FCC 47 CFR PART 15 SUBPART B & IC ICES-003 TEST REPORT

for

Wireless Mouse

MODEL: SM-8860

Test Report Number:
T100705003-D

Issued for

LITE-ON Technology Corp.
No.90, Chien 1 Road, Chung Ho, Taipei Hsien 235,
Taiwan, R.O.C

Issued By:

Compliance Certification Services Inc.
Wugu Laboratory
No. 11, Wu-Gong 6th Rd., Wugu Industrial Park,
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Issued Date: July 16, 2010

Testing Laboratory
1309

ACCREDITED
TESTING CERT #0824.01

Revision History

Rev.		Issue Date		Revisions	Effect Page	Revised By
00		July 16, 2010		Initial Issue	ALL	Eunice Shen

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1 TEST RESULT CERTIFICATION

Product:	Wireless Mouse
Model:	SM-8860
Brand:	lenovo
Applicant:	**LITE-ON Technology Corp.** No.90, Chien 1 Road, Chung Ho, Taipei Hsien 235, Taiwan, R.O.C
Manufacturer:	**Silitek Electronic (Dong Guan) Co., Ltd,** The Mid. Of Keji Road, Shi Jie Town Dongguan City, Guangdong Province, P.R.China.
Tested:	July 12, 2010
Test Voltage:	120VAC, 60Hz

EMISSION			
Standard	**Item**	**Result**	**Remarks**
FCC 47 CFR Part 15 Subpart B (July 10, 2008), ICES-003 Issue 4 ANSI C63.4-2003	Conducted (Power Port)	N/A	Not applicable, because EUT does not connect to AC Main Source direct.
	Radiated	PASS	Meet Class B limit

Note: 1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.
2. The information of measurement uncertainty is available upon the customer's request.

Deviation from Applicable Standard
None

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Rex Lai
Section Manager

Reviewed by:

Gina Lo
Section Manager

2 EUT DESCRIPTION

Product	Wireless Mouse
Brand Name	lenovo
Model	SM-8860
Applicant	LITE-ON Technology Corp.
Serial Number	T100705003
Received Date	July 5, 2010
EUT Power Rating	Powered by AAA batteries (DC: 1.5V)

I/O Port

I/O PORT TYPES	Q'TY	TESTED WITH
N/A		

Note: *Client consigns only one model sample to test (Model Number: SM-8860).*

3 TEST METHODOLOGY

3.1. DECISION OF FINAL TEST MODE

1. The following test mode was scanned during the preliminary test:

Pre-Test Mode
Mode 1: Operating

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

Final Test Mode		
Emission	Conducted Emission	**N/A**
	Radiated Emission	**Mode 1**

Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.

3.2. EUT SYSTEM OPERATION

1	Setup the EUT and simulators as shown on 4.2.
2	Insert dongle to Host PC.
3	Turn on the power of all equipment.
4	EMI test program was loaded and executed in “Windows XP” mode.
5	Data was sent to EUT and filling the screen of monitor with upper case of “H” patterns.
6	EUT was played music or movie during the test.
7	Test program sequentially exercised all related I/O’s of Host PC and sent “H” patterns to all applicable output ports of Host PC.
8	Repeat 4 to 7.

