

Radio Test Report FCC ID: H8GG7630

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

Issued Date : Mar. 23, 2009
Project No. : R0902006
Equipment : 2.4G RF Mouse

Model Name: G7630; G7630-1; G7630-2; G7630-3;

G7630-4

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:

Feb. 26, 2009 ~ Mar. 11, 2009

Testing Engineer

(Rush Kao)

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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.: G7630; G7630-1; G7630-2; G7630-3; G7630-4

Applicant: A-FOUR TECH CO., LTD. Date of Test: Feb. 26, 2009 ~ Mar. 11, 2009 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-R0902006) 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				

N	()	Γ⊏∙
v		

(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 **C01/OS01(FCC R.N.: 95335)** 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	2.86	
		30MHz ~ 200MHz	Η	2.56	
	200MHz ~ 1,000MHz		V	2.88	
	200MHz ~ 1,000MHz		Н	2.98	
OS-02	ANSI	30MHz ~ 200MHz	V	2.48	
		30MHz ~ 200MHz	Н	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.	G7630; G7630-1; G7630-2; G7630-3; G7630-4		
OEM Brand/Model No.	G-Cube/G7E-60N; G7E-60S; G7E-60W; G7BW-60EN; G7BW-60LL; G7BW-60SG; G7A-60SS; G7A-60SR; G7A-60SF; G7CR-60B; G7CR-60S; 57CR-60R; G7H-60H; G7H-60P; G7H-60L; G7T-60S; G7T-60BK; G7T-60G		
Model Difference	Models' differences between each other only the changes of model name which do not affect the EMI performance. Model G7630 was used for final testing and collecting test data included in this report.		
	The EUT is a 2.4G RF Mouse.		
	Operation Frequency:		
	Modulation Type:	GFSK	
	Number Of Channel	30CH	
5 1 15 11	Antenna Designation:	Printer Antenna	
Product Description	Antenna Gain(Peak)	0.68dBi	
	Output Power:	95.92dBuV/m (Max.)	
	• •	n, features, or specification exhibited	
	in User's Manual, the El		
	ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.		
Channel List	· ·		
Channel List	Please refer to the Note 2.		
Power Source	Battery supplied		
Power Rating	DC 1.5V		
Connecting I/O Port(s)	Please refer to the User	's Manual	

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							
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
	01	2405	09	2422	17	2441	25	2460	
	02	2407	10	2424	18	2443	26	2462	
	03	2409	11	2426	19	2445	27	2465	
	04	2411	12	2428	20	2447	28	2468	
	05	2413	13	2430	21	2451	29	2471	
	06	2415	14	2434	22	2454	30	2474	
	07	2417	15	2437	23	2456			
	80	2420	16	2439	24	2458			

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printer Antenna	N/A	0.68

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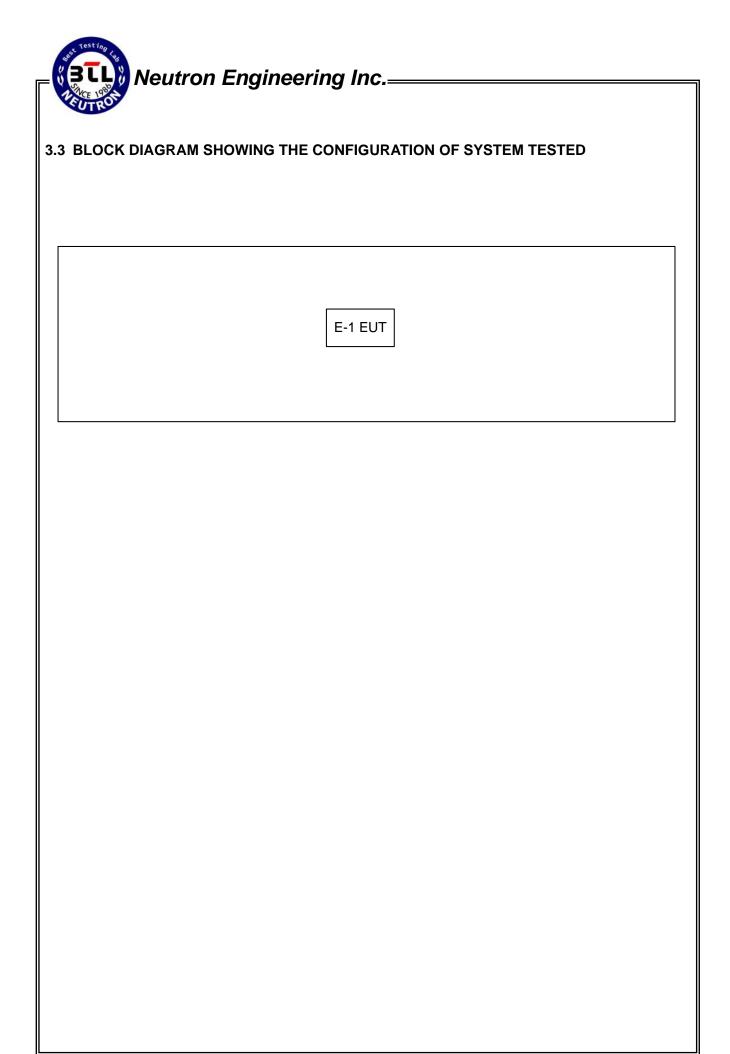
3.2 DESCRIPTION OF TEST MODES

