

FCC TEST REPORT

REPORT NO.: 070509FIA01

MODEL NO.: 011CF

RECEIVED: May. 22, 2007

TESTED: May. 22 ~ Jun. 11, 2007

ISSUED: Jun. 11, 2007

APPLICANT: SHENZHEN AEE TECHNOLOGY CO., LTD.

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Shenzhen, P.R.C

ISSUED BY: ADT (Shanghai) Corporation

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ADT (Shanghai) Corporation.



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1 CERTIFICATION

PRODUCT: 2.4G wireless camera
MODEL NO.: 011CF
BRAND NAME: AEE
APPLICANT: SHENZHEN AEE TECHNOLOGY CO., LTD.
TESTED: May. 22 ~ Jun. 11, 2007
TEST ITEM: ENGINEERING SAMPLE
STANDARDS: 47 CFR Part 15, Subpart C (Section 15.249),
ANSI C63.4-2003

The above equipment has been tested by **ADT (Shanghai) 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
ACCEPTANCE :**

A handwritten signature in black ink, appearing to read 'Vivian Hsu', written over a horizontal line.

DATE: Jun. 11, 2007

Vivian Hsu
Engineering Supervisor

APPROVED BY :

A handwritten signature in black ink, appearing to read 'Wallace Pan', written over a horizontal line.

DATE: Jun. 11 2007

Wallace Pan
Director of Operations

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
15.207	Conducted Emission Test	N/A	Refer to 4.1.2
15.249	Radiated Emission Test	PASS	Minimum passing margin is -1.32 dB at 4827.14 MHz
15.249(d)	Band Edge Measurement	PASS	Meet the requirement of limit

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:

Measurement	Value
Conducted emissions	1.8dB
Radiated emissions	3.2dB

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	2.4G wireless camera
MODEL NO.	011CF
POWER SUPPLY	12Vdc from battery
POWER CABLE SUPPLIED	2m, non-shielded, detachable
MODULATION TYPE	FM
FREQUENCY RANGE OF OPERATION	2.414 ~ 2.468 GHz
CHANNEL SEPARATION	18 MHz
NUMBER OF CHANNEL	4
ANTENNA TYPE	Printed
DATA CABLE SUPPLIED	N/A
I/O PORTS	N/A

NOTE: 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

Four channels are provided to this EUT:

Channel	Frequency MHz
1	2414
2	2432
3	2450
4	2468

**Test Mode Applicability AND TESTED CHANNEL DETAIL:**

EUT configure mode	Applicable to					Description
	PLC	RE<1G	RE≥1G	APM	BE	
A	-	√	√	-	√	Working normally.

Where PLC: Power Line Conducted Emission

RE<1G RE: Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz

APM: Antenna Port Measurement

BE: Band Edge Measurement

Radiated Emission Test (Below 1 GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, and X.Y.Z. axis.

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

Test Mode	Available Channel	Tested Channel	Modulation Type	Axis
A	1 ~ 4	1	FM	X

Radiated Emission Test (Above 1 GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, and X.Y.Z. axis.

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

Test Mode	Available Channel	Tested Channel	Modulation Type	Axis
A	1 ~ 4	1, 2, 4	FM	X

Band Edge Measurement

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, and X.Y.Z. axis.

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

Test Mode	Available Channel	Tested Channel	Modulation Type	Axis
A	1 ~ 4	1, 4	FM	X

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a 2.4G wireless camera. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

47 CFR Part 15, Subpart C (Section 15.249)
ANSI C63.4: 2003

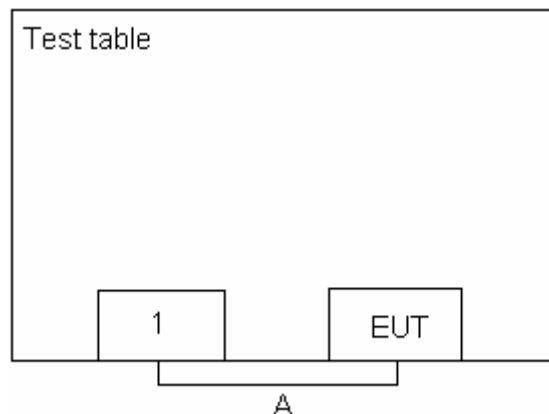
All test items have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit 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.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Battery	KOBA	NF78-550	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
A	2m non-shielded power extended cable.



4 EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTES: 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 of 0.15 to 0.50 MHz.

