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## Supplemental “Dual Xmit” Test Report

**REPORT NO.:** RF981102H02-2

**MODEL NO.:** T77H134

**RECEIVED:** Nov. 02, 2009

**TESTED:** Nov. 16 to Dec. 08, 2009

**ISSUED:** Jan. 13, 2010

**APPLICANT:** Hon Hai PRECISION IND.CO.,LTD

**ADDRESS:** 5F-1,5 Hsin-An Road Hsinchu, Science-Based  
Industrial Park Taiwan, R.O.C.

**ISSUED BY:** Advance Data Technology Corporation

**LAB LOCATION:** No. 81-1, Lu Liao Keng, 9 Ling, Wu Lung Tsuen,  
Chiung Lin Hsiang, Hsin Chu Hsien,  
Taiwan, R.O.C.

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## 1. CERTIFICATION

**PRODUCT :** WLAN and Bluetooth combo module  
**BRAND NAME :** Foxconn  
**MODEL NO. :** T77H134  
**TESTED :** Nov. 16 to Dec. 08, 2009  
**APPLICANT :** Hon Hai PRECISION IND.CO.,LTD  
**TEST SAMPLE :** ENGINEERING SAMPLE  
**STANDARDS :** 47 CFR FCC Part 15, Subpart C  
ANSI C63.4-2003

**PREPARED BY :**  , **DATE:** Jan. 13, 2010  
( Claire Kaun, Specialist )

**TECHNICAL ACCEPTANCE :**  , **DATE:** Jan. 13, 2010  
( Hank Chung, Deputy Manager )

**APPROVED BY :**  , **DATE:** Jan. 13, 2010  
( May Chen, Deputy Manager )

Note:

Per FCC co-transmitting policy, the WLAN and Bluetooth combo module was tested for conducted and radiated emissions in restricted bands while transmitting on both 2.4 GHz and bluetooth at simultaneously.



## 2. DUAL XMIT, CONDUCTED EMISSION MEASUREMENT

### 2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB $\mu$ V)	
0.15-0.5 0.5-5 5-30	Quasi-peak	Average
	66 to 56	56 to 46
	56	46
	60	50

- NOTE:**
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.
  3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### 2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver	ESCS 30	100375	Mar. 23, 2009	Mar. 22, 2010
Line-Impedance Stabilization Network (for Peripheral)	ENV-216	100071	Nov. 25, 2009	Nov. 24, 2010
Line-Impedance Stabilization Network (for EUT)	ESH3-Z5	848773/004	Nov. 04, 2009	Nov. 03, 2010
RF Cable (JYEBAO)	5DFB	COBCAB-001	Aug. 14, 2009	Aug. 13, 2010
50 ohms Terminator	50	3	Nov. 04, 2009	Nov. 03, 2010
Software	BV ADT_Cond_V7.3.7	NA	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 Shielded Room No. B.
3. The VCCI Con B Registration No. is C-2193.