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	CH15
Mode 3	CH30

For Radiated Test					
Final Test Mode	Description				
Mode 1	CH01				
Mode 2	CH15				
Mode 3	CH30				

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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	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	2.4G RF Mouse	A4Tech	G7630	H8GG7630	N/A	EUT

Item	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)		
PREQUENCT (MHZ)	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	Log-Bicon Antenna	Schwarzbeck	VULB 9160	3176	Jul. 24, 2009
2	Test Cable	N/A	10M_OS01	N/A	Oct. 20, 2009
3	Test Cable	N/A	OS01-1/-2	N/A	Oct. 08, 2009
4	Pre-Amplifier	Anritsu	MH648A(OS01)	M09961	Dec. 29, 2009
5	Spectrum Analyzer	HP	8591EM 3536A006810 10		Mar. 13, 2009
6	EMI Measuring Receiver	SHCAFFNER	SCR 3501	408	Nov. 24.2009
7	Spectrum Analyzer	R&S	FSP-30	100854	Apr. 14, 2009
8	Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-546	May 27, 2009
9	Microwave Pre_amplifier	Agilent	8449B	3008A02331	Jan. 19, 2010
10	Microflex Cable	NA	NA	1m	Sep. 15, 2009
11	Microflex Cable	NA	NA	10M	Feb. 19, 2010

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

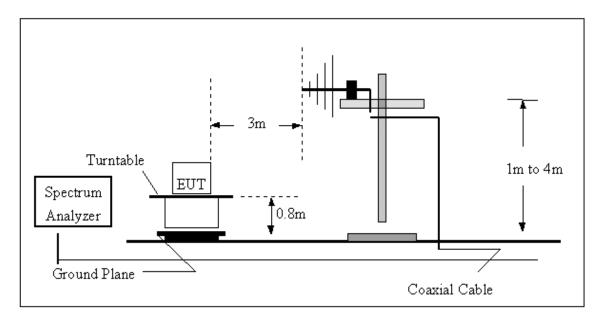
No deviation

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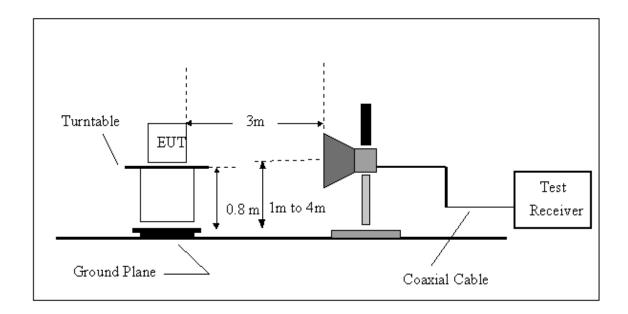


4.1.5 TEST SETUP

(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 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 operation condition was tested and used to collect the included data.

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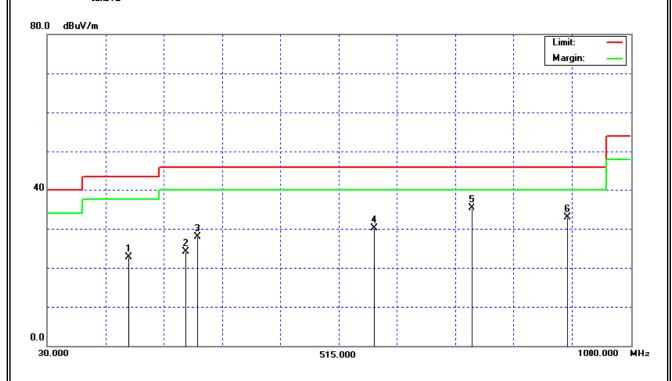
4.1.7 TEST RESULTS-BETWEEN 30MHz - 1000MHz