Note: *Test program is self-repeating throughout the test.*

4 SETUP OF EQUIPMENT UNDER TEST

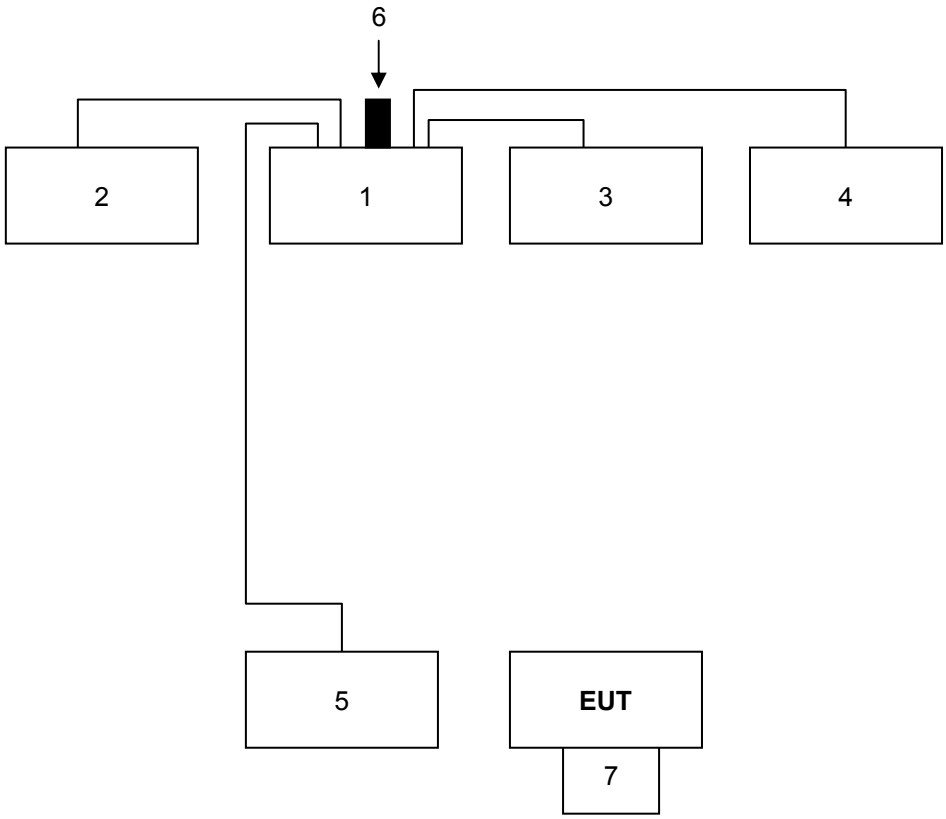
4.1. DESCRIPTION OF SUPPORT UNITS

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.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
1.	PC	HP	dx7510	SGH947PR1Y	FCC DoC	N/A	Unshielded, 1.8m
2.	LCD Monitor	DELL	2407WFPb	CN-0FC255-46 633-675-22TJS	FCC DoC	Shielded, 1.8m with 2 cores	Unshielded, 1.8m
3.	Printer	EPSON	STYLUS C60	DR3K039633	FCC DoC	Shielded, 1.8m	Unshielded, 1.8m
4.	Modem	ACEEX	DM-1414	0405026756	IFAXDM1414	Shielded, 1.8m	Unshielded, 1.8m
5	USB Keyboard	DELL	Sk-8115	N/A	FCC DoC	Shielded, 1.8m	N/A
6	USB Transceiver	Liteon	SD-9080	N/A	H4IDG9080	N/A	N/A
7	Test Kit	N/A	N/A	N/A	N/A	N/A	N/A

Note: Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.2. CONFIGURATION OF SYSTEM UNDER TEST



5 FACILITIES AND ACCREDITATIONS

5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at:

☒ No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan

☒ No.139, Wugong Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan

☐ No. 81-1, Lane 210, Pa-De 2nd Rd., Luchu Hsiang, Taoyuan Shien, Taiwan.

☐ No.163-1, Jhongsheng Rd., Sindian City, Taipei County 23151, Taiwan.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4, CISPR 16-1-5.

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Taiwan	TAF (TAF 1309)
USA	A2LA (0824.01)

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	Industry Canada (3M Semi Anechoic Chamber: IC 2324G-1 / IC 2324G-2 / 2324J-1 / 2324J-2 to perform)
Norway	Nemko
Japan	VCCI 966 Chamber C: Radiated emissions: 30 MHz -1000 MHz: R-3282 / Above 1GHz: G-146 10M Chamber: Radiated emissions: 30 MHz -1000 MHz: R-3283 / Above 1GHz: G-147 Conducted Emission A: C-3612 / T-1745
USA	FCC (3M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements)

Copies of granted accreditation certificates are available for downloading from our web site, http:///www.ccsrf.com

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty
Conducted emissions	9kHz~30MHz	N/A
Radiated emissions # Wugu 10M Chamber	30~200MHz	±3.9642
	200~1000MHz	±3.9510
	Above 1GHz	±2.4656

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

Consistent with industry standard (e.g. CISPR 22: 2006, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.

