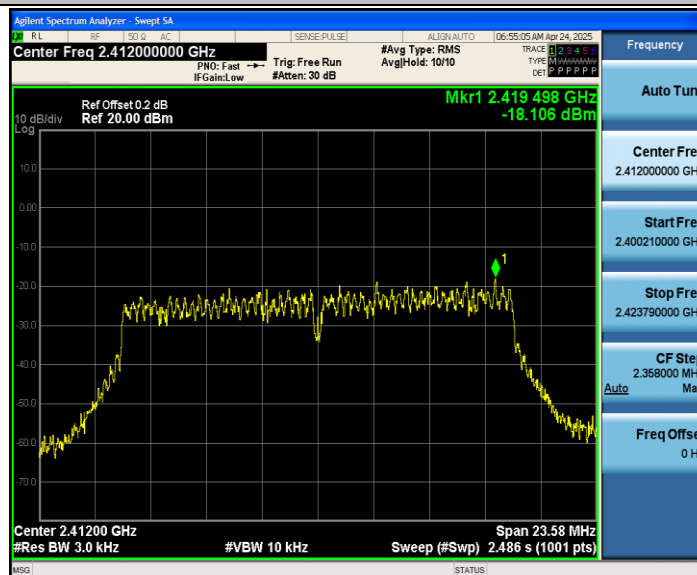
11B_Ant1_2437



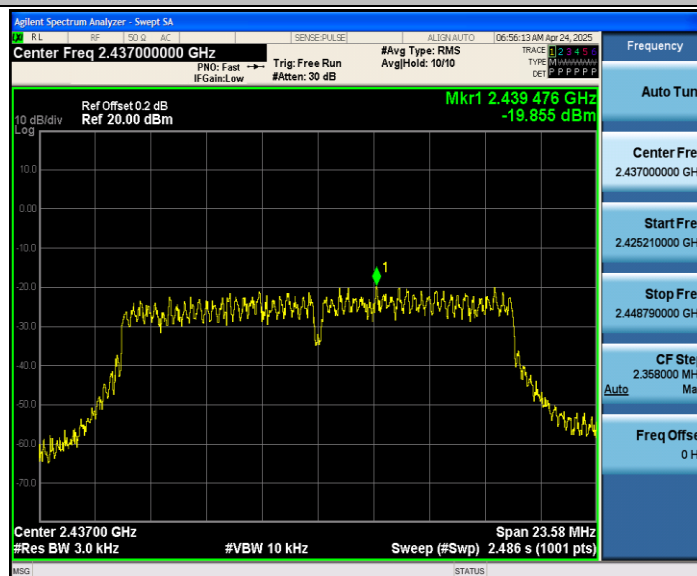
11B_Ant1_2462



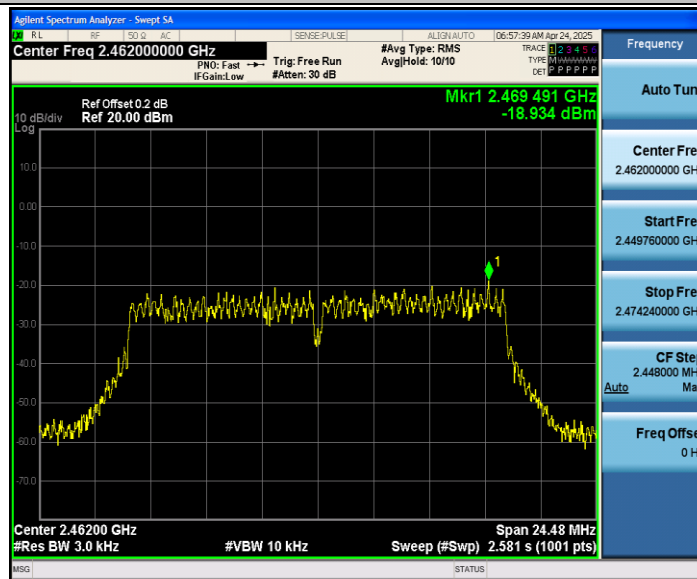
11G_Ant1_2412



