

FCC Appendix RF Test Data for 2.4GWIFI

FCC ID : 2BTZJ-AISCANO1

Company : Zhejiang CXL Technology Co., Ltd.

EUT : 3D Scanner

Model Number : AiScan O1

Report No. : CTA26040802802

Reviewed By : Eric Wang

FCC Appendix RF Test Data for 2.4GWIFI Ant 1

Appendix A: DTS Bandwidth

Test Result

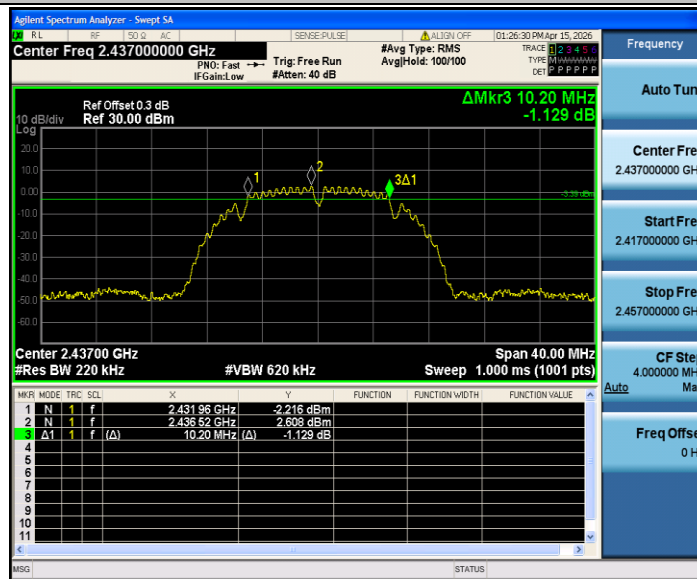
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.200	2406.920	2417.120	0.5	PASS
		2437	10.200	2431.960	2442.160	0.5	PASS
		2462	10.200	2456.920	2467.120	0.5	PASS
11G	Ant1	2412	15.440	2404.440	2419.880	0.5	PASS
		2437	15.840	2428.920	2444.760	0.5	PASS
		2462	15.400	2454.440	2469.840	0.5	PASS
11N20SISO	Ant1	2412	16.040	2404.000	2420.040	0.5	PASS
		2437	17.080	2428.560	2445.640	0.5	PASS
		2462	16.760	2453.440	2470.200	0.5	PASS
11N40SISO	Ant1	2422	34.880	2404.480	2439.360	0.5	PASS
		2437	34.800	2419.960	2454.760	0.5	PASS
		2452	35.360	2434.400	2469.760	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



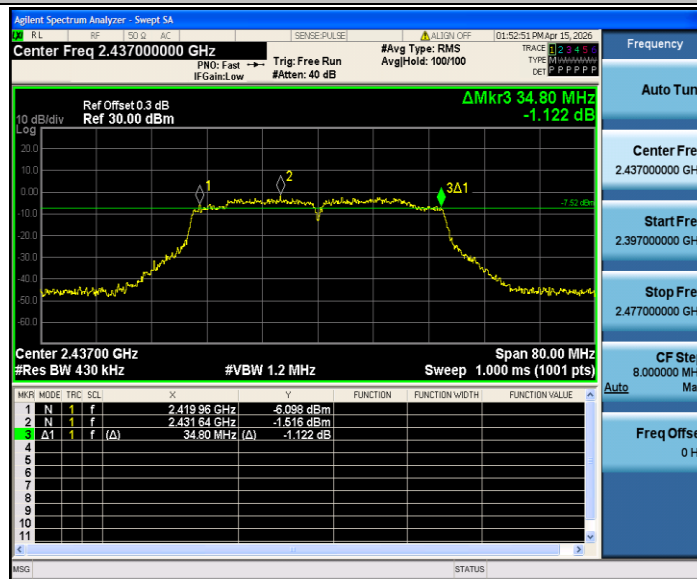
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



