

FCC Radio Test Report FCC ID: H8GG67424G

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

Issued Date : Mar. 20, 2008
Project No. : R0803001
Equipment : 2.4G RF Mouse

Model Name: G6-74

Applicant : A-FOUR TECH CO., LTD.

Address : 6F, No.108, Min-Chuan Rd., Hsin-Tien,

Taipei, Taiwan, R.O.C.

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Test:

Mar. 11, 2008 ~ Mar. 14, 2008

Testing Engineer

(Rush Kao)

Technical Manager

(Jeff Yang)

Authorized Signatory

Andy Chiu)

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Lab Code: 200145-0







Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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1. CERTIFICATION

Equipment: 2.4G RF Mouse

Brand Name: A4TECH Model No.: G6-74

Applicant: A-FOUR TECH CO., LTD. Data of Test: Mar. 11, 2008 ~ Mar. 14, 2008 Test Item: ENGINEERING SAMPLE

Standards: FCC Part15, Subpart C(15.249) / RSS-210: 2004/ ANCI 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-R0803001) 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).

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

	FCC Part15, Subpart C				
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

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **OS01** at the location of No.132-1, Lane 329, Sec. 2, Palain Road, Shijr City, Taipei, Taiwan.

Neutron's test firm number is 95335

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
OS-01	ANSI	30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	Η	3.94	
OS-02	ANSI	30MHz ~ 200MHz	V	2.48	
		30MHz ~ 200MHz	Η	2.16	
		200MHz ~ 1,000MHz	V	2.50	
		200MHz ~ 1,000MHz	Н	2.66	

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	2.4G RF Mouse		
Brand Name	A4TECH		
Model No.	G6-74		
OEM Brand/Model No.	N/A		
Model Difference	N/A		
	The EUT is a 2.4G RF N	Mouse.	
	Operation Frequency:	2402~2480MHz	
	Modulation Type:	GFSK	
	Number Of Channel	16CH	
	Antenna Designation:	Integral Antenna(Printed)	
Product Description	Antenna Gain(Peak)	-2.64dBi	
	Output Power:	87.54 dBuV/m (Max.)	
	Based on the application, features, or specification exhibited		
	in User's Manual, the El		
		More details of EUT technical	
	specification, please refe	er to the User's Manual.	
Channel List	Please refer to the Note	2.	
Power Source	Battery supplied		
Power Rating	DC I/P 3V (AAA Battery x 2)		
Connecting I/O Port(s)	Please refer to the User's Manual		
Products Covered	NA		

Note:

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

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2. **Channel List** Frequency Frequency Frequency Frequency Channel Channel Channel Channel (MHz) (MHz) (MHz) (MHz)

3. Table for Filed Antenna

	Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
-	1	N/A	N/A	Integral Antenna(Printed)	N/A	-2.64

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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 Test Mode	Description
Mode 1	CH01
Mode 2	CH09
Mode 3	CH16

For Radiated Test				
Final Test Mode Description				
Mode 1	CH01			
Mode 2	CH09			
Mode 3	CH16			

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EUTRON	Neutron I	<u>Engineering Inc.</u>
	HE CONFIGURATION OF SYSTEM TI	
	E-1 EUT	

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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.

Iter	n Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-	2.4G RF Mouse	A4TECH	G6-74	H8GG67424G	N/A	EUT

lt	tem	Shielded Type	Ferrite Core	Length	Note
		N/A	N/A	N/A	

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 RADIATED EMISSION MEASUREMENT

4.1.1 RADIATED EMISSION LIMITS (FCC 15.209)

requencies (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 (dBu	V/m) (at 3m)	Class B (dBuV/m) (at 3m)		
FREQUENCY (WITZ)	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (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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4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Aug. 16, 2008
2	Horn Antenna	EMCO	3115	9120D-325	Aug. 19, 2008
3	Microwave Pre_amplifier	Agilent	8449B	3008A01714	May 14, 2008
4	Microflex Cable	United Microwave	57793	1m	May 13, 2008
5	Microflex Cable	United Microwave	A30A30-5006	10M	Jul. 24, 2008

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

4.1.3 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 open area test site. 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.

