



# FCC TEST REPORT

**REPORT NO.:** RF960720A04

**MODEL NO.:** M01005-M

**RECEIVED:** July 20, 2007

**TESTED:** July 24 ~ 26, 2007

**ISSUED:** Aug. 3, 2007

**APPLICANT:** ACCO Brands, Inc.

**ADDRESS:** 333 Twin Dolphin Drive, 6th Floor, Redwood Shores, CA, 94065, U.S.A.

**ISSUED BY:** Advance Data Technology Corporation

**LAB LOCATION:** No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou Hsiang 244, Taipei Hsien, Taiwan, R.O.C.

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## 1. CERTIFICATION

**PRODUCT:** Kensington® SlimBlade™ Notebook Set  
**BRAND NAME:** Kensington  
**MODEL NO.:** M01005-M  
**APPLICANT:** ACCO Brands, Inc.  
**TESTED:** July 24 ~ 26, 2007  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**STANDARDS:** FCC Part 15, Subpart C (Section 15.249)  
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 :** Celia Chen , **DATE:** Aug. 3, 2007  
( Celia Chen / Specialist )

**TECHNICAL ACCEPTANCE :** Jun Wu , **DATE:** Aug. 3, 2007  
Responsible for RF ( Jun Wu / Senior Engineer )

**APPROVED BY :** Ken Liu , **DATE:** Aug. 3, 2007  
( Ken Liu / Deputy Manager )

## 2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

<b>APPLIED STANDARD: FCC Part 15, Subpart C (Section 15.249)</b>			
<b>STANDARD SECTION</b>	<b>TEST TYPE AND LIMIT</b>	<b>RESULT</b>	<b>REMARK</b>
15.207	Conducted Emission Test	N/A	Power supply is 3Vdc from batteries
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 12.209	PASS	Minimum passing margin is -5.41dB at 2483.500MHz

### 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:

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

<b>Measurement</b>	<b>Frequency</b>	<b>Uncertainty</b>
Radiated emissions	30MHz ~ 1GHz	3.75 dB
	1GHz ~ 40GHz	2.89 dB

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>EUT</b>	Kensington® SlimBlade™ Notebook Set
<b>MODEL NO.</b>	M01005-M
<b>FCC ID</b>	GV3M01005-M
<b>POWER SUPPLY</b>	1.5Vdc from battery
<b>MODULATION TYPE</b>	GFSK
<b>FREQUENCY RANGE</b>	2402MHz ~ 2474MHz
<b>NUMBER OF CHANNEL</b>	13
<b>ANTENNA TYPE</b>	Printed antenna with -1.15dBi gain
<b>DATA CABLE</b>	N/A
<b>I/O PORTS</b>	N/A
<b>ASSOCIATED DEVICES</b>	N/A

**NOTE:**

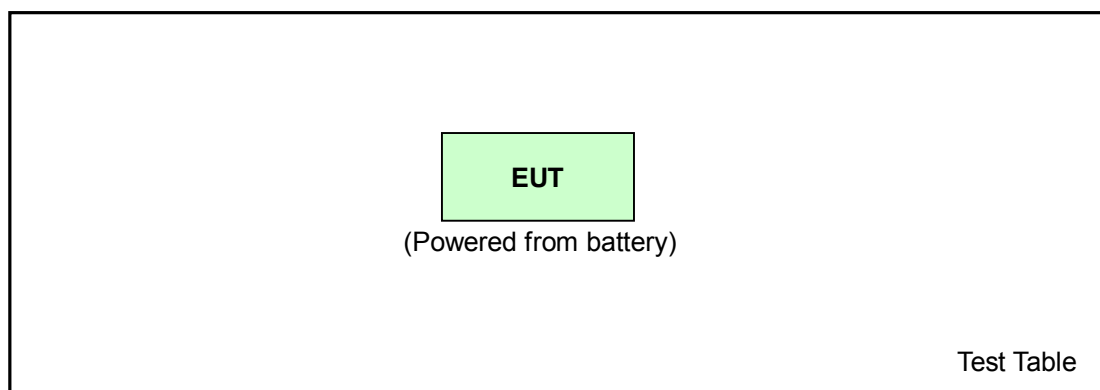
1. The EUT is a wireless mouse, which is a transceiver.
2. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

### 3.2 DESCRIPTION OF TEST MODES

Thirteen channels are provided to this EUT.

Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	2402	8	2444
2	2408	9	2450
3	2414	10	2456
4	2420	11	2462
5	2426	12	2468
6	2432	13	2474
7	2438		

#### 3.2.1 CONFIGURATION OF SYSTEM UNDER TEST



### 3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL:

EUT configure mode	Applicable to				Description
	PLC	RE<1G	RE≥1G	APCM	
-	Note	√	√	√	-

Where PLC: Power Line Conducted Emission RE<1G RE: Radiated Emission below 1GHz  
 RE≥1G: Radiated Emission above 1GHz APCM: Antenna Port Conducted Measurement  
 Note: No need to concern of Conducted Emission due to the EUT is powered by battery.

#### **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 CHANNEL	TESTED CHANNEL	RADIO TECHNOLOGY	MODULATION TYPE
1 to 13	13	DSSS	GFSK

#### **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 CHANNEL	TESTED CHANNEL	RADIO TECHNOLOGY	MODULATION TYPE
1 to 13	1, 7, 13	DSSS	GFSK

#### **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 CHANNEL	TESTED CHANNEL	RADIO TECHNOLOGY	MODULATION TYPE
1 to 13	1, 13	DSSS	GFSK



### **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. (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 CONDUCTED EMISSION MEASUREMENT

N/A

### 4.2 RADIATED EMISSION MEASUREMENT

#### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

**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.

## 4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	May 09, 2008
HP Preamplifier	8449B	3008A01924	Sep. 05, 2007
HP Preamplifier	8449B	3008A01638	Sep. 17, 2007
ROHDE & SCHWARZ TEST RECEIVER	ESI7	836697/012	Oct. 24, 2007
Schwarzbeck Antenna	VULB 9168	137	Oct. 01, 2007
Schwarzbeck Antenna	VHBA 9123	480	Apr. 18, 2008
EMCO Horn Antenna	3115	6714	Oct. 24, 2007
EMCO Horn Antenna	3115	9312-4192	Apr. 19, 2008
ADT. Turn Table	TT100	0306	NA
ADT. Tower	AT100	0306	NA
Software	ADT_Radiated_V 7.6.15	NA	NA
SUHNER RF cable	SF104-26.5	CABLE-CH6-17m-01	Dec. 11, 2007
ROHDE & SCHWARZ Spectrum Analyzer	FSP 40	100036	Mar. 13, 2008

- 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 horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
  3. The test was performed in ADT Chamber No. 6.
  4. The Industry Canada Reference No. IC 3789-6.

### 4.2.3 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. 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 method or average method as specified and then reported in data sheet.

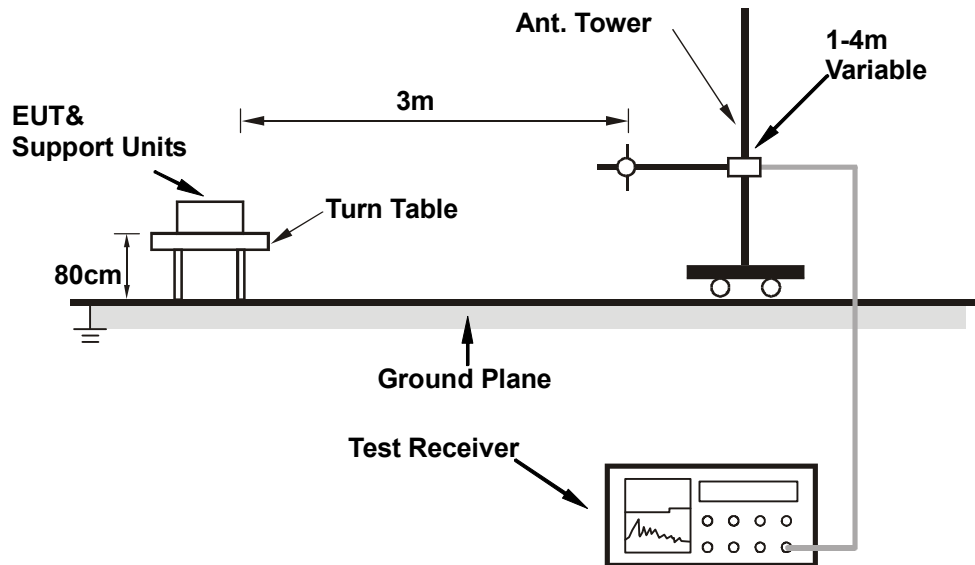
#### NOTE:

1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation

## 4.2.5 TEST SETUP



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

## 4.2.6 EUT OPERATING CONDITIONS

Set the EUT under transmission condition continuously at specific channel frequency.

## 4.2.7 TEST RESULTS

### RADIATED WORST CASE DATA: BELOW 1GHz

<b>MODULATION TYPE</b>	GFSK	<b>CHANNEL</b>	13
<b>INPUT POWER</b>	1.5Vdc	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 68%RH, 1001Pa	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>TESTED BY</b>	Jun 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	745.351	26.17 QP	46.00	-19.83	1.24 H	178	-1.63	27.80
2	766.733	26.39 QP	46.00	-19.61	1.17 H	154	-1.67	28.06
3	811.443	26.36 QP	46.00	-19.64	1.04 H	61	-1.95	28.31
4	825.050	27.12 QP	46.00	-18.88	1.15 H	310	-1.36	28.48
5	873.647	27.39 QP	46.00	-18.61	1.09 H	283	-1.75	29.14
6	900.862	27.43 QP	46.00	-18.57	1.14 H	220	-2.12	29.55
7	931.964	28.48 QP	46.00	-17.52	1.02 H	292	-1.41	29.89
8	955.291	29.86 QP	46.00	-16.14	1.00 H	142	-0.26	30.11

### 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	39.719	24.71 QP	40.00	-15.29	1.00 V	349	10.25	14.46
2	66.934	20.52 QP	40.00	-19.48	1.00 V	271	7.30	13.22
3	751.182	25.33 QP	46.00	-20.67	1.05 V	91	-2.68	28.01
4	778.397	27.03 QP	46.00	-18.97	1.14 V	154	-1.07	28.10
5	813.387	26.68 QP	46.00	-19.32	1.32 V	319	-1.65	28.33
6	823.106	26.35 QP	46.00	-19.65	1.28 V	343	-2.10	28.45
7	885.311	27.98 QP	46.00	-18.02	1.19 V	127	-1.34	29.32

- 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)
  - 3The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.

**RADIATED WORST CASE DATA: ABOVE 1GHz**

<b>MODULATION TYPE</b>	GFSK	<b>CHANNEL</b>	1
<b>INPUT POWER</b>	1.5Vdc	<b>FREQUENCY RANGE</b>	1 ~ 25GHz
<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 67%RH, 1001Pa	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>TESTED BY</b>	Jun 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	2390.000	61.00 PK	74.00	-13.00	1.33 H	138	26.58	34.42
2	2390.000	48.20 AV	54.00	-5.80	1.33 H	138	13.78	34.42
3	*2402.000	93.73 PK	114.00	-20.27	1.33 H	138	59.29	34.44
4	*2402.000	69.16 AV	94.00	-24.84	1.33 H	138	34.72	34.44
5	4804.000	51.15 PK	74.00	-22.85	1.06 H	227	9.76	41.39
6	4804.000	37.59 AV	54.00	-16.41	1.06 H	227	-3.80	41.39

**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	2390.000	59.89 PK	74.00	-14.11	1.03 V	206	25.47	34.42
2	2390.000	48.09 AV	54.00	-5.91	1.03 V	206	13.67	34.42
3	*2402.000	84.49 PK	114.00	-29.51	1.03 V	206	50.05	34.44
4	*2402.000	64.85 AV	94.00	-29.15	1.03 V	206	30.41	34.44
5	4804.000	51.91 PK	74.00	-22.09	1.00 V	168	10.52	41.39
6	4804.000	37.51 AV	54.00	-16.49	1.00 V	168	-3.88	41.39

