

# **FCC TEST REPORT**

**REPORT NO.:** RF950530A07

**MODEL NO.:** 1069

**RECEIVED**: May 30, 2006 **TESTED**: July 7, 2006 **ISSUED**: July 11, 2006

**APPLICANT: MICROSOFT CORPORATION** 

ADDRESS: ONE MICROSOFT WAY REDMOND, WA 98052-

6399, 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: Microsoft® Presenter 3000

**BRAND NAME:** Microsoft®

**MODEL NO.:** 1069

**TEST SAMPLE:** ENGINEERING SAMPLE

**APPLICANT: MICROSOFT CORPORATION** 

**TESTED:** July 7, 2006

**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.

TECHNICAL

: <u>Ken Līn</u>, **DATE**: July 11, 2006 ACCEPTANCE

Responsible for RF

APPROVED BY: Gary Chang / Supervisor) , DATE: July 11, 2006



# 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	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 -4.12dB at 4836.00MHz			

# 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:

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

Measurement	Uncertainty	
Radiated emissions	3.55 dB	



# 3. GENERAL INFORMATION

# 3.1 GENERAL DESCRIPTION OF EUT

EUT	Microsoft® Presenter 3000
MODEL NO.	1069
FCC ID	C3K1069
POWER SUPPLY	3.0Vdc from batteries
MODULATION TYPE	GFSK
FREQUENCY RANGE	2402, 2414, 2418, 2462, 2466MHz
NUMBER OF CHANNEL	5
ANTENNA TYPE	Integrated Antenna with –2.76dBi gain
DATA CABLE	N/A
I/O PORT	N/A

# NOTE:

- 1. The EUT is a wireless presenter, which is a transceiver.
- 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.

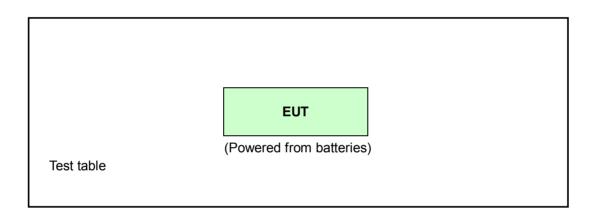


# 3.2 DESCRIPTION OF TEST MODES

Five channels are provided to this EUT:

CHANNEL	FREQ. (MHz)
1	2402
2	2414
3	2418
4	2462
5	2466

# 3.2.1 CONFIGURATION OF SYSTEM UNDER TEST





# 3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT Configure	Applicable to				Description	
Mode	PLC	RE<1G	RE≥1G	APCM	Bescription	
_	Note	V	V	V	N/A	

Where PLC: Power Line Conducted Emission

RE<1G: Radiated Emission below 1GHz RE≥1G: Radiated Emission above 1GHz APCM: Antenna Port Conducted Measurement

Note: Conducted RF measurement is in independent of power supply.

#### **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, X, Y, Z Axis 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	Axis
Channel	Channel	Type	
1 to 5	5	GFSK	Υ

#### **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, X, Y, Z Axis and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

Availa Char		Tested Channel	Modulation Type	Axis
1 to	5	1, 3, 5	GFSK	Υ

### **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
Channel	Channel	Type
1 to 5	1, 5	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 (Section 15.249) ANSI C63.4-2003

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

**NOTE:** The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

# 3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent.



# 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.



# **4.2.2TEST INSTRUMENTS**

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	May 21, 2007
HP Preamplifier	8449B	3008A01924	Sep. 06, 2006
HP Preamplifier	8449B	3008A01638	Sep. 21, 2006
ROHDE & SCHWARZ TEST RECEIVER	ESI7	836697/012	Nov. 01, 2006
Schwarzbeck Antenna	VULB 9168	137	Feb. 21, 2007
Schwarzbeck Antenna	VHBA 9123	480	Mar. 30, 2007
EMCO Horn Antenna	3115	6714	Oct. 26, 2006
EMCO Horn Antenna	3115	9312-4192	Mar. 14, 2007
ADT. Turn Table	TT100	0306	NA
ADT. Tower	AT100	0306	NA
Software	ADT_Radiated_V 7.6.011	NA	NA
TIMES RF cable	LL142	CABLE-CH6-01	Dec. 19, 2006
ROHDE & SCHWARZ Spectrum Analyzer	FSP 40	100036	Mar. 16, 2007