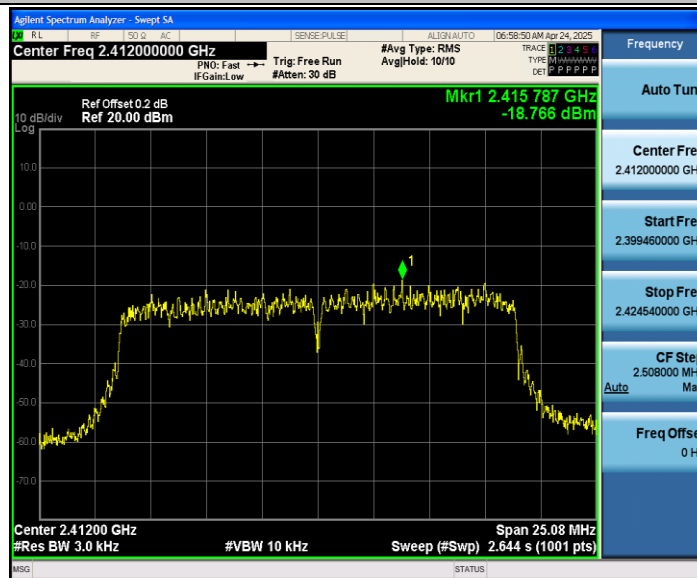
11G_Ant1_2437



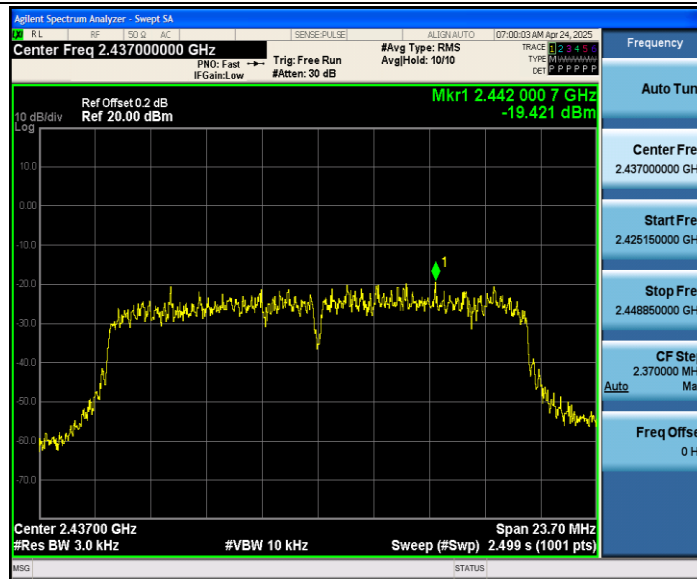
11G_Ant1_2462



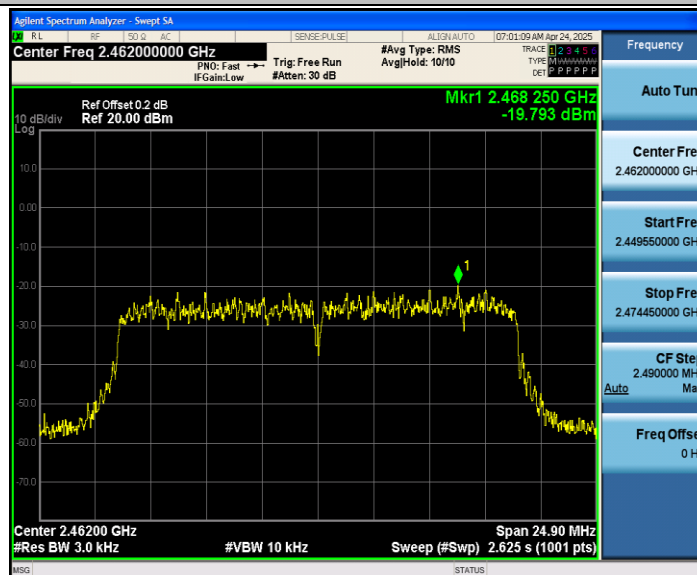
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



