

TECHNOLOGY
DEVELOPMENT
LABORATORY
TIMEWAY
TESTING LABORATORY
卓時檢測
TIMEWAY TESTING LABORATORY
TESTING
CNAS L2292



卓時檢測
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No: FCC0908041-02
File reference No: 2009-08-21

Applicant: Shenzhen Xinbond Technology Co., LTD

Product: 2.4G wireless optical mouse/2.4G wireless Laser mouse

Model No: BD-9409G

Brand Name: N/A

Test Standards: FCC Part 15 Subpart C, Paragraph 15.249

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: August 21, 2009

**Results appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

IC- Registration No.: IC5205A-01

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD
Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.
Telephone: (755) 83448688
Fax: (755) 83442996

Site on File with the Federal Communications Commission – United States

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-01

For 3m & 10 m OATS

1.2 Applicant Details

Applicant: Shenzhen Xinbond Technology Co., LTD
Address: 10th building, Honghualing industrial park, Longxi, longgang, Shenzhen China
Telephone: 86-755-89751199 ext:844
Fax: 86-755-89751155

1.3 Description of EUT

Product:	2.4G wireless optical mouse/2.4G wireless laser mouse
Manufacturer:	Shenzhen Xinbond Technology Co., LTD
Brand Name:	N/A
Model Number:	BD-9409G
Additional Model Name	BD-9408G, BD-9388G, BD-9401G, BD-9402G, BD-9403G, BD-9405G, BD-9406G, BD-9502GL, BD-9501GL, BD-9503GL, BD-9505GL, BD-9506GL, BD-9508GL, BD-9509GL
Additional Trade Name	N/A
Rating:	DC5.0V, By to PC
Modulation Type:	GFSK
Operation Frequency	2402-2480MHz
Antenna Designation	Printed antenna, which is built-in, designed as an indispensable part of the EUT.

1.4 Submitted Sample

1 Sample

1.5 Test Duration

2009-08-07 to 2009-08-21

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

Terry Tang

The sample tested by _____

Print Name: Terry Tang

Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2008-12-05	2009-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2008-12-05	2009-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2008-12-05	2009-12-04
Ultra Broadband ANT	Schwarebeck	VULB9163	9163/340	2009.2.22	2010-02-21
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2009-03-30	2010-03-29
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2009-02-18	2010-02-17
Power meter	Anritsu	ML2487A	6K00003613	2009-02-18	2010-02-17
Power sensor	Anritsu	MA2491A	32263	2009-02-8	2010-02-17
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2009-02-18	2010-02-17
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2008-08-16	2009-08-15
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2008-07-03	2009-07-02

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249

4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co.,Ltd

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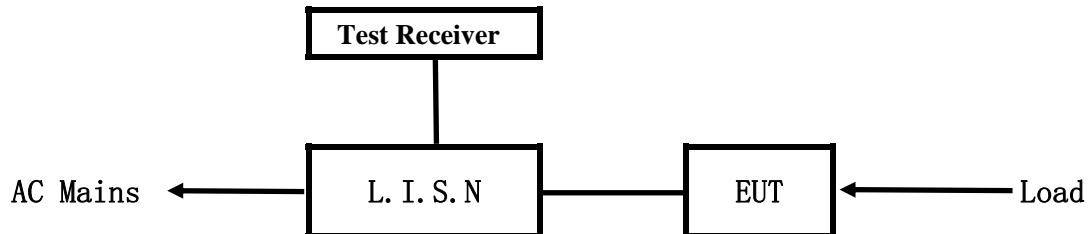
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

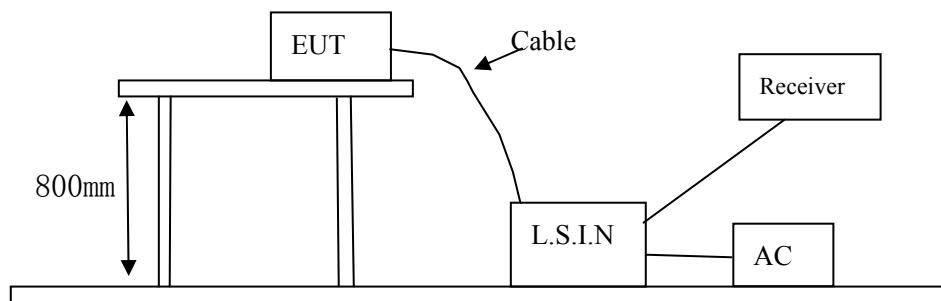


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
2.4G wireless optical mouse/	Shenzhen Xinbond Technology Co., LTD	BD-9409G	T94XINBOND9409GR

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency(MHz)	Class A Limits (dB μ V)		Class B Limits (dB μ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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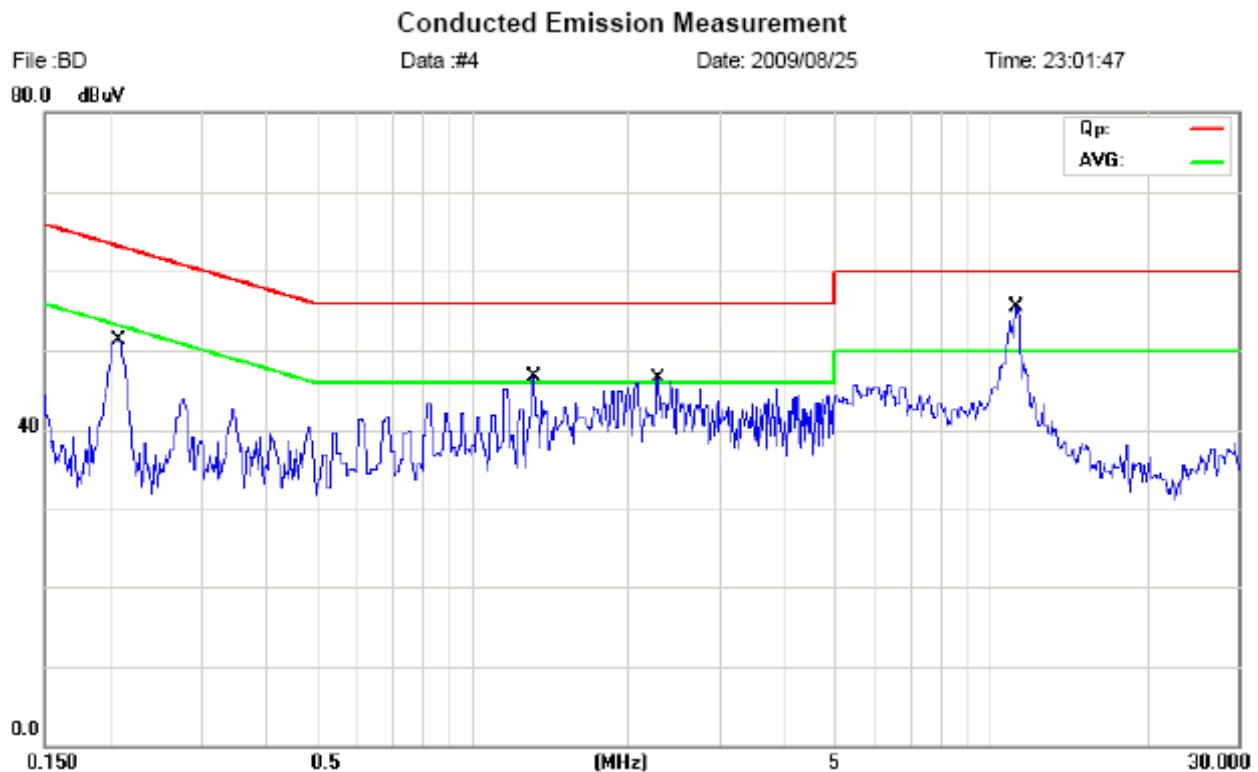


A Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
11.1920	49.98	33.58	--	--	60.00	50.00
1.3128	41.13	24.93	--	--	56.00	46.00
0.2076	51.56	30.06	--	--	63.30	53.30
2.2821	41.41	24.51	--	--	56.00	46.00