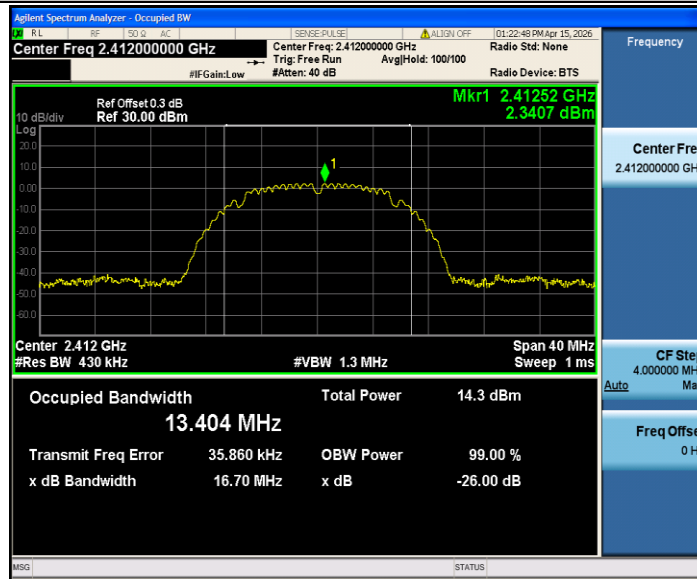
Appendix B: Occupied Channel Bandwidth

Test Result

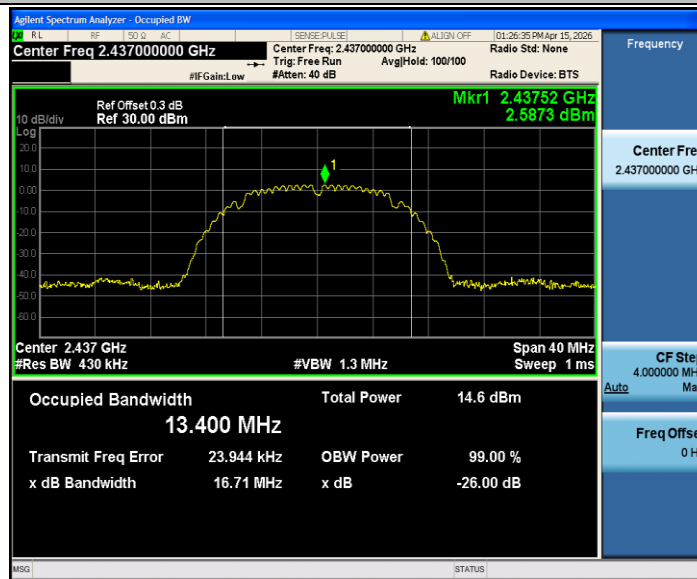
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.404	2405.3339	2418.7379	---	---
		2437	13.400	2430.3239	2443.7239	---	---
		2462	13.411	2455.3037	2468.7147	---	---
11G	Ant1	2412	16.836	2403.6672	2420.5032	---	---
		2437	16.783	2428.6545	2445.4375	---	---
		2462	16.800	2453.6179	2470.4179	---	---
11N20SISO	Ant1	2412	17.916	2403.0766	2420.9926	---	---
		2437	17.897	2428.1021	2445.9991	---	---
		2462	17.866	2453.0894	2470.9554	---	---
11N40SISO	Ant1	2422	36.015	2404.0619	2440.0769	---	---
		2437	36.011	2419.0817	2455.0927	---	---
		2452	36.055	2434.0572	2470.1122	---	---