EUT:	2.4G RF Mouse	Model No. :	G7630
Temperature:	14°C	Relative Humidity:	81%
Test Power :	DC 1.5V		
Test Mode :	CH15		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOIC
165.80	V	36.23	-13.58	22.65	43.50	- 20.85	
260.53	V	37.59	-13.40	24.19	46.00	- 21.81	
280.20	V	40.21	-12.26	27.95	46.00	- 18.05	
575.13	V	33.66	-3.64	30.02	46.00	- 15.98	
736.12	V	35.94	-0.68	35.26	46.00	- 10.74	
893.91	V	30.46	2.40	32.86	46.00	- 13.14	

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measure-ment didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz o
- (4) If the peak scan value is under the limit for more than 20dB, the signal will not show in table \circ



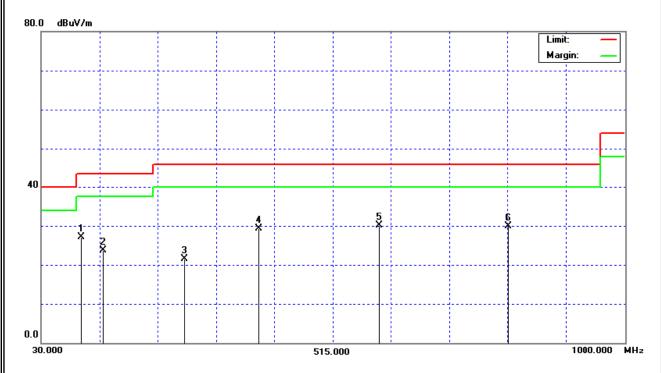
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EUT:	2.4G RF Mouse	Model No. :	G7630
Temperature:	14°C	Relative Humidity:	81%
Test Power :	DC 1.5V		
Test Mode :	CH15		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
95.96	Н	45.86	-18.77	27.09	43.50	- 16.41	
132.78	Н	38.52	-14.77	23.75	43.50	- 19.75	
266.73	Н	34.68	-13.11	21.57	46.00	- 24.43	
392.68	Η	37.39	-8.17	29.22	46.00	- 16.78	
592.55	Н	33.41	-3.25	30.16	46.00	- 15.84	
807.91	Н	28.99	0.96	29.95	46.00	- 16.05	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz $^{\circ}$
- (2) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measure-ment didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz o
- (4) If the peak scan value is under the limit for more than 20dB, the signal will not show in table \circ



4.1.8 TEST RESULTS-ABOVE 1000MHz

EUT:	2.4G RF Mouse	Model No. :	G7630
Temperature:	14°C	Relative Humidity:	81%
Test Power :	DC 1.5V		
Test Mode :	CH01		