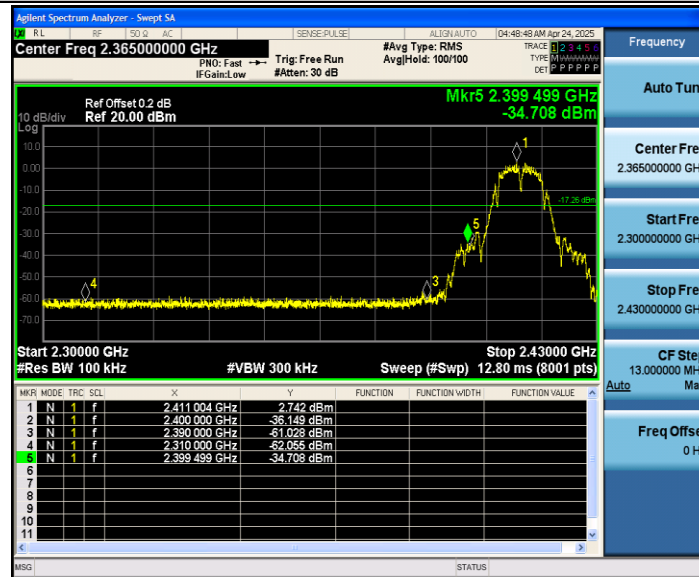
Appendix E: Band edge measurements

Test Result

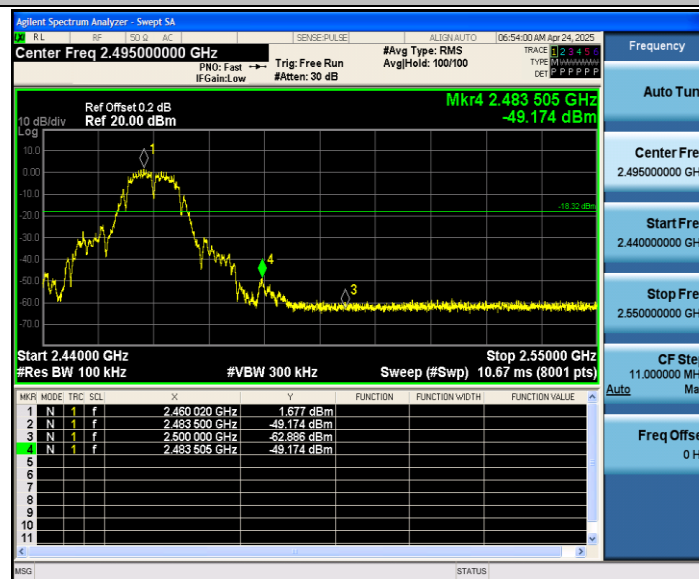
TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.74	-34.71	≤-17.26	PASS
		High	2462	1.68	-49.17	≤-18.32	PASS
11G	Ant1	Low	2412	-2.42	-36.83	≤-22.42	PASS
		High	2462	-3.71	-39.8	≤-23.71	PASS
11N20SISO	Ant1	Low	2412	-3.05	-36.63	≤-23.05	PASS
		High	2462	-3.92	-39.59	≤-23.92	PASS

