



FCC TEST REPORT

REPORT NO.: RF901029R06
MODEL NO.: Wireless 2.4G TwinTouch+
RECEIVED: Oct. 30, 2001
TESTED: Nov. 5, 2001

APPLICANT: KYE SYSTEMS CORP.

ADDRESS: NO.492, SEC.5, CHUNG HSIN RD., SAN CHUNG,
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ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: 47 14th Lin, Chia Pau Tsuen, Linkou Hsiang, Taipei,
Taiwan, R.O.C.

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ILAC MRA
0528



Lab Code: 200102-0



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1 CERTIFICATION

PRODUCT : Wireless Keyboard
BRAND NAME : Genius
MODEL NO : Wireless 2.4G TwinTouch+
APPLICANT : KYE SYSTEMS CORP.
STANDARDS : 47 CFR Part 15, Subpart C(15.249)
ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from Nov. 5, 2001. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

TESTED BY: Gary Chang, **DATE:** Nov. 15, 2001
Gary Chang

CHECKED BY: Anna Kuo, **DATE:** Nov. 15, 2001
Anna Kuo

APPROVED BY: Alan Lane, **DATE:** Nov. 15, 2001
Dr. Alan Lane
Manager

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: 47 CFR Part 15, Subpart C			
STANDARD PARAGRAPH	TEST TYPE	RESULT	REMARK
15.107	Conducted Emission Test	NA	Power supply is 3VDC from batteries
15.227	Radiated Emission Test	PASS	Minimum passing margin is -3.90 dBuV at 9920.00 MHz

NOTE: The receiver part to communicate with the EUT has been verified to comply with FCC Part 15, Subpart B, Class B (DoC). The test report can be provided upon request.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless Keyboard
MODEL NO.	Wireless 2.4G TwinTouch+
POWER SUPPLY	3VDC from battery
MODULATION TYPE	FSK
CARRIER FREQUENCY OF EACH CHANNEL	2405MHz, 2410 ~ 2480MHz
BANDWIDTH OF EACH CHANNEL	5MHz
NUMBER OF CHANNEL	16
ANTENNA TYPE	Integral antenna
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT is the transmitter part of a Wireless Keyboard.
2. For more detailed features description of the EUT, please refer to the manufacturer's specifications or the User's Manual.

3.2 DESCRIPTION OF TEST MODES

All channels are listed in the following table:

Channel	Frequency	Channel	Frequency
1	2405 MHz	2	2410 MHz
3	2415 MHz	4	2420 MHz
5	2425 MHz	6	2430 MHz
7	2435 MHz	8	2440MHz
9	2445 MHz	10	2450 MHz
11	2455 MHz	12	2460 MHz
13	2465 MHz	14	2470 MHz
15	2475 MHz	16	2480 MHz

NOTE: 1. Below 1 GHz, channel 1, 8, 16 were pre-tested in chamber. Channel 16, the worst case, were chosen for the final test.

2. Above 1 GHz, channel 1, 8, 16 were chosen for the final test.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is the transmitter part of a Wireless Keyboard. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC CFR 47 Part 15, Subpart C(15.249)

ANSI C63.4-1992

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

3.4 DESCRIPTION OF SUPPORT UNITS

NA

4 TEST PROCEDURE AND RESULT

4.1 CONDUCTED EMISSION MEASUREMENT

NA

4.1 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

According to 15.249 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
2400 – 2483.5	114	94

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:

Other Frequencies (MHz)	Field Strength of Fundamental	
	uV/meter	dBuV/meter
30-88	100	40.0
88-216	150	43.5
216-960	200	46.0
Above 960	500	54.0

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
HP Spectrum Analyzer	8590L	3544A01176	May 7, 2002
* HP Preamplifier	8447D	2944A08119	July 11, 2002
* HP Preamplifier	8449B	3008A01201	Dec. 13, 2001
* HP Preamplifier	8449B	3008A01292	Aug. 21, 2002
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Jan. 25, 2002
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 23, 2001
* CHASE BILOG Antenna	CBL6112A	2221	Aug. 2, 2002
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	July 6, 2002
* EMCO Horn Antenna	3115	9312-4192	April 15, 2002
* EMCO Turn Table	1060	1115	NA
* SHOSHIN Tower	AP-4701	A6Y005	NA
* Software	AS61D4	NA	NA
* ANRITSU RF Switches	MP59B	M35046	Aug. 2, 2002
* TIMES RF cable	LMR-600	CABLE-ST5-01	Aug. 2, 2002
Open Field Test Site	Site 5	ADT-R05	July 28, 2002
VCCI Site Registration No.	Site 5	R-1039	NA

NOTE: 1. The measurement uncertainty is less than +/- 3.0dB, which is calculated as per the NAMAS document NIS81.

