

Appendix B: Test Results

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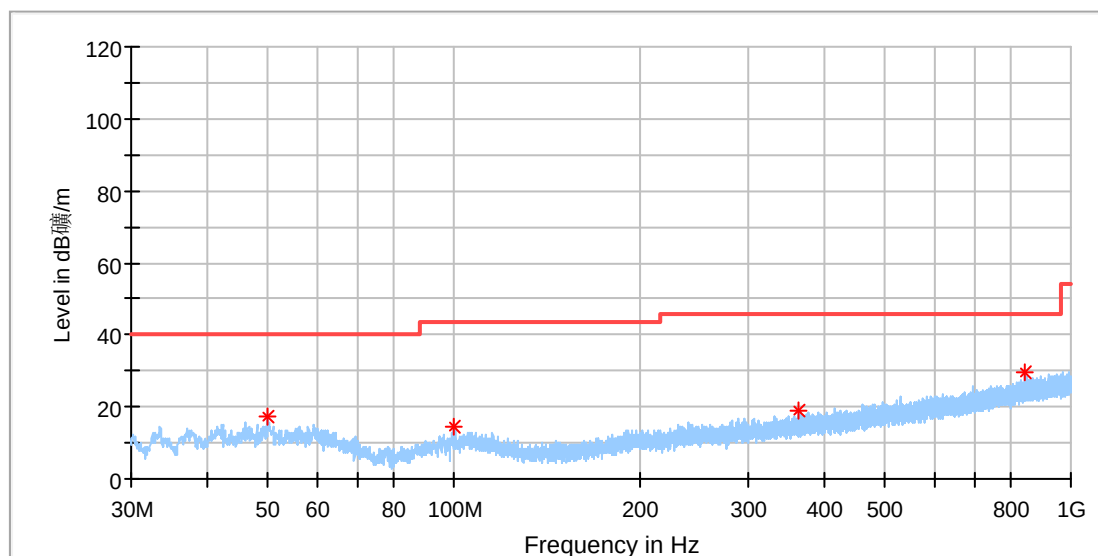
Note: The testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz to 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix B.1: Test Results of Field strength of fundamental & harmonics

30MHz - 1GHz

EUT Information

EUT Name:	Mouse
Model:	MA204W
Test Mode:	2.4GHz LOW CH
Test Voltage::	Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

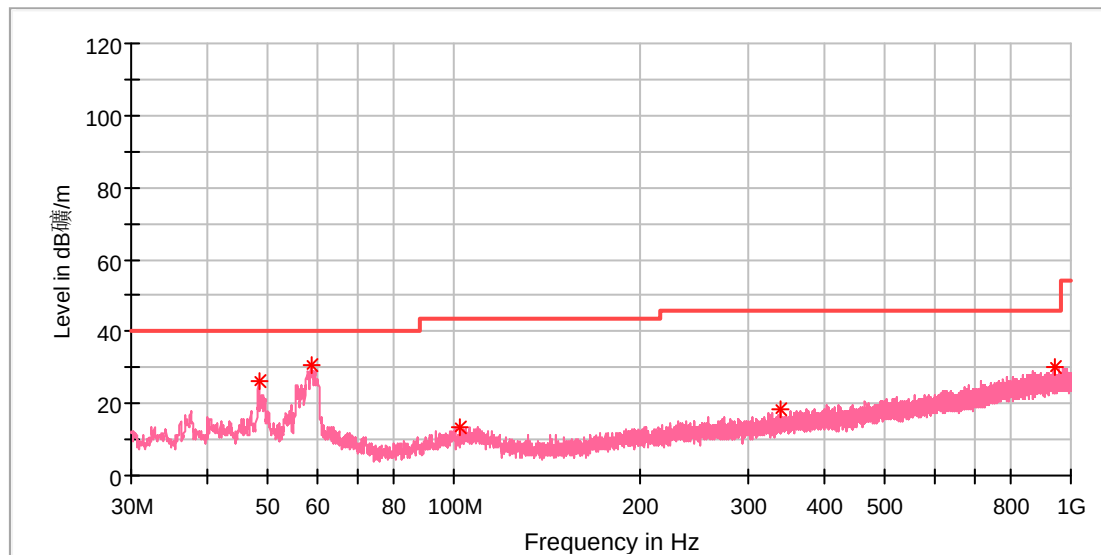


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.885000	17.52	40.00	22.48	100.0	H	42.0	-18.3
99.743000	14.49	43.50	29.01	100.0	H	329.0	-19.0
363.001000	19.24	46.00	26.76	100.0	H	338.0	-14.6
841.599000	29.51	46.00	16.49	100.0	H	175.0	-5.6

EUT Information

EUT Name: Mouse
Model: MA204W
Test Mode: 2.4GHz LOW CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

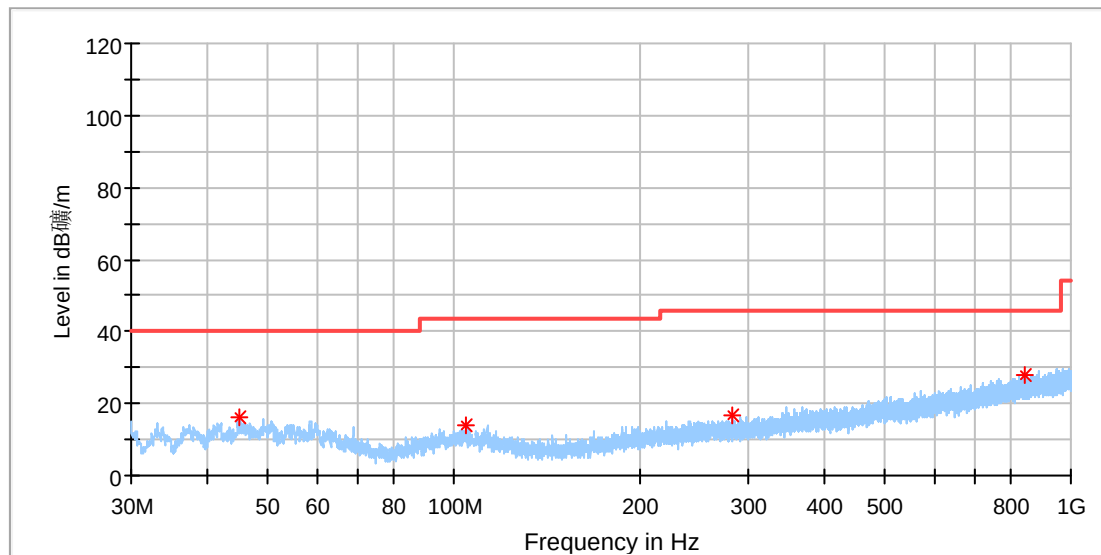


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
48.236000	26.01	40.00	13.99	100.0	V	198.0	-18.4
58.663500	30.63	40.00	9.37	100.0	V	48.0	-18.8
102.119500	13.53	43.50	29.97	100.0	V	205.0	-18.9
338.460000	18.21	46.00	27.79	100.0	V	156.0	-15.0
943.546000	29.88	46.00	16.12	100.0	V	215.0	-4.5

EUT Information

EUT Name: Mouse
Model: MA204W
Test Mode: 2.4GHz HIGH CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

