APPLICATION FOR CERTIFICATION
On Behalf of
G. Tech Technology Ltd.
Wireless Optical Mouse

Model No.: P2402

Prepared for : G. Tech Technology Ltd.
5/F, 24Bld, Cui Zhu Industrial Zone,
Zhu Hai, Guangdong, China.

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6 Ke Feng Rd., 52 Block,
Shenzhen Science & Industrial Park,
Nantou, Shenzhen, Guangdong, China

Tel: (0755) 26639496

Report Number : ACS-F02124
Date of Test : Jul.30, 2002
Date of Report : Aug.06, 2002

TABLE OF CONTENTS

TEST REPORT CERTIFICATION

Applicant	:	G. Tech Technology Ltd.
Manufacturer	:	G. Tech Technology Ltd.
EUT Description	:	Wireless Optical Mouse
		(A) MODEL NO. : P2402
		(B) SERIAL NO. : F2002080602
		(C) POWER SUPPLY : DC 3V

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B Class C May, 2002.

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B limits both radiated and conducted emissions. The measurement results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.
This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Date of Test : Jul.30. 2002

Prepared by : Jane Dai
Jane Dai / Assistant

Reviewer : Lake Wang
Lake Wang / Supervisor

Approved & Authorized Signer : For and on behalf of AUDIX TECHNOLOGY (SHENZHEN) CO.,LTD.
Smart Tang / Manager Authorized Signature(s)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Wireless Optical Mouse
Model Number	:	P2402
Applicant	:	G. Tech Technology Ltd. 5/F, 24Bld, Cui Zhu Industrial Zone, Zhu Hai, Guangdong, China.
Manufacturer	:	G. Tech Technology Ltd. 5/F, 24Bld, Cui Zhu Industrial Zone, Zhu Hai, Guangdong, China.
Date of Test	:	Jul.30, 2002

1.2. Tested Supporting System Details

1.2.1. PERSONAL COMPUTER

Main Board	:	M/N:TUSL2-C Manufacturer: ASUS
CPU	:	M/N: Pentium III 750 Manufacturer: Intel
Hard Disk	:	M/N: D740X-6L Manufacturer: Maxtor
Floppy Disk	:	M/N: D359M3 Manufacturer: MITSUMI
S.P.S	:	M/N: MPA-250 Manufacturer: Priver
VGA Card	:	M/N: CM64A S/N: C10G445336 Manufacturer: Power Color

1.2.2. MONITOR

Model Number	:	550s
Serial Number	:	DT15HVBR603558L
Manufacturer	:	SamSung
Data Cable	:	Shielded, Detachable, 1.2m
Power Cord	:	Unshielded, Detachable,1.2m

1.2.3. MODEM#1

Model Number	:	AT-1200CK
Serial Number	:	07-317798
FCC ID	:	E2O5OV1200CK
Manufacturer	:	Datatronics Technology, Inc.
Data Cable	:	Shielded, Detachable, 1.5m
Power Adapter	:	Datatronics, Model 48C

1.2.4. MODEM#2

Model Number	:	1200AT
Serial Number	:	AT 122257
FCC ID	:	EF56A5 1200AT
Manufacturer	:	Team Echnology, Inc
Data Cable	:	Shielded, Detachable, 1.5m
Power Adapter	:	Kaming, Model AD-09

1.2.5. PRINTER

Model Number	:	2225C+
Serial Number	:	22937S56660
FCC ID	:	DSI6XU225
Manufacturer	:	Hewlett Packard
Power Adapter	:	Hewlett Packard, Model 8241A
Data Cable	:	Shielded, Detachable, 1.5m

1.2.6. KEYBOARD

Model Number	:	SK-8100
Serial Number	:	CN-09C478-38840-219-E089
Manufacturer	:	DELL

1.2.7. KEYBOARD(USB)

Model Number	:	SK-3325
Serial Number	:	B57C80ACPN8021
Manufacturer	:	COMPAQ

1.2.8. MOUSE(USB)

Model Number	:	NWW-5
Manufacturer	:	A4 TECH

1.3. Test Facility

Site Description

3m Anechoic Chamber	:	Certificated by FCC, USA Aug. 24, 2000
3m & 10m Open Site	:	Certificated by FCC, USA Jan. 29, 2001
	:	Certificated by VCCI, Japan Jan. 01, 1998
EMC Lab.		Certificated by DATech, German Feb. 02, 1999
		Certificated by NVLAP, USA NVLAP Code: 200372-0 Mar. 31, 2003
		Certificated by Nemko, Norway December. 18, 2000
		Certificated by DNV, Norway May 26, 1999
Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd.
Site Location	:	No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

1.4. Measurement Uncertainty

Conduction Uncertainty	=	± 2.66dB
Radiation Uncertainty	=	± 4.26dB

2. POWER LINE CONDUCTED EMISSION TEST

According to Paragraph (f) of FCC Part 15 section 15.107, Tests to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

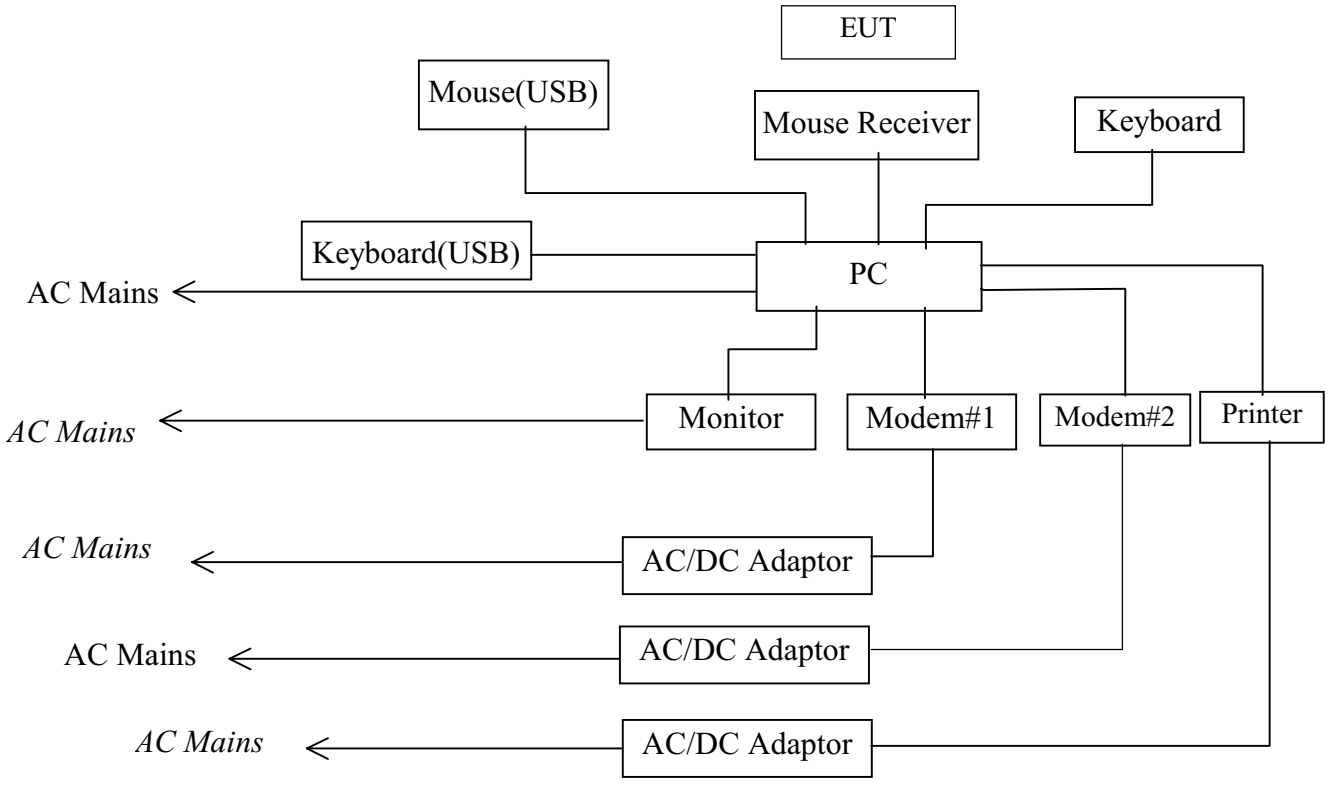
The following test equipments are used during the radiated emission measurement:

3.1.1. For Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Spectrum	HP	85422E	3625A00181	Jun. 02, 02	1 Year
2.	Test Receiver	Rohde&Schwarz	ESVS10	834468/011	Jun. 02, 02	1 Year
3.	Amplifier	HP	8447D	2944A07794	Mar. 21, 02	1/2 Year
4.	Bilog Antenna	Schaffner	CBL6111C	2598	Jan. 15, 02	1 Year
5.	PC	N/A	586ATX3	N/A	N/A	N/A
6.	Printer	HP	Laserjet6P	SGCF019673	N/A	N/A
7.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.1	Aug.04, 02	1/2 Year
8.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.2	Aug.04, 02	1/2 Year
9.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.3	Aug.04, 02	1/2 Year
10.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.4	Aug.04, 02	1/2 Year
11.	Coaxial Switch	Anritsu	MP59B	M50564	Jun. 03, 02	1/2 Year

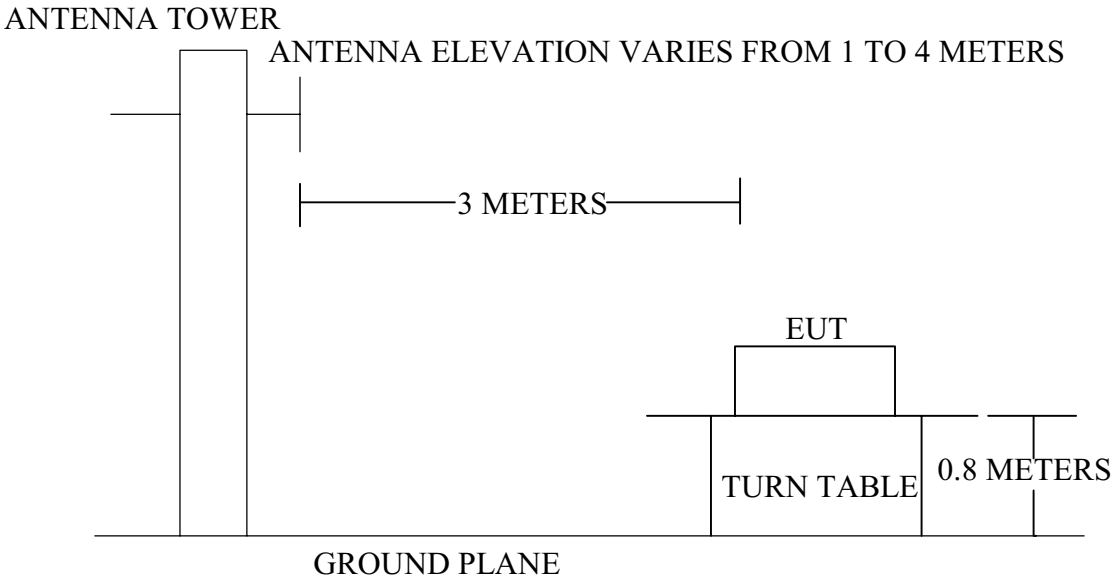
3.2. Block Diagram of Test Setup

3.2.1. diagram of connection between the EUT and simulators



(EUT: Wireless Optical Mouse)

3.2.2. Anechoic Chamber Test Setup Diagram



3.3. Radiated Emission Limit (Class B)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
Fundamental Frequency	3	10×10^3	80.0
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0

Remark： (1) Emission level (dB)μV = 20 log Emission level μV/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

3.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.4.1. Wireless Optical Mouse (EUT)

Model Number	:	P2402
Serial Number	:	F2002080602
Manufacturer	:	G. Tech Technology Ltd.

3.4.2. Support Equipment : As Tested Supporting System Detail, in Section 1.2.

3.5. Operating Condition of EUT

1. Setup the EUT as shown in Section 3.2..
2. Let the the EUT work in test mode (Running Link PC) and measure it.

3.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-1992 on radiated emission measurement.

The bandwidth of the EMI test receiver (R&S ESVS20) is set at 120KHz in the 25-1000MHz and 1MHz had been set in above 1000MHz Range.

The frequency range from 25MHz to 1000MHz is checked.

The test mode (Running Link PC) is tested in Anechoic Chamber and all the scanning waveforms are attached in Appendix I.

3.7. Radiated Emission Noise Measurement Result

PASS.

The frequency range from 25MHz to 1000MHz is investigated.
Please see the following pages.