- 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

<b>MODULATION TYPE</b>	GFSK	<b>CHANNEL</b>	7
<b>INPUT POWER</b>	1.5Vdc	<b>FREQUENCY RANGE</b>	1 ~ 25GHz
<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 67%RH, 1001Pa	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>TESTED BY</b>	Jun 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	*2438.000	94.59 PK	114.00	-19.41	1.29 H	143	60.07	34.52
2	*2438.000	69.78 AV	94.00	-24.22	1.29 H	143	35.26	34.52
3	4876.000	52.08 PK	74.00	-21.92	1.05 H	221	10.50	41.58
4	4876.000	38.26 AV	54.00	-15.74	1.05 H	221	-3.32	41.58

#### 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	*2438.000	85.00 PK	114.00	-29.00	1.00 V	208	50.48	34.52
2	*2438.000	66.71 AV	94.00	-27.29	1.00 V	208	32.19	34.52
3	4876.000	51.67 PK	74.00	-22.33	1.07 V	59	10.09	41.58
4	4876.000	38.20 AV	54.00	-15.80	1.07 V	59	-3.38	41.58

- 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

<b>MODULATION TYPE</b>	GFSK	<b>CHANNEL</b>	13
<b>INPUT POWER</b>	1.5Vdc	<b>FREQUENCY RANGE</b>	1 ~ 25GHz
<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 67%RH, 1001Pa	<b>DETECTOR FUNCTION</b>	Peak(PK) Average (AV)
<b>TESTED BY</b>	Jun 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	*2474.000	94.67 PK	114.00	-19.33	1.28 H	151	60.08	34.59
2	*2474.000	69.91 AV	94.00	-24.09	1.28 H	151	35.32	34.59
3	2483.500	65.52 PK	74.00	-8.48	1.28 H	151	30.91	34.61
<b>4</b>	<b>2483.500</b>	<b>48.59 AV</b>	<b>54.00</b>	<b>-5.41</b>	<b>1.28 H</b>	<b>151</b>	<b>13.98</b>	<b>34.61</b>
5	4948.000	52.59 PK	74.00	-21.41	1.00 H	165	10.82	41.77
6	4948.000	38.15 AV	54.00	-15.85	1.00 H	165	-3.62	41.77

#### 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	*2474.000	81.91 PK	114.00	-32.09	1.00 V	263	47.32	34.59
2	*2474.000	63.62 AV	94.00	-30.38	1.00 V	263	29.03	34.59
3	2483.500	61.64 PK	74.00	-12.36	1.00 V	263	27.03	34.61
4	2483.500	48.13 AV	54.00	-5.87	1.00 V	263	13.52	34.61
5	4948.000	52.88 PK	74.00	-21.12	1.04 V	245	11.11	41.77
6	4948.000	38.72 AV	54.00	-15.28	1.04 V	245	-3.05	41.77

- 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



### 4.3 BAND EDGES MEASUREMENT

#### 4.3.1 LIMITS OF BAND EDGES MEASUREMENT

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

#### 4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSP 40	100036	Mar. 13, 2008

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

#### 4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low loss cable. Set both RBW and VBW of spectrum analyzer to 100 kHz and 100 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.