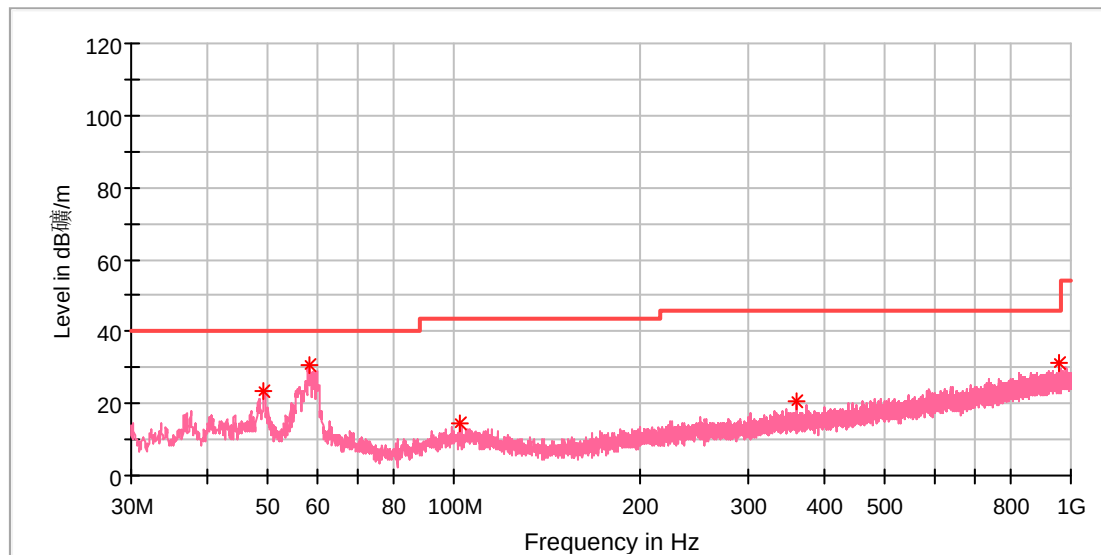


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.035000	16.15	40.00	23.85	100.0	H	77.0	-18.8
104.641500	14.00	43.50	29.50	100.0	H	41.0	-18.8
281.909000	16.87	46.00	29.13	100.0	H	354.0	-16.6
842.617500	28.03	46.00	17.97	100.0	H	263.0	-5.6

EUT Information

EUT Name: Mouse
Model: MA204W
Test Mode: 2.4GHz HIGH CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

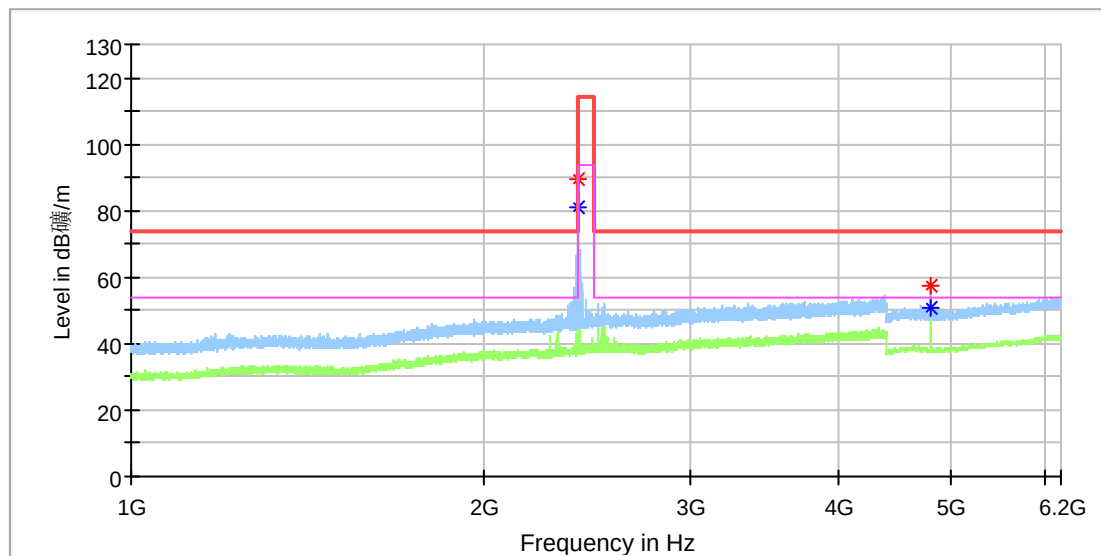
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.157500	23.24	40.00	16.76	100.0	V	178.0	-18.3
58.469500	30.61	40.00	9.39	100.0	V	67.0	-18.8
102.459000	14.41	43.50	29.09	100.0	V	341.0	-18.9
359.897000	20.44	46.00	25.56	100.0	V	40.0	-14.6
953.149000	31.10	46.00	14.90	100.0	V	299.0	-4.3

1GHz - 18GHz

Note: The highest waveform in the figure is 2.4GHz Fundamental.

EUT Information

EUT Name:	Mouse
Model:	MA204W
Test Mode:	2.4GHz LOW CH
Test Voltage::	Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

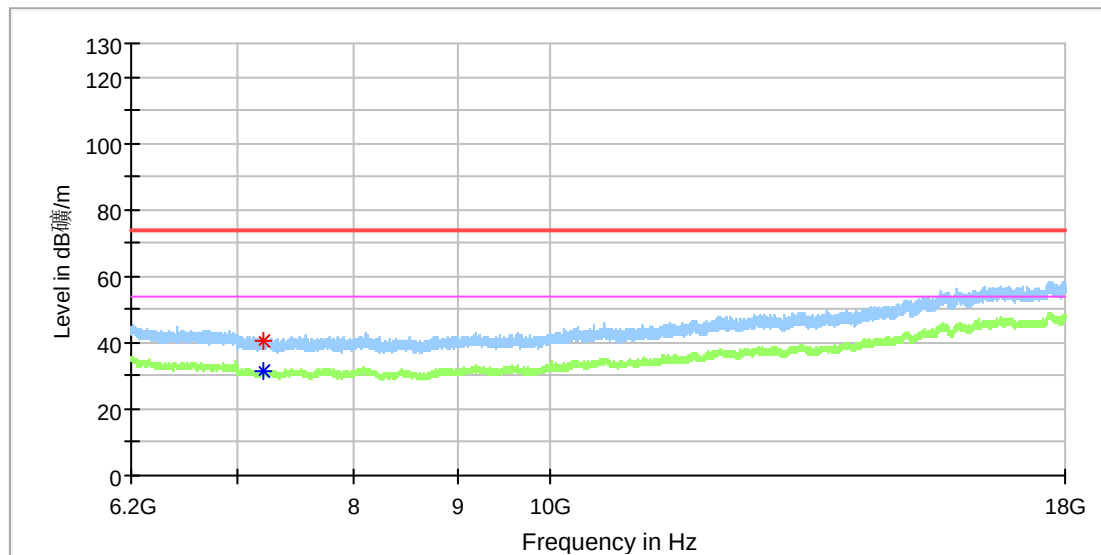


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2402.670000	---	80.84	94.00	13.16	100.0	H	191.0	7.0
2404.370000	89.44	---	114.00	24.56	100.0	H	3.0	7.0
4805.000000	57.44	---	74.00	16.56	100.0	H	109.0	11.8
4805.000000	---	50.83	54.00	3.17	100.0	H	109.0	11.8

EUT Information

EUT Name: Mouse
Model: MA204W
Test Mode: 2.4GHz LOW CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