4.1.4 DEVIATION FROM TEST STANDARD

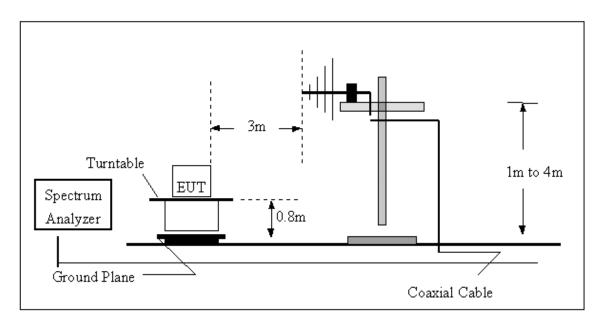
No deviation

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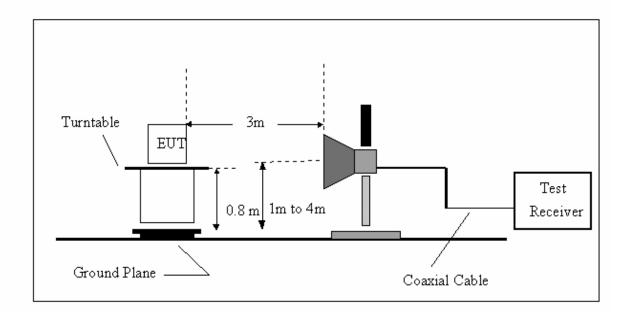


4.1.5 TEST SETUP

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



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



4.1.6 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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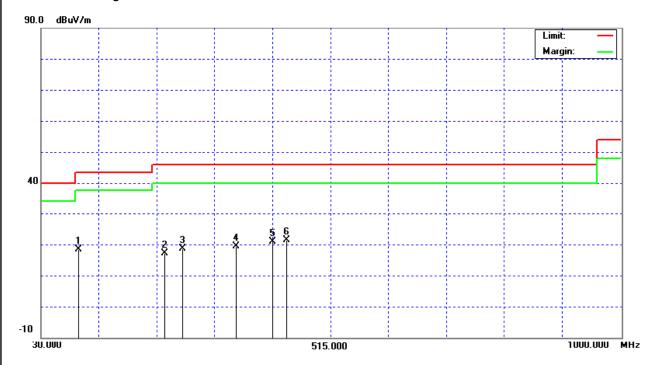
4.1.7 TEST RESULTS (Between 30 - 1000 MHz)

EUT:	2.4G RF Mouse	Model No. :	G6-74
Temperature:	22 ℃	Relative Humidity:	75%
Pressure:	1016hPa	Test Power :	DC 3V
Test Mode :	CH09		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
94.02	V	26.65	-8.36	18.29	43.50	- 25.21	
237.58	V	20.03	-2.95	17.08	46.00	- 28.92	
266.68	V	20.82	-2.22	18.60	46.00	- 27.40	
357.86	V	18.10	1.17	19.27	46.00	- 26.73	
418.00	V	16.45	4.50	20.95	46.00	- 25.05	
441.28	V	17.38	4.01	21.39	46.00	- 24.61	

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 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 \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.



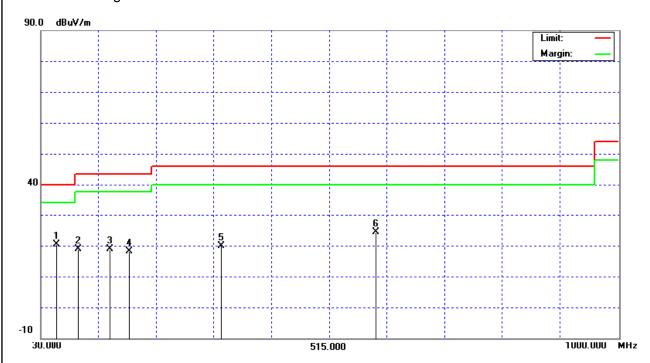
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EUT:	2.4G RF Mouse	Model No. :	G6-74
Temperature:	22 ℃	Relative Humidity:	75%
Pressure:	1016hPa	Test Power :	DC 3V
Test Mode :	CH09		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
57.16	H	24.95	-4.61	20.34	40.00	- 19.66	
94.02	H	27.12	-8.36	18.76	43.50	- 24.74	
146.40	H	21.09	-2.26	18.83	43.50	- 24.67	
179.38	Н	21.49	-3.26	18.23	43.50	- 25.27	
334.58	Н	19.63	0.14	19.77	46.00	- 26.23	
594.54	Н	17.78	6.67	24.45	46.00	- 21.55	

