



Neutron Engineering Inc.

# FCC Test Report

Issued Date : Jan. 02, 2009  
Project No. : 0812C195  
Equipment : Wireless Laser Mouse  
Model Name : L212

Applicant : Areson Technology Corporation  
Address : 11F, NO. 646, SEC. 5, CHONGSIN RD., SAN  
CHONG 241, TAIPEI COUNTY, TAIWAN (R.O.C.)

Tested by:  
Neutron Engineering Inc. EMC Laboratory  
Date of Test:  
Dec. 29, 2008 ~ Jan. 02, 2009

Testing Engineer: Jeff Yang  
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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 : Wireless Laser Mouse  
Brand Name : N/A  
Model Name : L212  
Applicant : Areson Technology Corporation  
Date of Test : Dec. 29, 2008 ~ Jan. 02, 2009  
Standards : FCC Part 15, Subpart B, Class B  
              CISPR 22: 1997+A1: 2000, Class B  
              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-FCCE-1-0812C195) 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 for the Mouse/ Dongle part of the product.**



## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part15, Subpart B CISPR 22:1997+A1: 2000	Conducted Emission	Class B	PASS	
	Radiated Emission	Class B	PASS	

**NOTE:**

(1) " N/A" denotes test is not applicable in this Test Report.



**2.1 TEST FACILITY**

The test facilities used to collect the test data in this report is **C01/OS02** at the location of No.132-1, Lane 329, Sec. 2, Palian Road, Shijr City, Taipei, Taiwan.

**2.2 MEASUREMENT UNCERTAINTY**

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

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	H	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	
OS-02	ANSI	30MHz ~ 200MHz	V	2.48	
		30MHz ~ 200MHz	H	2.16	
		200MHz ~ 1,000MHz	V	2.50	
		200MHz ~ 1,000MHz	H	2.66	



**3. GENERAL INFORMATION**

**3.1 GENERAL DESCRIPTION OF EUT**

Equipment	Wireless Laser Mouse	
Brand Name	N/A	
Model Name	L212	
Model Difference	N/A	
OEM Model Name	N/A	
OEM Brand	N/A	
Product Description	The EUT is a Wireless Laser Mouse.	
	Product Type	Low Power Communication Device
	Operation Frequency:	2402~2479 MHz
	Modulation Type:	GFSK
	Number Of Channel	16CH
	Antenna Designation:	Printed antenna
	Antenna Gain(Peak)	1.98 dBi (Mouse)
	Output Power:	76.97 dBuV/m (AV Max.)
Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.		
Power Source	DC Voltage Supplied from Host system (Dongle ) DC Voltage supplied from 2*AAA size Battery (Mouse )	
Power Rating	I/P AC 120V/60Hz O/P DC 5V (Dongle ) DC 3.0V (Mouse)	
Connecting I/O Port(s)	Please refer to the User's Manual	
Products Covered	N/A	
EUT Modification(s)	N/A	

**Note:**

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



2.

Frequency Band	Channel No.	Frequency
2400~2483.5MHz	1	2402 MHz
	2	2405 MHz
	3	2408 MHz
	4	2411 MHz
	5	2425 MHz
	6	2432 MHz
	7	2435 MHz
	8	2439 MHz
	9	2447 MHz
	10	2450 MHz
	11	2462 MHz
	12	2465 MHz
	13	2468 MHz
	14	2471 MHz
	15	2476 MHz
	16	2479 MHz

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed Antenna	N/A	1.98

ANT1 for Mouse sample





### 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested base 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	Normal Link with Dongle