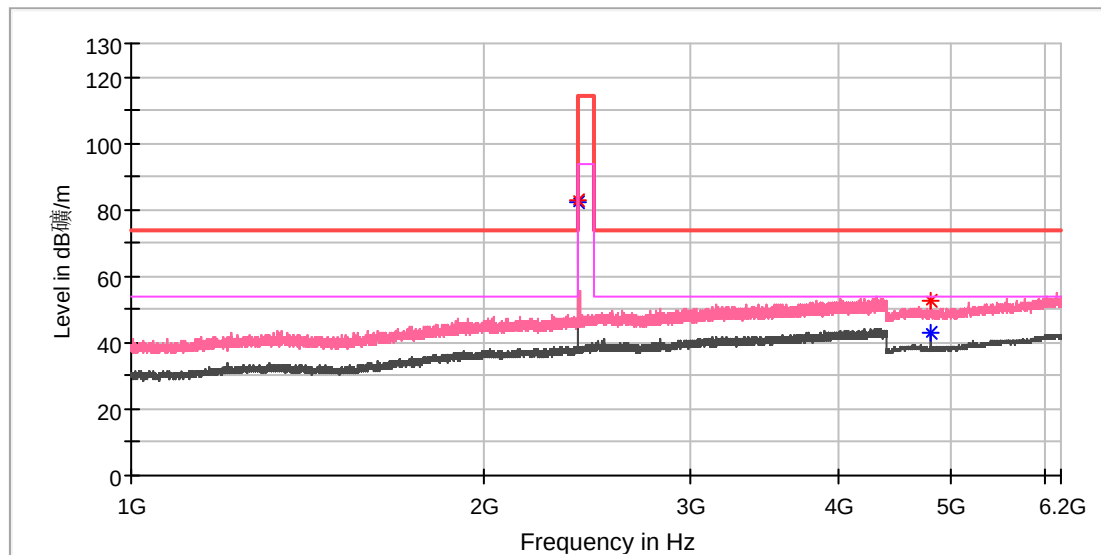


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.458333	40.45	---	74.00	33.55	100.0	H	0.0	8.8
7206.441667	---	31.61	54.00	22.39	100.0	H	0.0	8.8

EUT Information

EUT Name: Mouse
Model: MA204W
Test Mode: 2.4GHz LOW CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

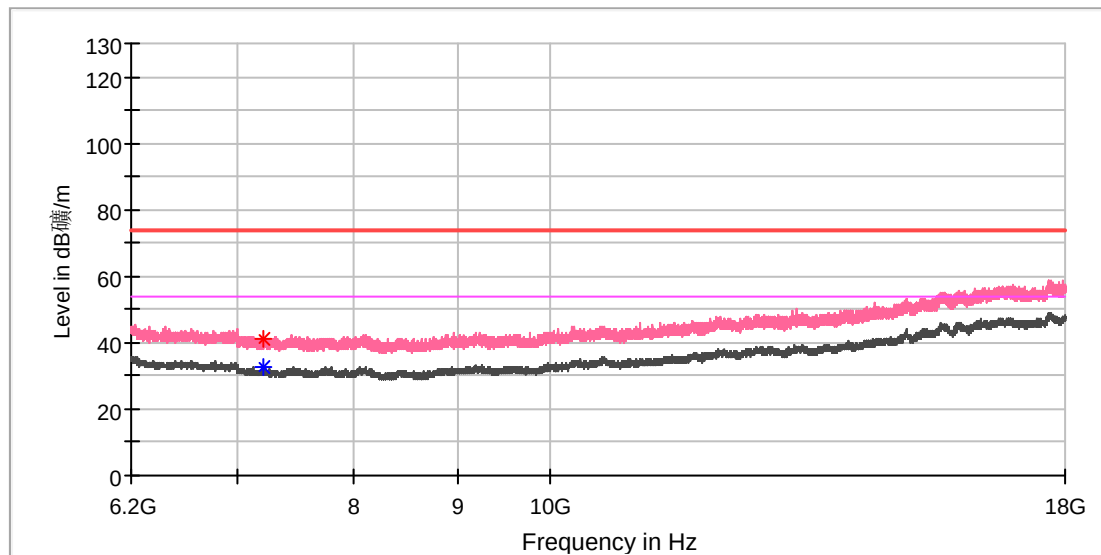


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2403.010000	82.58	---	114.00	31.42	100.0	V	101.0	7.0
2403.180000	---	82.11	94.00	11.89	100.0	V	101.0	7.0
4804.500000	52.53	---	74.00	21.47	100.0	V	241.0	11.8
4805.000000	---	43.05	54.00	10.95	100.0	V	241.0	11.8

EUT Information

EUT Name: Mouse
Model: MA204W
Test Mode: 2.4GHz LOW CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

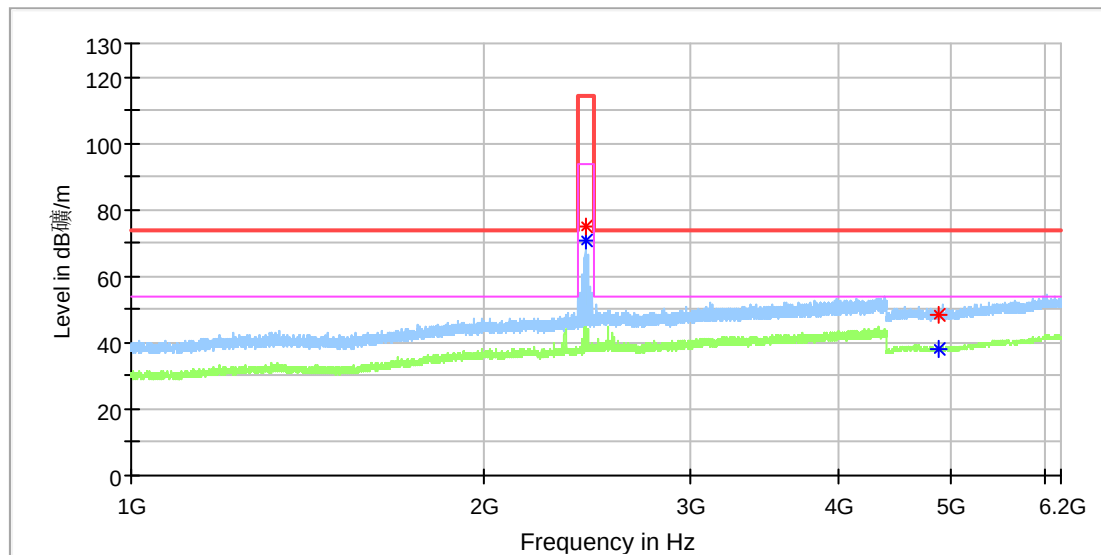


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7208.900000	---	32.68	54.00	21.32	100.0	V	284.0	8.8
7215.783333	41.07	---	74.00	32.93	100.0	V	306.0	8.7

EUT Information

EUT Name: Mouse
Model: MA204W
Test Mode: 2.4GHz Middle CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

