

Appendix B: Test Results

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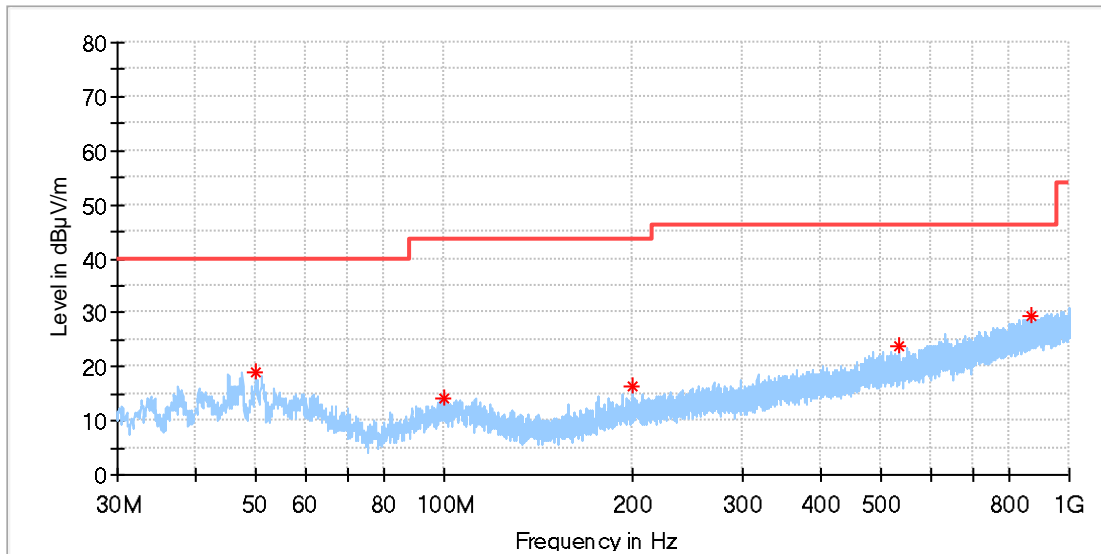
Appendix B.1: Test Results of Field strength of fundamental & harmonics

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 100 Wireless Mouse
Model:	KN100-M
Test Mode:	2.4GHz M CH
Order No/Sample No:	168390083/A003339290-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

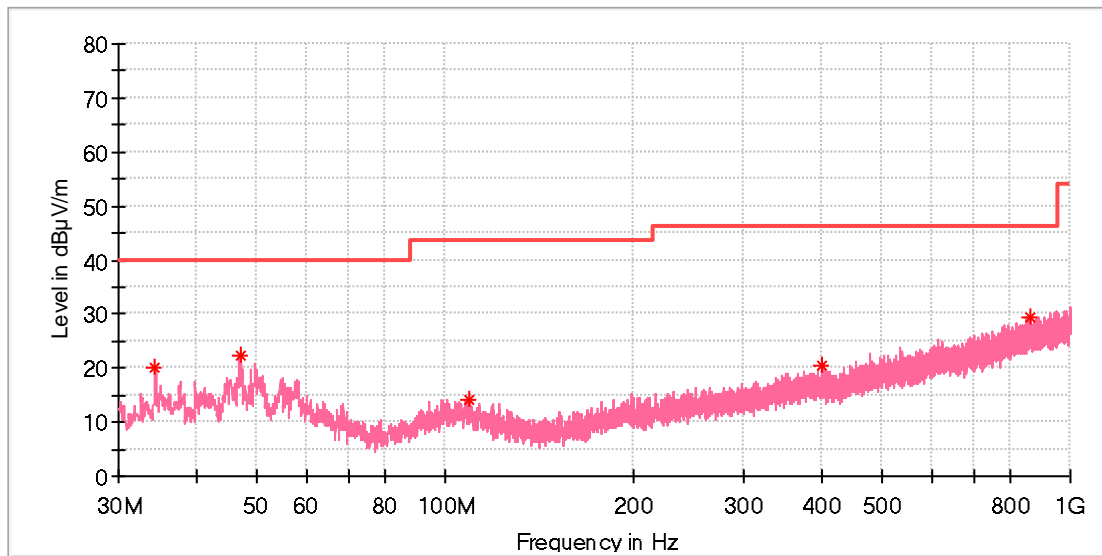


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.982000	19.08	40.00	20.92	100.0	H	88.0	-18.3
100.276500	14.25	43.50	29.25	100.0	H	241.0	-19.0
200.041000	16.50	43.50	27.00	100.0	H	198.0	-19.0
532.072000	23.74	46.00	22.26	100.0	H	190.0	-11.3
869.098500	29.33	46.00	16.67	100.0	H	100.0	-5.2

EUT Information

EUT Name: Lenovo 100 Wireless Mouse
 Model: KN100-M
 Test Mode: 2.4GHz M CH
 Order No/Sample No: 168390083/A003339290-003
 Test Voltage: Battery
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin



Critical Freqs

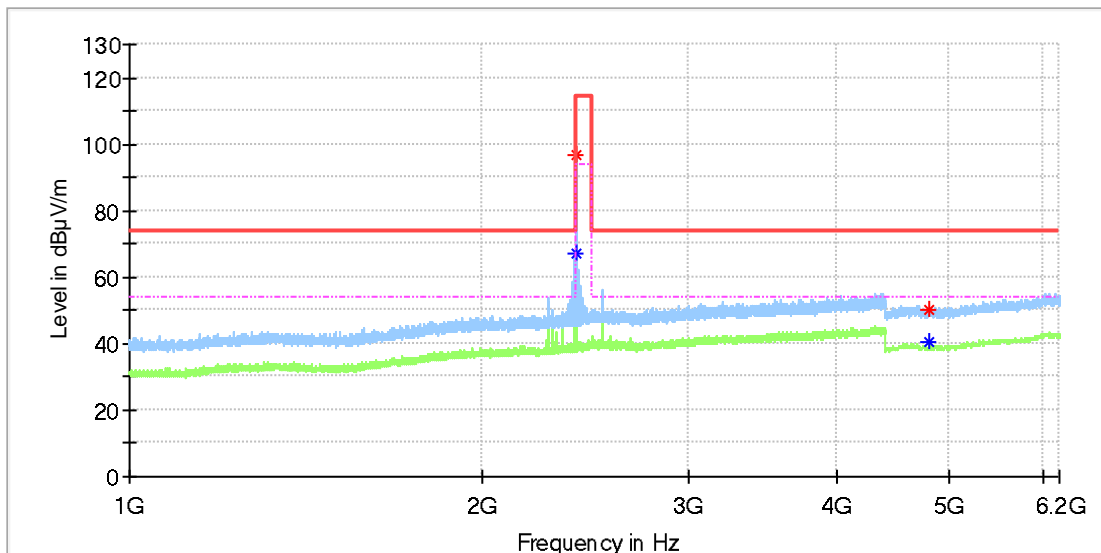
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
34.365000	20.06	40.00	19.94	100.0	V	271.0	-22.2
47.120500	22.21	40.00	17.79	100.0	V	196.0	-18.5
109.152000	14.05	43.50	29.45	100.0	V	190.0	-19.0
399.182000	20.61	46.00	25.39	100.0	V	355.0	-13.6
861.823500	29.53	46.00	16.47	100.0	V	210.0	-5.3