Test Graphs

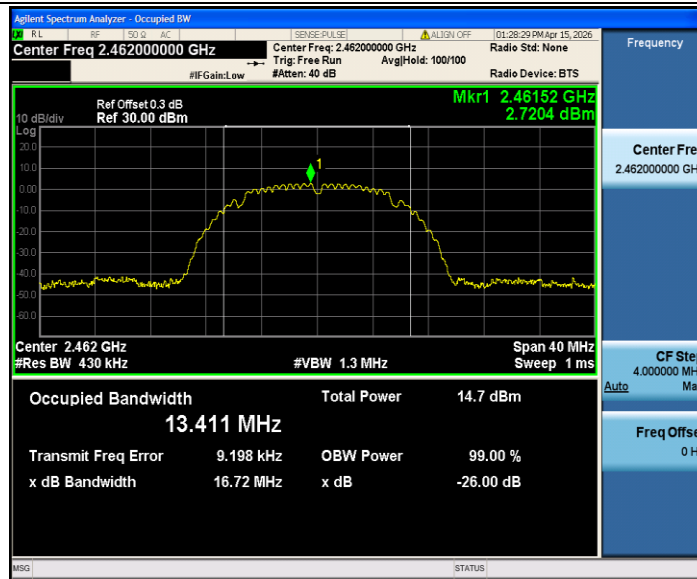
11B_Ant1_2412



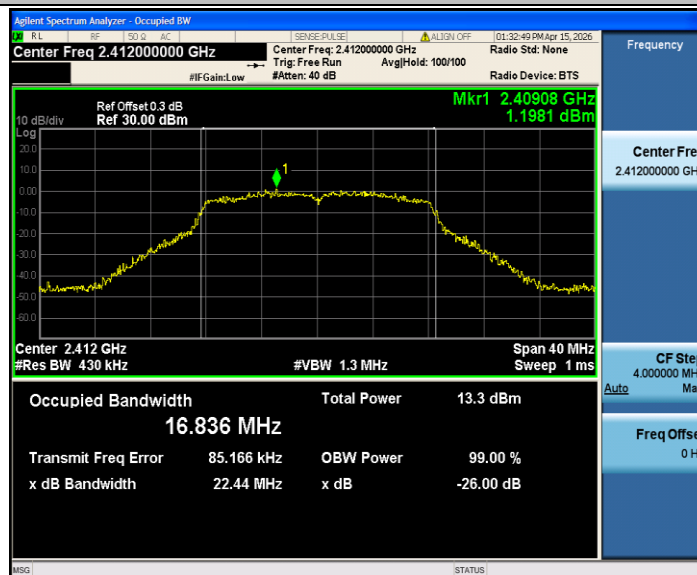
11B_Ant1_2437



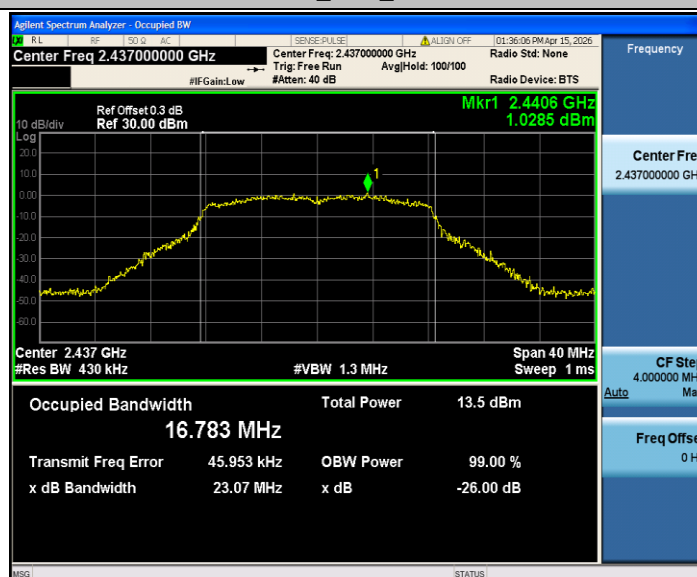
11B_Ant1_2462



11G_Ant1_2412



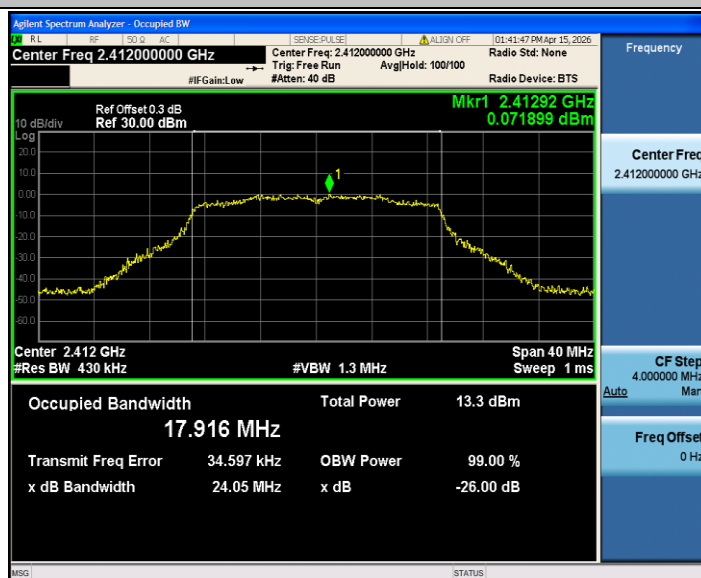
11G_Ant1_2437



11G_Ant1_2462



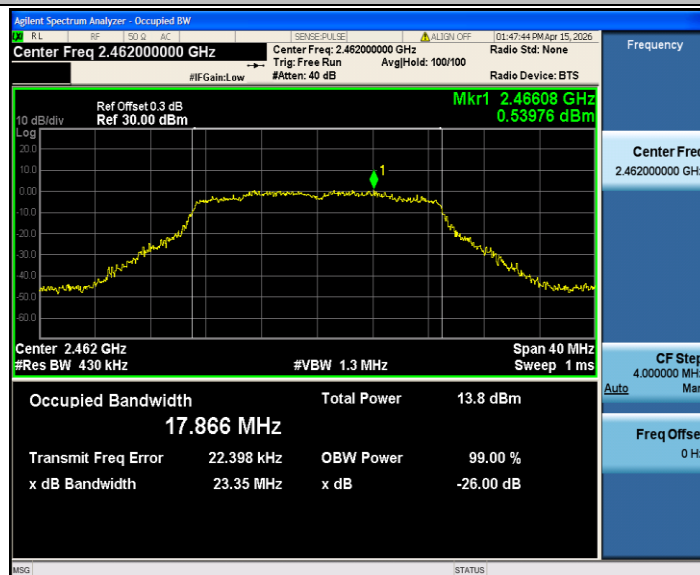
11N20SISO_Ant1_2412



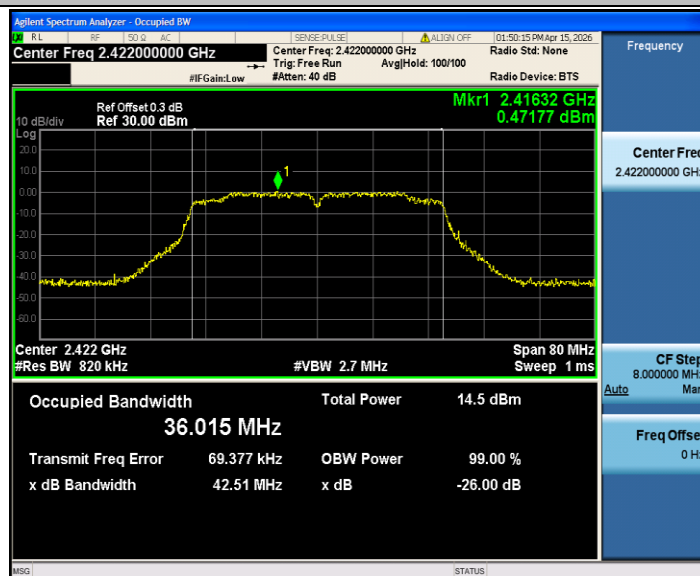
11N20SISO_Ant1_2437



