

FCC TEST REPORT

REPORT NO.: RF940609L15

MODEL NO.: MWL52-P

OEM MODEL NO.: MWL45-P

RECEIVED: Jun. 09, 2005

TESTED: Sep. 16 ~ 19, 2005

ISSUED: Sep. 26, 2005

APPLICANT: DEXIN Corporation

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No. 2177-01



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1 CERTIFICATION

PRODUCT: Cordless Laser Mouse
MODEL: MWL52-P
OEM MODEL: MWL45-P
BRAND: DEXIN
APPLICANT: DEXIN CORPORATION
TESTED: Sep. 16 ~ 19, 2005
TEST SAMPLE: ENGINEERING SAMPLE
STANDARDS: FCC Part 15, Subpart C (Section 15.227),
ANSI C63.4-2003

The above equipment has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Wendy Liao , **DATE:** Sep. 26, 2005
Wendy Liao

TECHNICAL
ACCEPTANCE : Gary Chang , **DATE:** Sep. 26, 2005
Responsible for RF Gary Chang

APPROVED BY : Cody Chang , **DATE:** Sep. 26, 2005
Cody Chang / Deputy Manager

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
STANDARD PARAGRAPH	TEST TYPE	RESULT	REMARK
15.207	Conducted Emission Test	PASS	Minimum passing margin is -10.97dB at 0.548MHz
15.227 15.209	Radiated Emission Test	PASS	Minimum passing margin is -1.79dB at 919.65MHz

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.55 dB
	200MHz ~1000MHz	3.58 dB
	1GHz ~ 18GHz	1.10 dB
	18GHz ~ 40GHz	0.91 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Cordless Laser Mouse
MODEL NO.	MWL52-P
OEM MODEL NO.	MWL45-P
POWER SUPPLY	3Vdc from batteries 5Vdc from host equipment
MODULATION TYPE	FSK
CARRIER FREQUENCY OF EACH CHANNEL	26.985, 27.015, 27.045, 27.075, 27.105, 27.135, 27.165, 27.195, 27.225, 27.255MHz
NUMBER OF CHANNEL	10
ANTENNA TYPE	Loop antenna
DATA CABLE	1.1m non-shielded USB cable with one core (for charger) 1.5m non-shielded USB cable without core (for receiver)
I/O PORTS	USB
ASSOCIATED DEVICES	NA

NOTE:

1. The following models are provided to this EUT.

BRAND	MODEL	DESCRIPTION
DEXIN	MWL52-P	TX (ONLY DIFFERENT FROM APPEARANCE)
DEXIN	MWL45-P	TX (ONLY DIFFERENT FROM APPEARANCE)

2. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

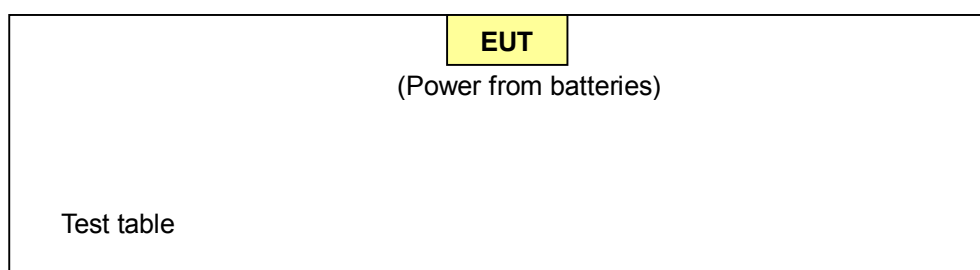
3.1 DESCRIPTION OF TEST MODES

Ten channels were provided to this EUT.

