

### FCC Radio TEST Report FCC ID: HQXAXM-912P

This report concerns (check one): Original Grant Class II Change

Issued Date : Mar. 09, 2010 Project No. : 1002C112

Equipment : Metallic Wireless Mouse

Model Name : AXM-912P
Applicant : Sysgration Ltd.

Address : 10Fl.,NO.868-3,Chung Cheng Rd.,Chung

Ho, Taipei, Taiwan, R.O.C.

Manufacturer : Sysgration(Shenzhen) Ltd.

Address : Egongling Village, Pinghu Town, Longgang Dist,

Shenzhen City, China

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Test:

Feb. 25, 2010 ~ Mar. 08, 2010

Testing Engineer

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Authorized Signatory

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### 1. CERTIFICATION

Equipment: Metallic Wireless Mouse

Trade Name: Sysgration Model Name: AXM-912P Applicant: Sysgration Ltd..

F a c t o r y: Sysgration(Shenzhen) Ltd.

A d d r e s s: Egongling Village, Pinghu Town, Longgang Dist, Shenzhen City, China

Date of Test: Feb. 25, 2010 ~ Mar. 08, 2010 Test Item: ENGINEERING SAMPLE

Standards: FCC Part15, Subpart C(15.249)/ ANSI C63.4: 2003

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-1002C112) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Test result included in this report is only for the Mouse part of the product.

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### 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.249)				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	-	N/A	
15.249	Radiated Spurious Emission	PASS		

### NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) The EUT used new battery.

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### 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **CB03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792 Neutron's test firm number is 319330

### 2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}$ , providing a level of confidence of approximately 95 %  $\circ$ 

### A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
C01	ANSI	150 KHz ~ 30MHz	1.94	

### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
CB03	ANSI	30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	Н	3.94	

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### 3. GENERAL INFORMATION

### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Metallic Wireless Mouse			
Trade Name	Sysgration			
Model Name.	AXM-912P	AXM-912P		
OEM Brand/Model Name	GE / 98134			
Model Difference	N/A			
	The EUT is a Metallic V	Vireless Mouse.		
	Product Type	Low Power Communication		
		Device		
	Operation Frequency:	2418~2463 MHz		
	Modulation Type:	GFSK		
	Number Of Channel	16CH		
Product Description	Antenna Designation:	Printed Antenna		
	Antenna Gain(Peak)	1.80 dBi		
	Output Power:	70.74dBuV/m (AV Max.)		
	exhibited in User's Man ITE/Computing Device.	on, features, or specification rual, the EUT is considered as an More details of EUT technical fer to the User's Manual.		
Channel List	Please refer to the Note	e 2.		
Power Source	DC Voltage supplied from Battery			
Power Rating	DC 3.0V			
Connecting I/O Port(s)	Please refer to the User's Manual			
Products Covered	N/A			

### Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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Freqeuncy Band	Channel No.	Frequency
	1	2418 MHz
	2	2421 MHz
	3	2424 MHz
	4	2427 MHz
	5	2430 MHz
	6	2433 MHz
	7	2436 MHz
2400~2483.5MHz	8	2439 MHz
2400°2403.3WII IZ	9	2442 MHz
	10	2445 MHz
	11	2448 MHz
	12	2451 MHz
	13	2454 MHz
	14	2457 MHz
	15	2460 MHz
	16	2463 MHz

### 3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed Antenna	N/A	1.80

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### 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH Lower - 2418MHz
Mode 2	CH Middle - 2442MHz
Mode 3	CH Highest -2463MHz

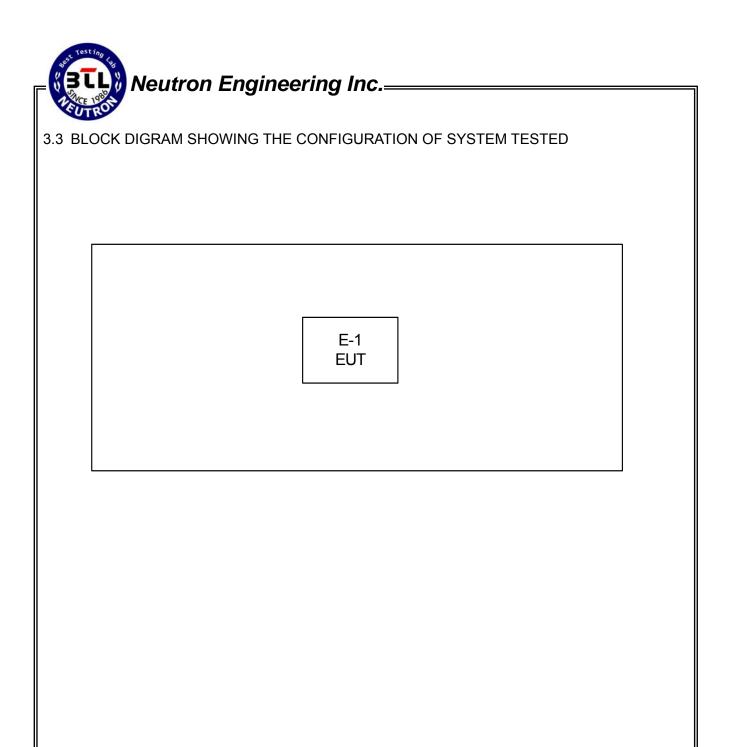
For Conducted Test			
Final Test Mode Description			
	" N/A" denotes test is not applicable in this Test Report		

For Radiated Test		
Final Test Mode	Description	
Mode 1	CH Lower - 2418MHz	
Mode 2	CH Middle - 2442MHz	
Mode 3	CH Highest -2463MHz	

Note:

(1) The EUT used the new battery

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### 3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	, ,	Mfr/Brand	Model/Type No.	FCCID	Series No.	Note
E-1	Metallic Wireless Mouse	Sysgration	AXM-912P	HQXAXM-912P	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.