4.1.2 TEST RESULTS

Since the EUT does not have AC port, the test item is not applicable.

4.2 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	113.98	93.98

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

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
Test Receiver ROHDE & SCHWARZ	ESCS30	E1R1001	Apr. 19, 2008
BILOG Antenna SCHWARZBECK	VULB9168	E1A1001	Sept. 26, 2007
Preamplifier Agilent	8447D	E1A2001	Jan. 27, 2008
Preamplifier Agilent	8449B	E1A2002	Jan. 27, 2008
Double Ridged Broadband Horn Antenna Schwarzbeck	BBHA 9120D	E1A1002	Feb. 15, 2008
*Spectrum Analyzer Agilent	E4403B	E1S1001	Jan. 13, 2008
*Spectrum Analyzer ROHDE & SCHWARZ	FSP	E1S1002	May. 15, 2008
RF signal cable Woken	RG-402	E1CBH01	May. 30, 2008
RF signal cable Woken	RG-402	E1CBH16	May. 30, 2008
RF signal cable Woken	RG-402	E1CBH20	May. 30, 2008
RF signal cable Woken	RG-412	E1CBL02	May. 30, 2008
RF signal cable Woken	RG-412	E1CBL03	May. 30, 2008
RF signal cable Woken	RG-412	E1CBL04	May. 30, 2008
Software ADT	ADT_Radiated_V7.5	N/A	N/A

- NOTE:**
1. The calibration interval of the above test instruments is 12 months.
 2. "*" = These equipment are used for the final measurement.
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The Spectrum Analyzer (model: FSP) and RF signal cable (SERIAL: E1CBH05&E1CBH07) are used only for the measurement of emission frequency above 1GHz if tested.

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 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 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.

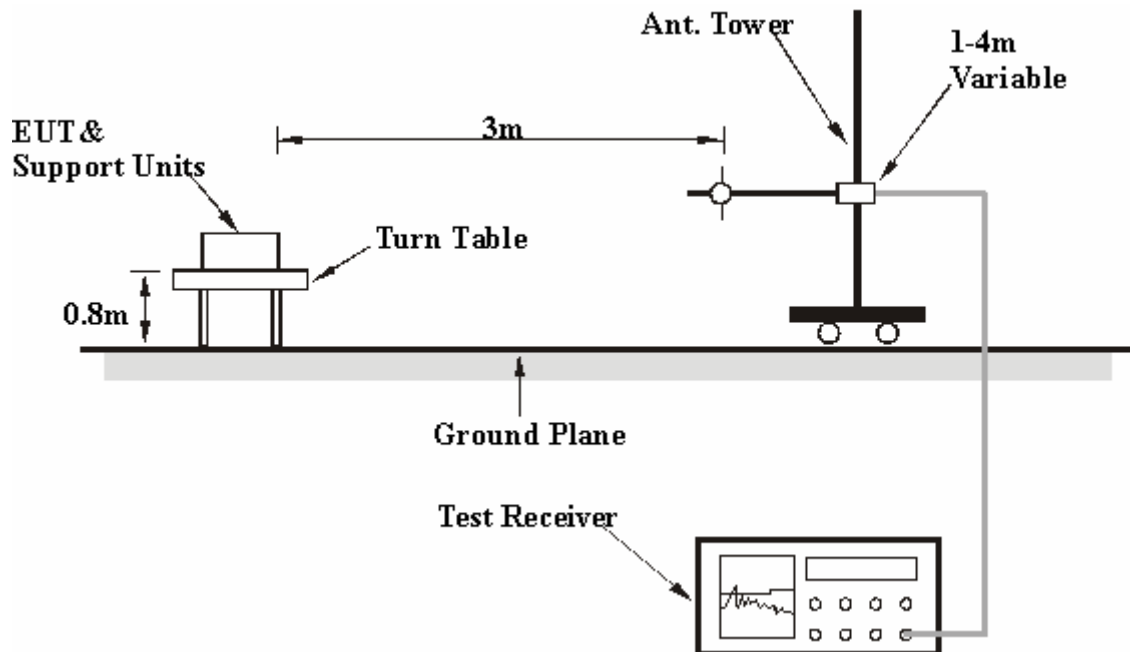
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz 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.