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

3. "*" = These equipment are used for the final measurement.

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



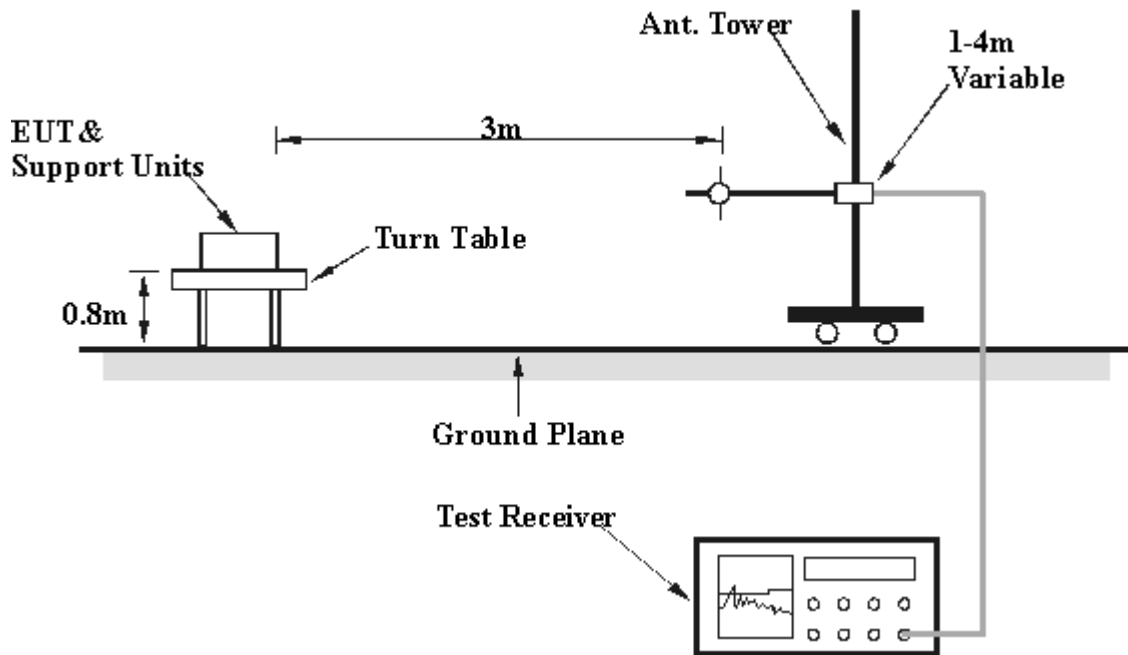
4.2.3 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. 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 Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 300 Hz for Average detection (AV) at frequency above 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

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



4.2.6 TEST RESULT

EUT	Wireless Keyboard	MODEL	Wireless 2.4G TwinTouch+
FREQUENCY RANGE	30-1000 MHz		
INPUT POWER	3VDC	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25 deg. C, 70 % RH, 1050 hPa	TESTED BY: James Lee	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	120.00	29.7 QP	43.50	-13.80	1.79H	352	17.00	11.65	1.08	0.00	-12.73
2	144.00	28.5 QP	43.50	-15.00	1.10H	51	16.70	10.58	1.18	0.00	-11.76
3	245.00	30.4 QP	46.00	-15.60	1.52H	249	17.10	11.70	1.64	0.00	-13.34
4	258.00	30.9 QP	46.00	-15.10	1.01H	13	16.40	12.82	1.68	0.00	-14.51
5	282.00	31.5 QP	46.00	-14.50	1.70H	25	17.00	12.77	1.78	0.00	-14.55
6	305.00	30.2 QP	46.00	-15.80	1.51H	59	15.00	13.28	1.89	0.00	-15.17

- REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
 2. Correction Factor(dB) = Pre-Amplifier Factor (dB) - Antenna Factor (dB) - Cable Factor (dB)
 3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
 4. The other emission levels were very low against the limit.
 5. Margin value = Emission level– Limit value.