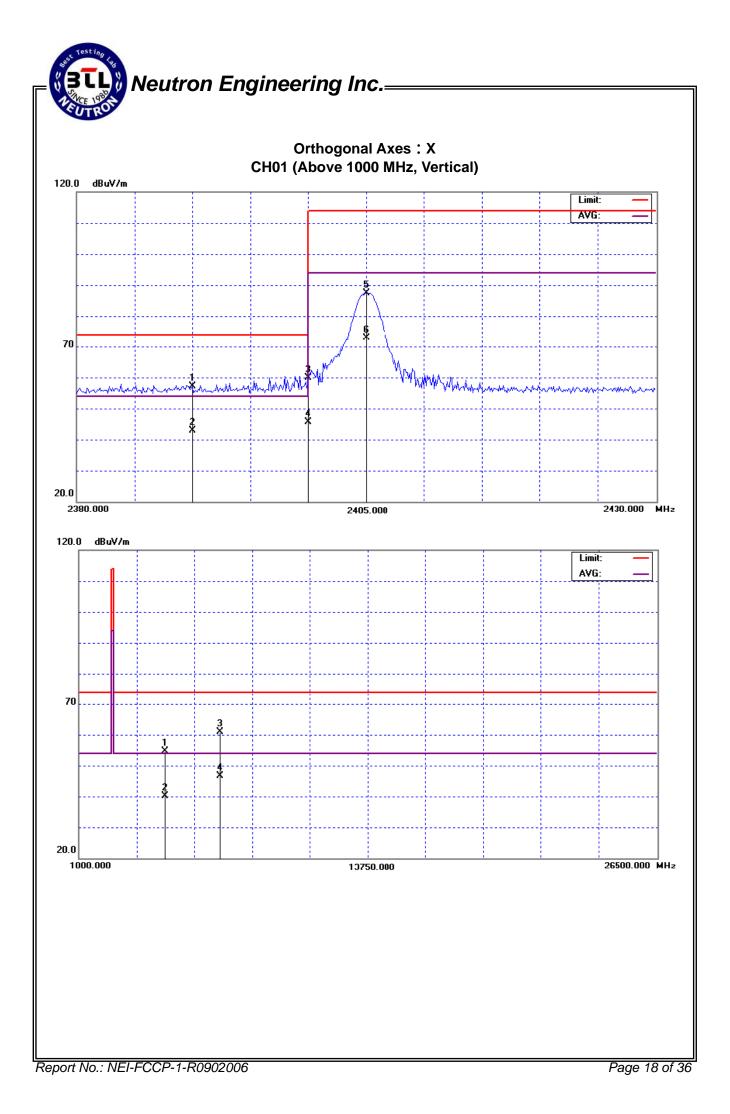
Freq.	Ant.Pol.	Rea	ding	Ant./CF	nt./CF Act.		Liı		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	24.60	10.62	32.57	57.17	43.19	74.00	54.00	X/E
2400.00	V	27.20	13.22	32.63	59.83	45.85	74.00	54.00	X/E
2405.00	V								X/F
4809.66	V	49.99	36.01	4.52	54.51	40.53	74.00	54.00	X/H
7214.58	V	49.84	35.86	11.06	60.90	46.92	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 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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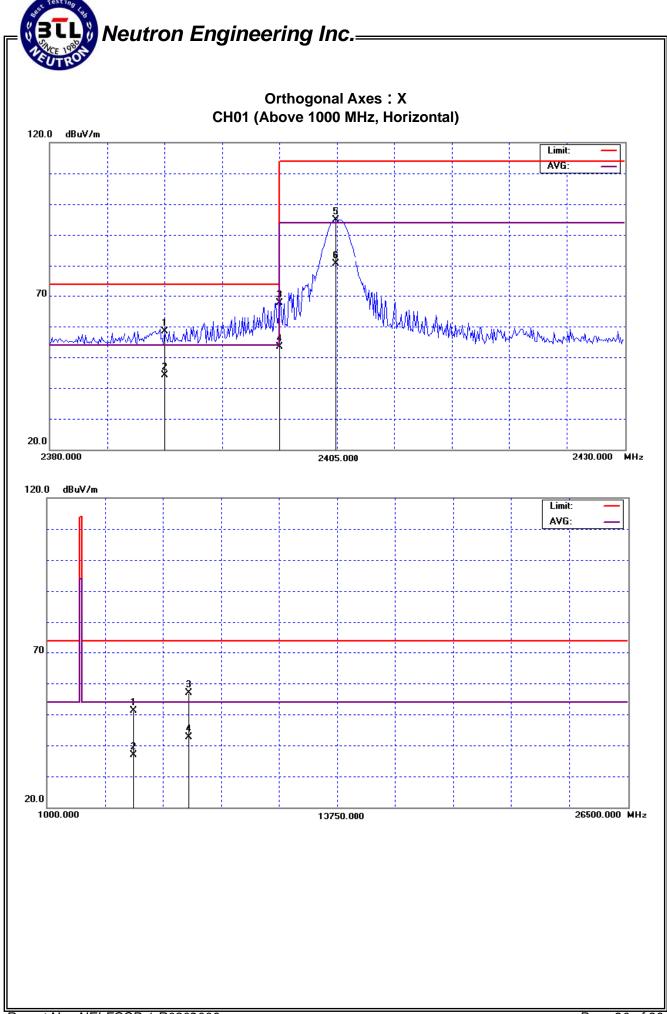
EUT:	2.4G RF Mouse	Model No. :	G7630
Temperature:	14°C	Relative Humidity:	81%
Test Power :	DC 1.5V		
Test Mode :	CH01		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	it./CF Act.		Liı		
		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	25.81	11.83	32.57	58.38	44.40	74.00	54.00	X/E
2400.00	Н	35.04	21.06	32.63	67.67	53.69	74.00	54.00	X/E
2404.90	Н								X/F
4809.96	Н	46.54	32.56	4.52	51.06	37.08	74.00	54.00	X/H
7215.04	Н	45.89	31.91	11.06	56.95	42.97	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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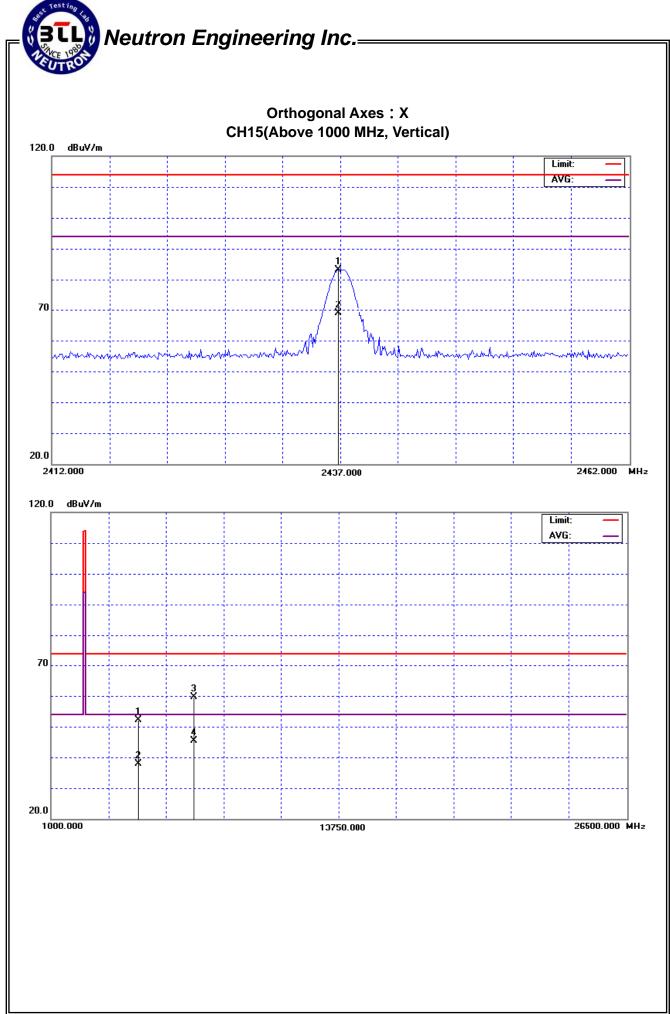


