

Appendix A: Test Results of 2.4GHz Wi-Fi (Transmitter AP6256)

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Appendix A.1: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.200	2407.400	2416.600	0.5	PASS
		2437	8.120	2432.920	2441.040	0.5	PASS
		2462	8.160	2457.920	2466.080	0.5	PASS
11G	Ant1	2412	15.120	2404.360	2419.480	0.5	PASS
		2437	15.480	2429.160	2444.640	0.5	PASS
		2462	14.640	2454.240	2468.880	0.5	PASS
11N20SISO	Ant1	2412	16.920	2403.360	2420.280	0.5	PASS
		2437	16.840	2428.560	2445.400	0.5	PASS
		2462	14.640	2454.000	2468.640	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



11N20SISO Ant1 2462



Appendix A.2: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	16.108	2404.3979	2420.5059	---	PASS
		2437	13.540	2430.3961	2443.9361	---	PASS
		2462	13.574	2455.2972	2468.8712	---	PASS
11G	Ant1	2412	17.667	2403.2470	2420.9140	---	PASS
		2437	18.184	2427.8222	2446.0062	---	PASS
		2462	18.244	2452.8191	2471.0631	---	PASS
11N20SISO	Ant1	2412	18.655	2402.7375	2421.3925	---	PASS
		2437	18.636	2427.7018	2446.3378	---	PASS
		2462	18.700	2452.5890	2471.2890	---	PASS

Test Graphs

11B_Ant1_2412

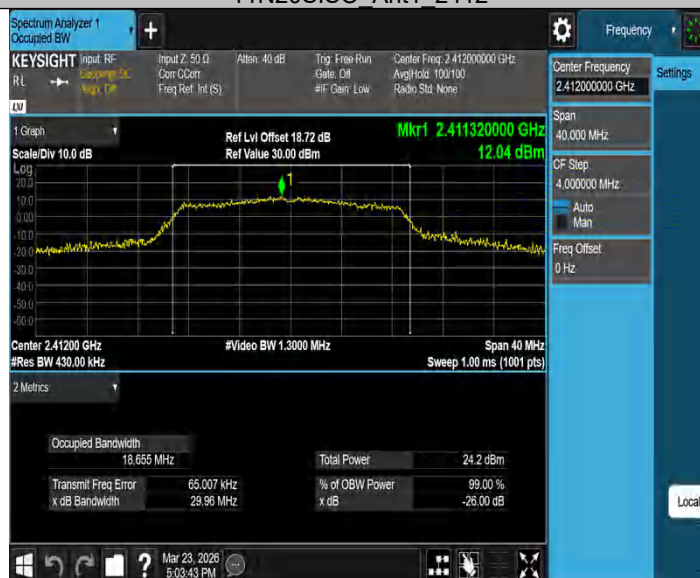


11B_Ant1_2437



11B_Ant1_2462







Appendix A.3: Test Results of Conducted Power Spectral Density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-1.28	≤8.00	PASS
		2437	-2.11	≤8.00	PASS
		2462	-2.84	≤8.00	PASS
11G	Ant1	2412	-4.63	≤8.00	PASS
		2437	-4.99	≤8.00	PASS
		2462	-5.41	≤8.00	PASS
11N20SISO	Ant1	2412	-4.70	≤8.00	PASS
		2437	-5.26	≤8.00	PASS
		2462	-5.52	≤8.00	PASS