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### 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

### 4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard	
TREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Staridard	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR	
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR	
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR	

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

### Note

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

### 4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00042991	Jan. 23, 2011
2	LISN	EMCO	4825/2	00028234	Jul. 13, 2010
3	Pulse Limiter	Electro-Metrics	EM-7600	112644	Nov. 25, 2010
4	50Ω Terminator	N/A	N/A	N/A	May.12, 2010
5	Test Cable	N/A	C01	N/A	Nov. 25, 2010
6	EMI Test Receiver	R&S	ESCI	100082	Mar. 07, 2011

Remark: "N/A" denotes No Model Name., Serial No. or No Calibration specified.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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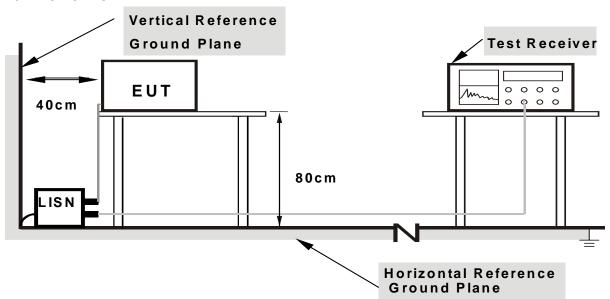
### 4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

### 4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

### 4.1.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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### 4.1.7 TEST RESULTS

EUT:	Metallic Wireless Mouse	Model Name. :	AXM-912P	
Temperature:	<b>20</b> ℃	Relative Humidity:	51 %	
Pressure:	1002hPa	Test Power : DC 3.0V		
Test Mode :	" N/A" denotes test is not applicable in this Test Report			

### Remark

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note ... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform on this case, a " \* " marked in AVG Mode column of Interference Voltage Measured on the North AVG Mode column of Interference Voltage Measured on
- (2) Measuring frequency range from 150KHz to 30MHz.
- (3) " N/A" denotes test is not applicable in this Test Report

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### 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 RADIATED EMISSION LIMITS (FCC 15.209)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other 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 comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

### Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

### LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.209)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
PREQUENCT (WITZ)	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

### LIMITS OF RADIATED EMISSION MEASUREMENT (FCC Part 15.249)

FCC Part15 (15.249) , Subpart C				
Limit	Frequency Range (MHz)			
Field strength of fundamental 50000 μV/m (94 dBμV/m) @ 3 m	2400-2483.5			
Field strength of harmonics 500 μV/m (54 dBμV/m) @ 3 m	Above 2483.5			

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### 4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB9168-35 2	9168-352	Jun. 17, 2010
2	Pre-Amplifier	EMC	EMC-330	980001	Jun. 04, 2010
3	Test Cable	N/A	LMR-400	966_12m	Jun. 18, 2010
4	Test Cable	N/A	LMR-400	966_3m	Jun. 18, 2010
5	Spectrum Analyzer	R&S	FSP-40	100129	Sep. 10, 2010
6	EMI Measuring Receiver	SHCAFFNER	SCR 3501	408	Dec. 15.2010
7	Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-546	Jun. 04, 2010
8	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 20, 2010
9	Microflex Cable	N/A	N/A	1m	May. 20, 2010
10	Microflex Cable	AISI	S104-SMAP-1	10m	Aug. 23, 2010
11	Microflex Cable	N/A	N/A	3m	Aug. 23, 2010
12	Microflex Cable	United Microwave	A30A30-5006	10M	Jul. 05, 2010

Remark: "N/A" denotes No Model Name. / Serial No. and No Calibration specified.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, Average=PK-dycty cycle

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

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DUTY CYCLE: TX 2418MHz

Dwell time=ON/ON+OFF

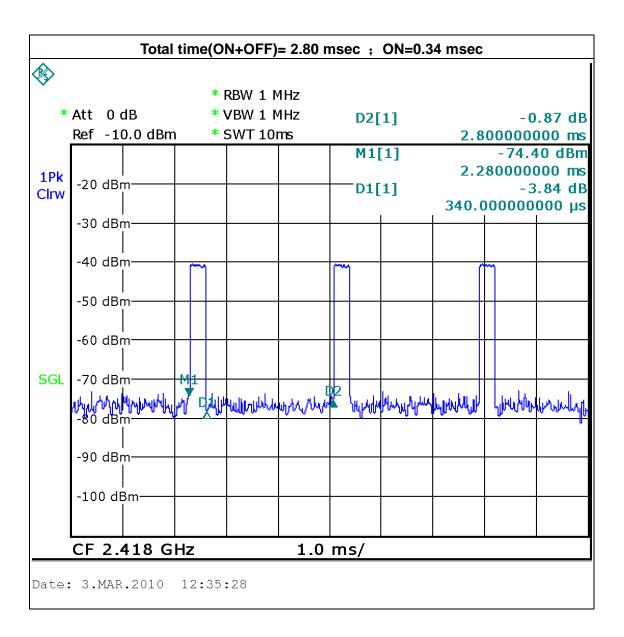
ON:0.34msec

ON+OFF:(total time):2.80msec

Dwell time:12.14%

AV=PK+20 log(Dwell time)

AV=PK-18.31



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### 4.2.3 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

