



卓時檢測
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No: FCC0908041-03

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

Trademark: N/A

Test Standards: FCC Part 15 Subpart B: 2008

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 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
Content

1.0	General Details	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Test Uncertainty	4
1.5	Submitted Sample	4
1.6	Test Duration	4
2.0	List of Measurement Equipment	5
2.1	Conducted Emission Test	5
2.2	Radiated electromagnetic disturbance test	5
2.3	Auxiliary Equipment	5
3.0	Technical Details	7
3.1	Investigations Requested	7
3.2	Test Standards	7
4.0	Power line Conducted Emission Test	8
5.0	Radiated Disturbance Test	19
6.0	FCC ID Label	28
7.0	Photo of testing	29

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1.0 General Details

1.1 Test Lab Details

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

1.2 Applicant Details

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

1.3 Description of EUT

Product: 2.4G wireless optical mouse
Manufacturer: Shenzhen Xinbond Technology Co., LTD
Brand Name: N/A
Model Number: BD-9409G
Additional Model Number: BD-9408G, BD-9388G, BD-9401G, BD-9402G, BD-9403G, BD9405G, BD-9406G, BD-9502GL, BD-9501GL, BD-9503GL, BD-9505GL, BD-9506GL, BD-9508GL, BD-9509GL
Rating: DC5.0V, By to PC

1.4 Submitted Sample: 1 Sample

1.5 Test Duration: 2009-08-07 to 2009-08-21

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB
Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

The sample tested by

A handwritten signature in black ink, appearing to read 'Terry Tong', is positioned above a horizontal line.

Print Name: Terry Tong

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2.0 List of Measurement Equipment

2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2009.2.23	1 Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
LISN	NTFM8132	8132137	SCHWARZBECK	2009.2.24	1 Year
LISN	NTFM8134	8134109	SCHWARZBECK	2009.2.24	1 Year
LISN	NTFM8136	8136102	SCHWARZBECK	2009.2.24	1 Year

2.2 Radiated electromagnetic disturbance test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESCS30	830245/009	RS	2009.2.23	1 Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer(with Tracking Generator)	MS2661C	MT72089	ANRITSU	2009.2.23	1 Year
Amplifier	MH648A	M20494	ANRITSU	2009.2.24	1 Year
Bilog Antenna	CBL6101C	2576	CHASE	2009.2.23	1 Year

2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Cable	FCC ID/DOC
Printer	LaserJet 1015	CNFG029476	HP	Data cable of 2m length unshielded and 1.8m length AC Mains cable	DOC
Printer	LaserJet 1022	CN BG591GM7	HP	Data cable of 2m length unshielded and 1.8m length AC Mains cable	DOC
Monitor	FP51G	ET47604175CLO	BENQ	Data cable of 1.5m length unshielded and 1.8m length AC	FCC DOC

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				Mains cable	
Monitor	6331-4CN	23-DNWX3	IBM	Data cable of 1.5m length unshielded and 1.8m length AC Mains cable	FCC DOC
Notebook	Vostro 1310	--	DELL	--	FCC DOC
Earphone	HS555DS	--	SUTAIN	1.5m length unshielded cable	--

3.0 Technical Details

3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

FCC Part 15 Subpart B: 2008

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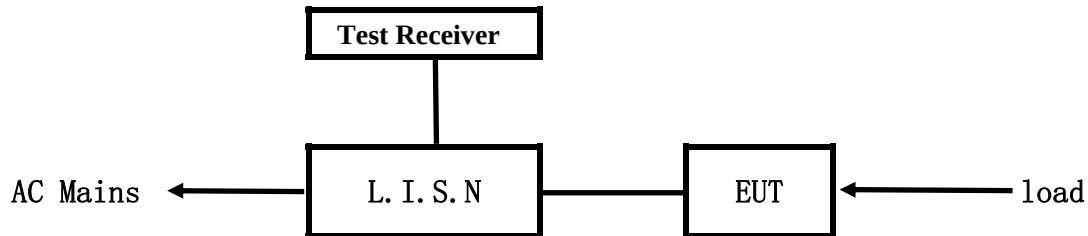
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4.0 Conducted Power line Test