1GHz - 18GHz

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

EUT Information

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Test Mode:	2.4GHz L CH
Order No/Sample No:	168390083/A003339290-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

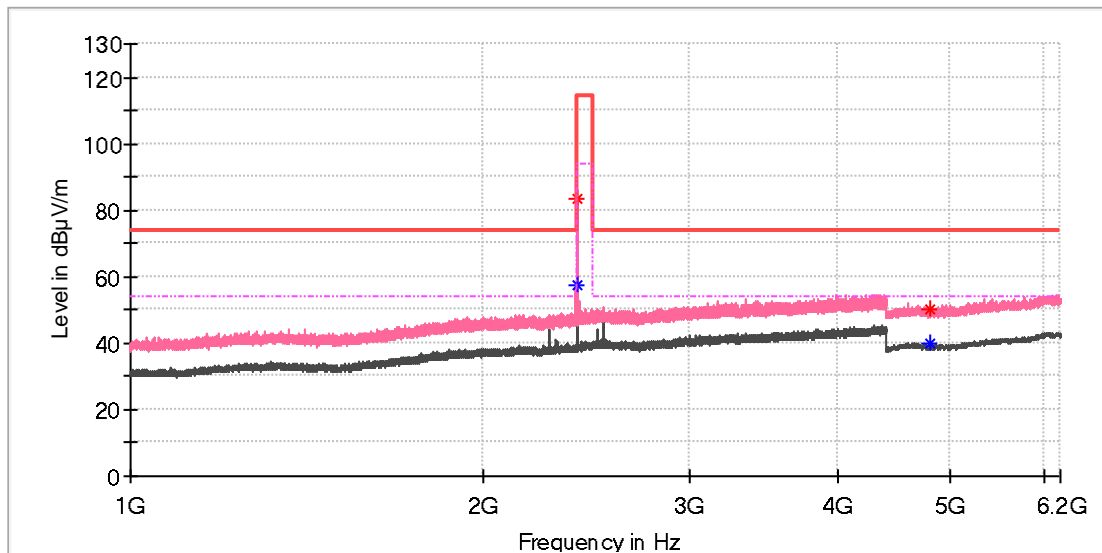


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2403.010000	96.81	---	114.00	17.19	100.0	H	97.0	7.0
2404.030000	---	67.41	94.00	26.59	100.0	H	119.0	7.0
4800.000000	50.38	---	74.00	23.62	100.0	H	43.0	11.8
4805.000000	---	40.67	54.00	13.33	100.0	H	7.0	11.8

EUT Information

EUT Name: Lenovo 100 Wireless Mouse
 Model: KN100-M
 Test Mode: 2.4GHz L CH
 Order No/Sample No: 168390083/A003339290-003
 Test Voltage: Battery
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

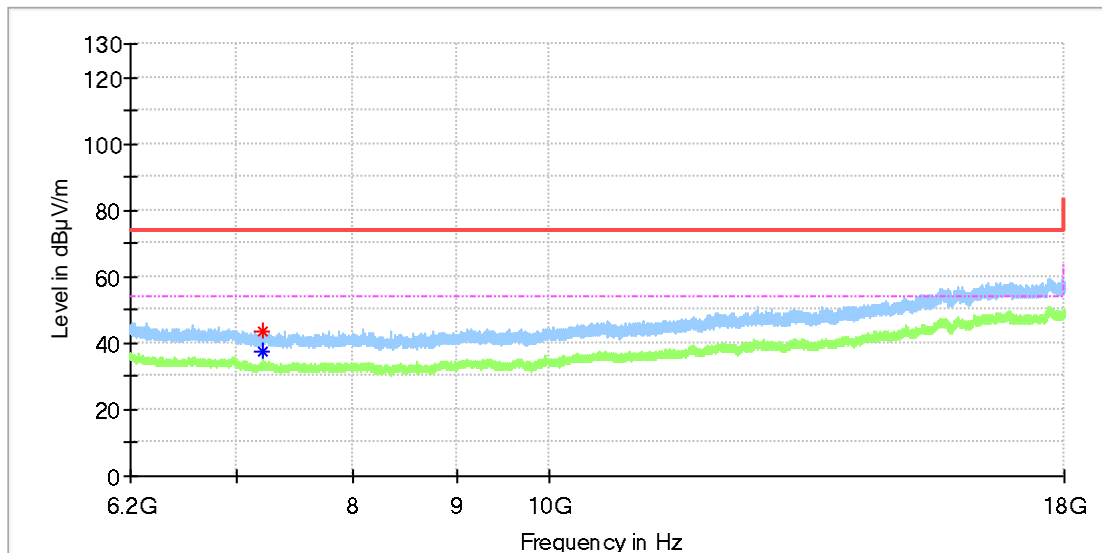


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2401.480000	---	57.52	94.00	36.48	100.0	V	20.0	7.0
2402.500000	83.73	---	114.00	30.27	100.0	V	20.0	7.0
4801.500000	50.48	---	74.00	23.52	100.0	V	151.0	11.8
4808.000000	---	39.72	54.00	14.28	100.0	V	179.0	11.8

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 Test Voltage: Battery
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

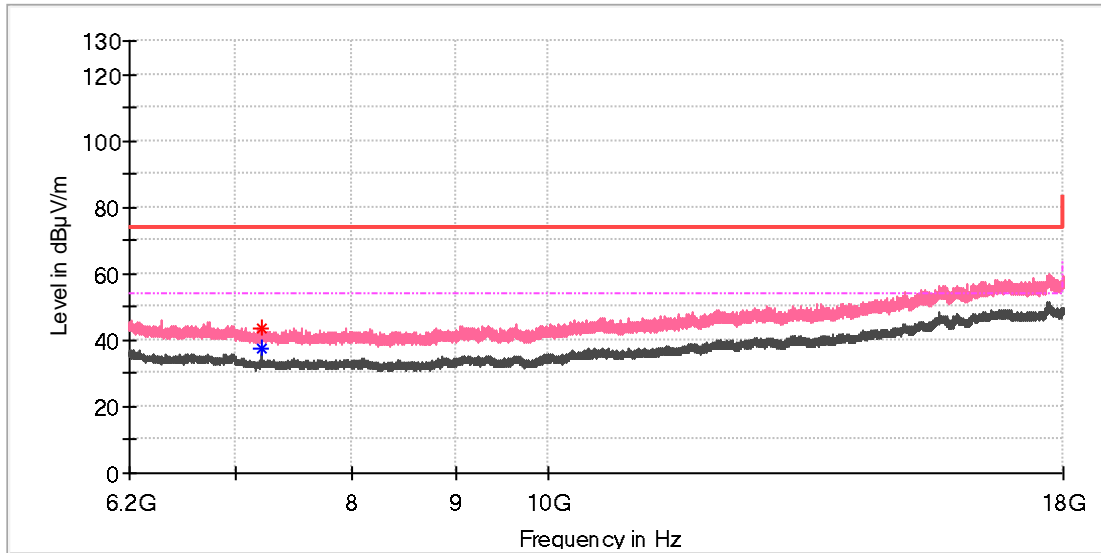


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7208.900000	---	37.36	54.00	16.64	100.0	H	188.0	8.8
7212.833333	43.76	---	74.00	30.24	100.0	H	201.0	8.7