EUT:	2.4G RF Mouse	Model No. :	G7630
Temperature:	14°C	Relative Humidity:	81%
Test Power :	DC 1.5V		
Test Mode :	CH15		

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)	
2436.80	٧								X/F
4874.24	V	47.48	33.50	4.73	52.21	38.23	74.00	54.00	X/H
7311.02	V	48.31	34.33	11.36	59.67	45.69	74.00	54.00	X/H

- (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 of "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
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 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand

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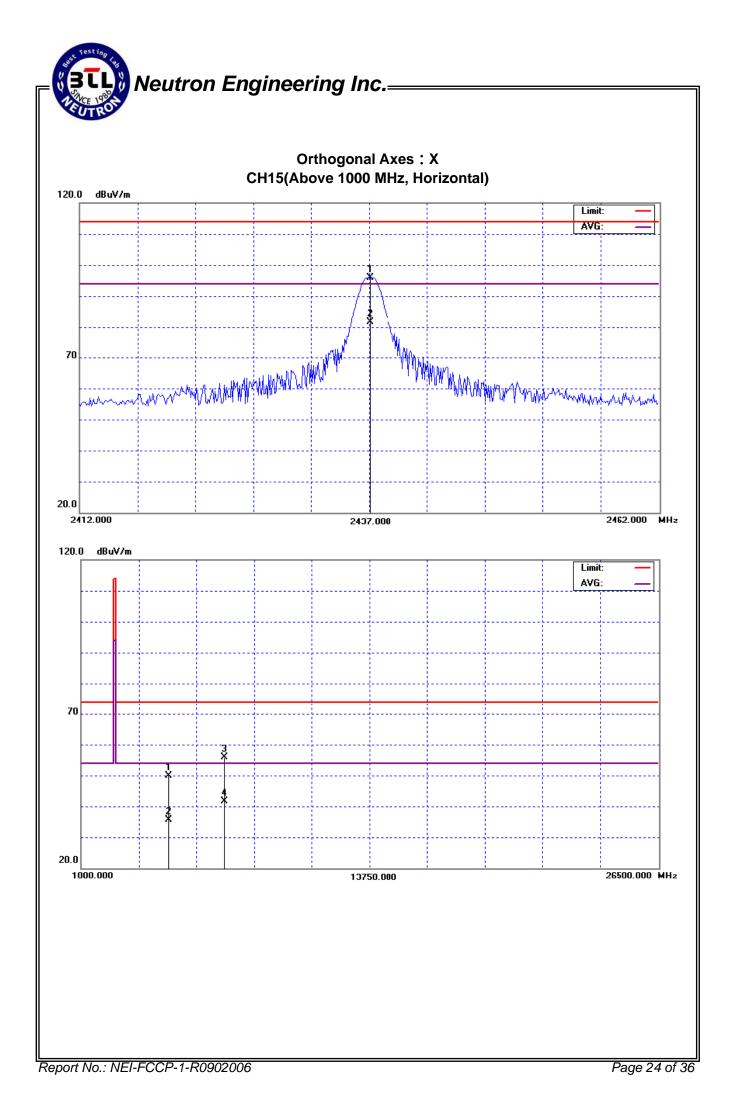


