

Prüfbericht - Nr.: 17030503 001

Test Report No.:

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Auftraggeber: Acrox Technologies Co., Ltd.
Client: 4F, No. 89, Minshan St., NeiHu Dist. Taipei 114

Gegenstand der Prüfung: Wireless USB Laptop Mouse
Test item:

Bezeichnung: DX-WLM1401-BK **Serien-Nr.:** n.a.
Identification:

Wareneingangs-Nr.: 164002075 **Eingangsdatum:** 2012-12-20
Receipt No.: **Date of receipt:**

Zustand des Prüfgegenstandes bei Anlieferung: Test samples received are sufficient for testing and not damaged.
Condition of test item at delivery:

Prüfort: Shenzhen Accurate Technology Co., Ltd.
Testing location: (Details refer to clause 2.1)

Prüfgrundlage: FCC CFR47 Part 15: Subpart C Section 15.249
Test specification: FCC CFR47 Part 15: Subpart C Section 15.207
FCC CFR47 Part 15: Subpart C Section 15.209
RSS-210 Issue 8 December 2010
RSS-Gen Issue 3 December 2010
RSS-102 Issue 4 March 2010

Prüfergebnis: Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).
Test Result: The test item passed the test specification(s).

Prüflaboratorium: TÜV Rheinland (Shenzhen) Co., Ltd.
Testing Laboratory:

geprüft/ tested by:

kontrolliert/ reviewed by:

2013-1-15

Owen Tian/ Project Manager

2013-1-18

Winnie Hou/ Technical Certifier

Datum
Date

Name/Stellung
Name/Position

Unterschrift
Signature

Datum
Date

Name/Stellung
Name/Position

Unterschrift
Signature

Sonstiges/ Other Aspects:

Abkürzungen: P(pass) = entspricht Prüfgrundlage
F(fail) = entspricht nicht Prüfgrundlage
N/A = nicht anwendbar
N/T = nicht getestet

Abbreviations: P(pass) = passed
F(fail) = failed
N/A = not applicable
N/T = not tested

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.

This test report relates to the a. m. test item. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

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TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Passed

5.1.2 FIELD STRENGTH OF FUNDAMENTAL AND HARMONICS

RESULT: Passed

5.1.3 20dB BANDWIDTH

RESULT: Passed

5.1.4 99% BANDWIDTH

RESULT: Passed

5.1.5 OUT OF BAND EMISSION

RESULT: Passed

5.1.6 RADIATED EMISSION

RESULT: Passed

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Passed

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test Result

2. Test Sites

2.1 Test Facilities

Shenzhen Accurate Technology Co., Ltd.

F1, Bldg. A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China

FCC Registration No.: 752051

Test site Industry Canada No.: 5077A

The tests at the test site have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
Spurious emission and Radiated emission				
Spectrum Analyzer	Agilent	E7405A	MY45115511	2013-01-07
Test Receiver	Rohde & Schwarz	ESCS30	100307	2013-01-07
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	2013-01-07
Loop Antenna	Schwarzbeck	FMZB1516	1516131	2013-01-07
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	2013-01-07
50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	2013-01-07
Pre-Amplifier	Rohde & Schwarz	CBLU11835 40-01	3791	2013-01-07
Radio Test Suite				
Receiver	Rohde & Schwarz	ESPI	100396/003	2013-01-07

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

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2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements are $\pm 3\text{dB}$.

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached in this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Shenzhen Accurate Technology Co., Ltd. test facility located at F1, Bldg. A, Changyuan New Material Port, Keyuan Rd., Science & Industry Park Nanshan District, Shenzhen 518057, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a wireless mouse used together with personal computer.
The whole system is composed of one wireless keyboard, one wireless mouse and one dongle. This report is only for wireless mouse.
For details refer to the User Manual, technical description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Rating of EUT

Kind of Equipment:	Wireless USB laptop Mouse
Type Designation:	DX-WLM1401-BK
FCC ID	PRDMU15
IC	6180A-G5C

Prüfbericht - Nr.: 17030503 001
Test Report No.Seite 8 von 22
Page 8 of 22**Table 3: Technical Specification of EUT**

Technical Specification	Value
Operating Frequency	2408-2474 MHz
Channel separation	1MHz
Extreme Temperature Range	0°C to 35°C
Operation Voltage	DC 3V (via 2 AAA size battery)
Modulation	FSK
Antenna Type	Printed antenna
External Ports	None
Antenna Gain	-2dBi
RF Output Power	2.21mW
Number of channels	34
Channel frequency (MHz)	2408/2410/2412/2414/2416/2418/2420/2422/2424/2426/2428/2430/2432/2434/2436/2438/2440/2442/2444/2446/2448/2450/2452/2454/2456/2458/2460/2462/2464/2466/2468/2470/2472/2474

3.3 Independent Operation Modes

The basic operation modes are:

- A. Transmitting
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. Standby
- C. Receiving
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Technical Description
- Circuit Diagram
- Instruction Manual
- Rating Label

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.4: 2003.

4.3 Special Accessories and Auxiliary Equipment

None.

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test

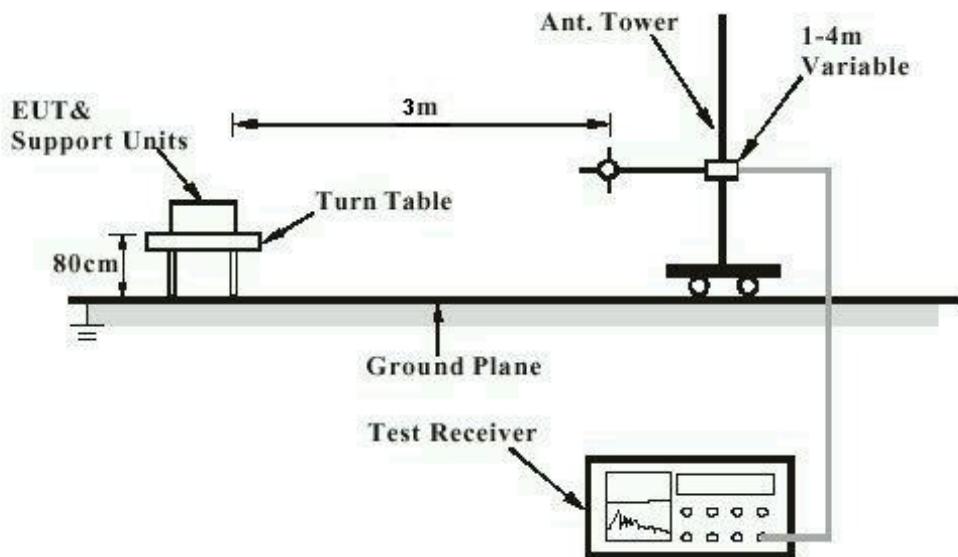
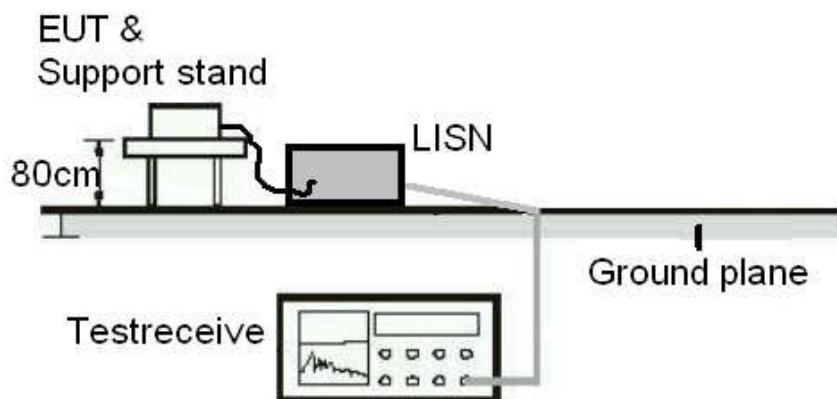


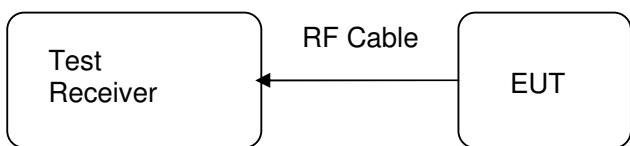
Diagram of Measurement Equipment Configuration for Mains Conduction Measurement



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Diagram of Measurement Equipment Configuration for Conducted Transmitter Measurement



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Passed**

Test date	:	2012-12-27
Test standard	:	FCC Part 15.203 RSS-Gen 7.1.2
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is -5dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply the provision.

Refer to EUT photo for details.

5.1.2 Field strength of fundamental and harmonics

RESULT:

Passed

Test date	:	2012-12-28
Test standard	:	FCC Part 15.249(a) Clause A2.9(a) of RSS-210
Basic standard	:	ANSI C63.4: 2003
Limit	:	FCC Part 15.249(a) Clause A2.9(a) of RSS-210
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Operation Mode	:	A
Ambient temperature	:	26°C
Relative humidity	:	56%
Atmospheric pressure	:	101 kPa

Table 4: Test result of Field strength of fundamental and harmonics

Channel Frequency (MHz)	Test result			
	Reading (dBuV/m)	Antenna orientation	Detector	Limit (dBuV/m)
2408	94.91	Horizontal	Peak	114
2408	90.94		Average	94
2408	89.03	Vertical	Peak	114
2408	84.92		Average	94
2440	95.44	Horizontal	Peak	114
2440	90.64		Average	94
2440	90.72	Vertical	Peak	114
2440	86.83		Average	94
2474	94.00	Horizontal	Peak	114
2474	90.50		Average	94
2474	90.62	Vertical	Peak	114
2474	85.90		Average	94
4816	48.63	Horizontal	Peak	74
4816	44.01		Average	54
4816	45.98	Vertical	Peak	74
4816	41.79		Average	54
4880	50.09	Horizontal	Peak	74
4880	45.67		Average	54

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4880	46.85	Vertical	Peak	74
4880	42.82		Average	54
4948	50.20	Horizontal	Peak	74
4948	46.32		Average	54
4948	47.72	Vertical	Peak	74
4948	43.52		Average	54

Note: refer to Appendix 1 for test plot.

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5.1.3 20dB Bandwidth

RESULT:

Passed

Date of testing : 2012-12-27
Test standard : RSS-Gen 4.6.3
Basic standard : ANSI C63.4: 2003
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 20°C
Relative humidity : 52%
Atmospheric pressure : 101 kPa

Table 5: Test result of 20dB Bandwidth

Channel	Channel Frequency (MHz)	20dB Bandwidth (kHz)	Limit (MHz)	Result
Low Channel	2408	2046	/	Pass
Mid Channel	2440	2040	/	Pass
High Channel	2474	2104	/	Pass

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5.1.4 99% Bandwidth

RESULT:**Passed**

Date of testing : 2012-12-27
Test standard : RSS-Gen clause 4.6.1
Basic standard : ANSI C63.4: 2003
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : A
Ambient temperature : 20°C
Relative humidity : 45%
Atmospheric pressure : 101 kPa

Table 6: Test result of 99% Bandwidth

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)	Limit (MHz)
Low Channel	2408	2106	/
Mid Channel	2440	2100	/
High Channel	2474	2106	/

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5.1.5 Out of band emission

RESULT:**Passed**

Date of testing	:	2012-12-28
Test standard	:	FCC part 15.249(d) RSS-210 A2.9(b)
Basic standard	:	ANSI C63.4: 2003
Limit	:	FCC part 15.249(d) RSS-210 A2.9(b)
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Test Channel	:	Low/ High
Operation mode	:	A
Ambient temperature	:	26°C
Relative humidity	:	56%
Atmospheric pressure	:	101 kPa

All emissions are below the general radiated emission limits in FCC part 15.209. Refer to Appendix 1 for detailed test plot.