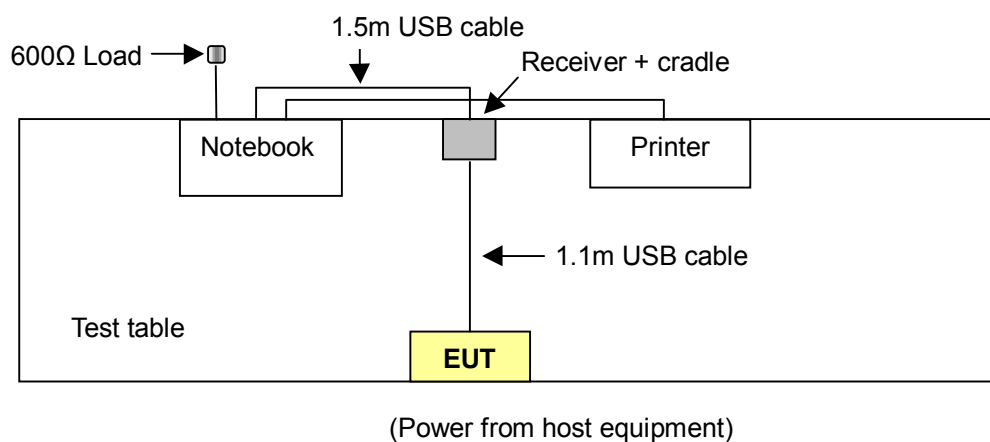
CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	26.985	6	27.135
2	27.015	7	27.165
3	27.045	8	27.195
4	27.075	9	27.225
5	27.105	10	27.255

3.1.1 CONFIGURATION OF SYSTEM UNDER TEST

Mode A (Battery mode)



Mode B (Charger mode)



3.1.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT configure mode	Applicable to		Description
	PLC	RE<1G	
A	-	√	Battery mode
B	√	√	Charger mode

Where PLC: Power Line Conducted Emission

RE<1G RE: Radiated Emission below 1GHz

“-”: No effect of power line conducted emission.

Power Line Conducted Emission Test:
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT configure mode	EUT	Available Channel	Tested Channel	Modulation Type
B	Mouse	1-10	3	FSK

Radiated Emission Test (Below 1 GHz):
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT configure mode	EUT	Available Channel	Tested Channel	Modulation Type
A	Mouse	1-10	3	FSK
B	Mouse	1-10	3	FSK

3.2 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. (15.227)
ANSI C63.4-2003

All test items have been performed and recorded as per the above standards.

3.3 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	Compaq	N800C	470048-515	FCC DoC Approved
2	PRINTER	EPSON	LQ-300+	DCGY047265	FCC DoC Approved
3	600 Ω LOAD	NA	NA	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.2 m shielded cable without core
3	NA

NOTE: All power cords of the above support units are non shielded (1.8m).

4 TEST PROCEDURE AND RESULT

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Nov. 16, 2005
RF signal cable Woken	5D-FB	Cable-HYC01-01	Jan. 09, 2006
LISN SCHWARZBECK	NNBL 8226-2	8226-142	May. 02, 2006
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Feb. 15, 2006
Software ADT	ADT_Cond_V3	NA	NA

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Shielded Room 1.
 3. The VCCI Site Registration No. is C-2040.