**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 meters 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 the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

#### NOTE:

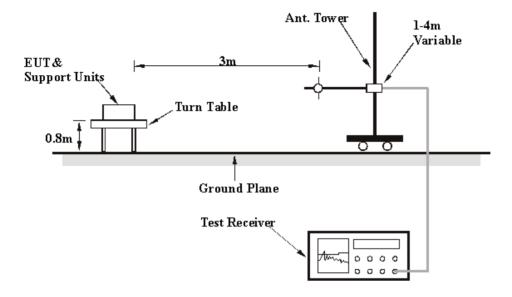
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection (PK) at frequency above 1GHz.

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation.



# **4.2.5TEST 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**

MODULATION TYPE	GFSK	CHANNEL	5
INPUT POWER	3Vdc	FREQUENCY RANGE	Below 1 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa	DETECTOR FUNCTION	Quasi-Peak
TESTED BY	Jamison Chan		

	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	716.19	24.76 QP	46.00	-21.24	1.50 H	154	-1.58	26.35		
2	784.23	26.09 QP	46.00	-19.91	1.00 H	196	-1.87	27.96		
3	828.94	26.46 QP	46.00	-19.54	1.50 H	214	-1.82	28.28		
4	883.37	27.56 QP	46.00	-18.44	1.75 H	295	-1.62	29.18		
5	916.41	27.00 QP	46.00	-19.00	3.00 H	112	-2.92	29.91		
6	947.52	28.95 QP	46.00	-17.05	1.00 H	292	-1.67	30.62		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
	Freg.	Emission	Limit	Margin	Antenna	Table	Raw	Correction			
No.	(MHz)	Level	-	_	Height	Angle	Value	Factor			
	(IVIITZ)	(dBuV/m) (dB)	(m)	(Degree)	(dBuV)	(dB/m)					
1	751.18	25.16 QP	46.00	-20.84	2.00 V	37	-2.65	27.81			
2	782.28	25.78 QP	46.00	-20.22	1.75 V	352	-2.18	27.95			
3	828.94	26.14 QP	46.00	-19.86	3.00 V	235	-2.14	28.28			
4	865.87	26.93 QP	46.00	-19.07	3.00 V	172	-1.88	28.80			
5	912.53	27.64 QP	46.00	-18.36	3.00 V	343	-2.18	29.83			
6	959.18	29.26 QP	46.00	-16.74	3.00 V	67	-1.35	30.61			

- 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: ABOVE 1GHz**

MODULATION TYPE	GFSK	CHANNEL	1
INPUT POWER	3Vdc	FREQUENCY RANGE	1 ~ 25 GHz
ENVIRONMENTAL	25 deg. C, 65% RH,	DETECTOR	Peak (PK)
TESTED BY	Jamison Chan	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction			
No.	(MHz)	Level		J	Height	Angle	Value	Factor			
	(IVITIZ)	(dBuV/m)	(ubuv/III)	(dBuV/m) (dB)		(Degree)	(dBuV)	(dB/m)			
1	2323.00	60.01 PK	74.00	-13.99	1.29 H	129	23.83	36.18			
1	2323.00	48.21 AV	54.00	-5.79	1.29 H	129	12.03	36.18			
2	*2402.00	79.88 PK	114.00	-34.12	1.29 H	129	43.65	36.23			
2	*2402.00	58.88 AV	94.00	-35.12	1.29 H	129	22.65	36.23			
3	4804.00	65.98 PK	74.00	-8.02	1.09 H	92	21.47	44.51			
3	4804.00	44.98 AV	54.00	-9.02	1.09 H	92	0.47	44.51			