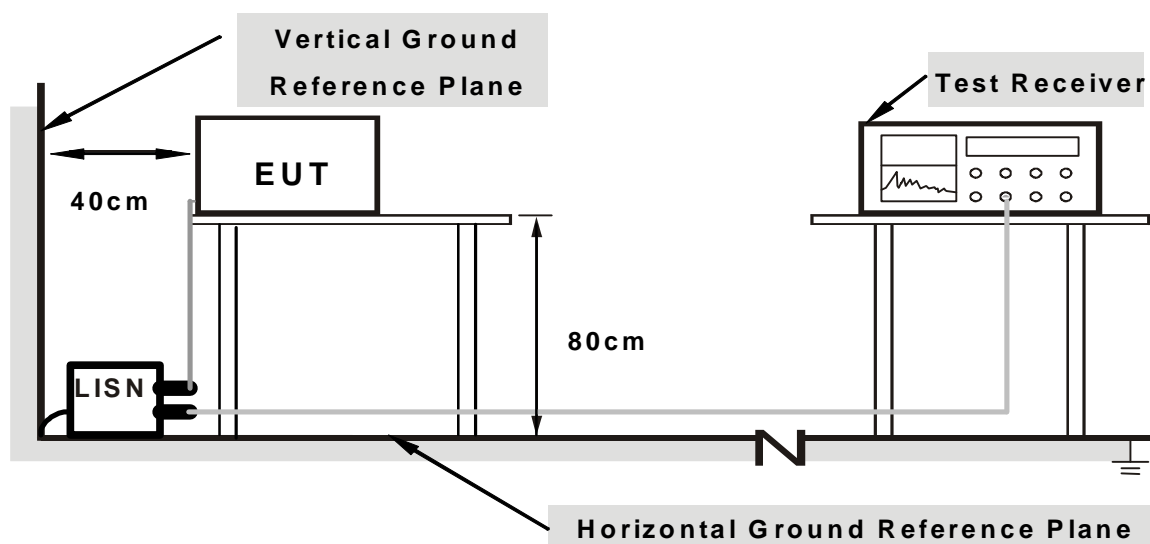
## 2.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

## 2.4 DEVIATION FROM TEST STANDARD

No deviation

## 2.5 TEST SETUP



**Note: 1. Support units were connected to second LISN.**

**2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes**

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



## 2.5 EUT OPERATING CONDITIONS

The communication partners run test program “Ping.exe” to enable EUT under transmission/receiving condition continuously via wireless transmission.

### Note:

- 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.

### **Power Line Conducted Emission Test:**

Mode
WLAN ping + Bluetooth ping mode

### **TEST CONDITION:**

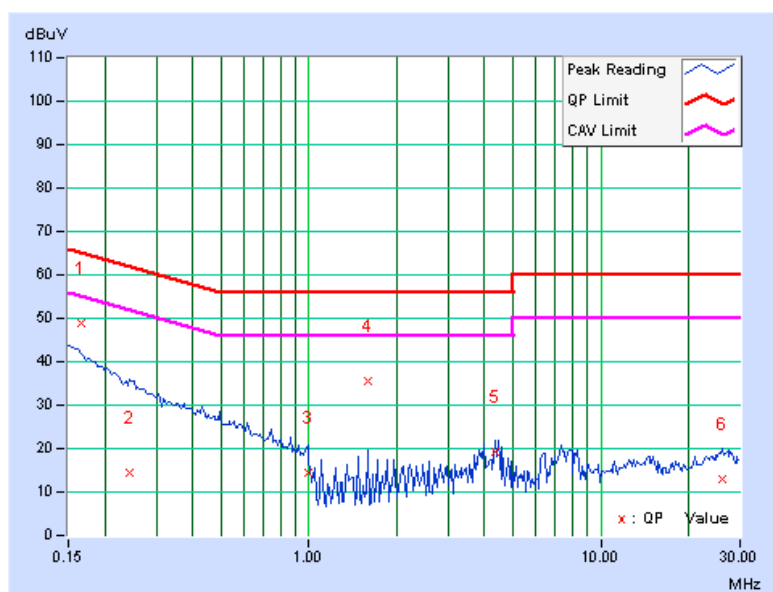
APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
PLC	26deg. C, 60%RH, 1016 hPa	120Vac, 60Hz	Kent Liu

## 2.7 TEST RESULTS

<b>PHASE</b>	Line (L)	<b>6dB BANDWIDTH</b>	9 kHz
<b>TEST MODE</b>	WLAN ping + Bluetooth ping mode		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.166	0.17	48.73	7.00	48.90	7.17	65.18
2	0.244	0.18	14.14	4.71	14.32	4.89	61.97	51.97	-47.65	-47.08
3	0.990	0.44	13.99	2.55	14.43	2.99	56.00	46.00	-41.57	-43.01
4	1.594	0.49	34.99	6.21	35.48	6.70	56.00	46.00	-20.52	-39.30
5	4.340	0.64	18.60	1.02	19.24	1.66	56.00	46.00	-36.76	-44.34
6	26.051	1.82	11.13	2.70	12.95	4.52	60.00	50.00	-47.05	-45.48

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.