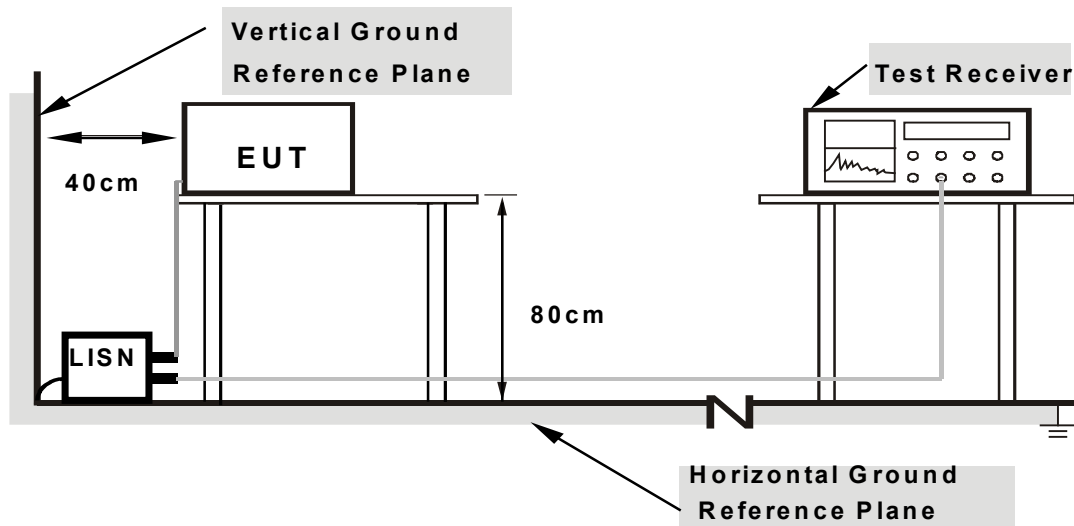
4.1.3 TEST INSTRUMENTS

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under Limit - 20dB was not recorded.

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

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.1.6 EUT OPERATING CONDITIONS

Test mode B:

- Connected the EUT via a USB cable to the notebook placed on the testing table.
- Set the EUT under charging condition.
- Set the EUT under transmitting condition.
- The notebook sent “H” messages to the printer and the printer printed them out.
- The notebook sent “H” messages to its screen and displayed them.
- Steps d ~ e was repeated.

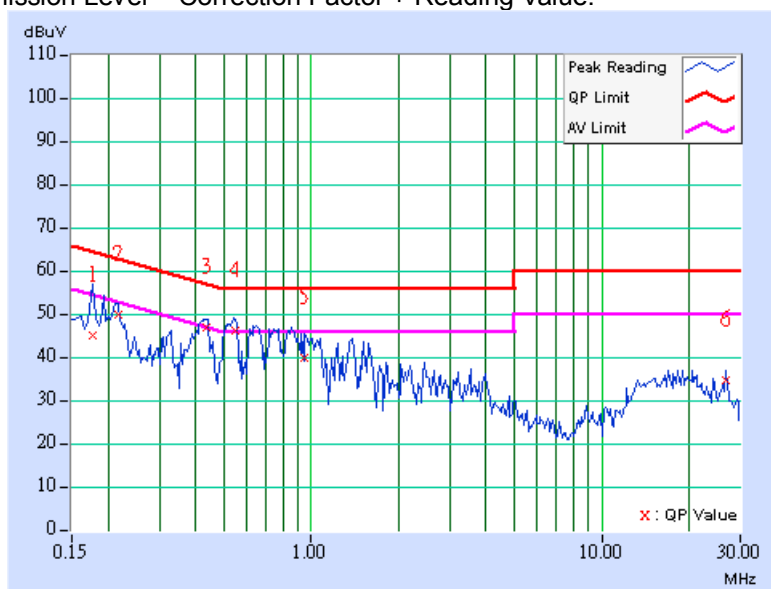
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA_CHARGER MODE

EUT	Cordless Laser Mouse	MEASUREMENT DETAIL	
MODEL	MWL52-P	PHASE	Line 1
CHANNEL	Channel 3	6dB BANDWIDTH	9 kHz
MODULATION TYPE	FSK	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
TEST MODE	B	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Jay Hsu		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.11	43.58	-	43.69	-	64.61	54.61	-20.92	-
2	0.216	0.11	48.28	-	48.39	-	62.96	52.96	-14.57	-
3	0.435	0.12	45.33	-	45.45	-	57.15	47.15	-11.71	-
4	0.548	0.14	44.89	-	45.03	-	56.00	46.00	-10.97	-
5	0.951	0.23	38.56	-	38.79	-	56.00	46.00	-17.21	-
6	26.680	1.55	33.43	-	34.98	-	60.00	50.00	-25.02	-