EUT Information

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 Order No/Sample No: 168390083/A003339290-003
 Test Voltage: Battery
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

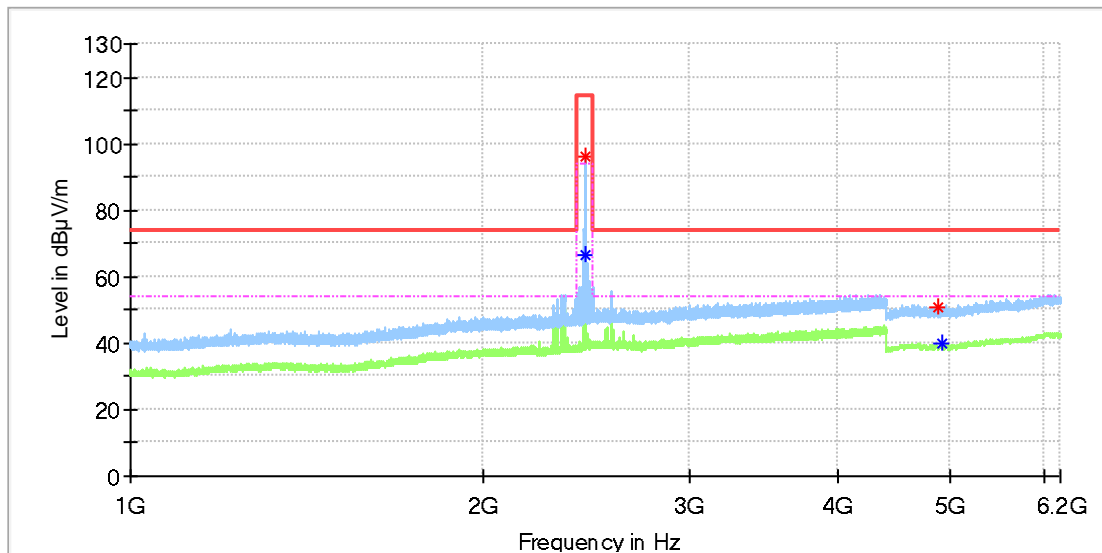


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7210.866667	43.27	---	74.00	30.73	100.0	V	174.0	8.7
7210.866667	---	37.25	54.00	16.75	100.0	V	174.0	8.7

EUT Information

EUT Name:	Lenovo 100 Wireless Mouse
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Order No/Sample No:	168390083/A003339290-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

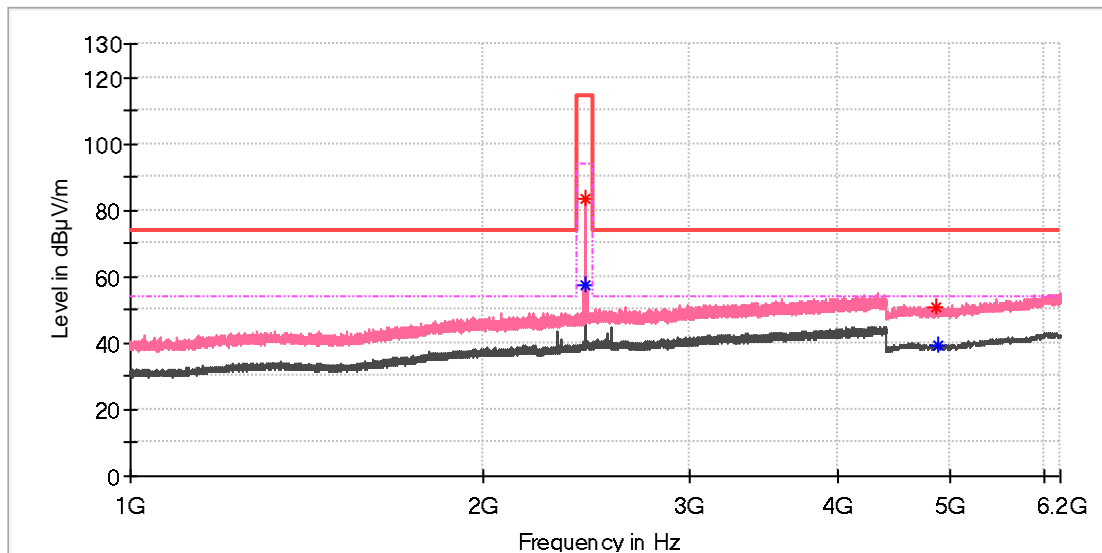


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2438.540000	95.95	---	114.00	18.05	100.0	H	86.0	7.4
2439.730000	---	66.45	94.00	27.55	100.0	H	229.0	7.4
4874.500000	51.02	---	74.00	22.98	100.0	H	74.0	11.8
4907.500000	---	39.68	54.00	14.32	100.0	H	285.0	11.8

EUT Information

EUT Name: Lenovo 100 Wireless Mouse
 Model: KN100-M
 Test Mode: 2.4GHz M CH
 Order No/Sample No: 168390083/A003339290-003
 Test Voltage: Battery
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

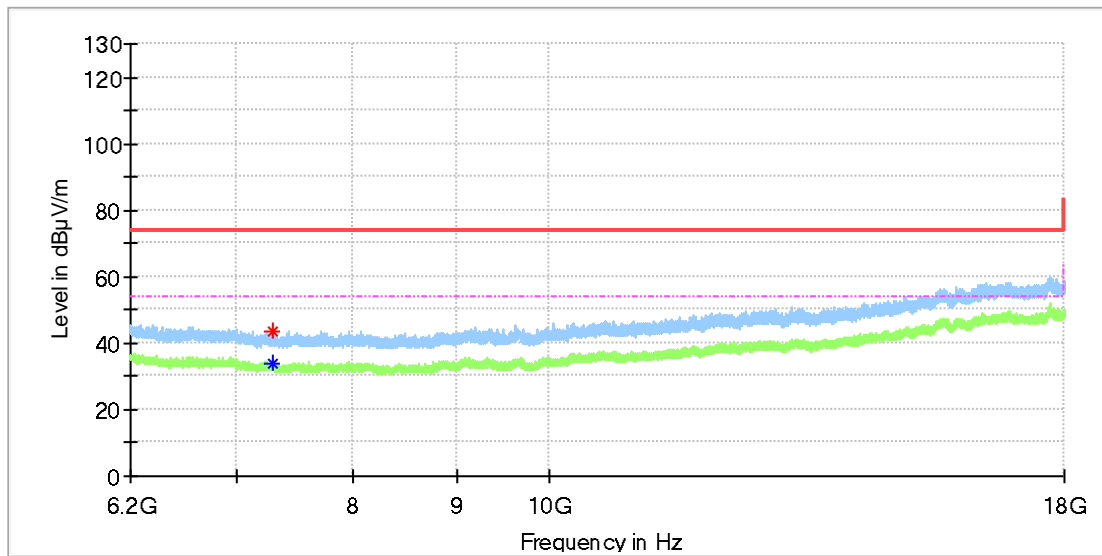


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2437.520000	---	57.34	94.00	36.66	100.0	V	131.0	7.4
2438.370000	83.54	---	114.00	30.46	100.0	V	131.0	7.4
4866.500000	50.97	---	74.00	23.03	100.0	V	293.0	11.8
4876.500000	---	39.06	54.00	14.94	100.0	V	264.0	11.8