6 CONDUCTED EMISSION MEASUREMENT

6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

NOTE:

(1) The lower limit shall apply at the transition frequencies.
(2) The limit decreases in line with the logarithm of the frequency in the range 0.15 to 0.50 MHz.
(3) 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.

6.2. TEST INSTRUMENTS

Conducted Emission Room				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
N/A				

6.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

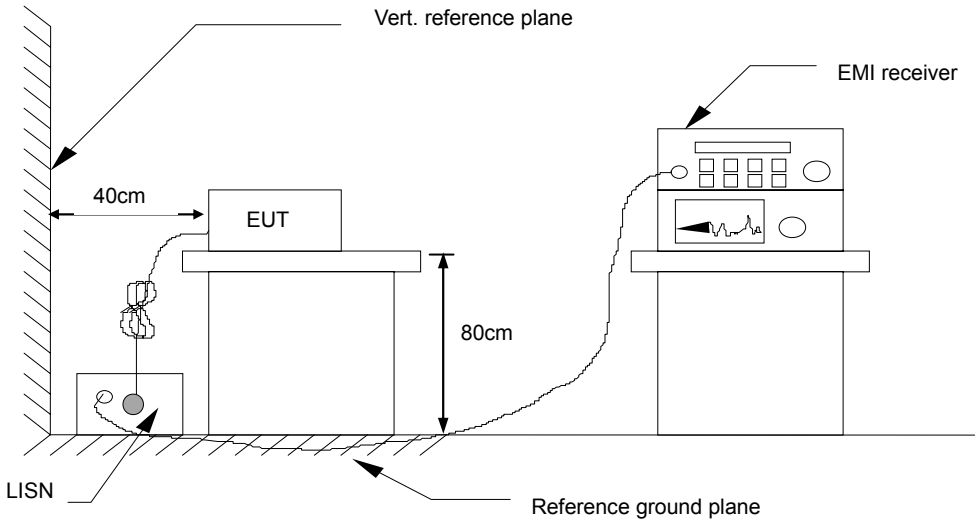
Procedure of Preliminary Test

- The EUT and support equipment, if needed, were set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 12 mm non-conductive covering to insulate the EUT from the ground plane.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed by AC 120VAC/60Hz main power, through a Line Impedance Stabilization Network (LISN), which was supplied power source and was grounded to the ground plane.
- All support equipment power by from a second LISN.
- The test program of the EUT was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

Procedure of Final Test

- EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
- The test data of the worst-case condition(s) was recorded.

6.4. TEST SETUP



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

6.5. DATA SAMPLE:

Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correctrion factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak. limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
x.xx	43.95	33.00	10.00	53.95	43.00	56.00	46.00	-2.05	-3.00	Pass

Frequency (MHz) = Emission frequency in MHz
Reading (dBuV) = Uncorrected Analyzer/Receiver reading + Insertion loss of LISN, if it > 0.5 dB
Correction Factor (dB) = LISN Factor + Cable Loss
Result (dBuV) = Raw reading converted to dBuV and CF added
Limit (dBuV) = Limit stated in standard
Margin (dB) = Result (dBuV) – Limit (dBuV)

6.6. TEST RESULTS

Not applicable, because EUT does not connect to AC Main Source direct.