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m l}$. 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 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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4.1.8 TEST RESULTS (Above 1000 MHz)

EUT:	2.4G RF Mouse	Model No. :	G6-74
Temperature:	24 ℃	Relative Humidity:	54 %
Pressure:	1018 hPa	Test Power :	DC 3V
Test Mode :	CH01		

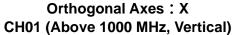
Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	mit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	20.60	11.43	32.24	52.84	43.67	74.00	54.00	X/E
2402.10	V								X/F
4804.16	V	44.69	34.34	3.39	48.08	37.73	74.00	54.00	X/H
7206.42	V	49.44	41.92	8.92	58.36	50.84	74.00	54.00	X/H

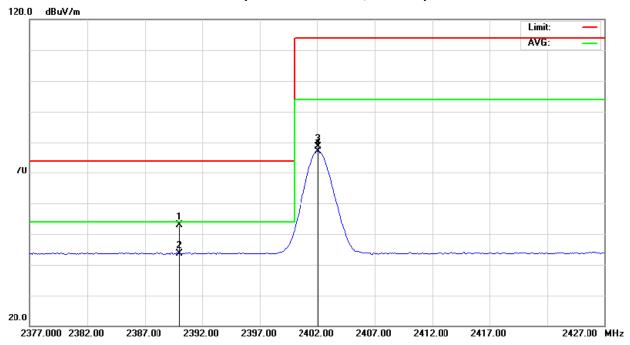
Remark:

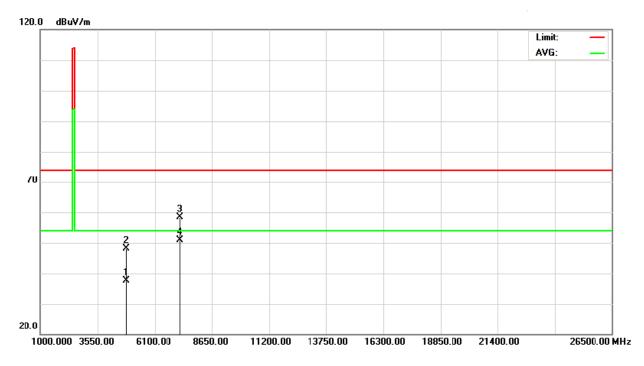
- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ${}^{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic 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 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 Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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EUT:	2.4G RF Mouse	Model No. :	G6-74
Temperature:	24 ℃	Relative Humidity:	54 %
Pressure:	1018 hPa	Test Power :	DC 3V
Test Mode :	CH01		

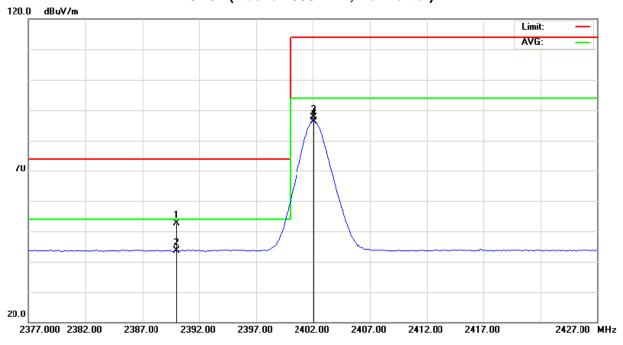
Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	mit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	20.48	11.28	32.24	52.72	43.52	74.00	54.00	X/E
2402.00	Н								X/F
4804.20	Н	45.49	36.09	3.39	48.88	39.48	74.00	54.00	X/H
7206.48	Н	48.84	41.08	8.92	57.76	50.00	74.00	54.00	X/H

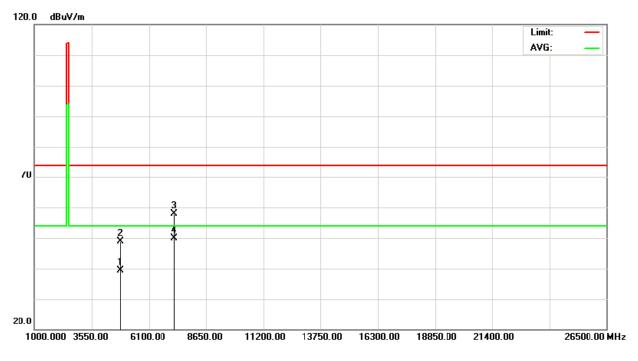
- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of 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 Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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EUT:	2.4G RF Mouse	Model No. :	G6-74
Temperature:	24 °C	Relative Humidity:	54 %
Pressure:	1018 hPa	Test Power :	DC 3V
Test Mode :	CH09		