4.2.5 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

Below 1GHz worst case

EUT	2.4G wireless camera	MODEL NO.	011CF
CHANNEL	Channel 1	FREQUENCY RANGE	30 ~ 1000 MHz
MODULATION TYPE	FM	INPUT POWER (SYSTEM)	12 Vdc from battery
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	DETECTOR FUNCTION	Quasi-Peak
TESTED BY	Brian		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	141.55	16.34	-7.01	9.33	43.50	-34.17	100.00	129.00
2	194.90	13.20	-6.09	7.11	43.50	-36.39	100.00	304.00
3	371.93	18.08	-6.08	12.00	46.00	-34.00	100.00	259.00
4	531.98	21.58	-3.99	17.60	46.00	-28.40	100.00	18.00
5	900.58	27.24	-4.25	22.99	46.00	-23.01	100.00	19.00
6	929.67	27.71	-3.49	24.21	46.00	-21.79	100.00	303.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	141.87	16.36	18.91	35.27	43.50	-8.23	99.00	149.00
2	184.72	14.07	7.38	21.45	43.50	-22.05	99.00	202.00
3	266.01	15.35	8.58	23.93	46.00	-22.07	99.00	19.00
4	873.90	26.53	-2.62	23.91	46.00	-22.09	99.00	232.00
5	934.52	27.73	-2.23	25.51	46.00	-20.49	99.00	131.00
6	961.20	27.77	-2.34	25.43	54.00	-28.57	99.00	242.00

- NOTE:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB)
 2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.

**Above 1 GHz**

EUT	2.4G wireless camera	MODEL NO.	011CF
CHANNEL	Channel 1	FREQUENCY RANGE	Above 1GHz
MODULATION TYPE	FM	INPUT POWER (SYSTEM)	12 Vdc from battery
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	DETECTOR FUNCTION	PK / AV: 1MHz
TESTED BY	REBECCA		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1*	2411.84 PK	32.62	43.76	76.38	114	-37.62	199	0
1*	2413.44 AV	32.62	41.59	74.21	94	-19.79	199	0
2	4823.30 PK	38.12	27.71	65.83	74	-8.17	100	76
2	4827.14 AV	38.13	14.55	52.68	54	-1.32	100	76
3	7245.00 PK	45.25	13.31	58.56	74	-15.44	100	69
3	7245.00 AV	45.25	1.33	46.58	54	-7.42	100	69
4	9660.00 PK	48.05	11.67	59.72	74	-14.28	100	116
4	9660.00 AV	48.05	-0.84	47.21	54	-6.79	100	116
5	12075.00 PK	49.08	10.24	59.32	74	-14.68	100	98
5	12075.00 AV	49.08	-0.18	48.90	54	-5.10	100	98

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1*	2414.00 PK	32.62	42.76	75.38	114	-38.62	199	19
1*	2413.68 AV	32.62	40.89	73.51	94	-20.49	199	19
2	4827.30 PK	38.14	27.96	66.10	74	-7.90	100	234
2	4826.86 AV	38.13	12.73	50.86	54	-3.14	100	234
3	7245.00 PK	45.25	15.98	61.23	74	-12.77	100	78
3	7240.48 AV	45.25	5.05	50.30	54	-3.70	100	78
4	9660.00 PK	48.05	14.35	62.40	74	-11.60	100	36
4	9662.68 AV	48.05	3.86	51.91	54	-2.09	100	36
5	12075.00 PK	49.08	10.16	59.24	74	-14.76	100	48
5	12075.00 AV	49.08	-0.45	48.63	54	-5.37	100	48

- NOTE:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB)
 2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “*” = Fundamental frequency
 6. The other emission levels were very low against the limit.



EUT	2.4G wireless camera	MODEL NO.	011CF
CHANNEL	Channel 2	FREQUENCY RANGE	Above 1GHz
MODULATION TYPE	FM	INPUT POWER (SYSTEM)	12 Vdc from battery
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	DETECTOR FUNCTION	PK / AV: 1MHz
TESTED BY	REBECCA		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2432.00 PK	32.65	43.25	75.90	114	-38.10	199	19
*1	2430.84 AV	32.65	41.58	74.23	94	-19.77	199	19
2	4869.70 PK	38.30	27.42	65.72	74	-8.28	100	65
2	4869.60 AV	45.26	5.78	51.04	54	-2.96	100	65
3	7296.00 PK	48.22	15.57	63.79	74	-10.21	100	98
3	7296.00 AV	49.13	1.97	51.10	54	-2.90	100	98
4	9728.00 PK	38.30	15.09	53.39	74	-20.61	100	116
4	9728.00 AV	45.26	3.28	48.54	54	-5.46	100	116
5	12160.00 PK	48.22	10.93	59.15	74	-14.85	100	69
5	12160.00 AV	49.13	-1.05	48.08	54	-5.92	100	69