Test Graphs

11B_Ant1_2412

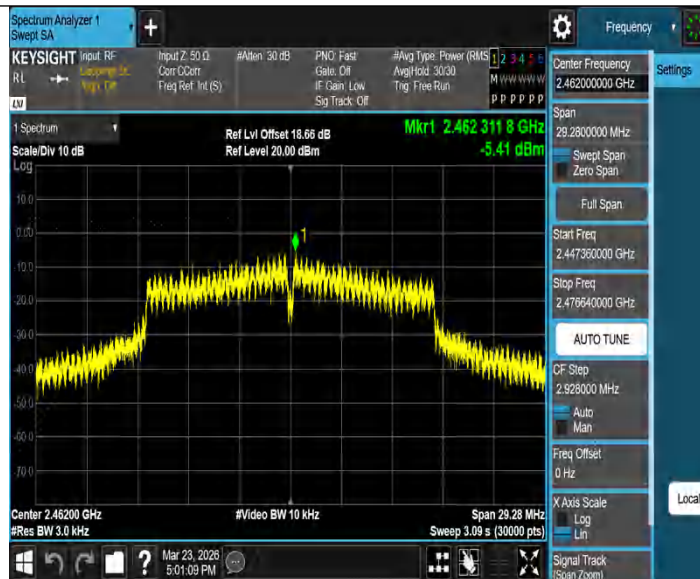


11B_Ant1_2437



11B_Ant1_2462





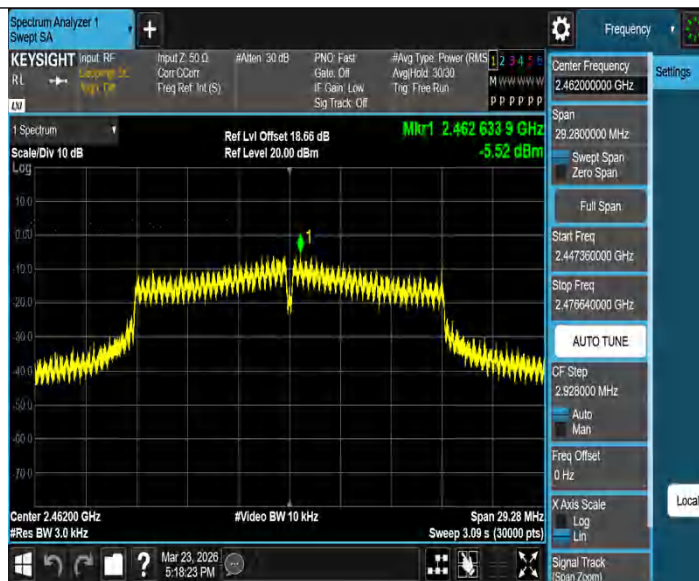
11N20SISO Ant1 2412



11N20SISO Ant1 2437



11N20SISO Ant1 2462



Appendix A.4: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	11.85	-23.68	≤-8.15	PASS
		High	2462	10.05	-35.87	≤-9.95	PASS
11G	Ant1	Low	2412	6.86	-19.72	≤-13.14	PASS
		High	2462	6.06	-30.89	≤-13.94	PASS
11N20SISO	Ant1	Low	2412	7.20	-20	≤-12.8	PASS
		High	2462	6.89	-28.54	≤-13.11	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 A.5: Test Results of Conducted Spurious Emissions

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	10.92	10.92	---	PASS
			30~1000	10.92	-50.78	≤-9.08	PASS
			1000~26500	10.92	-36.85	≤-9.08	PASS
		2437	Reference	11.19	11.19	---	PASS
			30~1000	11.19	-51.16	≤-8.81	PASS
			1000~26500	11.19	-38.55	≤-8.81	PASS
		2462	Reference	10.45	10.45	---	PASS
			30~1000	10.45	-51.66	≤-9.55	PASS
			1000~26500	10.45	-40.9	≤-9.55	PASS
11G	Ant1	2412	Reference	6.78	6.78	---	PASS
			30~1000	6.78	-51.08	≤-13.22	PASS
			1000~26500	6.78	-49.01	≤-13.22	PASS
		2437	Reference	5.32	5.32	---	PASS
			30~1000	5.32	-50.53	≤-14.68	PASS
			1000~26500	5.32	-48.77	≤-14.68	PASS
		2462	Reference	4.78	4.78	---	PASS
			30~1000	4.78	-50.84	≤-15.22	PASS
			1000~26500	4.78	-51.86	≤-15.22	PASS
11N20SISO	Ant1	2412	Reference	6.81	6.81	---	PASS
			30~1000	6.81	-51.18	≤-13.19	PASS
			1000~26500	6.81	-48.38	≤-13.19	PASS
		2437	Reference	4.78	4.78	---	PASS
			30~1000	4.78	-49.25	≤-15.22	PASS
			1000~26500	4.78	-50.44	≤-15.22	PASS
		2462	Reference	4.29	4.29	---	PASS
			30~1000	4.29	-51.69	≤-15.71	PASS
			1000~26500	4.29	-49.14	≤-15.71	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