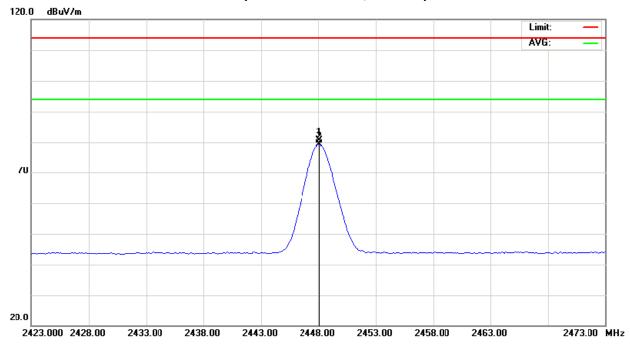
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2448.10	V								X/F
4896.20	V	44.58	34.98	3.75	48.33	38.73	74.00	54.00	X/H
7344.48	V	49.20	40.88	9.24	58.44	50.12	74.00	54.00	X/H

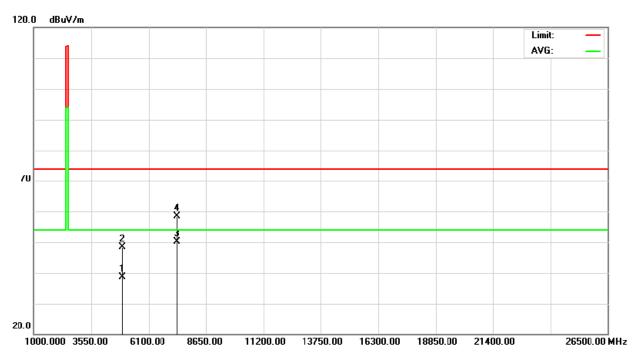
- (1) All readings are Peak unless otherwise stated QP in column of [Note]. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" 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 Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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EUT:	2.4G RF Mouse	Model No. :	G6-74
Temperature:	24 °C	Relative Humidity:	54 %
Pressure:	1018 hPa	Test Power :	DC 3V
Test Mode :	CH09		

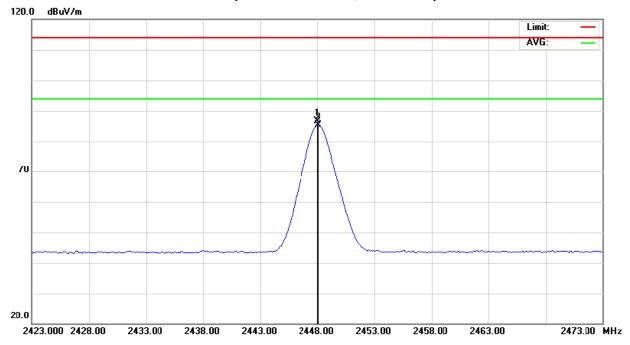
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2448.10	Н								X/F
4896.20	Н	45.39	35.72	3.75	49.14	39.47	74.00	54.00	X/H
7344.44	Н	50.61	42.76	9.24	59.85	52.00	74.00	54.00	X/H

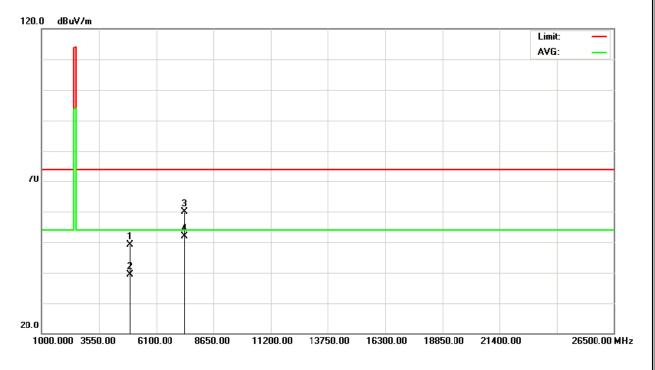
- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental 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 Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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Orthogonal Axes: X CH09 (Above 1000 MHz, Horizontal)