Date of Test	:	Jul.30, 2002	Temperature	:	26℃
EUT	:	Wireless Optical Mouse	Humidity	:	60%
Model No.	:	P2402	Test Mode	:	Running Link PC
Test Engineer:		Edwarehu			

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m
35.820	**17.25**	**1.19**	**15.69**	**34.13**	**-5.87**	**40.00**
54.266	6.92	1.43	26.80	35.15	-4.85	40.00
81.394	7.19	1.71	25.16	34.06	-5.94	40.00
92.080	9.22	1.96	24.34	35.52	-7.98	43.50
181.320	9.31	2.81	20.56	32.68	-10.82	43.50
303.540	13.36	3.85	17.24	34.46	-11.54	46.00

Remark: 1. All readings are Quasi-Peak values.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading
3. The worst emission was detected at 35.820MHz with corrected signal level of 34.13dBμV/m(Limit is 40.00 dBμV/m) when the antenna was at horizontal polarization and at 2.2m high and the turn table was at 100 ° .
4. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : Lake Wang

Date of Test	:	Jul.30, 2002	Temperature	:	26℃
EUT	:	Wireless Optical Mouse	Humidity	:	60%
Model No.	:	P2402	Test Mode	:	Running Link PC
Test Engineer:		Edwarehu			

Frequency	Antenna Factor	Cable Loss	Meter Reading Vertical	Emission Level Vertical	Over Limits	Limits
MHz	dB/m	dB	dBμV	dBμV/m	DB	dBμV/m
36.790	10.86	1.20	22.79	34.85	-5.15	40.00
54.275	**6.63**	**1.43**	**27.56**	**35.63**	**-4.37**	**40.00**
81.923	7.43	1.87	25.39	34.68	-5.32	40.00
116.330	9.73	2.18	23.32	35.23	-8.27	43.50
252.130	11.90	3.41	18.39	33.70	-12.30	46.00
304.510	12.90	3.85	17.57	34.32	-11.68	46.00

Remark: 1. All readings are Quasi-Peak values.

2. Emission Level = Antenna Factor + Cable Loss + Meter Reading

3. The worst emission was detected at 54.275MHz with corrected signal level of 35.63dBμV/m(Limit is 40.00 dBμV/m) when the antenna was at horizontal polarization and at 1.05m high and the turn table was at 30 ° .

4. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : Lake Wang

Date of Test	:	Jul.30, 2002	Temperature	:	26℃
EUT	:	Wireless Optical Mouse	Humidity	:	60%
Model No.	:	P2402	Test Mode	:	Running Link PC
Test Engineer:		Edwarehu			

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m	Remark
27.135	20.66	0.79	37.32	58.77	-21.23	80.00	QP

Remark: 1. Above 25-30Mhz is Peak value, 30-1000MHz are Quasi-Peak values.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading

Date of Test	:	Jul.30, 2002	Temperature	:	26℃
EUT	:	Wireless Optical Mouse	Humidity	:	60%
Model No.	:	P2402	Test Mode	:	Running Link PC
Test Engineer:		Edwarehu			

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m	Remark
27.135	20.66	0.79	38.86	60.31	-19.69	80.00	Peak

Remark: 1. Above 25-30Mhz is Average value, 30-1000MHz are Quasi-Peak values.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading

Reviewer : Lake Wang

Date of Test	:	Jul.30, 2002	Temperature	:	26℃
EUT	:	Wireless Optical Mouse	Humidity	:	60%
Model No.	:	P2402	Test Mode	:	Running Link PC
Test Engineer:		Edwarehu			

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m	Remark
27.134	20.40	0.79	45.36	66.55	-13.45	80.00	QP

Remark: 1. Above 25-30Mhz is Average value, 30-1000MHz are Quasi-Peak values.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading

Date of Test	:	Jul.30, 2002	Temperature	:	26℃
EUT	:	Wireless Optical Mouse	Humidity	:	60%
Model No.	:	P2402	Test Mode	:	Running Link PC
Test Engineer:		Edwarehu			

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m	Remark
27.134	20.40	0.79	48.13	69.32	-10.68	80.00	Peak

Remark: 1. Above 25-30Mhz is Average value, 30-1000MHz are Quasi-Peak values.
2. Emission Level = Antenna Factor + Cable Loss + Meter Reading

Reviewer : Lake Wang

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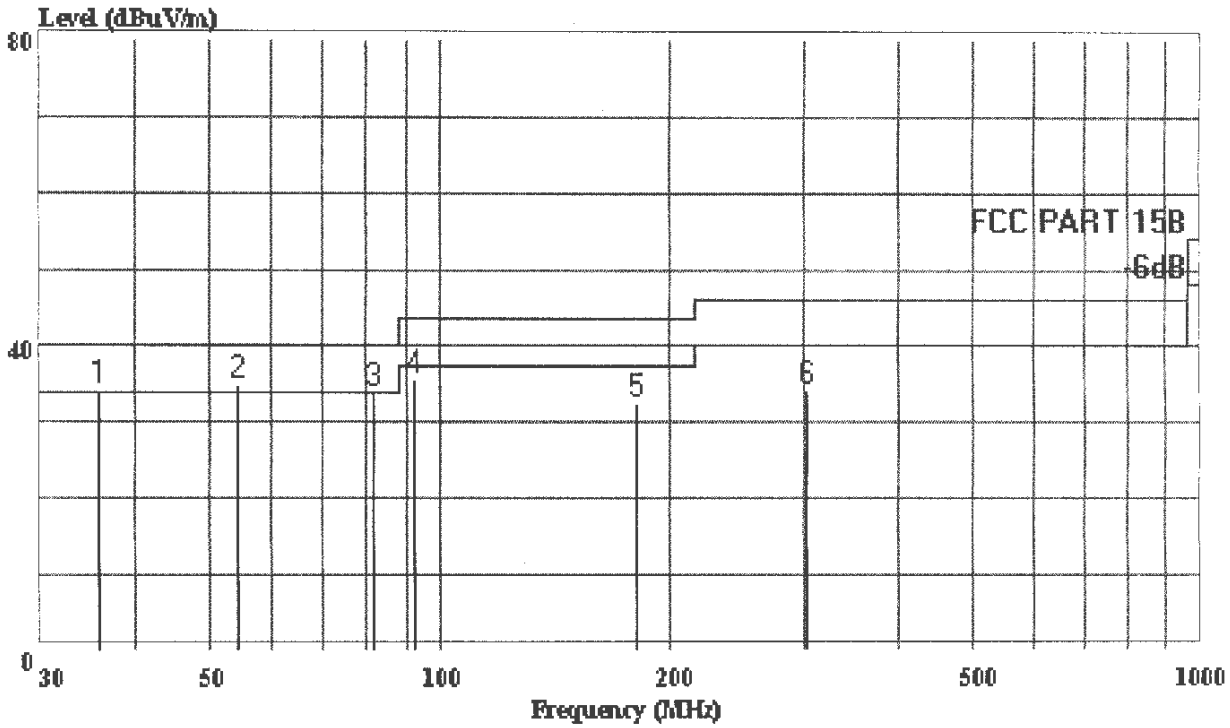

AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL
EUT : Wireless Optical Mouse
M/N : P2402
Power : PC INPUT POWER 230V/50Hz EUT :DC3V
Test Engineer: Jimmy
Memo : Running Link PC

Page: 1

		Freq	Level	Over Limit	Limit Line	Read Level	Factor	Cable Loss	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	!	35.820	34.13	-5.87	40.00	15.69	18.43	1.19	Peak
2	!	54.266	35.15	-4.85	40.00	26.80	8.35	1.43	Peak
3	!	81.394	34.06	-5.94	40.00	25.16	8.90	1.71	Peak
4		92.080	35.52	-7.98	43.50	24.34	11.18	1.96	Peak
5		181.320	32.68	-10.82	43.50	20.56	12.12	2.81	Peak
6		303.540	34.46	-11.54	46.00	17.24	17.22	3.85	Peak