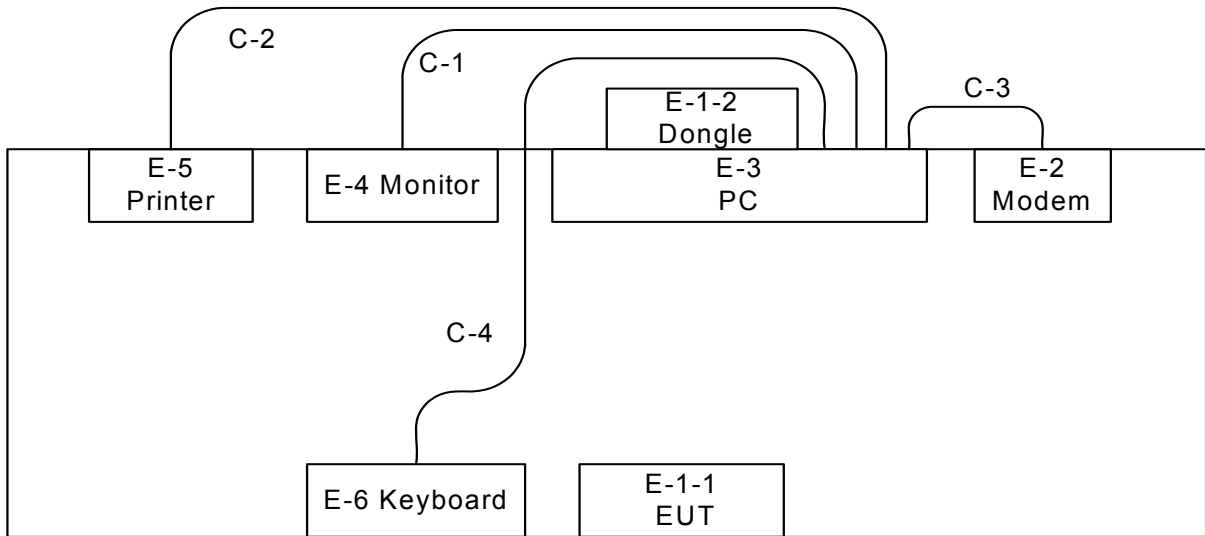
For Conducted / Radiated Test	
Final Test Mode	Description
Mode 1	Normal Link with Dongle

Note:

- (1) The Mouse used the new battery



### 3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



C-1 VGA Cable  
C-2 Paraller Cable  
C-3 Serial Cable  
C-4 USB Cable



**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-1-1	Wireless Laser Mouse	N/A	L212	P5A-CL0011	N/A	TX
E-1-2	Wireless Dongle	N/A	L212	DOC	N/A	RX
E-2	Modem	ACEEX	DM-1414V	DOC	8041708	
E-3	PC	IBM	8196-I5V	DOC	99M1136	
E-4	19" LCD Monitor	DELL	193P	GH19PH	DI19H4JXC05517A	
E-5	Printer	SII	DPU-414	DOC	1045105A	
E-6	USB K/B	DELL	M-SAW34	DOC	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	YES	1.5M	
C-2	YES	NO	1.8M	
C-3	YES	NO	1.5M	
C-4	YES	YES	1.8M	

Note:

- (1) The support equipment was authorized by Declaration of Conformity.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



**4. EMC EMISSION TEST**

**4.1 CONDUCTED EMISSION MEASUREMENT**

**4.1.1 POWER LINE CONDUCTED EMISSION (FREQUENCY RANGE 150KHZ-30MHZ)**

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

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. 24, 2009
2	LISN	EMCO	3816/2	00042990	Jan. 24, 2009
3	Pulse Limiter	Electro-Metrics	EM-7600	112644	Nov. 26, 2009
4	50Ω Terminator	N/A	N/A	N/A	May.13, 2009
5	Test Cable	N/A	C01	N/A	Nov. 26, 2009
6	EMI Test Receiver	R&S	ESCI	100082	Mar. 07, 2009