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EUT:	2.4G RF Mouse	Model No. :	G6-74
Temperature:	24 °C	Relative Humidity:	54 %
Pressure:	1018 hPa	Test Power :	DC 3V
Test Mode :	CH16		

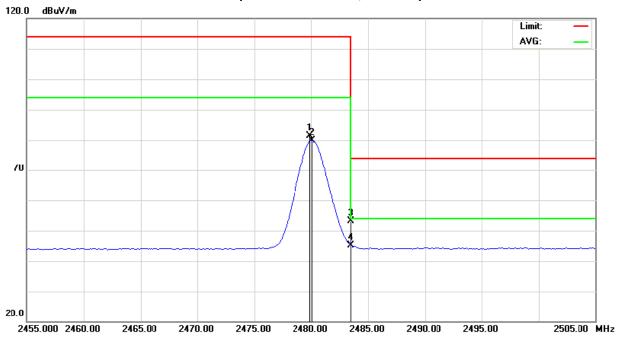
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.00	٧								X/F
2483.50	V	20.52	12.60	32.59	53.11	45.19	74.00	54.00	X/E
4960.24	V	45.47	36.43	4.01	49.48	40.44	74.00	54.00	X/H
7440.28	V	49.71	41.49	9.46	59.17	50.95	74.00	54.00	X/H

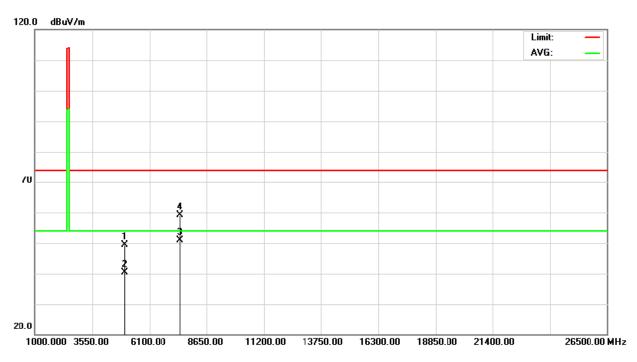
- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of 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 Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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EUT:	2.4G RF Mouse	Model No. :	G6-74
Temperature:	24 °C	Relative Humidity:	54 %
Pressure:	1018 hPa	Test Power :	DC 3V
Test Mode :	CH16		

Freq.	Ant.Pol.	Rea	ding	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)	
2480.00	Н								X/F
2483.50	Н	21.84	14.74	32.59	54.43	47.33	74.00	54.00	X/E
4960.20	Н	46.30	37.63	4.01	50.31	41.64	74.00	54.00	X/H
7440.42	Н	50.09	42.14	9.46	59.55	51.60	74.00	54.00	X/H

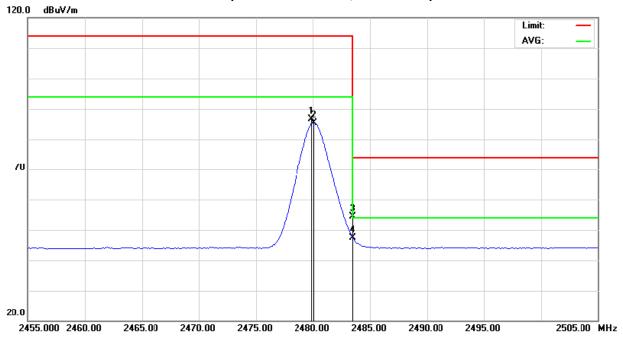
- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of 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 Axes:

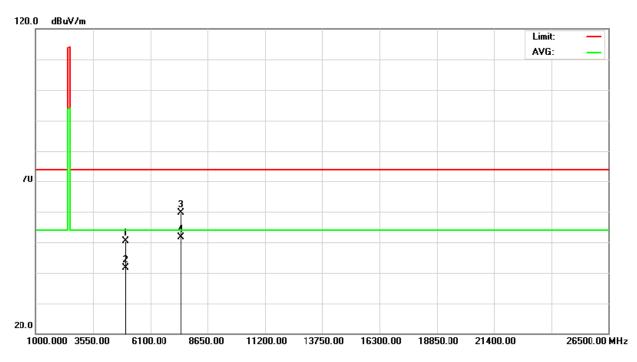
"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

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4.1.9 TEST RESULTS (2400 - 2483.5 MHz)

