

Appendix A: Test Results

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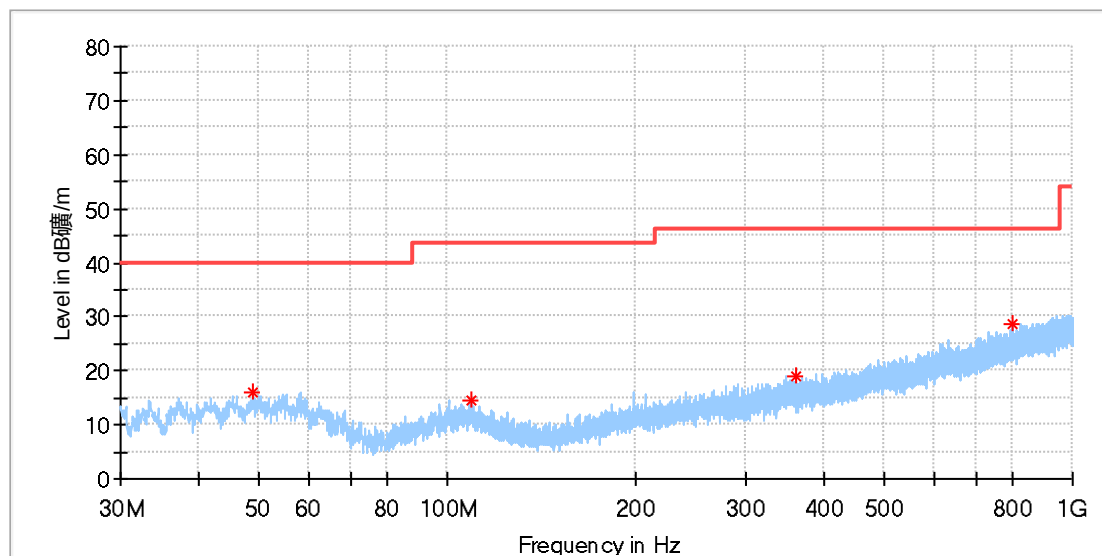
Appendix A.1: Test Results of Field strength of fundamental & harmonics

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:	Lenovo 150 Wireless Mouse
Model:	MS-370OR
Test Mode:	2.4G Mid CH
Order No/Sample No:	168432015/A003397684-002
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

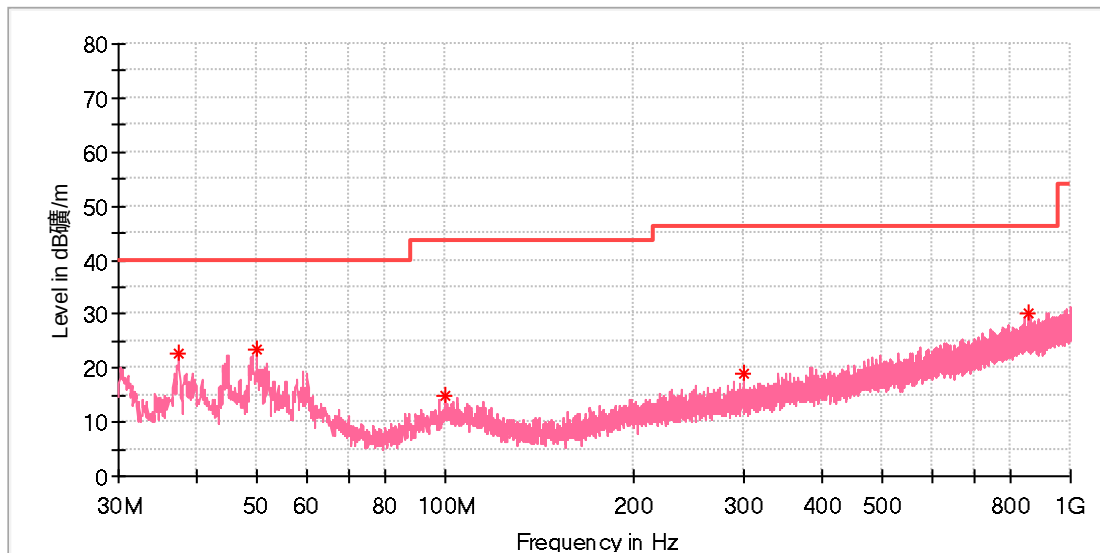
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
48.963500	16.08	40.00	23.92	100.0	H	87.0	-18.3
109.491500	14.35	43.50	29.15	100.0	H	1.0	-19.0
360.285000	19.06	46.00	26.94	100.0	H	0.0	-14.6
799.695000	28.52	46.00	17.48	100.0	H	130.0	-6.4

Final Result

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

EUT Information

EUT Name: Lenovo 150 Wireless Mouse
Model: MS-370OR
Test Mode: 2.4G Mid CH
Order No/Sample No: 168432015/A003397684-002
Test Voltage: Battery
Remark: Temp 22 Humi:55%
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)
37.517500	22.60	40.00	17.40	100.0	V	55.0	-21.0
49.982000	23.35	40.00	16.65	100.0	V	157.0	-18.3
99.840000	14.80	43.50	28.70	100.0	V	178.0	-19.0
299.175000	18.85	46.00	27.15	100.0	V	302.0	-16.3
856.682500	30.16	46.00	15.84	100.0	V	112.0	-5.4

Final Result

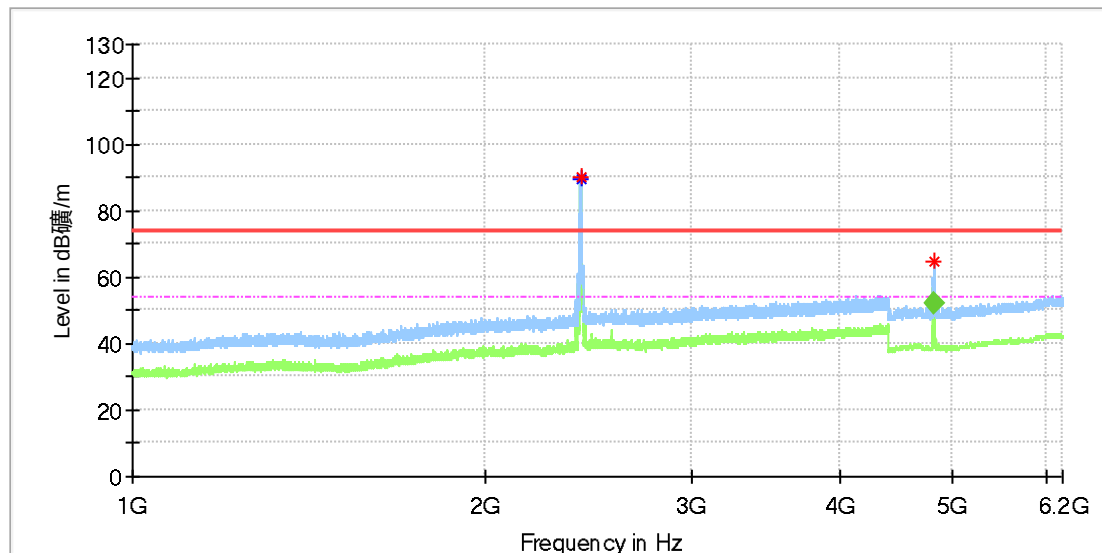
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	Lenovo 150 Wireless Mouse
Model:	MS-370OR
Test Mode:	2.4G L CH
Order No/Sample No:	168432015/A003397684-002
Test Voltage:	Battery
Remark:	Temp 22 Humi:55%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