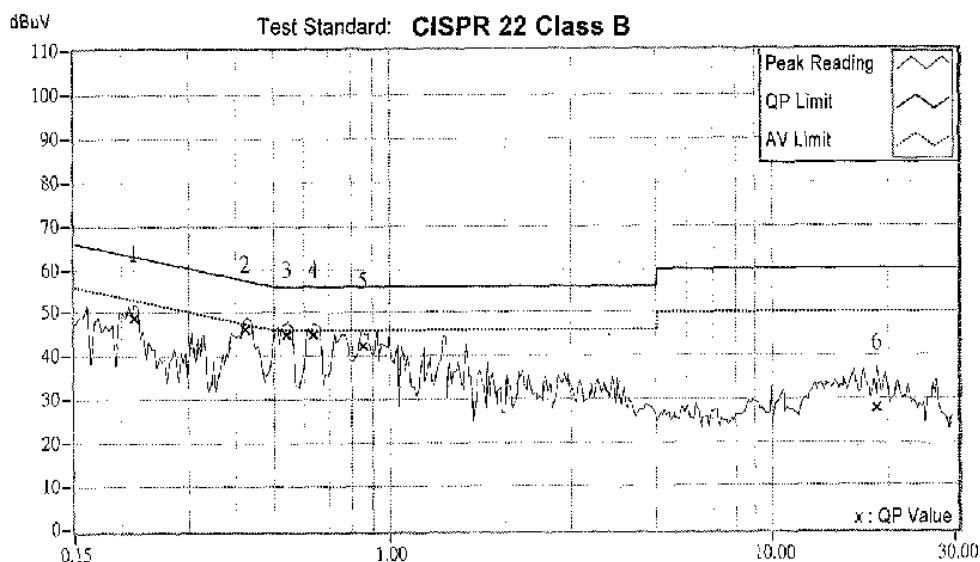
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT	Cordless Laser Mouse	MEASUREMENT DETAIL	
MODEL	MWL52-P	PHASE	Line 2
CHANNEL	Channel 3	6dB BANDWIDTH	9 kHz
MODULATION TYPE	FSK	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
TEST MODE	B	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TESTED BY	Jay Hsu		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.216	0.11	48.44	-	48.55	-	62.96	52.96	-14.41	-
2	0.423	0.12	45.54	-	45.66	-	57.38	47.38	-11.73	-
3	0.545	0.14	44.40	-	44.54	-	56.00	46.00	-11.46	-
4	0.638	0.16	44.52	-	44.68	-	56.00	46.00	-11.32	-
5	0.853	0.21	41.80	-	42.01	-	56.00	46.00	-13.99	-
6	18.633	0.65	27.08	-	27.73	-	60.00	50.00	-32.27	-

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

According to 15.227 the field strength of Emissions from intentional radiators operated under these frequencies bands shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (dBuV/m)	
	Peak	Average
26.96-27.28	100	80

Field strength limits are at the distance of 3 meters, Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/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

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.2.2 TEST INSTRUMENT

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESI7	100033	May. 19, 2006
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Nov. 21, 2005
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Jun. 01, 2006
HORN Antenna SCHWARZBECK	9120D	9120D-408	Jan. 17, 2006
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Jan. 23, 2006
Loop Antenna	HFH2-Z2	100070	Nov. 14, 2005
Preamplifier Agilent	8447D	2944A10633	Nov. 09, 2005
Preamplifier Agilent	8449B	3008A01964	Nov. 06, 2005
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	218183/4	Jan. 26, 2006
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	218195/4	Jan. 26, 2006
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA
Turn Table ADT.	TT100.	TT93021703	NA
Turn Table Controller ADT.	SC100.	SC93021703	NA

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Chamber 2.
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The VCCI Site Registration No. is R-237.
 5. The IC Site Registration No. is IC4924-3.