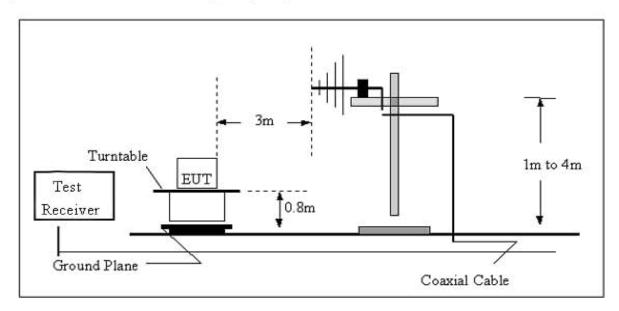
4.2.4 DEVIATION FROM TEST STANDARD	
No deviation	

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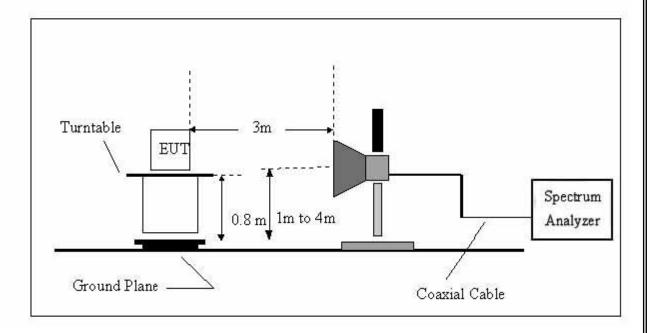


### 4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-UP Frequency Above 1 GHz



### 4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

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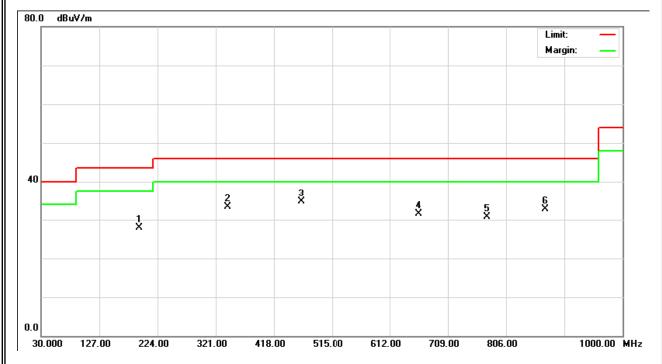
### 4.2.7 TEST RESULTS (BETWEEN 30 – 1000 MHz)

EUT:	Metallic Wireless Mouse	Model Name. :	AXM-912P
Temperature:	<b>22</b> ℃	Relative Humidity:	45 %
Pressure:	1002hPa	Test Power :	DC 3.0V
Test Mode :	TX CH 2418MHz		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
192.48	V	44.69	-16.69	28.00	43.50	- 15.50	
339.45	V	44.38	-11.10	33.28	46.00	- 12.72	
462.73	V	42.69	-7.92	34.77	46.00	- 11.23	
660.18	V	34.82	-3.30	31.52	46.00	- 14.48	
773.49	V	33.02	-2.24	30.78	46.00	- 15.22	
870.66	V	33.24	-0.54	32.70	46.00	- 13.30	

### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  ${}^{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency  $\circ$  "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission  $\,^{\circ}$
- (4) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



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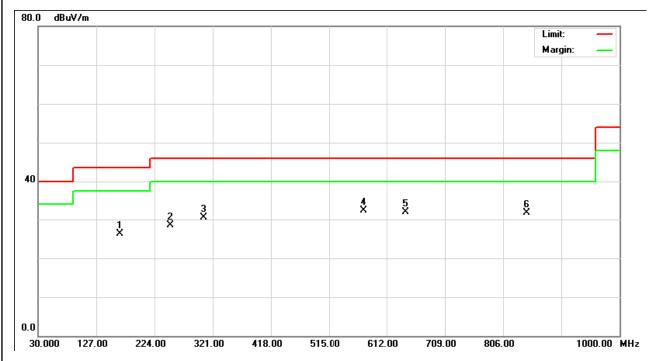


EUT:	Metallic Wireless Mouse	Model Name. :	AXM-912P
Temperature:	<b>22</b> ℃	Relative Humidity:	45 %
Pressure:	1002hPa	Test Power :	DC 3.0V
Test Mode :	TX CH 2418MHz		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
164.87	Н	43.72	-17.48	26.24	43.50	- 17.26	
249.78	Н	43.16	-14.58	28.58	46.00	- 17.42	
305.98	Н	42.48	-11.92	30.56	46.00	- 15.44	
573.94	Н	37.14	-4.90	32.24	46.00	- 13.76	
643.95	Н	35.27	-3.45	31.82	46.00	- 14.18	
845.16	Н	32.71	-0.98	31.73	46.00	- 14.27	

### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ∘
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission •
- (4) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



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### 4.2.8 TEST RESULTS (ABOVE 1000 MHz)

EUT:	Metallic Wireless Mouse	Model Name. :	AXM-912P
Temperature:	<b>20</b> ℃	Relative Humidity:	51 %
Pressure:	1008 hPa	Test Power :	DC 3.0V
Test Mode :	TX 2418MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	A	ct.	Lir	mit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	17.90	-0.41	31.38	49.28	30.97	74.00	54.00	X/E
2417.76	V	47.10	28.79	31.36	78.46	60.15	114.00	94.00	X/F
4835.70	V	62.36	44.05	5.70	68.06	49.75	74.00	54.00	X/H

