

Appendix A: Test Results

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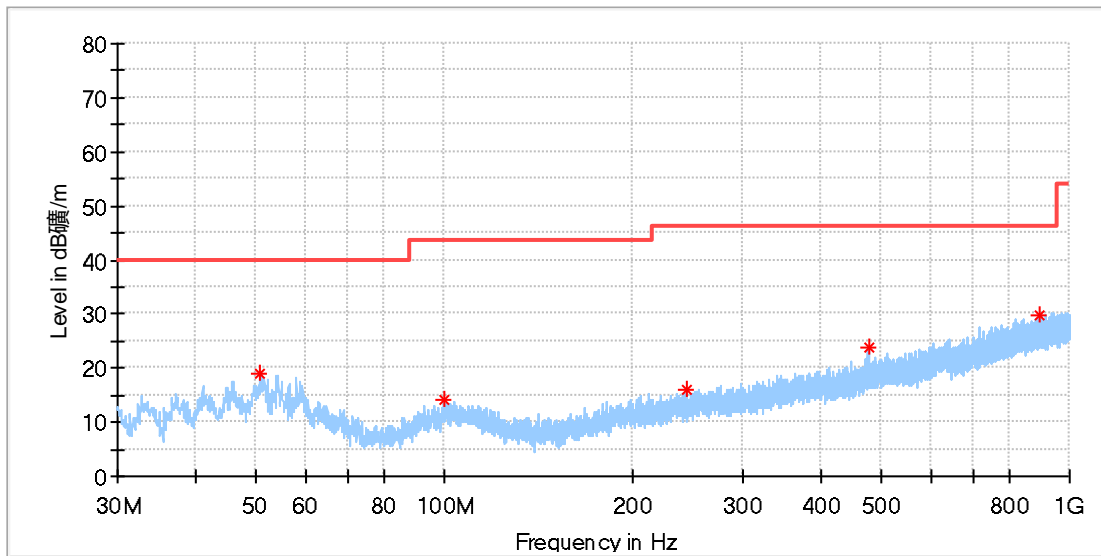
Appendix A.1: Test Results of Field strength of fundamental & harmonics

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.

30MHz - 1GHz

EUT Information

EUT Name:	Wireless Mouse
Model:	MM023(US_CA)
Test Mode:	2.4G M CH
Order No/Sample No:	168413778
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249/RSS-210
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

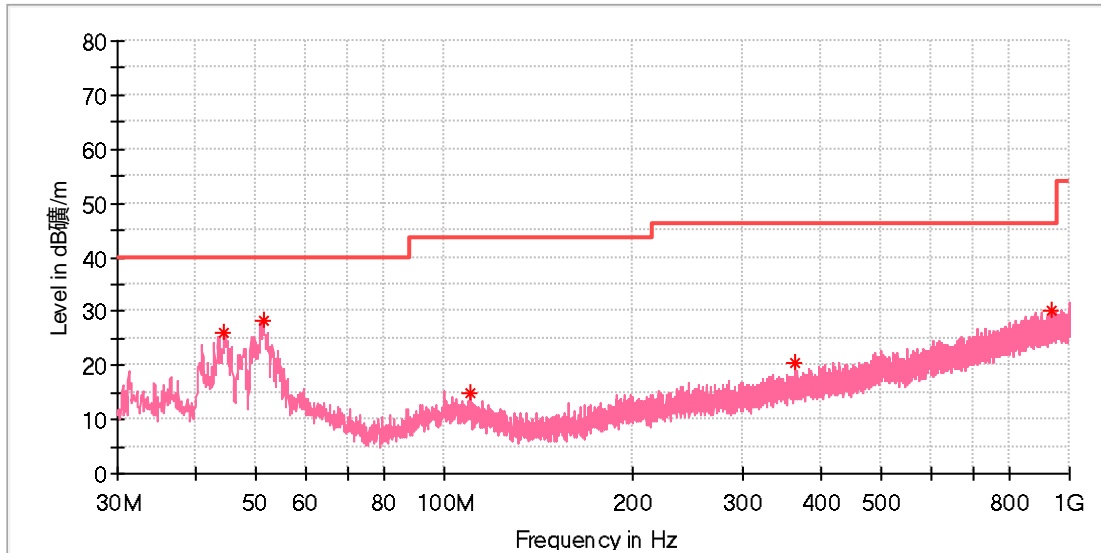


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.855000	18.97	40.00	21.03	100.0	H	226.0	-18.3
99.597500	14.30	43.50	29.20	100.0	H	83.0	-19.1
244.321500	16.03	46.00	29.97	100.0	H	207.0	-17.6
476.248500	23.71	46.00	22.29	100.0	H	139.0	-12.3
892.233000	29.81	46.00	16.19	100.0	H	295.0	-5.0

EUT Information

EUT Name: Wireless Mouse
 Model: MM023(US_CA)
 Test Mode: 2.4G M CH
 Order No/Sample No: 168413778
 Test Voltage: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.249/RSS-210
 Tested By: Kei Zhang
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Critical Freqs

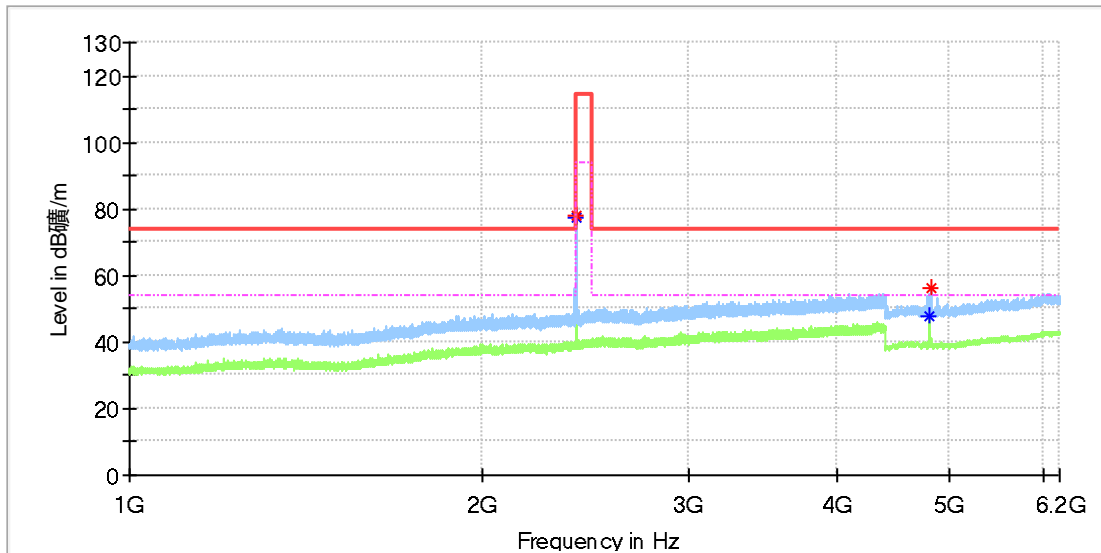
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.501500	26.11	40.00	13.89	100.0	V	338.0	-18.9
51.243000	28.39	40.00	11.61	100.0	V	275.0	-18.3
109.879500	14.77	43.50	28.73	100.0	V	295.0	-19.1
363.825500	20.41	46.00	25.59	100.0	V	303.0	-14.6
938.502000	30.28	46.00	15.72	100.0	V	72.0	-4.6