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

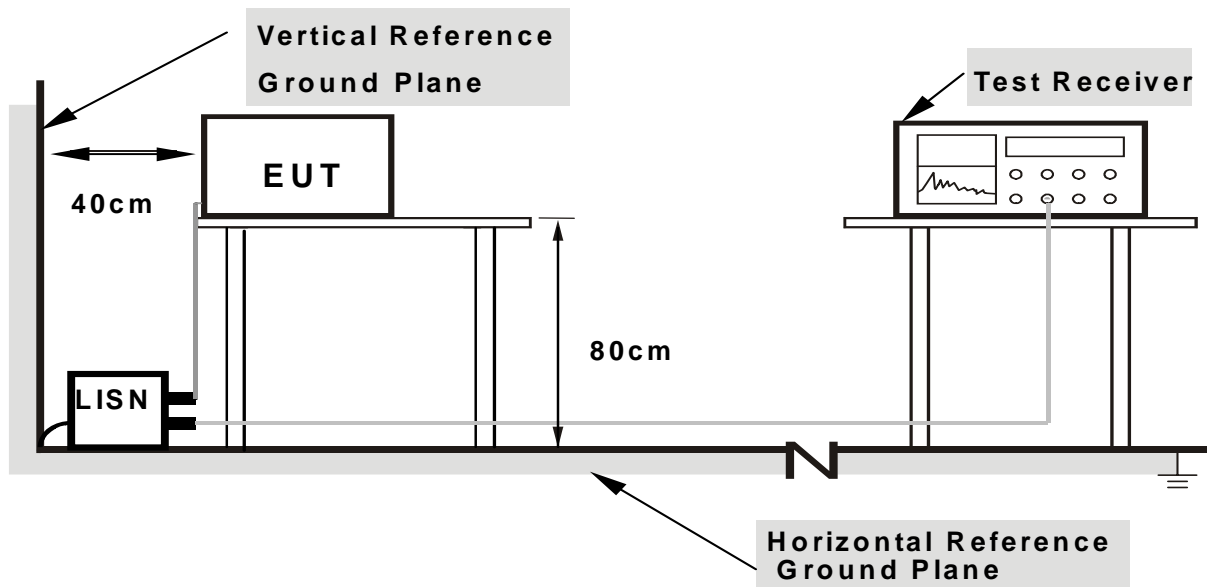
#### 4.1.3 TEST PROCEDURE

- 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.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- 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 exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. The program contained on a PC hard disk and is auto-starting on power-up. Once loaded, the program sequentially exercises each system component in turn. The sequence used is:

1. Read (write) from (to) mass storage device (Disk).
2. Send "H" pattern to video port device (Monitor).
3. Send " H " pattern to parallel port device (Printer).
4. Send " H " pattern to serial port device (Modem).
5. EUT send "H" messages to PC.
6. Repeated from 2 to 5 continuously.

As the mouse is strictly input device, no data is transmitted to (from) them during test. They are, however, continuously scanned for data input activity.