### Remark:

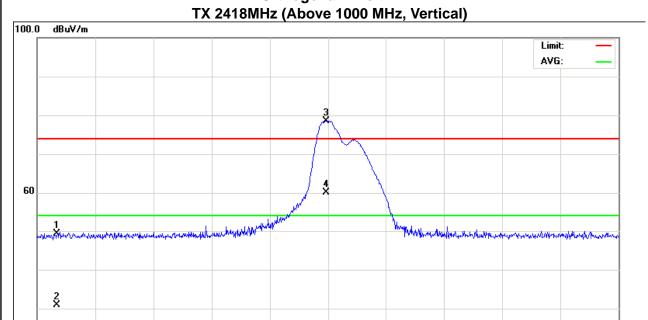
- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ∘
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:

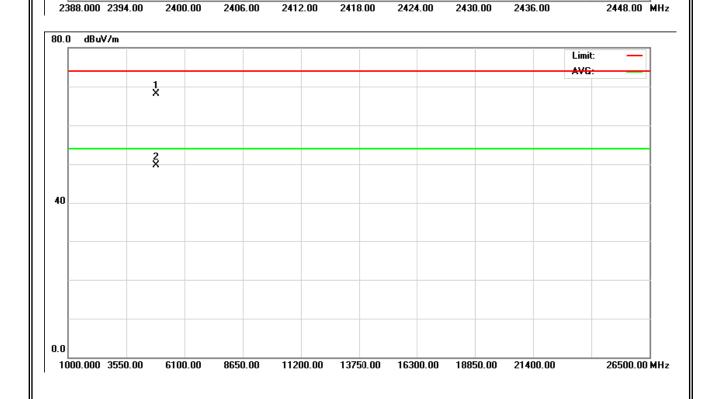
  Average = Peak value + 20log(Duty cycle) , Final AV=PK-18.31

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# Neutron Engineering Inc. Orthogonal Axis: X TX 2418MHz (Above 1000 MHz

20.0





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EUT:	Metallic Wireless Mouse	Model Name. :	AXM-912P
Temperature:	<b>20</b> ℃	Relative Humidity:	51 %
Pressure:	1008 hPa	Test Power :	DC 3.0V
Test Mode :	TX 2418MHz		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	/CF Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	16.73	-1.58	31.38	48.11	29.80	74.00	54.00	X/E
2417.94	Н	50.84	32.53	31.36	82.20	63.89	114.00	94.00	X/F
4835.67	Н	57.42	39.11	5.70	63.12	44.81	74.00	54.00	X/H

### Remark:

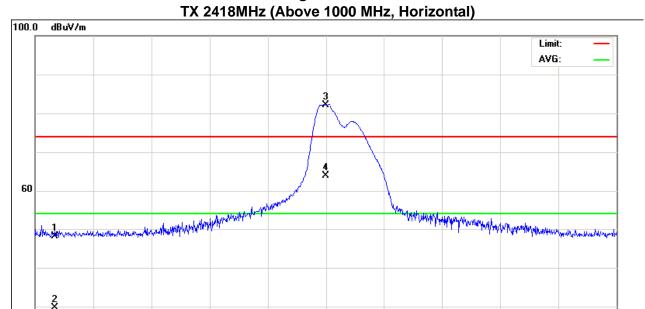
- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:

  Average = Peak value + 20log(Duty cycle) → Final AV=PK-18.31

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## Neutron Engineering Inc. Orthogonal Axis: X TX 2418MHz (Above 1000 MHz,

20.0





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EUT:	Metallic Wireless Mouse	Model Name. :	AXM-912P
Temperature:	<b>20</b> ℃	Relative Humidity:	51 %
Pressure:	1008 hPa	Test Power :	DC 3.0V
Test Mode :	TX 2442MHz		

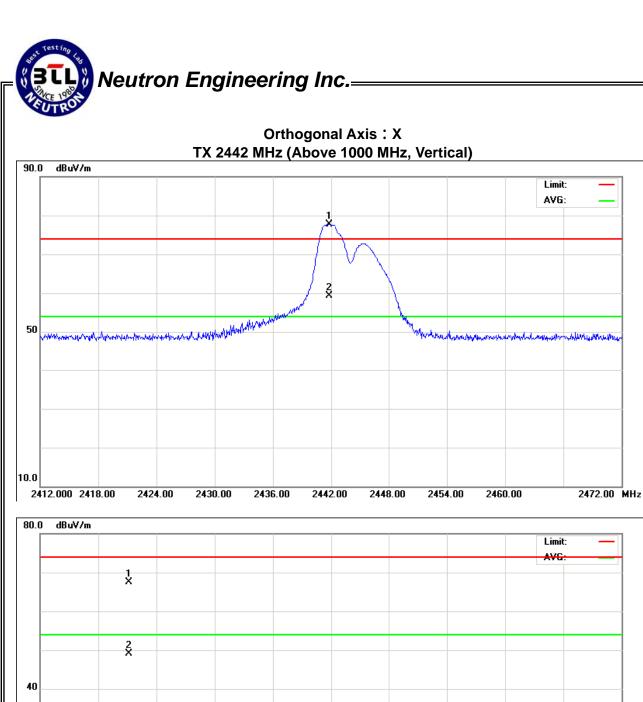
Freq.	Ant.Pol.	Reading		Ant./CF	A	ct.	Lir	mit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.76	V	46.31	28.00	31.36	77.67	59.36	114.00	94.00	X/F
4883.65	V	61.69	43.38	5.82	67.51	49.20	74.00	54.00	X/H