1GHz - 18GHz

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

EUT Information

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Order No/Sample No:	168413778
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249/RSS-210
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

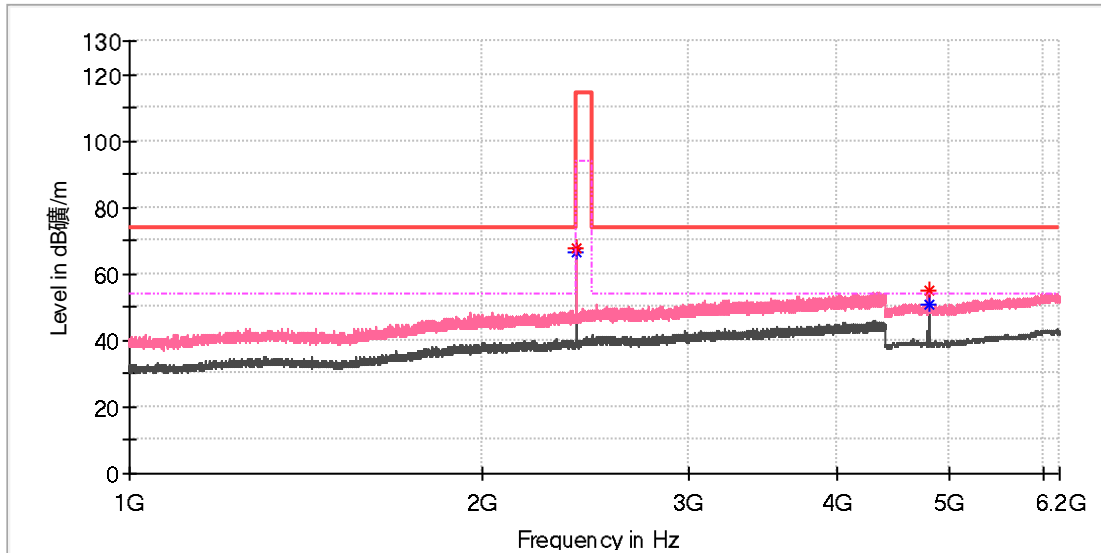


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2402.160000	78.23	---	114.00	35.77	100.0	H	341.0	7.0
2402.160000	---	77.62	94.00	16.38	100.0	H	341.0	7.0
4804.000000	---	47.66	54.00	6.34	100.0	H	57.0	11.8
4813.500000	56.19	---	74.00	17.81	100.0	H	122.0	11.8

EUT Information

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 Test Mode: 2.4G L CH
 Order No/Sample No: 168413778
 Test Voltage: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.249/RSS-210
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

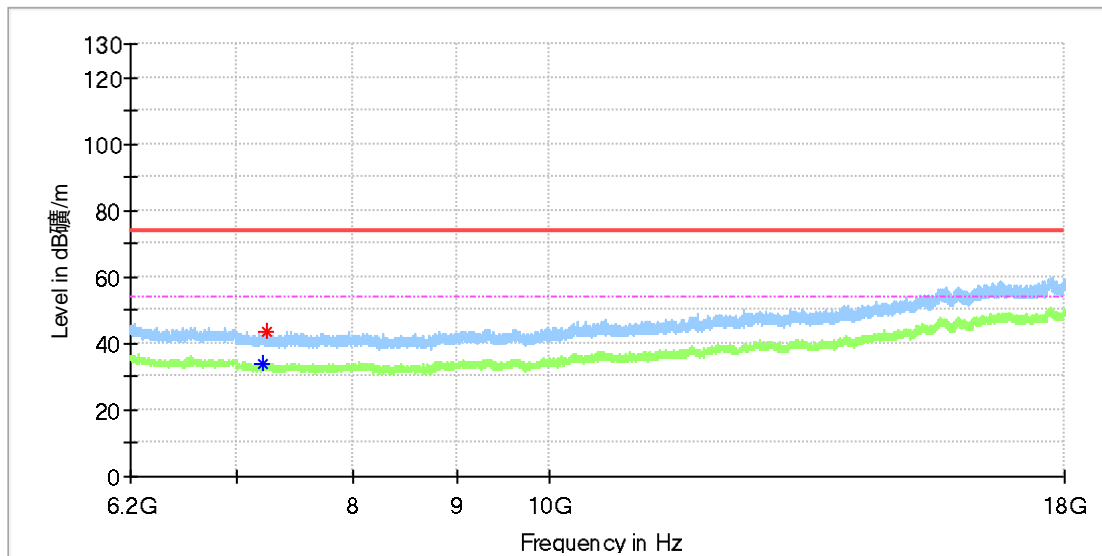


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2401.820000	---	66.77	94.00	27.23	100.0	V	126.0	7.0
2401.820000	67.66	---	114.00	46.34	100.0	V	126.0	7.0
4803.500000	---	50.69	54.00	3.31	100.0	V	0.0	11.8
4803.500000	55.03	---	74.00	18.97	100.0	V	0.0	11.8

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Test Standard:	FCC 15.249/RSS-210
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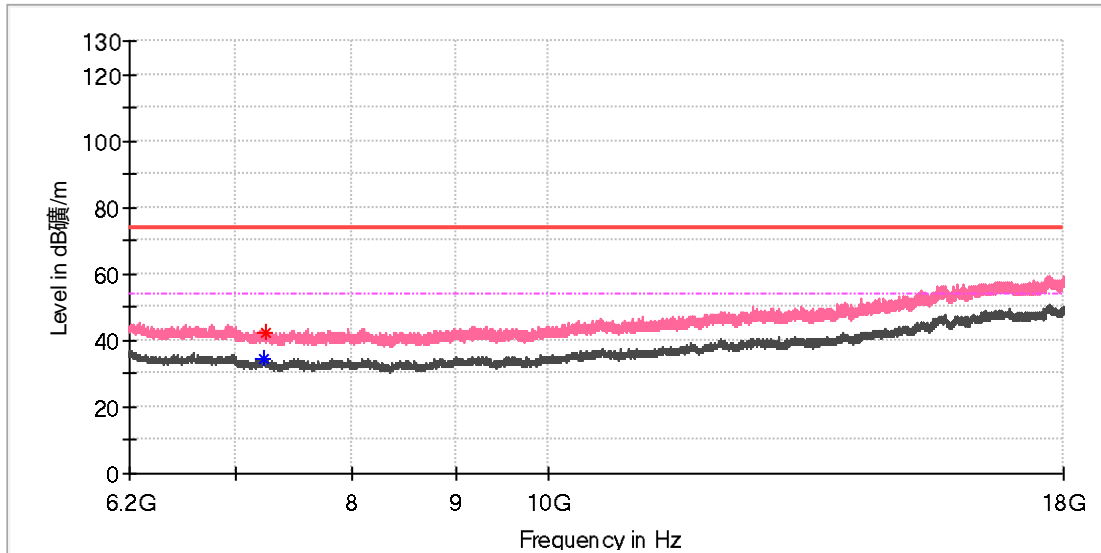