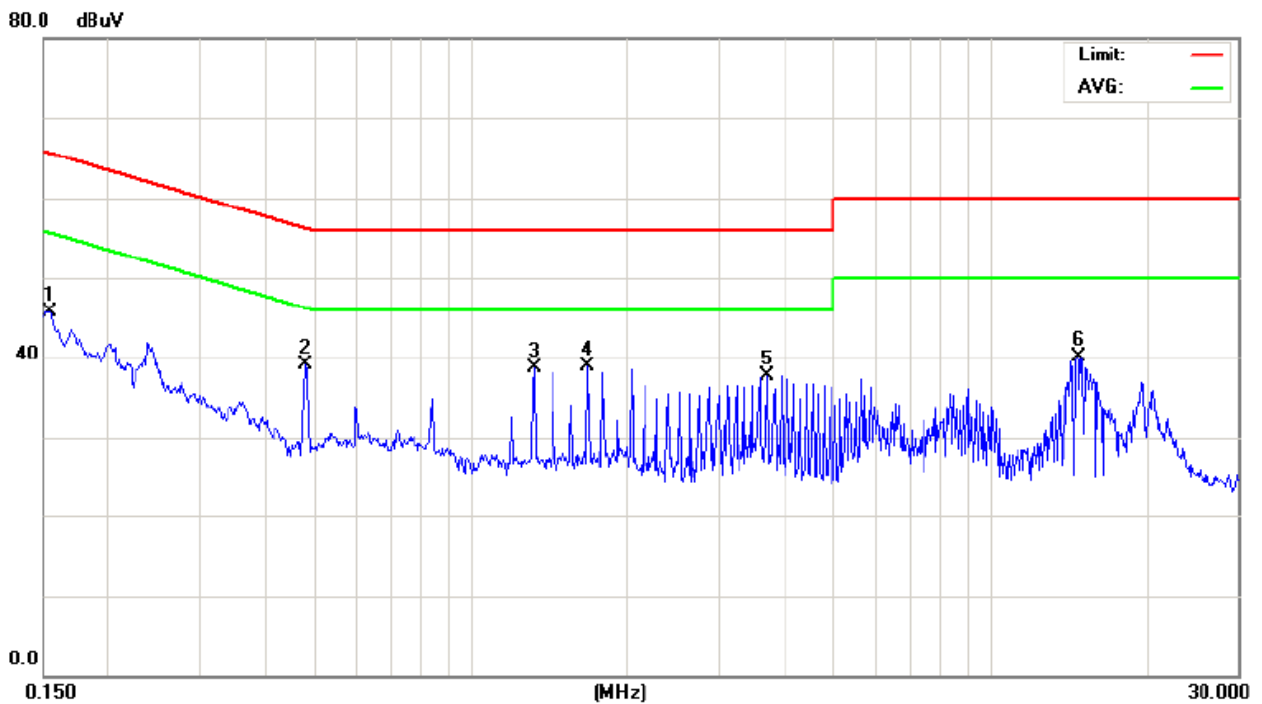
**4.1.7 TEST RESULTS**

EUT :	Wireless Laser Mouse	Model Name. :	L212
Temperature :	20 °C	Relative Humidity :	60 %
Pressure :	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	Normal Link with Dongle		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.15	Line	45.77	*	65.76	55.76	-19.99	(QP)
0.48	Line	39.03	*	56.37	46.37	-17.34	(QP)
1.32	Line	38.66	*	56.00	46.00	-17.34	(QP)
1.68	Line	38.91	*	56.00	46.00	-17.09	(QP)
3.71	Line	37.79	*	56.00	46.00	-18.21	(QP)
14.71	Line	40.10	*	60.00	50.00	-19.90	(QP)

**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. In this case, a " \* " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.