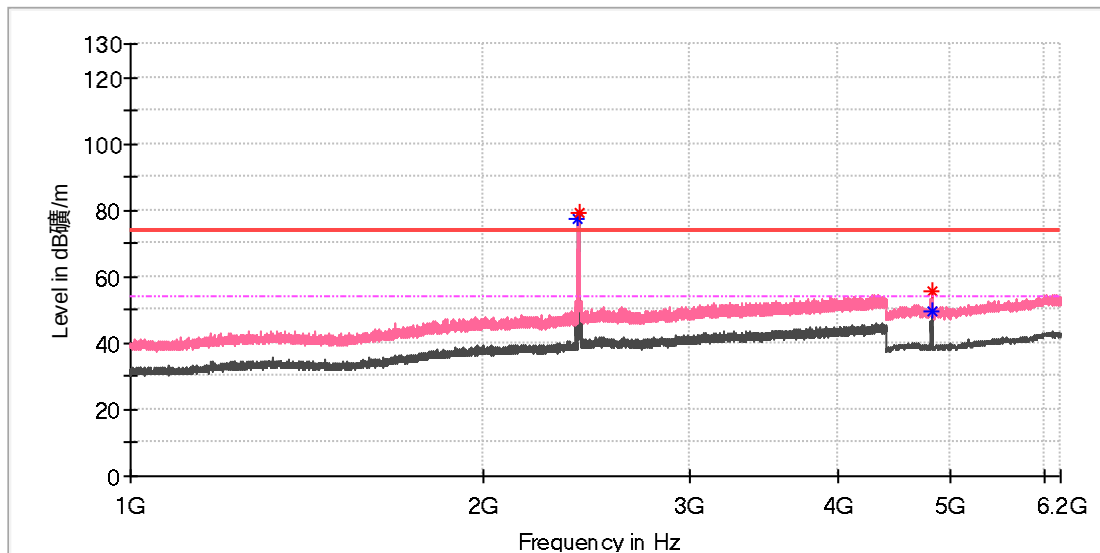
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2408.450000	---	89.71	94.00	4.29	100.0	H	149.0	7.1
2408.620000	90.15	---	114.00	23.85	100.0	H	149.0	7.1
4817.000000	64.53	---	74.00	9.47	100.0	H	0.0	11.8

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4817.111111	51.84	54.00	2.16	100.0	H	-1.0	11.8

EUT Information

EUT Name: Lenovo 150 Wireless Mouse
Model: MS-370OR
Test Mode: 2.4G L CH
Order No/Sample No: 168432015/A003397684-002
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

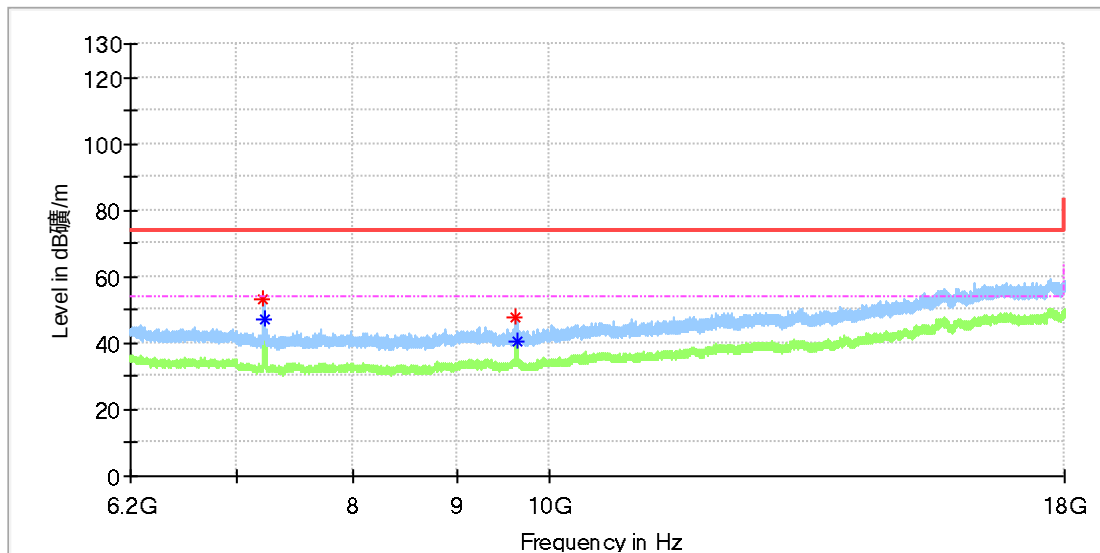
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2408.110000	---	77.24	94.00	16.76	150.0	V	31.0	7.1
2408.450000	79.22	---	114.00	34.78	150.0	V	31.0	7.1
4817.000000	---	49.47	54.00	4.53	100.0	V	334.0	11.8
4817.000000	55.86	---	74.00	18.14	100.0	V	334.0	11.8

Final_Result

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

EUT Information

EUT Name: Lenovo 150 Wireless Mouse
Model: MS-3700R
Test Mode: 2.4G L CH
Order No/Sample No: 168432015/A003397684-002
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

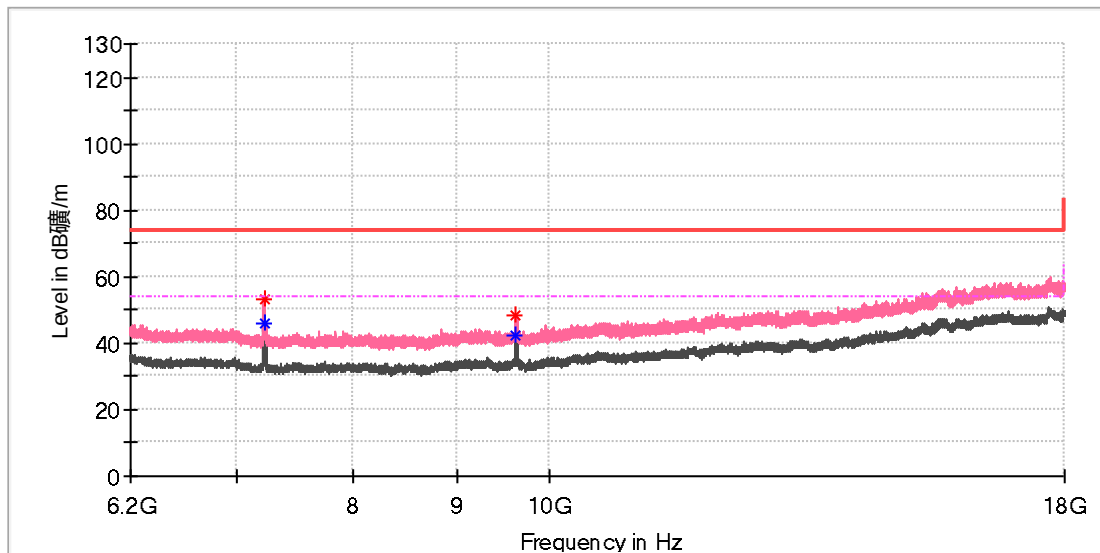
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7216.766667	53.16	---	74.00	20.84	100.0	H	324.0	8.7
7218.733333	---	47.40	54.00	6.60	100.0	H	324.0	8.7
9624.950000	47.60	---	74.00	26.40	100.0	H	186.0	10.4
9641.175000	---	40.79	54.00	13.21	100.0	H	186.0	10.4