EUT Information

EUT Name: Lenovo 100 Wireless Mouse
 Model: KN100-M
 Test Mode: 2.4GHz M CH
 Order No/Sample No: 168390083/A003339290-003
 Test Voltage: Battery
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

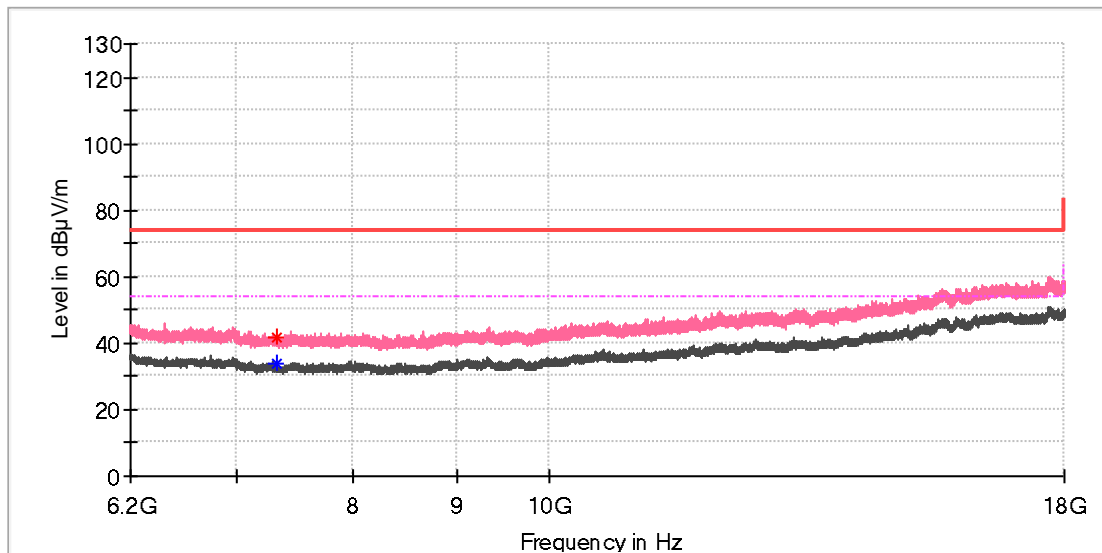


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7300.350000	---	33.74	54.00	20.26	100.0	H	359.0	8.3
7301.333333	43.24	---	74.00	30.76	100.0	H	265.0	8.3

EUT Information

EUT Name: Lenovo 100 Wireless Mouse
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 Test Mode: 2.4GHz M CH
 Order No/Sample No: 168390083/A003339290-003
 Test Voltage: Battery
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

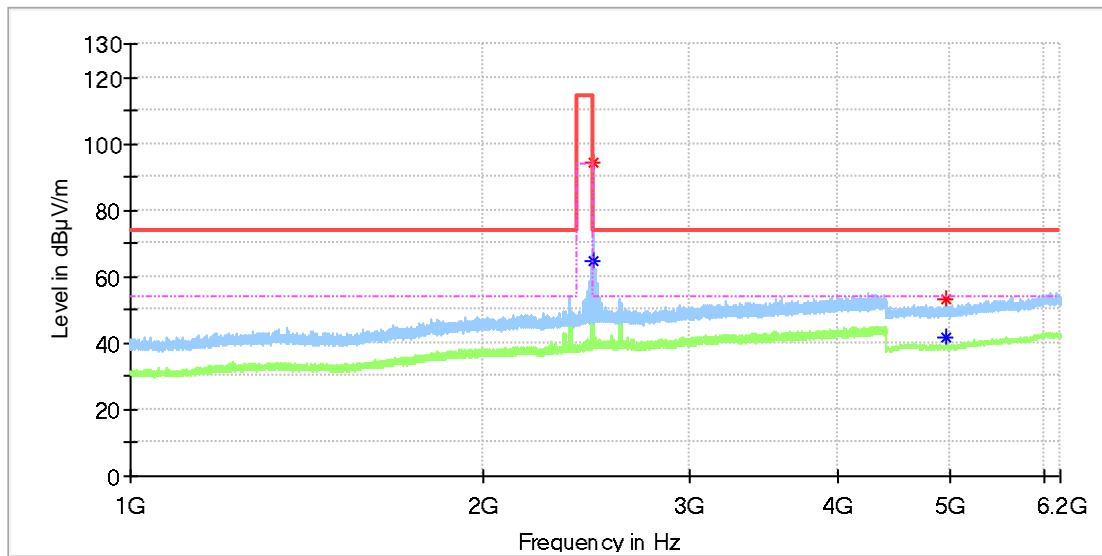


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7321.000000	41.86	---	74.00	32.14	100.0	V	96.0	8.2
7330.833333	---	33.66	54.00	20.34	100.0	V	303.0	8.1

EUT Information

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Order No/Sample No:	168390083/A003339290-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

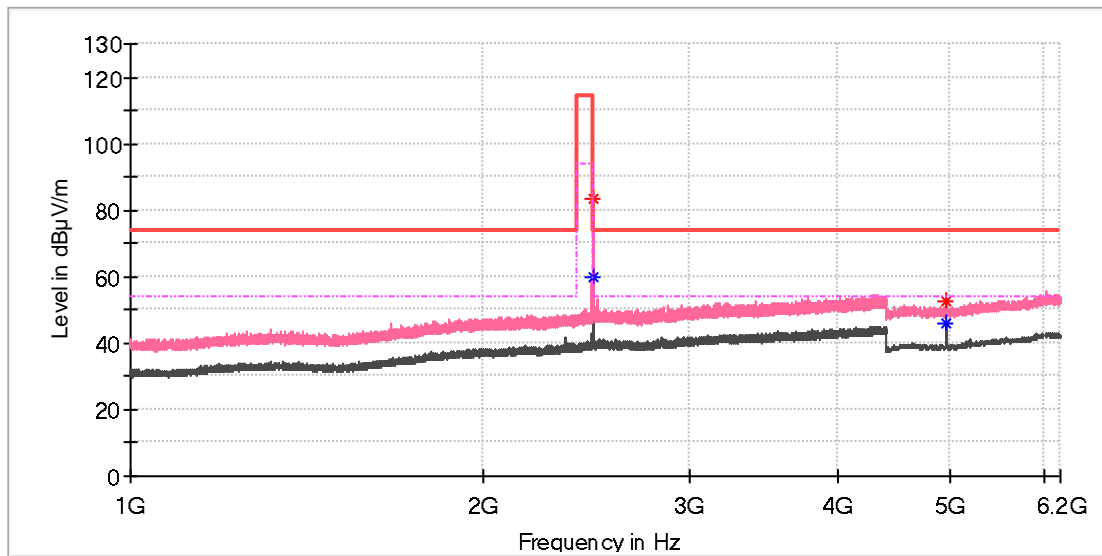


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2477.130000	---	64.53	94.00	29.47	100.0	H	253.0	7.4
2478.150000	94.09	---	114.00	19.91	100.0	H	84.0	7.4
4957.000000	53.44	---	74.00	20.56	100.0	H	268.0	11.8
4957.500000	---	41.67	54.00	12.33	100.0	H	268.0	11.8