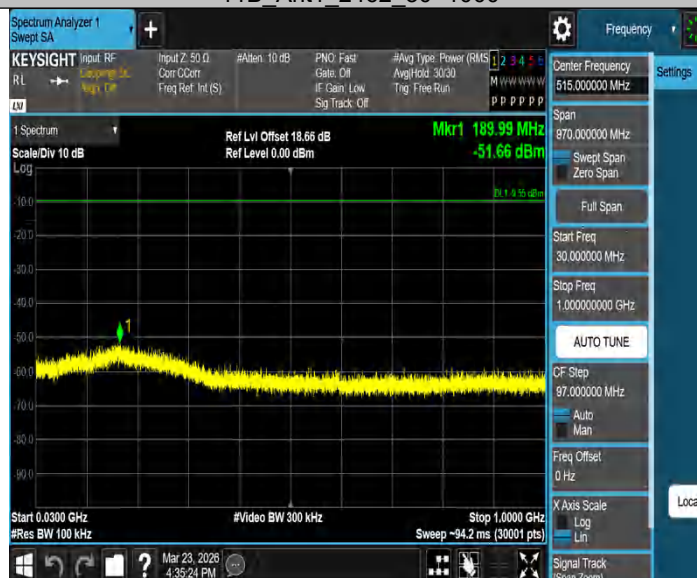
11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



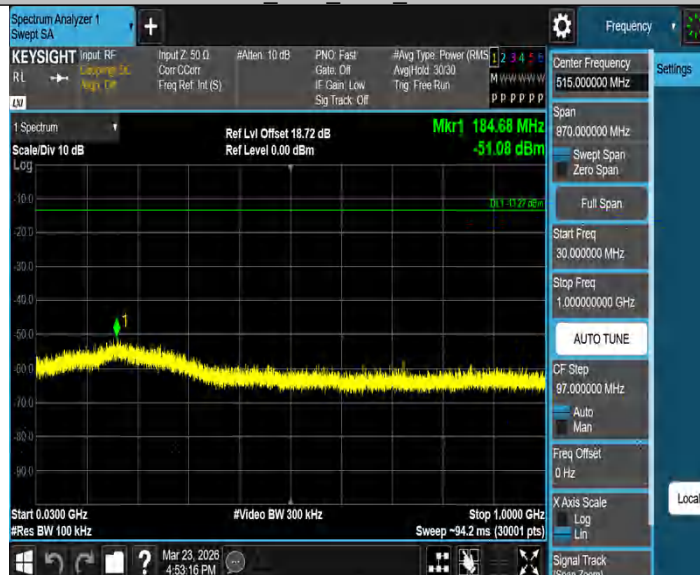
11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



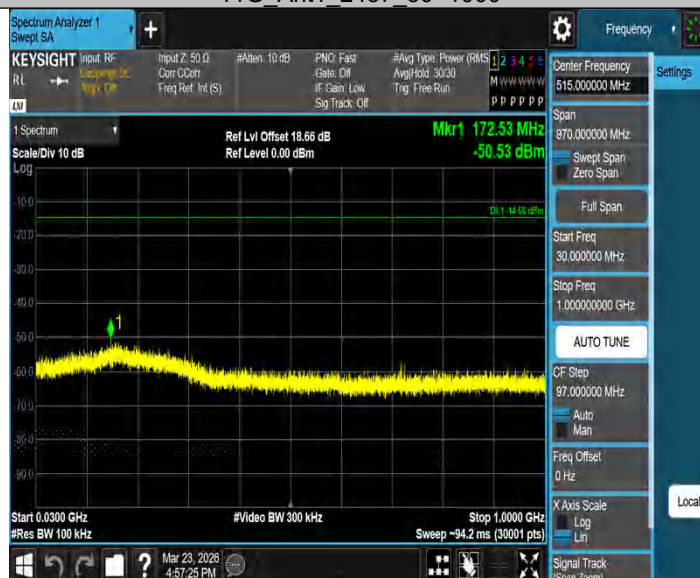
11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