4.1 Schematics of the test



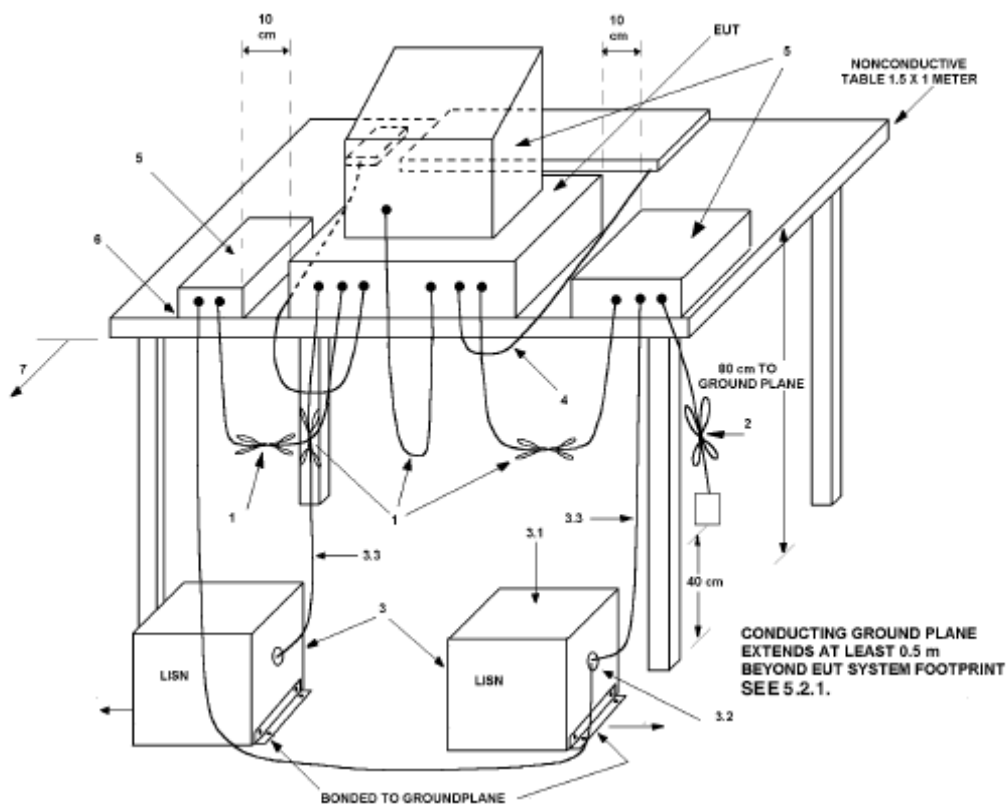
EUT: Equipment Under Test

4.2 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. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Actual Working Voltage and Frequency: 120V~, 60Hz

Block diagram of Test setup



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4.3 Power line conducted Emission Limit

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	79.00	66.00	66.00~56.00*	56.00~46.00*
0.50 ~ 5.00	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

