

FCC TEST REPORT

REPORT NO.: RF980825L01
 MODEL NO.: MOC-250M
 RECEIVED : Aug. 25, 2009
 TESTED : Aug. 26 ~ Aug. 31, 2009
 ISSUED : Sep. 08, 2009

APPLICANT : KYE SYSTEMS CORP.

ADDRESS: NO. 492, SEC. 5, CHUNG HSIN RD., SAN CHUNG, TAIPEI HSIEN, 241, TAIWAN, R.O.C.

ISSUED BY :	Bureau Veritas Consumer Products Services
	(H.K.) Ltd., Taoyuan Branch

- LAB ADDRESS : No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou Hsiang, Taipei Hsien 244, Taiwan, R.O.C.
- **TEST LOCATION :** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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1. CERTIFICATION

PRODUCT: Mouse
MODEL NO.: MOC-250M
BRAND: SAMSUNG (refer to item 3.1 for more details)
APPLICANT: KYE SYSTEMS CORP.
TESTED: Aug. 26 ~ Aug. 31, 2009
TEST SAMPLE: ENGINEERING SAMPLE
STANDARDS: FCC Part 15, Subpart C (Section 15.249)
ANSI C63.4-2003

The above equipment (model: MOC-250M) have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, 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	Joanna Wang / Senior Specialist	, DATE : _	Sep, 08, 2009
TECHNICAL ACCEPTANCE Responsible for RF	Long Chen Long Chen / Senior Engineer	, DATE : _	Sep. 08, 2009
APPROVED BY	: <u>Gran</u> Gary Char g Gary Chang / Assistant Manager	, DATE : _	Sep. 08, 2009



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C (Section 15.249)

STANDARD PARAGRAPH TEST TYPE		RESULT	REMARK
15.207	Conducted Emission Test	NA	Power supply is 3Vdc from battery.
15.209 15.249 15.249 (d)	Radiated Emission Test Band Edge Measurement Limit: 50dB less than the peak value of fundamental frequency or meet radiated emission limit in section 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -17.86dB at 49.34MHz.

2.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz~30MHz	2.44dB
Radiated emissions	30MHz ~ 200MHz	3.34dB
	200MHz ~1000MHz	3.35dB
	1GHz ~ 18GHz	2.26dB
	18GHz ~ 40GHz	1.94dB

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

EUT	Mouse
MODEL NO.	MOC-250M
FCC ID	FSUKM013
POWER SUPPLY	3Vdc from battery
MODULATION TYPE	GFSK
OPERATING FREQUENCY	2402 ~ 2480MHz
NUMBER OF CHANNEL	79
ANTENNA TYPE	Printed antenna with 1.84dBi gain
DATA CABLE	NA
I/O PORT	NA
ACCESSORY DEVICES	NA

NOTE:

1. The following brand names were provided to this EUT.

BRAND	DESCRIPTION	
SAMSUNG	For marketing purpose	
PLEOMAX	For marketing purpose.	

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

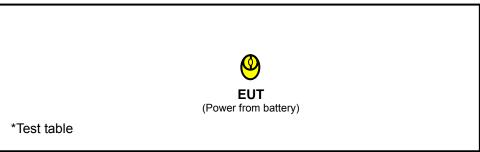


3.2 DESCRIPTION OF TEST MODES

79 channels are provided to this EUT:

CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST



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3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

	EUT CONFIGURE		APPLICA	ABLE TO		DESCRIPTION
	MODE	RE≥1G	RE<1G	PLC	вм	
I	-	\checkmark	\checkmark	NOTE	\checkmark	-

Where **PLC:** Power Line Conducted Emission

RE≥1G: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz BM: Bandedge Measurement

NOTE: No need to concern of Conducted Emission due to the EUT is powered by battery.

RADIATED EMISSION TEST (ABOVE 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE	TESTED	MODULATION	MODULATION	DATA RATE
CHANNEL	CHANNEL	TECHNOLOGY	TYPE	(Mbps)
0 to 78	0, 39, 78	FHSS	GFSK	1.0

RADIATED EMISSION TEST (BELOW 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE	TESTED	MODULATION	MODULATION	DATA RATE
CHANNEL	CHANNEL	TECHNOLOGY	TYPE	(Mbps)
0 to 78	39	FHSS	GFSK	1.0

BANDEDGE MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE	TESTED	MODULATION	MODULATION	DATA RATE
CHANNEL	CHANNEL	TECHNOLOGY	TYPE	(Mbps)
0 to 78	0, 78	FHSS	GFSK	1.0



3.3 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 (Section 15.249) ANSI C63.4-2003

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

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit.



