

ANNEX WIFI TEST DATA

FCC ID:2A4V7-Q5

Applicant: Shenzhen Aiboyou Technology Co., Ltd

Address: 3rd Floor, North Gate, Building B Taiyufeng Industrial Park, Dalang Yunfeng Road, Longhua city,China

Manufacturer: Shenzhen Aiboyou Technology Co., Ltd

Address: 3rd Floor, North Gate, Building B Taiyufeng Industrial Park, Dalang Yunfeng Road, Longhua city,China

EUT: Projector

Trade Mark: N/A

Model Number: Q5, A95X W2, A95X W3, A95X W5, A95X W6, A95X W7, A95X W8, A95X W9 , A95X W10, A95X W1

Date of Receipt: Dec. 10, 2024

Test Date: Dec. 10, 2024 - Dec. 27, 2024

Date of Report: Dec. 27, 2024

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

Applicable Standards: FCC PART 15 C 15.247
ANSI C63.10:2013

Test Result: Pass

DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.040	2407.000	2417.040	0.5	PASS
		2437	9.000	2433.000	2442.000	0.5	PASS
		2462	9.000	2458.000	2467.000	0.5	PASS
11G	Ant1	2412	15.720	2403.880	2419.600	0.5	PASS
		2437	15.720	2429.440	2445.160	0.5	PASS
		2462	15.720	2453.840	2469.560	0.5	PASS
11N20SISO	Ant1	2412	16.400	2403.800	2420.200	0.5	PASS
		2437	16.080	2429.440	2445.520	0.5	PASS
		2462	15.840	2453.720	2469.560	0.5	PASS
11N40SISO	Ant1	2422	35.760	2404.400	2440.160	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	30.080	2434.480	2464.560	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



Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Set Power	Peak Power[dBm]	Conducted Limit[dBm]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
TestMode	Antenna	Channel	SetPower	Result	Limit	EIRP	Limit1	Verdict

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	5.874	30	Pass
NVNT	b	2437	Ant1	6.153	30	Pass
NVNT	b	2462	Ant1	6.302	30	Pass
NVNT	g	2412	Ant1	6.918	30	Pass
NVNT	g	2437	Ant1	7.347	30	Pass
NVNT	g	2462	Ant1	7.364	30	Pass
NVNT	n20	2412	Ant1	6.991	30	Pass
NVNT	n20	2437	Ant1	7.462	30	Pass
NVNT	n20	2462	Ant1	7.35	30	Pass
NVNT	n40	2422	Ant1	7.446	30	Pass
NVNT	n40	2437	Ant1	7.632	30	Pass
NVNT	n40	2452	Ant1	7.617	30	Pass

Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-18.42	≤8.00	PASS
		2437	-19.33	≤8.00	PASS
		2462	-18.88	≤8.00	PASS
11G	Ant1	2412	-26.87	≤8.00	PASS
		2437	-25.31	≤8.00	PASS
		2462	-26.52	≤8.00	PASS
11N20SISO	Ant1	2412	-27.50	≤8.00	PASS
		2437	-25.76	≤8.00	PASS
		2462	-27.80	≤8.00	PASS
11N40SISO	Ant1	2422	-30.41	≤8.00	PASS
		2437	-27.06	≤8.00	PASS
		2452	-28.00	≤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



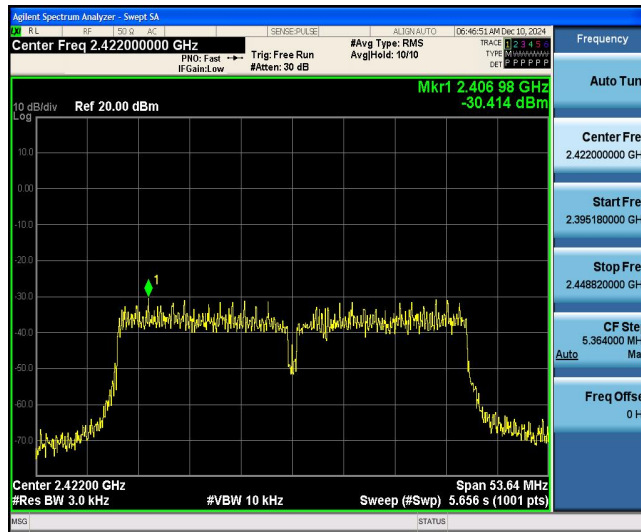
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