#### 4.3.4 DEVIATION FROM TEST STANDARD

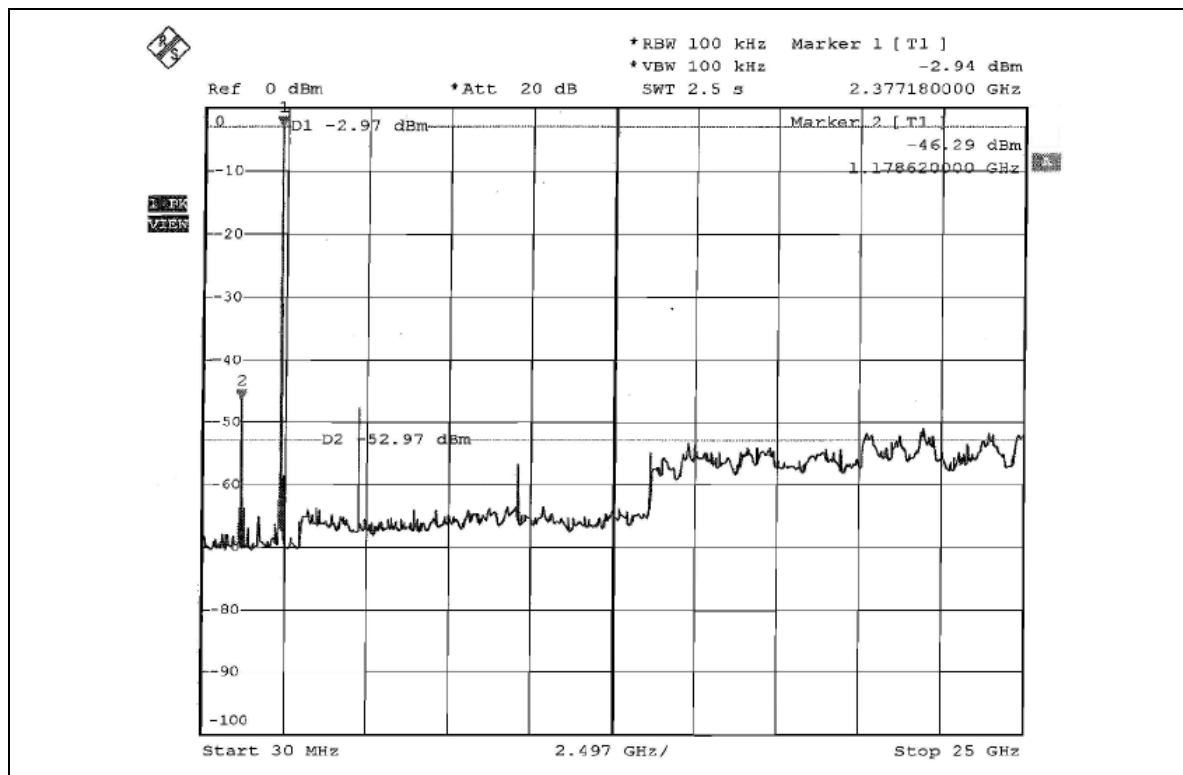
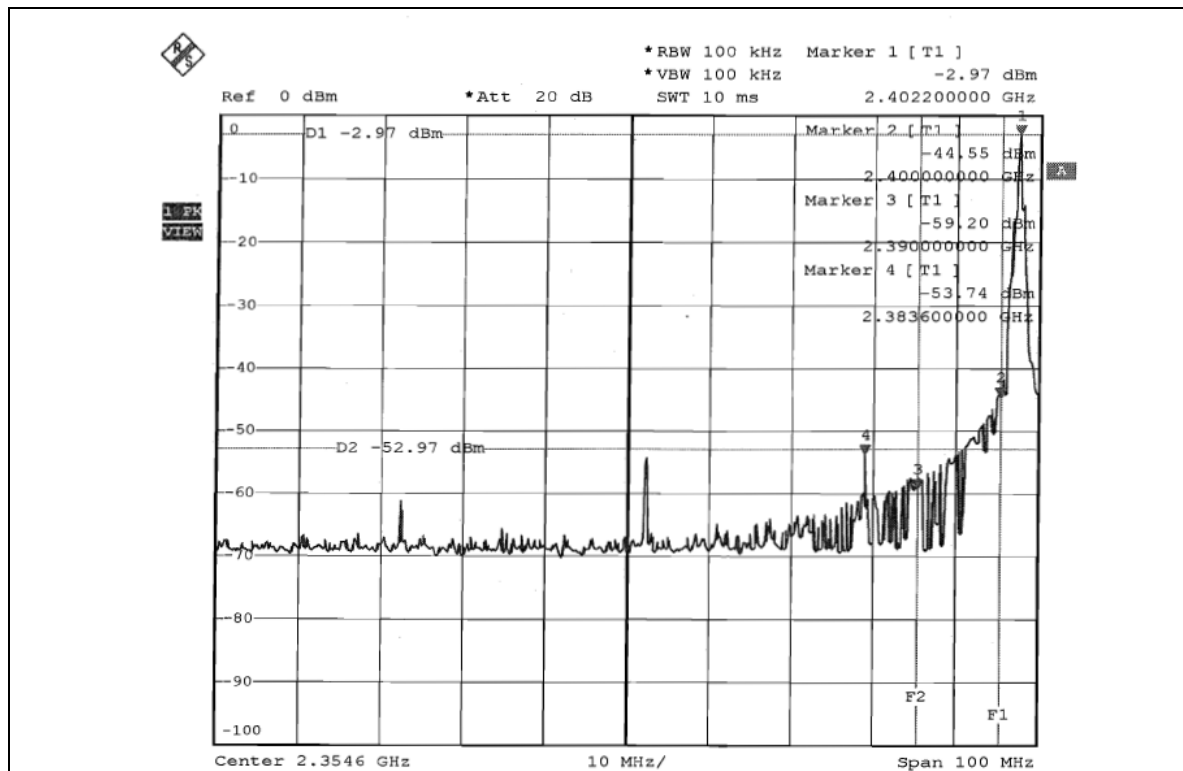
No deviation