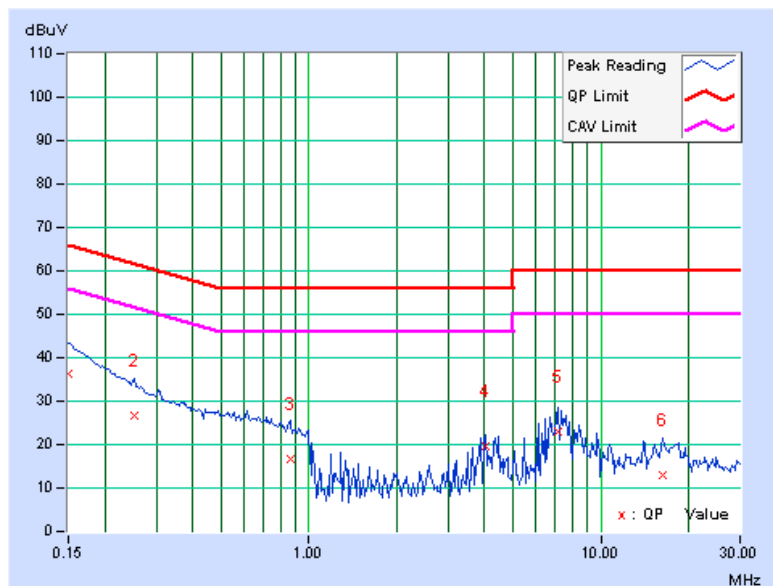


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<b>PHASE</b>	Neutral (N)	<b>6dB BANDWIDTH</b>	9 kHz
<b>TEST MODE</b>	WLAN ping + Bluetooth ping mode		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
	1	0.150	0.10	36.11	8.41	36.21	8.51	66.00	56.00	-29.79
2	0.252	0.12	26.73	10.32	26.85	10.44	61.71	51.71	-34.86	-41.27
3	0.861	0.30	16.35	9.91	16.65	10.21	56.00	46.00	-39.35	-35.79
4	4.008	0.55	18.97	8.42	19.52	8.97	56.00	46.00	-36.48	-37.03
5	7.168	0.71	22.09	9.66	22.80	10.37	60.00	50.00	-37.20	-39.63
6	16.207	1.04	11.84	0.68	12.88	1.72	60.00	50.00	-47.12	-48.28

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.







### 3. DUAL XMIT, RADIATED EMISSION MEASUREMENT

#### 3.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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:

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.



### 3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Spectrum Analyzer	FSP40	100036	Dec. 18, 2009	Dec. 17, 2010
Agilent PSA Spectrum Analyzer	E4446A	MY46180622	Apr. 24 , 2009	Apr. 23 , 2010
HP Pre_Amplifier	8449B	300801923	Nov. 02, 2009	Nov. 01, 2010
ROHDE & SCHWARZ Test Receiver	ESCS30	847124/029	Aug. 28, 2009	Aug. 27, 2010
SCHWARZBECK TRILOG Broadband Antenna	VULB 9168	138	April 29, 2009	April 28, 2010
Schwarzbeck Horn_Antenna	BBHA9120	D124	Dec. 18, 2009	Dec. 17, 2010
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170153	Jan. 22, 2009	Jan. 21, 2010
R&S Loop Antenna	HFH2-Z2	100070	Jan. 14, 2008	Jan. 13, 2010
RF Switches	EMH-011	1001	NA	NA
RF CABLE (Chaintek)	Sucoflex 106	28077	Aug. 14, 2009	Aug. 13, 2010
RF Cable	8DFB	STCCAB-30M-1GHz	NA	NA
Software	ADT_Radiated_V7.6.15.9.2	NA	NA	NA
CT Antenna Tower & Turn Table	NA	NA	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 horn antenna, HP preamplifier (model: 8449B) and Spectrum Analyzer (model: FSP40) are used only for the measurement of emission frequency above 1GHz if tested.  
3. The test was performed in Open Site No. C.  
4. The FCC Site Registration No. is 656396.  
5. The VCCI Site Registration No. is R-1626.  
6. The CANADA Site Registration No. is IC 7450G-3.