4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209, 15.249 as following:

15.209 Limit							
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					
15.249 Limit							
Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)					
902 ~ 928 MHz	50	500					
2400 ~ 2483.5 MHz	50	500					
5725 ~ 5875 MHz	50	500					
24 ~ 24.25 GHz	250	2500					

NOTE:

1. The lower limit shall apply at the transition frequencies.

2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

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.



4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESI7	100033	Jul. 06, 2009	Jul. 05, 2010
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100076	May 26, 2009	May 25, 2010
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Apr. 27, 2009	Apr. 26, 2010
HORN Antenna SCHWARZBECK	9120D	9120D-209	Jul. 01, 2009	Jun. 30, 2010
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Dec. 25, 2008	Dec. 24, 2009
Preamplifier Agilent	8447D	2944A10633	Nov. 03, 2008	Nov. 02, 2009
Preamplifier Agilent	8449B	3008A01964	Oct. 23, 2008	Oct. 22, 2009
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	238141/4	May 13, 2009	May 12, 2010
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	12738/6	May 13, 2009	May 12, 2010
Software ADT.	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA	NA
Turn Table ADT.	TT100.	TT93021703	NA	NA
Turn Table Controller ADT.	SC100.	SC93021703	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 Chamber 3.

3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.

4. The FCC Site Registration No. is 988962.

5. The IC Site Registration No. is IC 7450F-3.



4.1.3 TEST PROCEDURES

- 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 lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

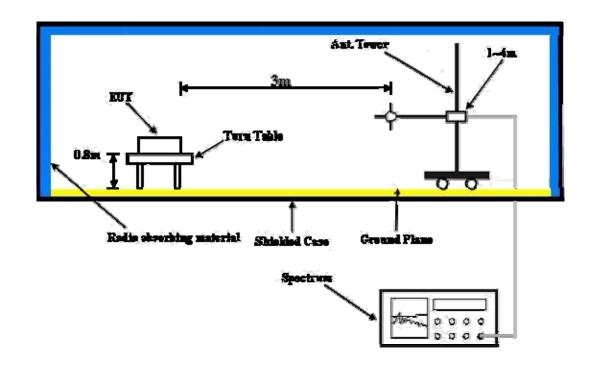
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. All modes of operation were investigated and the worst-case emissions are reported.
- 4. Duty cycle of EUT is 4.5 % defined by client. Pulse Width = 192 uSec, T= 4 mSec.
 192 uSec is based on a 32 bytes (max data packet size) which is the max that the Nordic chip can handle. 32 bytes/4 msec = 8Kbytes/sec = 64kbit/sec. The duty cycle is 192usec/4 msec = 4.5 % The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula: 20 log (Duty cycle) = 20 log (4.5 %) = -26.94 dB

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.



4.1.5 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

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



4.1.7 TEST RESULTS

ABOVE 1GHz DATA

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 0	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1007 hPa	TESTED BY	Lori Chiu	

	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	2390.00	49.96 PK	74.00	-24.04	1.36 H	313	19.31	30.65	
2	2390.00	28.44 AV	54.00	-25.56	1.36 H	313	-2.21	30.65	
3	2400.00	50.01 PK	74.00	-23.99	1.36 H	313	19.32	30.69	
4	2400.00	23.07 AV	54.00	-30.93	1.36 H	313	-7.62	30.69	
5	*2402.00	86.41 PK	114.00	-27.59	1.36 H	313	55.71	30.70	
6	*2402.00	59.47 AV	94.00	-34.53	1.36 H	313	28.77	30.70	
7	4804.00	52.21 PK	74.00	-21.79	1.11 H	41	15.81	36.40	
8	4804.00	25.27 AV	54.00	-28.73	1.11 H	41	-11.13	36.40	
		ANTENNA		/ & TEST DI	STANCE: V	ERTICAL A	T 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	2390.00	48.20 PK	74.00	-25.80	1.26 V	210	17.55	30.65	
2	2390.00	27.72 AV	54.00	-26.28	1.26 V	210	-2.93	30.65	
3	2400.00	48.82 PK	74.00	-25.18	1.26 V	210	18.13	30.69	
4	2400.00	21.88 AV	54.00	-32.12	1.26 V	210	-8.81	30.69	
5	*2402.00	85.22 PK	114.00	-28.78	1.26 V	210	54.52	30.70	
					1 0 0 1 1	210	07.50	30.70	
6	*2402.00	58.28 AV	94.00	-35.72	1.26 V	210	27.58	30.70	
6 7	*2402.00 4804.00	58.28 AV 52.67 PK	94.00 74.00	-35.72 -21.33	1.26 V 1.16 V	210	27.58 16.27	36.40	