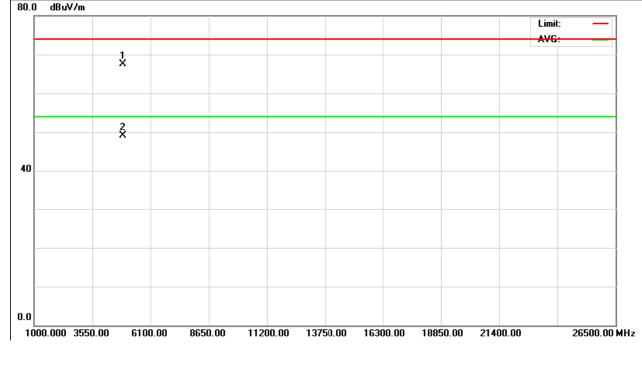
### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission o
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:

  Average = Peak value + 20log(Duty cycle) , Final AV=PK-18.31

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EUT:	Metallic Wireless Mouse	Model Name. :	AXM-912P
Temperature:	<b>20</b> ℃	Relative Humidity:	51 %
Pressure:	1008 hPa	Test Power :	DC 3.0V
Test Mode :	TX 2442MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.82	Н	57.08	38.77	31.36	88.44	70.13	114.00	94.00	X/F
4883.65	Н	55.32	37.01	5.82	61.14	42.83	74.00	54.00	X/H

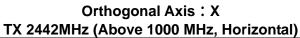
### Remark:

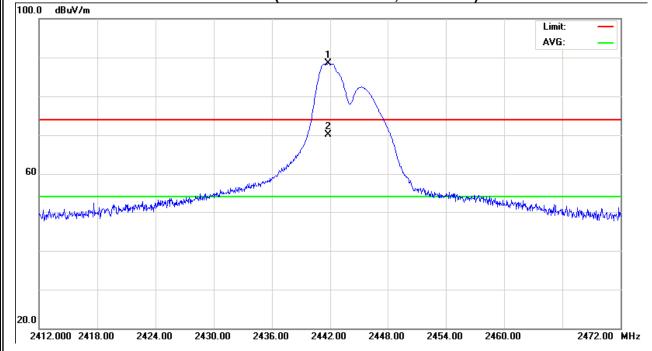
- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:

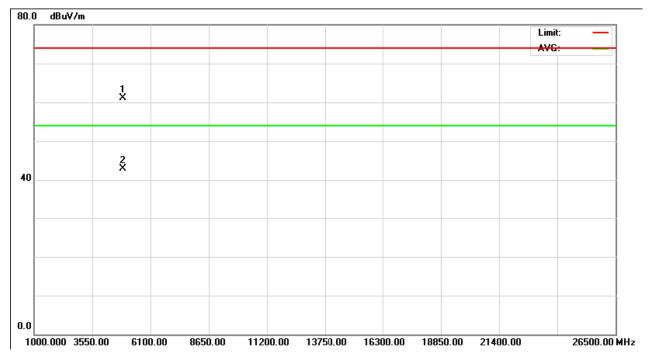
  Average = Peak value + 20log(Duty cycle) , Final AV=PK-18.31

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EUT:	Metallic Wireless Mouse	Model Name. :	AXM-912P
Temperature:	<b>20</b> ℃	Relative Humidity:	51 %
Pressure:	1008 hPa	Test Power :	DC 3.0V
Test Mode :	TX 2463MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2463.24	V	50.90	32.59	31.34	82.24	63.93	114.00	94.00	X/F
2483.50	V	16.84	-1.47	31.33	48.17	29.86	74.00	54.00	X/E
4925.62	V	60.61	42.30	5.93	66.54	48.23	74.00	54.00	X/H

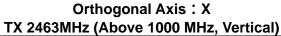
### Remark:

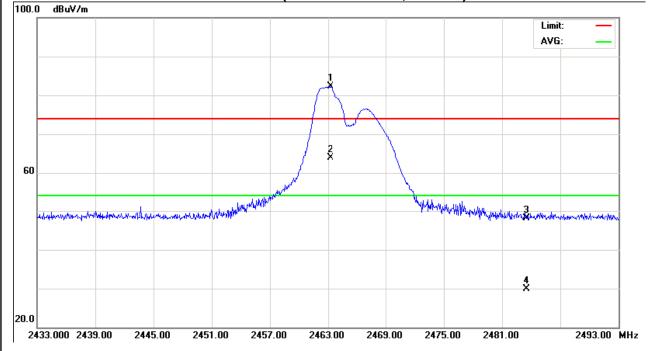
- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note $_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:

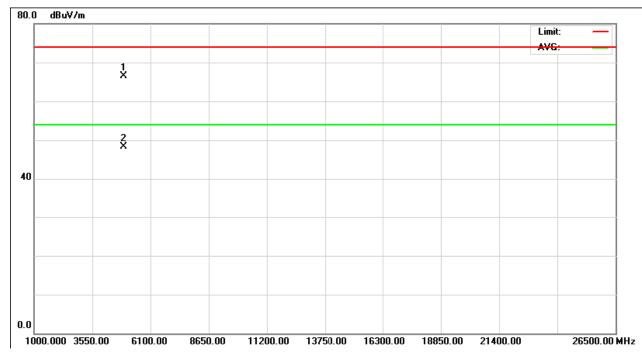
  Average = Peak value + 20log(Duty cycle) , Final AV=PK-18.31

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EUT:	Metallic Wireless Mouse	Model Name. :	AXM-912P
Temperature:	<b>20</b> ℃	Relative Humidity:	51 %
Pressure:	1002hPa	Test Power :	DC 3.0V
Test Mode :	TX 2463MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2462.82	Н	57.71	39.40	31.34	89.05	70.74	114.00	94.00	X/F
2483.50	Н	19.71	1.40	31.33	51.04	32.73	74.00	54.00	X/E
4926.38	Н	54.83	36.52	5.92	60.75	42.44	74.00	54.00	X/H