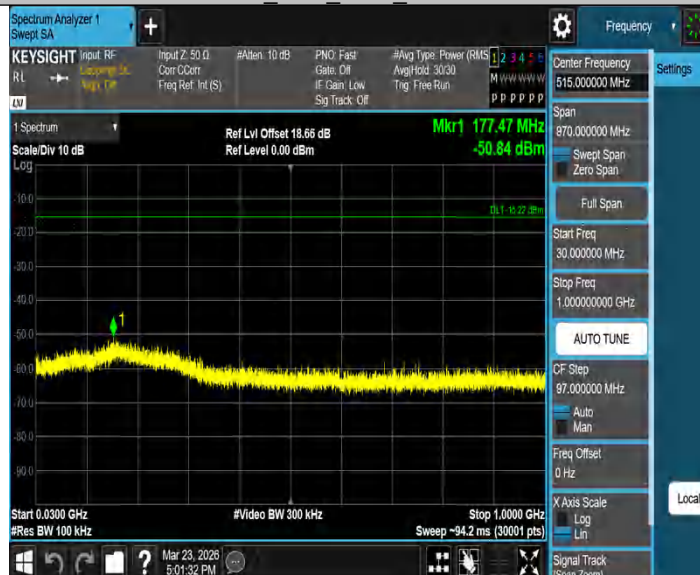
11G_Ant1_2437_1000~26500



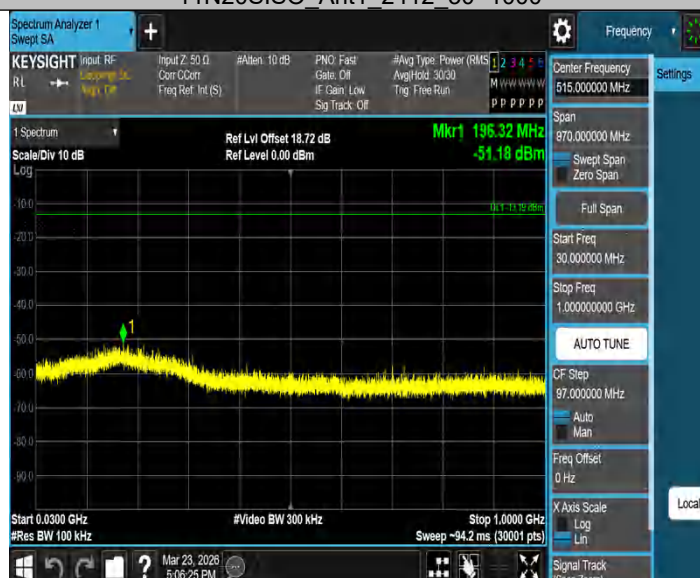
11G_Ant1_2462_0~Reference

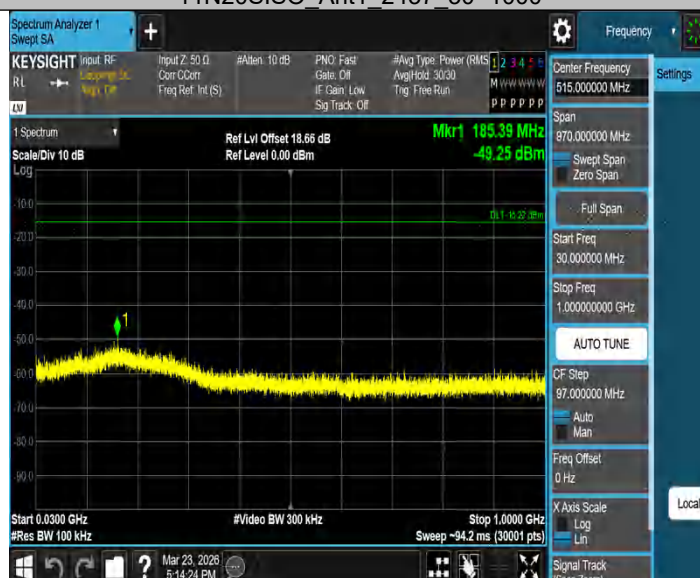


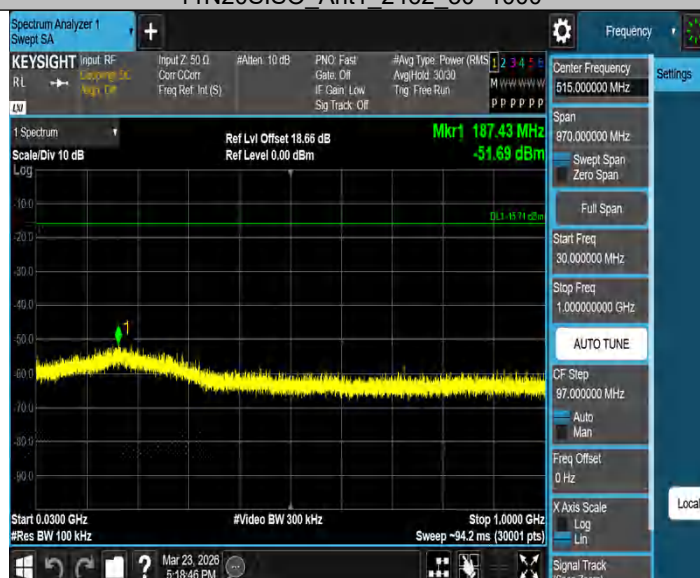
11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500