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5.1.6 Radiated emission

RESULT:**Passed**

Date of testing	:	2012-12-28
Test standard	:	FCC part 15.209(a) & 15.205 Clause 2.2 & 2.5 of RSS-210
Basic standard	:	ANSI C63.4: 2003
Limits	:	Refer to FCC part 15.209(a) Refer to RSS-Gen Table 5
Kind of test site	:	3m Semi-Anechoic Chamber

Test setup

Operation mode	:	A
Ambient temperature	:	23°C
Relative humidity	:	51%
Atmospheric pressure	:	101 kPa

For details refer to Appendix 1.

Remark: Testing was carried out within frequency range 9kHz to the tenth harmonics.

6. Safety Human exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:**Passed**

The minimum distance is 10mm. Since maximum peak output power of the transmitter is 2.21mW <19mW, hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure Guidance v05.

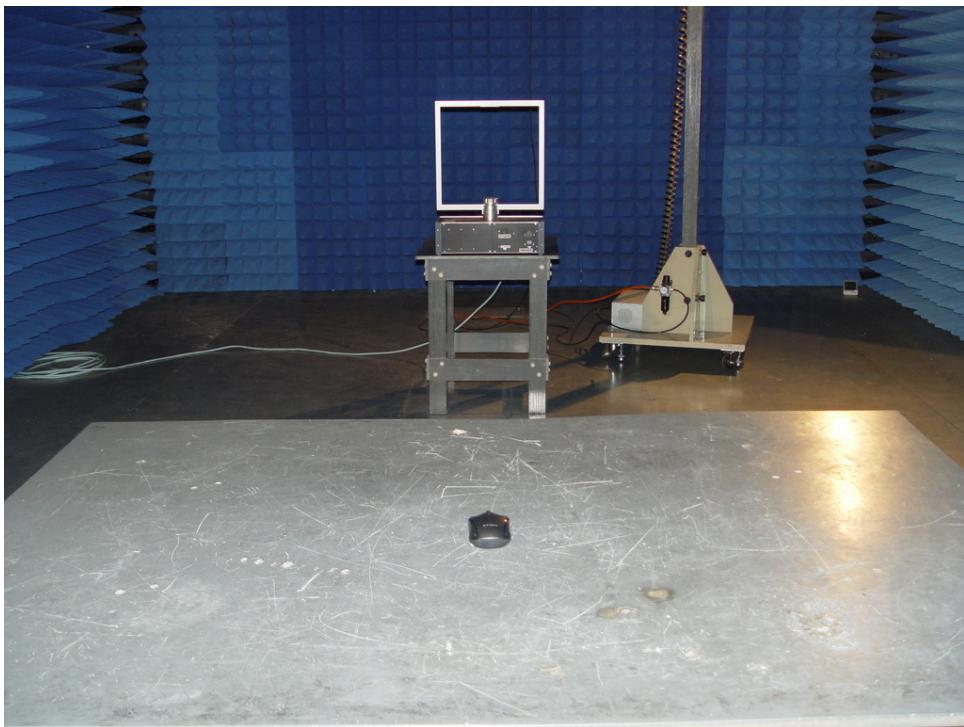
The measured peak output power of the transmitter is only 2.21mW. According to RSS-102 Issue 4 March 2010 clause 2.5, from 3 kHz up to 1 GHz inclusively and if the output power (i.e. the higher of the conducted or effective isotropic radiated power (e.i.r.p.) source-based time-averaged output power) is less than, or equal to 200 mW for General Public Use and 1000 mW for Controlled Use, then the transmitters are exempt from routine SAR and RF exposure evaluations, therefore the EUT is deemed to fulfill the requirement without additional test.

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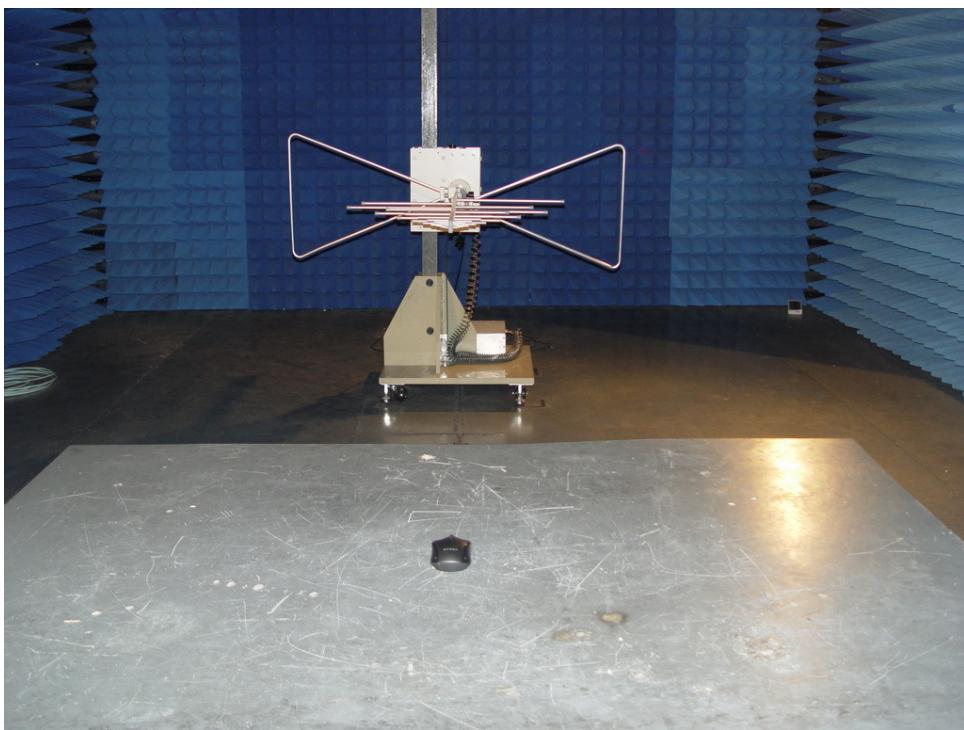
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7. Photographs of the Test Set-Up

Photograph 1: Set-up for Radiated Emissions (9kHz - 30MHz)



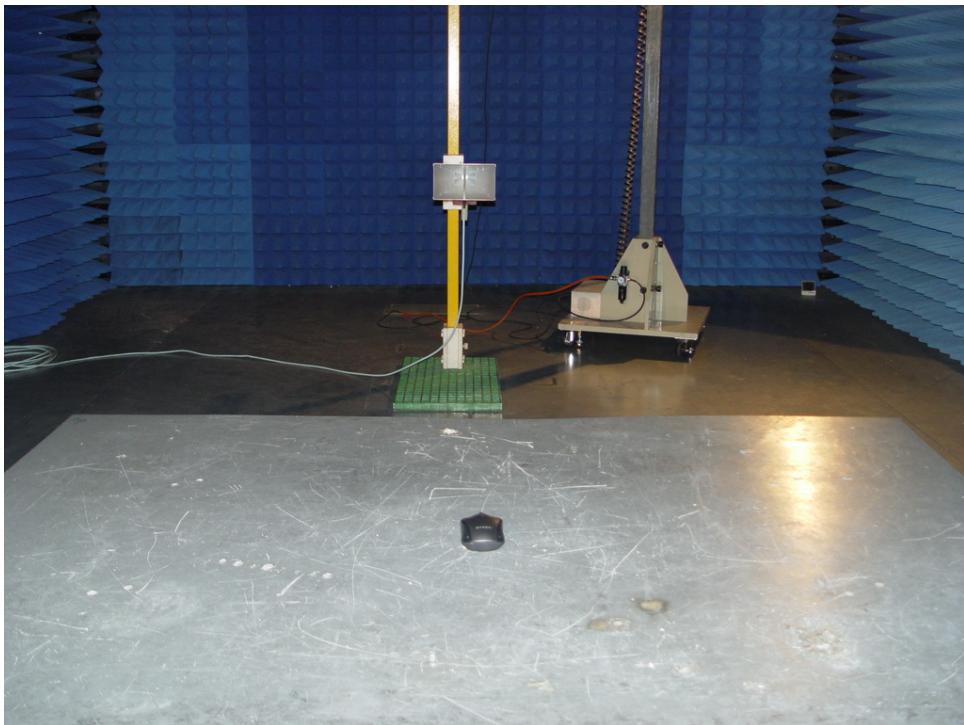
Photograph 2: Set-up for Radiated Emissions (30MHz-1GHz)



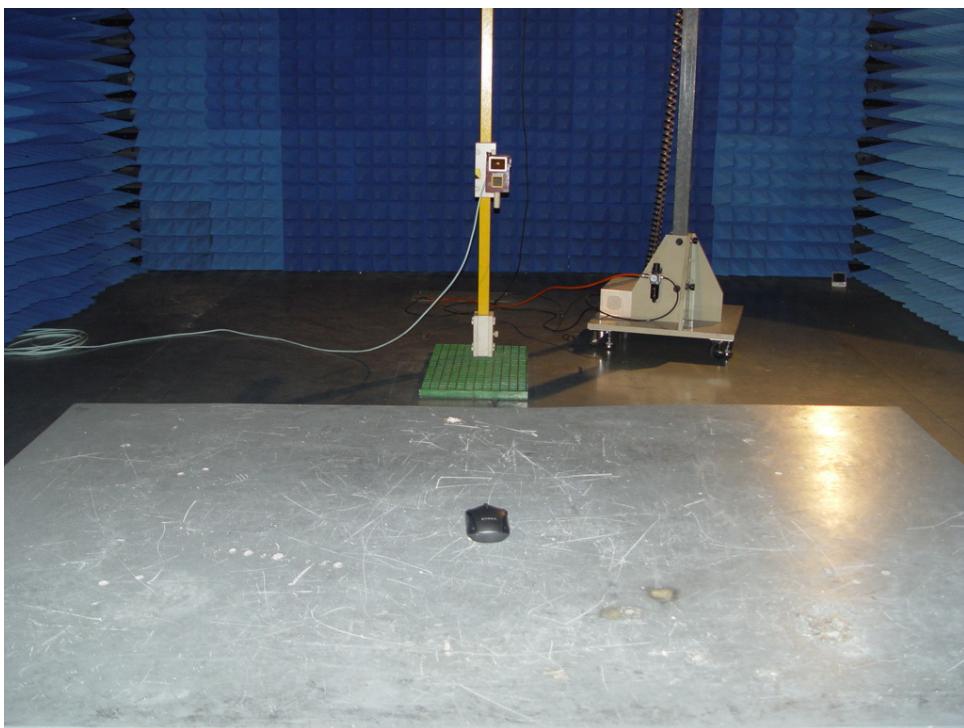
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Photograph 3: Set-up for Radiated Emissions (1GHz-18GHz)