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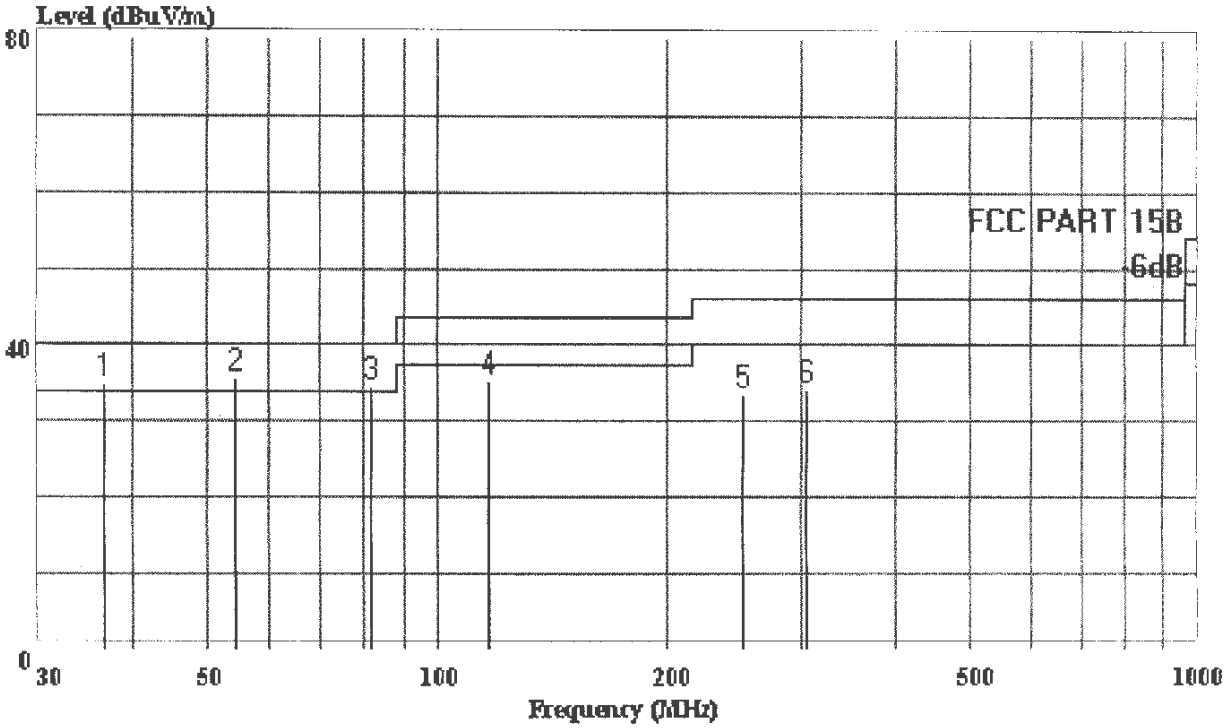

AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
EUT : Wireless Optical Mouse
M/N : P2402
Power : PC INPUT POWER 230V/50Hz EUT :DC3V
Test Engineer: Jimmy
Memo : Running Link PC

Page: 1

		Freq	Level	Over Limit	Limit Line	Read Level	Cable Factor	Loss	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	!	36.790	34.85	-5.15	40.00	22.79	12.06	1.20	Peak
2	!	54.275	35.63	-4.37	40.00	27.56	8.07	1.43	Peak
3	!	81.923	34.68	-5.32	40.00	25.39	9.29	1.87	Peak
4		116.330	35.23	-8.27	43.50	23.32	11.91	2.18	Peak
5		252.130	33.70	-12.30	46.00	18.39	15.31	3.41	Peak
6		304.510	34.32	-11.68	46.00	17.57	16.75	3.85	Peak

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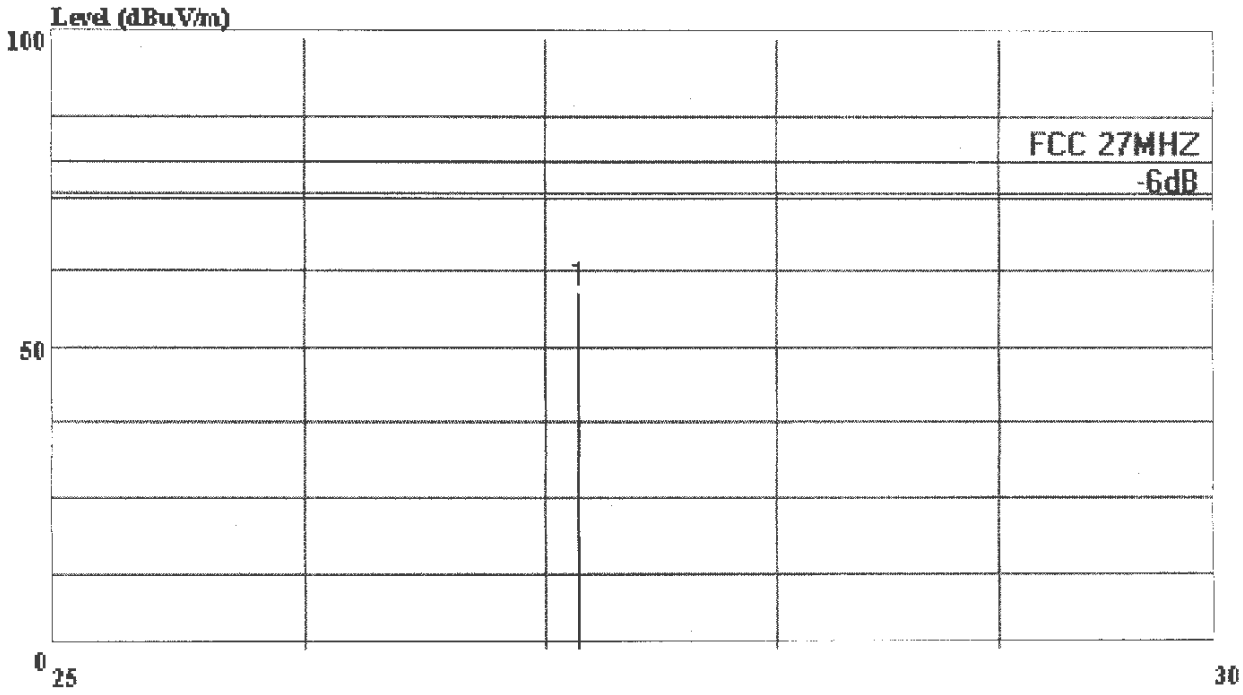

AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace: Ref Trace:

Condition: FCC 27MHZ 3m 25-30/2176H HORIZONTAL
EUT : Wireless Optical Mouse
M/N : P2402
Power : PC INPUT POWER 230V/50Hz EUT :DC3V
Test Engineer: Jimmy
Memo : Running Link PC

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	Freq	Level	Over Limit	Limit Line	Read Level	Cable Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	27.135	58.77	-21.23	80.00	37.32	21.45	0.79	QP

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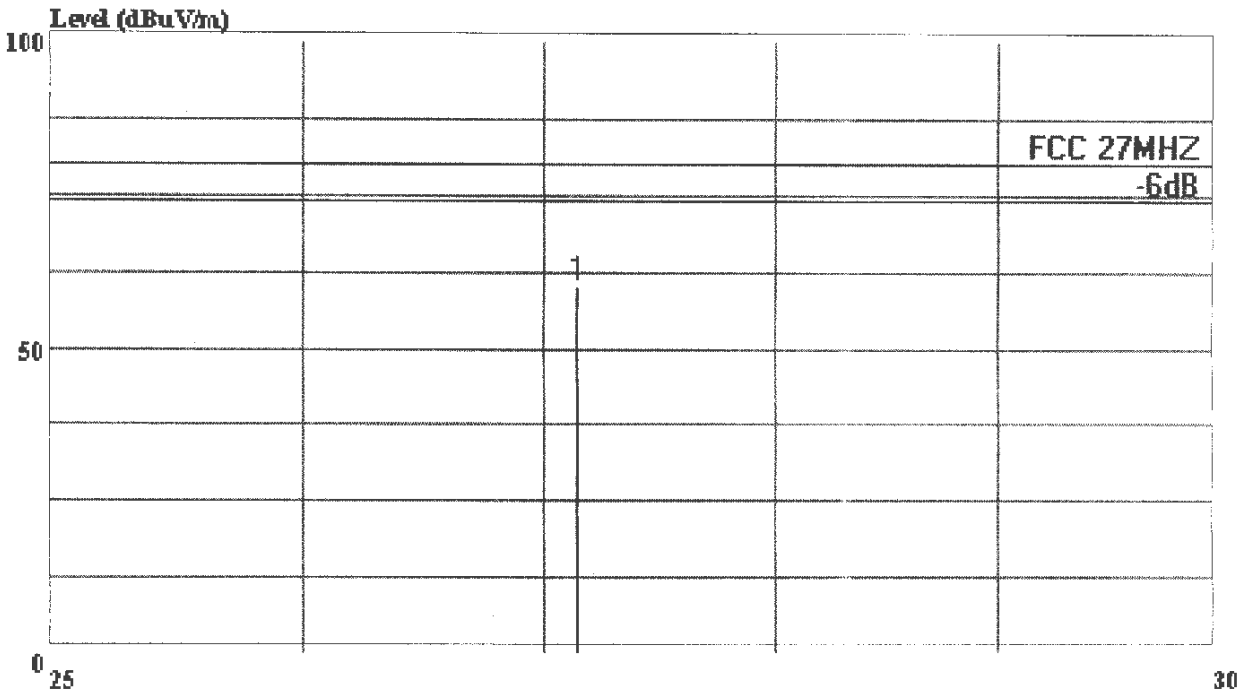

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Condition: FCC 27MHZ 3m 25-30/2176H HORIZONTAL
EUT : Wireless Optical Mouse
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Memo : Running Link PC

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	27.135	60.31	-19.69	80.00	38.86	21.45	0.79	Peak

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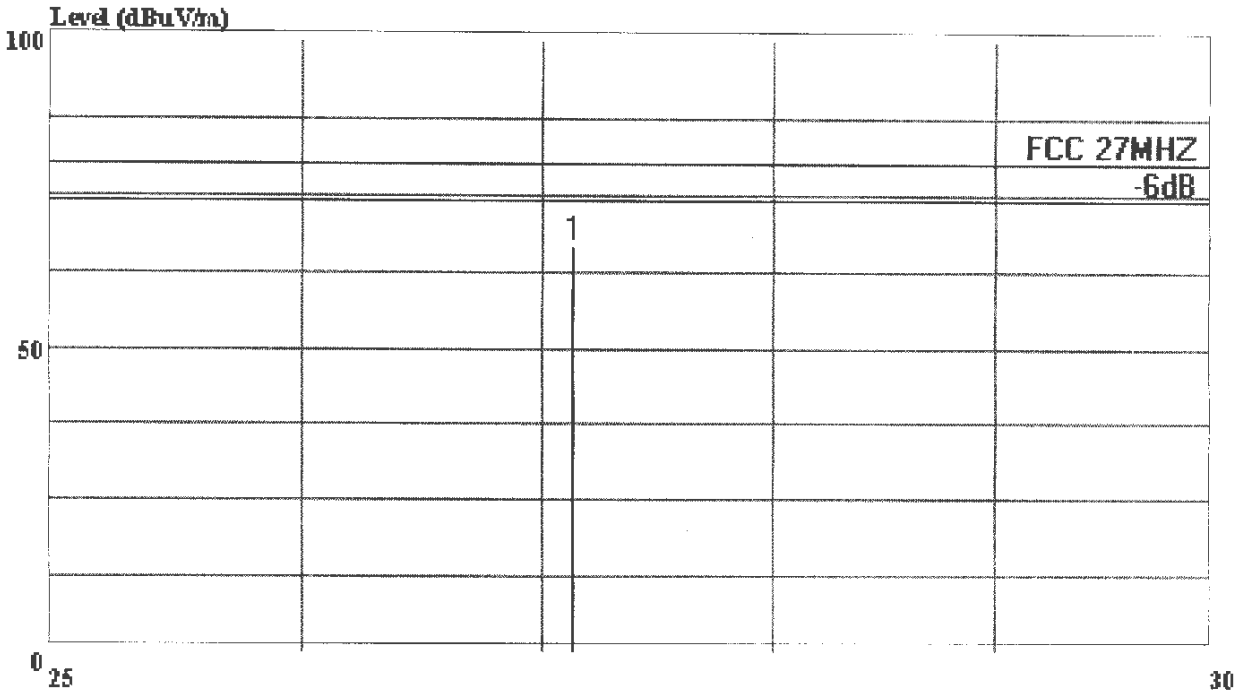

AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace: Ref Trace:

Condition: FCC 27MHZ 3m 25-30/2176V VERTICAL
EUT : Wireless Optical Mouse
M/N : P2402
Power : PC INPUT POWER 230V/50Hz EUT :DC3V
Test Engineer: Jimmy
Memo : Running Link PC

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	27.134	66.55	-13.45	80.00	45.36	21.19	0.79	QP