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

4.4 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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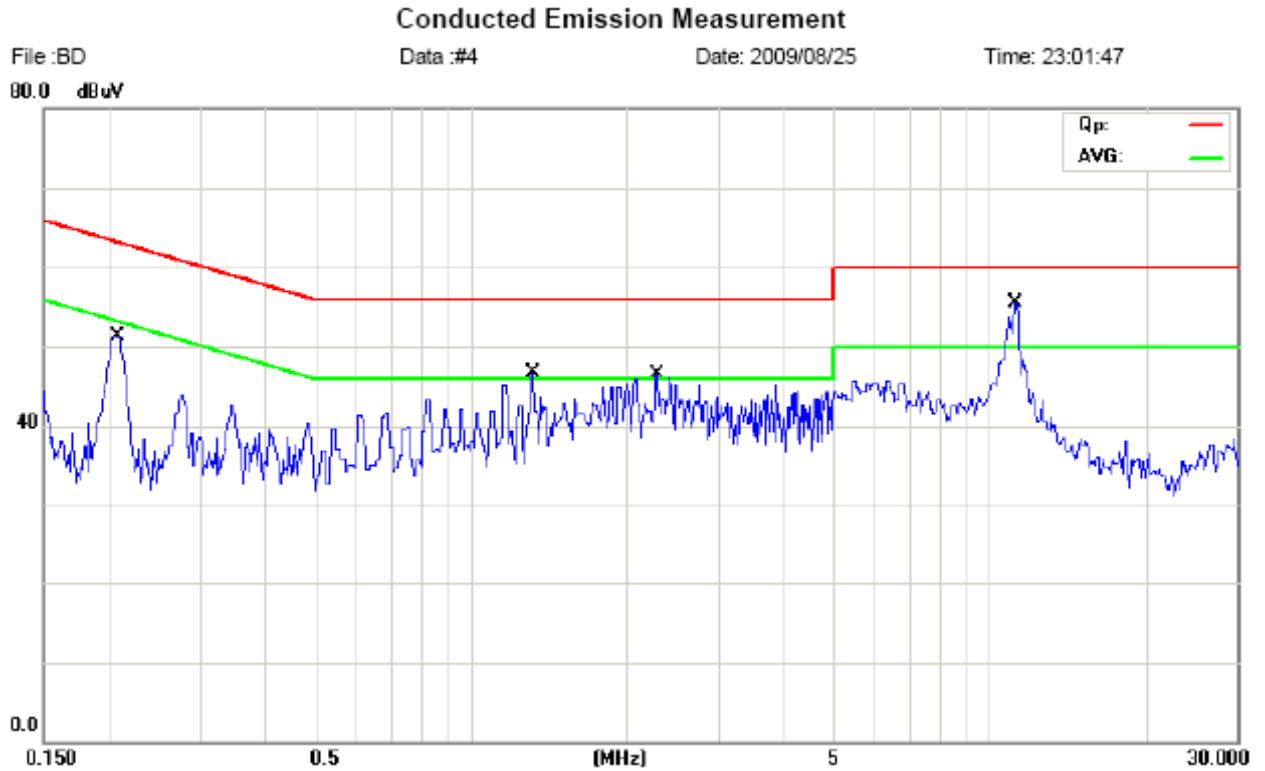


A Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)

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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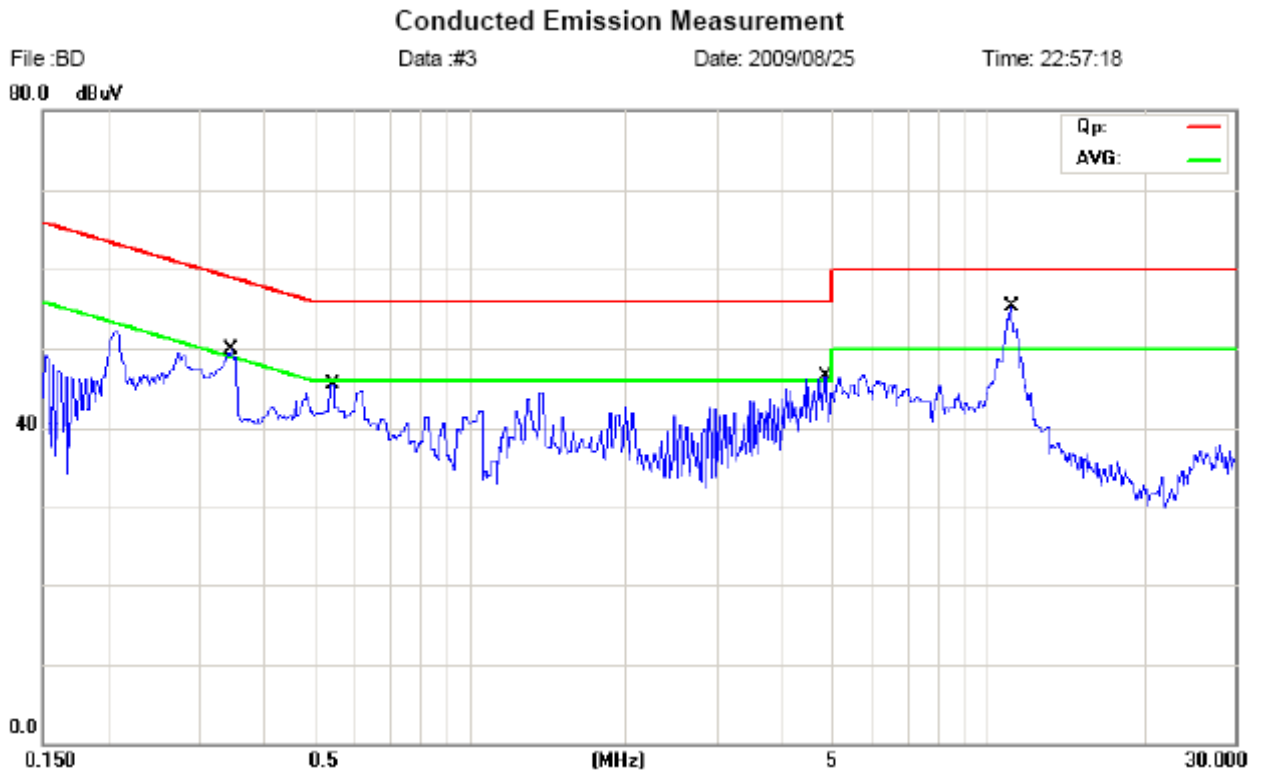