EUT:	2.4G RF Mouse	Model No. :	G6-74					
Temperature:	24 ℃	Relative Humidity:	54 %					
Pressure:	1009 hPa	DC 3V						
Test Mode :	TX CH 2402MHz/2448MHz/2480MHz							

Freq.	Ant.Pol.	Reading		Ant./CF	Actual FS		Lim	it3m	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	(H/V)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2402.10	V	46.29	44.93	32.28	78.57	77.21	114.00	94.00	CH01
2402.10	Н	55.26	54.15	32.28	87.54	86.43	114.00	94.00	CH01
2448.10	V	48.29	46.92	32.46	80.75	79.38	114.00	94.00	CH09
2448.10	Н	54.14	52.91	32.46	86.60	85.37	114.00	94.00	CH09
2480.10	V	48.77	47.41	32.58	81.35	79.99	114.00	94.00	CH16
2480.10	Н	54.02	52.78	32.58	86.60	85.36	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 Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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4.1.10 TEST RESULTS (Restricted Bands Requirements)

EUT:	2.4G RF Mouse	Model No. :	G6-74
Temperature:	24 °C	Relative Humidity:	54 %
Pressure:	1009 hPa	Test Power :	DC 3V
Test Mode :	TX CH 2402MHz/2480MHz(Ve	rtical)	
Note:	The emission of the carrier radial AV) as following: 1. The transmitter was then conto transmit at the lowest chain measured at 2310-2390 MH; 2. The transmitter was configur transmit at the highest channessured at 2483.5-2500 M; 3. The band edge emission plobetween carrier maximum por the emission of carrier strendum. Is 78.51dBuV/m(Peak) astrength in 2400MHz is 78.5 limit, and 77.21-42.11=35.1d	nfigured with the wornnel (CH01). Then the case of the content of	st case antenna and setup ne field strength was se antenna and setup to field strength was ge 34 shows 42.11dB delta num emission in 2400MHz. sult of channel 1 at the item //), so the maximum field n which is under 74 dBuV/m

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	20.60	11.43	32.24	52.84	43.67	74.00	54.00	CH01
2483.50	V	20.52	12.60	32.59	53.11	45.19	74.00	54.00	CH16

Remark:

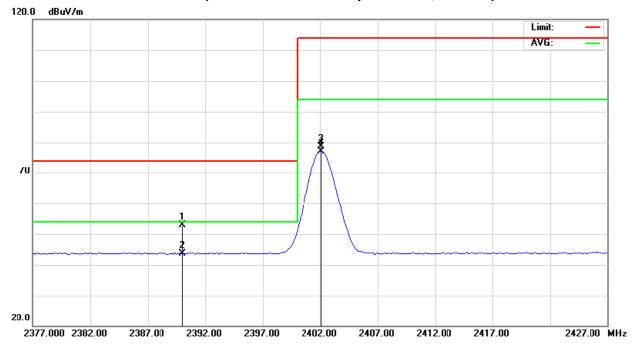
- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (2) EUT Orthogonal Axes:

"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

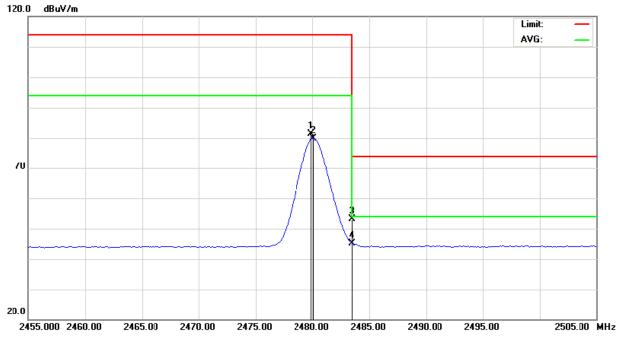
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TX CH16 (Restricted Bands Requirements, Vertical)