Photograph 4: Set-up for Radiated Emissions (18GHz-26GHz)



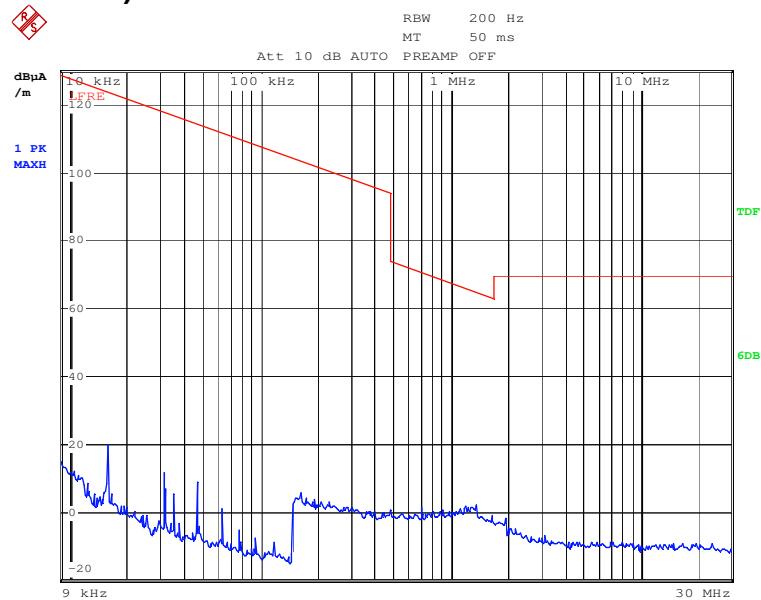
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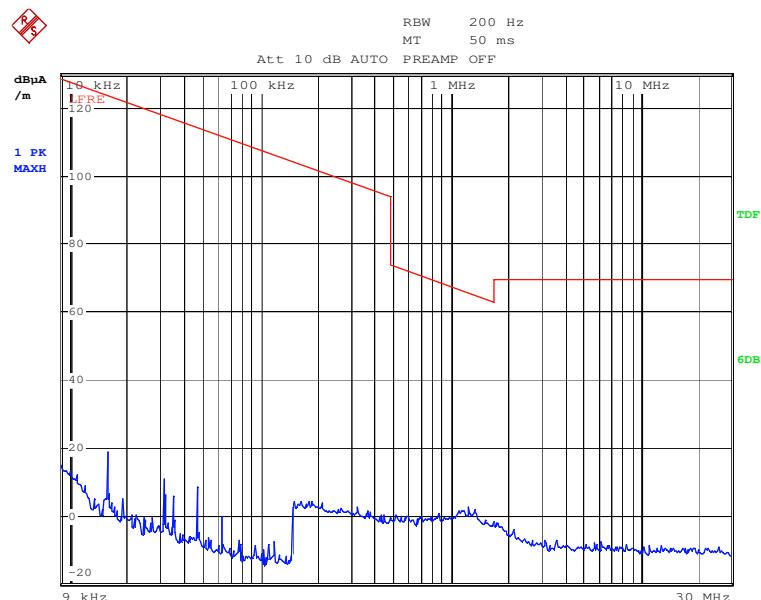
Photograph 1: Set-up for Radiated Emissions (9kHz - 30MHz).....	20
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Test Plot of Spurious emission of A.1 – Horizontal (9kHz – 30MHz)



Date: 29.DEC.2012 14:04:36

Test Plot of Spurious emission of A.1 – Vertical (9kHz – 30MHz)



Date: 29.DEC.2012 14:23:03

Test Plot of Spurious emission of A.1 – Horizontal (30MHz – 1GHz)



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

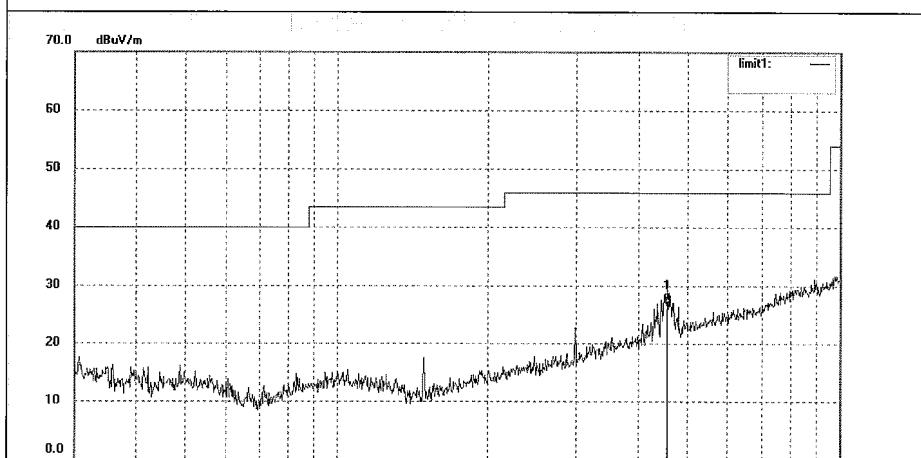
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #551	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 10/33/52
EUT: Mouse	Engineer Signature: PEI
Mode: TX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	456.0073	6.89	20.61	27.50	46.00	-18.50	QP			

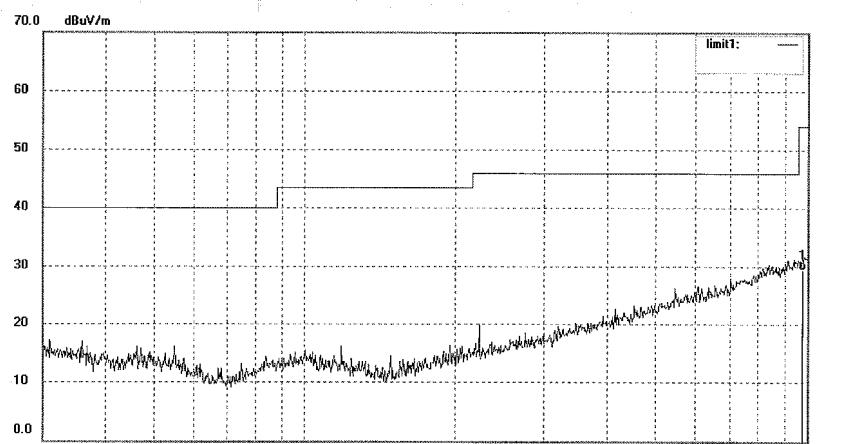
Test Plot of Spurious emission of A.1 – Vertical (30MHz – 1GHz)



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.:	PYH #552	Polarization:	Vertical							
Standard:	FCC Class B 3M Radiated	Power Source:	DC 3V							
Test item:	Radiation Test	Date:	12/12/28/							
Temp. (C)/Hum.(%)	26 C / 56 %	Time:	10/43/51							
EUT:	Mouse	Engineer Signature:	PEI							
Mode:	TX 2408MHz	Distance:	3m							
Model:										
Manufacturer:										
Note:										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	979.1391	0.61	28.85	29.46	54.00	-24.54	QP			

Test Plot of Spurious emission of A.1 – Horizontal (1GHz – 18GHz)



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

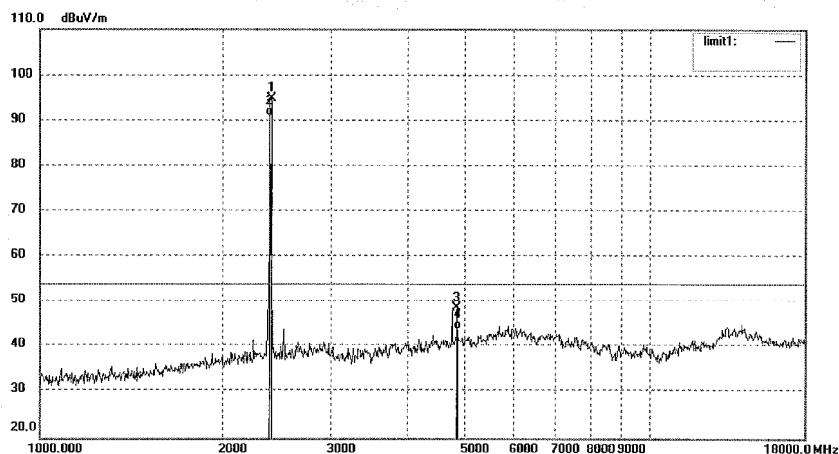
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #559	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp. (C)/Hum.(%) 26 C / 56 %	Time: 11/48/04
EUT: Mouse	Engineer Signature: PEI
Mode: TX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2408.523	102.35	-7.44	94.91	114.00	-19.09	peak			
2	2408.523	98.38	-7.44	90.94	94.00	-3.06	AVG			
3	4817.063	48.85	-0.22	48.63	74.00	-25.37	peak			
4	4817.063	44.23	-0.22	44.01	54.00	-9.99	AVG			

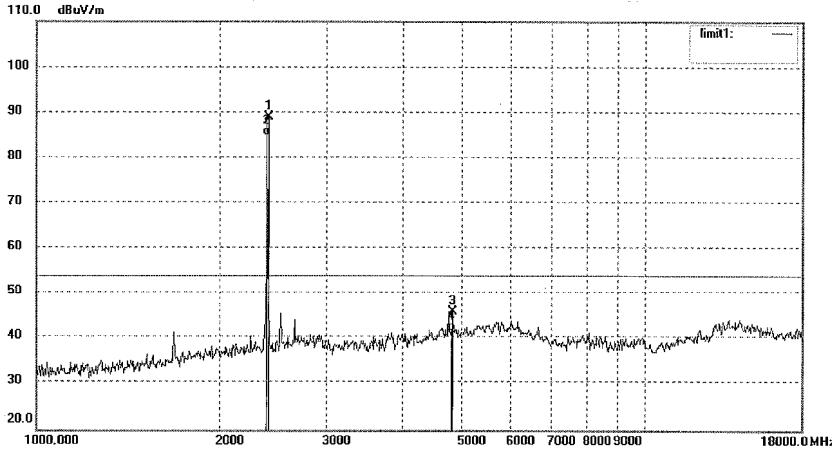
Test Plot of Spurious emission of A.1 – Vertical (1GHz – 18GHz)



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #560	Polarization: Vertical									
Standard: FCC Class B 3M Radiated	Power Source: DC 3V									
Test item: Radiation Test	Date: 12/12/28/									
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 11/59/11									
EUT: Mouse	Engineer Signature: PEI									
Mode: TX 2408MHz	Distance: 3m									
Model:										
Manufacturer:										
Note:										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2408.531	96.47	-7.44	89.03	114.00	-24.97	peak			
2	2408.531	92.36	-7.44	84.92	94.00	-9.08	AVG			
3	4817.014	46.20	-0.22	45.98	74.00	-28.02	peak			
4	4817.014	42.01	-0.22	41.79	54.00	-12.21	AVG			