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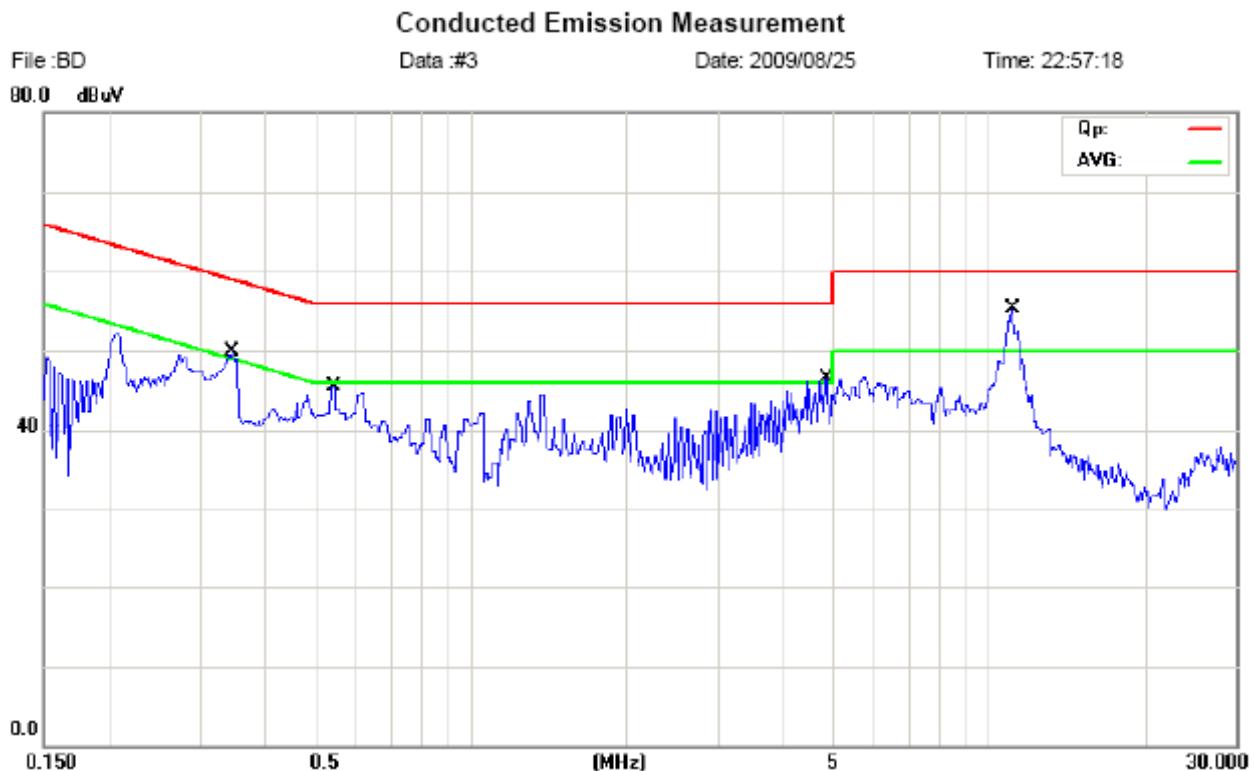


B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Keep Transmitting

Results: **Pass**

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB μ V)				Limit (dB μ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
11.0351	--	--	50.98	26.38	60.00	50.00
0.3448	--	--	39.91	38.01	59.09	49.09
0.5423	--	--	38.92	22.62	56.00	46.00
4.8330	--	--	44.63	30.73	56.00	46.00

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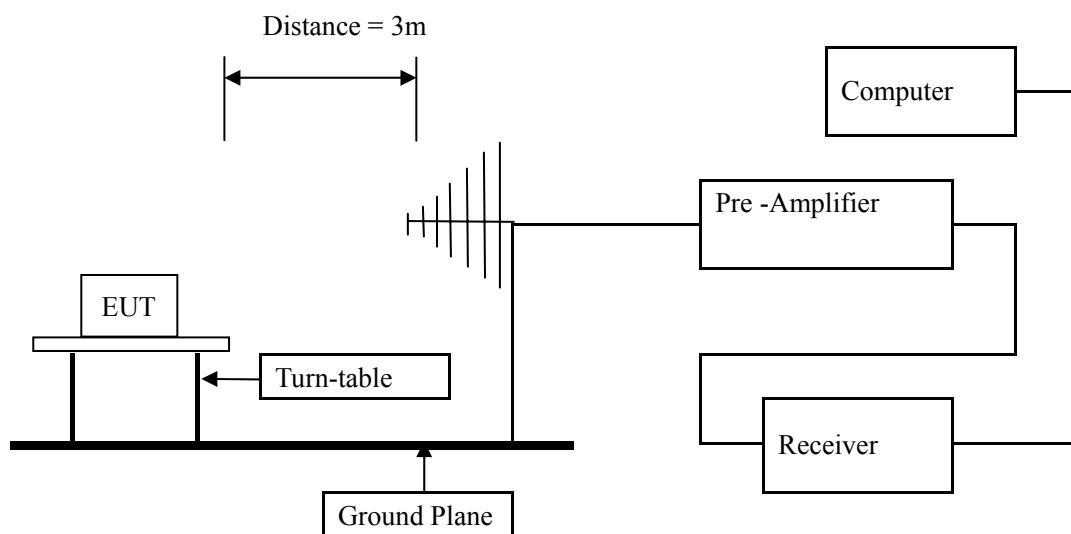


6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a RBW=VBW=1 MHz. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization : Vertical polarization and Horizontal polarization.

Block diagram of Test setup



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)		Field Strength of Harmonics (3m)	
	mV/m	dBuV/m	uV/m	dBuV/m
2400-2483.5	50	94 (Average)	114 (Peak)	500
				54 (Average) 74 (Peak)

Note: 1. RF Field Strength (dBuV) = $20 \log_{10} \text{RF Voltage (uV)}$

2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage (dBuV) = $20 \log_{10} \text{RF Voltage (uV)}$

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz. As to 1G-25G, the final emission level got using PK and AV detector.

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6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Product:	2.4G wireless optical mouse/2.4G wireless Laser mouse	Test Mode:	Low Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	5.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2402	63.79(PK)	H	114/94	-30.21
2402	67.50(PK)	V	114/94	-26.50
4804	--	H/V	74/54	--
7206	--	H/V	74/54	--
9608	--	H/V	74/54	--
12010	--	H/V	74/54	--
14412	--	H/V	74/54	--
16814	--	H/V	74/54	--
19216	--	H/V	74/54	--
21618	--	H/V	74/54	--
24020	--	H/V	74/54	--

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Product:	2.4G wireless optical mouse/2.4G wireless Laser mouse	Test Mode:	Middle Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	5.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2448	68.63(PK)	H	114/94	-25.37
2448	70.88(PK)	V	114/94	-23.12
4896	--	H/V	74/54	--
7344	--	H/V	74/54	--
9792	--	H/V	74/54	--
12240	--	H/V	74/54	--
14688	--	H/V	74/54	--
17136	--	H/V	74/54	--
19584	--	H/V	74/54	--
22032	--	H/V	74/54	--
24480	--	H/V	74/54	--

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Product:	2.4G wireless optical mouse/2.4G wireless Laser mouse	Test Mode:	High Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	5.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2480	67.61(PK)	H	114/94	-26.39
2480	70.13(PK)	V	114/94	-23.87
4960	--	H/V	74/54	--
7440	--	H/V	74/54	--
9920	--	H/V	74/54	--
12400	--	H/V	74/54	--
14880	--	H/V	74/54	--
17360	--	H/V	74/54	--
19840	--	H/V	74/54	--
22320	--	H/V	74/54	--
24800	--	H/V	74/54	--

Note: (1) PK= Peak, AV= Average

(2) Emission Level = Reading Level + Probe Factor + Cable Loss.

(3) Margin=Emission-Limits

(4) According to section 15.35(b), the peak limit is 20dB higher than the average limit

(5) The measured PK value less than the AV limit.

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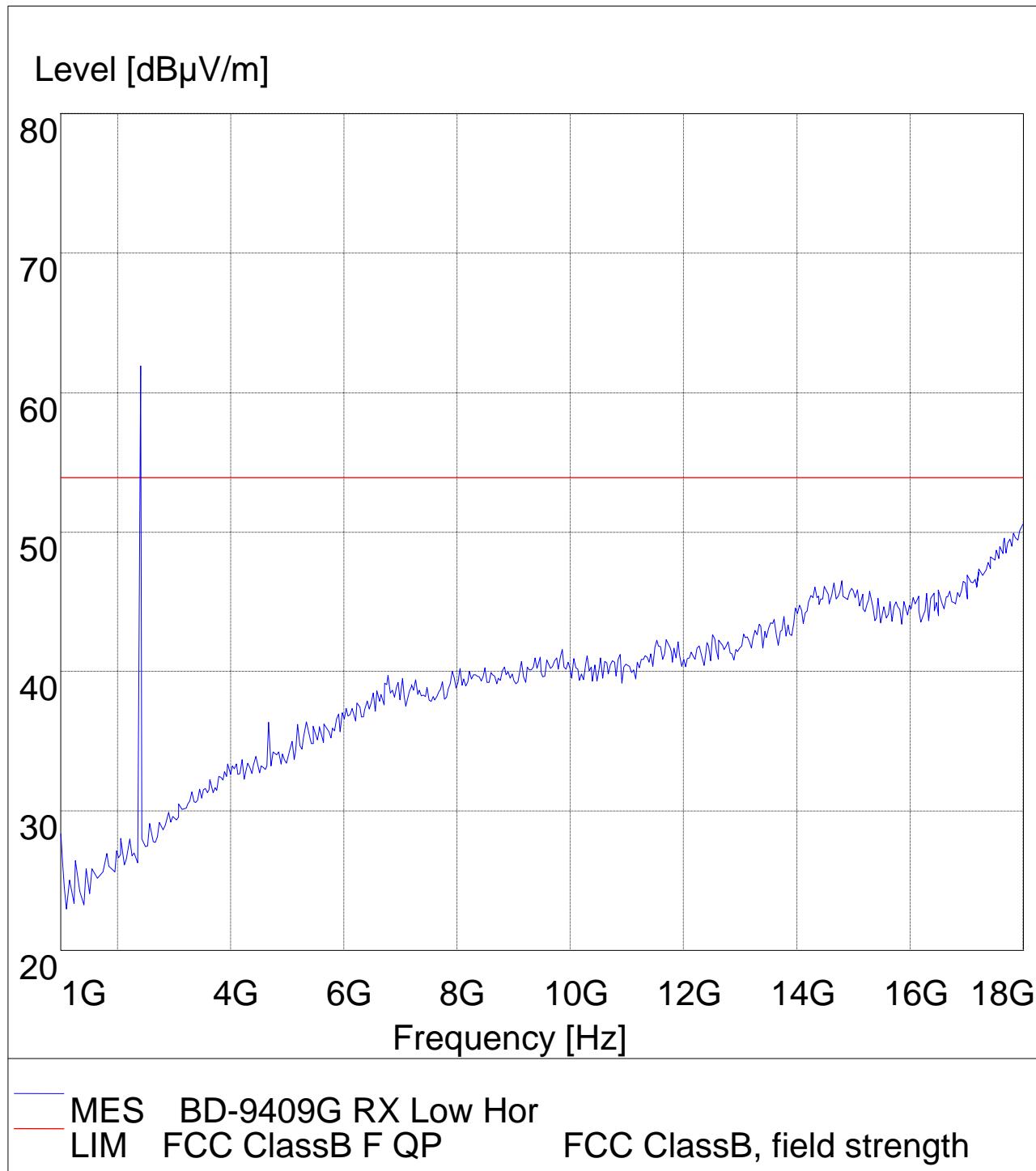
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Please refer to the following test plots for details:

Low Channel: Horizontal



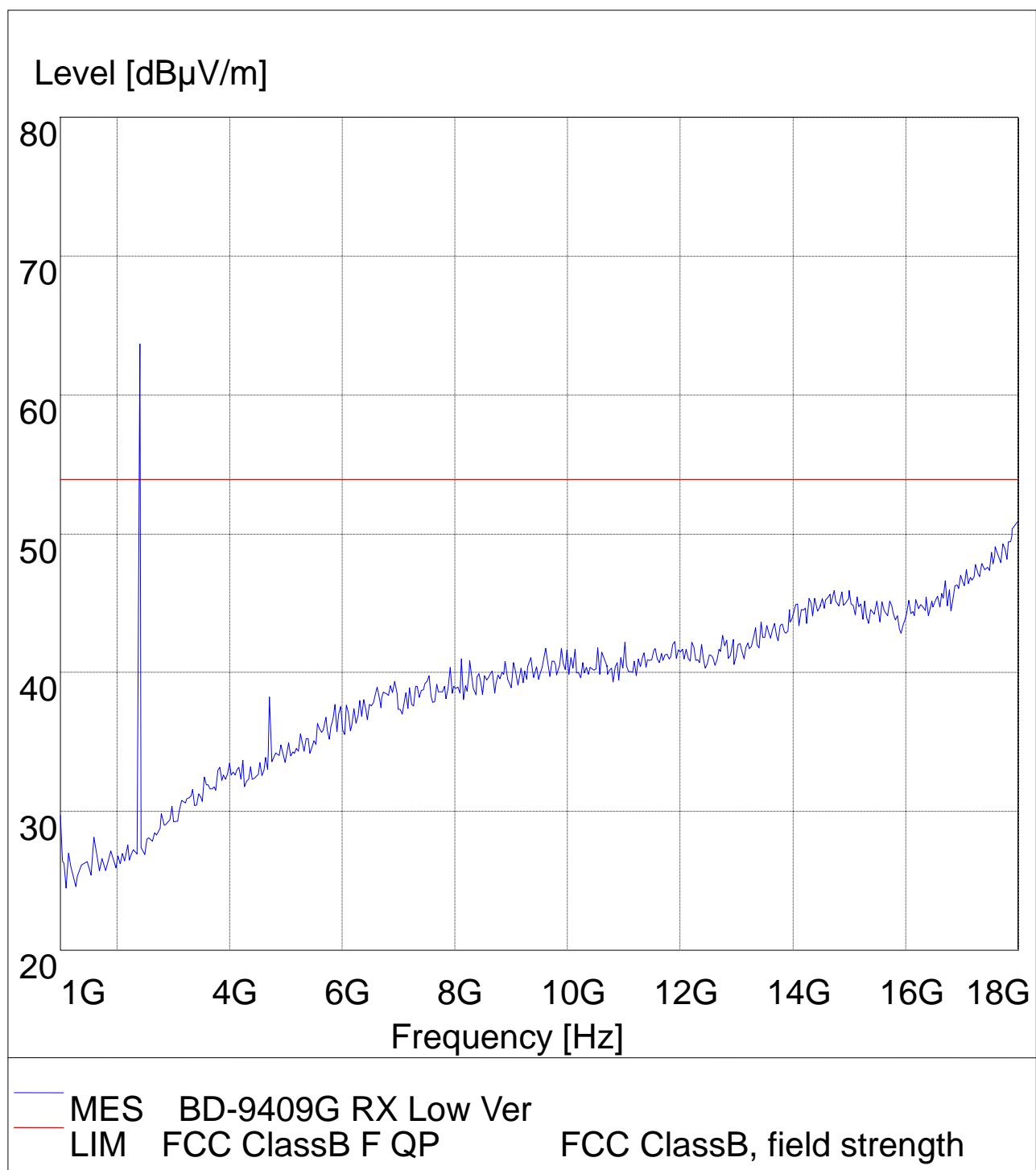
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Low Channel : Vertical



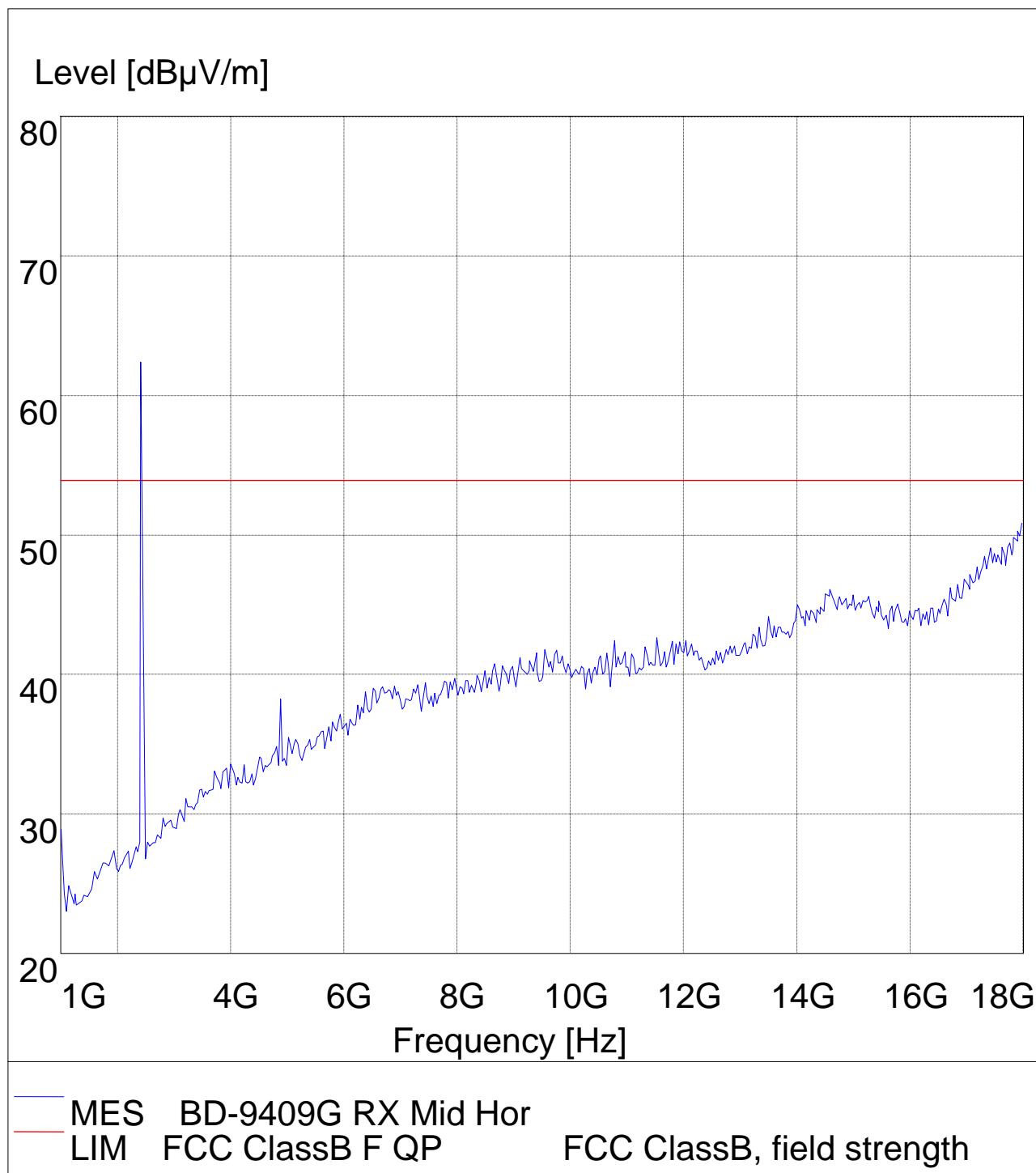
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Middle Channel : Horizontal