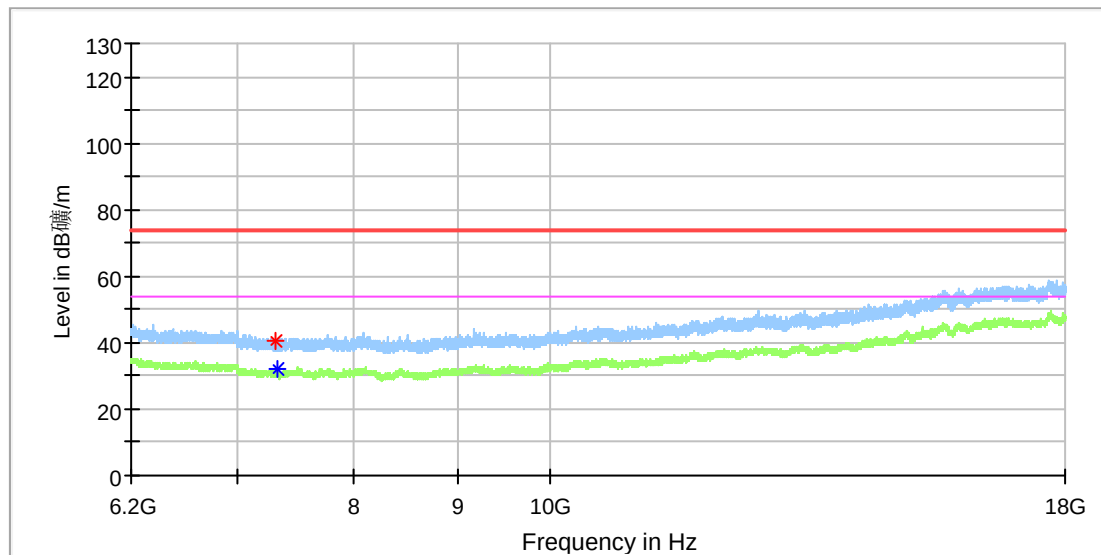


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2437.350000	---	70.69	94.00	23.31	100.0	H	289.0	7.4
2437.520000	75.13	---	114.00	38.87	100.0	H	289.0	7.4
4872.000000	---	38.22	54.00	15.78	100.0	H	198.0	11.8
4874.000000	48.53	---	74.00	25.47	100.0	H	81.0	11.8

EUT Information

EUT Name: Mouse
Model: MA204W
Test Mode: 2.4GHz Middle CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

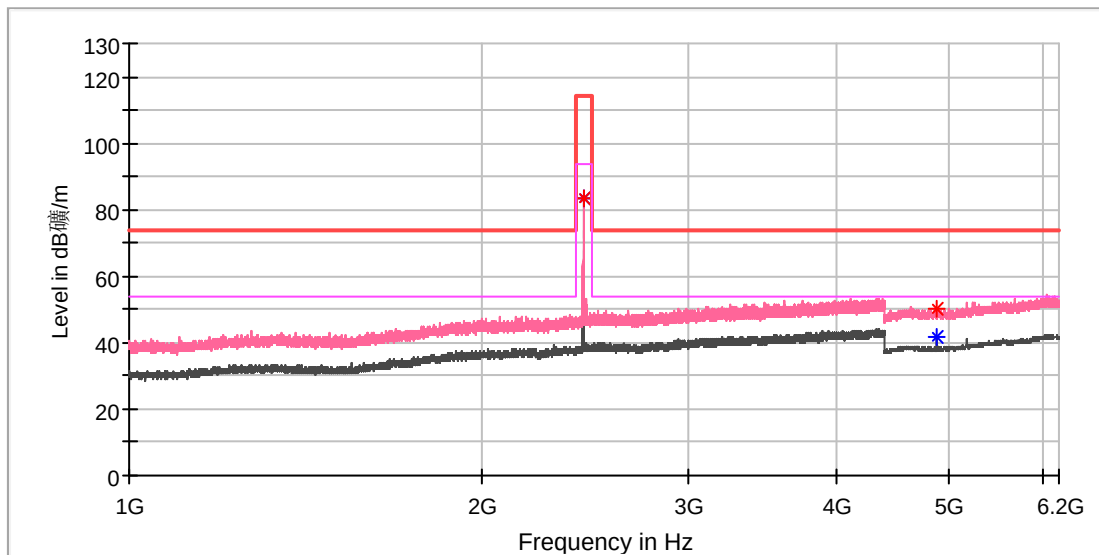


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7314.608333	40.58	---	74.00	33.42	100.0	H	342.0	8.2
7321.000000	---	31.75	54.00	22.25	100.0	H	342.0	8.2

EUT Information

EUT Name: Mouse
Model: MA204W
Test Mode: 2.4GHz Middle CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

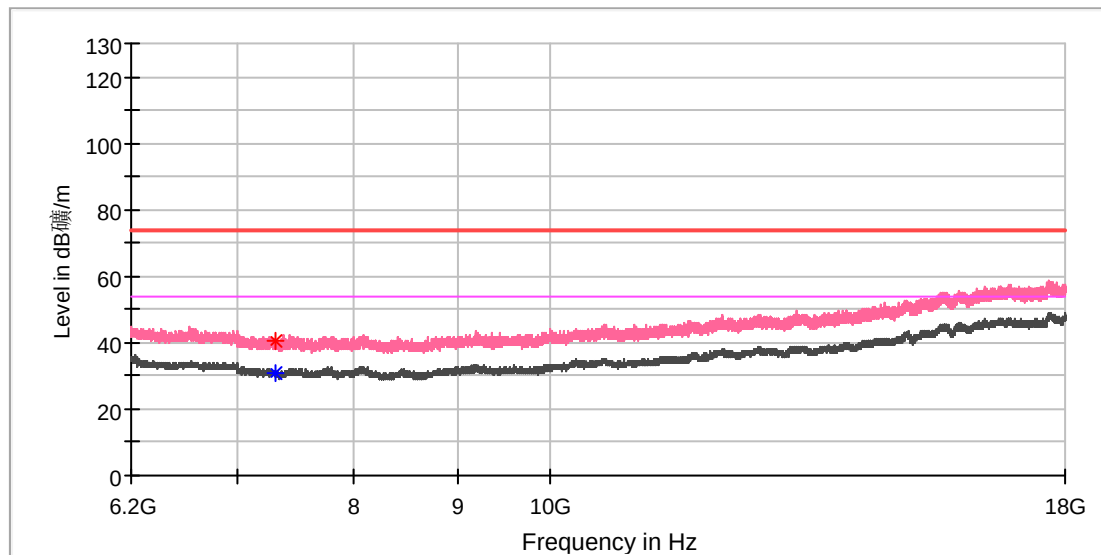


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2439.050000	83.53	---	114.00	30.47	100.0	V	239.0	7.4
2439.050000	---	83.21	94.00	10.79	100.0	V	239.0	7.4
4877.000000	50.32	---	74.00	23.68	100.0	V	245.0	11.8
4877.500000	---	41.65	54.00	12.35	100.0	V	245.0	11.8

EUT Information

EUT Name: Mouse
Model: MA204W
Test Mode: 2.4GHz Middle CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