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7203.983333	---	33.98	54.00	20.02	100.0	H	30.0	8.8
7250.691667	43.73	---	74.00	30.27	100.0	H	0.0	8.5

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Tested By:	Kei Zhang
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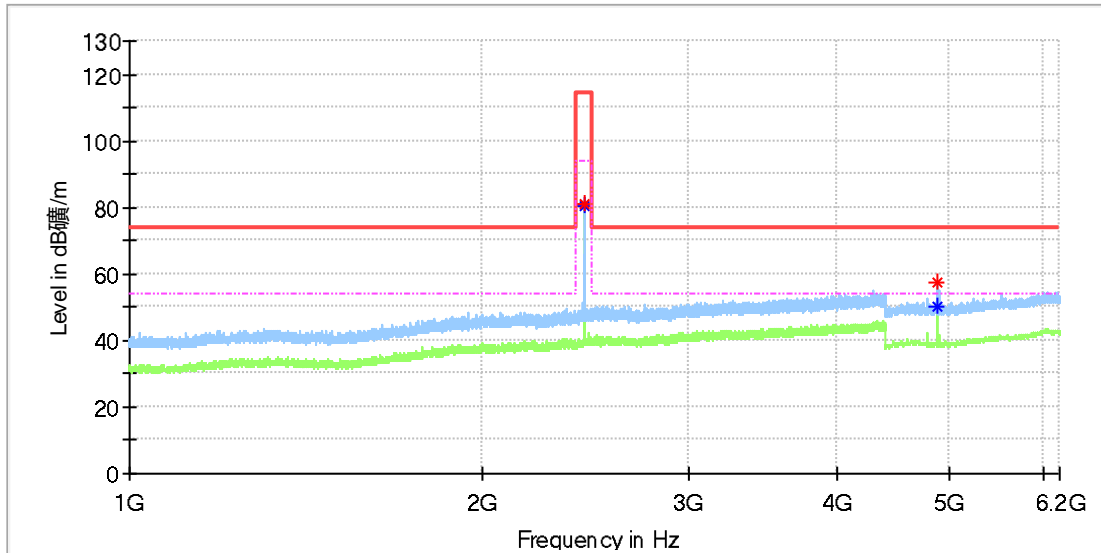


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7228.566667	---	34.28	54.00	19.72	100.0	V	328.0	8.6
7235.941667	42.60	---	74.00	31.40	100.0	V	300.0	8.6

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Test Standard:	FCC 15.249/RSS-210
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

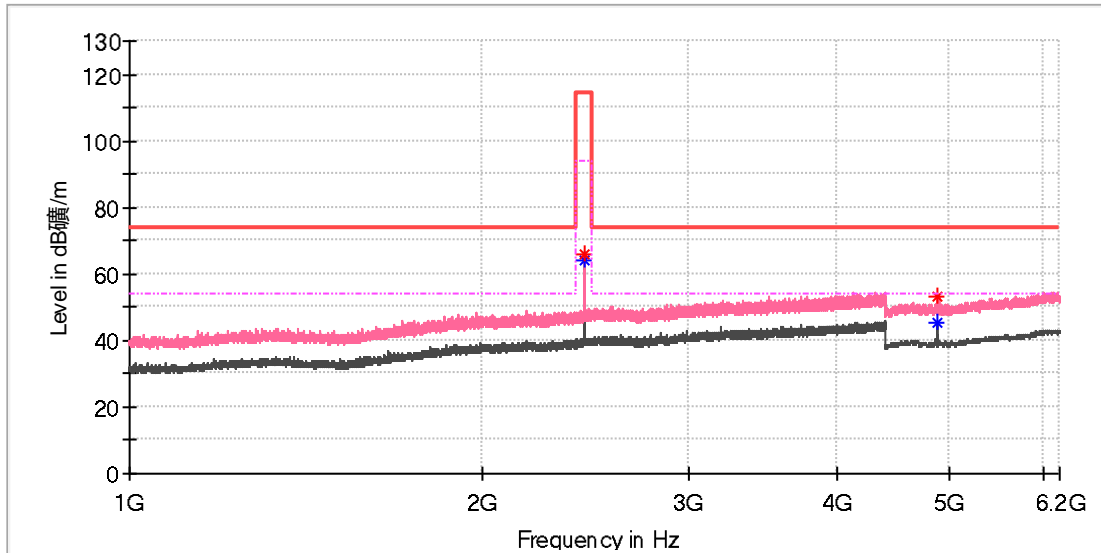


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2440.070000	---	80.34	94.00	13.66	100.0	H	289.0	7.4
2440.410000	81.12	---	114.00	32.88	100.0	H	319.0	7.4
4879.500000	57.45	---	74.00	16.55	100.0	H	314.0	11.8
4880.000000	---	50.43	54.00	3.57	100.0	H	314.0	11.8

EUT Information

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 Order No/Sample No: 168413778
 Test Voltage: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.249/RSS-210
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

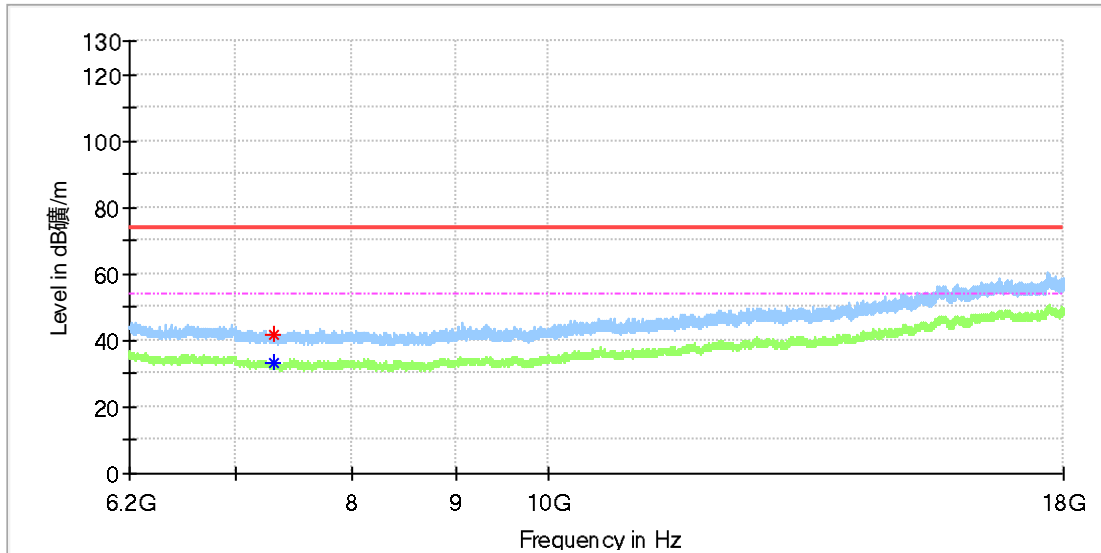


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2440.070000	---	64.39	94.00	29.61	100.0	V	153.0	7.4
2440.070000	65.71	---	114.00	48.29	100.0	V	153.0	7.4
4879.000000	53.06	---	74.00	20.94	100.0	V	190.0	11.8
4879.000000	---	45.54	54.00	8.46	100.0	V	190.0	11.8