Test Graphs

11B_Ant1_Low_2412



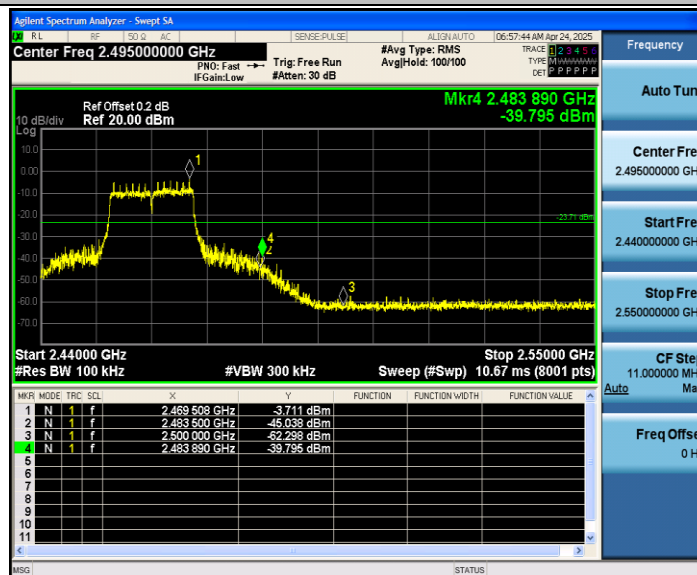
11B_Ant1_High_2462



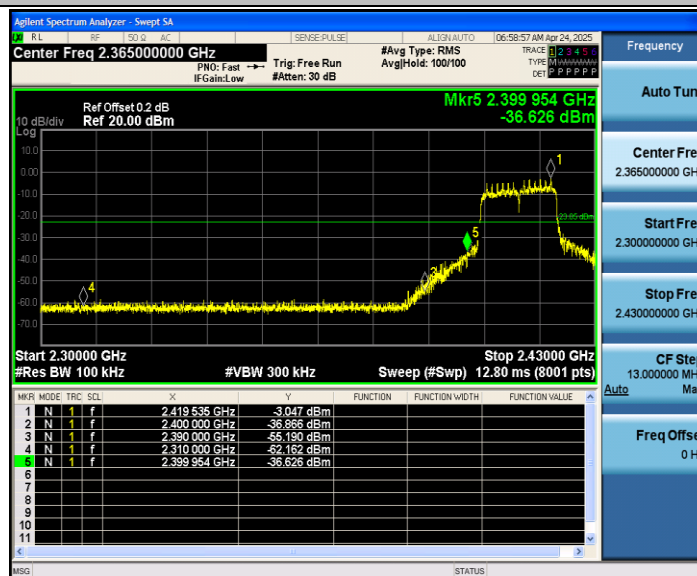
11G_Ant1_Low_2412



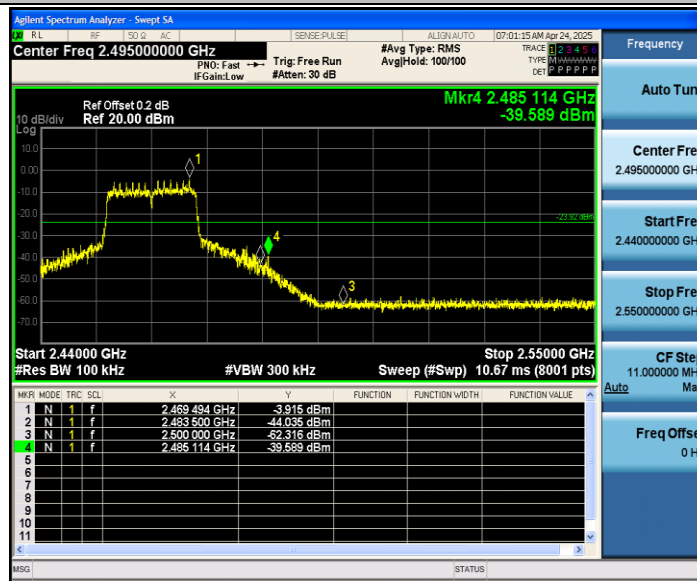
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