B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

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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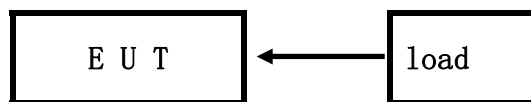
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5.0 Radiated Disturbance Test

5.1 Schematics of the test

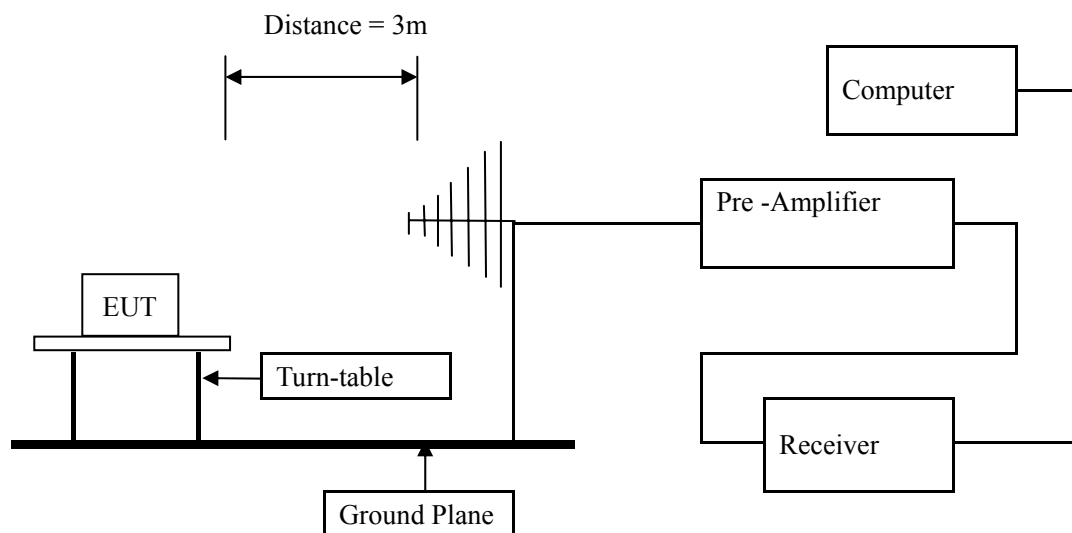


5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2003, The frequency spectrum from 30MHz to 5GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