EUT Information

EUT Name: Wireless Mouse
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 Test Mode: 2.4G M CH
 Order No/Sample No: 168413778
 Test Voltage: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.249/RSS-210
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

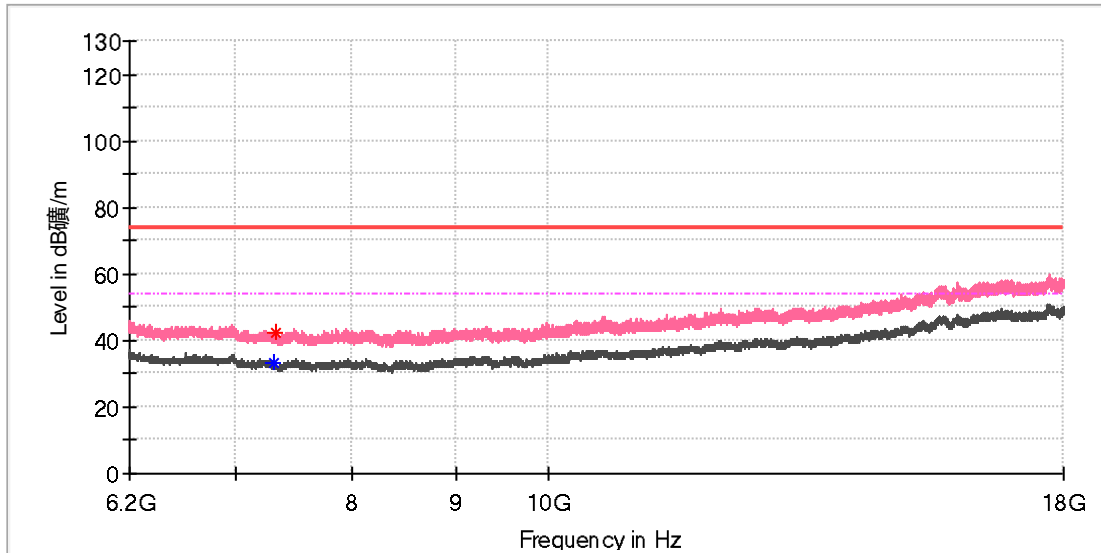


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7311.658333	41.83	---	74.00	32.17	100.0	H	270.0	8.2
7311.658333	---	33.41	54.00	20.59	100.0	H	270.0	8.2

EUT Information

EUT Name: Wireless Mouse
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 Order No/Sample No: 168413778
 Test Voltage: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.249/RSS-210
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

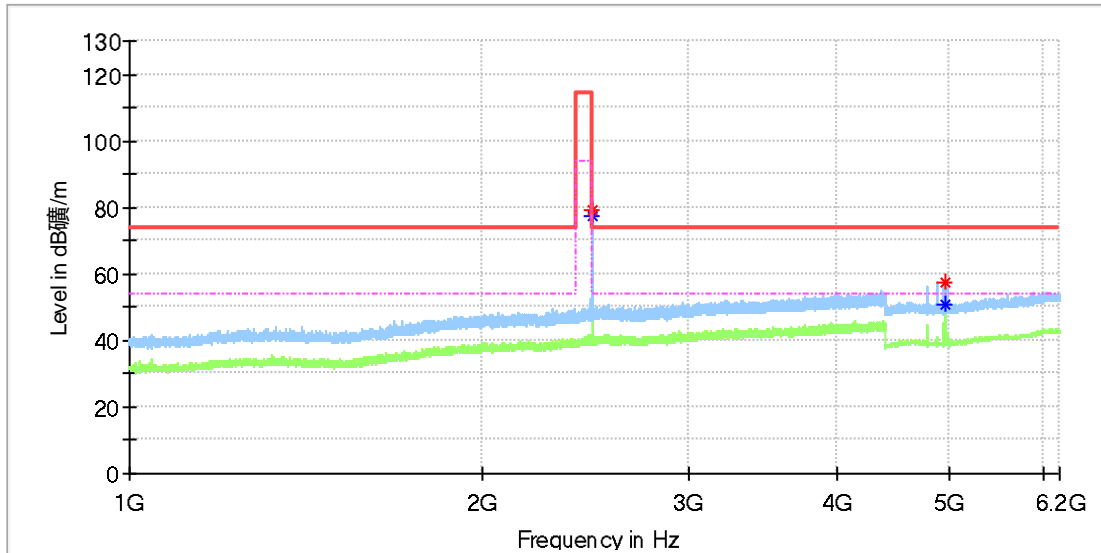


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7302.316667	---	33.55	54.00	20.45	100.0	V	0.0	8.3
7325.425000	42.32	---	74.00	31.68	100.0	V	66.0	8.2

EUT Information

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Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249/RSS-210
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

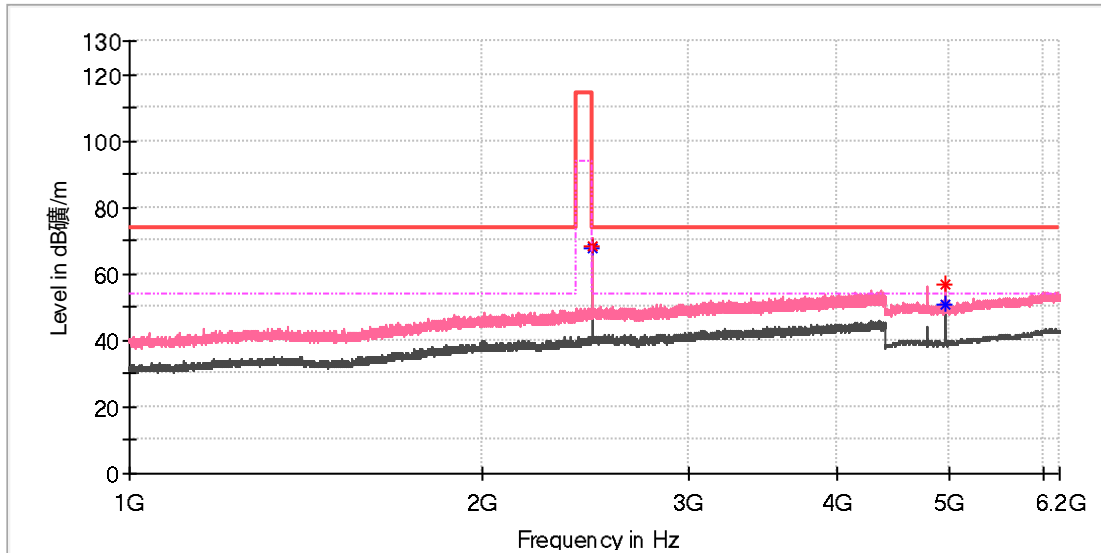


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.360000	79.04	---	114.00	34.96	100.0	H	145.0	7.4
2480.360000	---	77.41	94.00	16.59	100.0	H	145.0	7.4
4959.500000	57.47	---	74.00	16.53	100.0	H	309.0	11.8
4960.500000	---	50.54	54.00	3.46	100.0	H	248.0	11.8