7 RADIATED EMISSION MEASUREMENT

7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

According to FCC Part 15.33 (b), for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.75	30
1.75-108	1000
108-500	2000
500-1000	5000
Above 1000	5th harmonic of the highest frequency or 40GHz, whichever is lower

Below 1GHz (for digital device)

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

Limit tables for non-digital device:

Class A Radiated Emission limit at 10m (for others)

Frequency (MHZ)	Field Strength Limit (uV/m)Q.P.	Field Strength Limit (dBuV/m)Q.P.
30 - 88	90	39
88 - 216	150	43.5
216 – 960	210	46.4
Above 960	300	49.5

Class B Radiated Emission limit at 3m (for others)

Frequency (MHZ)	Field Strength Limit (uV/m)Q.P.	Field Strength Limit (dBuV/m)Q.P.
30 - 88	100	40
88 - 216	150	43.5
216 – 960	200	46
Above 960	500	54

Above 1GHz(for all device)

Frequency (MHZ)	Class A (dBuV/m) (At 10m)		Class B (dBuV/m) (At 3m)	
	Average	Peak	Average	Peak
Above 1000	49.5	69.5	54	74

NOTE: (1) The lower limit shall apply at the transition frequencies.
(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).
(3) The measurement above 1GHz is at close-in distances 3m,and determine the limit **L_2** corresponding to the close-in distance **d_2** by applying the following relation: **$L_2 = L_1 (d_1/d_2)$**, where **L_1** is the specified limit in microvolts per metre (**uV/m**) at the distance **d_1** (**10m**), **L_2** is the new limit for distance **d_2** (**3m**).
So the new Class A limit above 1GHz at 3m is as following table:

Frequency (MHZ)	Class A (dBuV/m) (At 3m)	
	Average	Peak
Above 1000	60	80

7.2. TEST INSTRUMENTS

Wugu 10M Chamber				
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Due**
Spectrum Analyzer	Agilent	E4446A	MY48250297	10/14/2010
EMI Test Receiver	R&S	ESCI	100961	09/13/2010
EMI Test Receiver	R&S	ESCI	100962	09/13/2010
Pre-Amplifier	MITEQ	1625-3000	1490939	11/20/2010
Pre-Amplifier	MITEQ	1625-3000	1490940	11/20/2010
Pre-Amplifier	MITEQ	AFS44-00102650-42-10P-44	1415367	11/20/2010
Bilog Antenna	Sunol Sciences	JB1	A100209-2	10/08/2010
Bilog Antenna	Sunol Sciences	JB1	A100209-3	10/08/2010
Horn Antenna	EMCO	3117	00055167	12/02/2010
Turn Table	CCS	CC-T-1F	N/A	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R
Site NSA	CCS	N/A	N/A	11/26/2010
Site VSWR	CCS	N/A	N/A	11/24/2010
Test S/W	EZ-EMC (CCS-3A1RE)			

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. N.C.R = No Calibration Request.