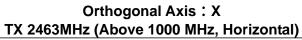
### Remark:

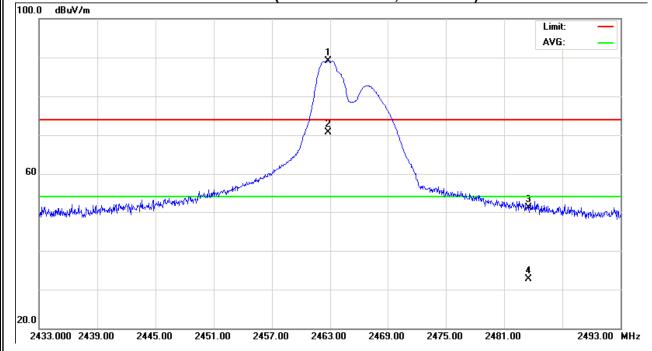
- (1) All readings are Peak unless otherwise stated QP in column of  ${}^{\mathbb{F}}$ Note $_{\mathbb{J}}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (4) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:

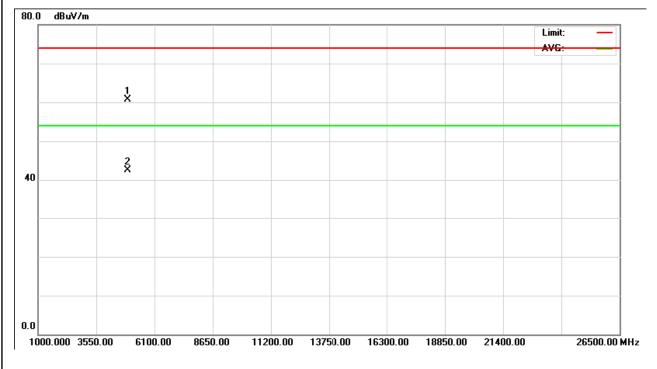
  Average = Peak value + 20log(Duty cycle) , Final AV=PK-18.31

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### 4.2.9 TEST RESULTS (2400 – 2483.5 MHz)

EUT:	Metallic Wireless Mouse	Model Name. :	AXM-912P				
Temperature:	<b>20</b> ℃	Relative Humidity:	51 %				
Pressure:	1008 hPa Test Power : DC 3.0V						
Test Mode :	TX CH 2418MHz/2442MHz/2463MHz						

		Peak	AV		Peak	ΑV	Peak	AV	
Freq.	Ant.Pol.	Read	ding	Ant./CL/	Actual FS		Limit3 m		
(MHz)	(H/V)	(dBuV)	(dBuV)	CF(dB)	(dBu V/m)	(dBuV/m)	(dBuV/m)	(d Bu V/m)	NOTE
24 17 .76	V	47.10	28.79	31.36	78.46	60.15	114.00	94.00	CH01
24 17 .94	Н	50.84	32.53	31.36	82.20	63.89	114.00	94.00	CH01
2441.76	V	46.31	28.00	31.36	77 .67	59.36	114.00	94.00	CH09
2441.82	Н	57.08	38.77	31.36	88.44	70.13	114.00	94.00	CH09
2463.24	V	50.90	32.59	31.34	82.24	63.93	114.00	94.00	CH16
2462.82	Н	57.71	39.40	31.34	89.05	70.74	114.00	94.00	CH16

### Remark:

- (1) All readings are Peak unless otherwise stated QP in column of  $\lceil$ Note $_{
  m J}$ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform  $_{
  m O}$
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (3) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (5) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (6) The average value of fundamental frequency is:

  Average = Peak value + 20log(Duty cycle) , Final AV=PK-18.31

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### 4.2.10 TEST RESULTS (Restricted Bands Requirements)

EUT:	Metallic Wireless Mouse	Model Name. :	AXM-912P						
Temperature:	20 ℃	Relative Humidity:	51 %						
Pressure:	1008 hPa	Test Power :	DC 3.0V						
Test Mode :	TX CH 2418MHz/2463MHz(Vertical)								
Note:	<ul> <li>The emission of the carrier radial AV) as following:</li> <li>1. The transmitter was then conto transmit at the lowest charmeasured at 2310-2390 MH;</li> <li>2. The transmitter was configurationsmit at the highest charmeasured at 2483.5-2500 M</li> </ul>	nfigured with the wor nnel (CH01). Then th z. red with the worst can nel (CH16). Then the	st case antenna and setup ne field strength was se antenna and setup to						

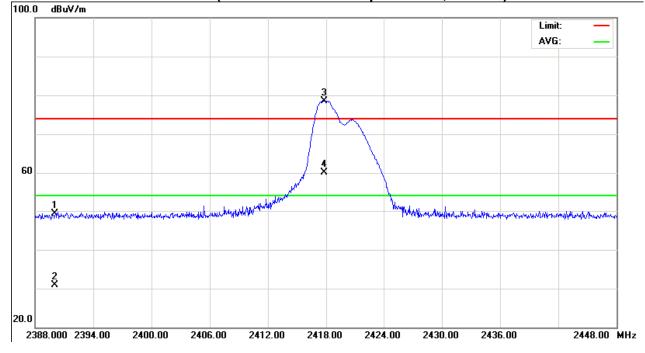
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	17.90	-0.41	31.38	49.28	30.97	74.00	54.00	CH01
2483.50	V	16.84	-1.47	31.33	48.17	29.86	74.00	54.00	CH16