Test Plot of Spurious emission of A.1 – Horizontal (18GHz – 25GHz)



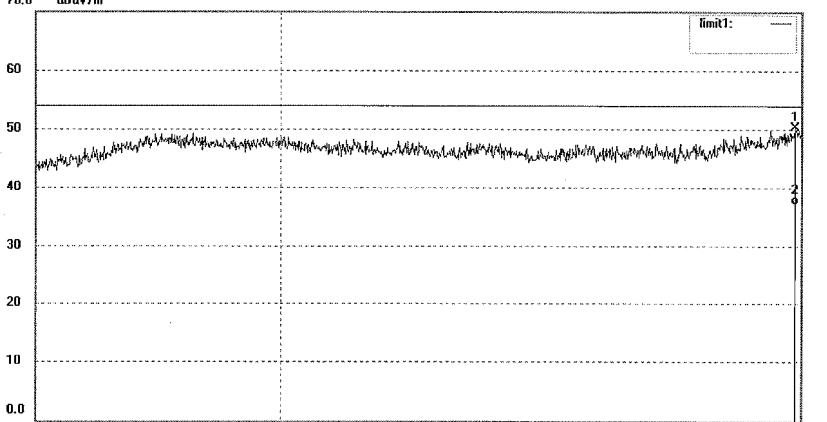
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	PYH #605	Polarization:	Horizontal							
Standard:	FCC Class B 3M Radiated	Power Source:	DC 3V							
Test item:	Radiation Test	Date:	12/12/29/							
Temp.(C)/Hum.(%)	25 C / 55 %	Time:	10/37/24							
EUT:	Mouse	Engineer Signature:	PEI							
Mode:	TX 2408MHz	Distance:	3m							
Model:										
Manufacturer:										
Note:										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24942.463	31.49	18.82	50.31	54.00	-3.69	peak			
2	24942.463	18.36	18.82	37.18	54.00	-16.82	Avg			

Test Plot of Spurious emission of A.1 – Vertical (18GHz – 25GHz)



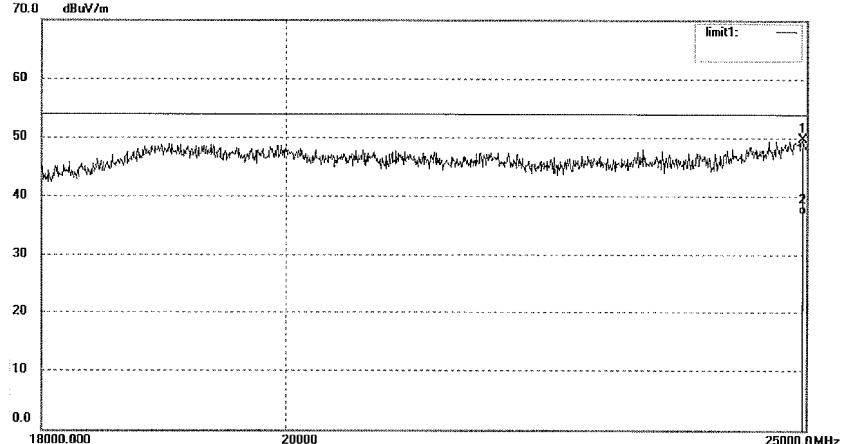
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Science & Industry Park,Nanshan Shenzhen,P.R.China

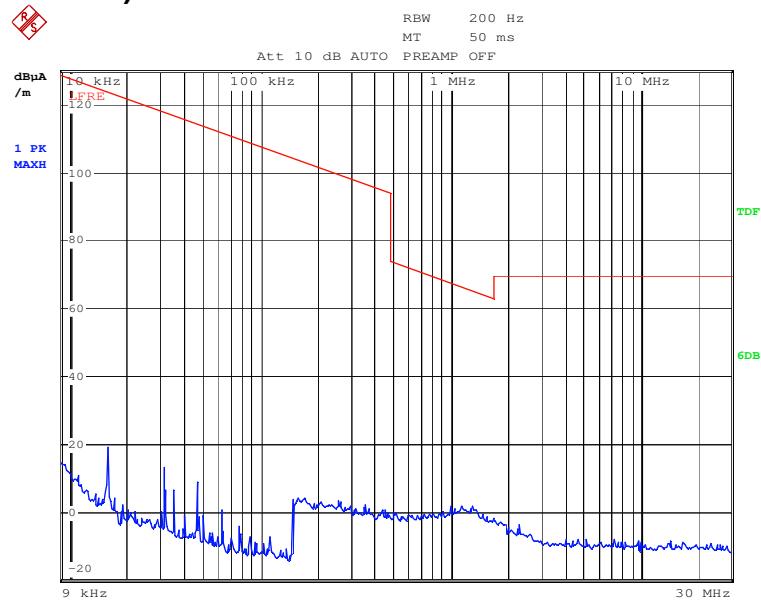
Site: 2# Chamber

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Fax:+86-0755-26503396

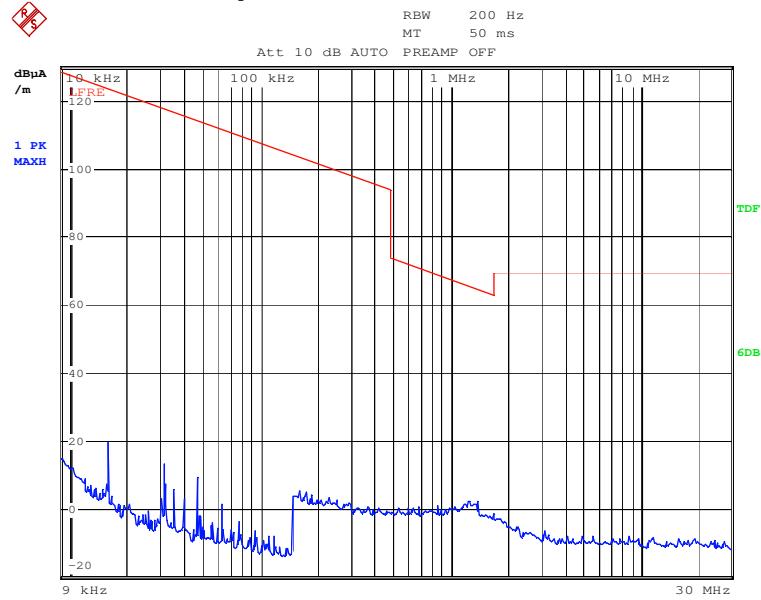
Job No.: PYH #604	Polarization: Vertical									
Standard: FCC Class B 3M Radiated	Power Source: DC 3V									
Test item: Radiation Test	Date: 12/12/29/									
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 10/30/51									
EUT: Mouse	Engineer Signature: PEI									
Mode: TX 2408MHz	Distance: 3m									
Model:										
Manufacturer:										
Note:										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24958.889	30.88	18.84	49.72	54.00	-4.28	peak			
2	24958.889	18.23	18.84	37.07	54.00	-16.93	AVG			

Test Plot of Spurious emission of A.2 – Horizontal (9kHz – 30MHz)



Date: 29.DEC.2012 14:48:52

Test Plot of Spurious emission of A.2 – Vertical (9kHz – 30MHz)



Date: 29.DEC.2012 14:42:29

Test Plot of Spurious emission of A.2 – Horizontal (30MHz – 1GHz)



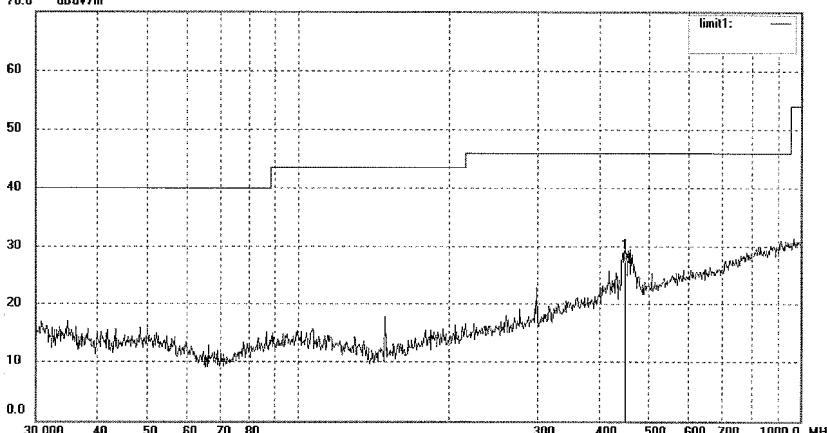
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Site: 2# Chamber

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Job No.:	PYH #554	Polarization:	Horizontal							
Standard:	FCC Class B 3M Radiated	Power Source:	DC 3V							
Test item:	Radiation Test	Date:	12/12/28/							
Temp. (C)/Hum.(%)	26 C / 56 %	Time:	10/59/40							
EUT:	Mouse	Engineer Signature:	PEI							
Mode:	TX 2440MHz	Distance:	3m							
Model:										
Manufacturer:										
Note:										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	450.0185	7.27	20.51	27.78	46.00	-18.22	QP			

Test Plot of Spurious emission of A.2 – Vertical (30MHz – 1GHz)



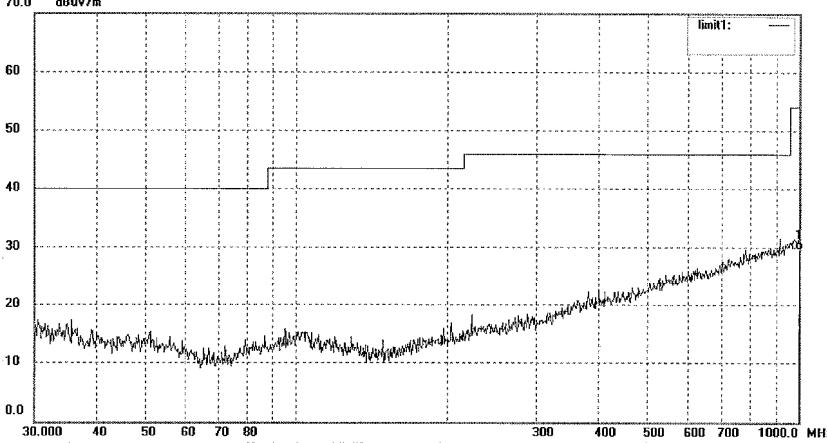
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Job No.: PYH #553	Polarization: Vertical									
Standard: FCC Class B 3M Radiated	Power Source: DC 3V									
Test item: Radiation Test	Date: 12/12/28/									
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 10/51/53									
EUT: Mouse	Engineer Signature: PEI									
Mode: TX 2440MHz	Distance: 3m									
Model:										
Manufacturer:										
Note:										
 <p>The graph plots Reading (dBuV/m) on the Y-axis (0.0 to 70.0) against Frequency (MHz) on the X-axis (30.000 to 1000.0). The signal shows a sharp increase starting around 80 MHz, reaching a plateau of approximately 45 dBuV/m between 300 and 700 MHz, before rising sharply again near 1 GHz to about 55 dBuV/m. A horizontal dashed line at 54 dBuV/m represents the limit1 level, which the signal exceeds significantly above 300 MHz.</p>										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1000.0000	0.66	29.04	29.70	54.00	-24.30	QP			