EUT Information

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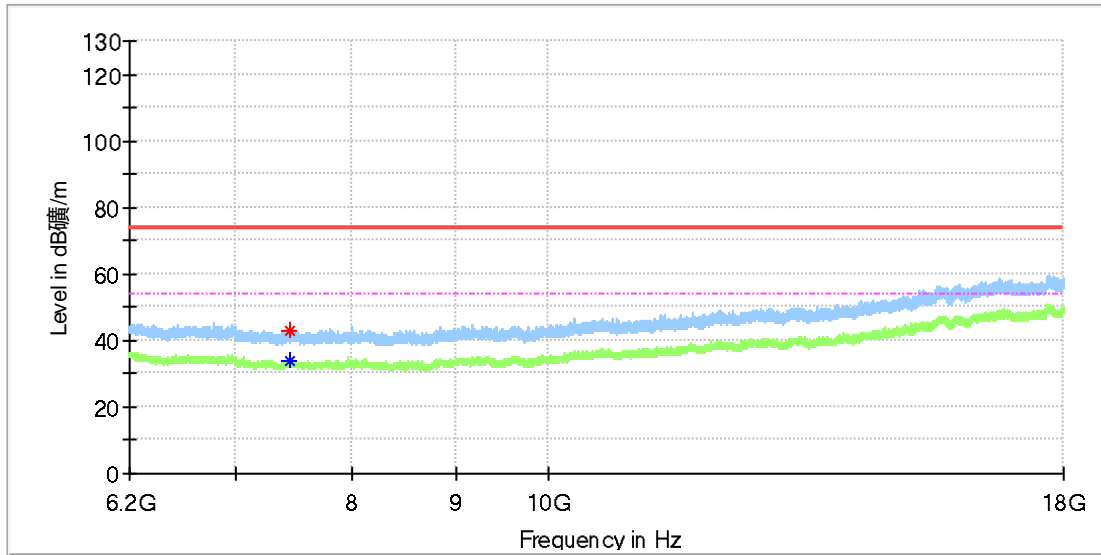


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2480.020000	---	67.88	94.00	26.12	100.0	V	192.0	7.4
2480.360000	68.48	---	114.00	45.52	100.0	V	192.0	7.4
4960.000000	---	50.99	54.00	3.01	100.0	V	0.0	11.8
4960.500000	57.09	---	74.00	16.91	100.0	V	0.0	11.8

EUT Information

EUT Name: Wireless Mouse
 Model: MM023(US_CA)
 Test Mode: 2.4G H CH
 Order No/Sample No: 168413778
 Test Voltage: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.249/RSS-210
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

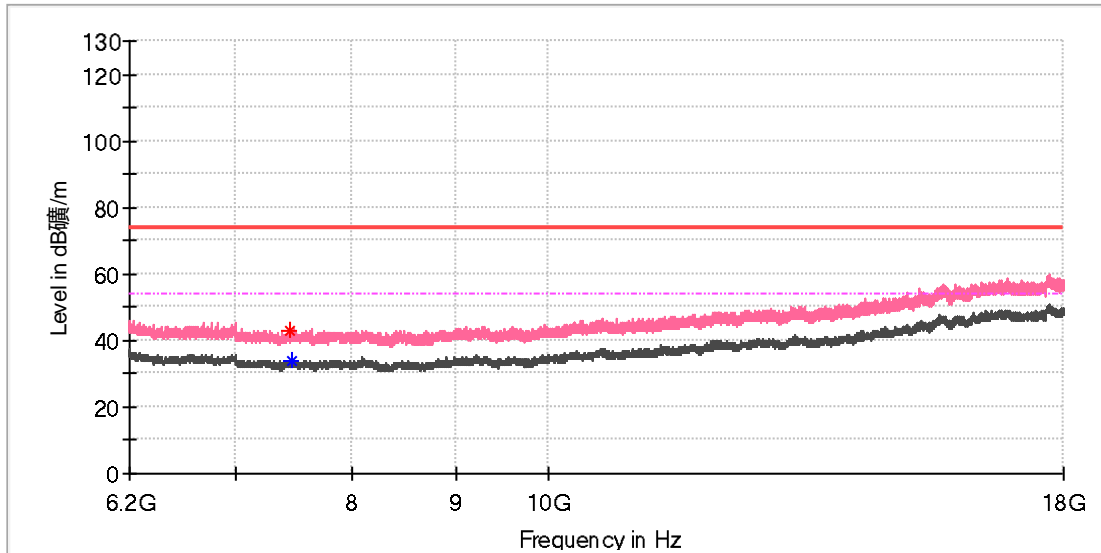


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	---	33.97	54.00	20.03	100.0	H	210.0	8.4
7452.275000	42.78	---	74.00	31.22	100.0	H	282.0	8.5