Appendix A.6: Test Results of Radiated Spurious Emissions

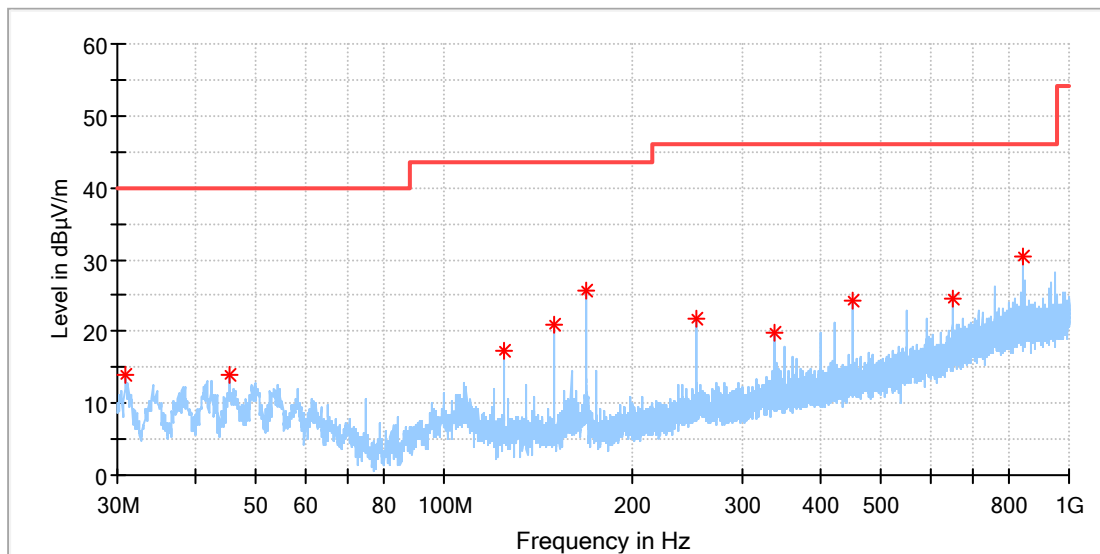
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz

EUT Information

EUT Name:	AiMOGA Mornine
Model:	M1
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168584456/A004209761-007
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