Final Result

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

EUT Information

EUT Name: Lenovo 150 Wireless Mouse
Model: MS-3700R
Test Mode: 2.4G L CH
Order No/Sample No: 168432015/A003397684-002
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

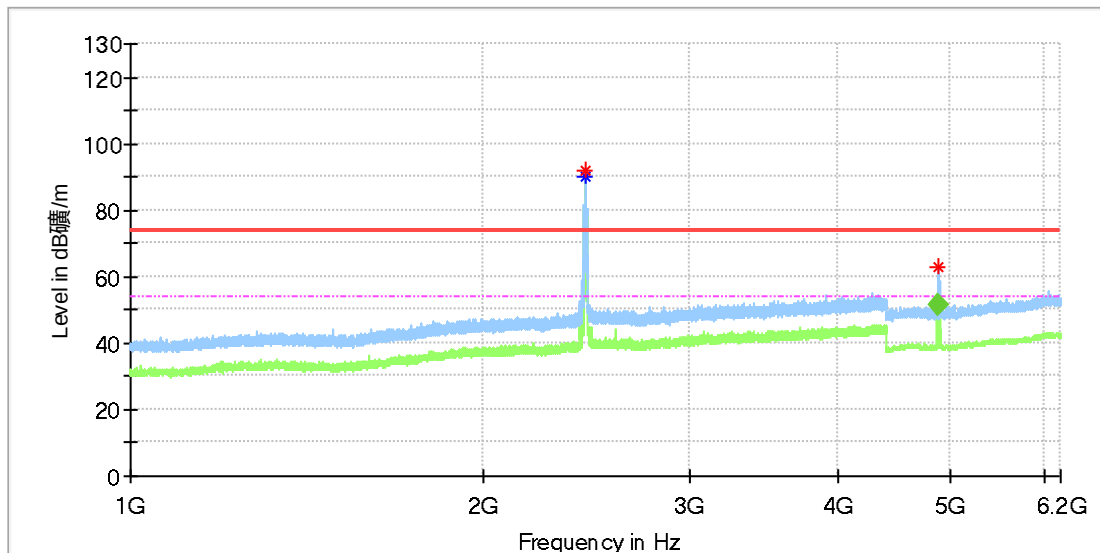
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7225.616667	---	45.96	54.00	8.04	100.0	V	248.0	8.7
7228.075000	53.26	---	74.00	20.74	100.0	V	248.0	8.7
9621.016667	---	42.08	54.00	11.92	100.0	V	84.0	10.4
9624.950000	48.13	---	74.00	25.87	100.0	V	84.0	10.4

Final Result

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

EUT Information

EUT Name: Lenovo 150 Wireless Mouse
Model: MS-3700R
Test Mode: 2.4G Mid CH
Order No/Sample No: 168432015/A003397684-002
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

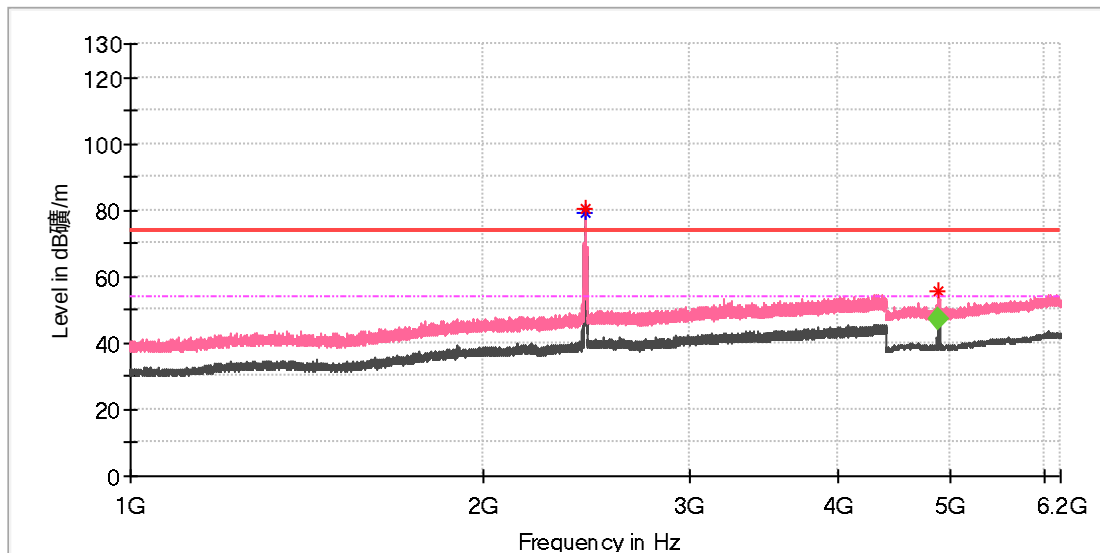
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2440.070000	---	90.04	94.00	3.96	100.0	H	45.0	7.4
2440.410000	92.04	---	114.00	21.96	100.0	H	45.0	7.4
4881.000000	62.85	---	74.00	11.15	100.0	H	184.0	11.8

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4881.127778	51.26	54.00	2.74	105.0	H	179.0	11.8

EUT Information

EUT Name: Lenovo 150 Wireless Mouse
Model: MS-3700R
Test Mode: 2.4G Mid CH
Order No/Sample No: 168432015/A003397684-002
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

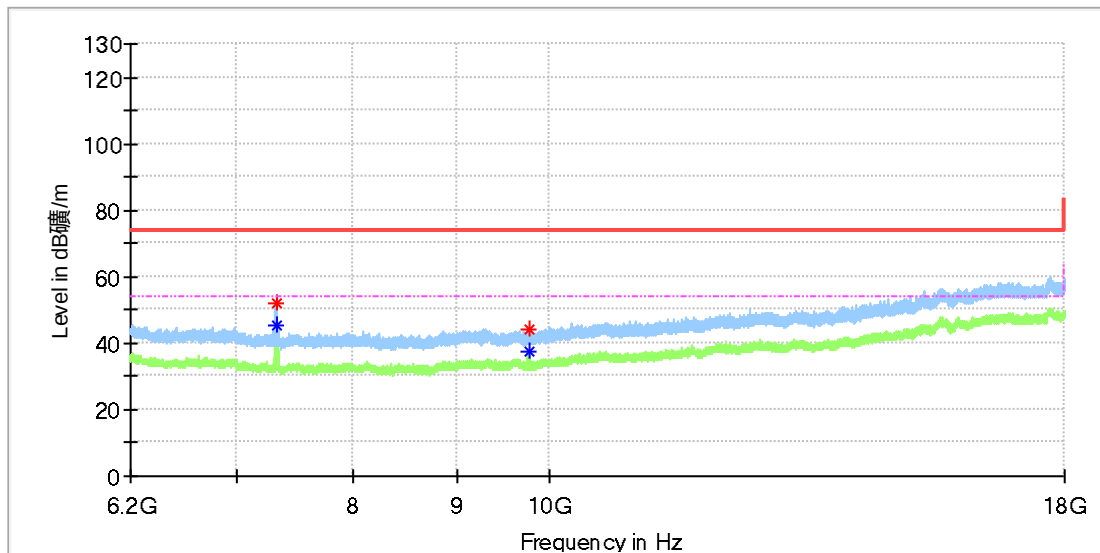
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2440.410000	---	79.06	94.00	14.94	100.0	V	0.0	7.4
2440.580000	80.59	---	114.00	33.41	100.0	V	328.0	7.4
4881.000000	55.76	---	74.00	18.24	100.0	V	82.0	11.8