EUT Information

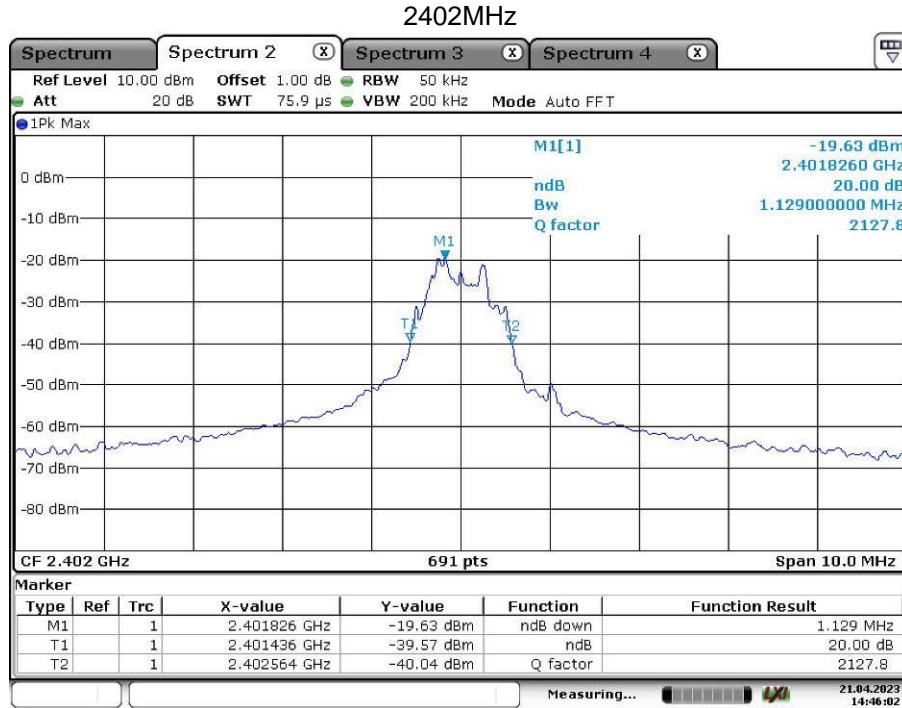
EUT Name: Wireless Mouse
 Model: MM023(US_CA)
 Test Mode: 2.4G H CH
 Order No/Sample No: 168413778
 Test Voltage: Battery
 Remark: Temp 22 Humi:55%
 Test Standard: FCC 15.249/RSS-210
 Tested By: Kei Zhang
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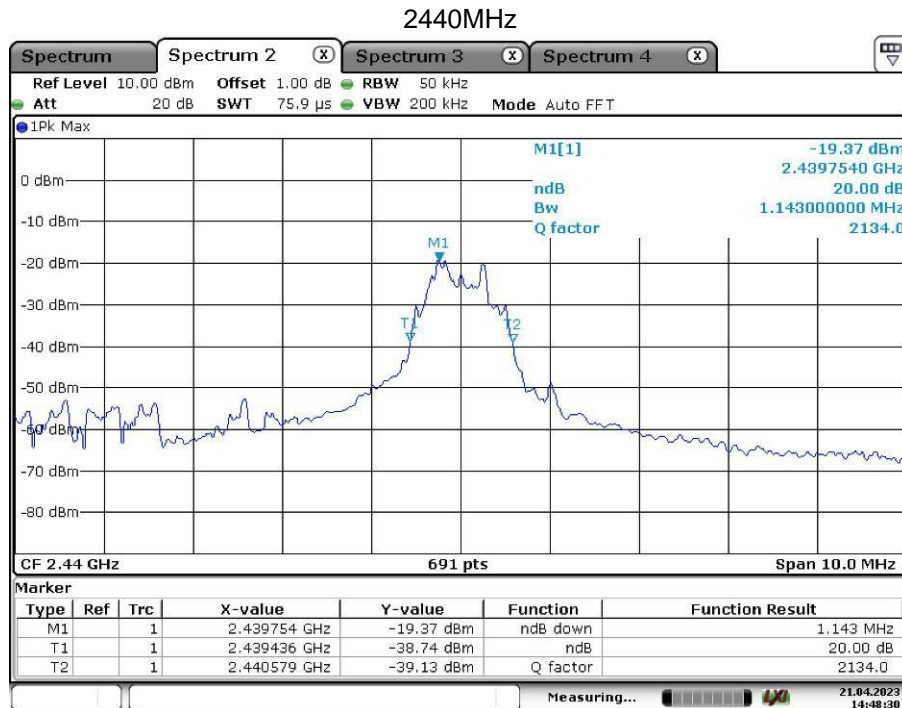
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7443.425000	43.07	---	74.00	30.93	100.0	V	218.0	8.5
7468.008333	---	33.91	54.00	20.09	100.0	V	18.0	8.6