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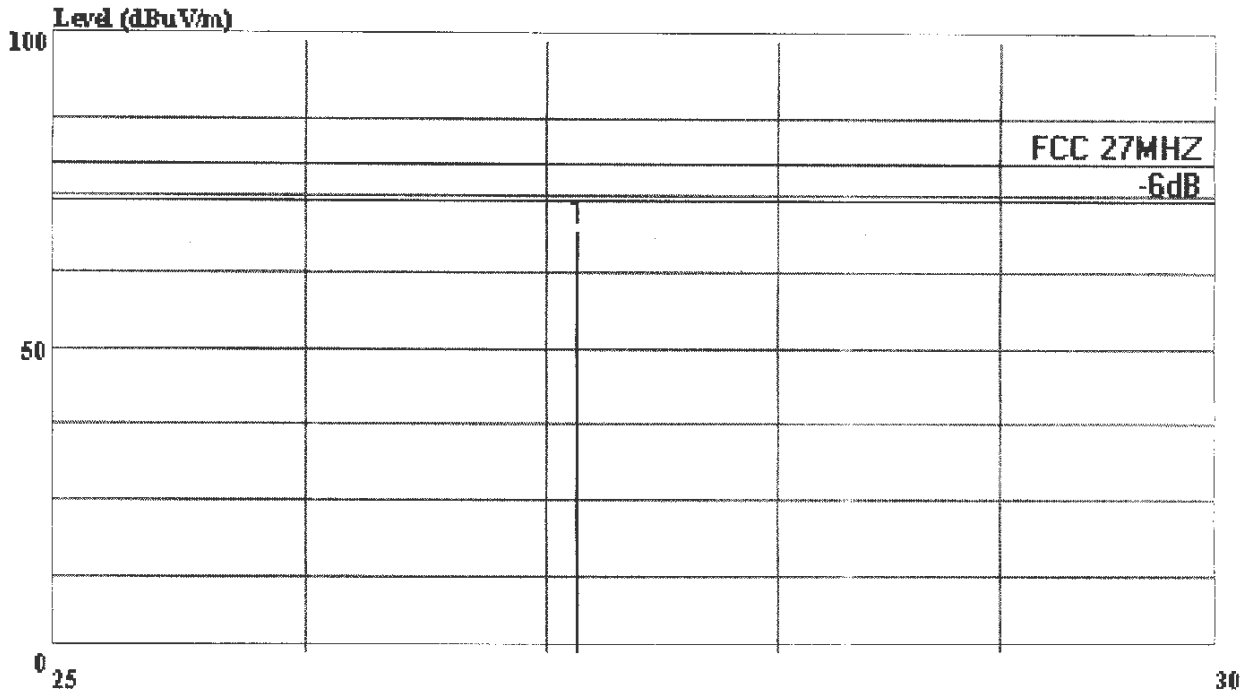


AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace: Ref Trace:

Condition: FCC 27MHZ 3m 25-30/2176V VERTICAL
EUT : Wireless Optical Mouse
M/N : P2402
Power : PC INPUT POWER 230V/50Hz EUT :DC3V
Test Engineer: Jimmy
Memo : Running Link PC

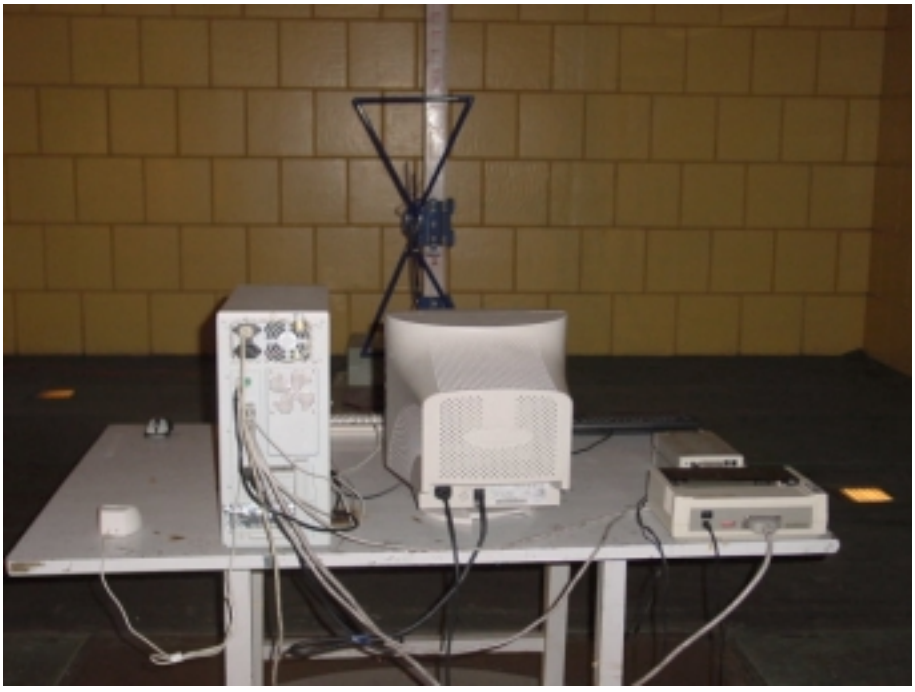
Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	27.134	69.32	-10.68	80.00	48.13	21.19	0.79	Peak

4. PHOTOGRAPH

4.1. Photos of Radiated Measurement

FRONT VIEW OF RADIATED MEASUREMENT



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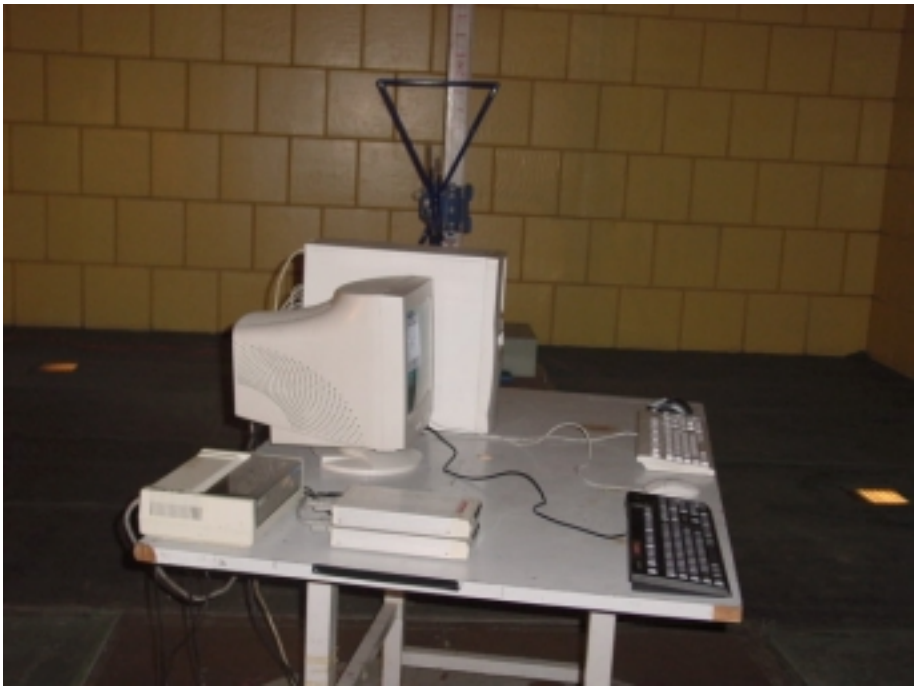