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4880.977778	47.26	54.00	6.74	100.0	V	81.0	11.8

EUT Information

EUT Name: Lenovo 150 Wireless Mouse
Model: MS-3700R
Test Mode: 2.4G Mid CH
Order No/Sample No: 168432015/A003397684-002
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

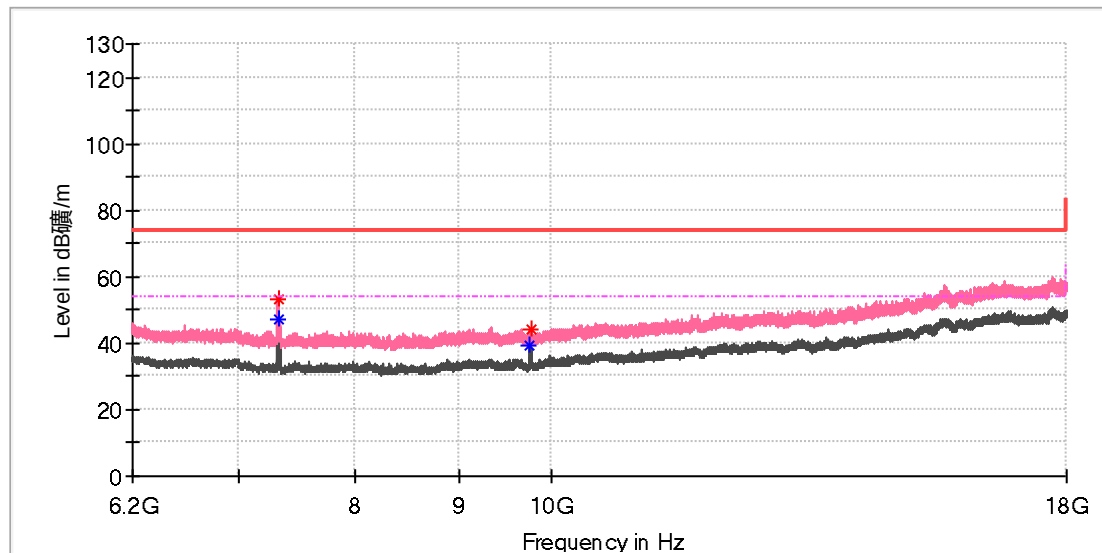
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7321.491667	---	45.31	54.00	8.69	100.0	H	319.0	8.2
7327.883333	51.94	---	74.00	22.06	100.0	H	319.0	8.1
9768.516667	---	37.75	54.00	16.25	100.0	H	198.0	10.4
9769.008333	44.33	---	74.00	29.67	100.0	H	224.0	10.4

Final Result

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

EUT Information

EUT Name: Lenovo 150 Wireless Mouse
Model: MS-3700R
Test Mode: 2.4G Mid CH
Order No/Sample No: 168432015/A003397684-002
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

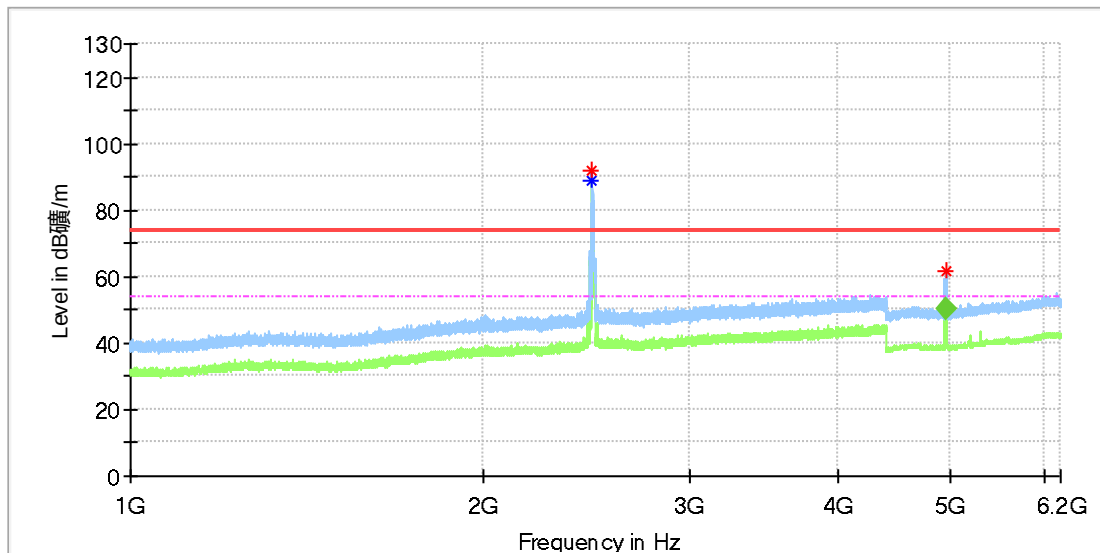
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7323.950000	53.46	---	74.00	20.54	100.0	V	240.0	8.2
7324.441667	---	47.36	54.00	6.64	100.0	V	240.0	8.2
9755.733333	---	39.01	54.00	14.99	100.0	V	57.0	10.4
9769.008333	44.27	---	74.00	29.73	100.0	V	105.0	10.4

Final_Result

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

EUT Information

EUT Name: Lenovo 150 Wireless Mouse
Model: MS-3700R
Test Mode: 2.4G H CH
Order No/Sample No: 168432015/A003397684-002
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

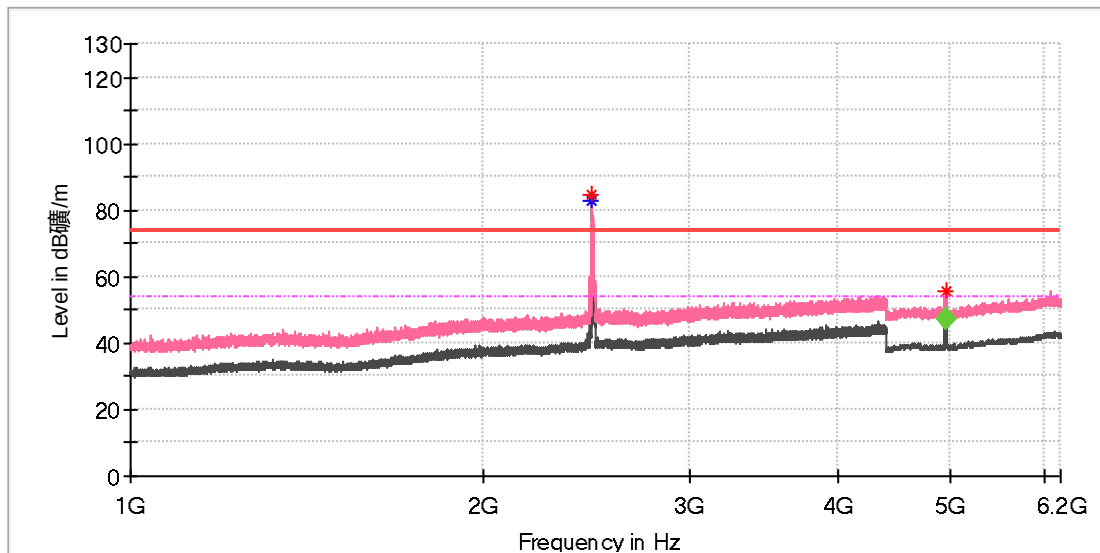
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2474.580000	---	89.08	94.00	4.92	100.0	H	179.0	7.4
2474.580000	92.10	---	114.00	21.90	100.0	H	179.0	7.4
4949.000000	61.76	---	74.00	12.24	100.0	H	158.0	11.8