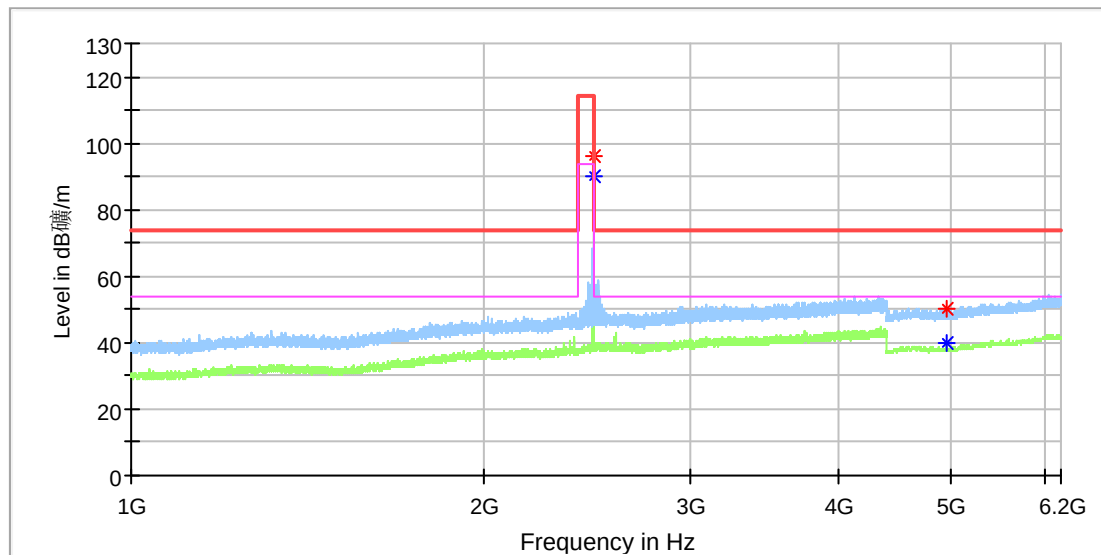


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7315.100000	40.73	---	74.00	33.27	100.0	V	48.0	8.2
7318.050000	---	31.06	54.00	22.94	100.0	V	70.0	8.2

EUT Information

EUT Name: Mouse
Model: MA204W
Test Mode: 2.4GHz HIGH CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

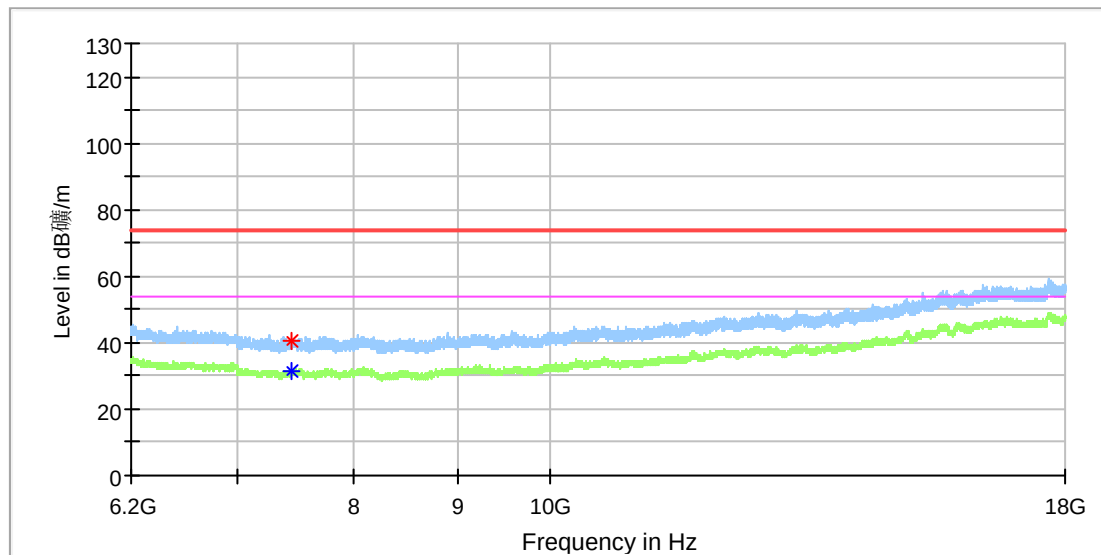


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2478.320000	96.43	---	114.00	17.57	100.0	H	8.0	7.4
2478.320000	---	90.06	94.00	3.94	100.0	H	8.0	7.4
4956.000000	---	39.99	54.00	14.01	100.0	H	228.0	11.8
4957.000000	50.15	---	74.00	23.85	100.0	H	300.0	11.8

EUT Information

EUT Name: Mouse
Model: MA204W
Test Mode: 2.4GHz HIGH CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

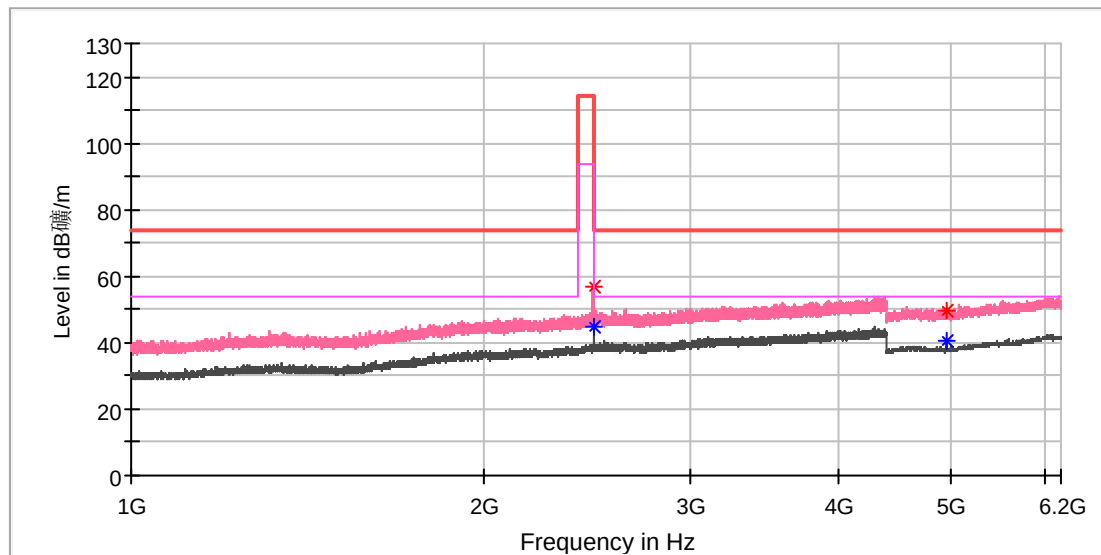


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7437.033333	40.40	---	74.00	33.60	100.0	H	134.0	8.4
7439.000000	---	31.29	54.00	22.71	100.0	H	322.0	8.4

EUT Information

EUT Name: Mouse
Model: MA204W
Test Mode: 2.4GHz HIGH CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