SIDE VIEW OF RADIATED MEASUREMENT

FRONT VIEW OF RADIATED MEASUREMENT

APPENDIX I

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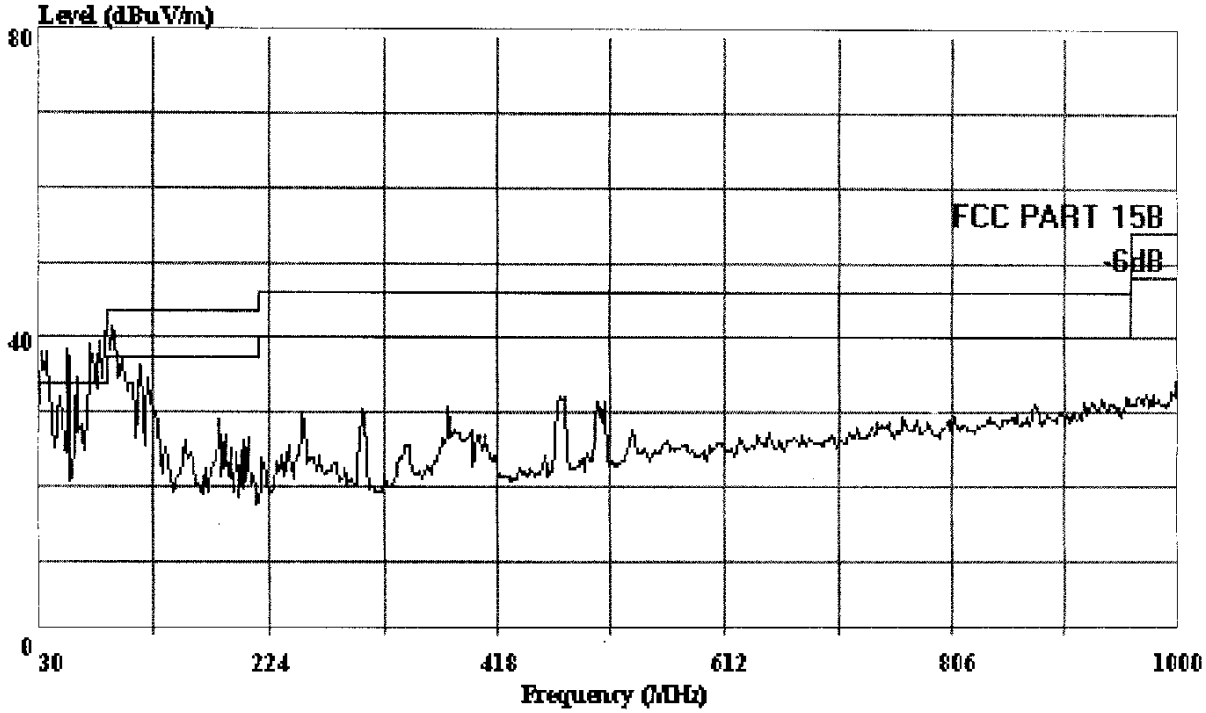
Fax: 0755-6632877

Data#: 1 File#: G.TECH.EMI Date: 2002-07-30 Time: 09:54:25



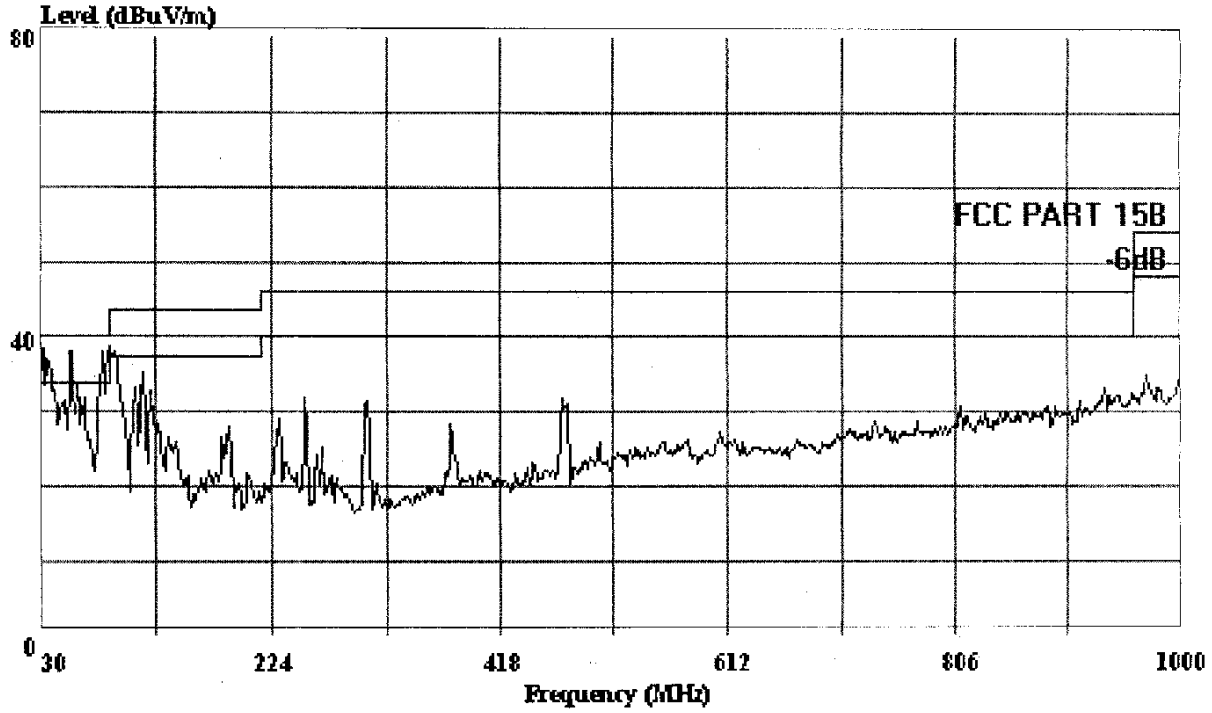
AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL
EUT : Wireless Optical Mouse
M/N : P2402
Power : PC TNPUT POWER 230V/50Hz EUT :DC3V
Test Engineer: Jimmy
Memo : Running Link PC

AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.
Shenzhen Science & Ind. Park
Tel: 0755-6639495~7
Fax: 0755-6632877