Actual Working Voltage and Frequency: 120V~, 60Hz

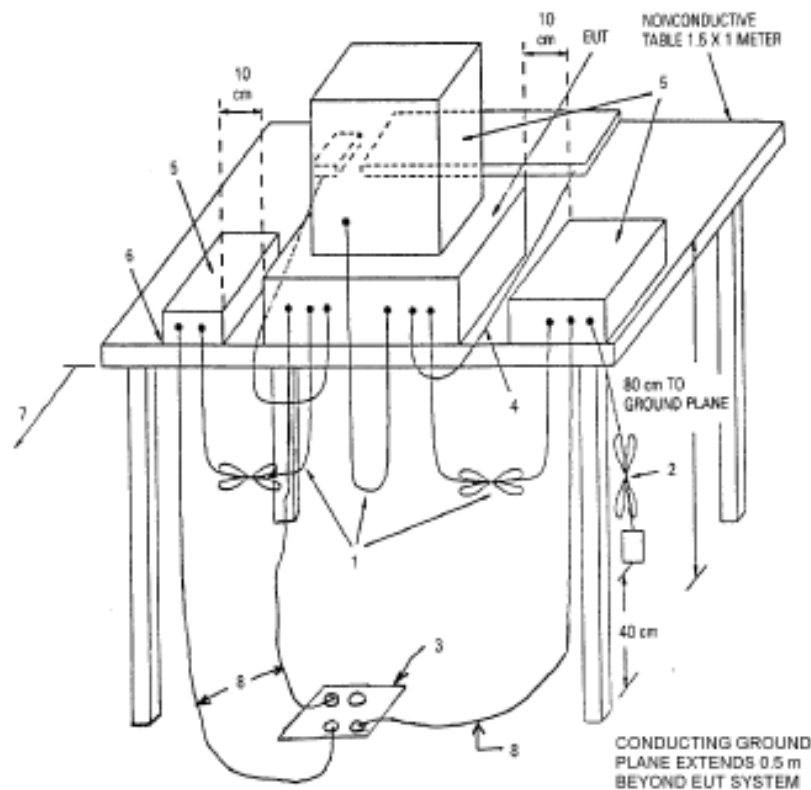
Block diagram of Test setup



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5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

5.4 Test result

The frequency spectrum from 30MHz to 5GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120KHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK. Measurements were made at 3 meters.

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A. General Radiated Emission Data
Radiated Emission In Horizontal (30MHz----1000MHz)