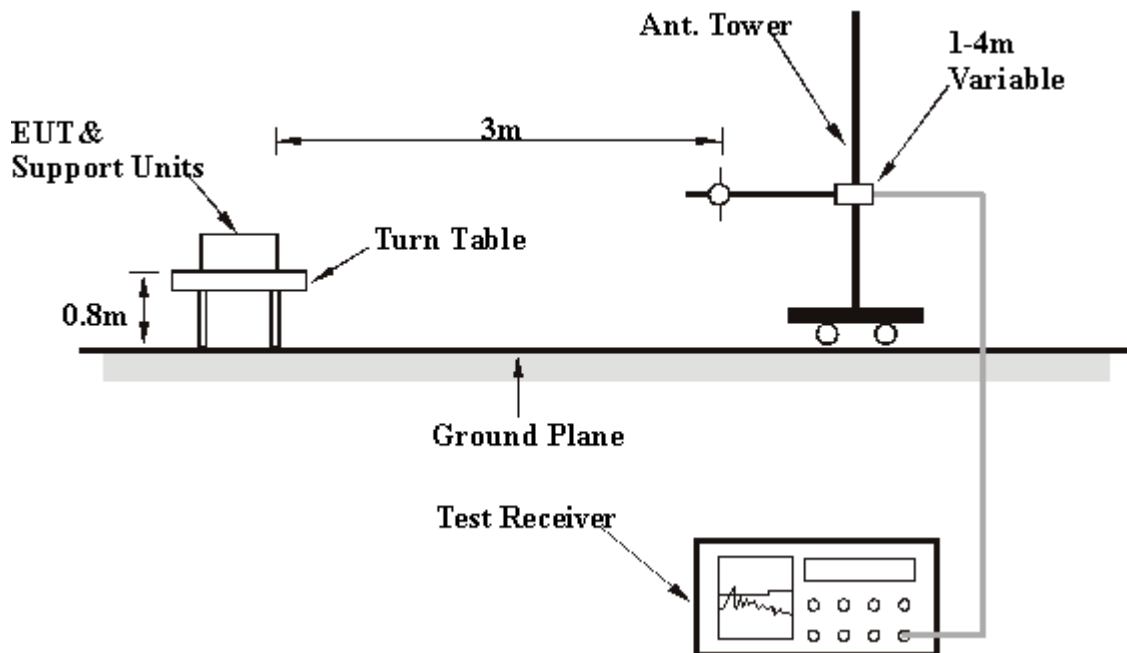
4.2.3 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.

4.2.4 TEST SETUP



For the actual test configuration, please refer to the related item in this test report - Photographs of the Test Configuration.

4.2.5 EUT OPERATING CONDITION

Test mode A

- Placed the EUT on the testing table.
- Set the EUT under transmitting condition.

Test mode B

- Connected the EUT via a USB cable to the notebook placed on the testing table.
- Set the EUT under charging condition.
- Set the EUT under transmitting condition.
- The notebook sent "H" messages to the printer and the printer printed them out.
- The notebook sent "H" messages to its screen and displayed them.
- Steps d ~ e was repeated.

4.2.6 TEST RESULTS

RADIATED WORST-CASE DATA

EUT	Cordless Laser Mouse	MODEL	MWL52-P
INPUT POWER	3Vdc	FREQUENCY RANGE	Below 1000 MHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 69 % RH, 991 hPa	DETECTOR FUNCTION	Peak / Average
TEST MODE	B	TESTED BY	Morgan Chen

TEST DISTANCE: 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*27.045	31.25 PK	100.00	-68.75	1.00	76	17.71	13.54
2	*27.045	21.21AV	80.00	-58.79	1.00	76	7.67	13.54

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. "*" = Fundamental frequency.
 6. Loop Antenna was used for all frequency below 30MHz.

RADIATED WORST-CASE DATA_BATTERY MODE

EUT	Cordless Laser Mouse	MODEL	MWL52-P
INPUT POWER	3Vdc	FREQUENCY RANGE	Below 1000 MHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 69 % RH, 991 hPa	DETECTOR FUNCTION	Quasi-Peak
TEST MODE	A	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	650.10	33.92 QP	46.00	-12.08	1.25 H	52	10.69	23.23
2	757.01	34.49 QP	46.00	-11.51	1.00 H	28	8.54	25.96
3	811.44	35.68 QP	46.00	-10.32	1.00 H	46	9.30	26.38
4	865.87	35.93 QP	46.00	-10.07	1.50 H	13	9.06	26.87
5	920.30	39.27 QP	46.00	-6.73	1.25 H	349	11.84	27.44
6	974.73	42.14 QP	54.00	-11.86	1.25 H	1	14.20	27.94

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	650.10	29.29 QP	46.00	-16.71	1.00 V	178	6.05	23.23
2	757.01	30.23 QP	46.00	-15.77	1.25 V	217	4.27	25.96
3	811.44	30.41 QP	46.00	-15.59	1.25 V	76	4.03	26.38
4	865.87	32.30 QP	46.00	-13.70	1.75 V	154	5.43	26.87
5	920.30	34.44 QP	46.00	-11.56	1.75 V	151	7.01	27.44
6	974.73	38.96 QP	54.00	-15.04	1.00 V	82	11.02	27.94

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.