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2432.00 PK	32.65	43.95	76.60	114	-37.40	199	0
*1	2430.92 AV	32.65	41.16	73.81	94	-20.19	199	0
2	4856.50 PK	38.30	27.32	65.62	74	-8.38	100	168
2	4859.70 AV	45.26	6.02	51.28	54	-2.72	100	168
3	7296.00 PK	48.22	15.36	63.58	74	-10.42	100	236
3	7296.00 AV	49.13	2.64	51.77	54	-2.23	100	236
4	9728.00 PK	38.30	15.31	53.61	74	-20.39	100	48
4	9728.00 AV	45.26	2.23	47.49	54	-6.51	100	48
5	12160.00 PK	48.22	11.27	59.49	74	-14.51	100	70
5	12160.00 AV	49.13	-1.02	48.11	54	-5.89	100	70

- NOTE:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB)
 2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “*” = Fundamental frequency
 6. The other emission levels were very low against the limit.



EUT	2.4G wireless camera	MODEL NO.	011CF
CHANNEL	Channel 4	FREQUENCY RANGE	Above 1GHz
MODULATION TYPE	FM	INPUT POWER (SYSTEM)	12 Vdc from battery
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 1000 hPa	DETECTOR FUNCTION	PK / AV: 1MHz
TESTED BY	REBECCA		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2468.00 PK	32.73	43.25	75.98	114	-38.02	199	0
*1	2467.36 AV	32.73	41.17	73.90	94	-20.10	199	0
2	4936.00 PK	38.55	27.27	65.82	74	-8.18	100	116
2	4936.00 AV	38.55	6.54	45.09	54	-8.91	100	116
3	7404.00 PK	45.25	15.82	61.07	74	-12.93	100	224
3	7404.00 AV	45.25	3.18	48.43	54	-5.57	100	224
4	9872.00 PK	48.48	15.18	63.66	74	-10.34	100	79
4	9872.00 AV	48.48	1.49	49.97	54	-4.03	100	79
5	12340.00 PK	49.23	10.74	59.97	74	-14.03	100	84
5	12340.00 AV	49.23	-0.58	48.65	54	-5.35	100	84

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
*1	2468.00 PK	32.73	43.91	76.64	114	-37.36	199	19
*1	2466.80 AV	45.25	41.20	86.45	94	-7.55	199	19
2	4936.00 PK	32.73	27.99	60.72	74	-13.28	100	68
2	4936.00 AV	48.48	3.03	51.51	54	-2.49	100	68
3	7404.00 PK	38.55	15.44	53.99	74	-20.01	100	76
3	7404.00 AV	48.48	2.72	51.20	54	-2.80	100	76
4	9872.00 PK	38.55	15.26	53.81	74	-20.19	100	236
4	9872.00 AV	49.23	2.16	51.39	54	-2.61	100	236
5	12340.00 PK	45.25	10.45	55.70	74	-18.30	100	198
5	12340.00 AV	49.23	-0.54	48.69	54	-5.31	100	198

- NOTE:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB)
 2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “*” = Fundamental frequency
 6. The other emission levels were very low against the limit.

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
SIGNAL ANALYZER Rohde & Schwarz	FSP30	E1S1002	May. 16. 2008

4.3.3 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 100MHz bandwidth from band edge. The band edges was measured and recorded.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

4.3.5 EUT OPERATING CONDITION

Enable the EUT to transmit data at lowest and highest channel frequencies individually.

4.3.6 TEST RESULTS

For Emissions outside of the specified frequency bands (Radiated), please refer to report section 4.2.7 which met the requirement of the general radiated emission limits in § 15.209.



5 PHOTOGRAPHS OF THE TEST CONFIGURATION



6 PHOTOGRAPHS OF THE EUT

7 APPENDIX - INFORMATION ON THE TESTING LABORATORY

We, ADT (Shanghai) Corp., was founded in 2003 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratory is accredited and approved by the following approval agencies according to ISO / IEC 17025 (2005).

The client should not use it to claim product endorsement by CNAS, A2LA, or any government agency.

Japan	VCCI
USA	FCC, A2LA
Norway	DNV
China	CNAS



Copies of accreditation certificates of our laboratory obtained from approval agencies can be downloaded from our web site: www.cnadt.com

If you have any comments, please feel free to contact us at the following:

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