Test Plot of Spurious emission of A.2 –Horizontal (1GHz – 18GHz)



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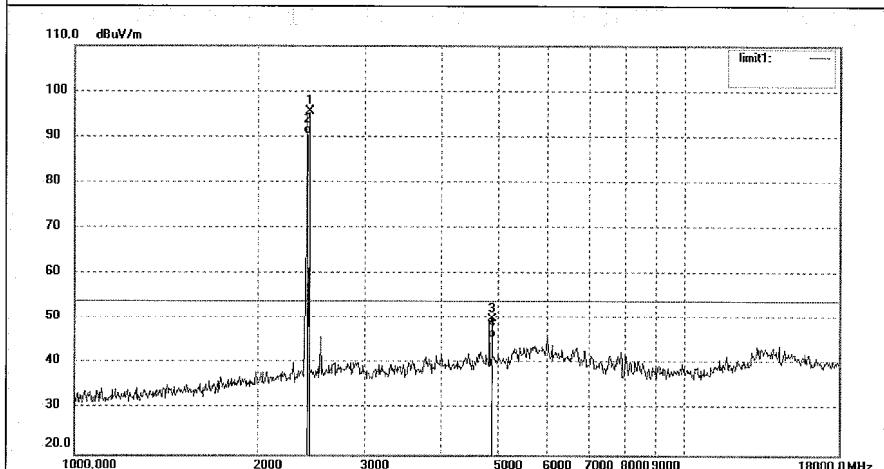
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #563	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28
Temp. (C)/Hum.(%) 26 C / 56 %	Time: 12/34/58
EUT: Mouse	Engineer Signature: PEI
Mode: TX 2440MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.524	102.79	-7.35	95.44	114.00	-18.56	peak			
2	2440.524	97.99	-7.35	90.64	94.00	-3.36	AVG			
3	4881.075	49.95	0.14	50.09	74.00	-23.91	peak			
4	4881.075	45.53	0.14	45.67	54.00	-8.33	AVG			

Test Plot of Spurious emission of A.2 –Vertical (1GHz – 18GHz)



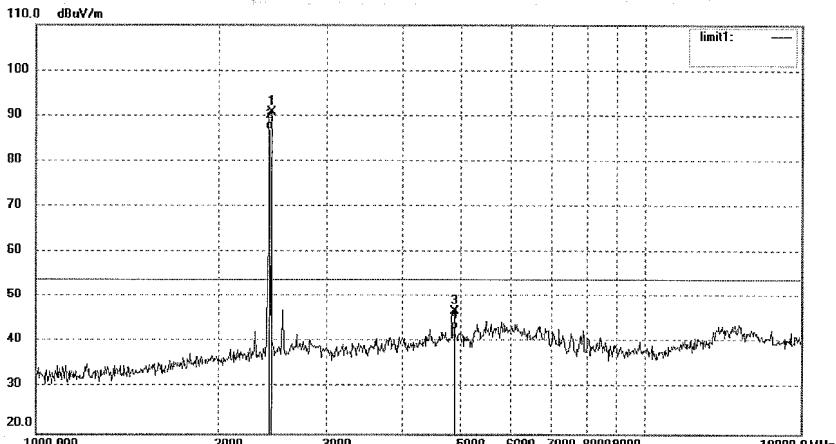
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Site: 2# Chamber

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Job No.: PYH #564	Polarization: Vertical									
Standard: FCC Class B 3M Radiated	Power Source: DC 3V									
Test item: Radiation Test	Date: 12/12/28/									
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 12/47/53									
EUT: Mouse	Engineer Signature: PEI									
Mode: TX 2440MHz	Distance: 3m									
Model:										
Manufacturer:										
Note:										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2440.525	98.07	-7.35	90.72	114.00	-23.28	peak			
2	2440.525	94.18	-7.35	86.83	94.00	-7.17	AVG			
3	4881.064	46.71	0.14	46.85	74.00	-27.15	peak			
4	4881.064	42.68	0.14	42.82	54.00	-11.18	AVG			

Test Plot of Spurious emission of A.2 –Horizontal (18GHz – 25GHz)



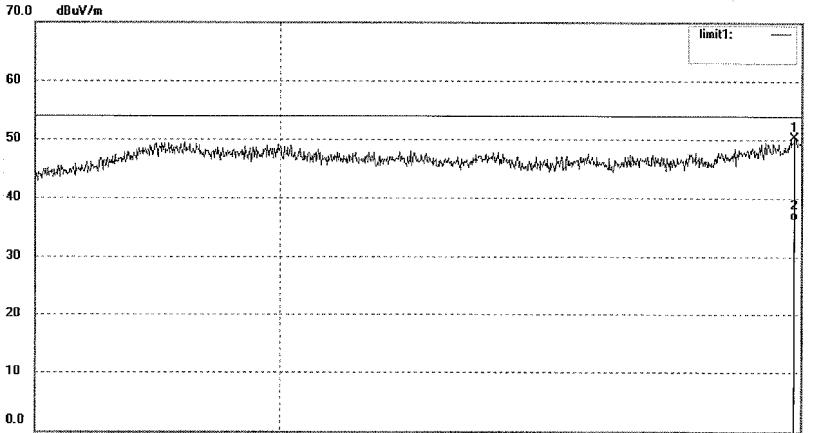
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Site: 2# Chamber

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Job No.: PYH #606	Polarization: Horizontal									
Standard: FCC Class B 3M Radiated	Power Source: DC 3V									
Test item: Radiation Test	Date: 12/12/29/									
Temp. (C/Hum.%) 25 C / 55 %	Time: 10/45/43									
EUT: Mouse	Engineer Signature: PEI									
Mode: TX 2440MHz	Distance: 3m									
Model:										
Manufacturer:										
Note:										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24934.254	31.43	18.81	50.24	54.00	-3.76	peak			
2	24934.254	17.53	18.81	36.34	54.00	-17.66	AVG			

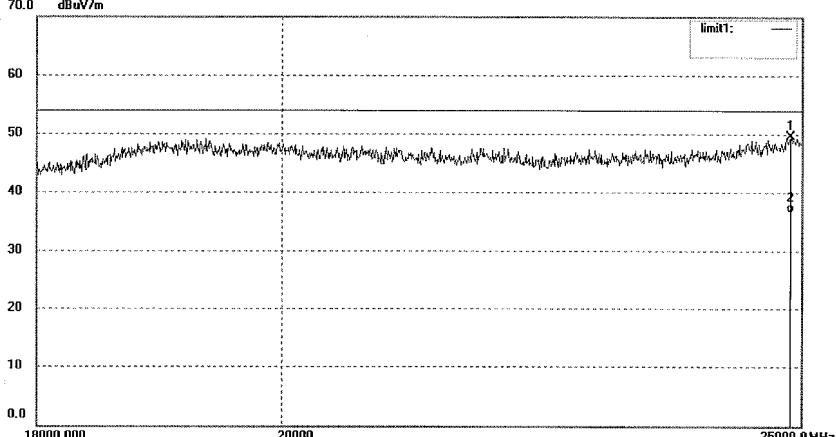
Test Plot of Spurious emission of A.2 –Vertical (18GHz – 25GHz)



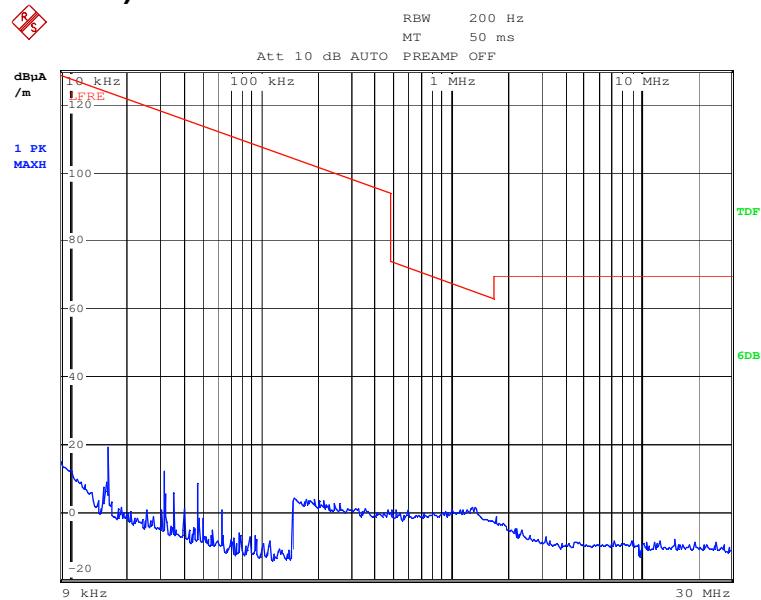
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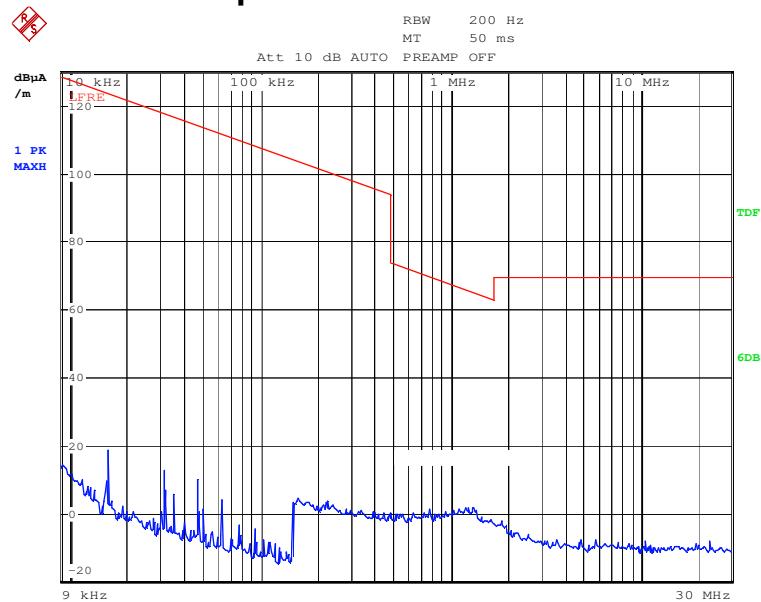
Job No.: PYH #607	Polarization: Vertical									
Standard: FCC Class B 3M Radiated	Power Source: DC 3V									
Test item: Radiation Test	Date: 12/12/29/									
Temp. (C)/Hum.(%) 25 C / 55 %	Time: 10/55/38									
EUT: Mouse	Engineer Signature: PEI									
Mode: TX 2440MHz	Distance: 3m									
Model:										
Manufacturer:										
Note:										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24885.058	30.82	18.74	49.56	54.00	-4.44	peak			
2	24885.058	17.93	18.74	36.67	54.00	-17.33	AVG			

Test Plot of Spurious emission of A.3 – Horizontal (9kHz – 30MHz)



Date: 29.DEC.2012 15:08:44

Test Plot of Spurious emission of A.3 – Vertical (9kHz – 30MHz)



Date: 29.DEC.2012 14:54:57

Test Plot of Spurious emission of A.3 – Horizontal (30MHz – 1GHz)