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EUT:	2.4G RF Mouse	Model No. :	G6-74
Temperature:		Relative Humidity:	
Pressure:	1009 hPa	Test Power :	DC 3V
Test Mode :	TX CH 2402MHz/2480MHz (Ho	orizontal)	
Note:	The emission of the carrier radia AV) as following: 1. The transmitter was then conto transmit at the lowest chain measured at 2310-2390 MHz. 2. The transmitter was configur transmit at the highest channessured at 2483.5-2500 Mms. 3. The band edge emission plobetween carrier maximum por the emission of carrier strendum 4.1. is 87.54dBuV/m(Peak) astrength in 2400MHz is 87.54dBuV/m limit, and 86.53-42.1	onfigured with the work ned (CH01). Then the case with the worst case (CH16). Then the Hz. It on the following pays ower and local maxing the list in the test researed 86.43dBuV/m(AV4-42.11=45.43dBuV/m(AV4-42.11=45.43dBuV/m)	st case antenna and setup ne field strength was se antenna and setup to field strength was ge 34 shows 42.11dB delta num emission in 2400MHz. sult of channel 1 at the item /), so the maximum field m which is under 74

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	20.48	11.28	32.24	52.72	43.52	74.00	54.00	CH01
2483.50	Н	21.84	14.74	32.59	54.43	47.33	74.00	54.00	CH16

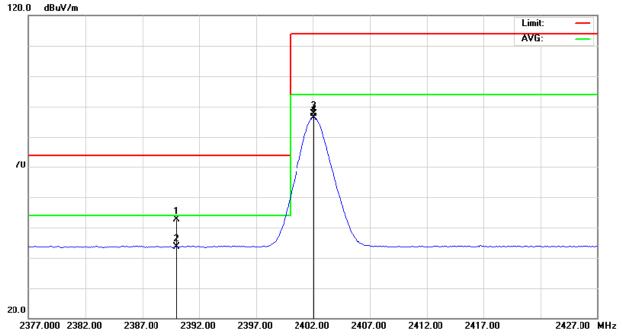
- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission $\,^{\circ}$
- (2) EUT Orthogonal Axes:

"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

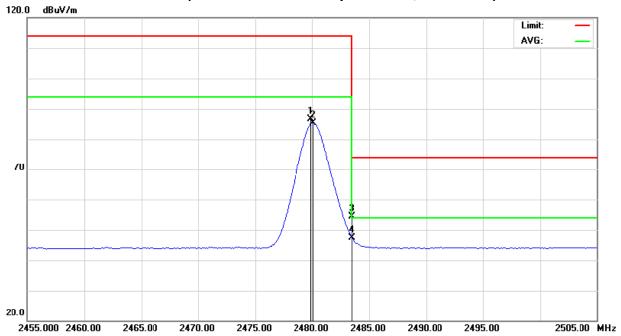
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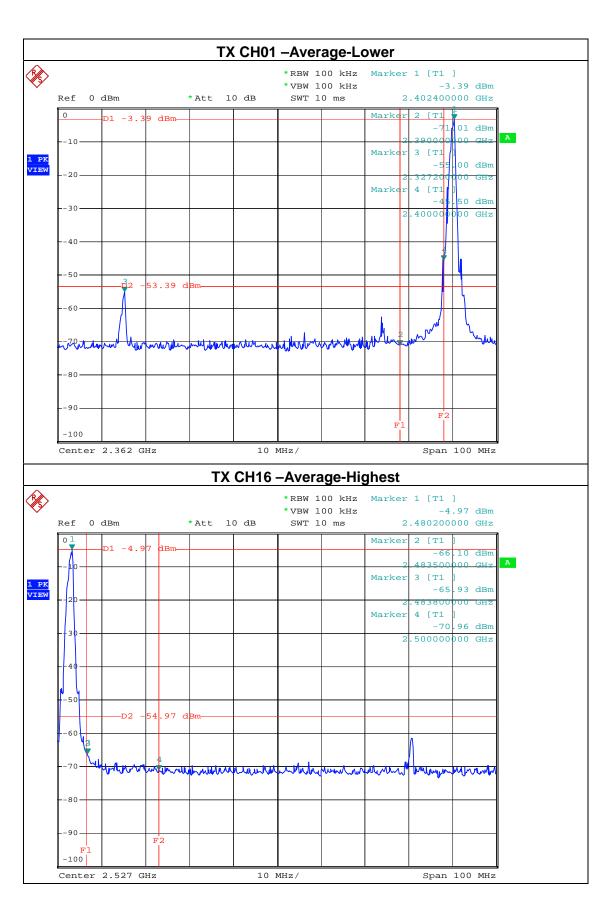


TX CH16 (Restricted Bands Requirements, Horizontal)



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5. EUT TEST PHOTO

Radiated Measurement Photos





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