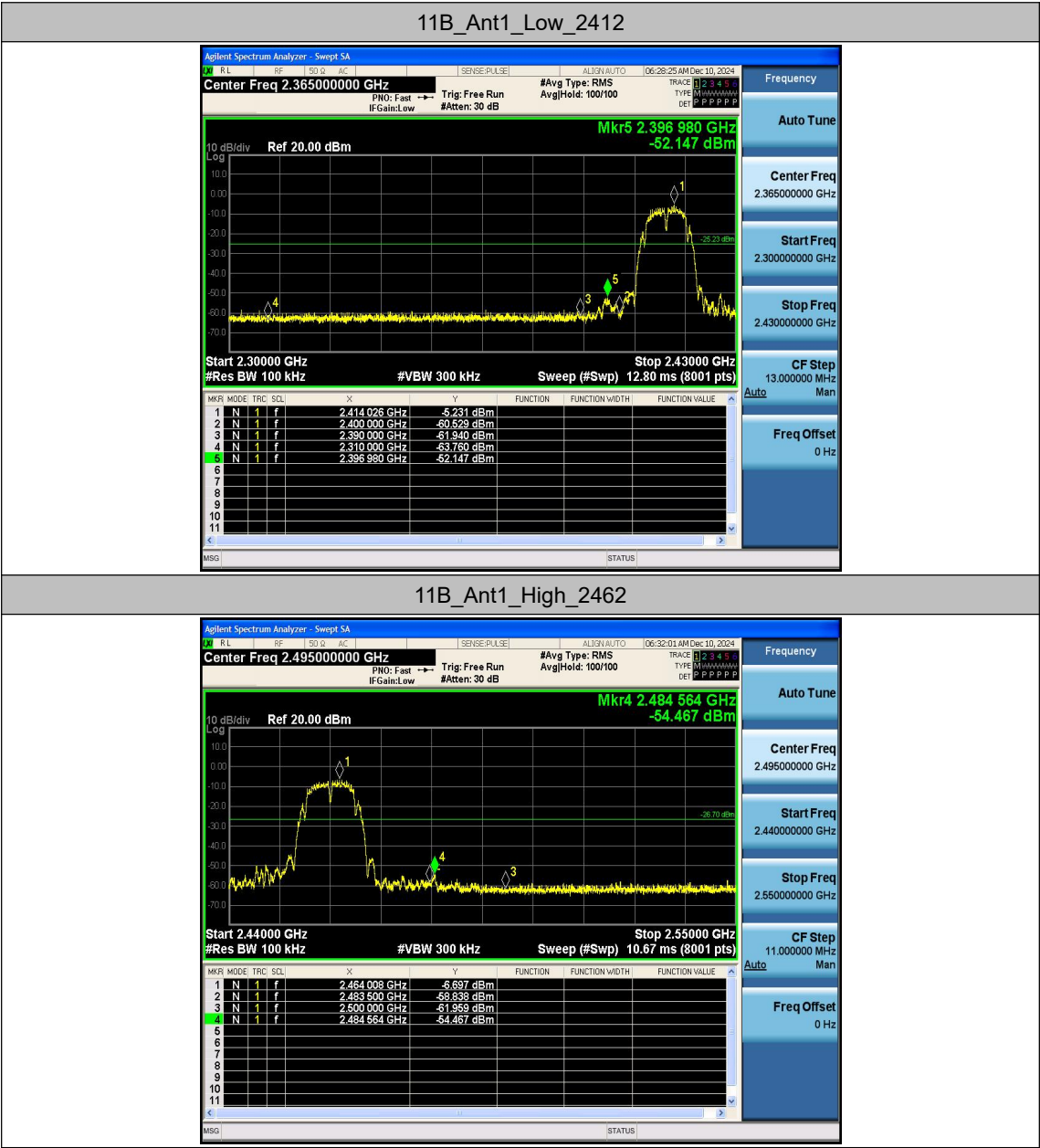
Test Graphs

Band edge measurements

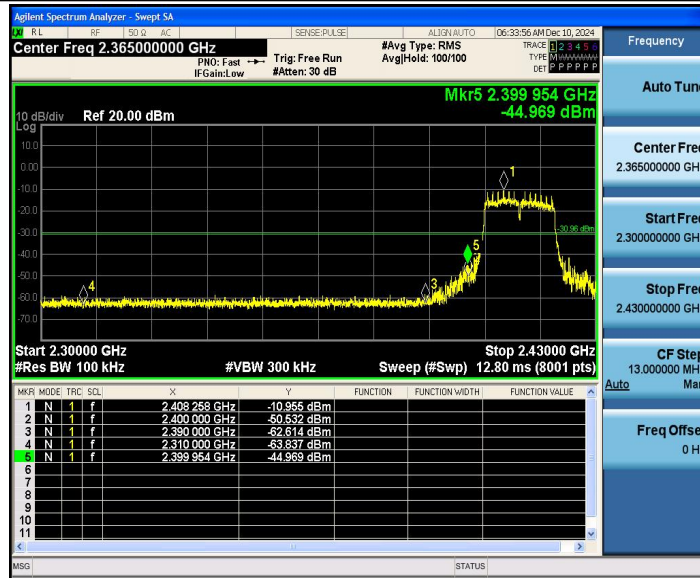
Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-5.23	-52.15	≤-25.23	PASS
		High	2462	-6.70	-54.47	≤-26.7	PASS
11G	Ant1	Low	2412	-10.96	-44.97	≤-30.96	PASS
		High	2462	-10.90	-57.41	≤-30.9	PASS
11N20SISO	Ant1	Low	2412	-11.04	-45.65	≤-31.04	PASS
		High	2462	-11.03	-55.52	≤-31.03	PASS
11N40SISO	Ant1	Low	2422	-14.53	-45.77	≤-34.53	PASS
		High	2452	-12.54	-49.82	≤-32.54	PASS