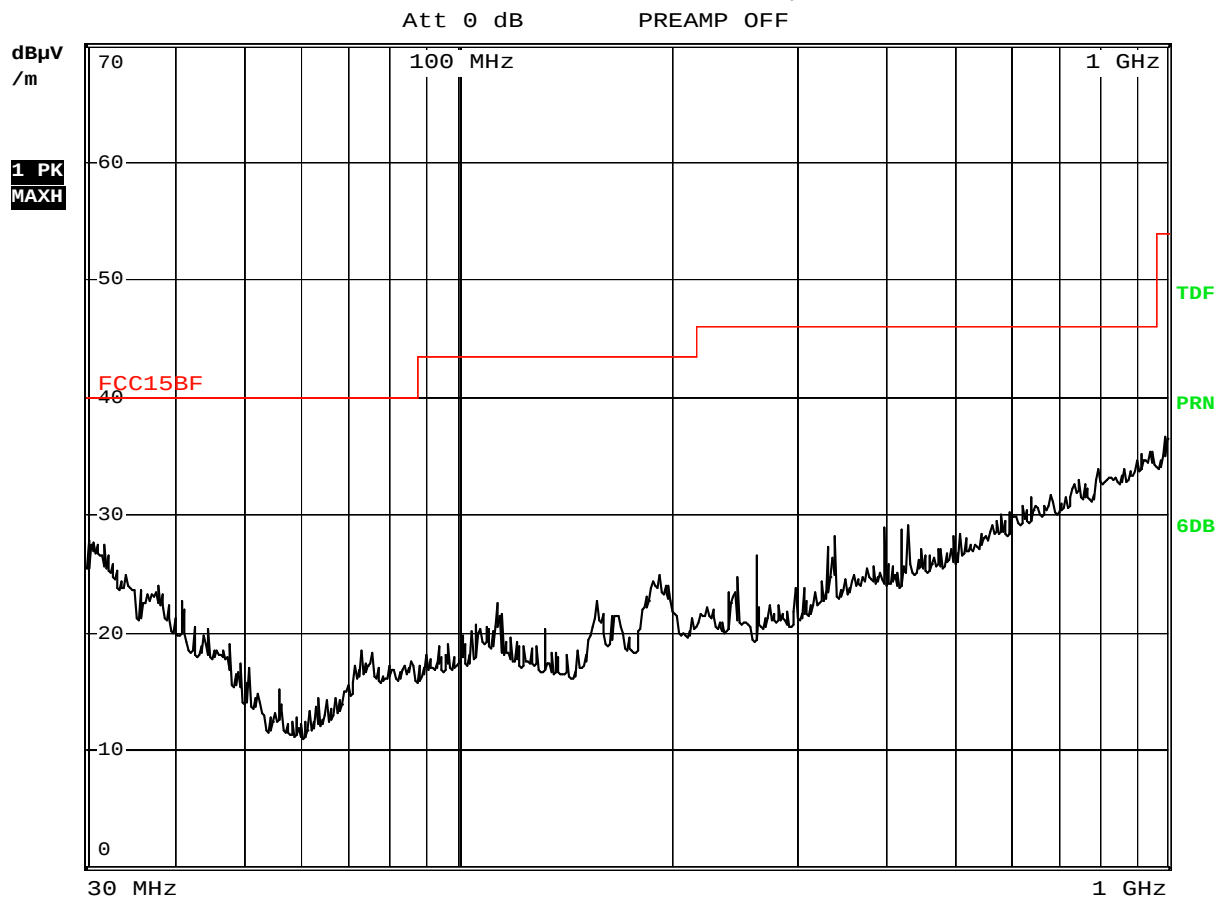
EUT set Condition: Keep transmitting

Results: Pass

Please refer to following diagram for individual



RBW 120 kHz
MT 50 μ s
PREAMP OFF



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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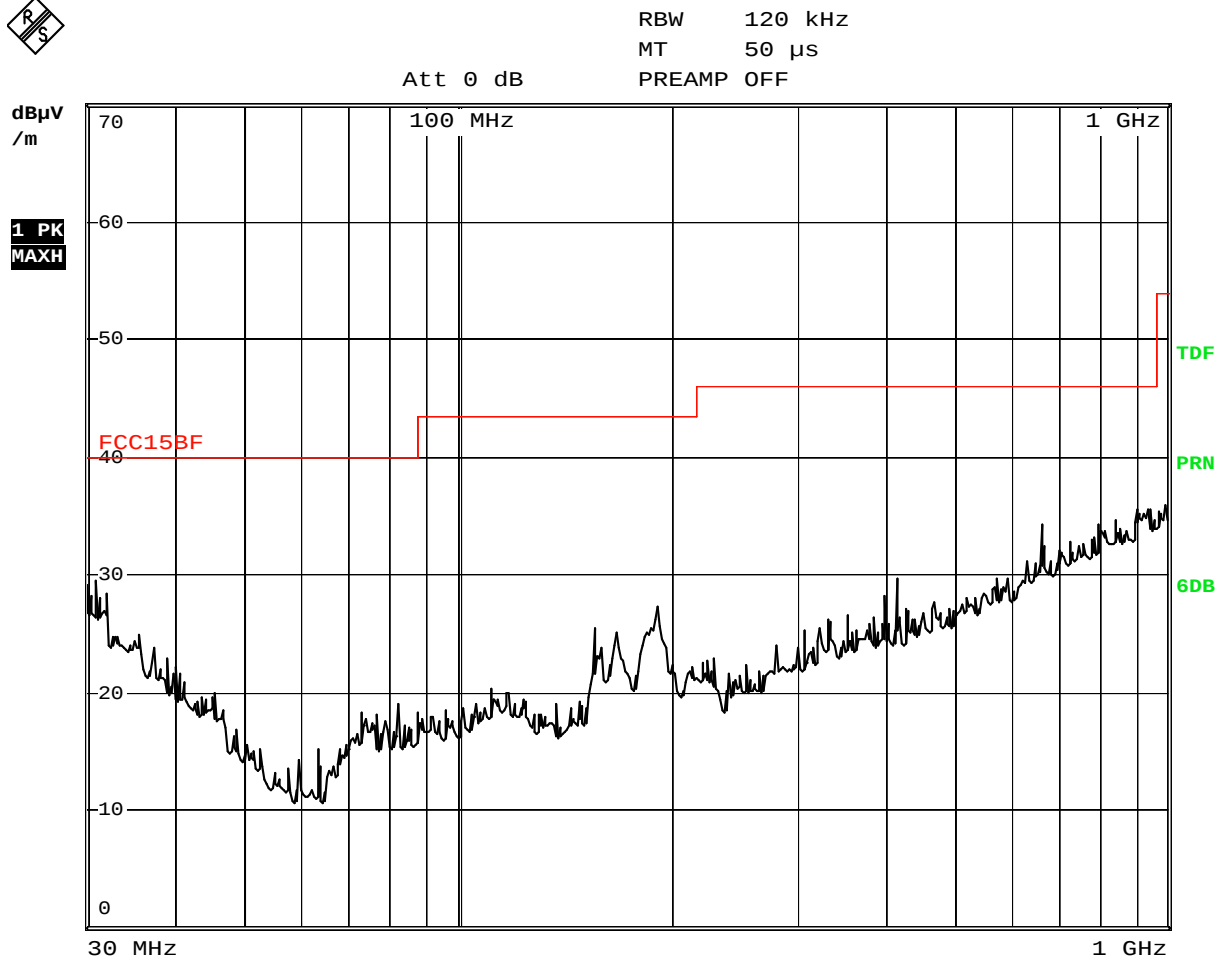


B Radiated Emission In Horizontal (30MHz----1000MHz)