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction		
No.	(MHz)	Level	(dBuV/m)	(dB)	Height	Angle	Value	Factor		
	(IVITZ)	(dBuV/m)	(ubu v/III)	(ub)	(m)	(Degree)	(dBuV)	(dB/m)		
1	2323.00	59.16 PK	74.00	-14.84	1.05 V	88	22.98	36.18		
1	2323.00	48.22 AV	54.00	-5.78	1.05 V	88	12.04	36.18		
2	*2402.00	74.66 PK	114.00	-39.34	1.05 V	88	38.43	36.23		
2	*2402.00	53.66 AV	94.00	-40.34	1.05 V	88	17.43	36.23		
3	4804.00	68.70 PK	74.00	-5.30	1.36 V	108	24.19	44.51		
3	4804.00	47.70 AV	54.00	-6.30	1.36 V	108	3.19	44.51		

- 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



MODULATION TYPE	GFSK	CHANNEL	3
INPUT POWER	3Vdc	FREQUENCY RANGE	1 ~ 25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Jamison Chan	I GNOTION	Average (Av)

	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	*2418.00	78.54 PK	114.00	-35.46	1.26 H	126	42.27	36.27			
1	*2418.00	57.54 AV	94.00	-36.46	1.26 H	126	21.27	36.27			
2	4836.00	67.61 PK	74.00	-6.39	1.00 H	161	23.17	44.44			
2	4836.00	46.61 AV	54.00	-7.39	1.00 H	161	2.17	44.44			

	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	*2418.00	74.49 PK	114.00	-39.51	1.07 V	86	38.22	36.27			
1	*2418.00	53.49 AV	94.00	-40.51	1.07 V	86	17.22	36.27			
2	4836.00	69.88 PK	74.00	-4.12	1.36 V	90	25.44	44.44			
2	4836.00	48.88 AV	54.00	-5.12	1.36 V	90	4.44	44.44			

- 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



MODULATION TYPE	GFSK	CHANNEL	5
INPUT POWER	3Vdc	FREQUENCY RANGE	1 ~ 25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 65% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Jamison Chan	i ditalian	/ Weldge (/W)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
	Freq.	Emission	Limit	Margin	Antenna	Table	Raw	Correction			
No.	•	Level		•	Height	Angle	Value	Factor			
	(MHz)	(dBuV/m)	(dBuV/m) (dB)		(m)	(Degree)	(dBuV)	(dB/m)			
1	*2466.00	78.93 PK	114.00	-35.07	1.21 H	119	42.55	36.38			
1	*2466.00	57.93 AV	94.00	-36.07	1.21 H	119	21.55	36.38			
2	2491.00	59.80 PK	74.00	-14.20	1.21 H	119	23.37	36.43			
2	2491.00	48.23 AV	54.00	-5.77	1.21 H	119	11.80	36.43			
3	4932.00	66.88 PK	74.00	-7.12	1.06 H	93	22.52	44.36			
3	4932.00	45.88 AV	54.00	-8.12	1.06 H	93	1.52	44.36			

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
	Freg.	Emission	Limit	Margin	Antenna	Table	Raw	Correction			
No.	(MHz)	Level	-	_	Height	Angle	Value	Factor			
	(IVITZ)	(dBuV/m)	(dBuV/m) (dB)	(ub)	(m)	(Degree)	(dBuV)	(dB/m)			
1	*2466.00	73.79 PK	114.00	-40.21	1.05 V	84	37.41	36.38			
1	*2466.00	52.79 AV	94.00	-41.21	1.05 V	84	16.41	36.38			
2	2491.00	59.89 PK	74.00	-14.11	1.05 V	84	23.46	36.43			
2	2491.00	48.53 AV	54.00	-5.47	1.05 V	84	12.10	36.43			
3	4932.00	68.45 PK	74.00	-5.55	1.09 V	81	24.09	44.36			
3	4932.00	47.45 AV	54.00	-6.55	1.09 V	81	3.09	44.36			

- 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. 16. 2007

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

### **4.3.3TEST 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 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.