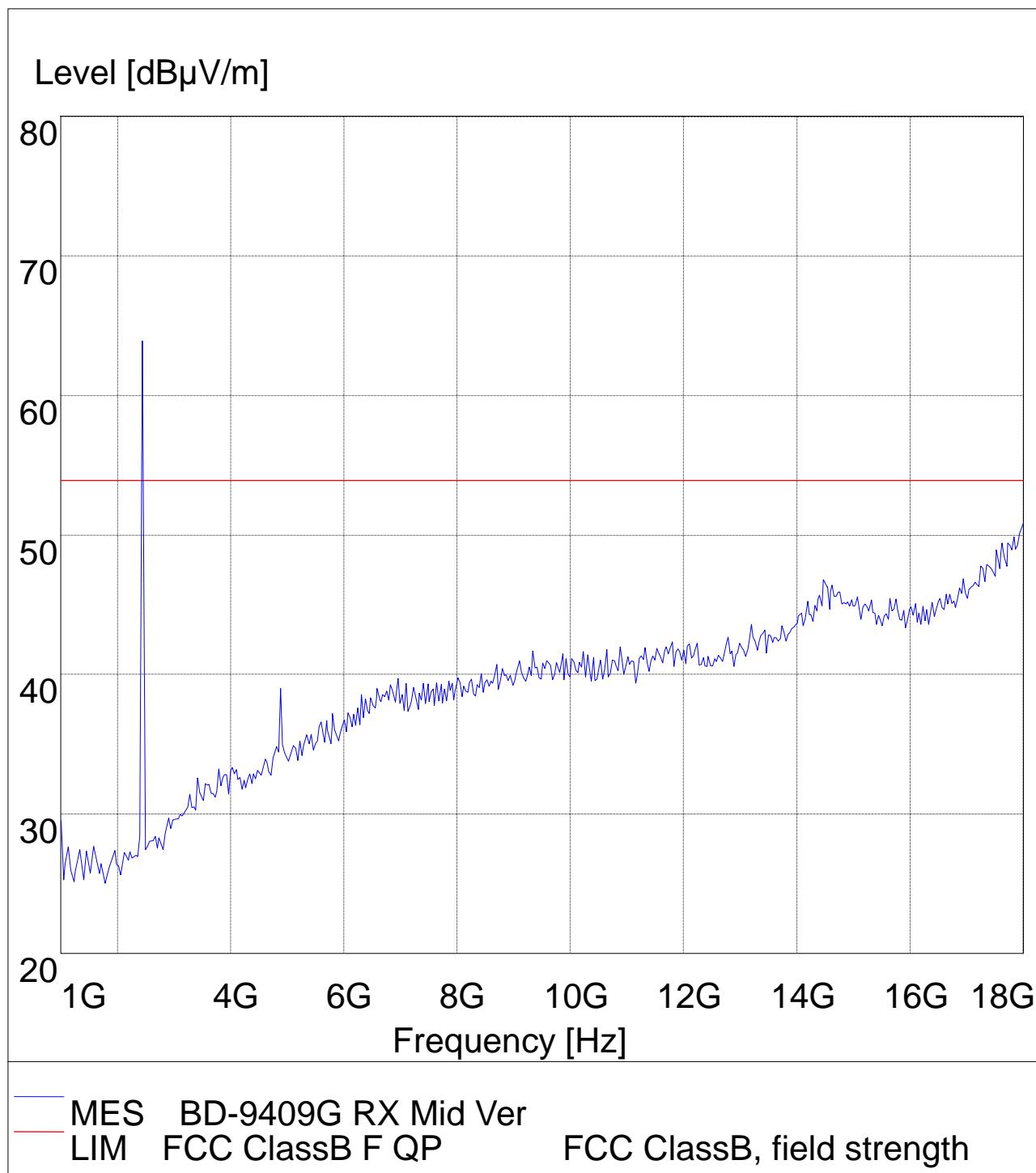
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Middle Channel :: Vertical



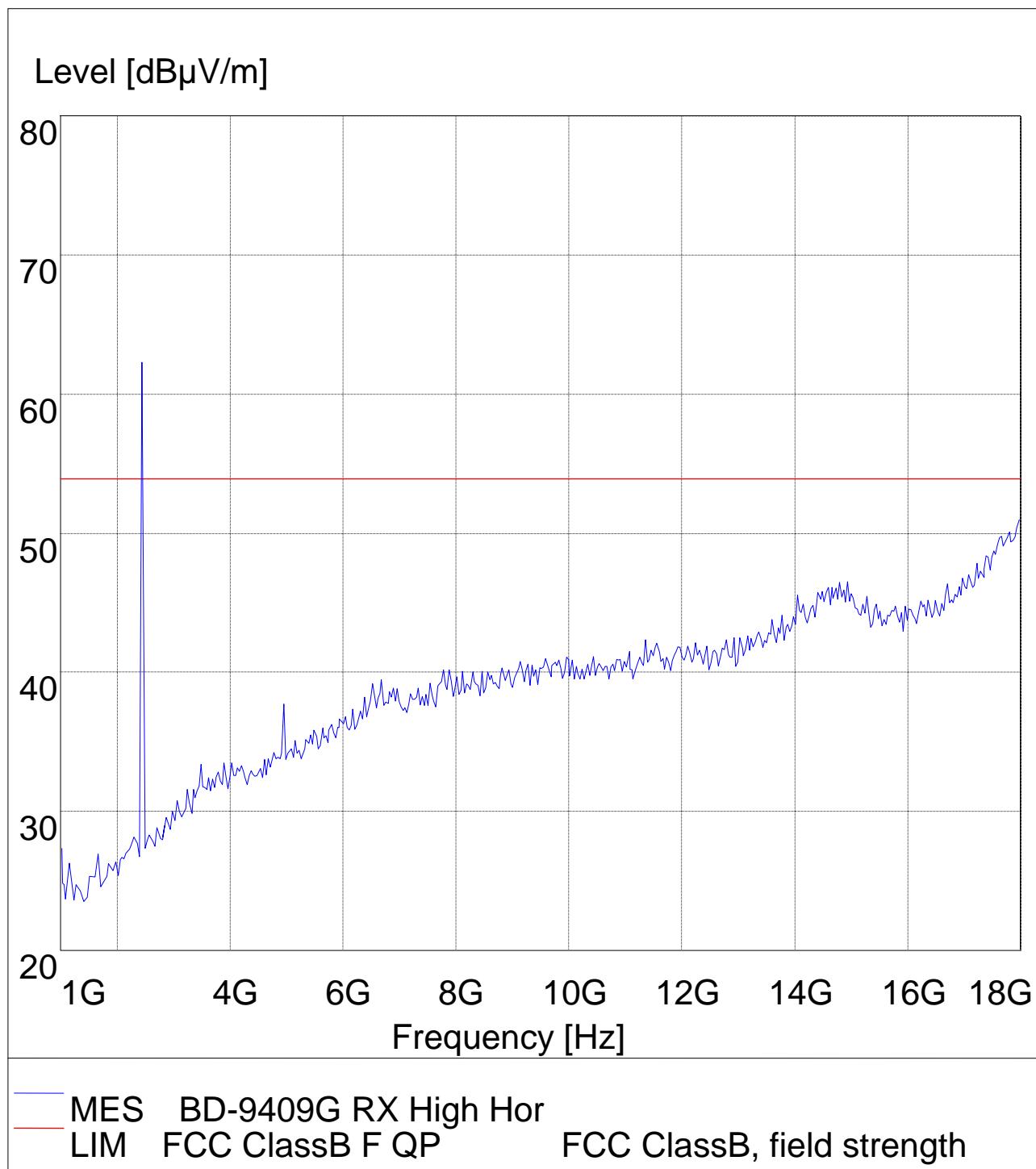
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High Channel : Horizontal



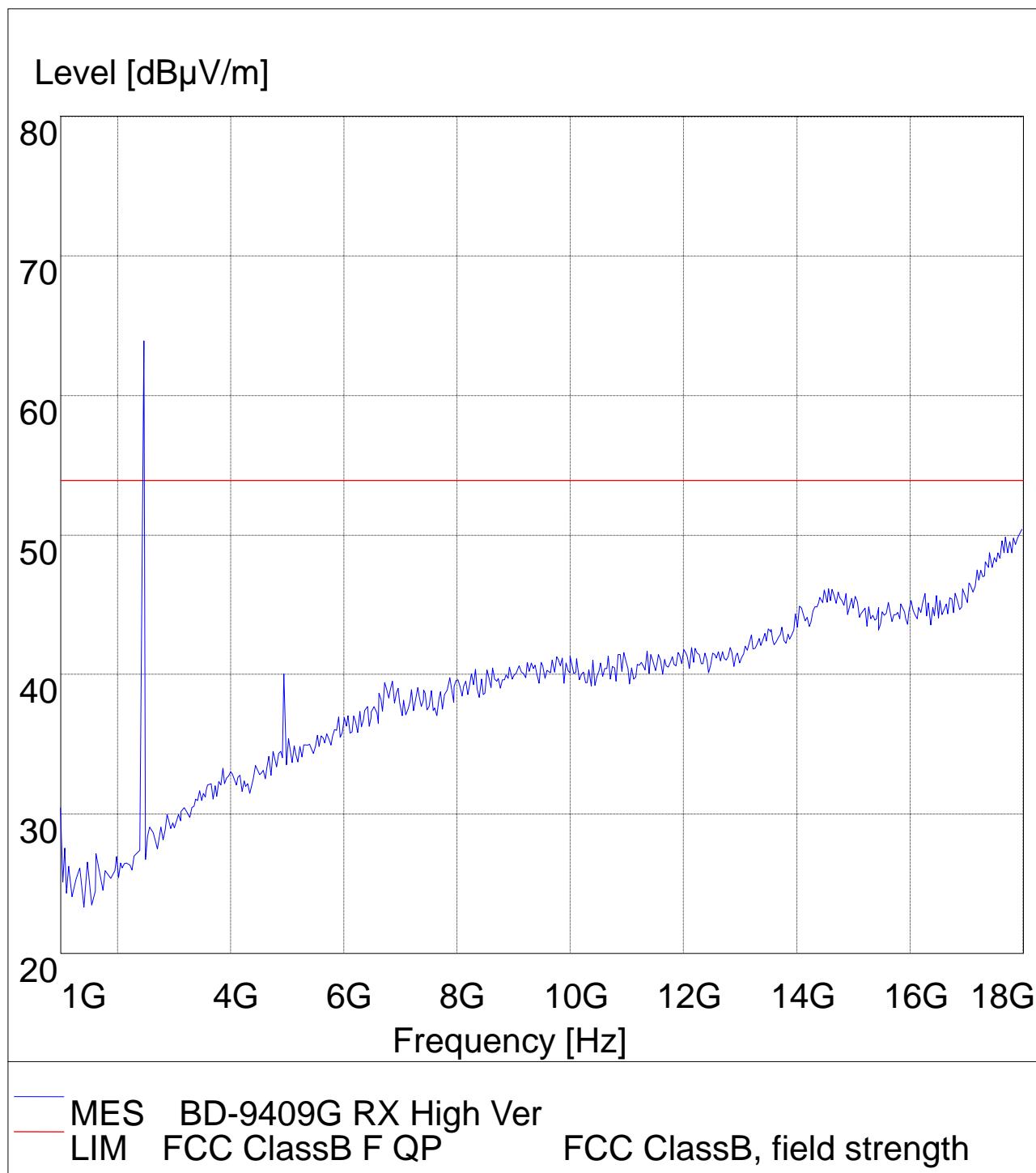
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High Channel : Vertical