RADIATED WORST-CASE DATA_CHARGER MODE

EUT	Cordless Laser Mouse	MODEL	MWL52-P
INPUT POWER	120Vac, 60 Hz	FREQUENCY RANGE	Below 1000 MHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 69 % RH, 991 hPa	DETECTOR FUNCTION	Quasi-Peak
TEST MODE	B	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	222.44	41.35 QP	46.00	-4.65	1.25 H	190	29.49	11.86
2	405.17	39.95 QP	46.00	-6.05	1.00 H	25	21.77	18.18
3	757.01	39.65 QP	46.00	-6.35	1.75 H	25	13.70	25.96
4	811.44	41.39 QP	46.00	-4.61	1.50 H	16	15.01	26.38
5	865.87	41.92 QP	46.00	-4.08	1.50 H	37	15.05	26.87
6	919.65	44.21 QP	46.00	-1.79	1.46 H	35	16.78	27.43

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	199.12	34.93 QP	43.50	-8.57	1.00 V	169	23.65	11.28
2	405.17	36.36 QP	46.00	-9.64	1.75 V	301	18.18	18.18
3	595.67	36.78 QP	46.00	-9.22	1.25 V	316	14.02	22.76
4	702.59	36.61 QP	46.00	-9.39	1.25 V	328	12.63	23.98
5	865.87	36.05 QP	46.00	-9.95	1.25 V	259	9.18	26.87
6	920.30	37.10 QP	46.00	-8.90	1.00 V	217	9.67	27.44

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.