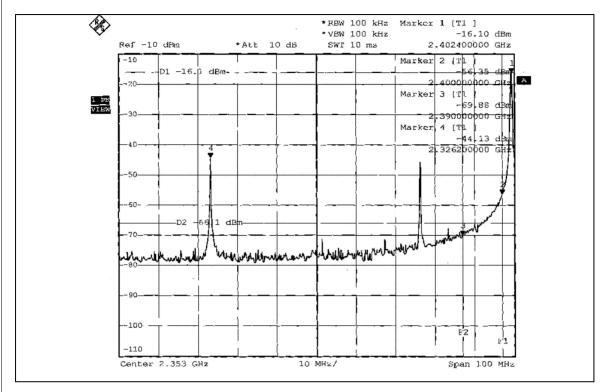
#### 4.3.5 EUT OPERATING CONDITION

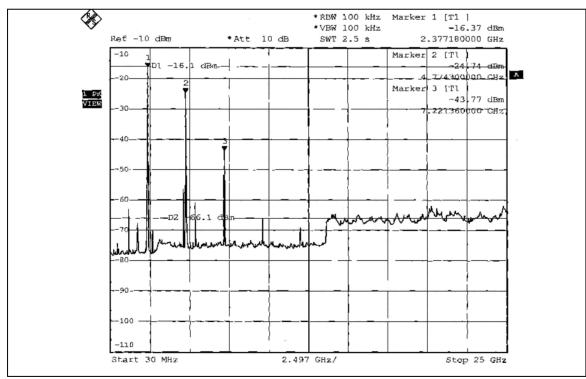
Same as Item 4.2.6.

#### 4.3.6TEST RESULTS

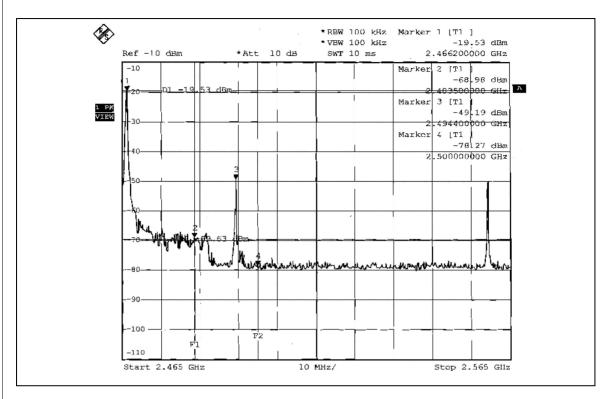
The spectrum plots are attached on the following 4 images. D1 line indicates the highest level, and D2 line indicates the 50dB offset below D1. It shows compliance with the requirement in part 15.249 (d).

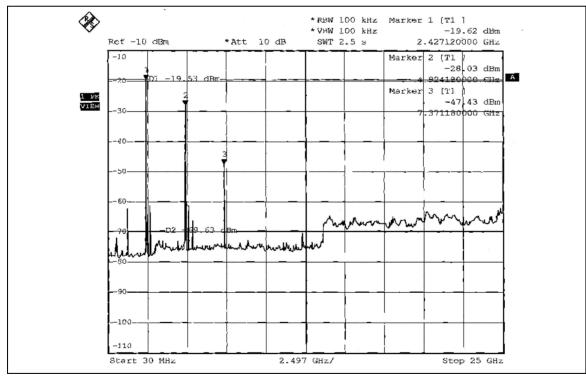














### 6. INFORMATION ON THE TESTING LABORATORIES

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.

USA FCC, UL, A2LA TUV Rheinland

Japan VCCI Norway NEMKO

Canada INDUSTRY CANADA, CSA

R.O.C. CNLA, BSMI, NCC

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

Linko EMC/RF Lab Hsin Chu EMC/RF Lab

Tel: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26051924 Fax: 886-3-5935342

# Hwa Ya EMC/RF/Safety Telecom Lab

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

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.