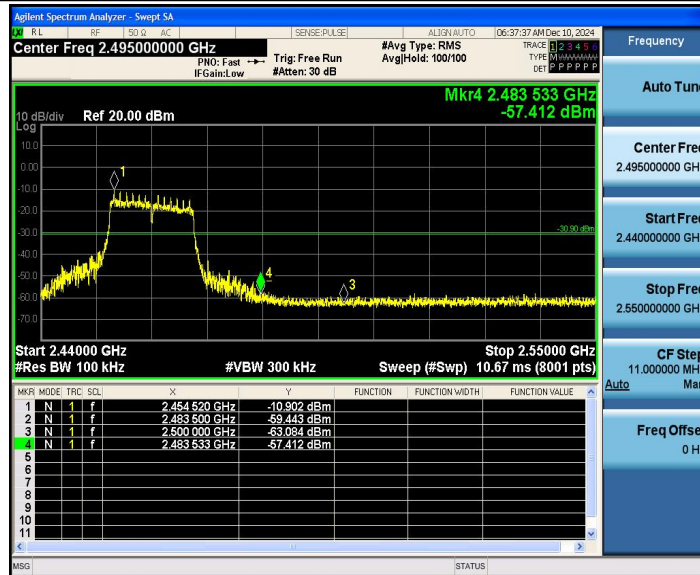
Test Graphs



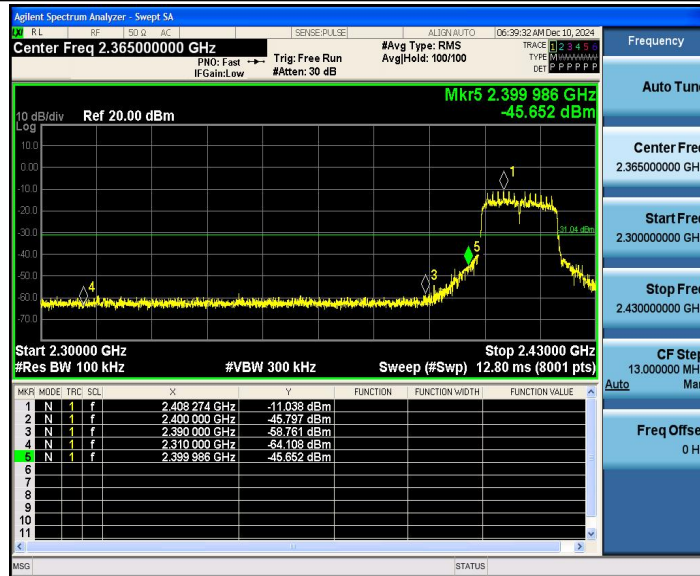
11G_Ant1_Low_2412



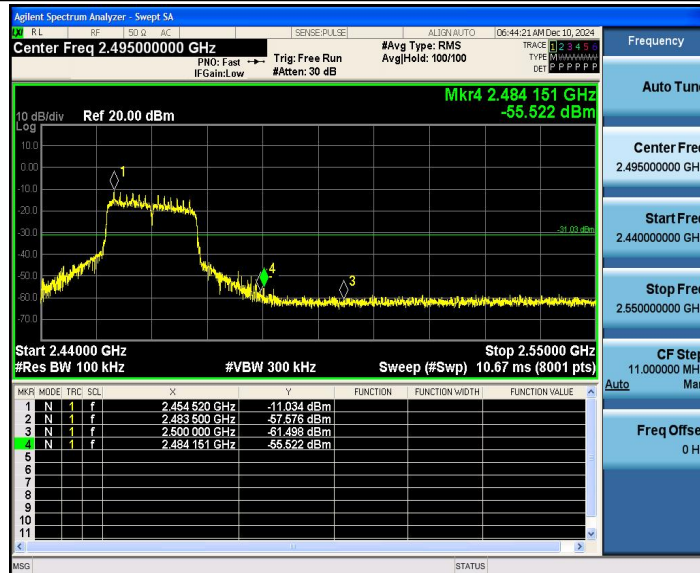
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



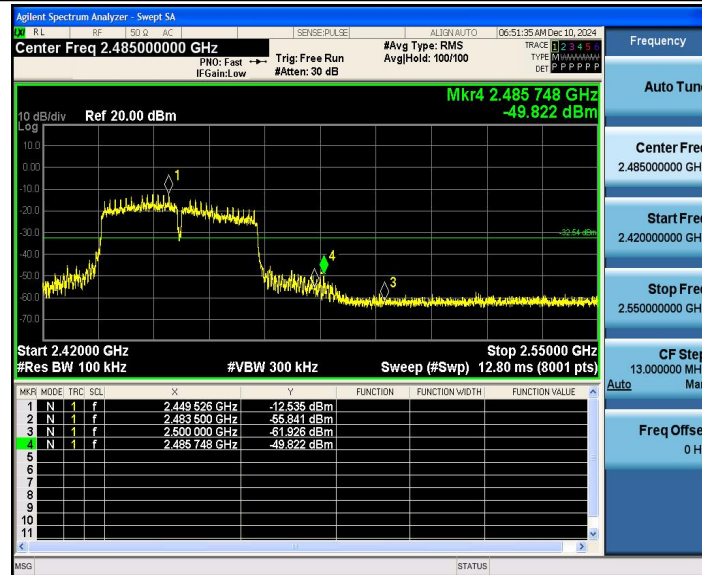
11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-5.95	-5.95	---	PASS
			30~1000	-5.95	-70.37	≤-25.95	PASS
			1000~26500	-5.95	-52.44	≤-25.95	PASS
		2437	Reference	-7.68	-7.68	---	PASS
			30~1000	-7.68	-69.81	≤-27.68	PASS
			1000~26500	-7.68	-53.04	≤-27.68	PASS
		2462	Reference	-8.34	-8.34	---	PASS
			30~1000	-8.34	-70.78	≤-28.34	PASS
			1000~26500	-8.34	-44.4	≤-28.34	PASS
11G	Ant1	2412	Reference	-11.30	-11.30	---	PASS
			30~1000	-11.30	-58.76	≤-31.3	PASS
			1000~26500	-11.30	-50.85	≤-31.3	PASS
		2437	Reference	-9.75	-9.75	---	PASS
			30~1000	-9.75	-70.96	≤-29.75	PASS
			1000~26500	-9.75	-54.53	≤-29.75	PASS