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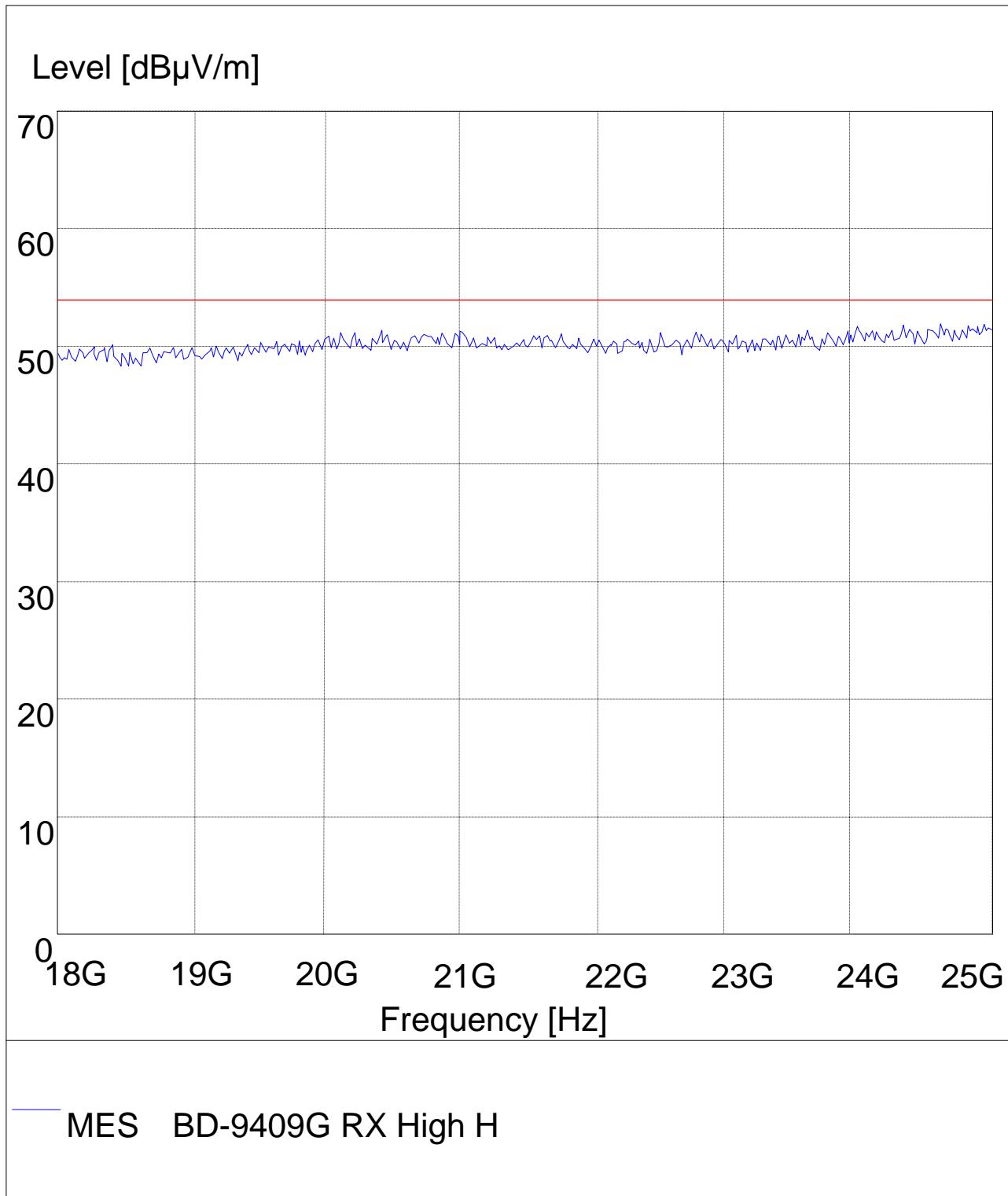
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18-25G

High Channel



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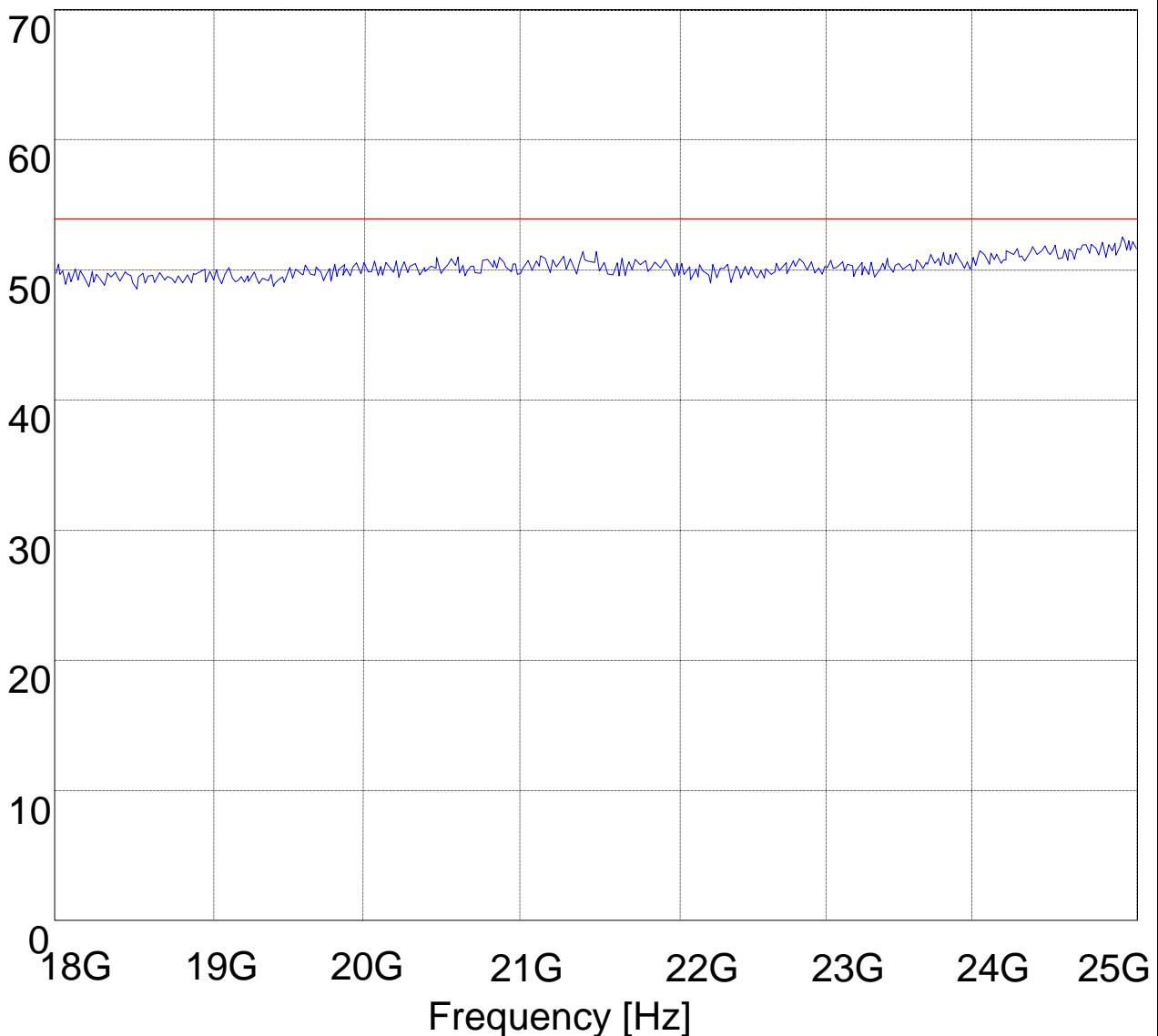
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18-25G

High Channel

Level [dB μ V/m]