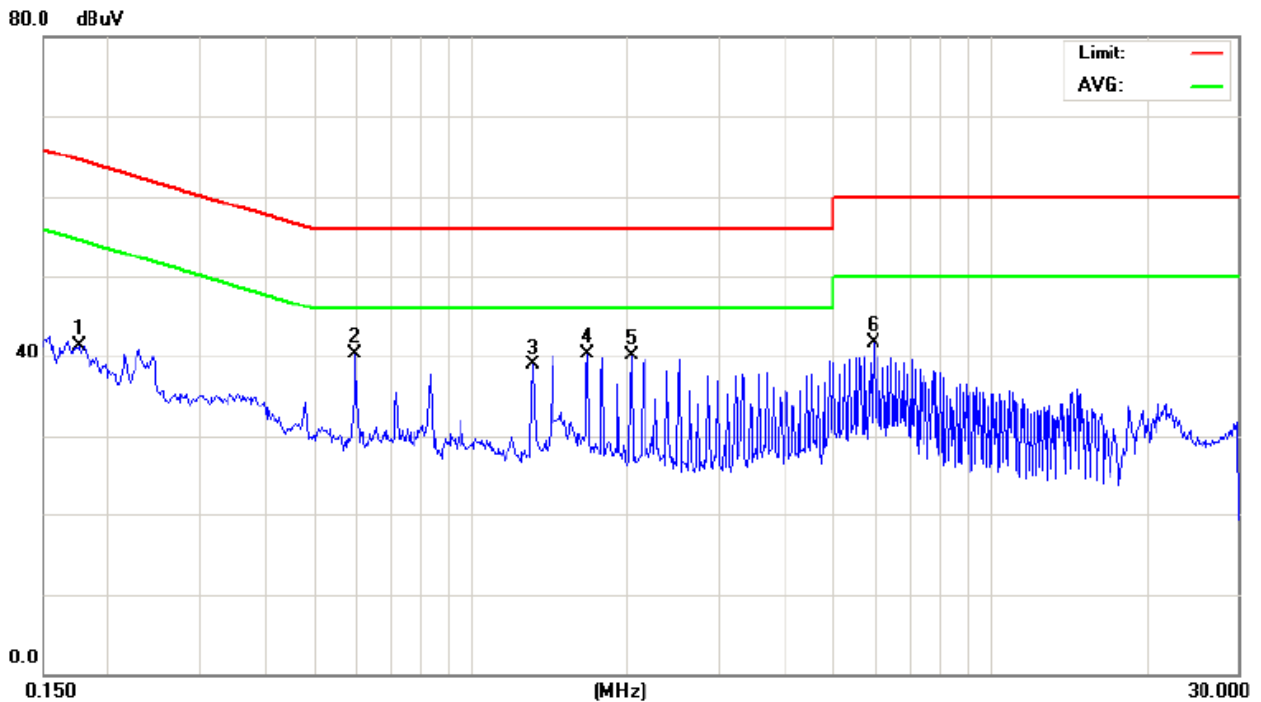


EUT :	Wireless Laser Mouse	Model Name. :	L212
Temperature :	20 °C	Relative Humidity :	60 %
Pressure :	1010 hPa	Test Power :	AC 120V/60Hz
Test Mode :	Normal Link with Dongle		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.18	Neutral	41.36	*	64.69	54.69	-23.33	(QP)
0.60	Neutral	40.23	*	56.00	46.00	-15.77	(QP)
1.32	Neutral	38.91	*	56.00	46.00	-17.09	(QP)
1.68	Neutral	40.23	*	56.00	46.00	-15.77	(QP)
2.04	Neutral	40.12	*	56.00	46.00	-15.88	(QP)
5.98	Neutral	41.65	*	60.00	50.00	-18.35	(QP)

**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. In this case, a "\*" marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.







**4.2 RADIATED EMISSION MEASUREMENT**

**4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT**

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30 – 230	40	30
230 – 1000	47	37

Notes:

- (1) The limit for radiated test was performed according to as following:  
CISPR 22/ FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

**4.2.2 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9160	3058	Mar. 19, 2009
2	Test Cable	N/A	10M_OS02	N/A	Nov. 26, 2009
3	Test Cable	N/A	OS02-1/-2/-3	N/A	Nov. 26, 2009
4	Pre-Amplifier	Anritsu	MH648A(OS02)	M10061	Nov. 26, 2009
5	EMI Test Receiver	R&S	ESCI	100082	Jan. 30, 2009
6	Antenna Mast	Chance Most	CMTB-1.5	N/A	N/A
7	Turn Table	Chance Most	CMTB-1.5	N/A	N/A