EUT Information

EUT Name: Lenovo 100 Wireless Mouse
 Model: KN100-M
 Test Mode: 2.4GHz H CH
 Order No/Sample No: 168390083/A003339290-003
 Test Voltage: Battery
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
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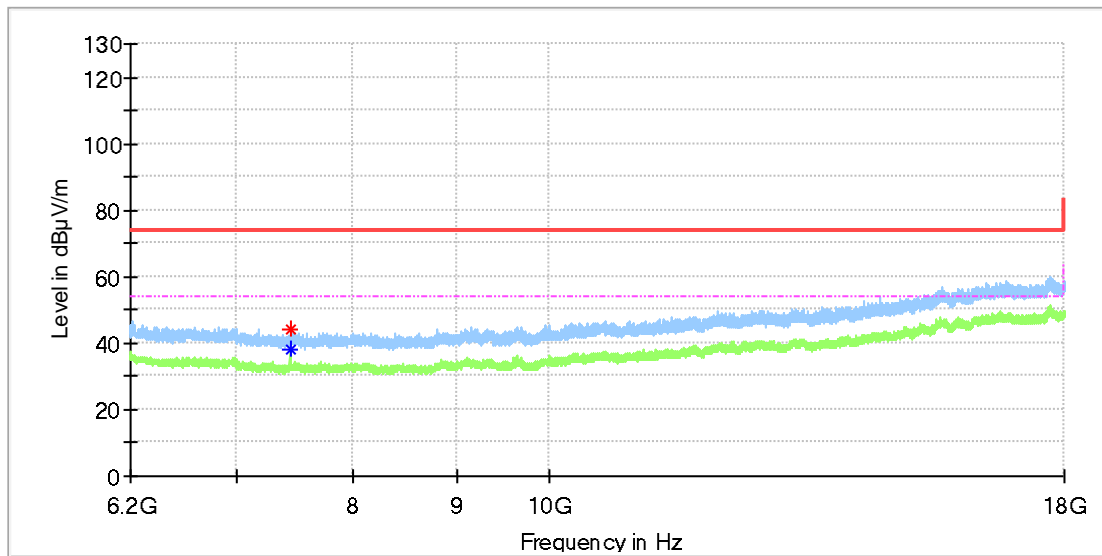


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2476.960000	---	59.58	94.00	34.42	100.0	V	177.0	7.4
2478.490000	83.68	---	114.00	30.32	100.0	V	45.0	7.4
4957.000000	52.69	---	74.00	21.31	100.0	V	264.0	11.8
4957.000000	---	45.91	54.00	8.09	100.0	V	264.0	11.8

EUT Information

EUT Name:	Lenovo 100 Wireless Mouse
Model:	KN100-M
Test Mode:	2.4GHz H CH
Order No/Sample No:	168390083/A003339290-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

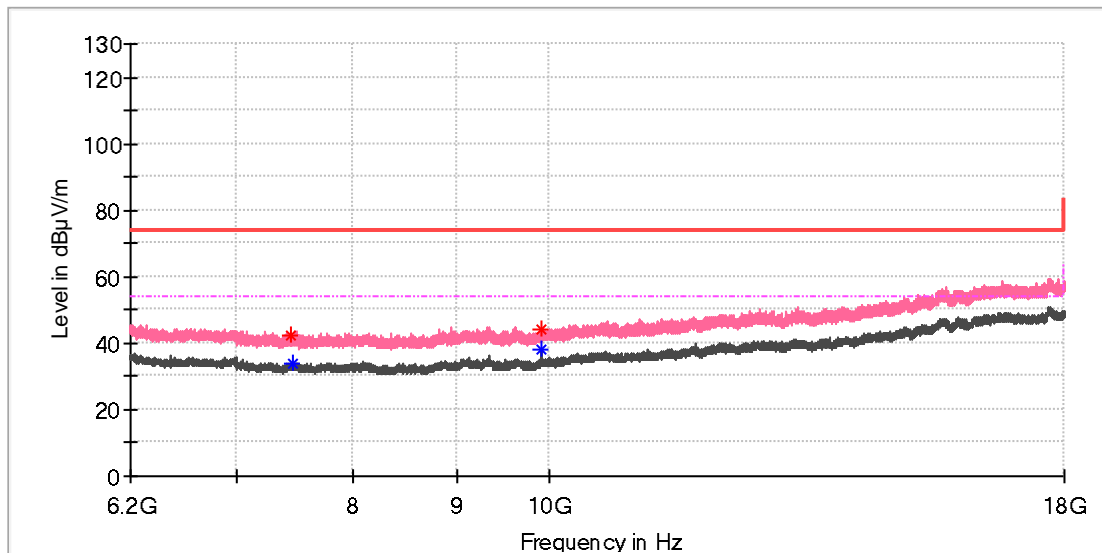


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7436.541667	---	37.84	54.00	16.16	100.0	H	349.0	8.4
7439.491667	44.05	---	74.00	29.95	100.0	H	349.0	8.4

EUT Information

EUT Name: Lenovo 100 Wireless Mouse
 Model: KN100-M
 Test Mode: 2.4GHz H CH
 Order No/Sample No: 168390083/A003339290-003
 Test Voltage: Battery
 Remark: Temp 23 Humi:58%
 Test Standard: FCC 15.249
 Tested By: Kei Zhang
 Reviewed By: Terry Yin

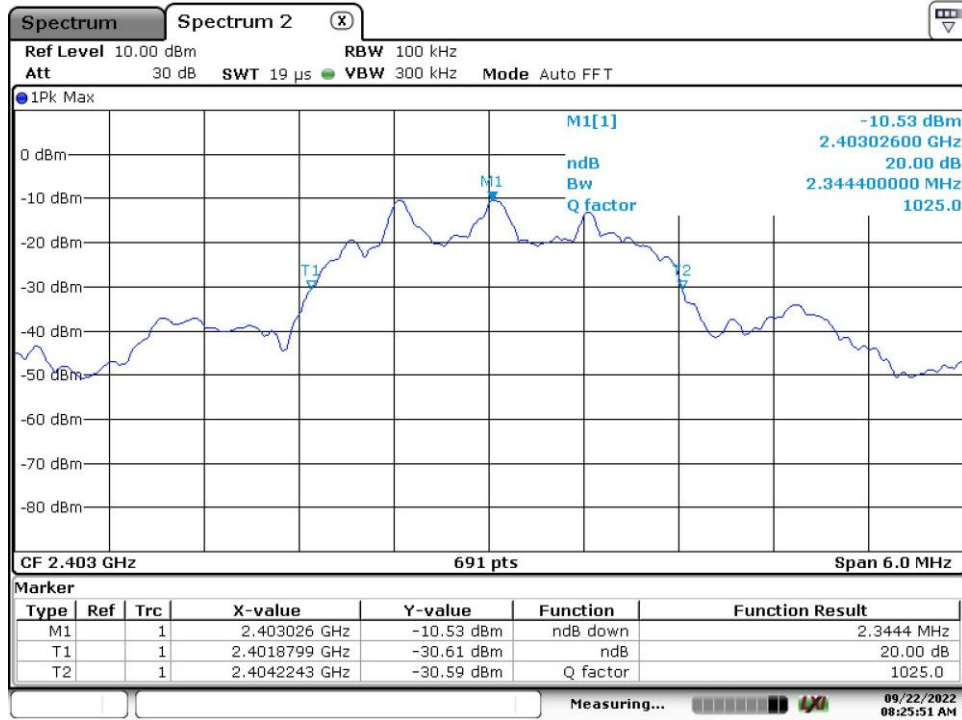


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.983333	42.14	---	74.00	31.86	100.0	V	254.0	8.4
7468.500000	---	33.97	54.00	20.03	100.0	V	99.0	8.6
9918.966667	43.99	---	74.00	30.01	100.0	V	170.0	10.8
9918.966667	---	37.82	54.00	16.18	100.0	V	170.0	10.8