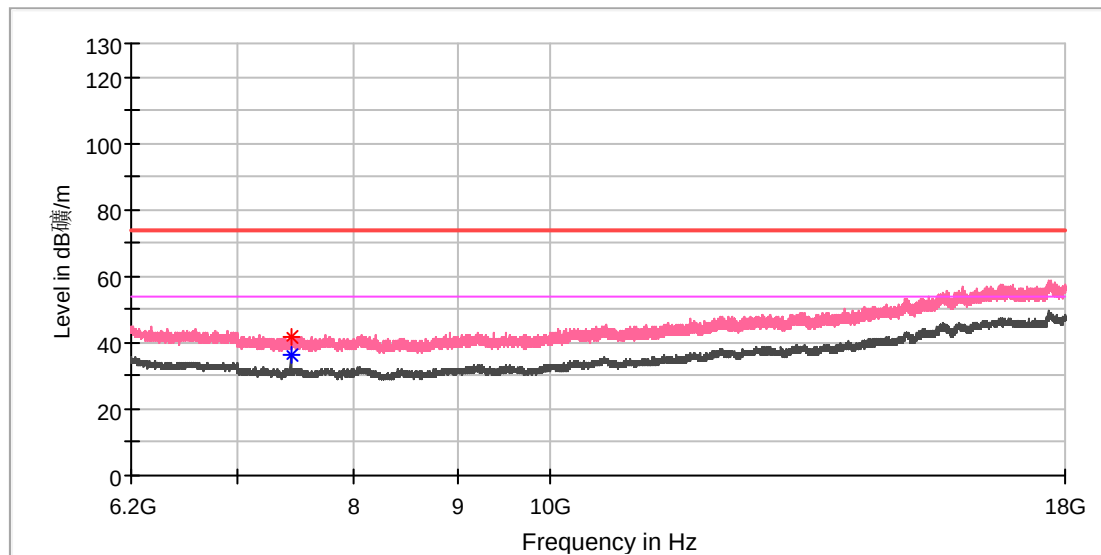


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2482.230000	---	44.85	94.00	49.15	100.0	V	217.0	7.4
2482.910000	56.99	---	114.00	57.01	100.0	V	217.0	7.4
4958.500000	49.84	---	74.00	24.16	100.0	V	213.0	11.8
4958.500000	---	40.57	54.00	13.43	100.0	V	213.0	11.8

EUT Information

EUT Name: Mouse
Model: MA204W
Test Mode: 2.4GHz HIGH CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

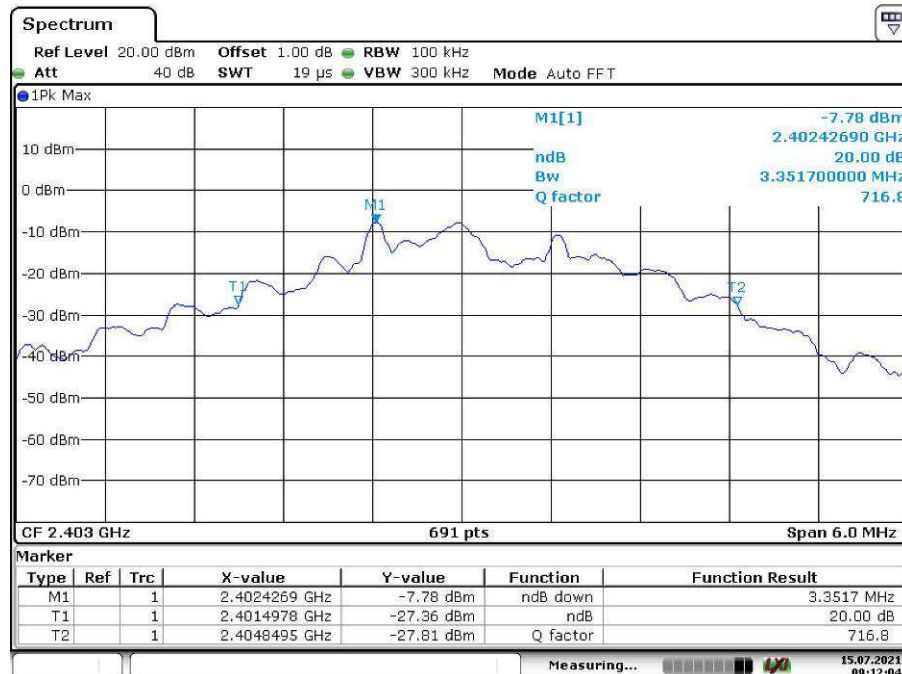


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7436.541667	41.45	---	74.00	32.55	100.0	V	199.0	8.4
7436.541667	---	36.18	54.00	17.82	100.0	V	199.0	8.4

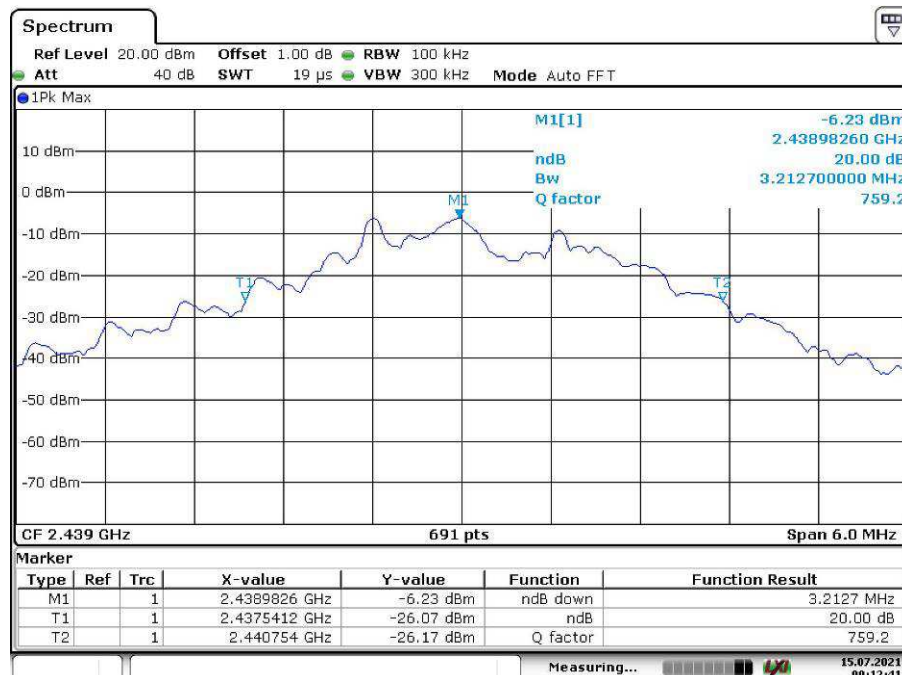
Appendix B.2: Test Results of 20dB Bandwidth