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

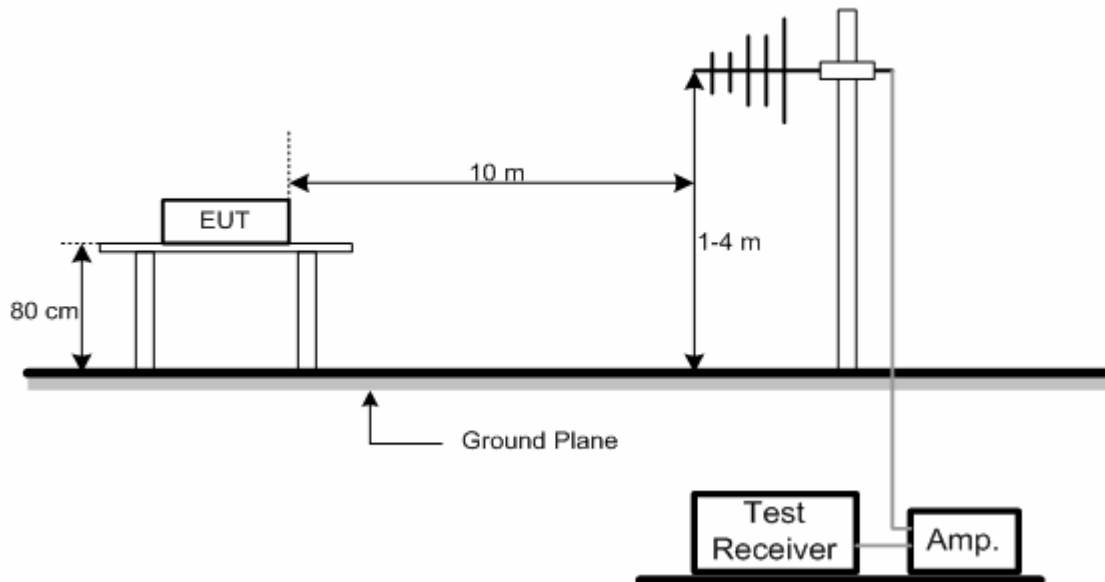
**4.2.3 TEST PROCEDURE**

- a. The measuring distance of at 10 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 10 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 radiated 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

#### 4.2.5 TEST SETUP



#### 4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.7 Unless otherwise a special operating condition is specified in the follows during the testing.



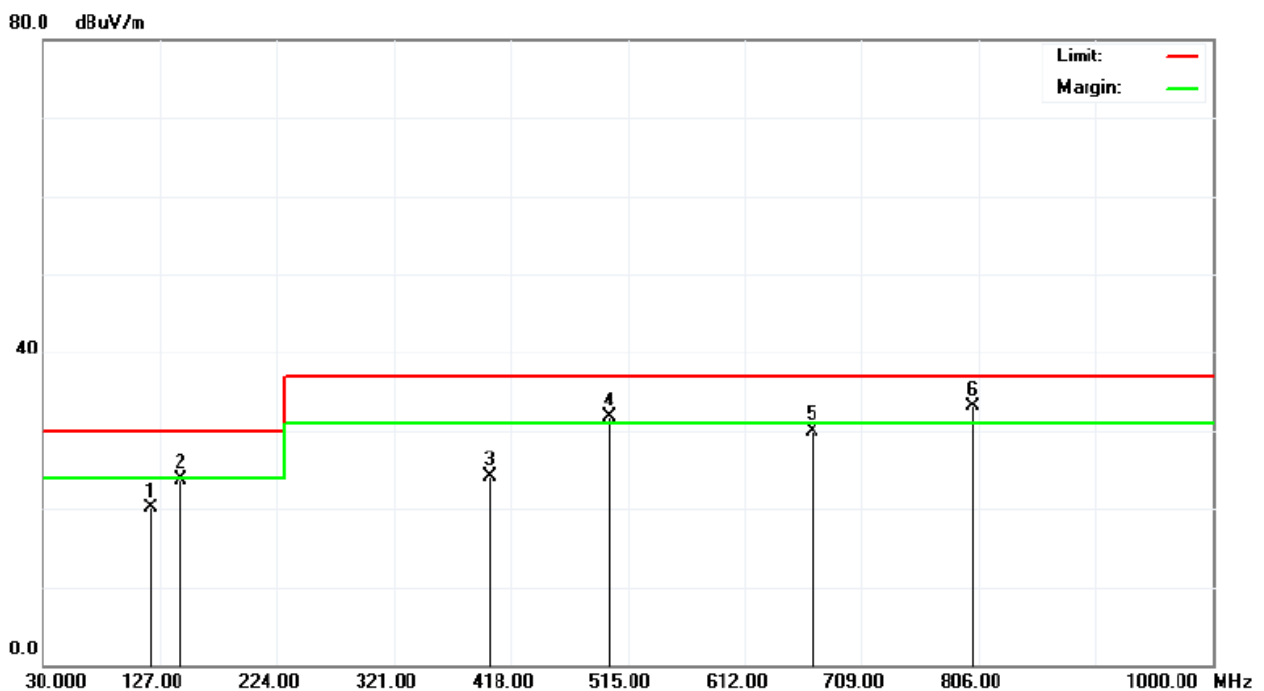
**4.2.7 TEST RESULTS (30-1000 MHZ)**

EUT :	Wireless Laser Mouse	Model Name. :	L212
Temperature :	20 °C	Relative Humidity :	54 %
Pressure :	1011 hPa	Test Power :	AC 120V/60Hz(Dongle) DC 3.0V(Mouse)
Test Mode :	Normal Link with Dongle		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
119.54	V	30.38	-10.28	20.10	30.00	- 9.90	
143.40	V	33.26	-9.61	23.65	30.00	- 6.35	
400.54	V	29.15	-5.07	24.08	37.00	- 12.92	
500.22	V	33.38	-1.74	31.64	37.00	- 5.36	
666.38	V	28.83	0.99	29.82	37.00	- 7.18	
800.18	V	29.99	3.21	33.20	37.00	- 3.80	