Data#: 2 File#: G.TECH.EMI Date: 2002-07-30 Time: 09:55:46



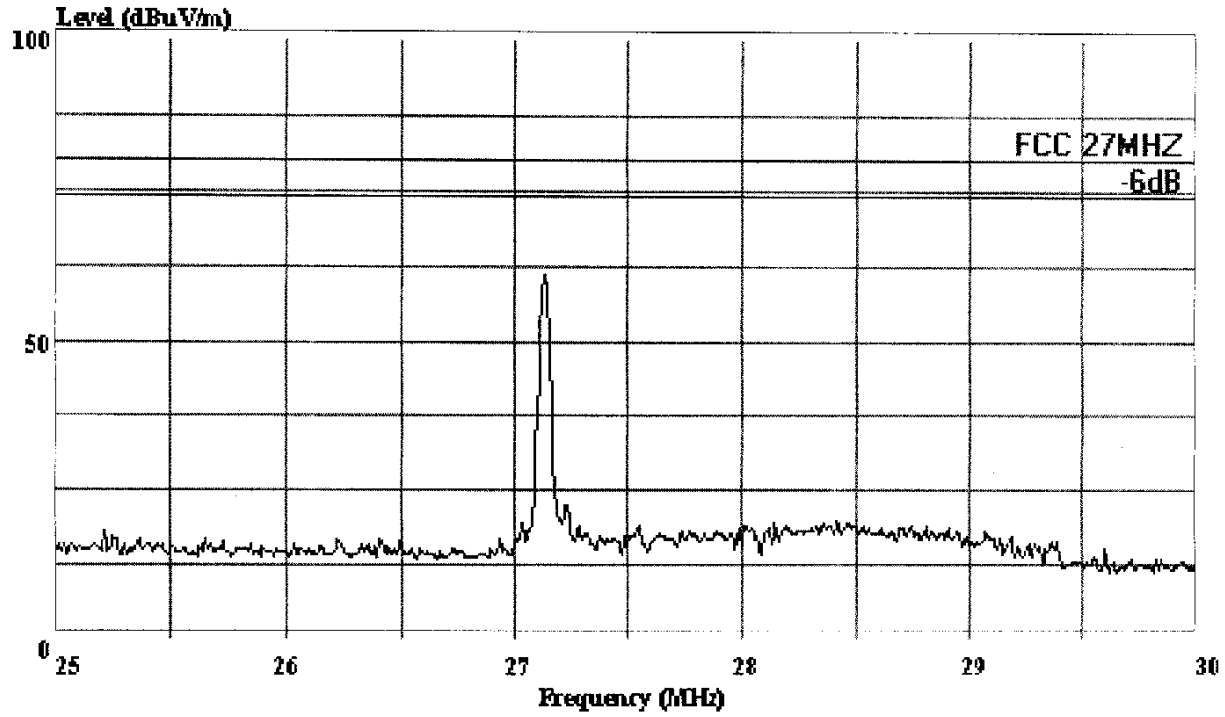
AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
EUT : Wireless Optical Mouse
M/N : P2402
Power : PC INPUT POWER 230V/50Hz EUT :DC3V
Test Engineer: Jimmy
Memo : Running Link PC

AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.
Shenzhen Science & Ind. Park
Tel: 0755-6639495~7
Fax: 0755-6632877

Data#: 4 File#: G.TECH.EMI Date: 2002-07-30 Time: 10:02:57



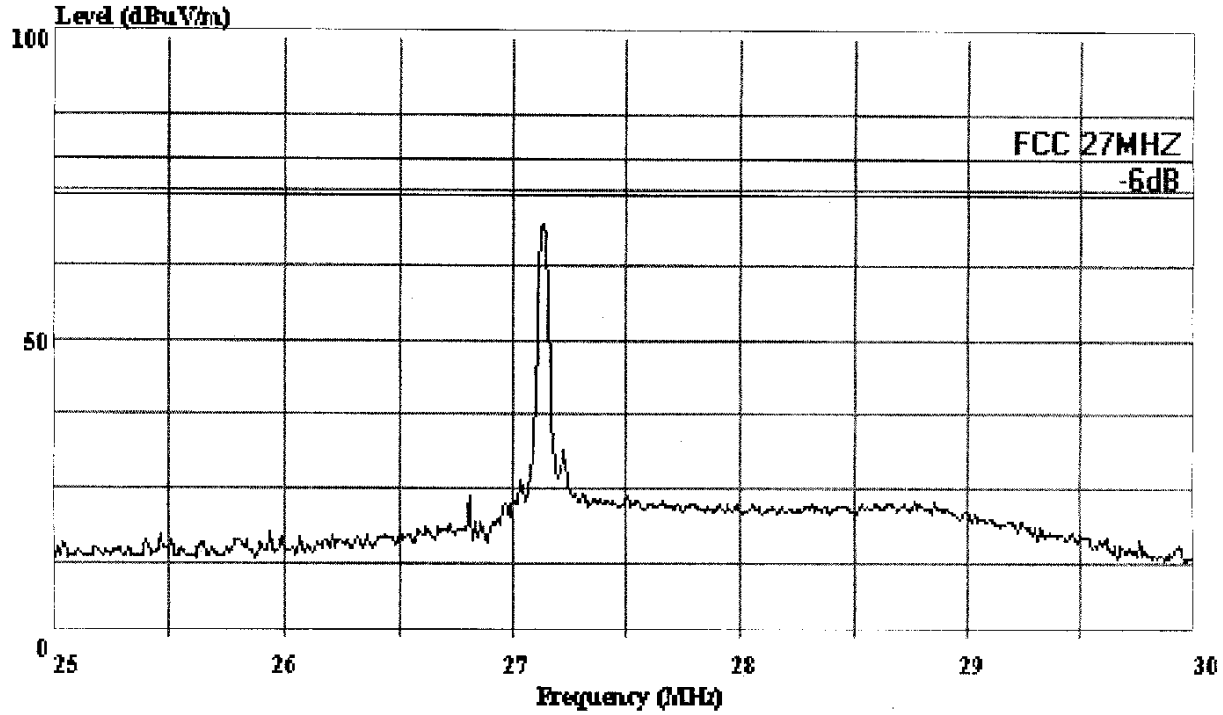
AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace: Ref Trace:

Condition: FCC 27MHZ 3m 25-30/2176H HORIZONTAL
EUT : Wireless Optical Mouse
M/N : P2402
Power : PC INPUT POWER 230V/50Hz EUT :DC3V
Test Engineer: Jimmy
Memo : Running Link PC

AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.
Shenzhen Science & Ind. Park
Tel: 0755-6639495~7
Fax: 0755-6632877

Data#: 3 File#: G.TECH.EMI Date: 2002-07-30 Time: 10:00:41



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace: Ref Trace:

Condition: FCC 27MHZ 3m 25-30/2176V VERTICAL
EUT : Wireless Optical Mouse
M/N : P2402
Power : PC INPUT POWER 230V/50Hz EUT :DC3V
Test Engineer: Jimmy
Memo : Running Link PC