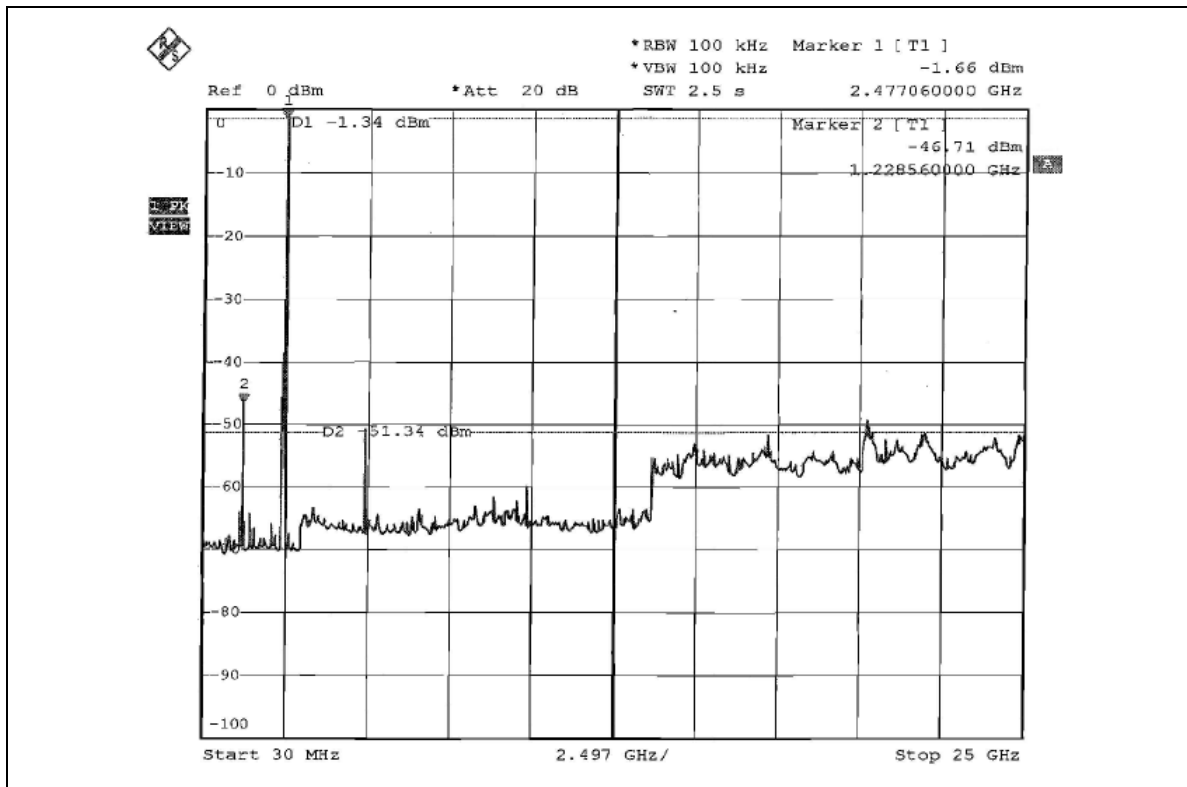
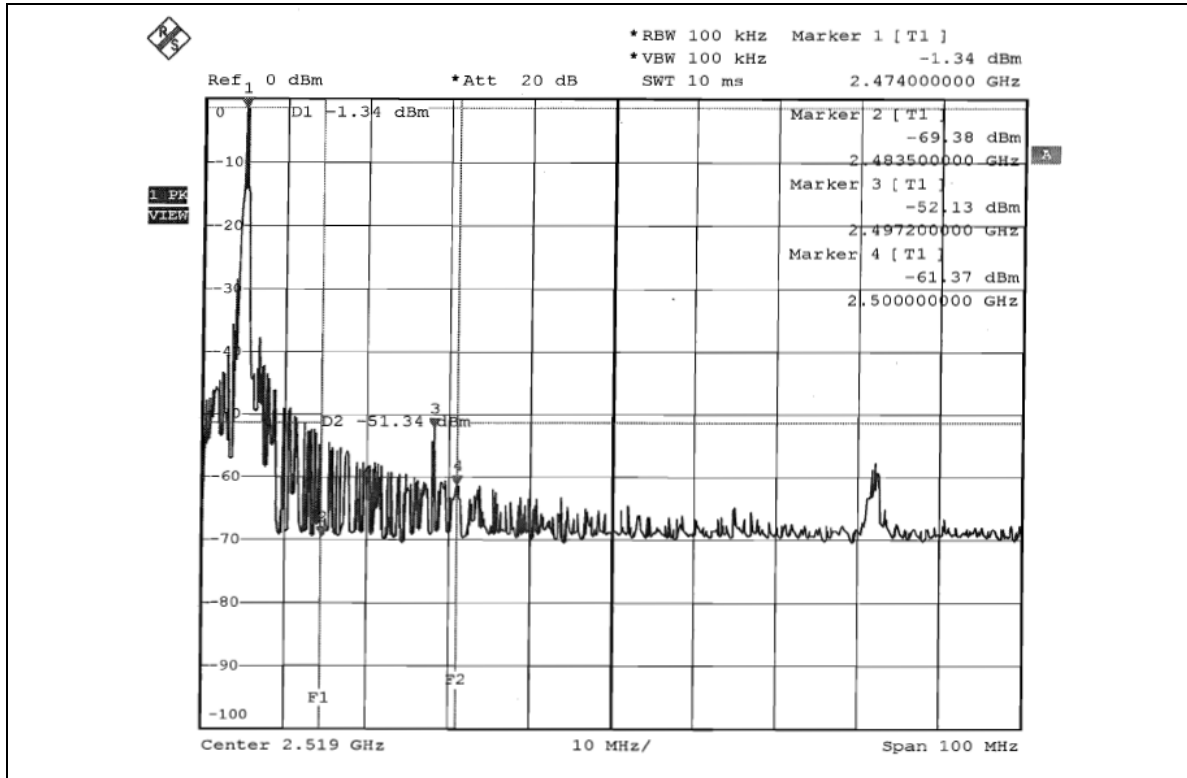
#### 4.3.5 EUT OPERATING CONDITION

Same as Item 4.2.6

#### 4.3.6 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).







## 5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



## 6. 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.

<b>USA</b>	FCC, UL, A2LA
<b>Germany</b>	TUV Rheinland
<b>Japan</b>	VCCI
<b>Norway</b>	NEMKO
<b>Canada</b>	INDUSTRY CANADA, CSA
<b>R.O.C.</b>	TAF, BSMI, NCC
<b>Netherlands</b>	Telefication
<b>Singapore</b>	PSB, GOST-ASIA(MOU)
<b>Russia</b>	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](http://www.adt.com.tw/index.5/phtml). If you have any comments, please feel free to contact us at the following:

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**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

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



## **7. APPENDIX A – MODIFICATIONS FRCORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

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