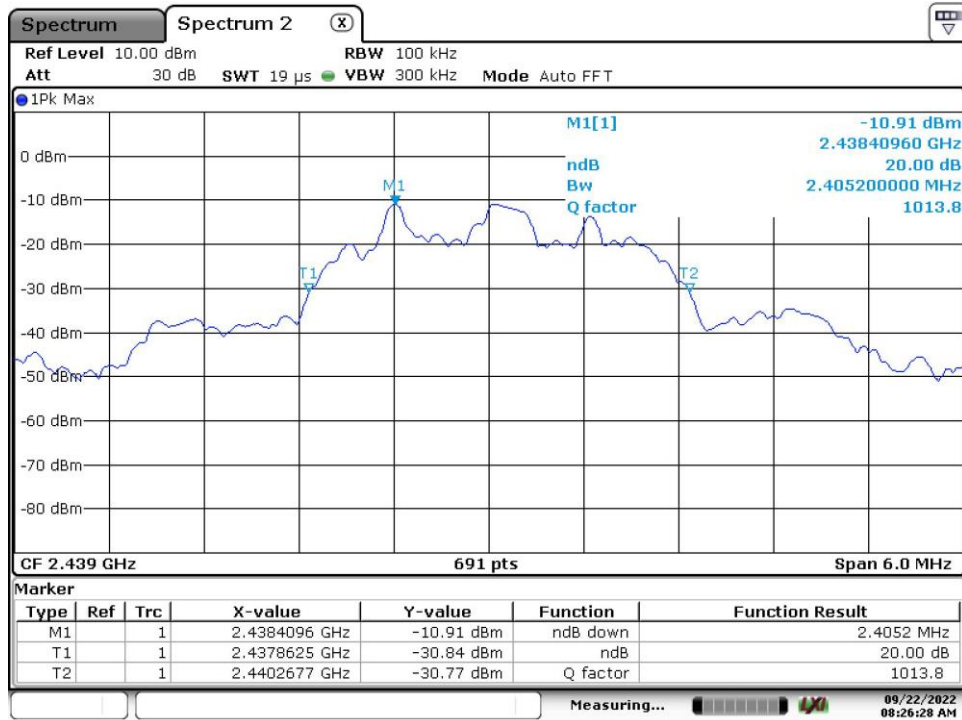
Appendix B.2: Test Results of 20dB Bandwidth