**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 .
- (2) 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 .
- (3) Measuring frequency range from 30MHz to 1000MHz .
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table .





EUT :	Wireless Laser Mouse	Model Name. :	L212
Temperature :	20 °C	Relative Humidity :	54 %
Pressure :	1011 hPa	Test Power :	AC 120V/60Hz(Dongle) DC 3.0V(Mouse)
Test Mode :	Normal Link with Dongle		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
119.54	H	23.52	-10.28	13.24	30.00	- 16.76	
203.40	H	35.41	-11.96	23.45	30.00	- 6.55	
303.23	H	30.53	-7.99	22.54	37.00	- 14.46	
423.23	H	32.70	-4.36	28.34	37.00	- 8.66	
540.33	H	31.27	-1.26	30.01	37.00	- 6.99	
666.23	H	28.24	0.99	29.23	37.00	- 7.77	

**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 ◦
- (2) 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 ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ◦





**4.2.8 TEST RESULTS (ABOVE 1000 MHZ)**

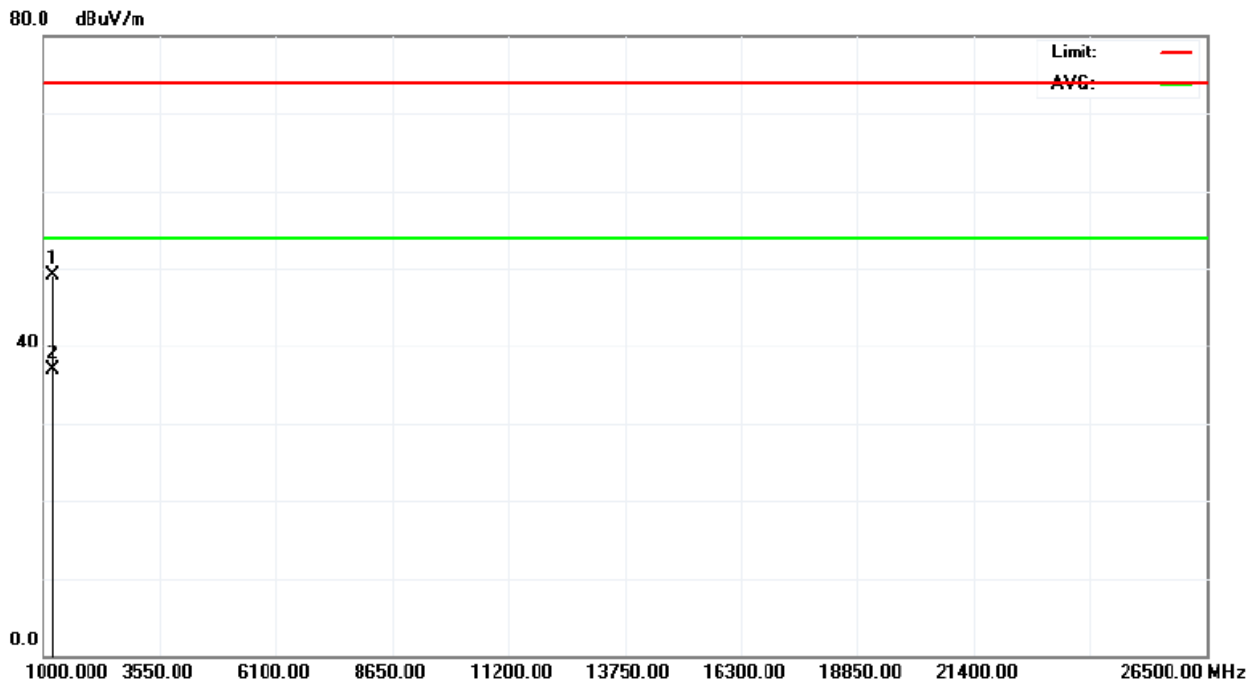
EUT :	BHS-318 Bluetooth Headset	Model No. :	BHS-318
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1010 hPa	<b>Test Voltage :</b>	AC 120V/60Hz
Test Mode :	RX Mode		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
1200.26	V	55.61	43.57	-6.59	49.02	36.98	74.00	54.00	X/H