EUT:	2.4G RF Mouse	Model No. :	G7630
Temperature:	14°C	Relative Humidity:	81%
Test Power :	DC 1.5V		
Test Mode :	CH15		

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)	
2437.05	Н								X/F
4873.90	Н	45.10	31.12	4.73	49.83	35.85	74.00	54.00	X/H
7310.96	Н	44.51	30.53	11.36	55.87	41.89	74.00	54.00	X/H

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

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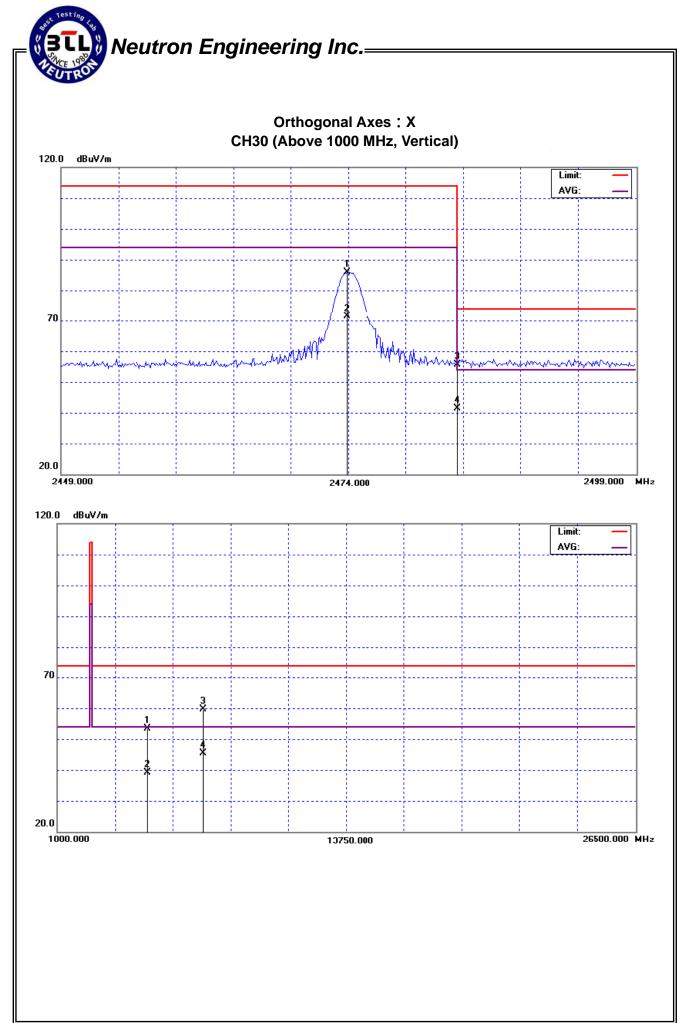
EUT:	2.4G RF Mouse	Model No. :	G7630
Temperature:	14°C	Relative Humidity:	81%
Test Power :	DC 1.5V		
Test Mode :	CH30		