MES BD-9409G RX High V

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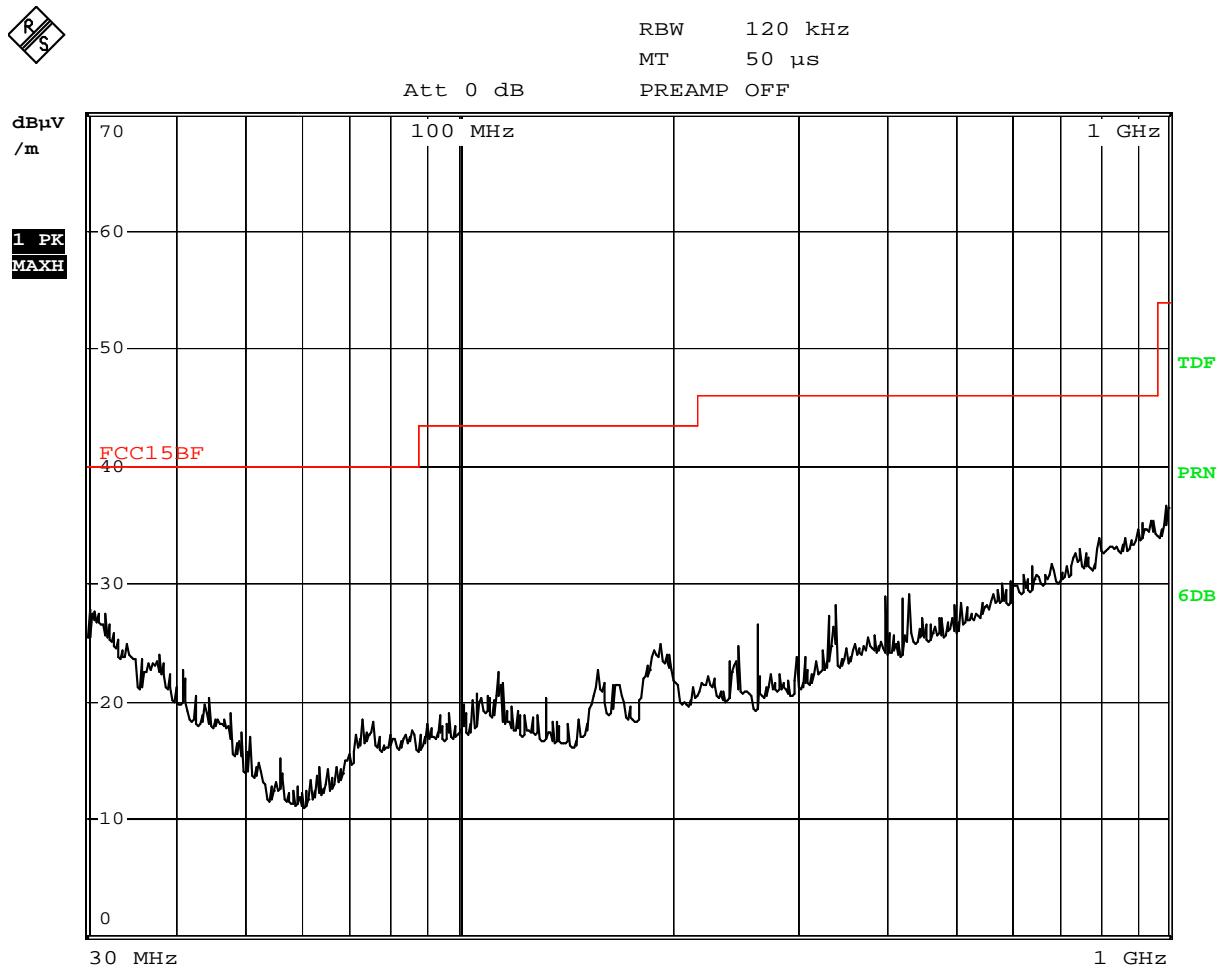
B. General Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep transmitting

Results: Pass

Please refer to following diagram for individual



Date: 25.AUG.2009 22:53:20

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
--	--	H	--

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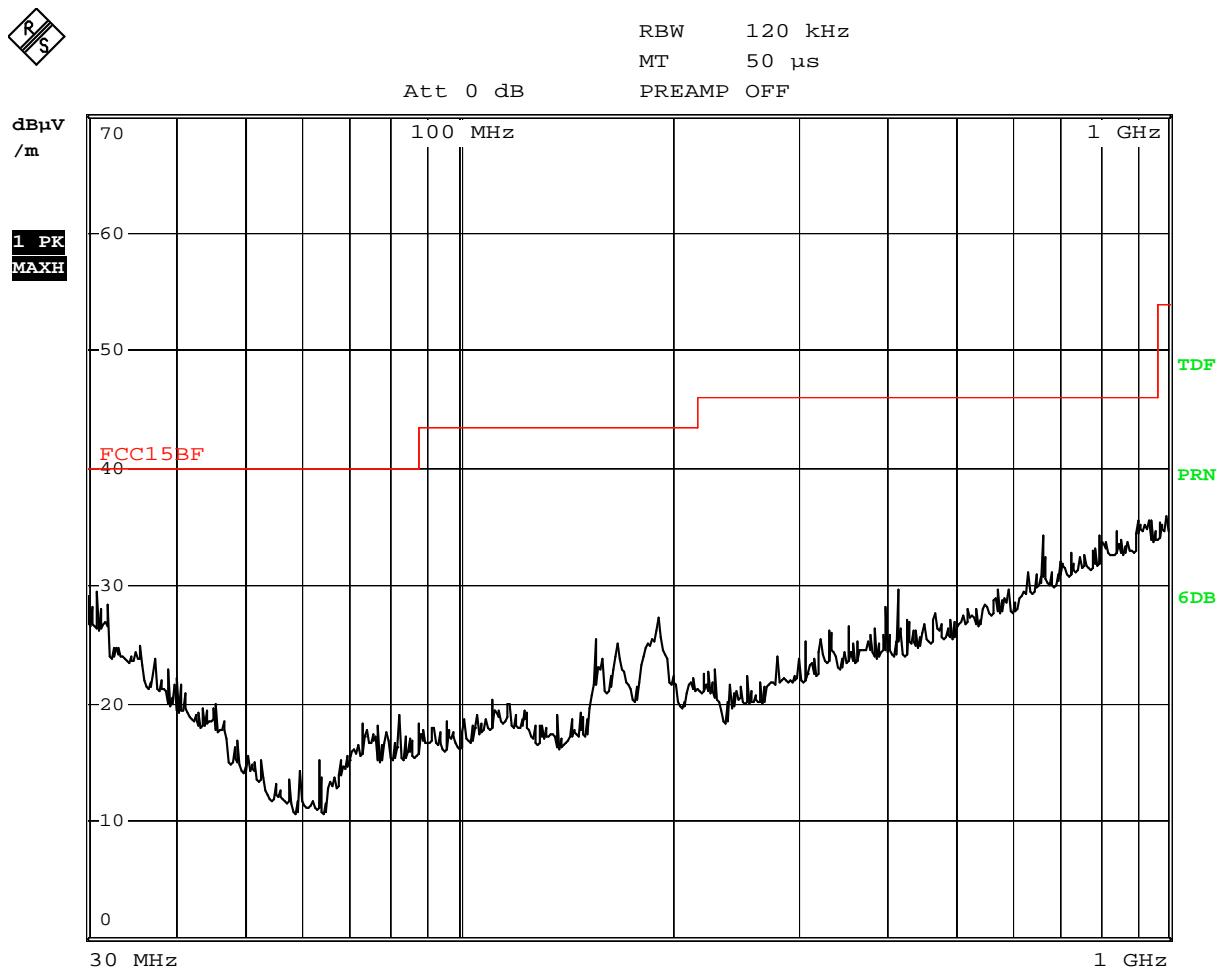


Radiated Emission In Horizontal (30MHz---1000MHz)

EUT set Condition: Keep transmitting

Results: Pass

Please refer to following diagram for individual



Date: 25.AUG.2009 22:53:08

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
--	--	V	--

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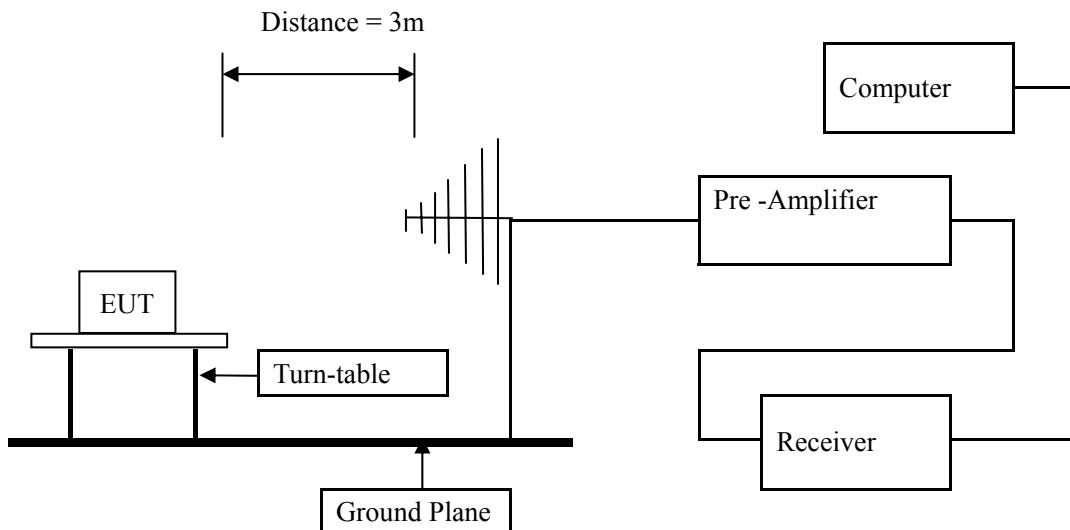


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) Set Spectrum as RBW=VBW=1MHz and Peak detector used
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7.2 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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7.6 Test Result