7.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

Procedure of Preliminary Test

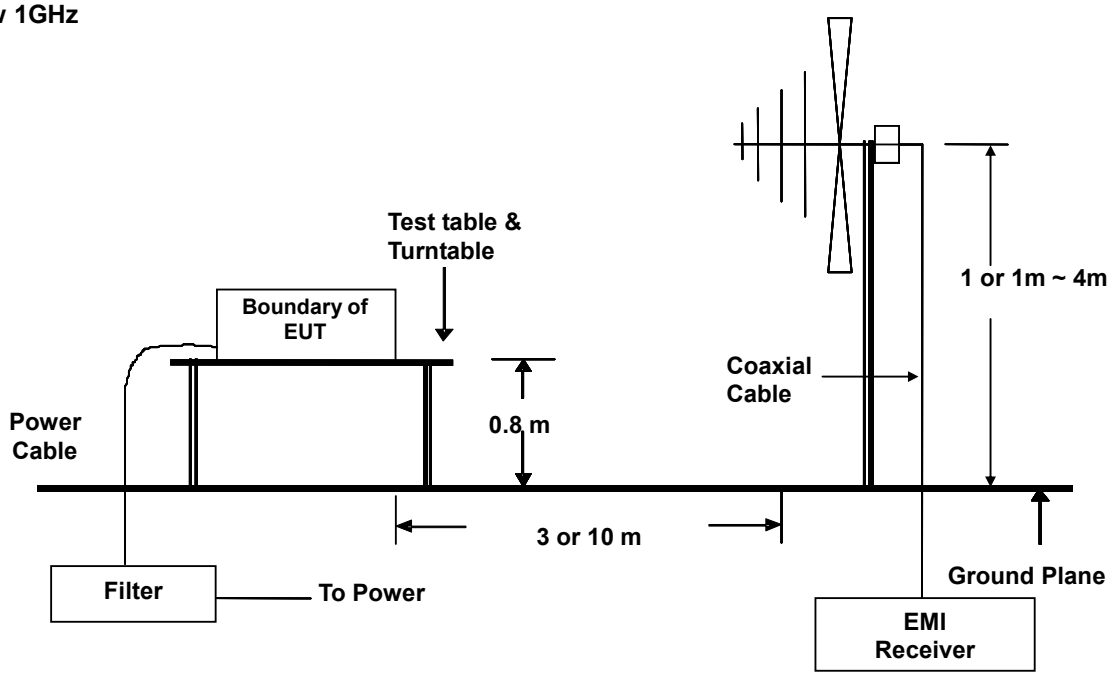
- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC 120VAC/60Hz power source from the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- The antenna was placed at 3 or 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 40GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

Procedure of Final Test

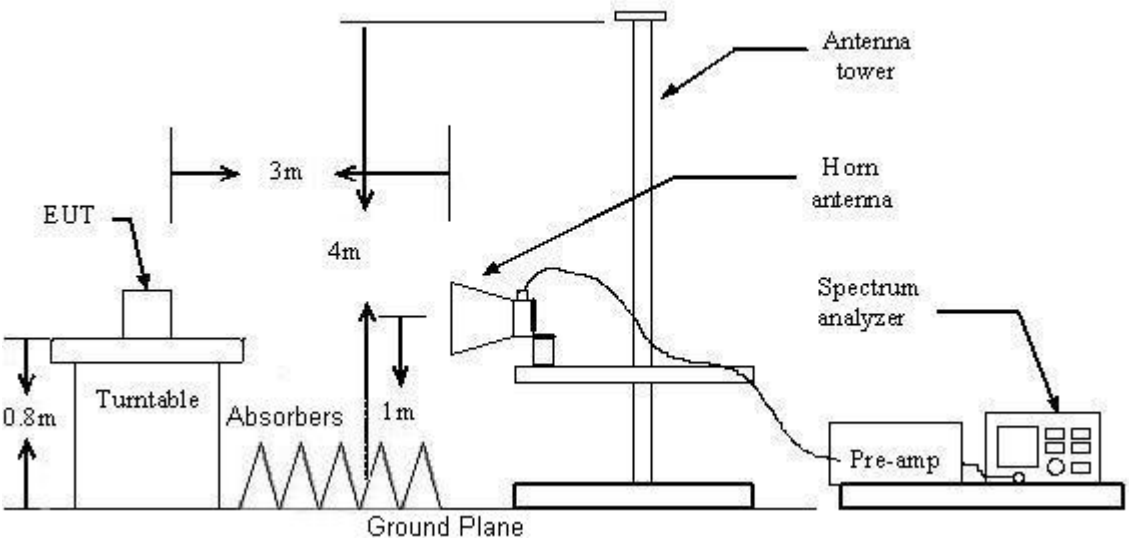
- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 40GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 or 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recording at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.
- The test data of the worst-case condition(s) was recorded.