Appendix F: Conducted Spurious Emission

Test Result

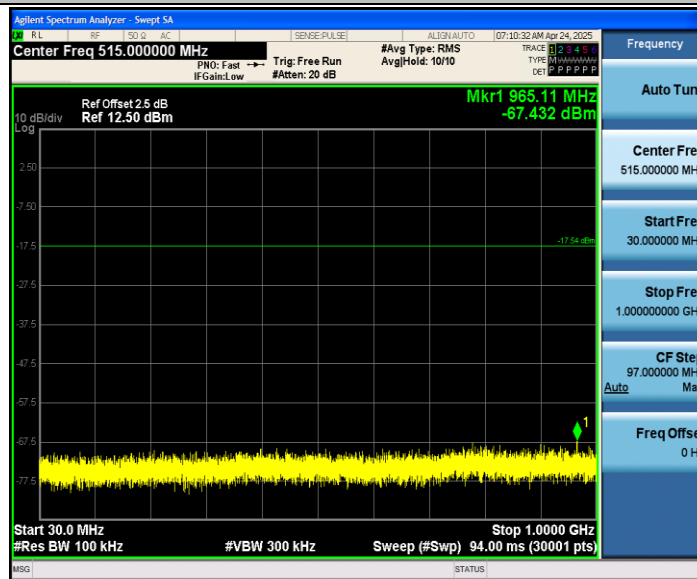
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.46	2.46	---	PASS
			30~1000	2.46	-67.43	≤-17.54	PASS
			1000~26500	2.46	-38.36	≤-17.54	PASS
		2437	Reference	2.49	2.49	---	PASS
			30~1000	2.49	-67.03	≤-17.51	PASS
			1000~26500	2.49	-37.21	≤-17.51	PASS
		2462	Reference	3.07	3.07	---	PASS
			30~1000	3.07	-66.94	≤-16.93	PASS
			1000~26500	3.07	-30.95	≤-16.93	PASS
11G	Ant1	2412	Reference	-1.15	-1.15	---	PASS
			30~1000	-1.15	-66.8	≤-21.15	PASS
			1000~26500	-1.15	-50.65	≤-21.15	PASS
		2437	Reference	-1.78	-1.78	---	PASS
			30~1000	-1.78	-67.63	≤-21.78	PASS
			1000~26500	-1.78	-51.28	≤-21.78	PASS
		2462	Reference	-2.31	-2.31	---	PASS
			30~1000	-2.31	-67.64	≤-22.31	PASS
			1000~26500	-2.31	-45.8	≤-22.31	PASS
11N20SISO	Ant1	2412	Reference	-0.21	-0.21	---	PASS
			30~1000	-0.21	-67.96	≤-20.21	PASS
			1000~26500	-0.21	-47.19	≤-20.21	PASS
		2437	Reference	-3.41	-3.41	---	PASS
			30~1000	-3.41	-68.39	≤-23.41	PASS
			1000~26500	-3.41	-49.4	≤-23.41	PASS
		2462	Reference	-2.15	-2.15	---	PASS
			30~1000	-2.15	-67.23	≤-22.15	PASS
			1000~26500	-2.15	-44.13	≤-22.15	PASS

Test Graphs

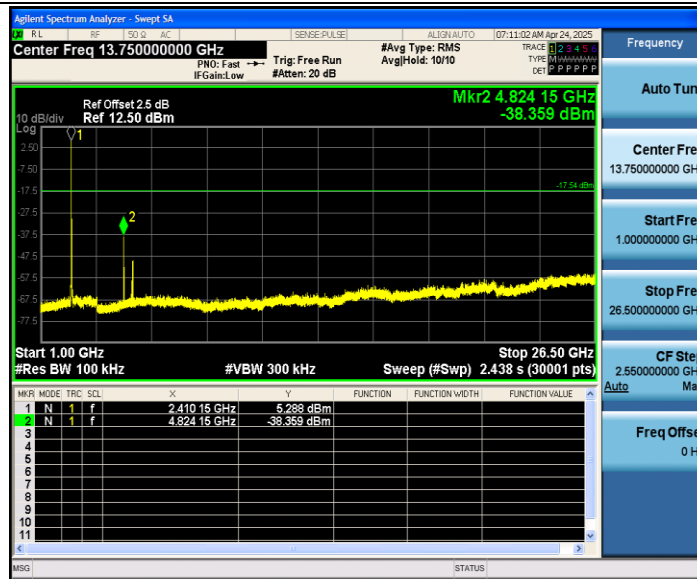
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