Product:	2.4G wireless optical mouse/2.4G wireless Laser mouse		Test Mode:	Low Channel	
Mode	Keeping Transmitting		Test Voltage	DC5V	
Temperature	24 deg. C		Humidity	56% RH	
Test Result:	Pass		Detector	PK	
2400MHz	PK (dB μ V/m)	Less than 30	Limit	74(dB μ V/m)	
	AV(dB μ V/m)	--		54(dB μ V/m)	
Marker 1 [T1] Ref Lvl 97 dB μ V			RBW	1 MHz	RF Att 0 dB
73.55 dB μ V 2.40236473 GHz			VBW	1 MHz	
			SWT	5 ms	Unit dB μ V
			▼1 [T1]	73.55 dB μ V	A
			▼2 [T1]	2.40236473 GHz 26.23 dB μ V 2.39000000 GHz	
			1	1MA	
Start 2.31 GHz Date: 18.AUG.2009 22:18:33			11 MHz/	Stop 2.42 GHz	

Note: Field Strength in restrict band measured in conventional manner

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Product:	2.4G wireless optical mouse/2.4G wireless Laser mouse		Test Mode:	High Channel		
Mode	Keeping Transmitting		Test Voltage	DC5V		
Temperature	24 deg. C,		Humidity	56% RH		
Test Result:	Pass		Detector	PK		
2483.5MHz	PK (dB μ V/m)	Less than 40	Limit	74(dB μ V/m)		
	AV(dB μ V/m)	--		54(dB μ V/m)		
Marker 1 [T1]			RBW	1 MHz	RF Att	0 dB
Ref Lv1 97 dB μ V			VBW	1 MHz		
76.21 dB μ V 2.48026052 GHz			SWT	5 ms	Unit	dB μ V
						A
97 90 80 70 60 50 40 30 20 10 0 -3						
Start 2.475 GHz 2.5 MHz/ Stop 2.5 GHz						
Date: 18.AUG.2009 22:16:09						

Note: Field Strength in restrict band measured in conventional manner

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8.0 Antenna Requirement

Applicable Standard

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB permanent antenna, fulfill the requirement of this section.

Test Result: Pass

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9.0 20dB Bandwidth Measurement

Product:	2.4G wireless optical mouse/2.4G wireless Laser mouse	Test Mode:	Low Channel	
Mode	Keeping Transmitting	Test Voltage	DC5.0V	
Temperature	24 deg. C,	Humidity	56% RH	
Test Result:	Pass	Detector	PK	
20dB Bandwidth	1.170MHz	--	--	
Ref Lvl 1 97 dB μ V		Delta 1 [T1] -0.07 dB 1.17034068 MHz	RBW 100 kHz VBW 100 kHz SWT 5 ms	RF Att 0 dB Unit dB μ V
Center 2.402188377 GHz 400 kHz/ Span 4 MHz				
Date: 18.AUG.2009 22:20:53				

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9.1 20dB Bandwidth Measurement

Product:	2.4G wireless optical mouse/2.4G wireless Laser mouse	Test Mode:	Middle Channel			
Mode	Keeping Transmitting		Test Voltage	DC5.0V		
Temperature	24 deg. C,		Humidity	56% RH		
Test Result:	Pass		Detector	PK		
20dB Bandwidth	1.202MHz		--	--		
Delta 1 [T1] Ref Lvl 1 0.04 dB 97 dB μ V RBW 100 kHz 1.20240481 MHz VBW 100 kHz SWT 5 ms Unit dB μ V						
Center 2.448252505 GHz Span 4 MHz						
Date: 18.AUG.2009 22:22:39						

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9.2 20dB Bandwidth Measurement

Product:	2.4G wireless optical mouse/2.4G wireless Laser mouse	Test Mode:	High Channel			
Mode	Keeping Transmitting		Test Voltage	DC5.0V		
Temperature	24 deg. C,		Humidity	56% RH		
Test Result:	Pass		Detector	PK		
20dB Bandwidth	1.182MHz		--	--		
Ref Lvl 1 97 dB μ V Delta 1 [T1] 0.60 dB 1.18236473 MHz RBW 100 kHz VBW 100 kHz SWT 5 ms RF Att 0 dB Unit dB μ V						
Center 2.480204409 GHz Span 4 MHz						
Date: 18.AUG.2009 22:14:18						

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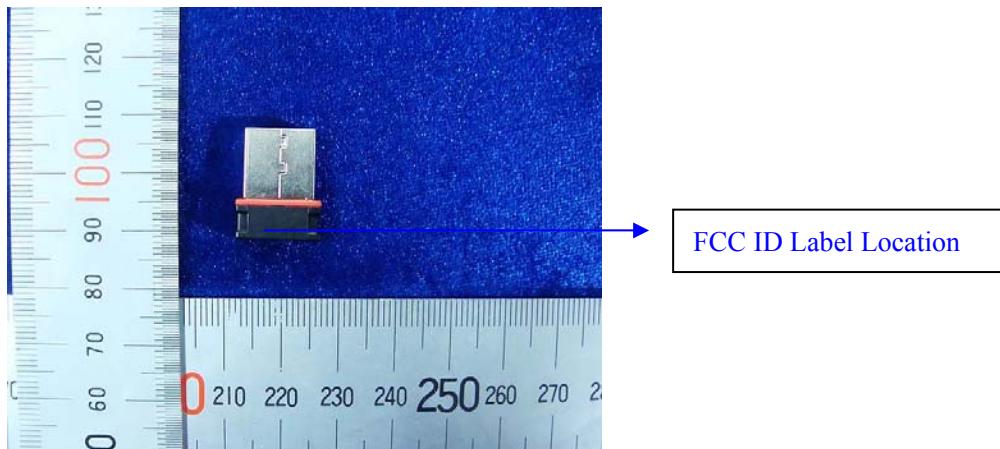
10.0 FCC ID Label

FCC ID: T94XINBOND9409GR

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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11.0 Photo of testing

11.1 Conducted test View--



11.2 Radiated emission test view



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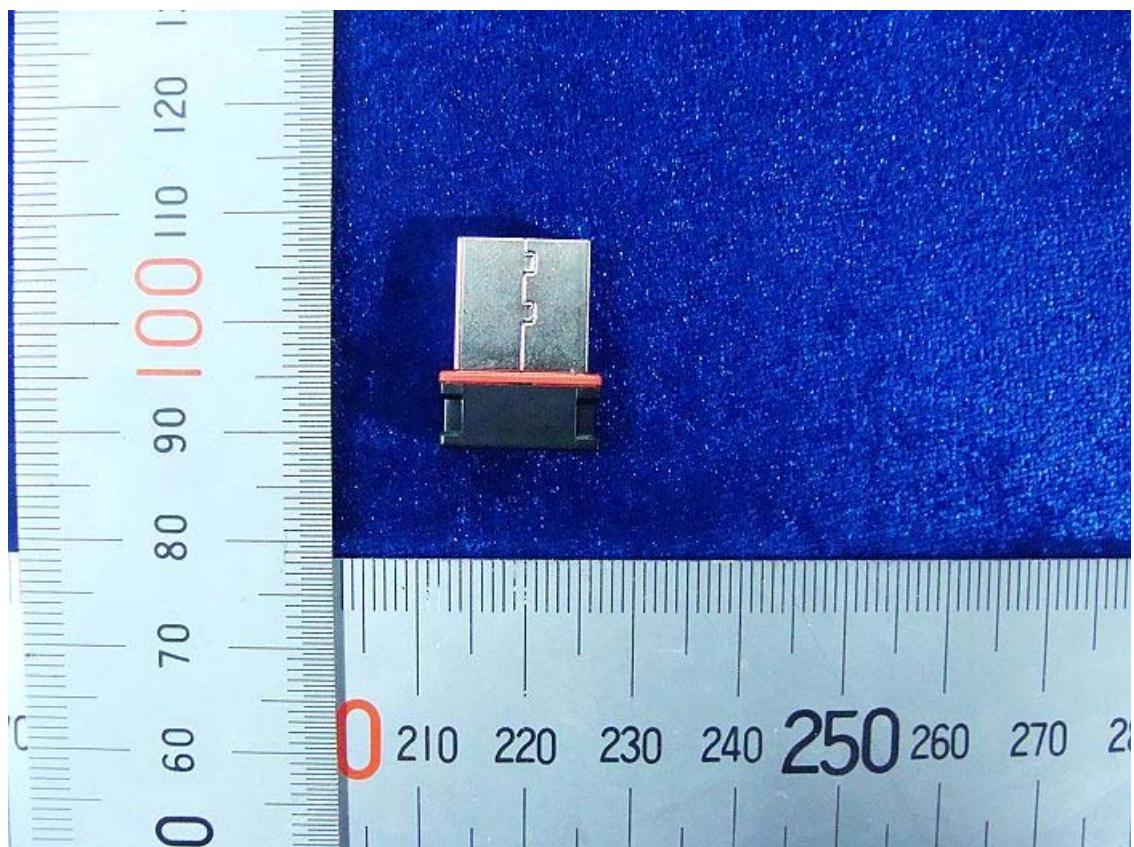
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11.3 Photo for the EUT