7.4. TEST SETUP

Below 1GHz



Above 1GHz



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

7.5. DATA SAMPLE:

Below 1GHz

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (◦)	Height (cm)	Remark
xx.xx	16.49	9.86	26.35	30.00	-3.65	116.00	101.00	QP

Above 1GHz

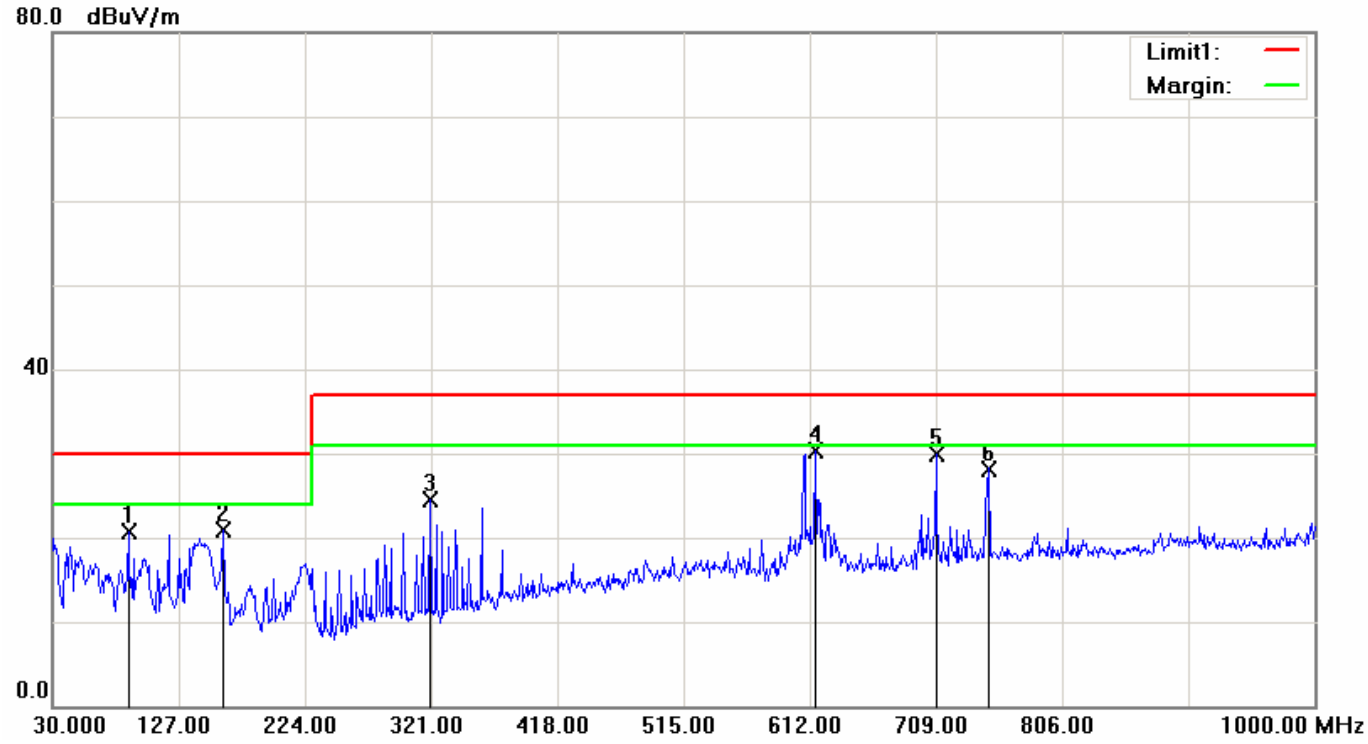
Frequency MHz	Reading		Corr. Factor (dB/m)	Result		Limit		Margin (dB)	Azimuth (°)	Height (cm)	Remark
	Peak (dBuV/m)	Average (dBuV/m)		Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)				
xx.xx	39.34	---	0.68	40.02	---	74.00	54.00	-13.98	49.70	100.00	Peak

Frequency (MHz) = Emission frequency in MHz
Reading (dBuV) = Uncorrected Analyzer / Receiver reading
Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
Limit (dBuV/m) = Limit stated in standard
Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
Q.P. = Quasi-Peak

7.6. TEST RESULTS

Below 1000MHz

Model No.	SM-8860	Test Mode	Mode 1
Environmental Conditions	26°C, 60% RH	Test Date	2010/7/12
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function:	Peak.	Tested by	Rex Huang