2403MHz



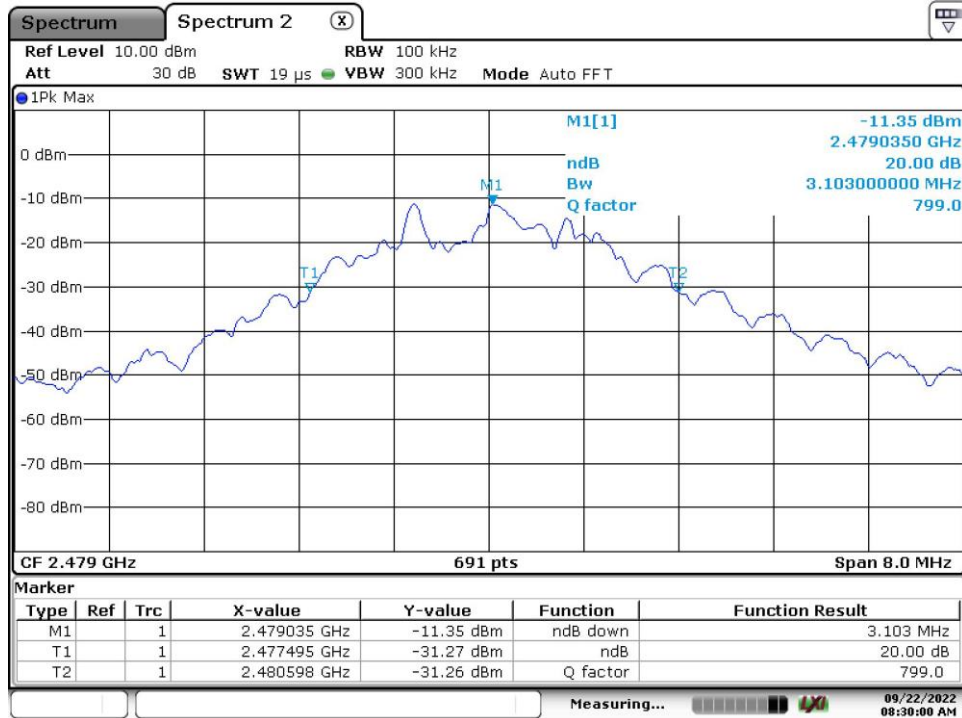
Date: 22.SEP.2022 08:25:51

2439MHz



Date: 22.SEP.2022 08:26:29

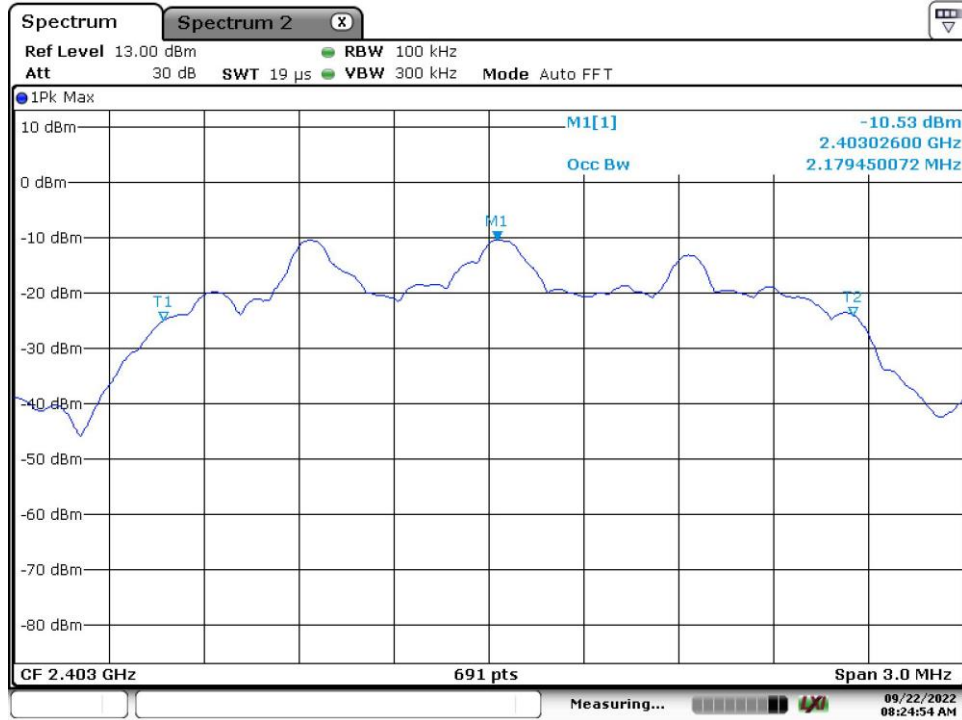
2479MHz



Date: 22.SEP.2022 08:30:00

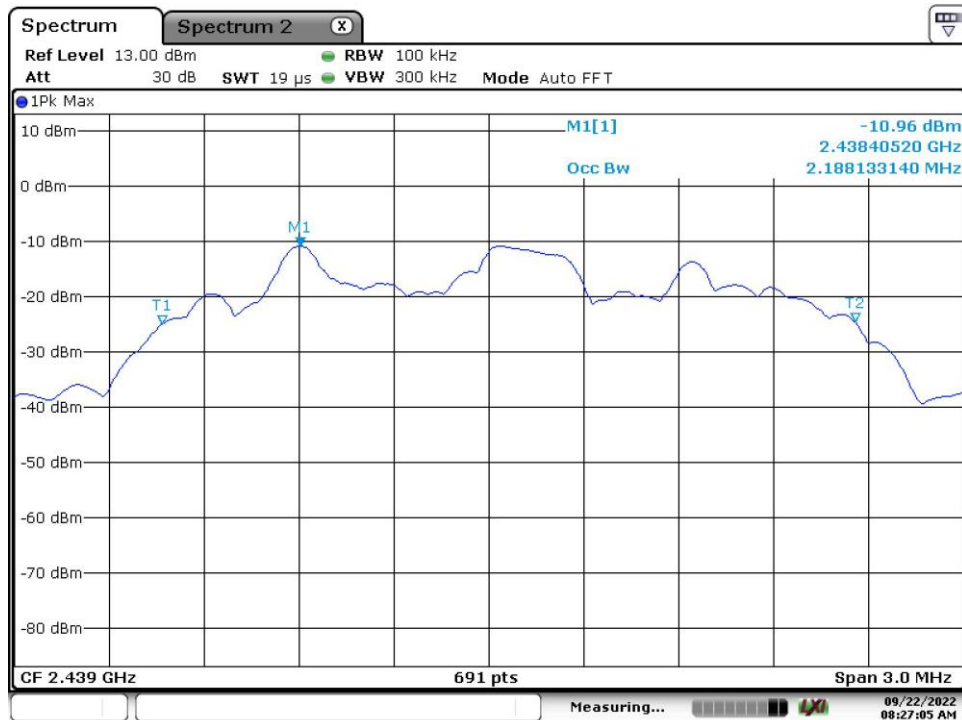
Appendix B.3: Test Results of 99% Bandwidth

2403MHz



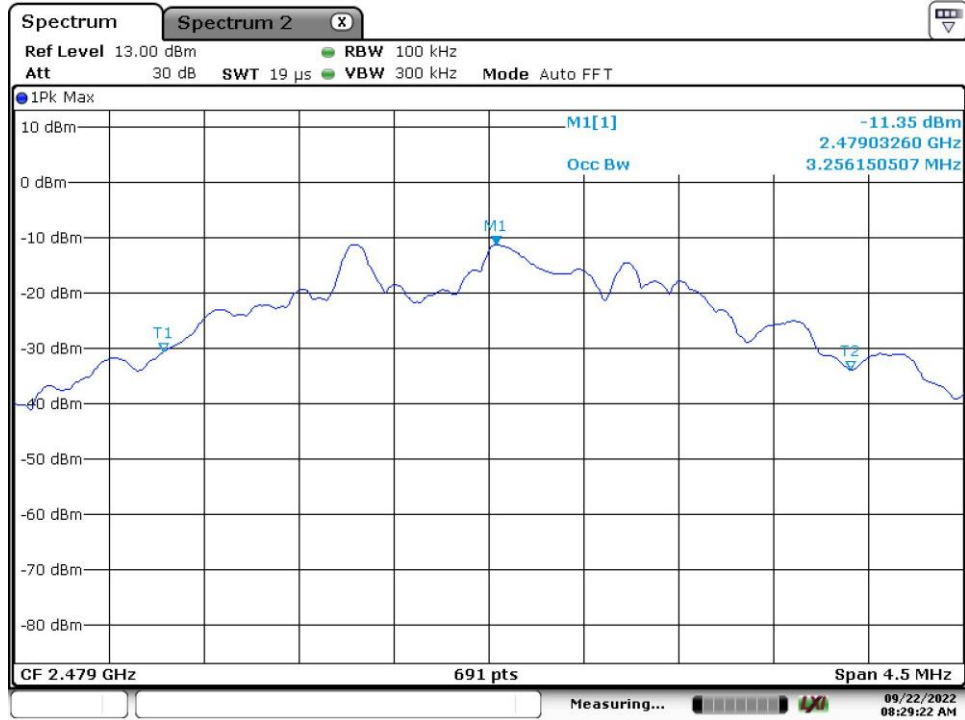
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2439MHz



Date: 22.SEP.2022 08:27:05

2479MHz

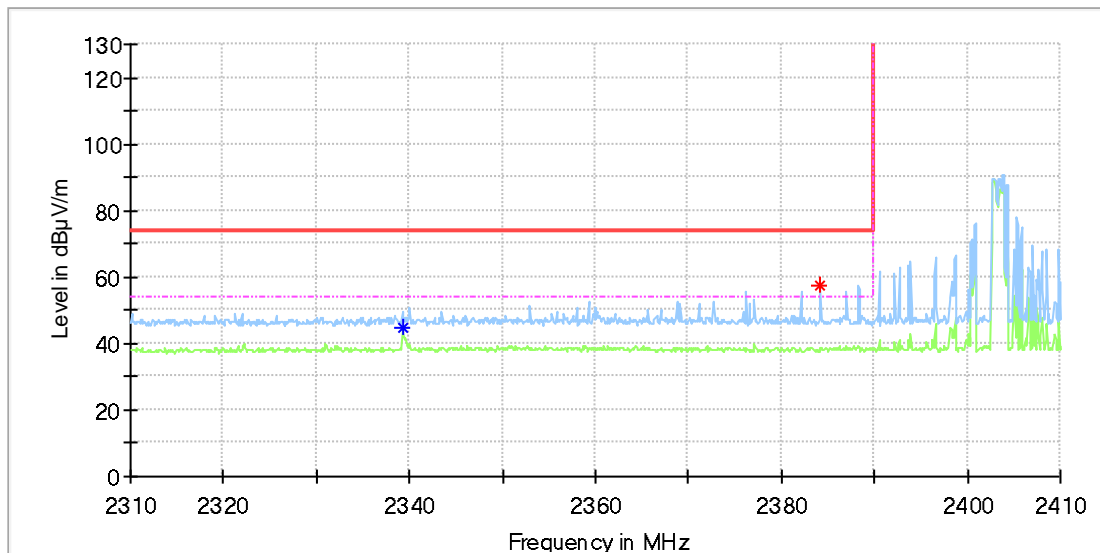


Date: 22.SEP.2022 08:29:22

Appendix B.4: Test Results of Band Edge

EUT Information

EUT Name:	Lenovo 100 Wireless Mouse
Model:	KN100-M
Test Mode:	2.4GHz L CH
Order No/Sample No:	168390083/A003339290-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