2403MHz



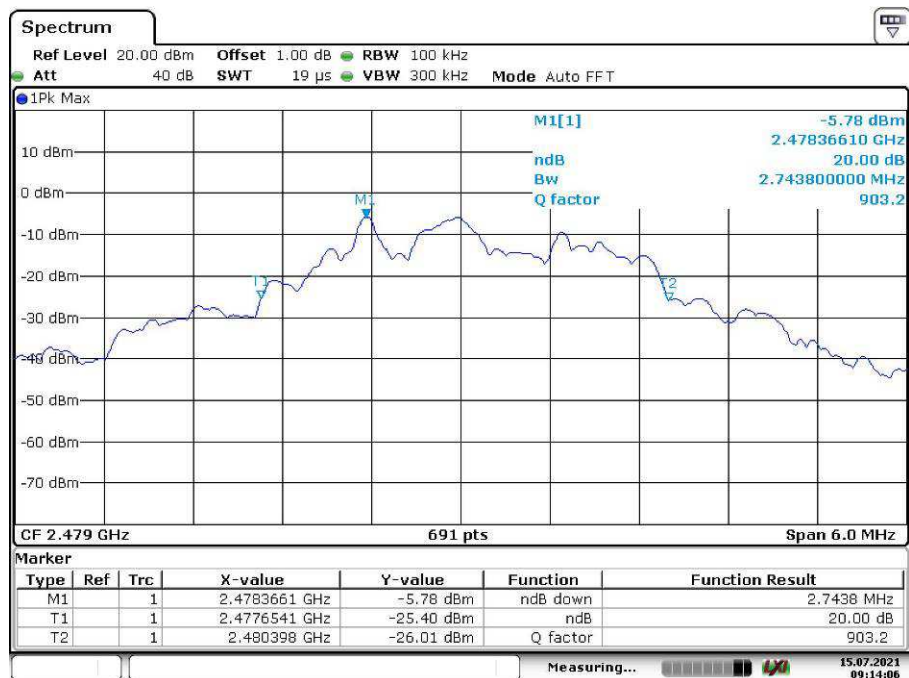
Date: 15.JUL.2021 09:12:04

2439MHz



Date: 15.JUL.2021 09:12:41

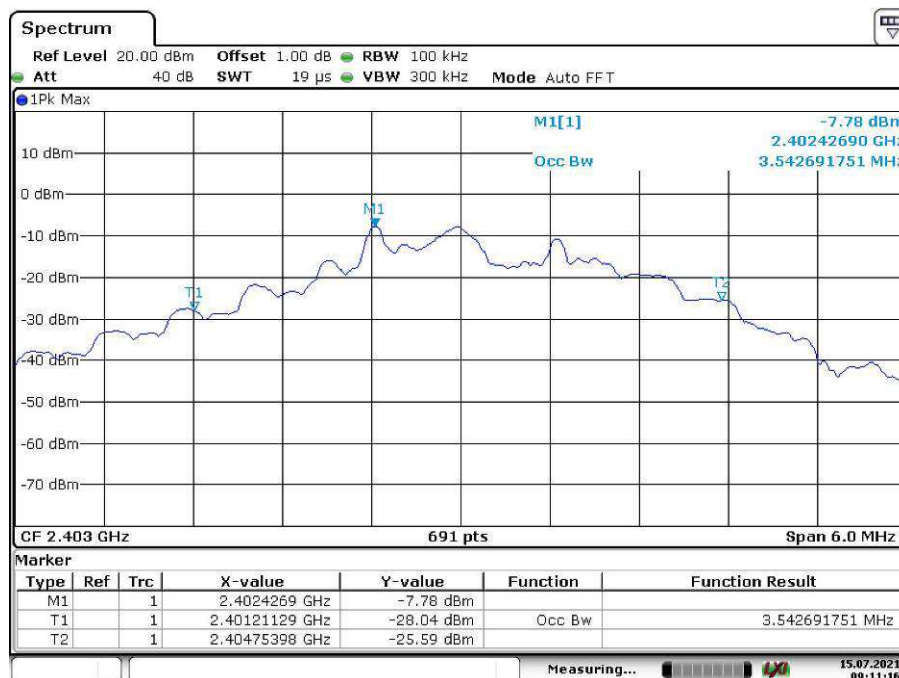
2479MHz



Date: 15.JUL.2021 09:14:06

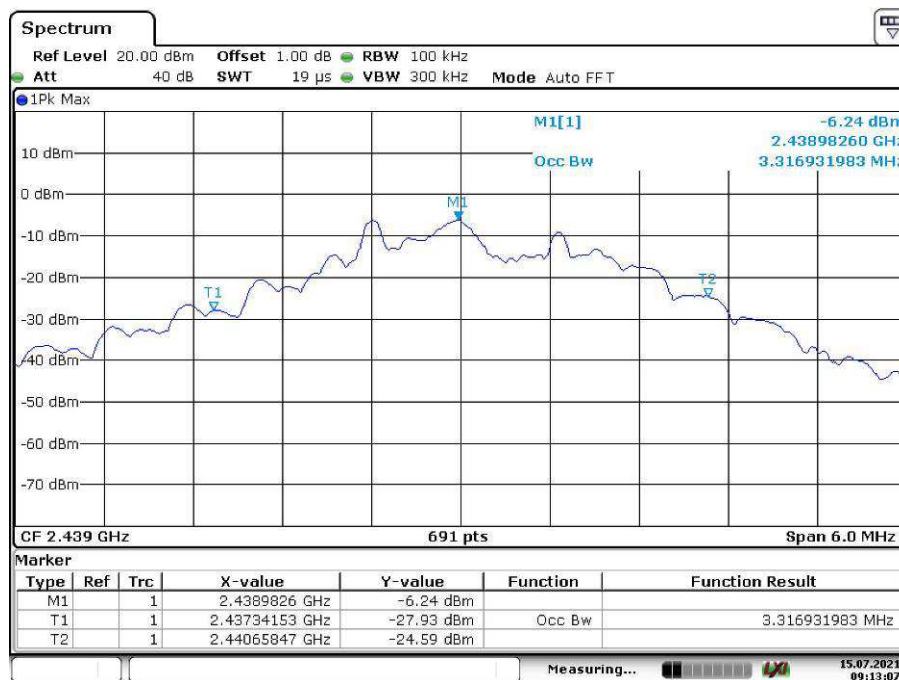
Appendix B.3: Test Results of 99% Bandwidth

2403MHz



Date: 15.JUL.2021 09:11:16

2439MHz



Date: 15.JUL.2021 09:13:07

2479MHz

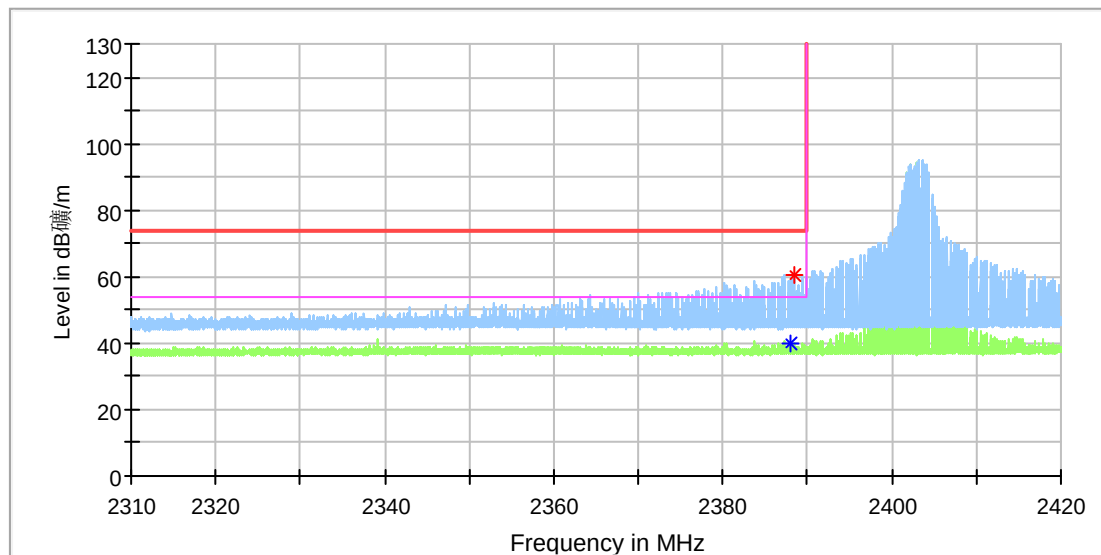


Date: 15.JUL.2021 09:13:41

Appendix B.4: Test Results of Band Edge

EUT Information

EUT Name:	Mouse
Model:	MA204W
Test Mode:	2.4GHz LOW CH
Test Voltage::	Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