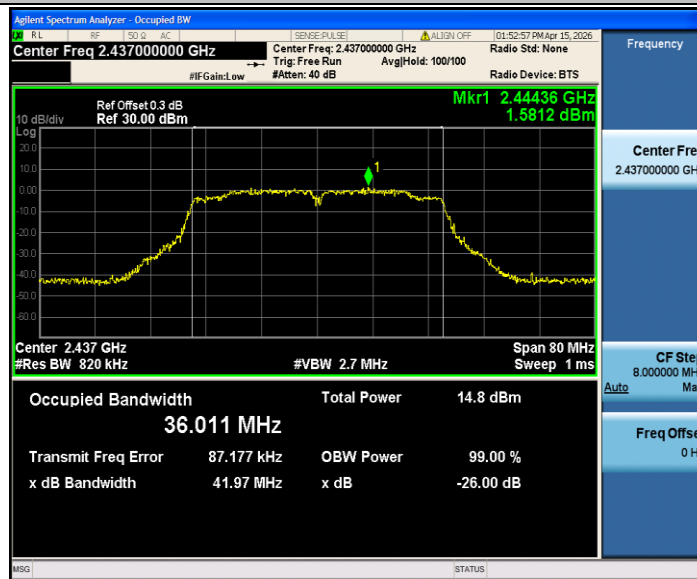
11N20SISO_Ant1_2462



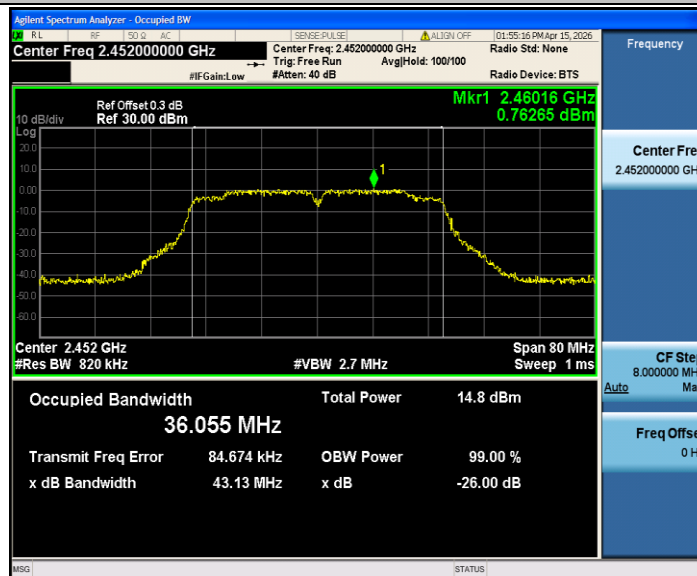
11N40SISO_Ant1_2422



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	15.32	≤30.00	PASS
		2437	15.25	≤30.00	PASS
		2462	15.34	≤30.00	PASS
11G	Ant1	2412	14.3	≤30.00	PASS
		2437	14.57	≤30.00	PASS
		2462	14.61	≤30.00	PASS
11N20SISO	Ant1	2412	14.16	≤30.00	PASS
		2437	14.51	≤30.00	PASS
		2462	14.64	≤30.00	PASS
11N40SISO	Ant1	2422	14.63	≤30.00	PASS
		2437	14.94	≤30.00	PASS
		2452	14.85	≤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	-12.11	≤8.00	PASS
		2437	-12.47	≤8.00	PASS
		2462	-10.80	≤8.00	PASS
11G	Ant1	2412	-17.21	≤8.00	PASS
		2437	-16.99	≤8.00	PASS
		2462	-16.77	≤8.00	PASS
11N20SISO	Ant1	2412	-16.96	≤8.00	PASS
		2437	-15.29	≤8.00	PASS
		2462	-17.23	≤8.00	PASS
11N40SISO	Ant1	2422	-20.42	≤8.00	PASS
		2437	-19.24	≤8.00	PASS
		2452	-19.44	≤8.00	PASS