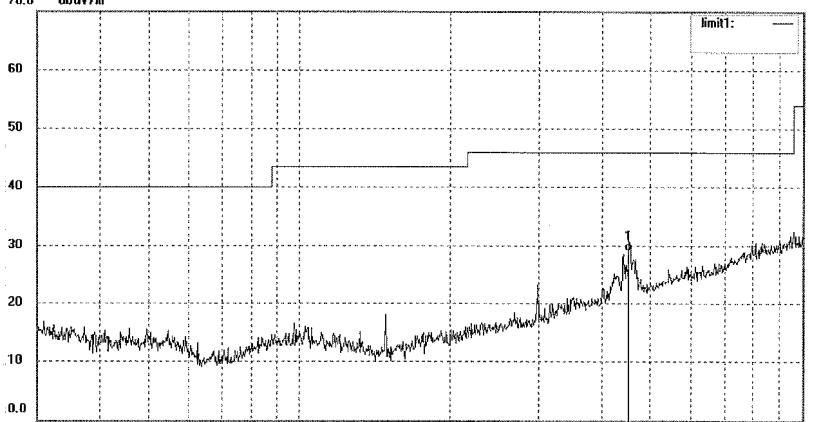
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Site: 2# Chamber

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Job No.: PYH #555	Polarization: Horizontal									
Standard: FCC Class B 3M Radiated	Power Source: DC 3V									
Test item: Radiation Test	Date: 12/12/28/									
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 11/10/02									
EUT: Mouse	Engineer Signature: PEI									
Mode: TX 2474MHz	Distance: 3m									
Model:										
Manufacturer:										
Note:										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	456.0019	8.53	20.61	29.14	46.00	-16.86	QP			

Test Plot of Spurious emission of A.3 – Vertical (30MHz – 1GHz)



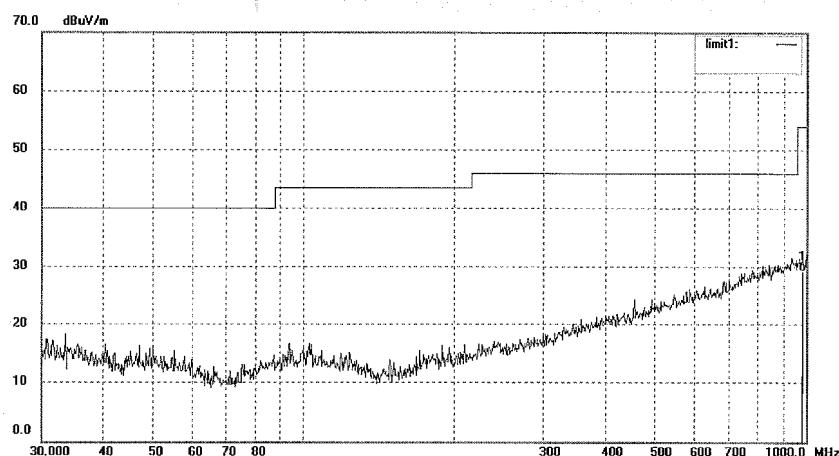
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Site: 2# Chamber
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Fax:+86-0755-26503396

Job No.:	PYH #556	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	DC 3V
Test item:	Radiation Test	Date:	12/12/28
Temp.(C)/Hum.(%)	26 C / 56 %	Time:	11/18/12
EUT:	Mouse	Engineer Signature:	PEI
Mode:	TX 2474MHz	Distance:	3m
Model:			
Manufacturer:			

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	982.5855	0.39	28.88	29.27	54.00	-24.73	QP			

Test Plot of Spurious emission of A.3 – Horizontal (1GHz – 18GHz)



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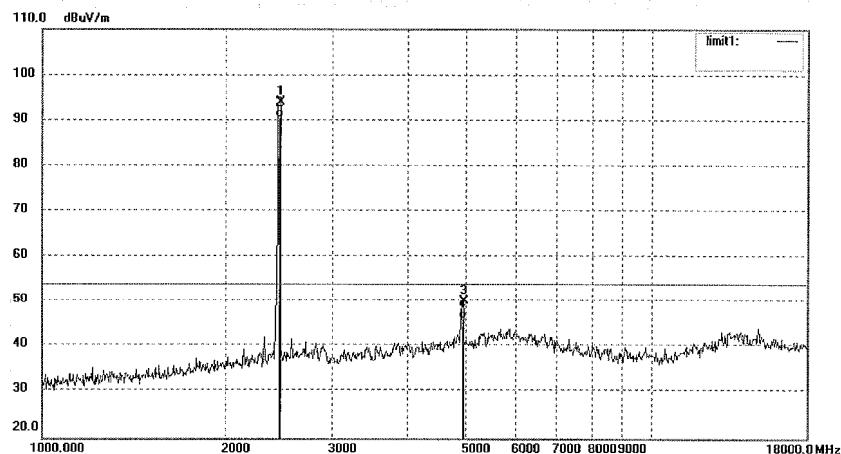
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #566	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp. (C)/Hum.(%) 26 C / 56 %	Time: 13/13/10
EUT: Mouse	Engineer Signature: PEI
Mode: TX 2474MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2473.541	101.36	-7.36	94.00	114.00	-20.00	peak			
2	2473.541	97.86	-7.36	90.50	94.00	-3.50	AVG			
3	4948.975	49.73	0.47	50.20	74.00	-23.80	peak			
4	4948.975	45.85	0.47	46.32	54.00	-7.68	AVG			

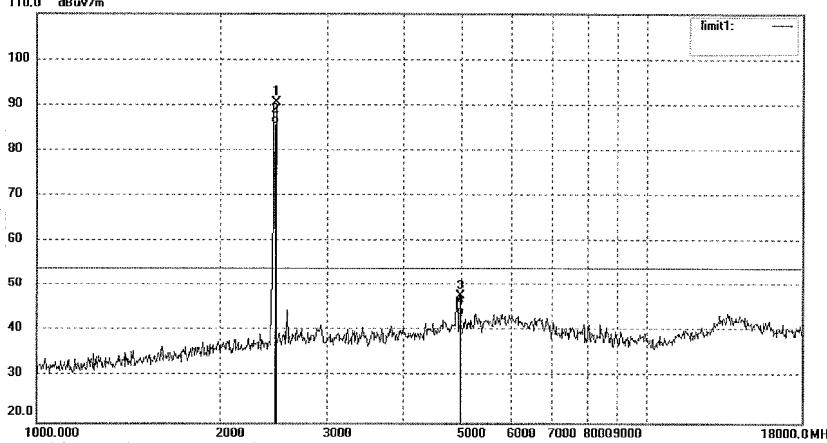
Test Plot of Spurious emission of A.3 – Vertical (1GHz – 18GHz)



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Site: 2# Chamber
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Fax:+86-0755-26503396

Job No.: PYH #565	Polarization: Vertical									
Standard: FCC Class B 3M Radiated	Power Source: DC 3V									
Test item: Radiation Test	Date: 12/12/28/									
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 12/59/30									
EUT: Mouse	Engineer Signature: PEI									
Mode: TX 2474MHz	Distance: 3m									
Model:										
Manufacturer:										
Note:										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2474.530	97.99	-7.37	90.62	114.00	-23.38	peak			
2	2474.530	93.27	-7.37	85.90	94.00	-8.10	AVG			
3	4948.983	47.25	0.47	47.72	74.00	-26.28	peak			
4	4948.983	43.05	0.47	43.52	54.00	-10.48	AVG			

Test Plot of Spurious emission of A.3 – Horizontal (18GHz – 25GHz)



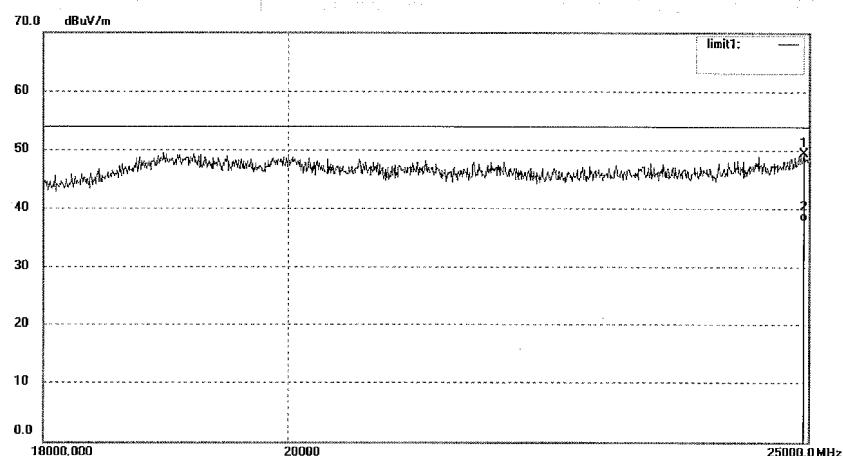
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Site: 2# Chamber
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Job No.: PYH #608	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 11/03/25
EUT: Mouse	Engineer Signature: PEI
Mode: TX 2474MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24950.674	30.67	18.83	49.50	54.00	-4.50	peak			
2	24950.674	19.14	18.83	37.97	54.00	-16.03	Avg			

Test Plot of Spurious emission of A.3 – Vertical (18GHz – 25GHz)



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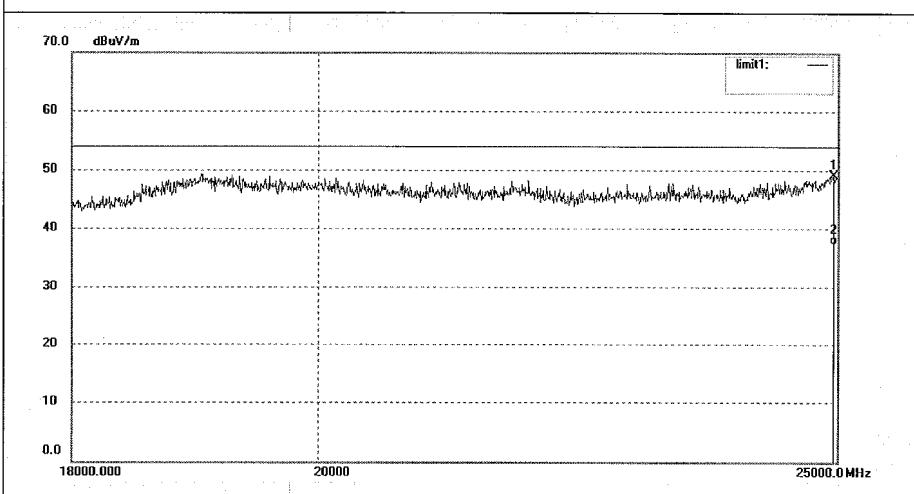
Site: 2# Chamber