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4948.933333	50.12	54.00	3.88	100.0	H	157.0	11.8

EUT Information

EUT Name: Lenovo 150 Wireless Mouse
Model: MS-3700R
Test Mode: 2.4G H CH
Order No/Sample No: 168432015/A003397684-002
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

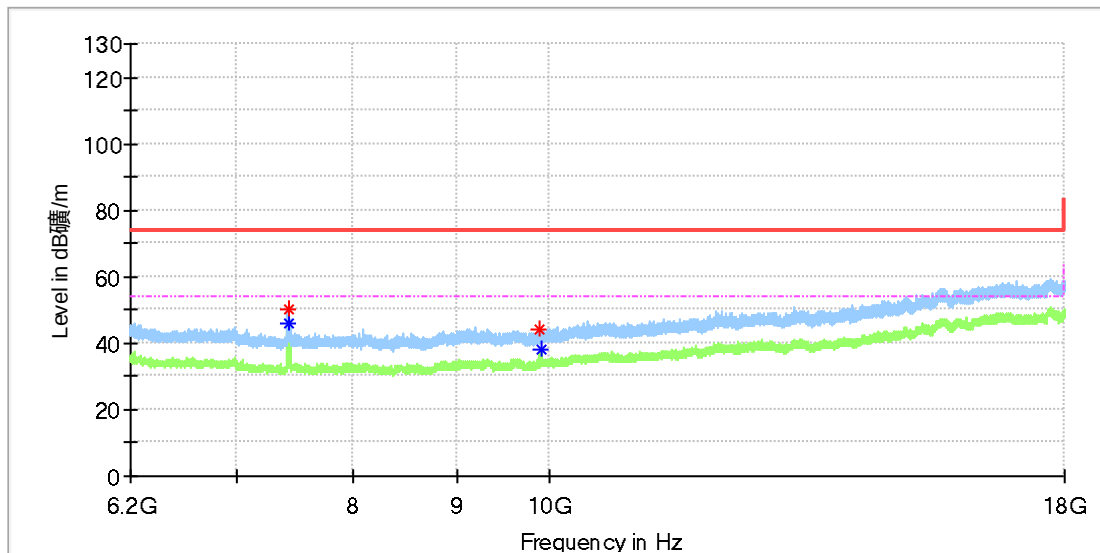
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2473.560000	84.56	---	114.00	29.44	100.0	V	29.0	7.4
2474.240000	---	82.91	94.00	11.09	100.0	V	51.0	7.4
4949.000000	55.86	---	74.00	18.14	100.0	V	173.0	11.8

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4949.252778	47.05	54.00	6.95	100.0	V	168.0	11.8

EUT Information

EUT Name: Lenovo 150 Wireless Mouse
Model: MS-3700R
Test Mode: 2.4G H CH
Order No/Sample No: 168432015/A003397684-002
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

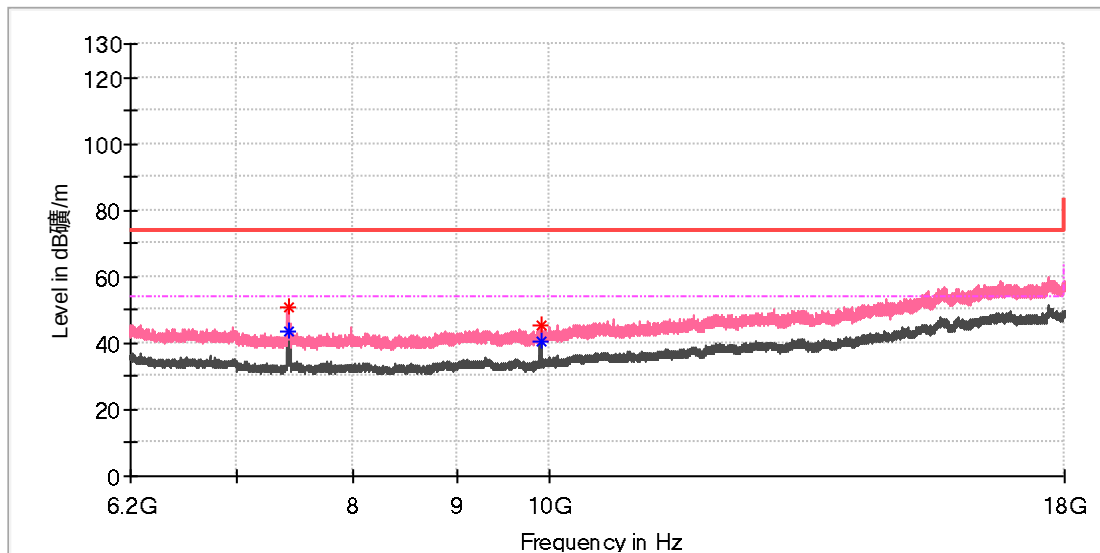
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7429.658333	---	46.05	54.00	7.95	100.0	H	0.0	8.4
7430.150000	50.20	---	74.00	23.80	100.0	H	0.0	8.4
9891.925000	43.90	---	74.00	30.10	100.0	H	190.0	10.7
9904.708333	---	38.37	54.00	15.63	100.0	H	238.0	10.8

Final_Result

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

EUT Information

EUT Name: Lenovo 150 Wireless Mouse
Model: MS-3700R
Test Mode: 2.4G H CH
Order No/Sample No: 168432015/A003397684-002
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

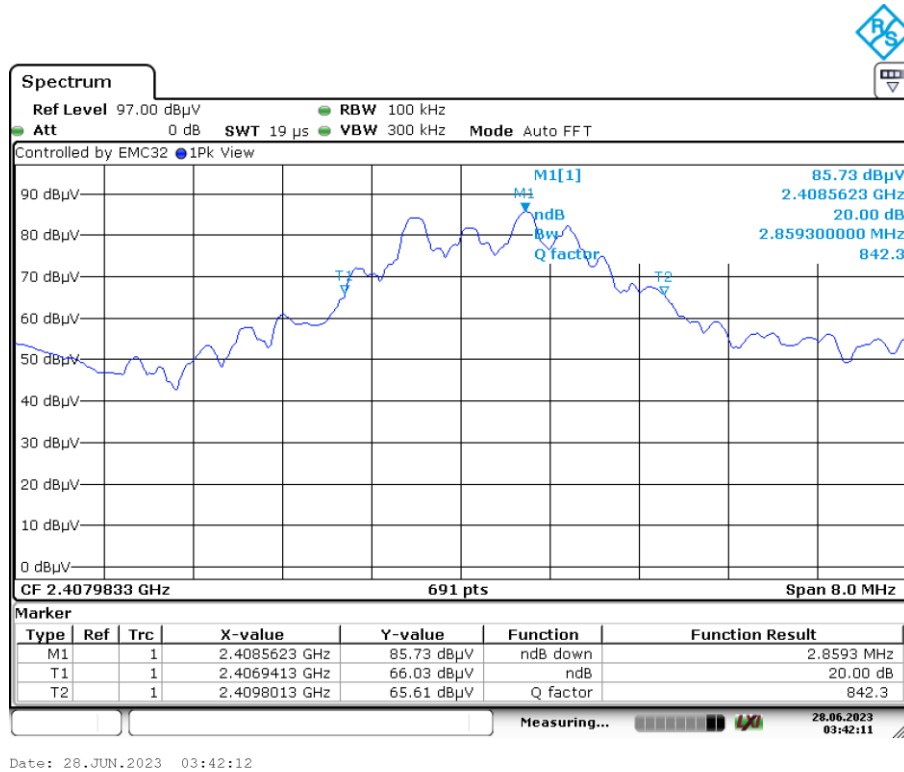
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7426.216667	50.86	---	74.00	23.14	100.0	V	160.0	8.4
7426.216667	---	43.80	54.00	10.20	100.0	V	160.0	8.4
9904.216667	45.42	---	74.00	28.58	100.0	V	61.0	10.8
9904.708333	---	40.59	54.00	13.41	100.0	V	194.0	10.8