EUT	Wireless Keyboard	MODEL	Wireless 2.4G TwinTouch+
FREQUENCY RANGE	30-1000 MHz		
INPUT POWER	3VDC	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25 deg. C, 70 % RH, 1050 hPa	TESTED BY: James Lee	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
1	120.00	30.7 QP	43.50	-12.80	1.19V	320	18.00	11.65	1.08	0.00	-12.73
2	144.10	29.3 QP	43.50	-14.20	1.02V	288	17.50	10.58	1.18	0.00	-11.76
3	240.00	28.1 QP	46.00	-17.90	1.24V	93	15.10	11.41	1.62	0.00	-13.04
4	244.80	30.0 QP	46.00	-16.00	1.37V	221	16.70	11.70	1.64	0.00	-13.34
5	282.40	32.1 QP	46.00	-13.90	1.30V	146	17.60	12.77	1.78	0.00	-14.55
6	302.00	29.1 QP	46.00	-16.90	1.00V	87	14.00	13.23	1.89	0.00	-15.13

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
 2. Correction Factor(dB) = Pre-Amplifier Factor (dB) - Antenna Factor (dB) - Cable Factor (dB)
 3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
 4. The other emission levels were very low against the limit.
 5. Margin value = Emission level– Limit value.



EUT	Wireless Keyboard	MODEL	Wireless 2.4G TwinTouch+
MODE	Channel 1	FREQUENCY RANGE	Above 1 GHz
INPUT POWER	3VDC	DETECTOR FUNCTION	Peak / Average
ENVIRONMENTAL CONDITIONS	25 deg. C, 70 % RH, 1050 hPa	TESTED BY: James Lee	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
*1	2405.00	81.3 Av	94.00	-12.70	1.38H	62	49.05	27.11	5.10	0.00	-32.21
*2	2405.00	84.2 pk	114.00	-29.80	1.38H	62	52.00	27.11	5.10	0.00	-32.21
3	4810.00	49.0 pk	74.00	-25.00	1.41H	163	45.00	31.43	7.23	34.63	-4.02
4	7215.00	51.5 pk	74.00	-22.50	1.53H	135	41.00	36.01	9.20	34.68	-10.53

- REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
 2. Correction Factor(dB) = Pre-Amplifier Factor (dB) - Antenna Factor (dB) - Cable Factor (dB)
 3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
 4. The other emission levels were very low against the limit.
 5. Margin value = Emission level– Limit value.
 6. “*” = Fundamental frequency



EUT	Wireless Keyboard	MODEL	Wireless 2.4G TwinTouch+
MODE	Channel 1	FREQUENCY RANGE	Above 1 GHz
INPUT POWER	3VDC	DETECTOR FUNCTION	Peak / Average
ENVIRONMENTAL CONDITIONS	25 deg. C, 70 % RH, 1050 hPa	TESTED BY: James Lee	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M											
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
*1	2405.00	80.3 pk	114.00	-33.70	1.93V	349	48.05	27.11	5.10	0.00	-32.21
*2	2405.00	77.6 Av	94.00	-16.40	1.93V	349	45.40	27.11	5.10	0.00	-32.21
3	4810.00	54.0 pk	74.00	-20.00	1.30V	3	50.00	31.43	7.23	34.63	-4.02
4	4810.00	41.8 Av	54.00	-12.20	1.30V	3	37.80	31.43	7.23	34.63	-4.02
5	7215.00	52.5 pk	74.00	-21.50	1.73V	351	42.00	36.01	9.20	34.68	-10.53

- REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
 2. Correction Factor(dB) = Pre-Amplifier Factor (dB) - Antenna Factor (dB) - Cable Factor (dB)
 3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
 4. The other emission levels were very low against the limit.
 5. Margin value = Emission level– Limit value.
 6. "*" = Fundamental frequency