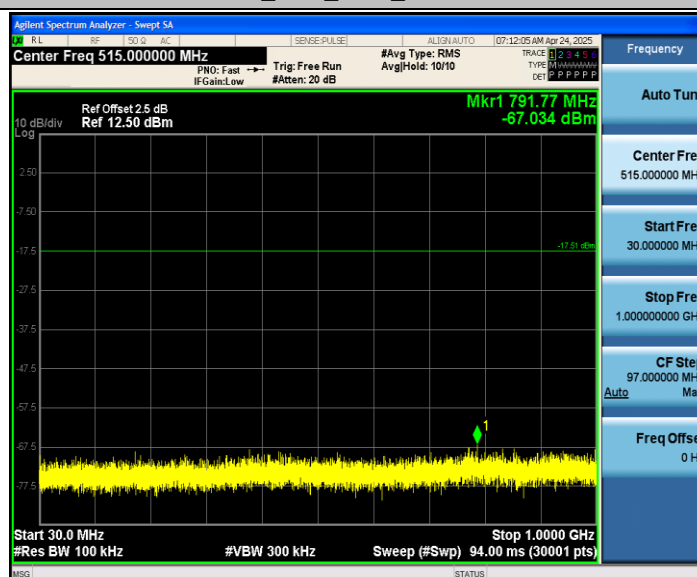
11B_Ant1_2412_1000~26500



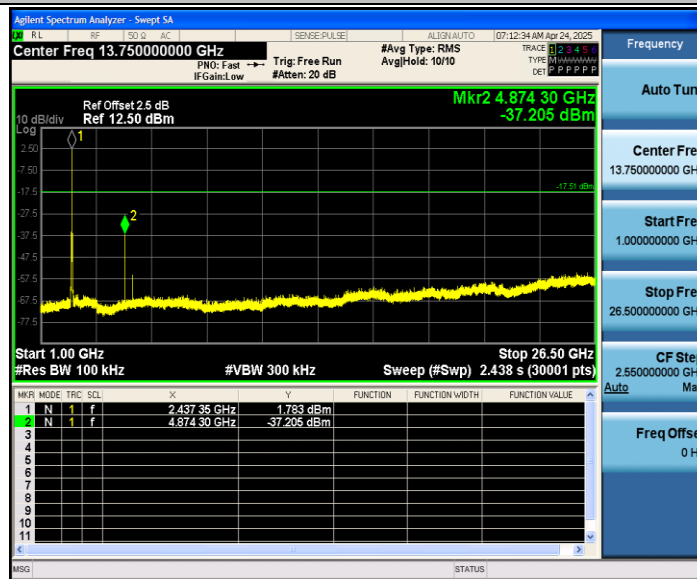
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



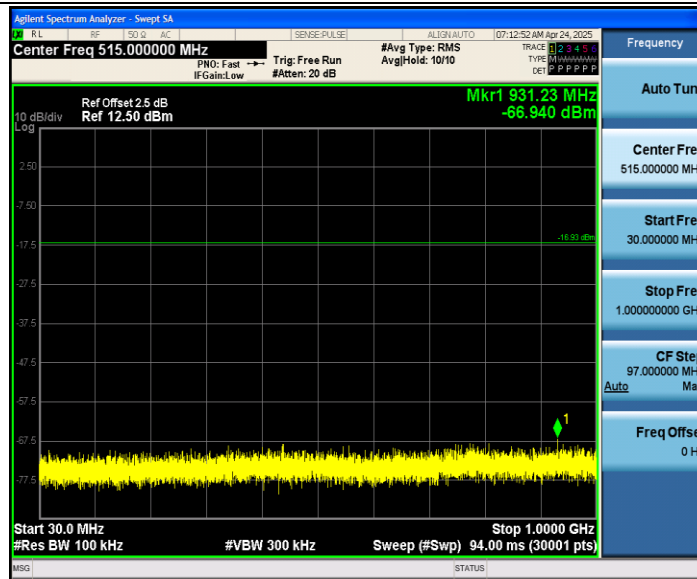
11B_Ant1_2437_1000~26500



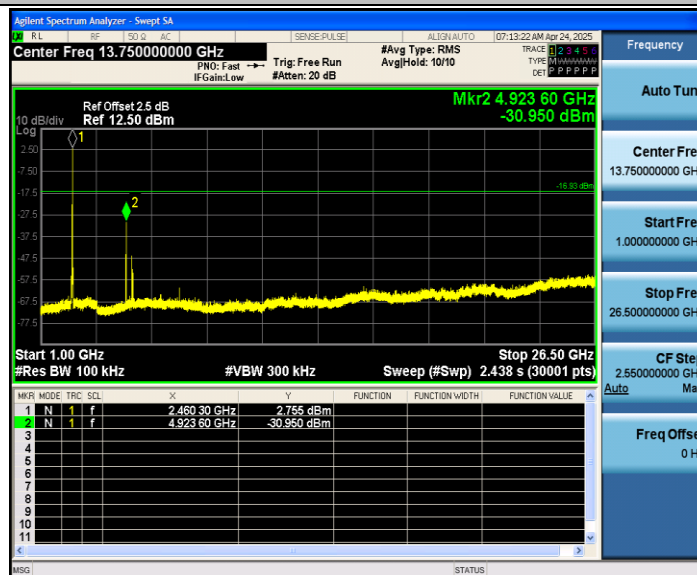
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