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)	
2473.90	٧								X/F
2483.50	V	22.47	8.49	33.10	55.57	41.59	74.00	54.00	X/E
4947.60	V	48.43	34.45	4.97	53.40	39.42	74.00	54.00	X/H
7422.09	V	48.03	34.05	11.71	59.74	45.76	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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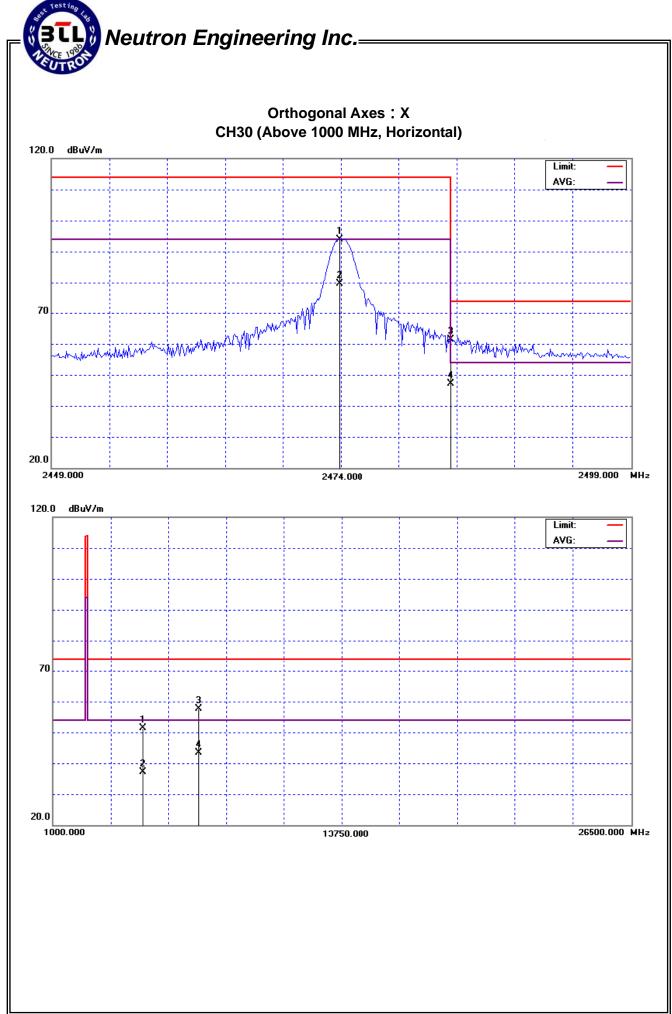
EUT:	2.4G RF Mouse	Model No. :	G7630
Temperature:	14°C	Relative Humidity:	81%
Test Power :	DC 1.5V		
Test Mode :	CH30		

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)	
2473.90	Н								X/F
2483.50	Н	28.32	14.34	33.10	61.42	47.44	74.00	54.00	X/E
4948.03	Н	46.38	32.40	4.97	51.35	37.37	74.00	54.00	X/H
7422.14	Н	45.87	31.89	11.71	57.58	43.60	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 "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-2405MHz - 2474MHz

EUT:	2.4G RF Mouse	Model No. :	G7630				
Temperature:	14°C	Relative Humidity:	81%				
Test Power:	DC 1.5V						
Test Mode :	TX CH 2405MHz/2437MHz/24	X CH 2405MHz/2437MHz/2474MHz					

Freq.	Ant.Pol.	Reading		Ant./CF	Actua	Actual FS		it3m	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	(H/V)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2405.00	V	54.64	40.66	32.66	87.30	73.32	114.00	94.00	CH01
2404.90	Н	62.25	48.27	32.66	94.91	80.93	114.00	94.00	CH01
2436.80	V	50.30	36.32	32.84	83.14	69.16	114.00	94.00	CH15
2437.05	Н	63.08	49.10	32.84	95.92	81.94	114.00	94.00	CH15
2473.90	V	52.74	38.76	33.04	85.78	71.80	114.00	94.00	CH30
2473.90	Н	60.87	46.89	33.04	93.91	79.93	114.00	94.00	CH30

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) 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. :	G7630					
Temperature:	14°C	Relative Humidity:	81%					
Test Power :	DC 1.5V							
Test Mode :	TX CH 2405MHz/2474MHz(Vertical)							
Note:	 The emission of the carrier rad AV) as following: 1. The transmitter was then conto transmit at the lowest chameasured at 2310-2390 MH. 2. The transmitter was configurationsmit at the highest chanrameasured at 2483.5-2500 M 	nfigured with the wor nnel (CH01). Then th z. red with the worst can nel (CH30). Then the	st case antenna and setup ne field strength was se antenna and setup to					