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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 39	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1007 hPa	TESTED BY	Lori Chiu	

	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	*2441.00	87.86 PK	114.00	-26.14	1.29 H	305	57.04	30.82		
2	*2441.00	60.92 AV	94.00	-33.08	1.29 H	305	30.10	30.82		
3	4882.00	52.94 PK	74.00	-21.06	1.09 H	39	16.47	36.47		
4	4882.00	26.00 AV	54.00	-28.00	1.09 H	39	-10.47	36.47		
		ANTENNA		/ & TEST DI	STANCE: V	ERTICAL A	T 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	*2441.00	86.65 PK	114.00	-27.35	1.02 V	350	55.83	30.82		
2	*2441.00	59.71 AV	94.00	-34.29	1.02 V	350	28.89	30.82		
3	4882.00	53.38 PK	74.00	-20.62	1.15 V	220	16.91	36.47		
4	4882.00	26.44 AV	54.00	-27.56	1.15 V	220	-10.03	36.47		

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.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 78	FREQUENCY RANGE	1 ~ 25GHz	
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1007 hPa	TESTED BY	Lori Chiu	

	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	*2480.00	88.23 PK	114.00	-25.77	1.30 H	306	57.28	30.95		
2	*2480.00	61.29 AV	94.00	-32.71	1.30 H	306	30.34	30.95		
3	2483.50	43.92 PK	74.00	-30.08	1.30 H	306	12.96	30.96		
4	2483.50	16.98 AV	54.00	-37.02	1.30 H	306	-13.98	30.96		
5	4960.00	53.24 PK	74.00	-20.76	1.10 H	41	16.52	36.72		
6	4960.00	26.30 AV	54.00	-27.70	1.10 H	41	-10.42	36.72		
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	*2480.00	87.24 PK	114.00	-26.76	1.24 V	211	56.29	30.95		
2	*2480.00	60.30 AV	94.00	-33.70	1.24 V	211	29.35	30.95		
3	2483.50	42.93 PK	74.00	-31.07	1.24 V	211	11.97	30.96		
4	2483.50	15.99 AV	54.00	-38.01	1.24 V	211	-14.97	30.96		
5	4960.00	53.84 PK	74.00	-20.16	1.16 V	217	17.12	36.72		
6	4960.00	26.90 AV	54.00	-27.10	1.16 V	217	-9.82	36.72		

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.



BELOW 1GHz WORST-CASE DATA

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	HANNEL Channel 39 FREQUENCY RANGE		Below 1000MHz	
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH 1007 hPa	TESTED BY	Brad Wu	

	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	37.68	20.47 QP	40.00	-19.53	1.25 H	79	5.74	14.72		
2	57.12	19.32 QP	40.00	-20.68	1.25 H	319	6.35	12.96		
3	152.39	19.37 QP	43.50	-24.13	1.25 H	37	5.27	14.10		
4	243.77	15.50 QP	46.00	-30.50	1.50 H	34	2.09	13.41		
5	385.70	18.02 QP	46.00	-27.98	1.50 H	283	0.57	17.45		
6	690.96	23.93 QP	46.00	-22.07	1.50 H	256	-0.88	24.81		
		ANTENNA	POLARITY	& TEST DI	STANCE: V	ERTICAL A	T 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	49.34	22.14 QP	40.00	-17.86	1.50 V	127	8.80	13.34		
2	101.84	20.90 QP	43.50	-22.60	1.25 V	295	9.32	11.58		
3	162.11	23.35 QP	43.50	-20.15	1.50 V	331	9.16	14.19		
4	228.22	17.24 QP	46.00	-28.76	2.00 V	1	4.88	12.36		
5	685.13	23.22 QP	46.00	-22.78	1.25 V	208	-1.45	24.67		
6	858.17	26.56 QP	46.00	-19.44	1.50 V	175	-0.53	27.09		

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.