Final Result

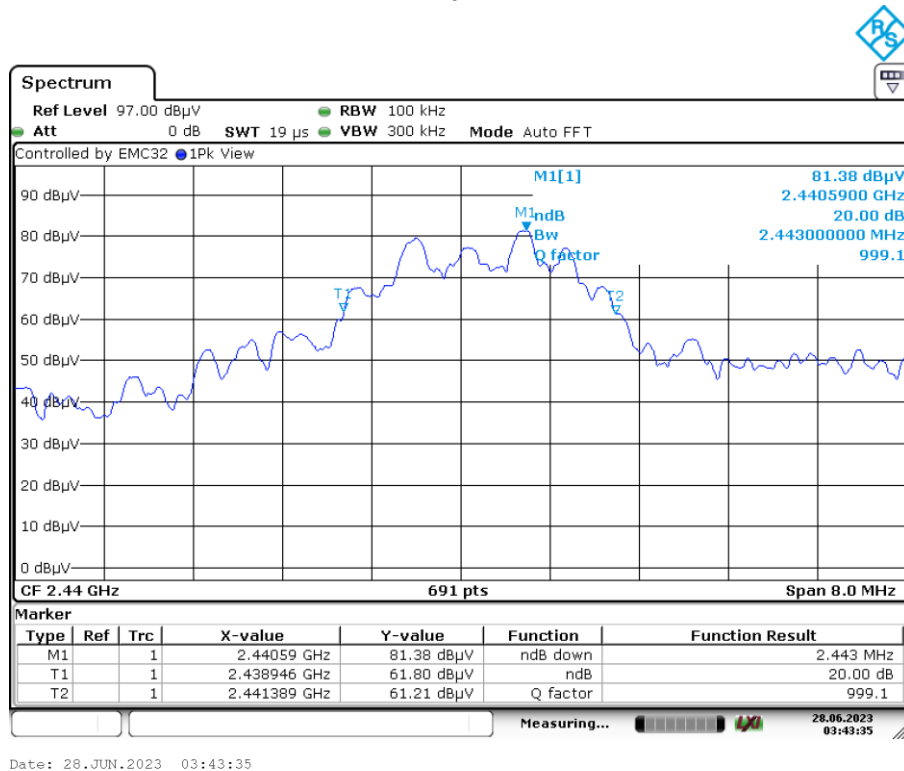
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Appendix A.2: Test Results of 20dB Bandwidth