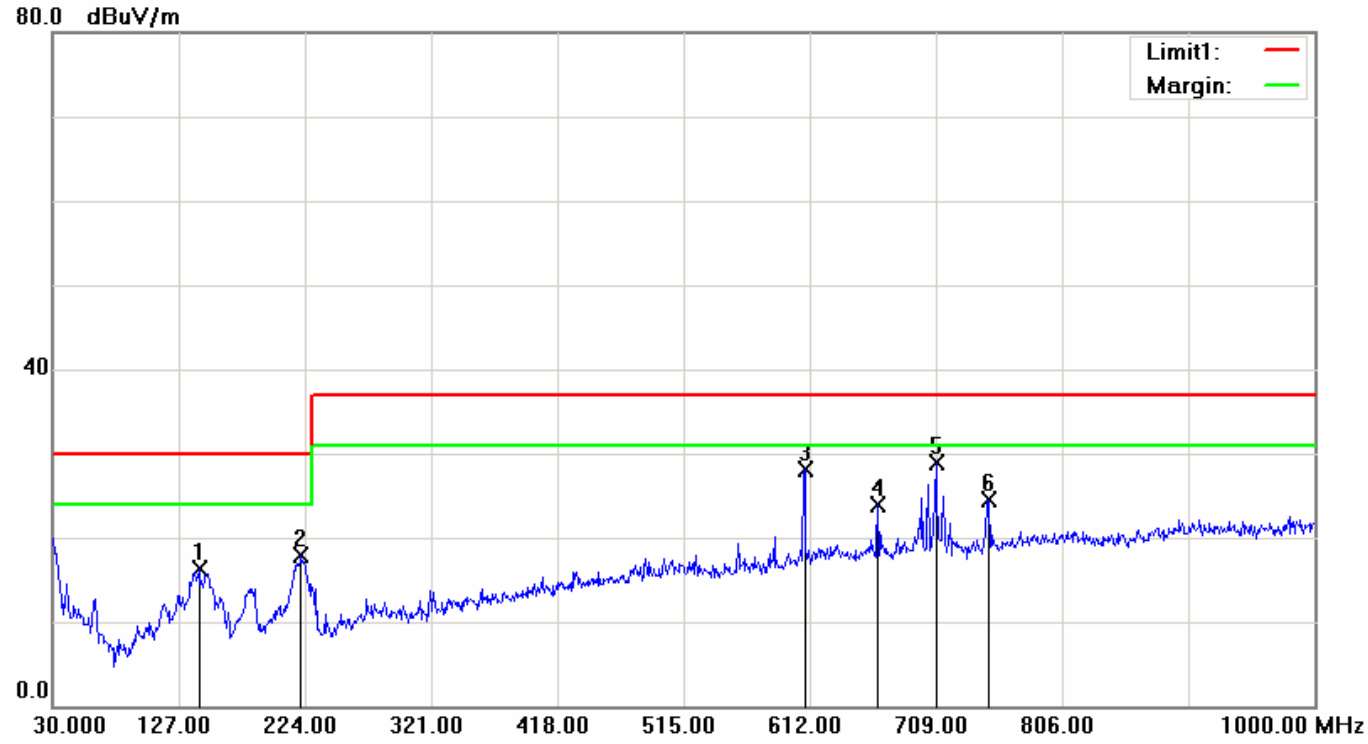


No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	88.2000	54.53	-33.76	20.77	30.00	-9.23	2	199	peak
2	160.9500	49.93	-29.07	20.86	30.00	-9.14	0	300	peak
3	320.0300	50.79	-26.22	24.57	37.00	-12.43	0	199	peak
4	615.8800	50.51	-20.17	30.34	37.00	-6.66	0	100	peak
5	709.0000	48.59	-18.70	29.89	37.00	-7.11	205	199	peak
6	749.7400	46.04	-17.84	28.20	37.00	-8.80	0	357	peak

REMARKS: The other emission levels were very low against the limit.