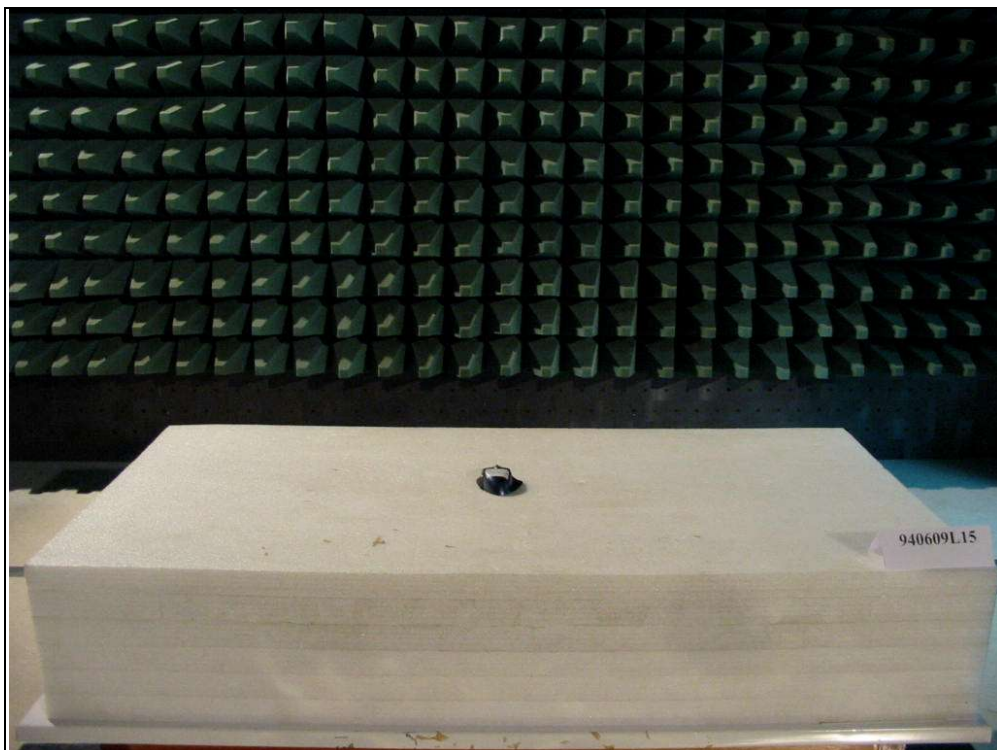
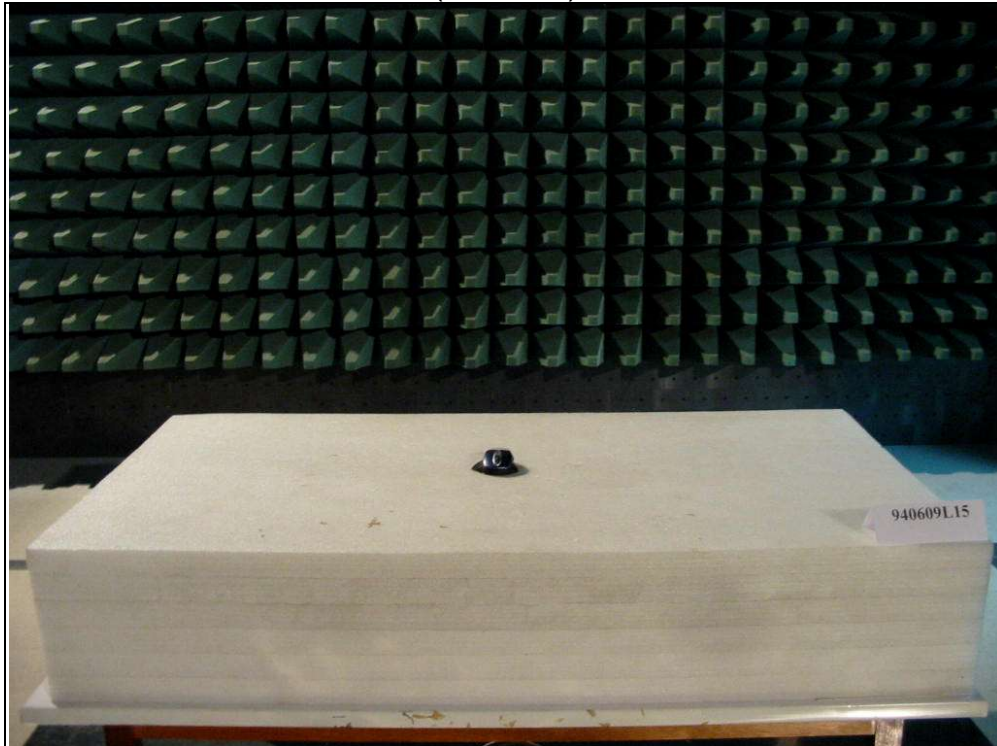
4 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST (MODE B)