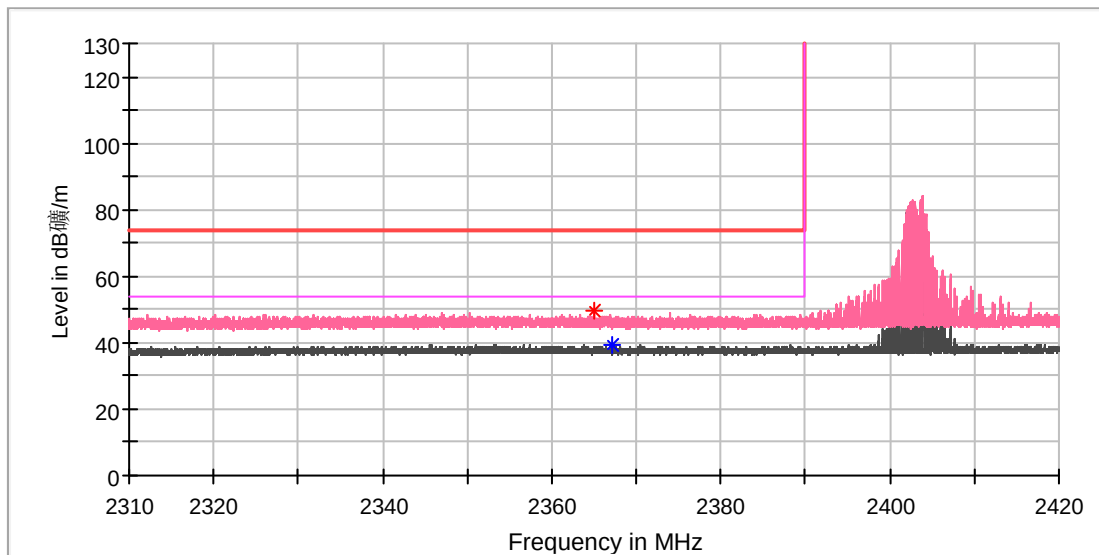


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.063750	---	39.88	54.00	14.12	100.0	H	65.0	7.0
2388.435000	60.54	---	74.00	13.46	100.0	H	2.0	7.0

EUT Information

EUT Name: Mouse
Model: MA204W
Test Mode: 2.4GHz LOW CH
Test Voltage:: Battery
Remark: Temp 23 Humi:45%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin

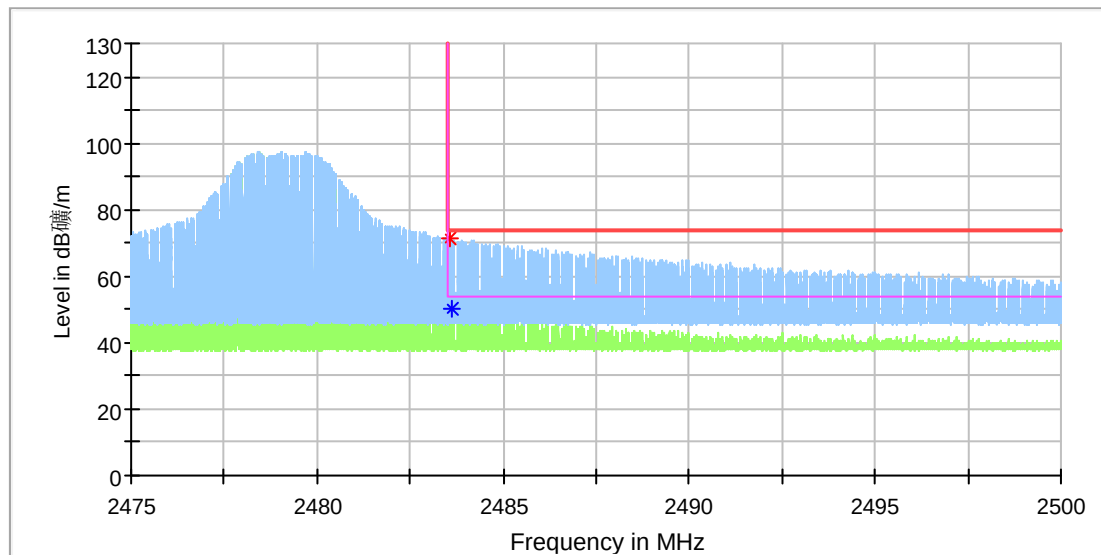


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2364.992250	49.44	---	74.00	24.56	100.0	V	349.0	6.9
2367.233250	---	39.12	54.00	14.88	100.0	V	45.0	6.9

EUT Information

EUT Name:	Mouse
Model:	MA204W
Test Mode:	2.4GHz HIGH CH
Test Voltage::	Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

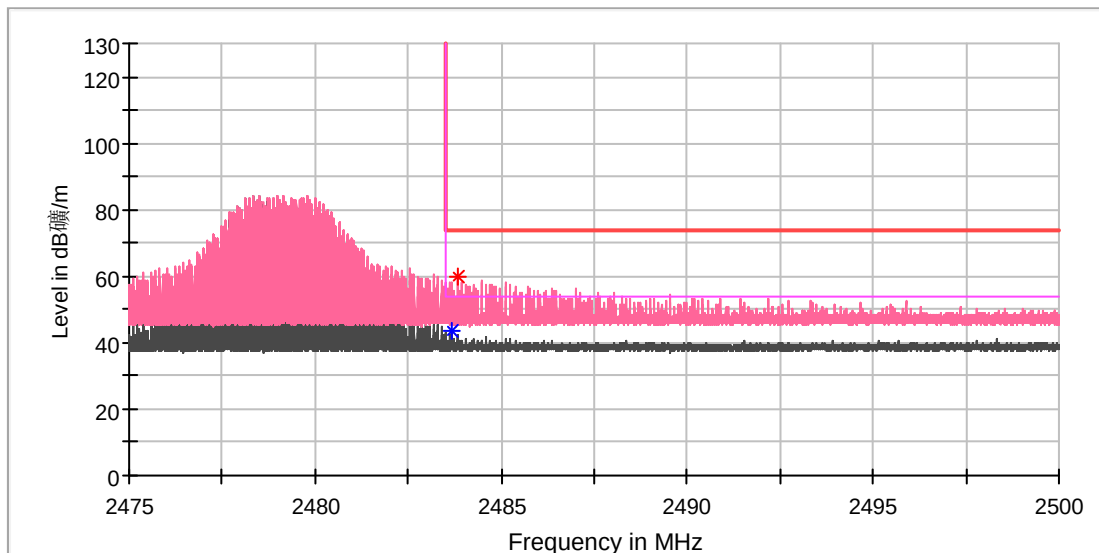


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.583750	71.35	---	74.00	2.65	100.0	H	136.0	7.4
2483.630000	---	50.45	54.00	3.55	100.0	H	0.0	7.4

EUT Information

EUT Name:	Mouse
Model:	MA204W
Test Mode:	2.4GHz HIGH CH
Test Voltage::	Battery
Remark:	Temp 23 Humi:45%
Test Standard:	FCC 15.249
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)
2483.662500	---	43.48	54.00	10.52	100.0	V	241.0	7.4
2483.826250	59.67	---	74.00	14.33	100.0	V	276.0	7.4