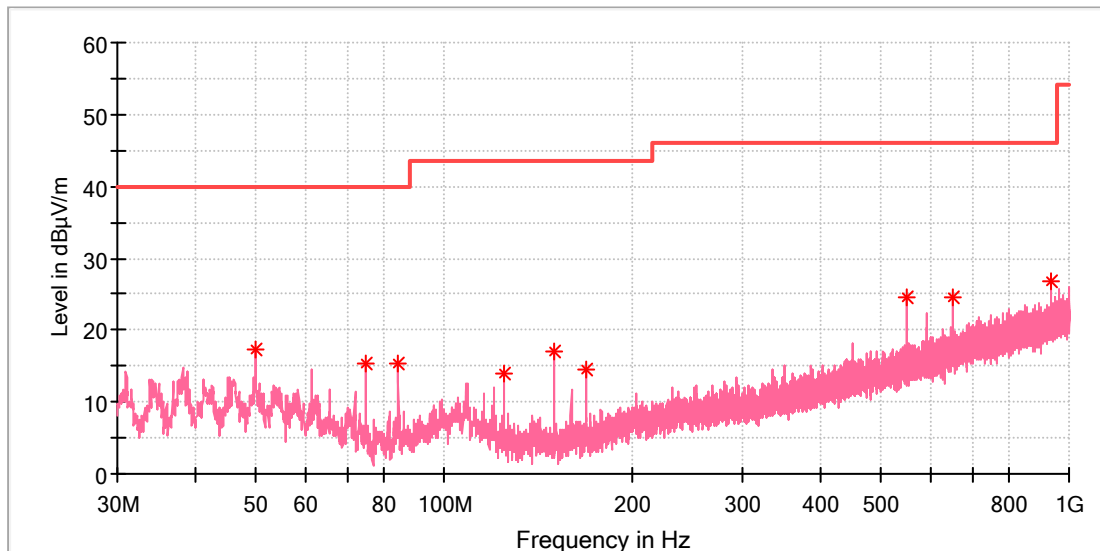
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.916111	13.98	40.00	26.02	100.0	H	117.0	-22.9
45.358333	13.83	40.00	26.17	100.0	H	125.0	-18.9
125.006111	17.32	43.50	26.18	100.0	H	261.0	-21.4
150.010556	20.82	43.50	22.68	100.0	H	261.0	-22.3
168.979444	25.75	43.50	17.75	100.0	H	7.0	-21.4
253.423333	21.83	46.00	24.17	100.0	H	108.0	-17.3
337.921111	19.75	46.00	26.25	100.0	H	304.0	-15.1
450.010000	24.17	46.00	21.83	100.0	H	195.0	-12.8
649.991667	24.56	46.00	21.44	100.0	H	359.0	-8.8
844.853889	30.39	46.00	15.61	100.0	H	141.0	-5.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name: AiMOGA Mornine
Model: M1
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 168584456/A004209761-007
Test Voltage: Battery
Remark: Temp 23 Humi:53%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