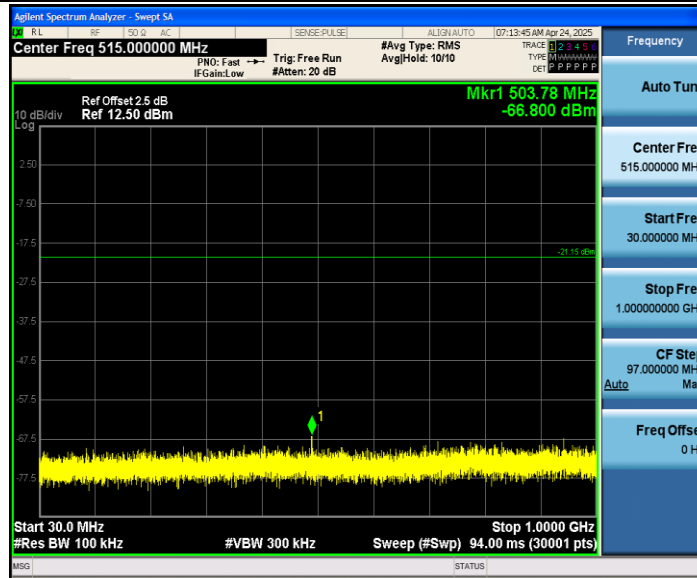
11B_Ant1_2462_1000~26500



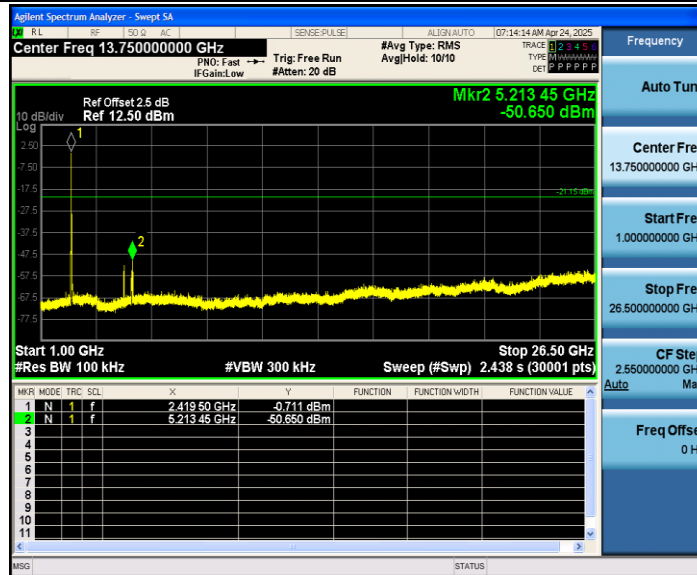
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