Appendix A.2: Test Results of 20dB Bandwidth

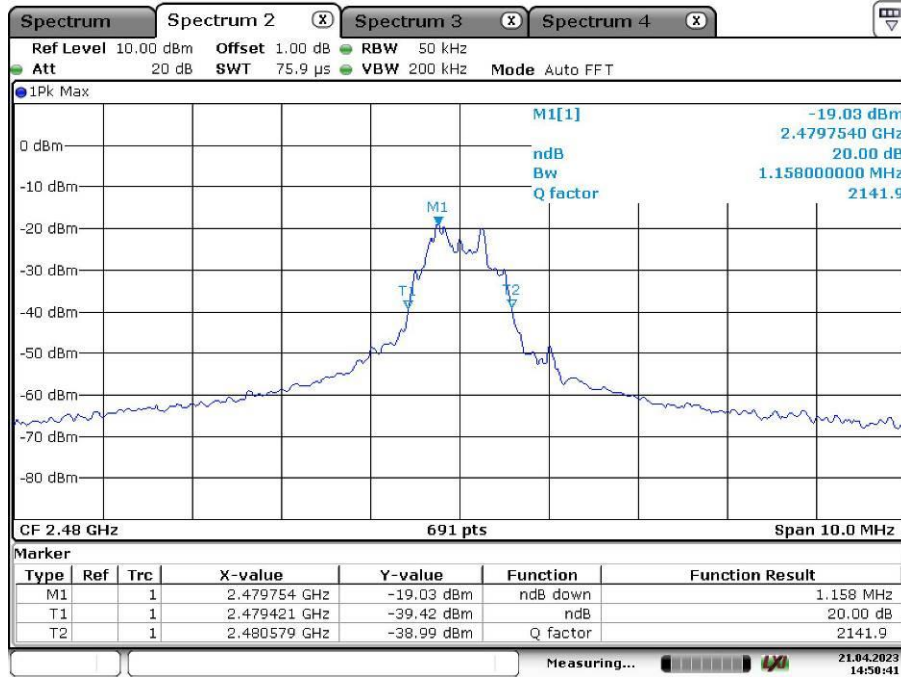


Date: 21.APR.2023 14:46:02



Date: 21.APR.2023 14:48:30

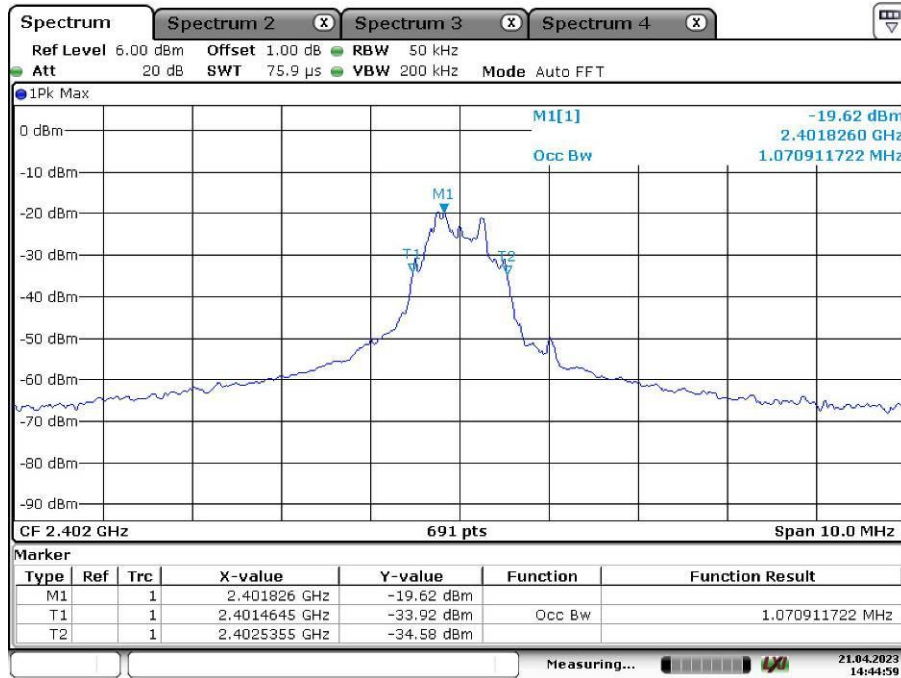
2480MHz



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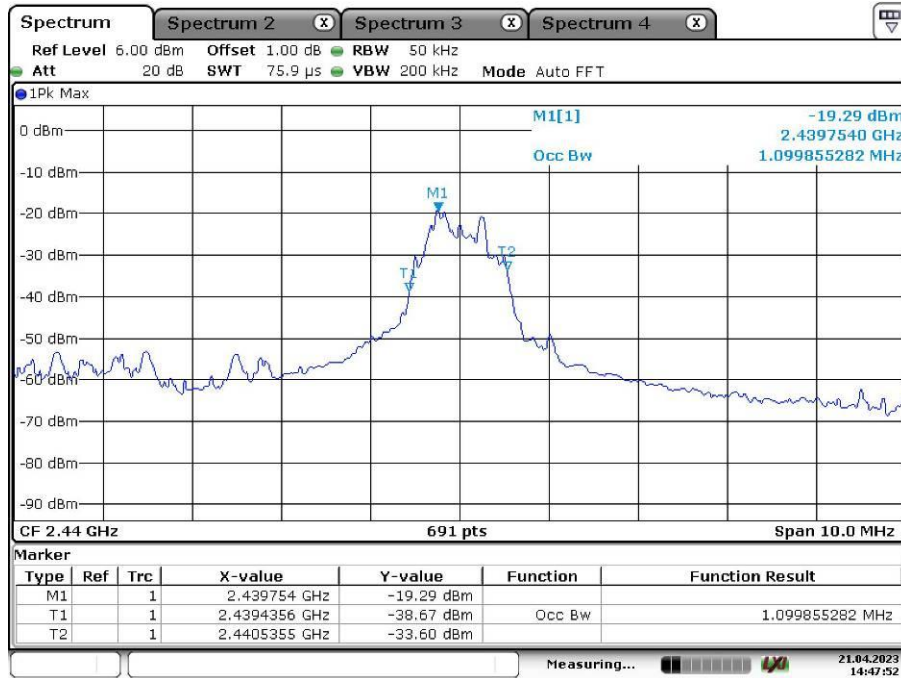
Appendix A.3: Test Results of 99% Bandwidth

2402MHz



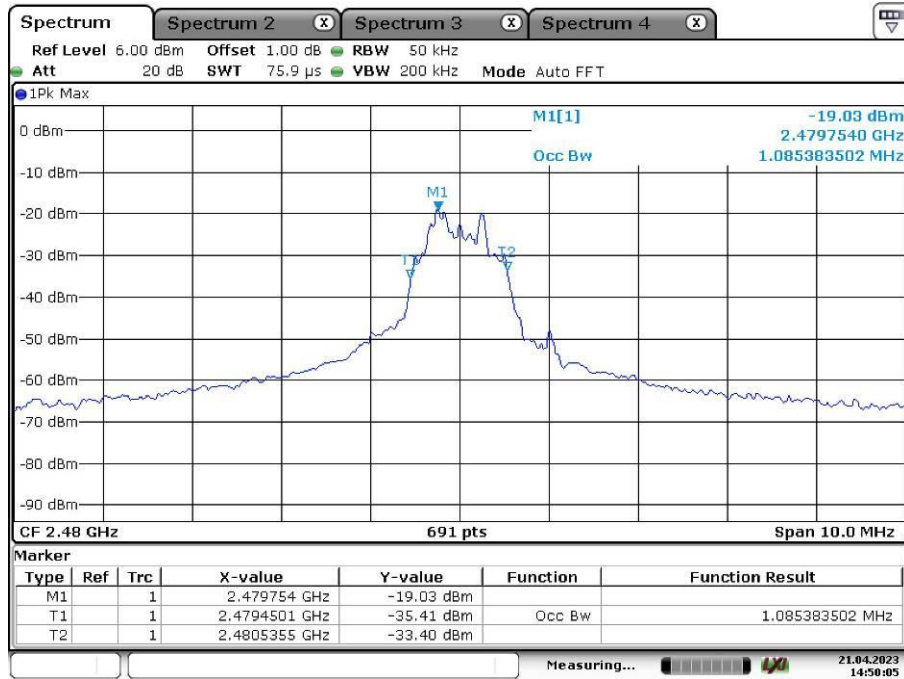
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2440MHz



Date: 21.APR.2023 14:47:52

2480MHz

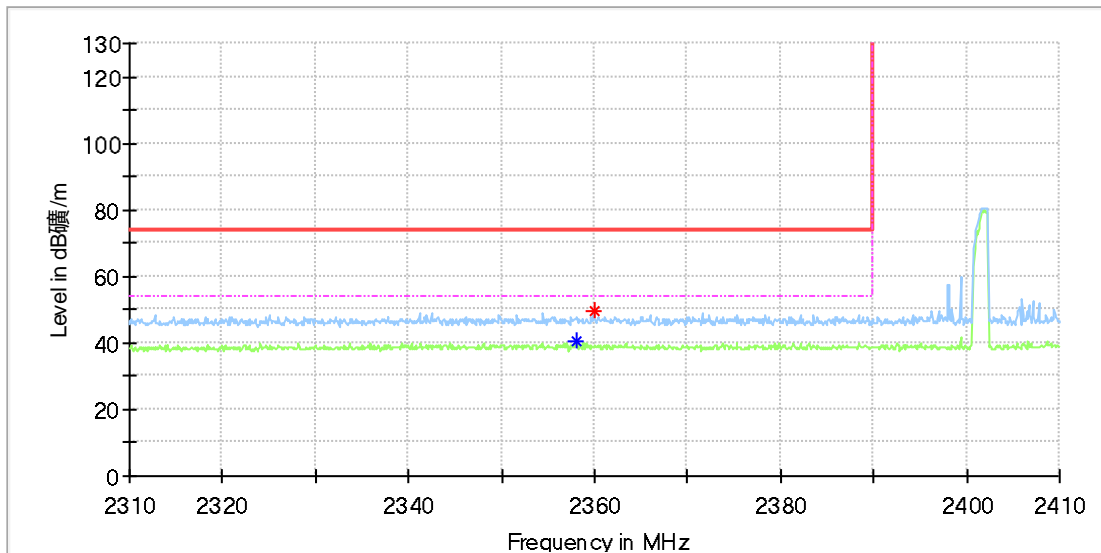


Date: 21.APR.2023 14:50:05

Appendix A.4: Test Results of Band Edge

EUT Information

EUT Name:	Wireless Mouse
Model:	MM023(US_CA)
Test Mode:	2.4G L CH
Order No/Sample No:	168413778
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249/RSS-210
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