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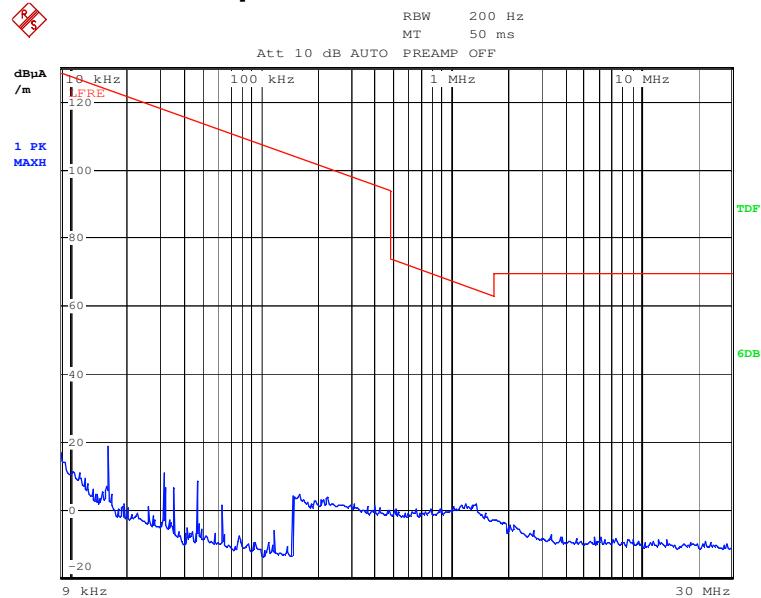
Job No.: PYH #609	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/29/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 11/11/33
EUT: Mouse	Engineer Signature: PEI
Mode: TX 2474MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



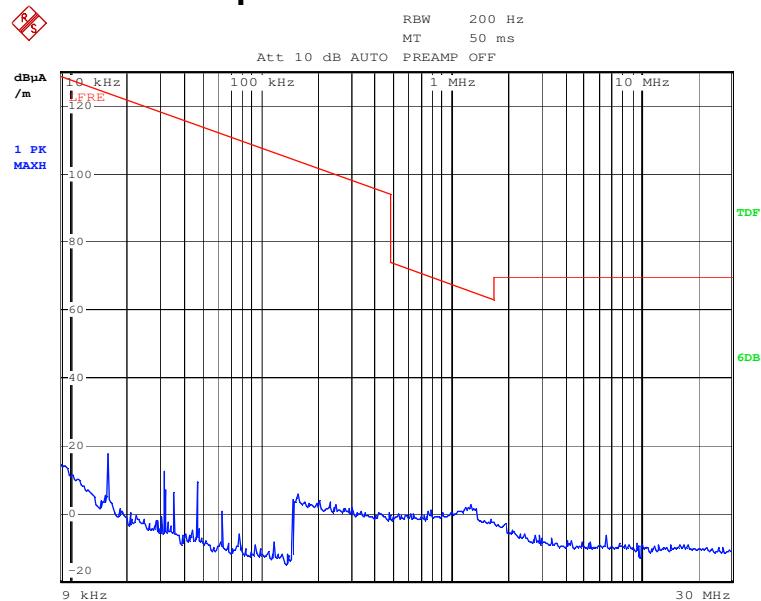
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24958.889	30.28	18.84	49.12	54.00	-4.88	peak			
2	24958.889	18.52	18.84	37.36	54.00	-16.64	Avg			

Test Plot of Spurious emission of C – Horizontal (9kHz – 30MHz)



Date: 29.DEC.2012 14:17:05

Test Plot of Spurious emission of C – Vertical (9kHz – 30MHz)



Date: 29.DEC.2012 14:11:09

Test Plot of Spurious emission of C – Horizontal (30MHz – 1GHz)



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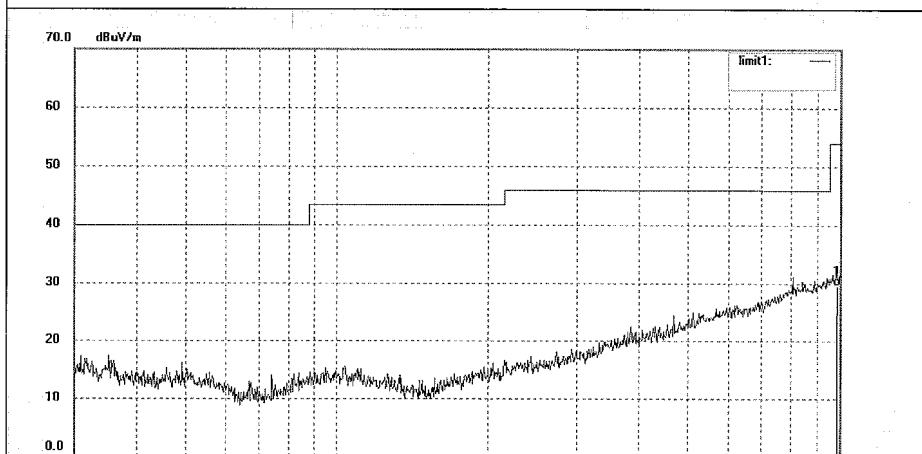
Site: 2# Chamber

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Fax:+86-0755-26503396

Job No.: PYH #558	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp. (C)/Hum.(%) 26 C / 56 %	Time: 11/32/20
EUT: Mouse	Engineer Signature: PEI
Mode: RX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	989.5145	0.75	28.92	29.67	54.00	-24.33	QP			

Test Plot of Spurious emission of C – Vertical (30MHz – 1GHz)

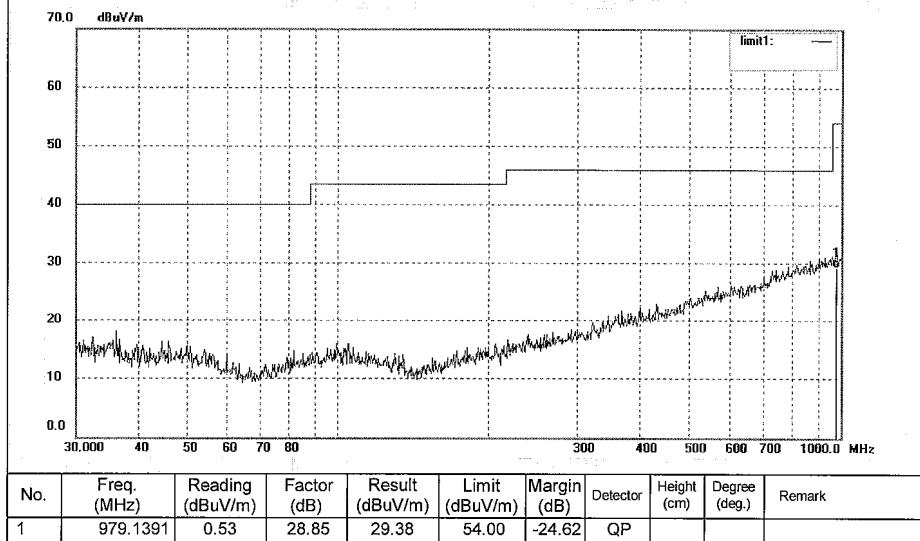


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Fax:+86-0755-26503396

Job No.: PYH #557	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C) /Hum.(%) 26 C / 56 %	Time: 11/24/04
EUT: Mouse	Engineer Signature: PEI
Mode: RX 2408MHz	Distance: 3m
Model:	
Manufacturer:	
Note:	



Test Plot of Spurious emission of C – Horizontal (1GHz – 18GHz)



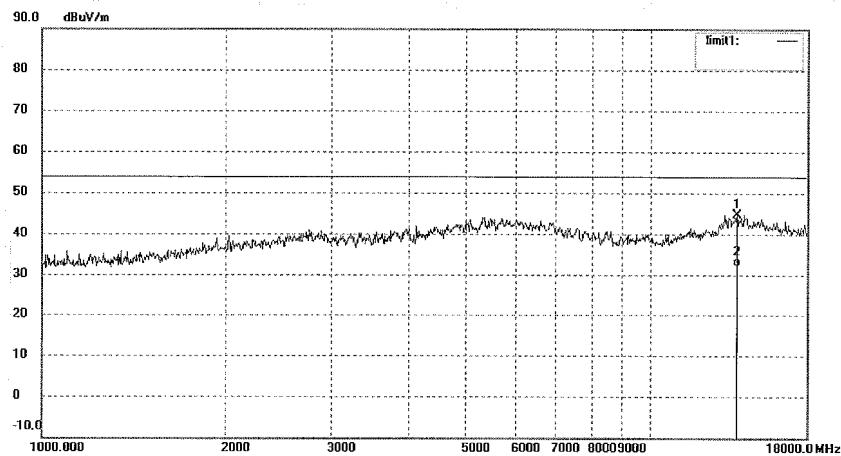
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: PYH #583	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28/
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 16/27/15
EUT: Mouse	Engineer Signature: PEI
Mode: RX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	13813.332	4.45	40.10	44.55	54.00	-9.45	peak			
2	13813.332	-7.90	40.10	32.20	54.00	-21.80	AVG			

Test Plot of Spurious emission of C – Vertical (1GHz – 18GHz)



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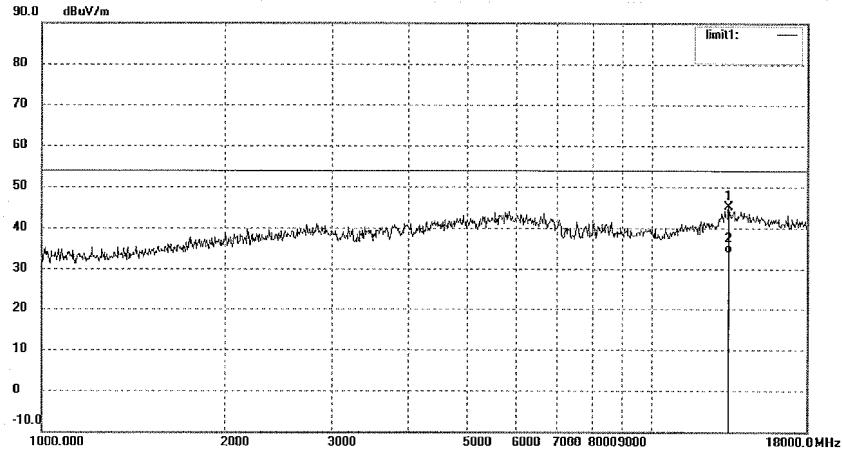
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #582	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 3V
Test item: Radiation Test	Date: 12/12/28
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 16/18/28
EUT: Mouse	Engineer Signature: PEI
Mode: RX 2408MHz	Distance: 3m
Model:	
Manufacturer:	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	13411.498	5.59	39.49	45.08	54.00	-8.92	peak			
2	13411.498	-5.69	39.49	33.80	54.00	-20.20	AVG			

Test Plot of Spurious emission of C – Horizontal (18GHz – 25GHz)