Below 1000MHz

Model No.	SM-8860	**Test Mode**	Mode 1
Environmental Conditions	26°C, 60% RH	**Test Date**	2010/7/12
Antenna Pole	Horizontal	**Antenna Distance**	10m
Detector Function:	Peak.	**Tested by**	Rex Huang



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	142.5200	44.58	-28.37	16.21	30.00	-13.79	122	400	peak
2	221.0900	47.90	-30.08	17.82	30.00	-12.18	113	400	peak
3	608.1200	48.79	-20.70	28.09	37.00	-8.91	118	100	peak
4	664.3800	43.18	-19.26	23.92	37.00	-13.08	0	199	peak
5	709.0000	47.78	-18.86	28.92	37.00	-8.08	195	100	peak
6	749.7400	42.70	-18.13	24.57	37.00	-12.43	0	300	peak

REMARKS: The other emission levels were very low against the limit.

Above 1000MHz

Model No.	SM-8860	**Test Mode**	Mode 1
Environmental Conditions	26°C, 60% RH	**Test Date**	2010/7/12
Antenna Pole	Vertical	**Antenna Distance**	3m
Highest frequency generated or used	2480MHz	**Upper frequency**	12400MHz
Detector Function:	AVG	**Tested by**	Rex Huang

Frequency MHz	Reading		Corr. Factor (dB/m)	Result		Limit		Margin (dB)	Azimuth (°)	Height (cm)	Remark
	Peak (dBuV/m)	Average (dBuV/m)		Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)				
1136.975	72.86	58.35	-21.24	51.62	37.11	74.00	54.00	-16.89	92	257	AVG
1308.121	74.17	60.57	-20.74	53.43	39.83	74.00	54.00	-14.17	242	100	AVG
1720.140	72.17	53.25	-18.36	53.81	34.89	74.00	54.00	-19.11	245	204	AVG
2633.125	66.76	50.45	-14.28	52.48	36.17	74.00	54.00	-17.83	259	100	AVG
3744.250	67.43	48.17	-12.70	54.73	35.47	74.00	54.00	-18.53	267	100	AVG
4943.975	70.40	48.62	-11.49	58.91	37.13	74.00	54.00	-16.87	58	393	AVG

REMARKS:

1. The other emission levels were very low against the limit.

2. Average test would be performed if the peak result were greater than the average limit.

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. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

Model No.	SM-8860	Test Mode	Mode 1
Environmental Conditions	26°C, 60% RH	Test Date	2010/7/12
Antenna Pole	Horizontal	Antenna Distance	3m
Highest frequency generated or used	2480MHz	Upper frequency	12400MHz
Detector Function:	AVG	Tested by	Rex Huang

Frequency MHz	Reading		Corr. Factor (dB/m)	Result		Limit		Margin (dB)	Azimuth (°)	Height (cm)	Remark
	Peak (dBuV/m)	Average (dBuV/m)		Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)				
1132.110	71.36	58.05	-21.25	50.11	36.80	74.00	54.00	-17.20	89	100	AVG
1307.894	71.68	55.12	-20.74	50.94	34.38	74.00	54.00	-19.62	306	100	AVG
1719.570	68.00	57.76	-18.36	49.64	39.40	74.00	54.00	-14.60	12	277	AVG
2523.125	61.07	54.07	-14.64	46.43	39.43	74.00	54.00	-14.57	42	354	AVG
2738.010	61.82	51.96	-13.94	47.88	38.02	74.00	54.00	-15.98	72	115	AVG
4943.350	74.81	48.51	-11.50	63.31	37.01	74.00	54.00	-16.99	22	100	AVG

REMARKS:

1. The other emission levels were very low against the limit.

2. Average test would be performed if the peak result were greater than the average limit.

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. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

8 PHOTOGRAPHS OF THE TEST CONFIGURATION

RADIATED EMISSION TEST

Below 1GHz

Above 1GHz