4.2 BAND EDGES MEASUREMENT

4.2.1 LIMITS OF BAND EDGES MEASUREMENT

Below –50dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
SPECTRUM ANALYZER R&S	FSP40	100040	Jul. 07, 2009	Jul. 06, 2010

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.2.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz and 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots are attached on the following pages.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

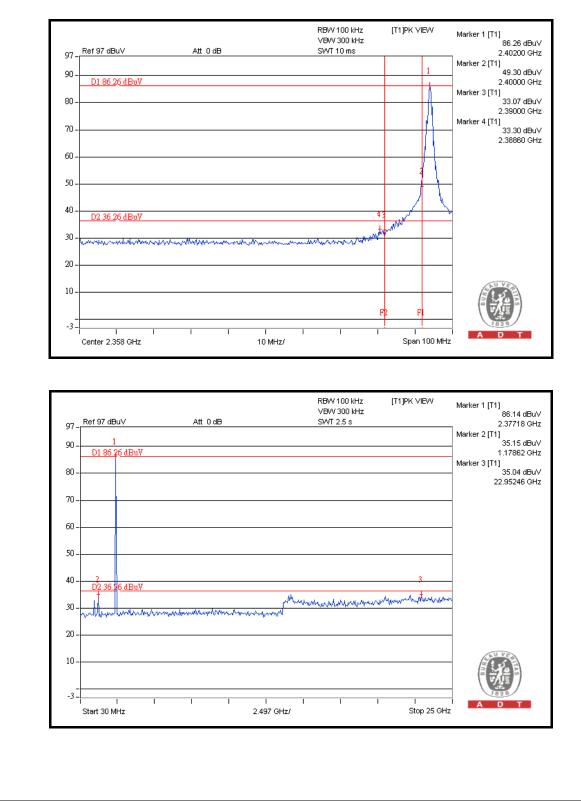
4.2.5 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest and highest channel frequencies individually.



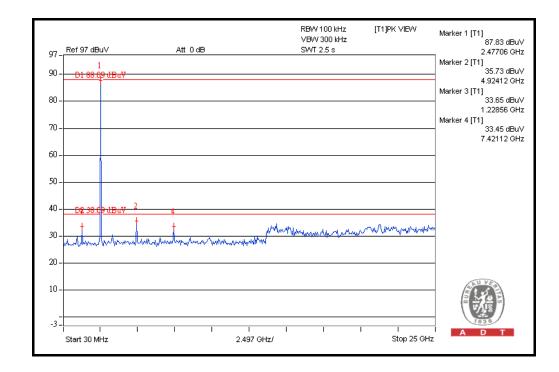
4.2.6 TEST RESULTS

The spectrum plots are attached on the following 4 images. D1 line indicates the highest level, and D2 line indicates the 50dB offset below D1. It shows compliance with the requirement in part 15.249 (d).





97 -	Ref 97 dBuV	Att 0 dB	RBW 100 kHz ∀BW 300 kHz SWT 10 ms	(T1)PK VIEW	Marker 1 [T1] 88.09 dBu∀ 2.47990 GHz
97- 90-	1 D1 \$8.09 dΒαV				Marker 2 [T1] 43.03 dBuV
80 -					2.48350 GHz Marker 3 [T1] 44.30 dBu∨ 2.48370 GHz
70 -					Marker 4 [T1] 30.39 dBuV 2.50000 GHz
60 -					-
50 -					
40 -	D2 38.00 UBuV				-
30 -		a half and the second a	hteretainen kan som skildet som	Amandahahahaa	7
20 -					-
10 -					
	FL	F2			
-3 -	Center 2.5235 GHz	I I I 10 MH:	I I I z/	l Span 100 MHz	A D T





5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



6. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, 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
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA, CSA
R.O.C.	TAF, BSMI, NCC
Netherlands	Telefication
Singapore	GOST-ASIA(MOU)
Russia	CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

<u>www.adt.com.tw/index.5/phtml</u>. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180 Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343 Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:

Tel: 886-3-3183232 Fax: 886-3-3185050

Web Site: <u>www.adt.com.tw</u>

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



7. 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.

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