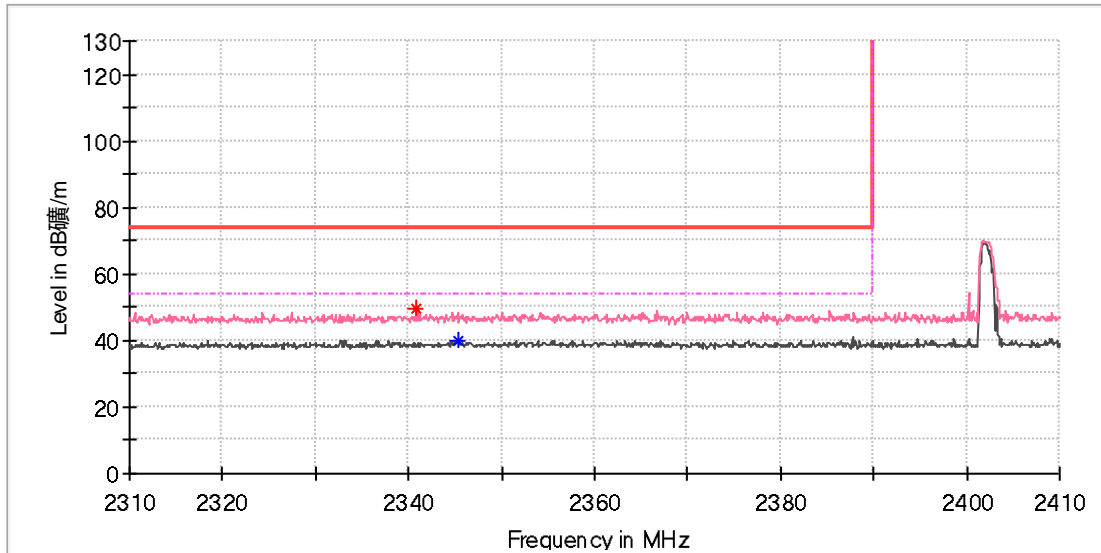


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2358.100000	---	40.45	54.00	13.55	100.0	H	202.0	6.9
2359.900000	49.75	---	74.00	24.25	100.0	H	0.0	6.9

EUT Information

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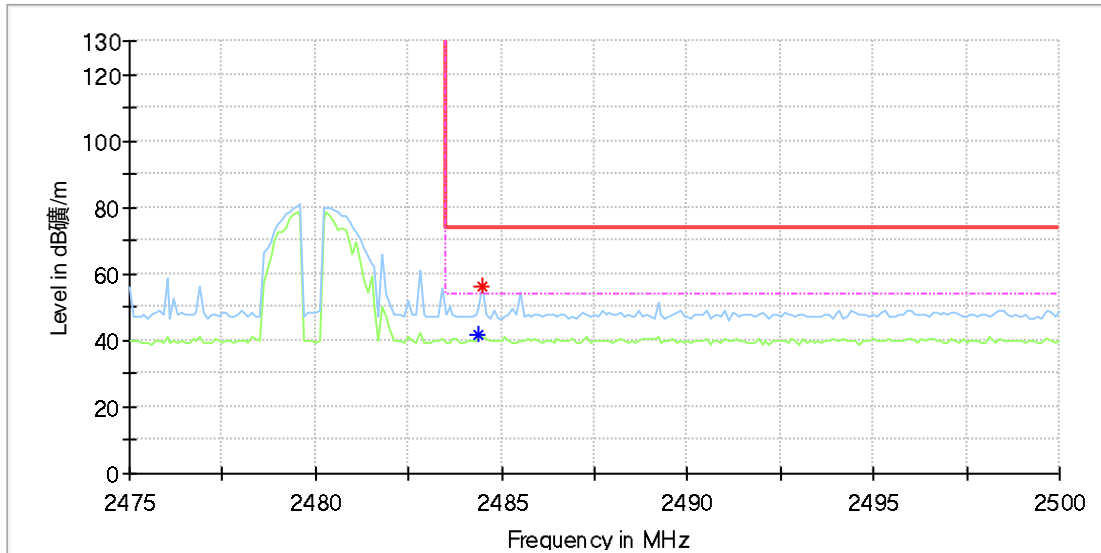


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2340.900000	49.64	---	74.00	24.36	100.0	V	0.0	6.8
2345.300000	---	40.00	54.00	14.00	100.0	V	299.0	6.9

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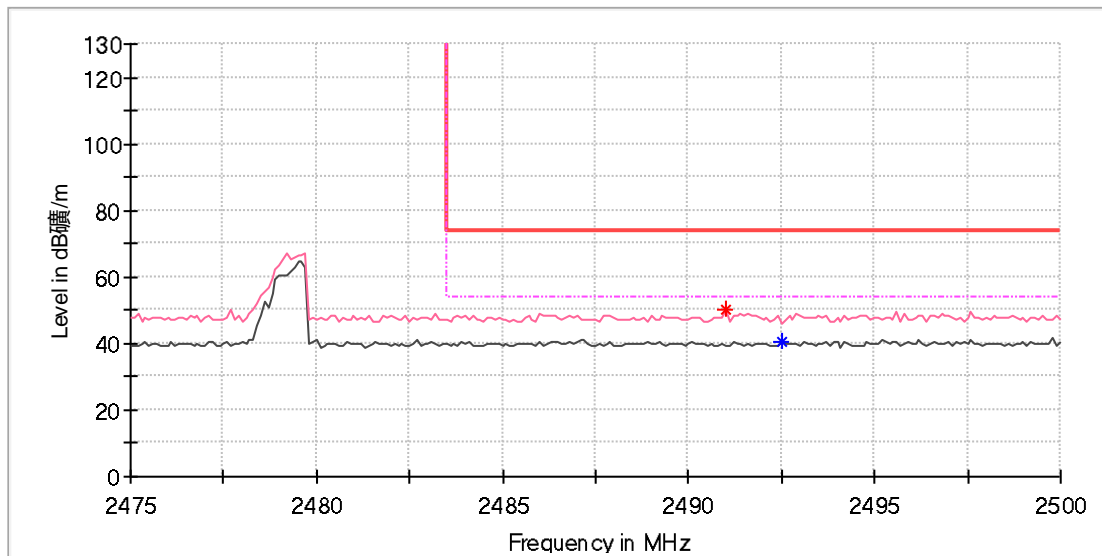


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.400000	---	41.43	54.00	12.57	100.0	H	327.0	7.4
2484.500000	56.51	---	74.00	17.49	100.0	H	133.0	7.4

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Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2491.000000	49.92	---	74.00	24.08	100.0	V	128.0	7.4
2492.500000	---	40.64	54.00	13.36	100.0	V	262.0	7.4