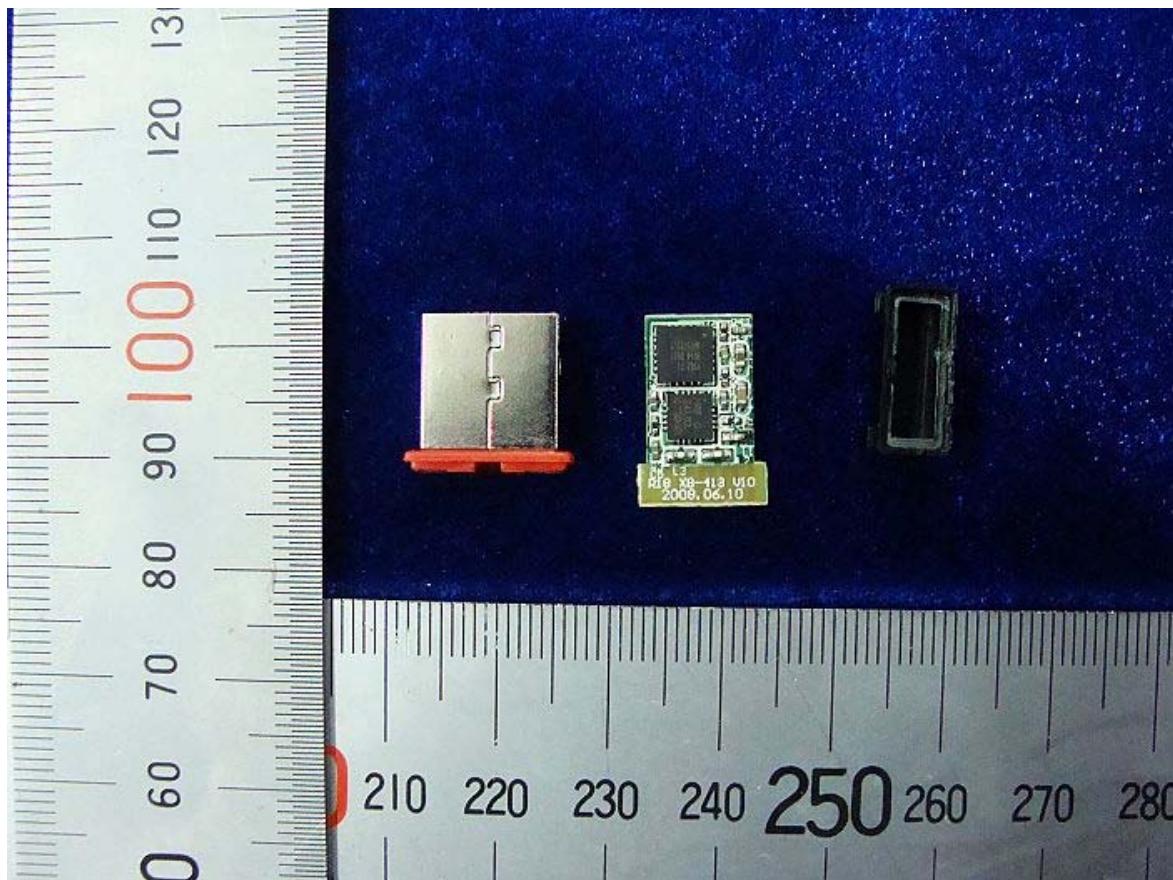
Outside View



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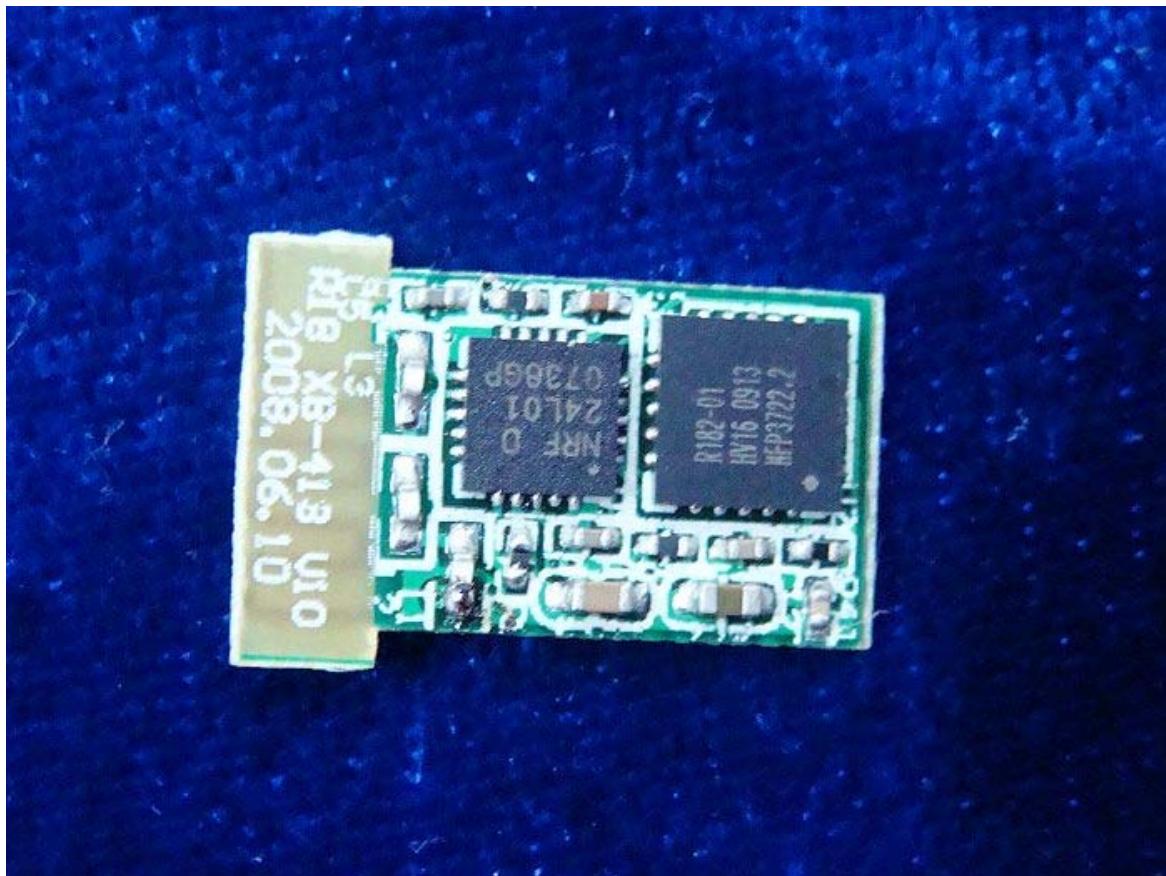
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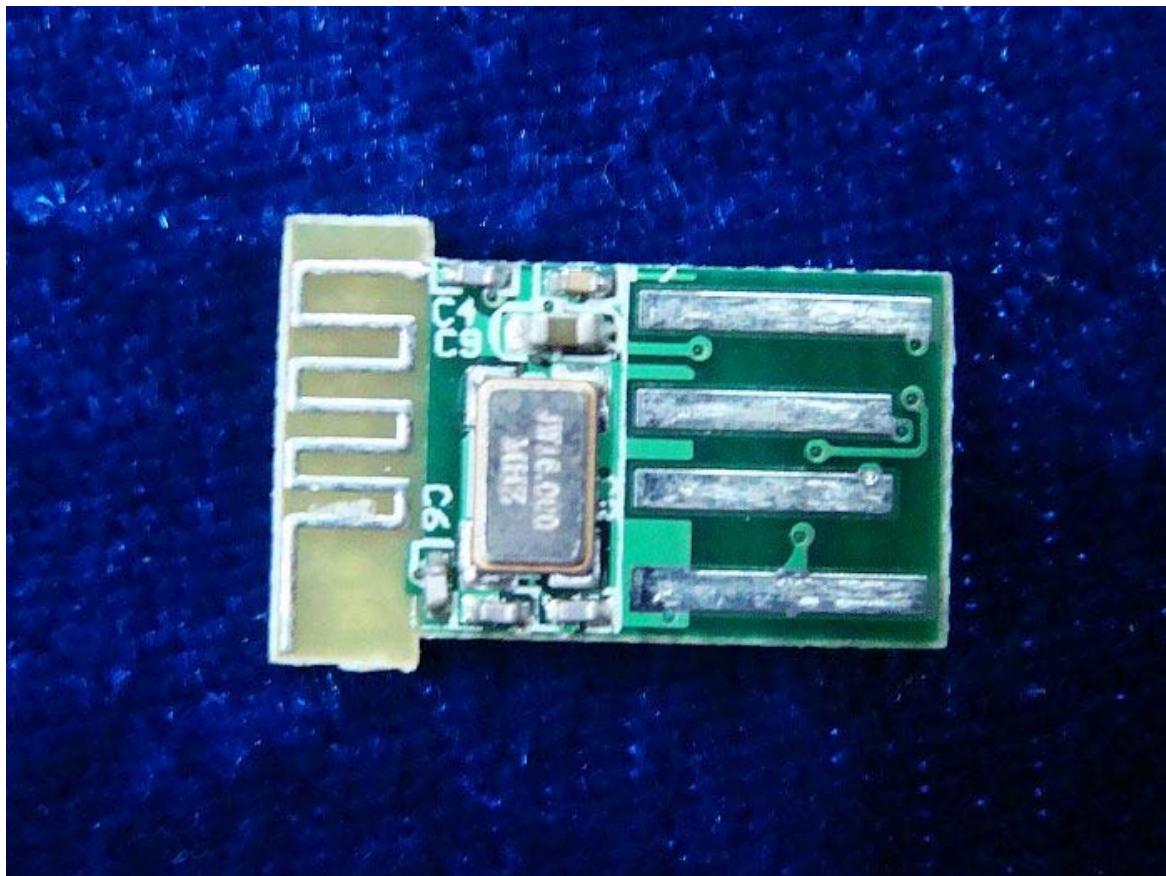
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--End of the report--

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