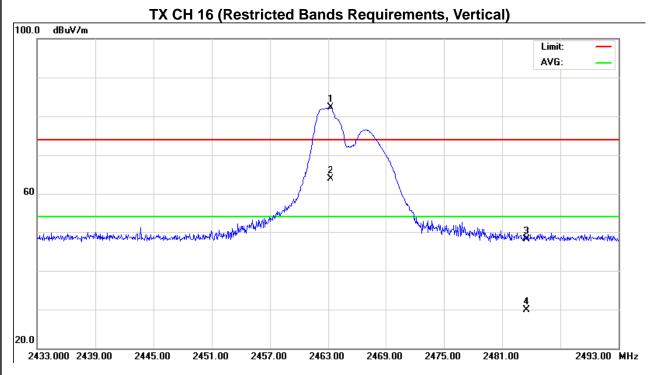
### Remark:

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (2) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (3) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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EUT:	Metallic Wireless Mouse	Model Name. :	AXM-912P					
Temperature:	20 ℃	Relative Humidity:	51 %					
Pressure:	1008 hPa	1008 hPa Test Power : DC 3.0V						
Test Mode :	TX CH 2418MHz/2463MHz (Horizontal)							
Note:	<ul> <li>The emission of the carrier rad AV) as following:</li> <li>1. The transmitter was then conto transmit at the lowest chameasured at 2310-2390 MH.</li> <li>2. The transmitter was configurationsmit at the highest channessured at 2483.5-2500 MH.</li> </ul>	nfigured with the wor nnel (CH01). Then th z. red with the worst ca nel (CH16). Then the	st case antenna and setup ne field strength was se antenna and setup to					

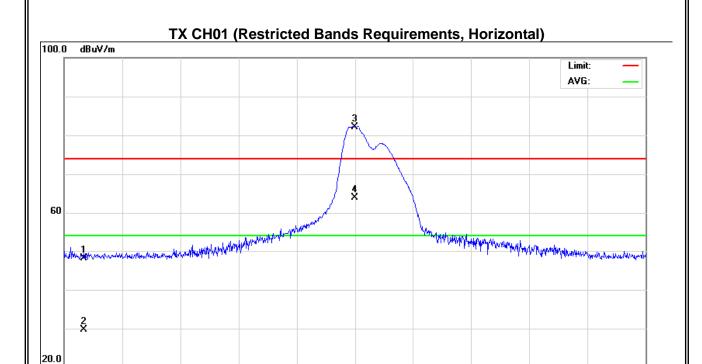
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	16.73	-1.58	31.38	48.11	29.80	74.00	54.00	CH01
2483.50	Н	19.71	1.40	31.33	51.04	32.73	74.00	54.00	CH16

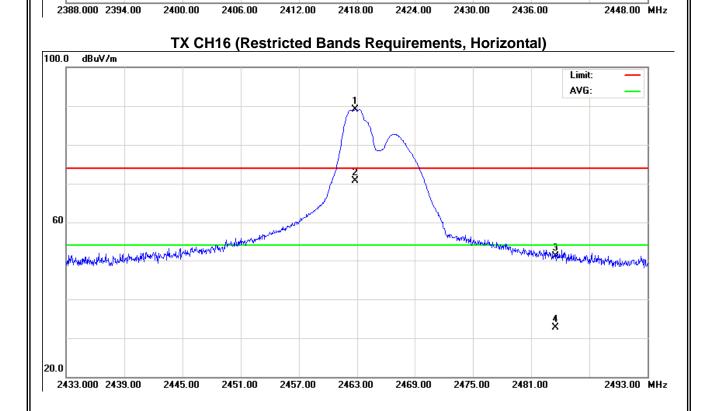
### Remark:

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission  $\circ$
- (2) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (3) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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### 5. BANDWIDTH TEST

### 5.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 05, 2011

Remark: "N/A" denotes No Model Name., Serial No. or No Calibration specified.

### 5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = 2.5 ms.

### 5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

### 5.5 EUT OPERATION CONDITIONS

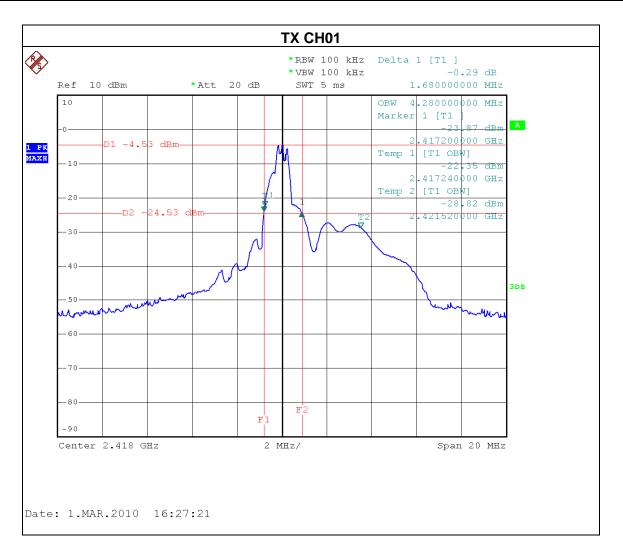
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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### 5.6 TEST RESULTS