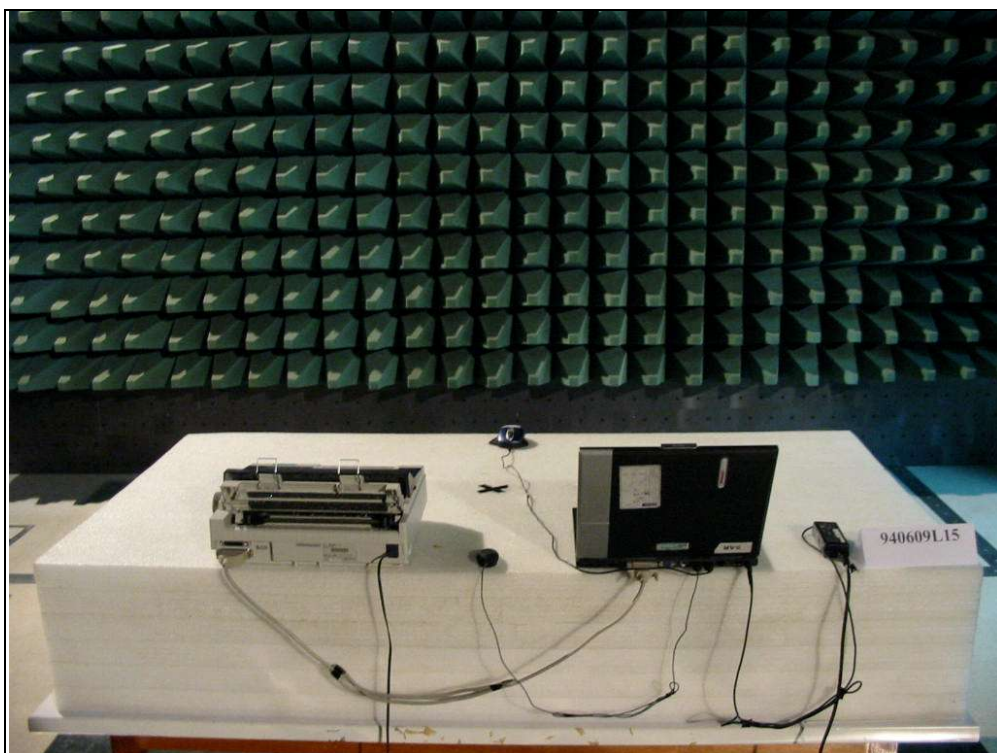
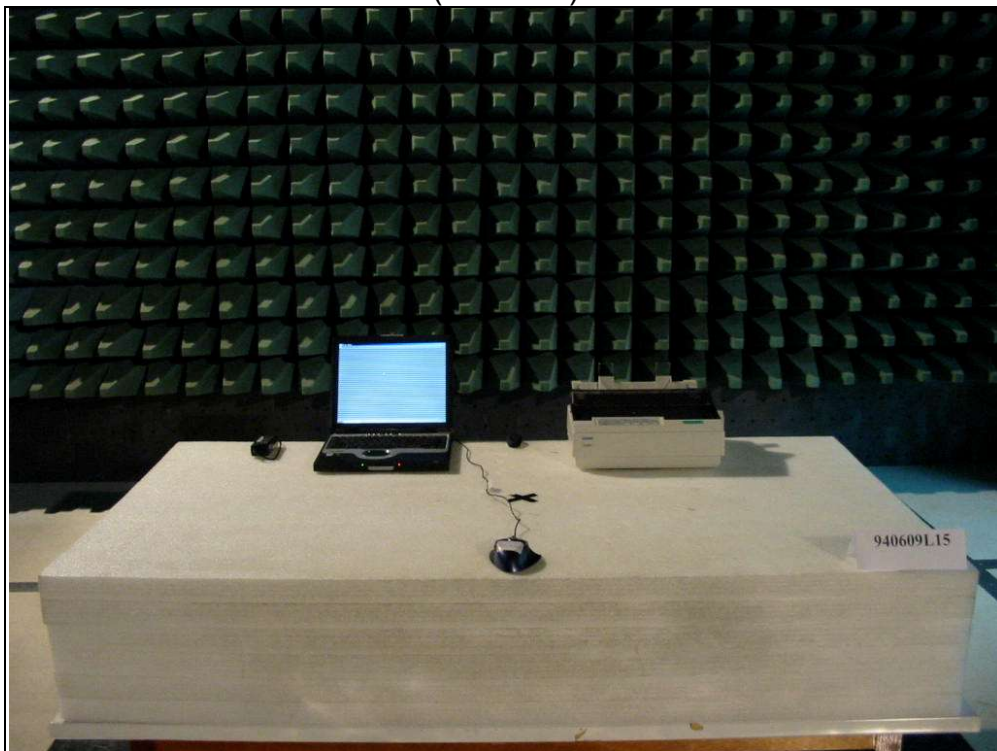


RADIATED EMISSION TEST

(MODE A)



RADIATED EMISSION TEST (MODE B)



5 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC, NVLAP, UL , A2LA
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	CNLA, BSMI, DGT
Netherlands	Telefication
Singapore	PSB , GOST-ASIA(MOU)
Russia	CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml.
If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180
Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343
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Linko RF Lab.

Tel: 886-3-3270910
Fax: 886-3-3270892

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.

APPENDIX-A

MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.