		2462	Reference	-11.38	-11.38	---	PASS
			30~1000	-11.38	-70.81	≤-31.38	PASS
			1000~26500	-11.38	-56.5	≤-31.38	PASS
11N20SISO	Ant1	2412	Reference	-11.14	-11.14	---	PASS
			30~1000	-11.14	-69.64	≤-31.14	PASS
			1000~26500	-11.14	-51.02	≤-31.14	PASS
		2437	Reference	-9.66	-9.66	---	PASS
			30~1000	-9.66	-69.43	≤-29.66	PASS
			1000~26500	-9.66	-50.04	≤-29.66	PASS
		2462	Reference	-12.07	-12.07	---	PASS
			30~1000	-12.07	-70.65	≤-32.07	PASS
			1000~26500	-12.07	-49.15	≤-32.07	PASS
11N40SISO	Ant1	2422	Reference	-14.75	-14.75	---	PASS
			30~1000	-14.75	-70.86	≤-34.75	PASS
			1000~26500	-14.75	-50.63	≤-34.75	PASS
		2437	Reference	-11.79	-11.79	---	PASS
			30~1000	-11.79	-70.16	≤-31.79	PASS
			1000~26500	-11.79	-57.19	≤-31.79	PASS
		2452	Reference	-13.00	-13.00	---	PASS
			30~1000	-13.00	-69.34	≤-33	PASS
			1000~26500	-13.00	-49.41	≤-33	PASS

Test Graphs