EUT	Wireless Keyboard	MODEL	Wireless 2.4G TwinTouch+
MODE	Channel 8	FREQUENCY RANGE	Above 1 GHz
INPUT POWER	3VDC	DETECTOR FUNCTION	Peak / Average
ENVIRONMENTAL CONDITIONS	25 deg. C, 70 % RH, 1050 hPa	TESTED BY: James Lee	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M											
No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
*1	2440.00	85.4 pk	114.00	-28.60	1.78H	360	53.00	27.33	5.08	0.00	-32.40
*2	2440.00	82.4 Av	94.00	-11.60	1.78H	360	50.00	27.33	5.08	0.00	-32.40
3	4880.00	49.8 pk	74.00	-24.20	1.67H	5	45.70	31.47	7.21	34.63	-4.05
4	7320.00	59.8 pk	74.00	-14.20	1.71H	225	49.00	36.26	9.30	34.73	-10.84
5	7320.00	47.8 Av	54.00	-6.20	1.71H	225	37.00	36.26	9.30	34.73	-10.84

- REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
 2. Correction Factor(dB) = Pre-Amplifier Factor (dB) - Antenna Factor (dB) - Cable Factor (dB)
 3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
 4. The other emission levels were very low against the limit.
 5. Margin value = Emission level– Limit value.
 6. “*” = Fundamental frequency



EUT	Wireless Keyboard	MODEL	Wireless 2.4G TwinTouch+
MODE	Channel 8	FREQUENCY RANGE	Above 1 GHz
INPUT POWER	3VDC	DETECTOR FUNCTION	Peak / Average
ENVIRONMENTAL CONDITIONS	25 deg. C, 70 % RH, 1050 hPa	TESTED BY: James Lee	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
*1	2440.00	86.4 pk	114.00	-27.60	1.00V	42	54.00	27.33	5.08	0.00	-32.40
*2	2440.00	84.0 Av	94.00	-10.00	1.00V	42	51.55	27.33	5.08	0.00	-32.40
3	4880.00	50.3 pk	74.00	-23.70	1.48V	223	46.20	31.47	7.21	34.63	-4.05
4	7320.00	48.9 Av	54.00	-5.10	1.79V	59	38.07	36.26	9.30	34.73	-10.84
5	7320.00	60.8 pk	74.00	-13.20	1.79V	59	50.00	36.26	9.30	34.73	-10.84

- REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
 2. Correction Factor(dB) = Pre-Amplifier Factor (dB) - Antenna Factor (dB) - Cable Factor (dB)
 3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
 4. The other emission levels were very low against the limit.
 5. Margin value = Emission level– Limit value.
 6. "*" = Fundamental frequency



EUT	Wireless Keyboard	MODEL	Wireless 2.4G TwinTouch+
MODE	Channel 16	FREQUENCY RANGE	Above 1 GHz
INPUT POWER	3VDC	DETECTOR FUNCTION	Peak / Average
ENVIRONMENTAL CONDITIONS	25 deg. C, 70 % RH, 1050 hPa	TESTED BY: James Lee	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
*1	2480.00	86.1 pk	114.00	-27.90	1.09H	133	53.50	27.54	5.06	0.00	-32.59
*2	2480.00	83.6 Av	94.00	-10.40	1.09H	133	51.00	27.54	5.06	0.00	-32.59
3	4960.00	51.2 pk	74.00	-22.80	1.93H	306	47.00	31.55	7.26	34.61	-4.21
4	7440.00	58.7 pk	74.00	-15.30	1.75H	40	47.80	36.52	9.16	34.78	-10.89
5	7440.00	46.9 Av	54.00	-7.10	1.75H	40	36.00	36.52	9.16	34.78	-10.89
6	9920.00	50.1 Av	54.00	-3.90	1.46H	339	34.70	38.26	12.17	35.01	-15.42
7	9920.00	62.4 pk	74.00	-11.60	1.46H	339	47.00	38.26	12.17	35.01	-15.42

- REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
 2. Correction Factor(dB) = Pre-Amplifier Factor (dB) - Antenna Factor (dB) - Cable Factor (dB)
 3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
 4. The other emission levels were very low against the limit.
 5. Margin value = Emission level- Limit value.
 - 6.“*” = Fundamental frequency