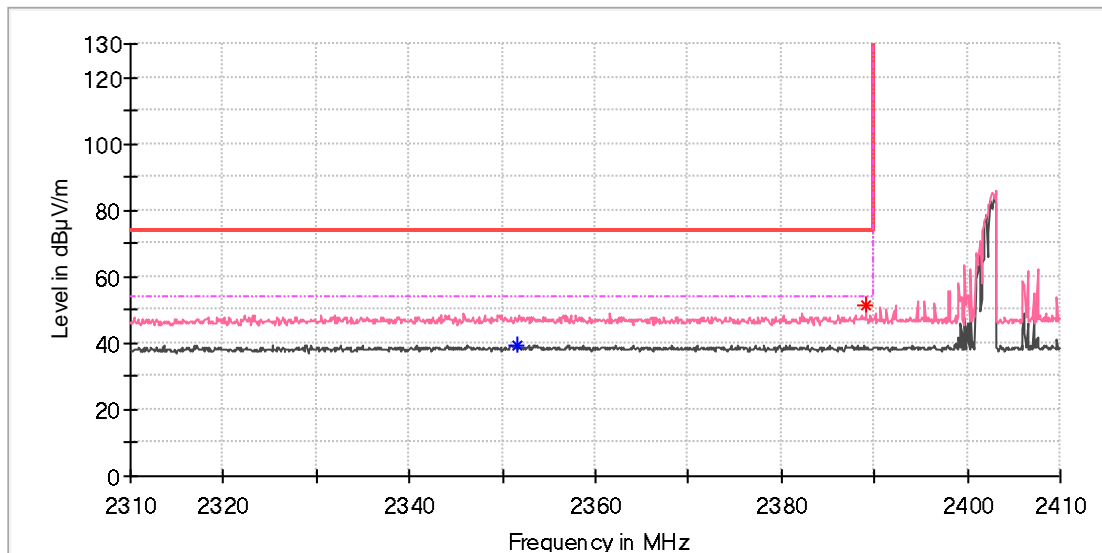


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2339.300000	---	44.74	54.00	9.26	100.0	H	86.0	6.8
2384.200000	57.50	---	74.00	16.50	100.0	H	354.0	7.0

EUT Information

EUT Name:	Lenovo 100 Wireless Mouse
Model:	KN100-M
Test Mode:	2.4GHz L CH
Order No/Sample No:	168390083/A003339290-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

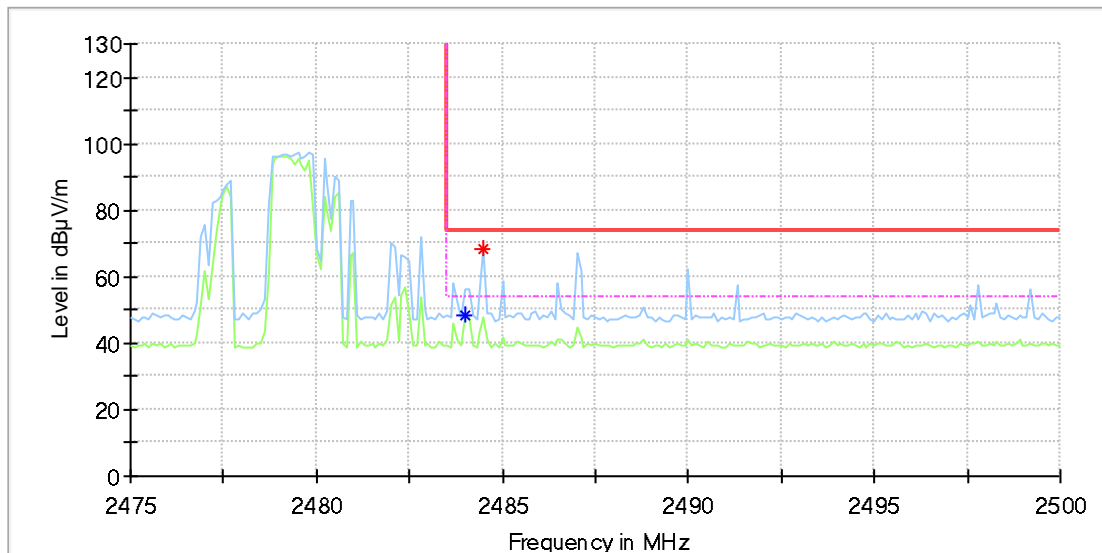


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2351.50000	---	39.32	54.00	14.68	100.0	V	90.0	6.9
2389.10000	51.12	---	74.00	22.88	100.0	V	76.0	7.0

EUT Information

EUT Name:	Lenovo 100 Wireless Mouse
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Test Mode:	2.4GHz H CH
Order No/Sample No:	168390083/A003339290-003
Test Voltage:	Battery
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.249
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

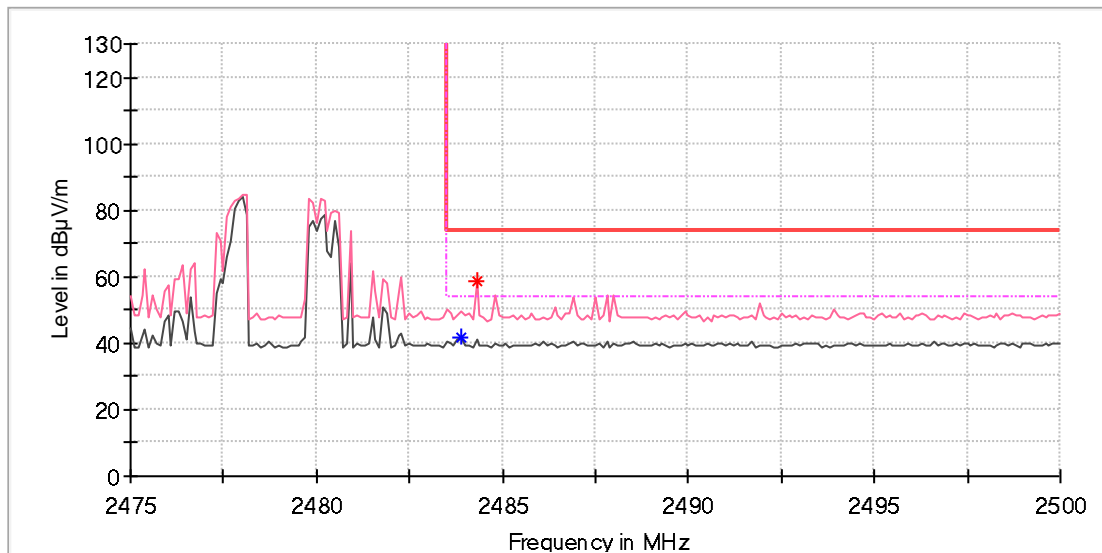


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.000000	---	48.50	54.00	5.50	100.0	H	0.0	7.4
2484.500000	68.13	---	74.00	5.87	100.0	H	0.0	7.4

EUT Information

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 Test Mode: 2.4GHz H CH
 Order No/Sample No: 168390083/A003339290-003
 Test Voltage: Battery
 Remark: Temp 23 Humi:58%
 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)
2483.900000	---	41.98	54.00	12.02	100.0	V	0.0	7.4
2484.300000	58.55	---	74.00	15.45	100.0	V	0.0	7.4