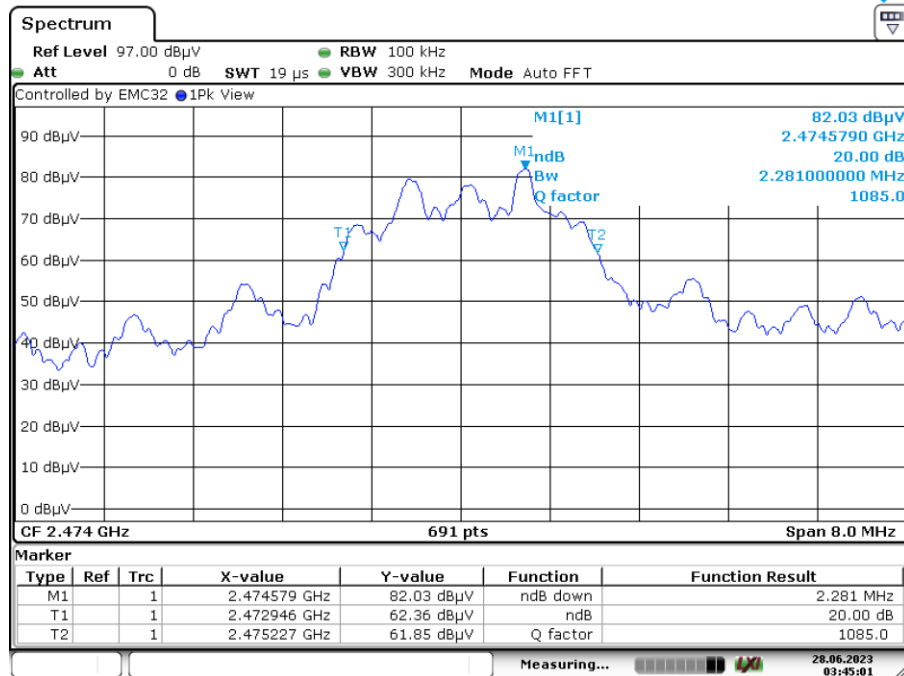
2408MHz



2440MHz



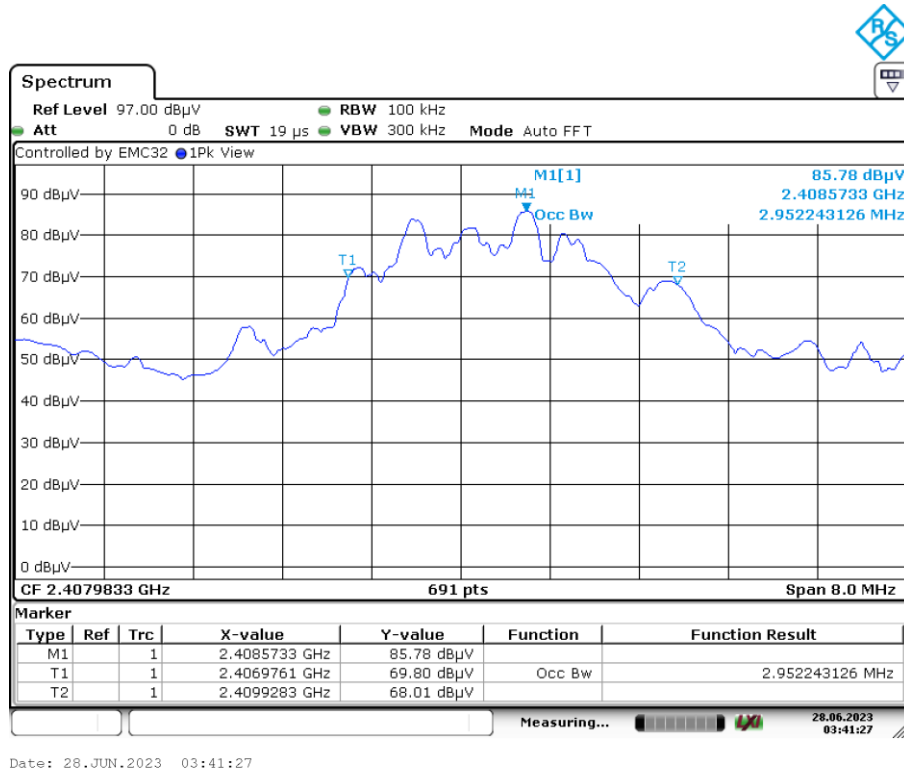
2474MHz



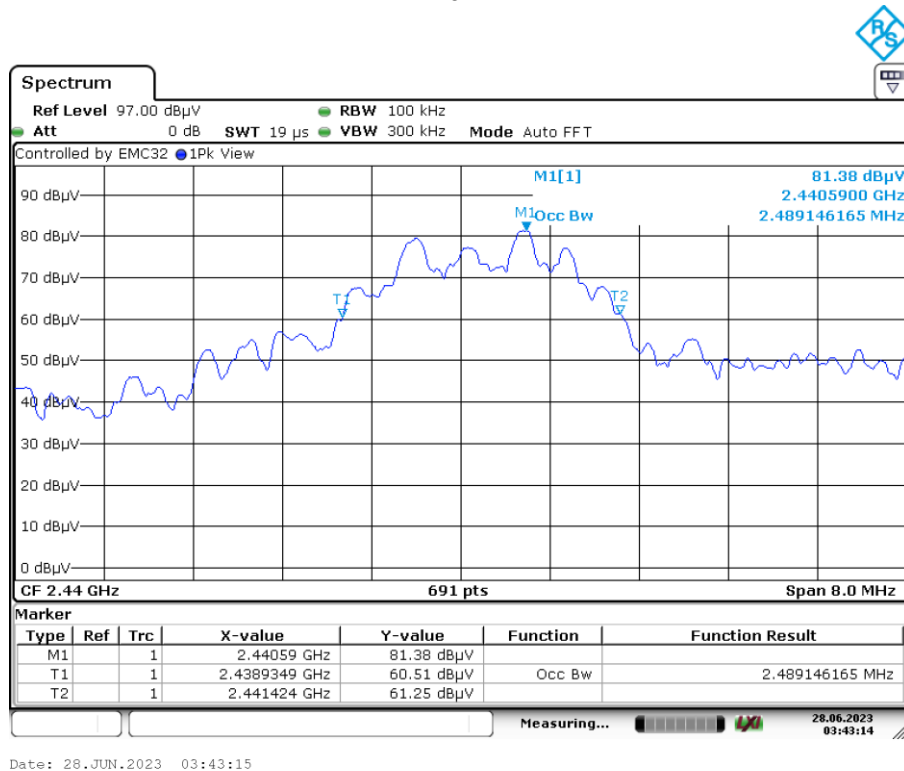
Date: 28.JUN.2023 03:45:01

Appendix A.3: Test Results of 99% Bandwidth

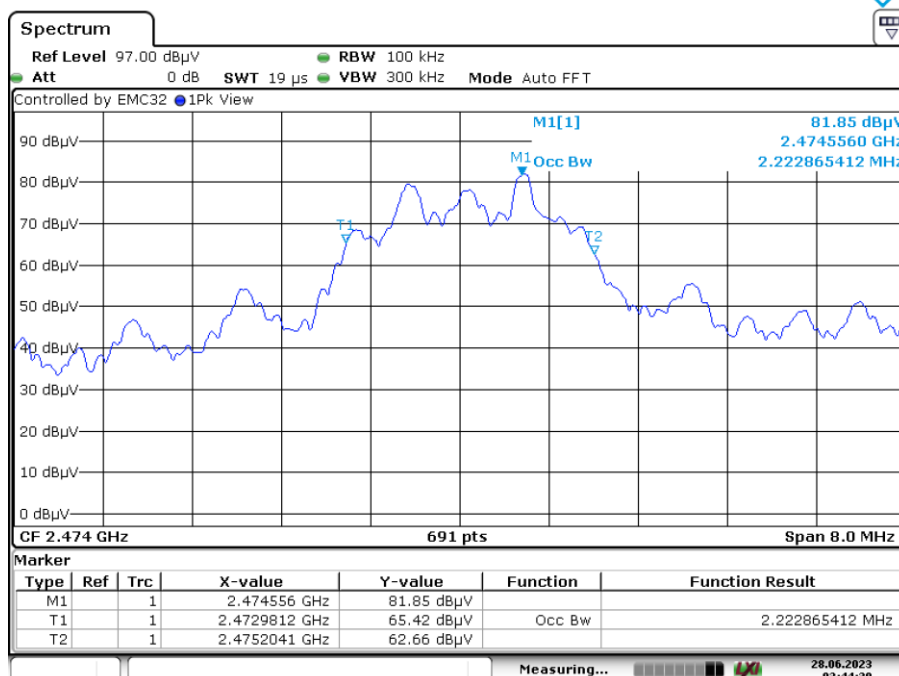
2408MHz



2440MHz



2474MHz

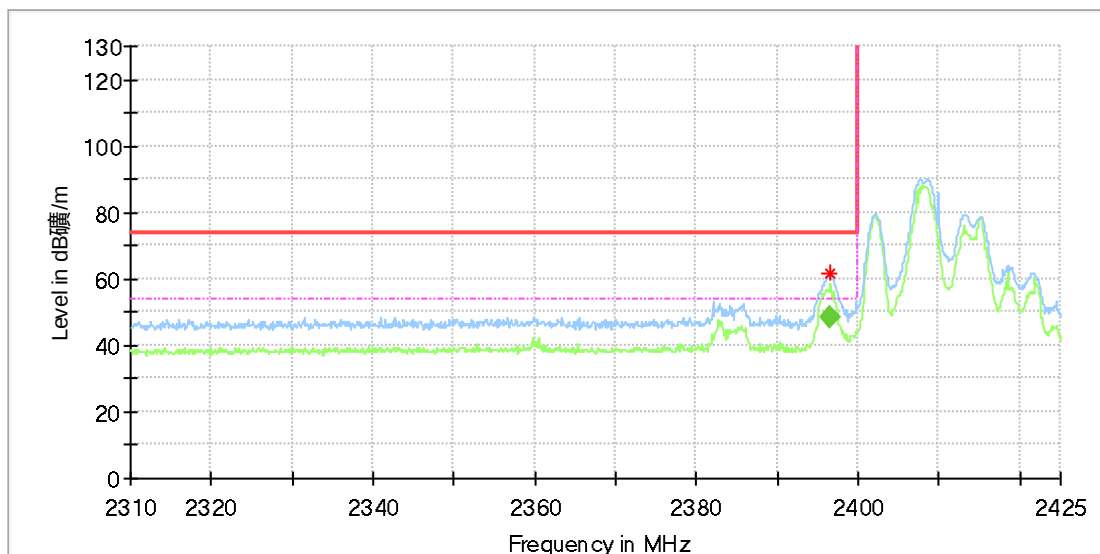


Date: 28.JUN.2023 03:44:40

Appendix A.4: Test Results of Band Edge

EUT Information

EUT Name: Lenovo 150 Wireless Mouse
Model: MS-370OR
Test Mode: 2.4G L CH
Order No/Sample No: 168432015/A003397684-002
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