EUT	Wireless Keyboard	MODEL	Wireless 2.4G TwinTouch+
MODE	Channel 16	FREQUENCY RANGE	Above 1 GHz
INPUT POWER	3VDC	DETECTOR FUNCTION	Peak / Average
ENVIRONMENTAL CONDITIONS	25 deg. C, 70 % RH, 1050 hPa	TESTED BY: James Lee	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB)
*1	2480.00	82.6 Av	94.00	-11.40	1.82V	347	50.00	27.54	5.06	0.00	-32.59
*2	2480.00	85.0 pk	114.00	-29.00	1.82V	347	52.40	27.54	5.06	0.00	-32.59
3	4960.00	52.2 pk	74.00	-21.8	1.03V	56	48.00	31.55	7.26	34.61	-4.21
4	7440.00	59.9 pk	74.00	-14.10	1.41V	334	49.00	36.52	9.16	34.78	-10.89
5	7440.00	47.9 Av	54.00	-6.10	1.41V	334	37.00	36.52	9.16	34.78	-10.89

- REMARKS:
1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
 2. Correction Factor(dB) = Pre-Amplifier Factor (dB) - Antenna Factor (dB) - Cable Factor (dB)
 3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
 4. The other emission levels were very low against the limit.
 5. Margin value = Emission level– Limit value.
 6. “*” = Fundamental frequency

4.1 BAND EDGES MEASUREMENT

4.1.1 LIMITS OF BAND EDGES MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100KHz Resolution Bandwidth).

4.1.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 17, 2002

NOTE:

1. The measurement uncertainty is less than $\pm 2.6\text{dB}$, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1.3 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 with suitable frequency span including 100 kHz bandwidth from band edge. The band edges was measured and recorded.