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. "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

**RX Mode(Above 1000 MHz, Vertical)**





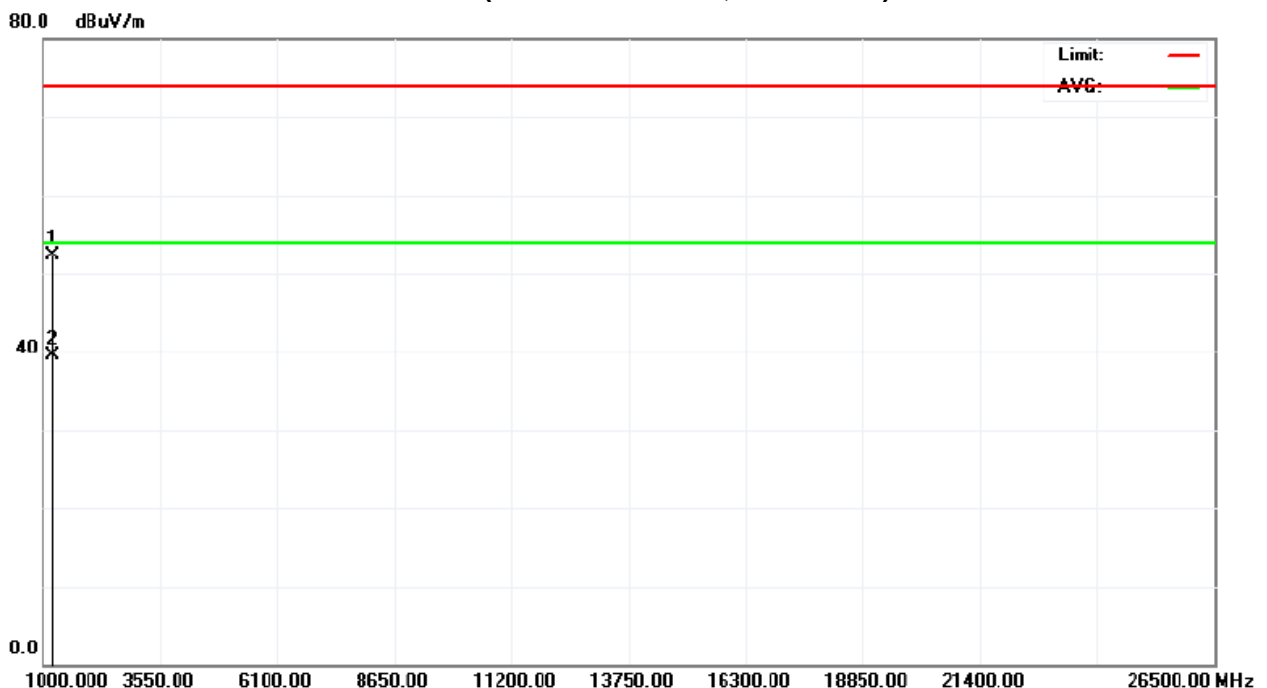
EUT :	BHS-318 Bluetooth Headset	Model No. :	BHS-318
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1010hPa	<b>Test Voltage :</b>	AC 120V/60Hz
Test Mode :	RX Mode		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
1200.26	H	58.81	46.04	-6.59	52.22	39.45	74.00	54.00	X/H

**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 ◦ "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

**RX Mode(Above 1000 MHz, Horizontal)**





**5. EUT TEST PHOTO**

**Conducted Measurement Photos**







**Radiated Measurement Photos**







**Radiated Measurement Photos**