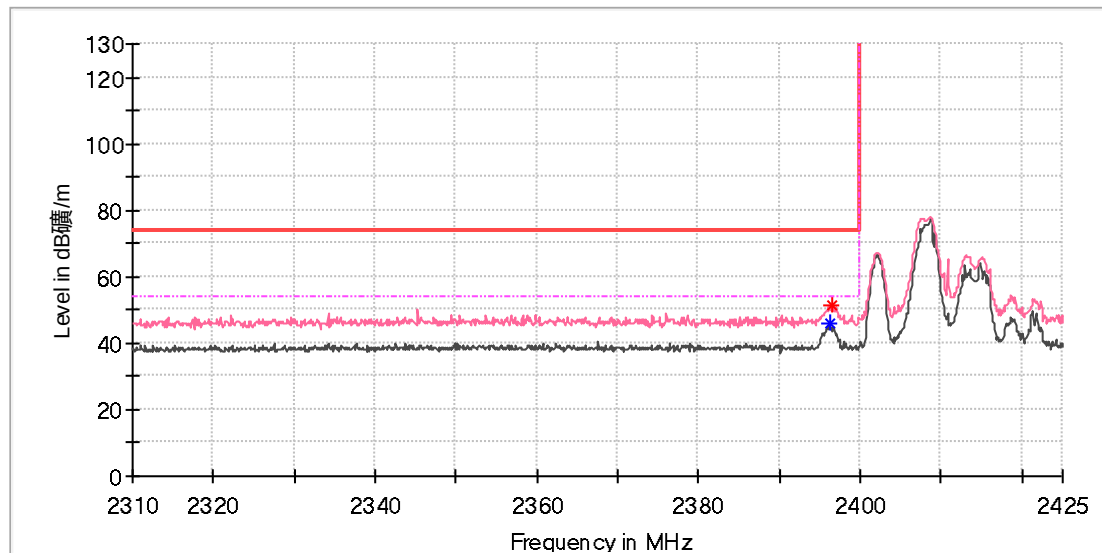
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2396.600000	61.47	---	74.00	12.53	100.0	H	321.0	7.0

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2396.553300	48.11	54.00	5.89	100.0	H	316.0	7.0

EUT Information

EUT Name: Lenovo 150 Wireless Mouse
Model: MS-3700R
Test Mode: 2.4G L CH
Order No/Sample No: 168432015/A003397684-002
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

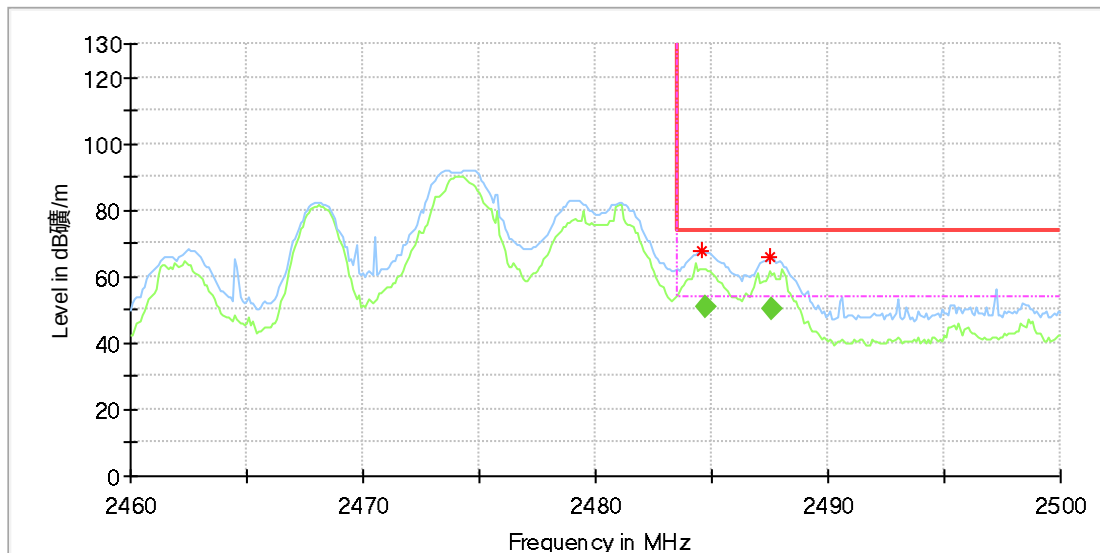
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2396.200000	---	45.71	54.00	8.29	100.0	V	327.0	7.0
2396.600000	51.50	---	74.00	22.50	100.0	V	2.0	7.0

Final Result

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

EUT Name: Lenovo 150 Wireless Mouse
Model: MS-370OR
Test Mode: 2.4G H CH
Order No/Sample No: 168432015/A003397684-002
Test Voltage: Battery
Remark: Temp 22 Humi:55%
Test Standard: FCC 15.249
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

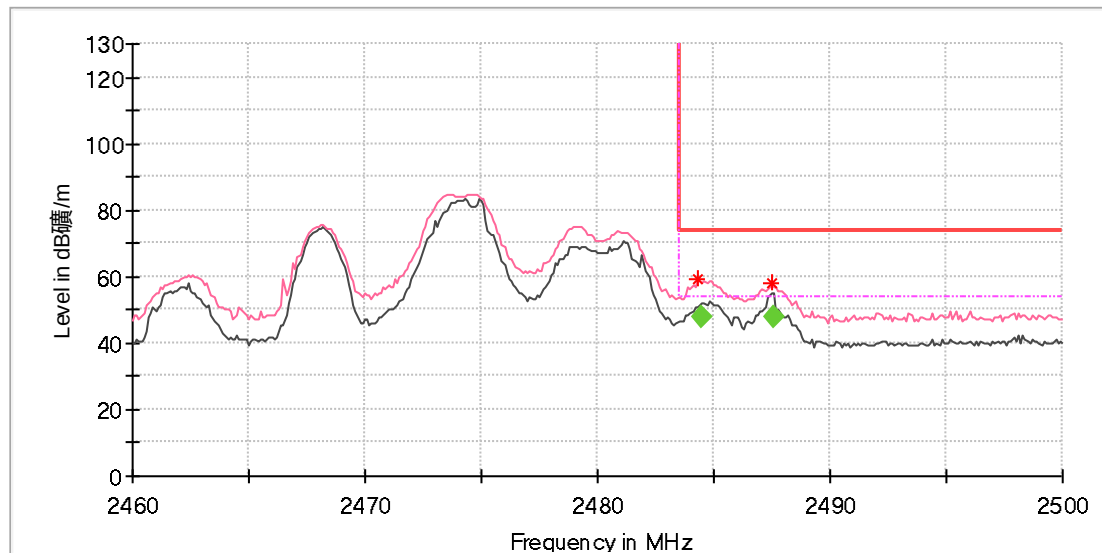
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.600000	67.64	---	74.00	6.36	100.0	H	43.0	7.4
2487.500000	65.95	---	74.00	8.05	100.0	H	43.0	7.4

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.716150	50.89	54.00	3.11	100.0	H	32.0	7.4
2487.547850	50.38	54.00	3.62	100.0	H	31.0	7.4

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)
2484.300000	59.51	---	74.00	14.49	100.0	V	34.0	7.4
2487.500000	57.78	---	74.00	16.22	100.0	V	24.0	7.4

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.475500	47.95	54.00	6.05	105.0	V	33.0	7.4
2487.597300	47.79	54.00	6.21	100.0	V	33.0	7.4