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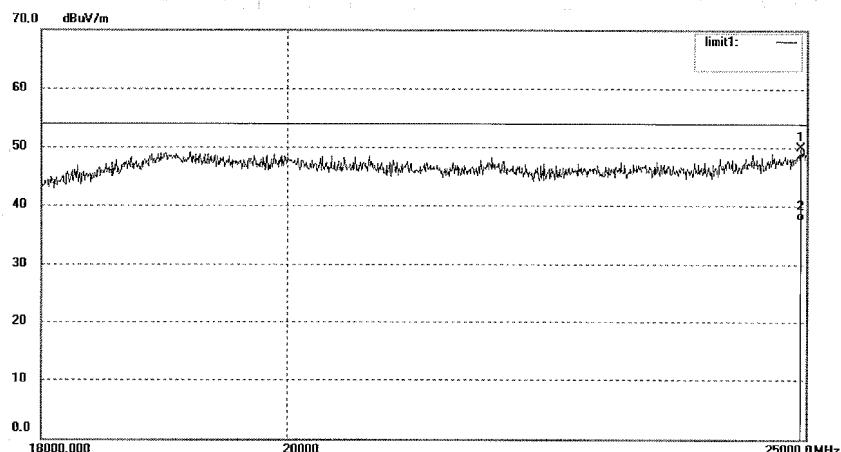
Site: 2# Chamber

Tel:+86-0755-26503290

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Job No.:	PYH #611	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	DC 3V
Test item:	Radiation Test	Date:	12/12/29/
Temp. (°C)/Hum.(%)	25°C / 55%	Time:	11/27/29
EUT:	Mouse	Engineer Signature:	PEI
Mode:	RX 2408MHz	Distance:	3m
Model:			
Manufacturer:			

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24942.463	31.14	18.82	49.96	54.00	-4.04	peak			
2	24942.463	18.71	18.82	37.53	54.00	-16.47	AVG			

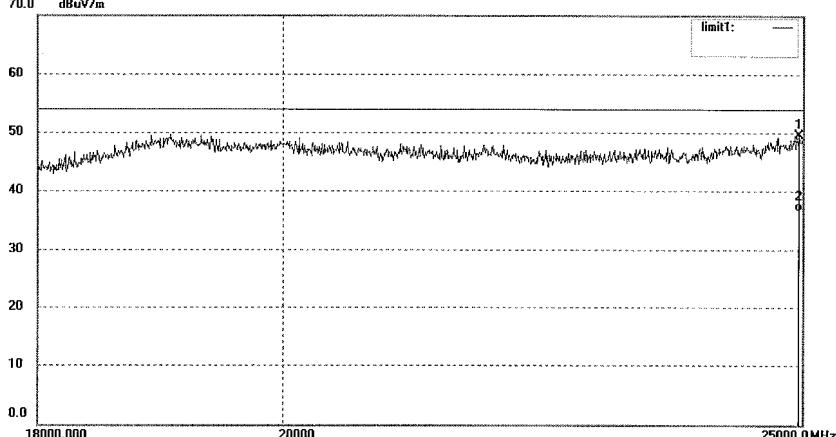
Test Plot of Spurious emission of C – Vertical (18GHz – 25GHz)



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Site: 2# Chamber
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Job No.: PYH #610	Polarization: Vertical									
Standard: FCC Class B 3M Radiated	Power Source: DC 3V									
Test item: Radiation Test	Date: 12/12/29/									
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 11/19/26									
EUT: Mouse	Engineer Signature: PEI									
Mode: RX 2408MHz	Distance: 3m									
Model:										
Manufacturer:										
Note:										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	24967.105	30.77	18.85	49.62	54.00	-4.38	peak			
2	24967.105	17.85	18.85	36.70	54.00	-17.30	AVG			

Test Plot of Radiated emissions in restricted bands, Mode A.1, Horizontal



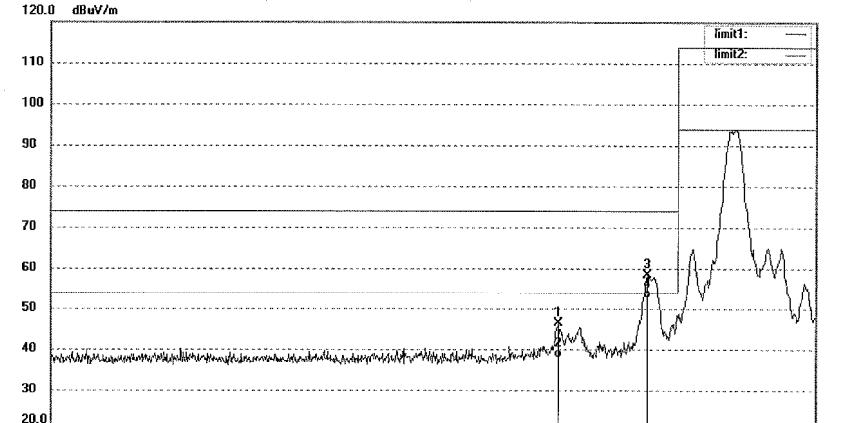
ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: PYH #562	Polarization: Horizontal									
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3V									
Test item: Radiation Test	Date: 12/12/28									
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 12/23/55									
EUT: Mouse	Engineer Signature: PEI									
Mode: TX 2408MHz	Distance: 3m									
Model:										
Manufacturer:										
Note:										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2382.458	53.99	-7.58	46.41	74.00	-27.59	peak			
2	2382.458	45.48	-7.58	37.90	54.00	-16.10	AVG			
3	2395.497	65.75	-7.49	58.26	74.00	-15.74	peak			
4	2395.497	60.09	-7.49	52.60	54.00	-1.40	AVG			

Test Plot of Radiated emissions in restricted bands, Mode A.1, Vertical



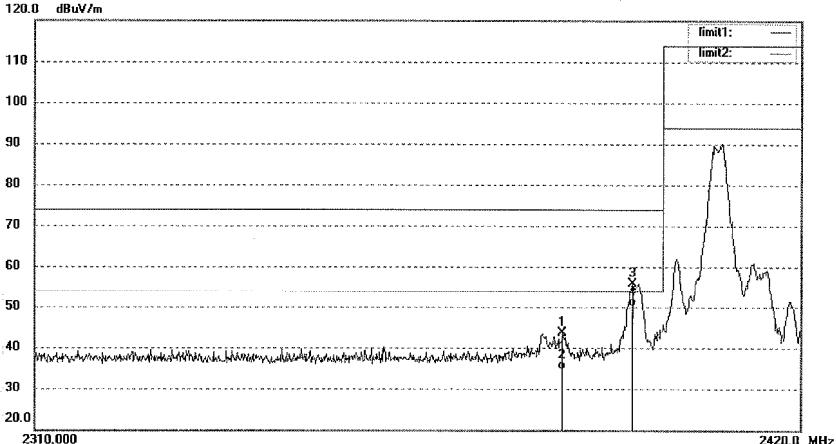
ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

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Job No.: PYH #561	Polarization: Vertical									
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3V									
Test item: Radiation Test	Date: 12/12/28/									
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 12/09/55									
EUT: Mouse	Engineer Signature: PEI									
Mode: TX 2408MHz	Distance: 3m									
Model:										
Manufacturer:										
Note:										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2385.409	51.10	-7.56	43.54	74.00	-30.46	peak			
2	2385.409	42.26	-7.56	34.70	54.00	-19.30	AVG			
3	2395.478	63.45	-7.49	55.96	74.00	-18.04	peak			
4	2395.478	57.59	-7.49	50.10	54.00	-3.90	AVG			

Test Plot of Radiated emissions in restricted bands, Mode A.3, Horizontal



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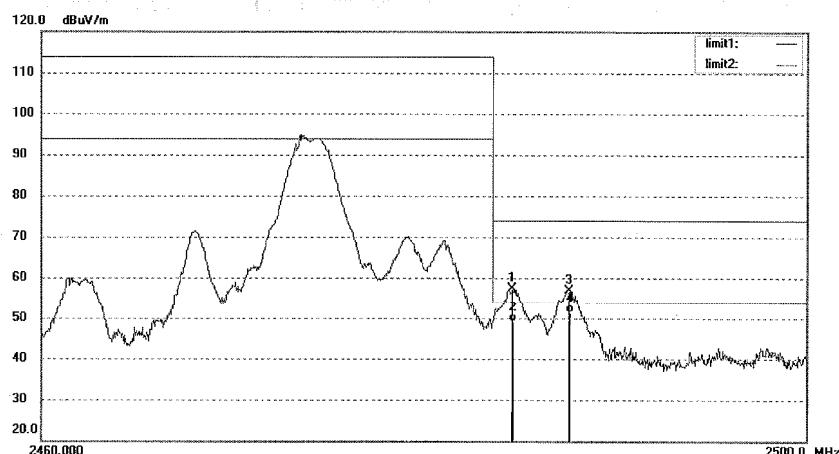
Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	PYH #567	Polarization:	Horizontal
Standard:	FCC Part 15 Band Edge (2.4G)	Power Source:	DC 3V
Test item:	Radiation Test	Date:	12/12/28/
Temp. (C)/Hum.(%)	26 C / 56 %	Time:	13/25/51
EUT:	Mouse	Engineer Signature:	PEI
Mode:	TX 2474MHz	Distance:	3m
Model:			
Manufacturer:			

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2484.530	64.73	-7.38	57.35	74.00	-16.65	peak			
2	2484.530	56.48	-7.38	49.10	54.00	-4.90	AVG			
3	2487.524	64.36	-7.38	56.98	74.00	-17.02	peak			
4	2487.524	58.88	-7.38	51.50	54.00	-2.50	AVG			

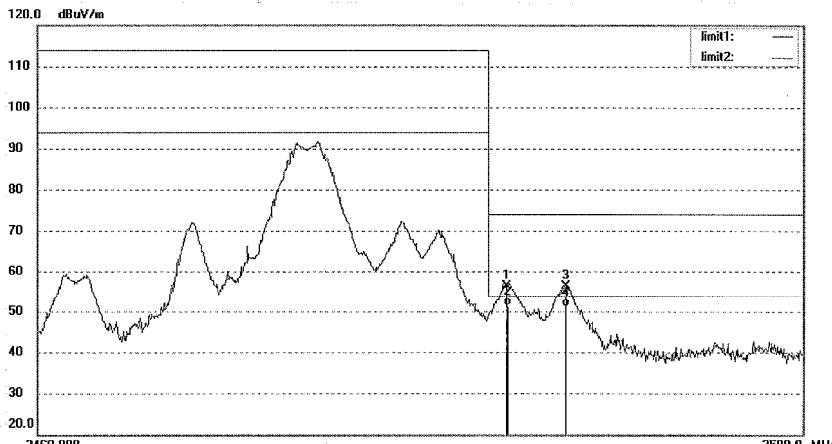
Test Plot of Radiated emissions in restricted bands, Mode A.3, Vertical



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
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Job No.: PYH #568	Polarization: Horizontal									
Standard: FCC Part 15 Band Edge (2.4G)	Power Source: DC 3V									
Test item: Radiation Test	Date: 12/12/28									
Temp.(C)/Hum.(%) 26 C / 56 %	Time: 13:38:24									
EUT: Mouse	Engineer Signature: PEI									
Mode: TX 2474MHz	Distance: 3m									
Model:										
Manufacturer:										
Note:										
										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2484.481	63.69	-7.38	56.31	74.00	-17.69	peak			
2	2484.481	58.78	-7.38	51.40	54.00	-2.60	AVG			
3	2487.547	63.69	-7.38	56.31	74.00	-17.69	peak			
4	2487.547	58.48	-7.38	51.10	54.00	-2.90	AVG			