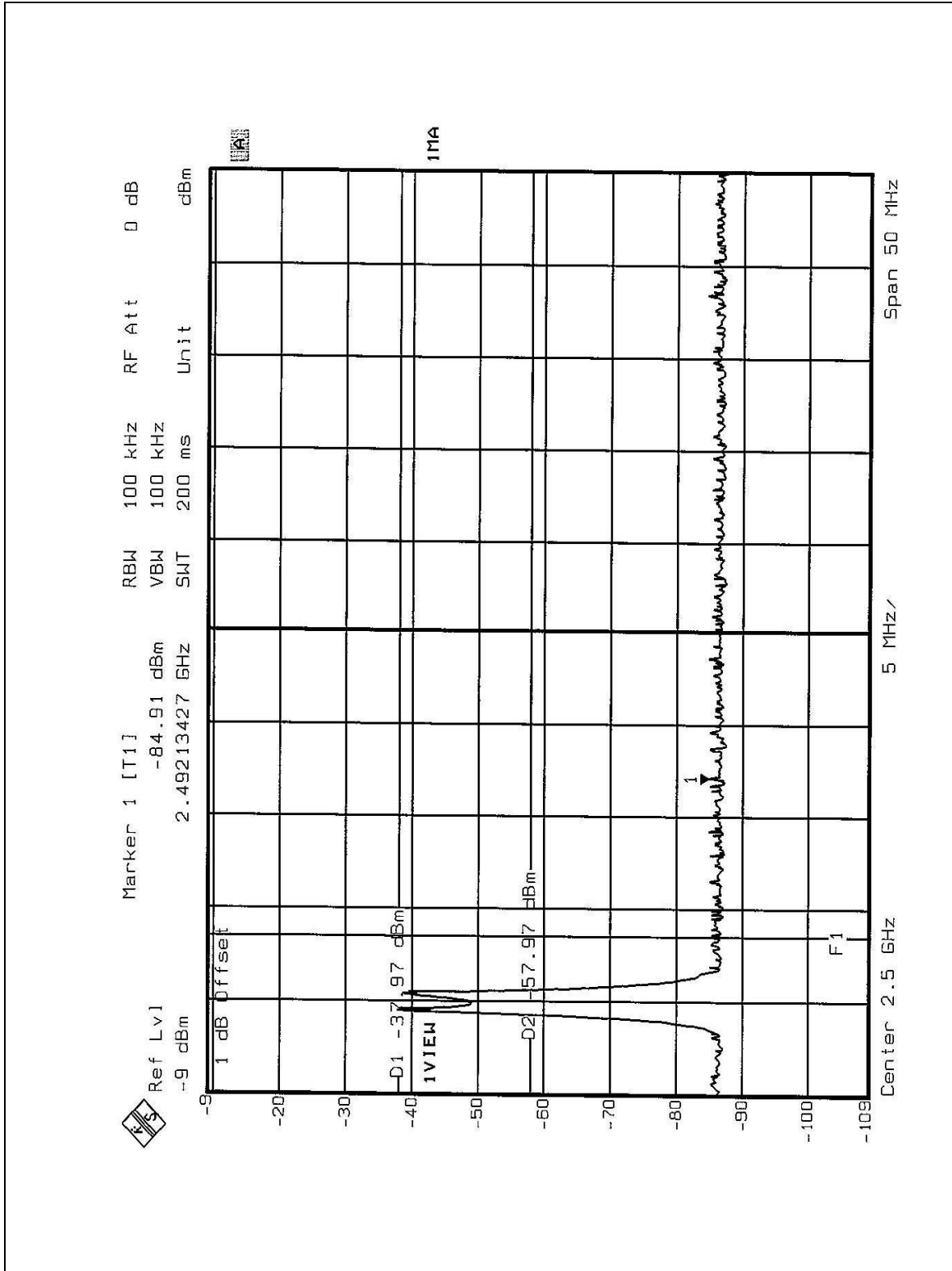
4.1.4 EUT OPERATING CONDITION

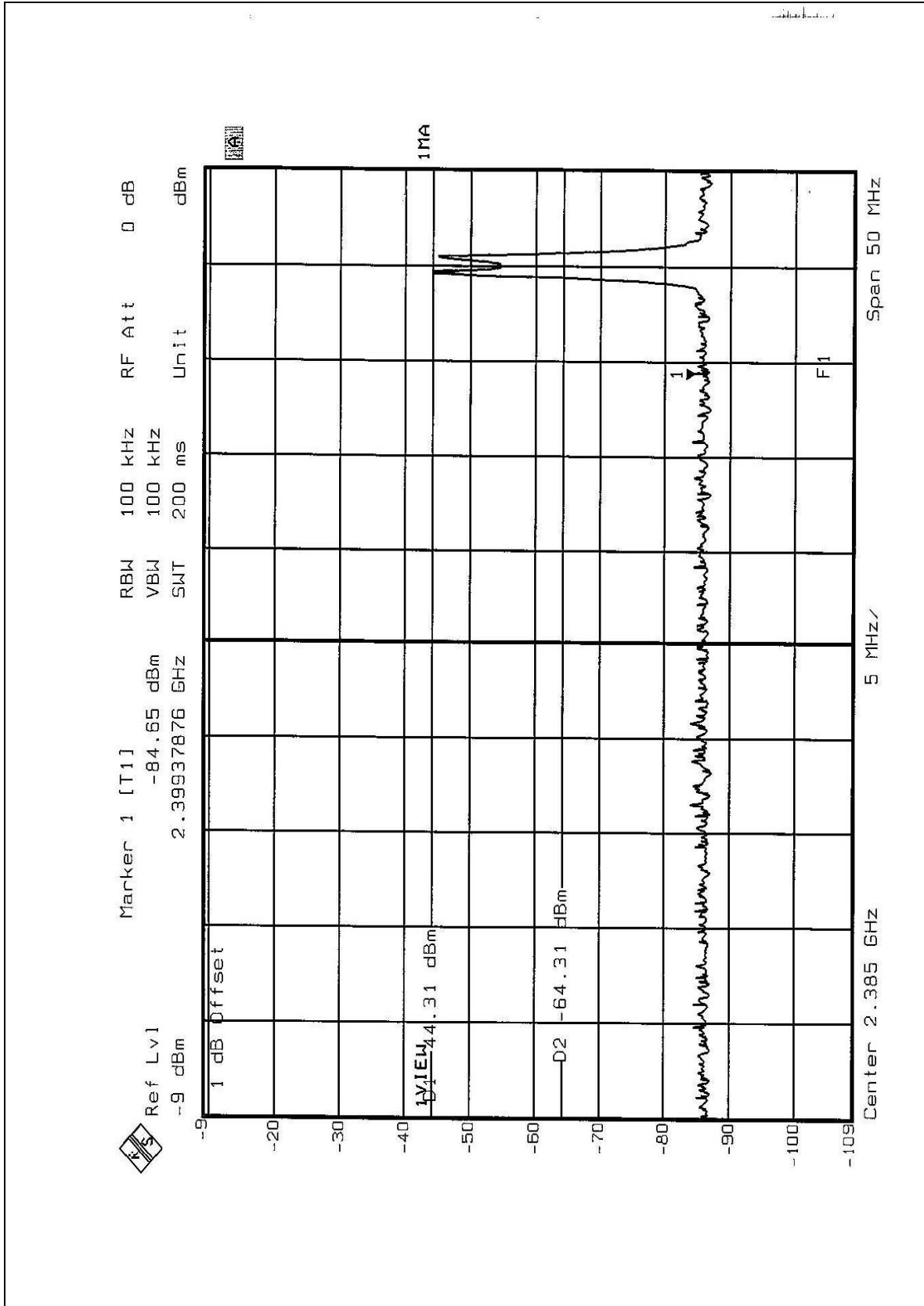
Same as Item 3.4.5

4.1.5 TEST RESULTS

The spectrum plots are attached on the following 2 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.249(C).

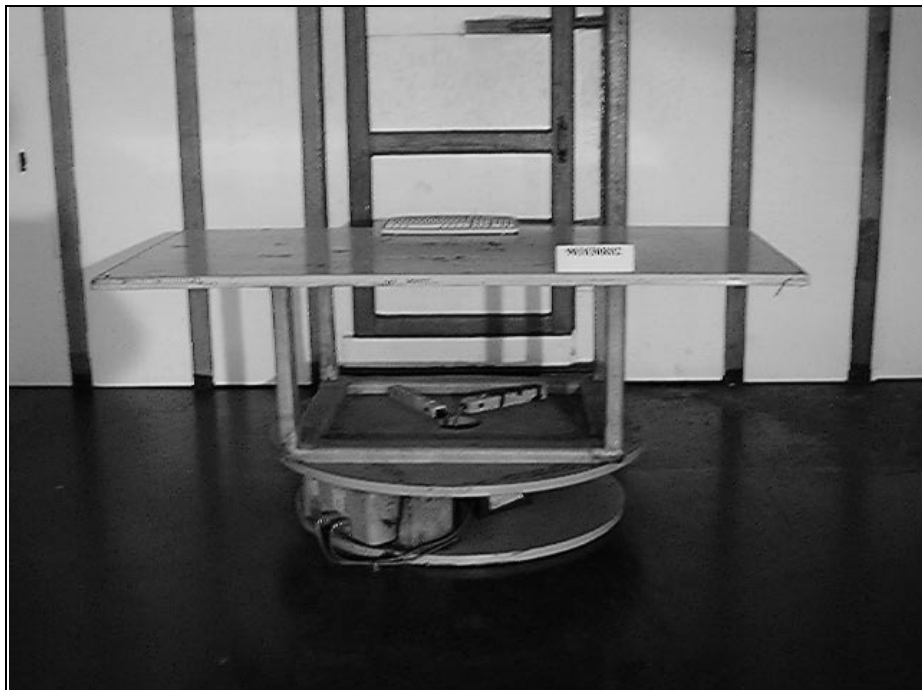
NOTE: The band edge emission plot on the following 2 pages shows 46.94dB delta between carrier maximum power and local maximum emission in restrict band (2.4921GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.6 (Page 17) is 83.60dBuV/m, so the maximum field strength in restrict band is $83.60 - 46.94 = 36.66$ dBuV/m which is under 54 dBuV/m limit.





5 PHOTOGRAPHS OF THE TEST CONFIGURATION

RADIATED EMISSION TEST





6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

USA	FCC, NVLAP
Germany	TUV Rheinland
Japan	VCCI
New Zealand	MoC
Norway	NEMKO
R.O.C.	BSMI, DGT, CNLA

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:

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