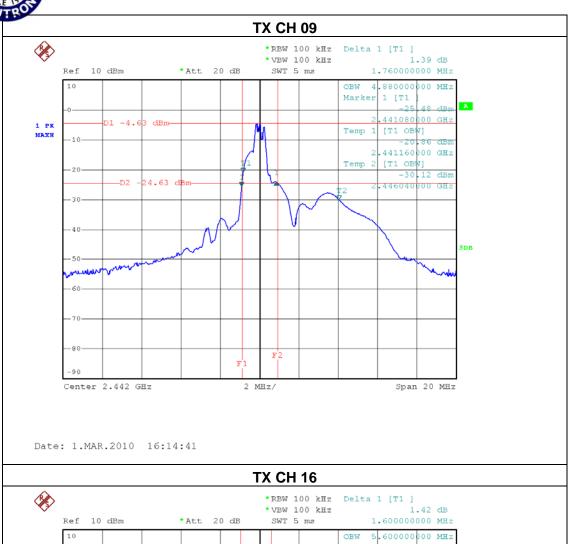
EUT:	Metallic Wireless Mouse	Model Name. :	AXM-912P
Temperature:	<b>20</b> ℃	Relative Humidity:	45 %
Pressure:	1008 hPa	Test Power :	DC 3.0V
Test Mode :	TX CH 01/09/16		

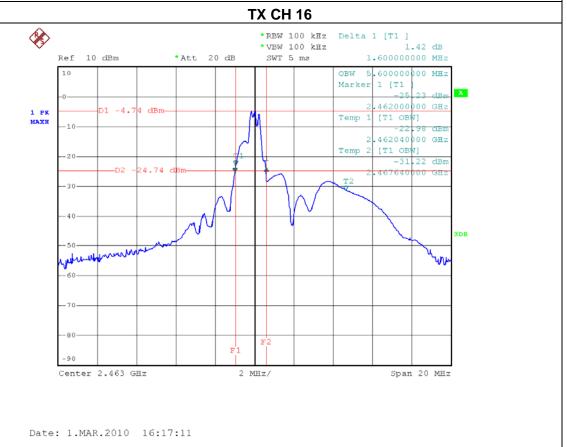
Test Channel	Frequency (MHz)	20 dBc Bandwidth (MHz)	99% occupied Bandwidth(MHz)
CH01	2418	1.68	4.28
CH09	2442	1.76	4.88
CH16	2463	1.60	5.60



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### 6. ANTENNA CONDUCTED SPURIOUS EMISSION

### 6.1 APPLIED PROCEDURES / LIMIT

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

### 6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Jan. 05, 2011

Remark: "N/A" denotes No Model Name., Serial No. or No Calibration specified.

The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	100 KHz /100 KHz for Peak

### 6.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = 10 ms.

### 6.1.3 DEVIATION FROM STANDARD

No deviation.

### 6.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

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### 6.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

### 6.1.6 TEST RESULTS

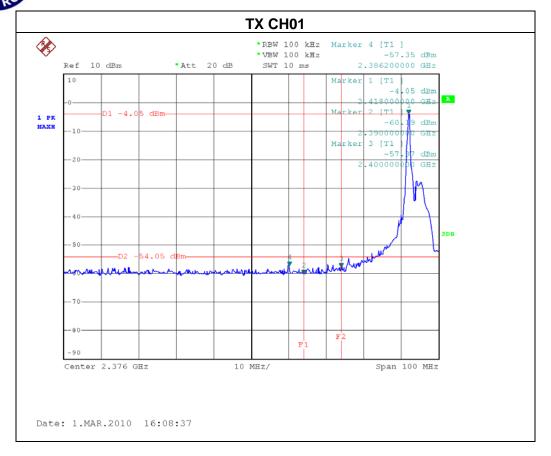
EUT:	Metallic Wireless Mouse	Model Name. :	AXM-912P
Temperature:	<b>22</b> ℃	Relative Humidity:	45 %
Pressure:	1008 hPa	Test Power :	DC 3.0V
Test Mode :	TX CH01, CH16		

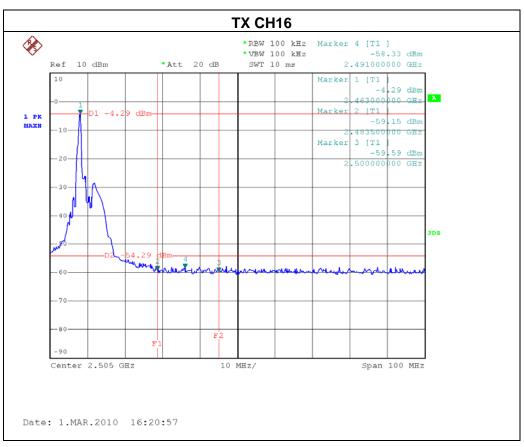
Channel of Worst Data: CH01			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band bandwidth within the frequency ban			
FREQUENCY(MHz) POWER(dBm) FREQUENCY(MHz) POWER(dBm			
2386.20 -57.35 2491.00 -58.33			
Result			

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 50dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

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### Neutron Engineering Inc.

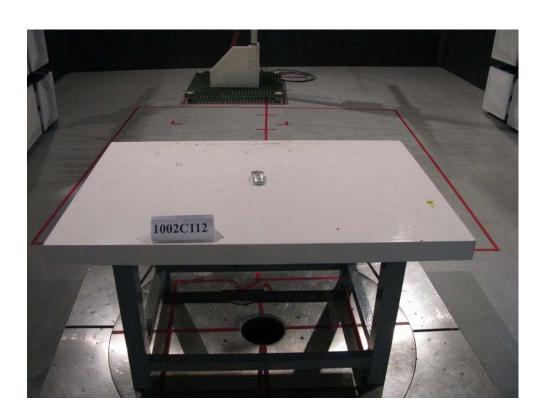




### 7. EUT TEST PHOTO

### **Radiated Measurement Photos**





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