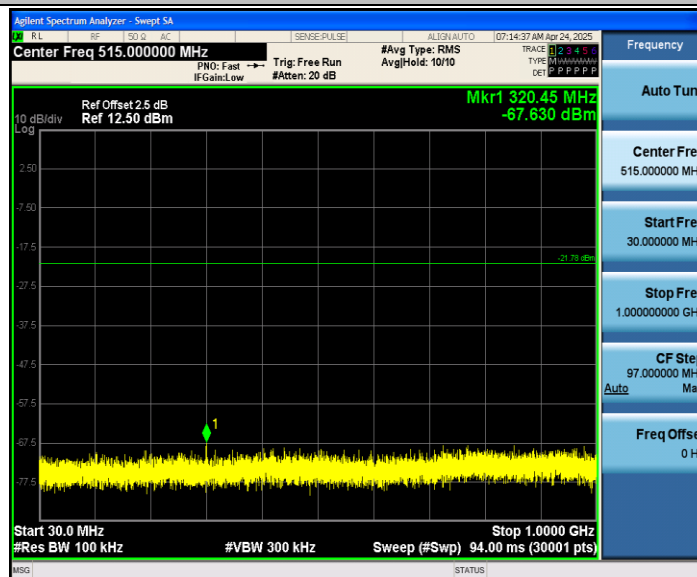
11G_Ant1_2412_1000~26500



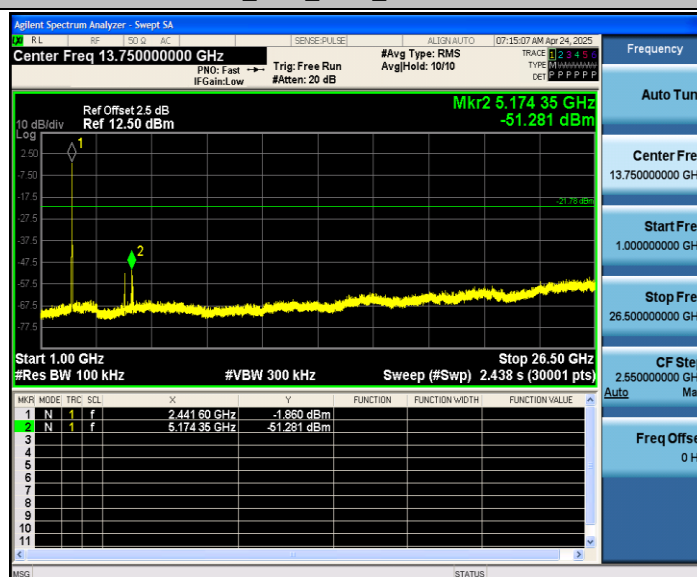
11G_Ant1_2437_0~Reference



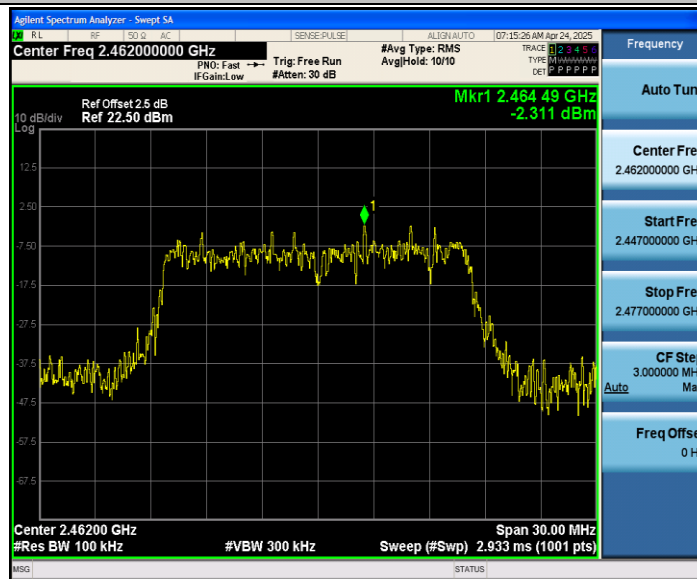
11G_Ant1_2437_30~1000



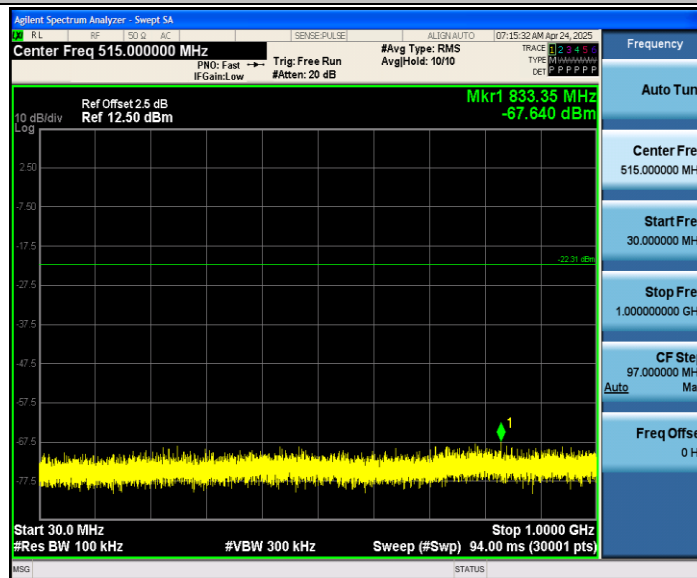
11G_Ant1_2437_1000~26500



11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500