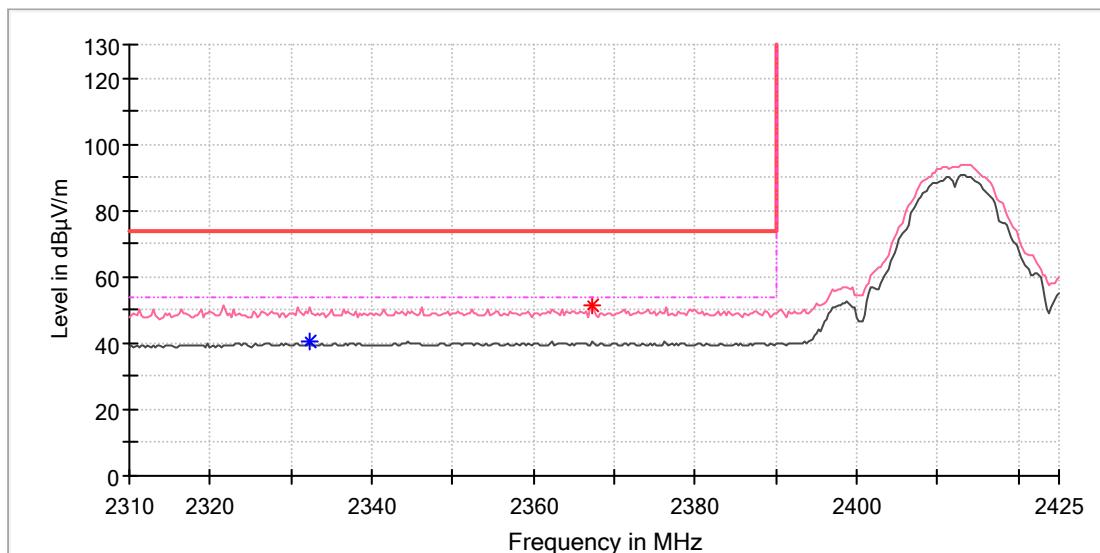
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.992778	17.27	40.00	22.73	100.0	V	243.0	-18.4
74.997222	15.38	40.00	24.62	100.0	V	243.0	-23.5
84.427778	15.47	40.00	24.53	100.0	V	201.0	-22.6
125.006111	14.07	43.50	29.43	100.0	V	79.0	-21.4
150.010556	16.93	43.50	26.57	100.0	V	20.0	-22.3
168.979444	14.38	43.50	29.12	100.0	V	29.0	-21.4
550.027778	24.44	46.00	21.56	100.0	V	282.0	-10.8
649.991667	24.58	46.00	21.42	100.0	V	215.0	-8.8
938.458889	26.69	46.00	19.31	100.0	V	235.0	-4.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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EUT Information

EUT Name:	AiMOGA Mornine
Model:	M1
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	168584456/A004209761-007
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



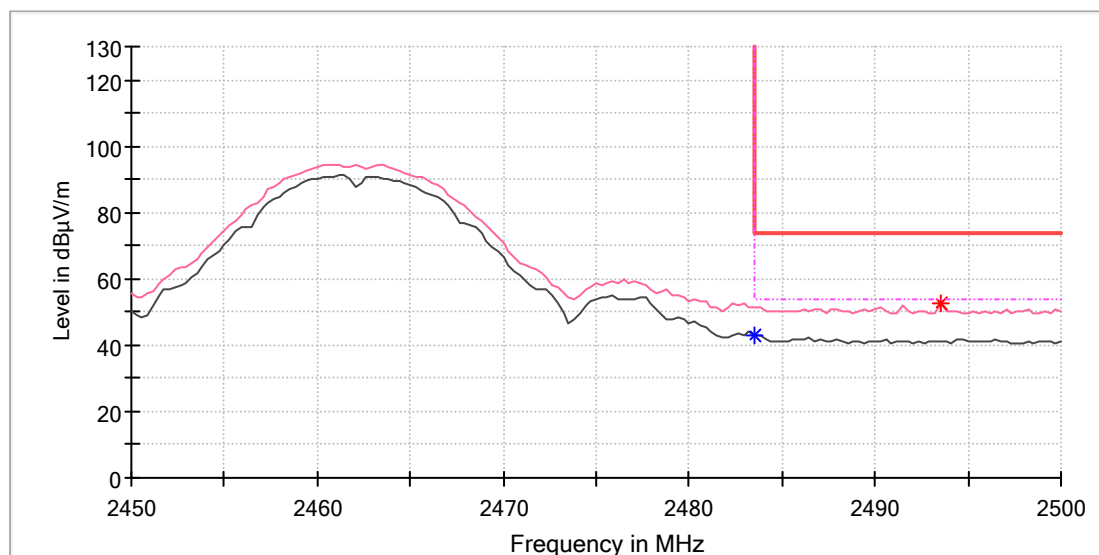
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2332.352941	---	40.72	54.00	13.28	150.0	V	89.0	8.3
2367.352941	51.56	---	74.00	22.44	150.0	V	51.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
93.7	122.0	118.0	120.0	2.0	100.0	V	135.0	0.0

EUT Name:	AI MOGA Mornine
Model:	M1
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	168584456/A004209761-007
Test Voltage:	Battery
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	43.18	54.00	10.82	150.0	V	120.0	9.0
2493.529412	52.85	---	74.00	21.15	150.0	V	189.0	9.0

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
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