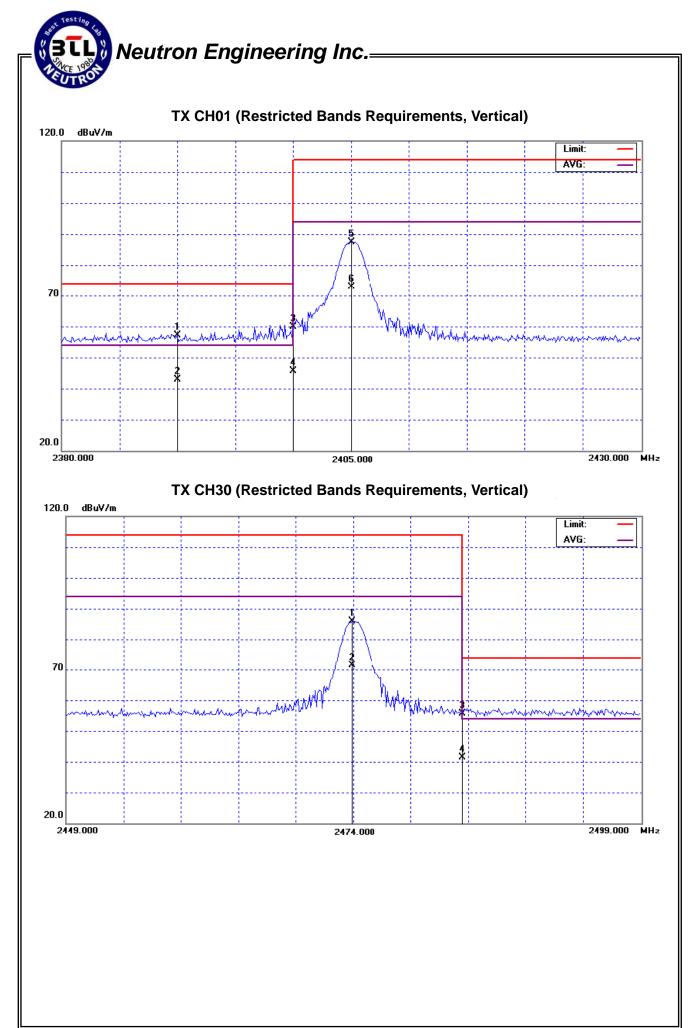
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	24.60	10.62	32.57	57.17	43.19	74.00	54.00	CH01
2483.50	V	22.47	8.49	33.10	55.57	41.59	74.00	54.00	CH30

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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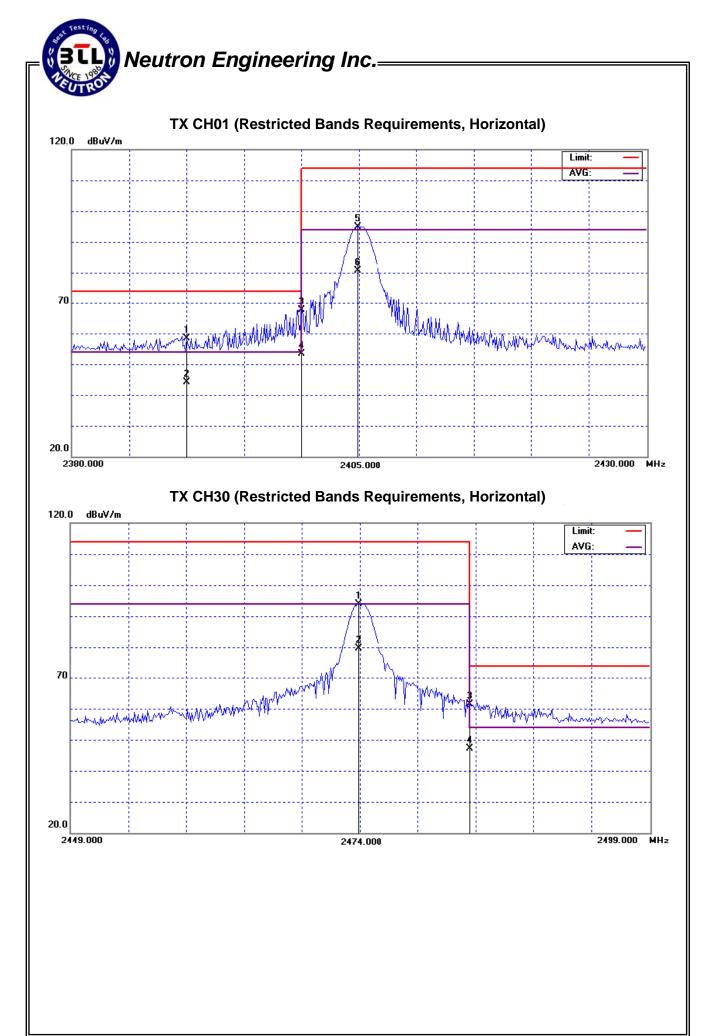
EUT:	2.4G RF Mouse	Model No. :	G7630				
Temperature:	14°C	Relative Humidity:	81%				
Test Power :	DC 1.5V						
Test Mode :	TX CH 2405MHz/2474MHz (Horizontal)						
Note:	 The emission of the carrier radiated field strength is measured for (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH30). Then the field strength was measured at 2483.5-2500 MHz. 						

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	25.81	11.83	32.57	58.38	44.40	74.00	54.00	CH01
2483.50	Н	28.32	14.34	33.10	61.42	47.44	74.00	54.00	CH30

- (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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