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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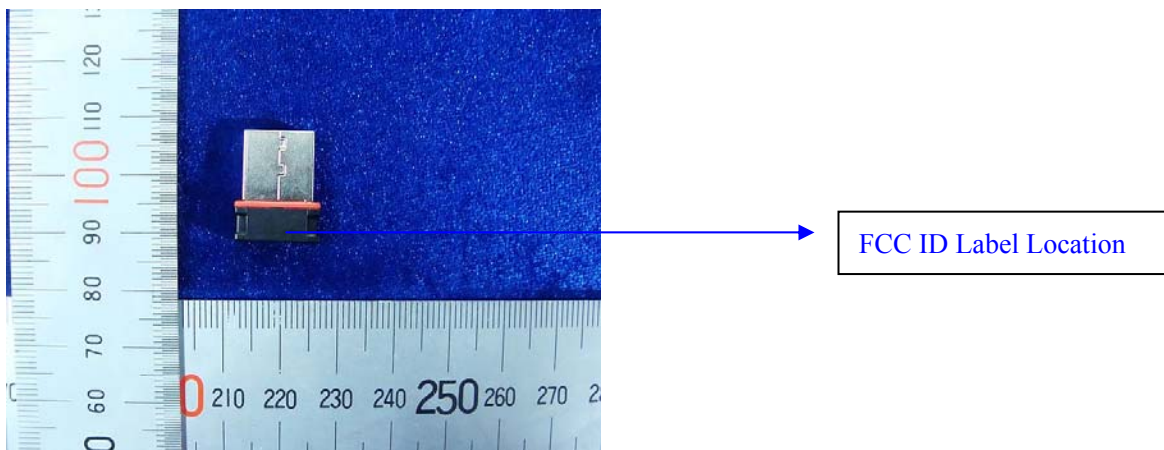
6.0 FCC ID Label

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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- 7.0 Photo of testing
- 7.1 Conducted test View--



- 7.2 Radiated emission test view--



-End of the report-

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