### 3.3 TEST PROCEDURES

- 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.
- g. The emissions up to 40 GHz were examined. Those emission falling within a restricted band were evaluated against the “restricted band emission limit” ( 54 dB $\mu$ V / 74 dB $\mu$ V).

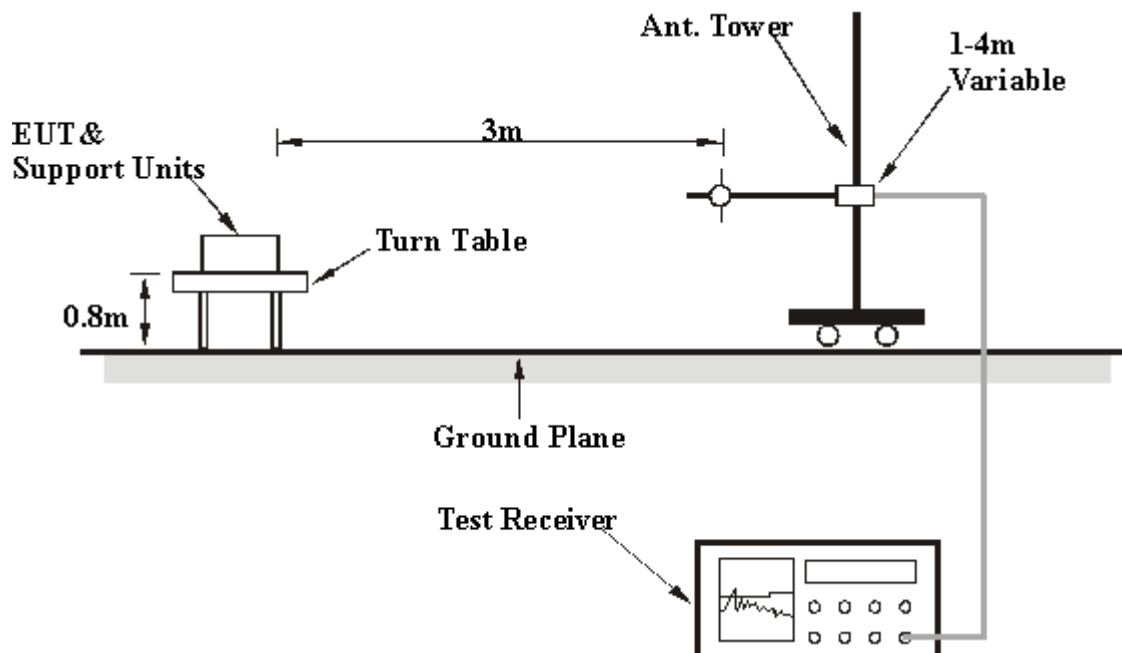
**NOTE:**

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.
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.

### 3.4 DEVIATION FROM TEST STANDARD

No deviation

### 3.5 TEST SETUP



### 3.6 EUT OPERATING CONDITIONS

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

Note:

- 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.

#### Radiated Emission Test:

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
WLAN + Bluetooth with PCB Printed antenna	1 to 11	6	OFDM	BPSK	6
	0 to 78	0	FHSS	GPSK	-
WLAN + Bluetooth with PIFA antenna	1 to 11	6	OFDM	BPSK	6
	0 to 78	0	FHSS	GPSK	-

#### TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE <sup>3</sup> 1G	29deg. C, 64%RH, 1016 hPa	120Vac, 60Hz	Frank Liu / Wen Yu
RE<1G	29deg. C, 67%RH, 1016 hPa	120Vac, 60Hz	Kent Liu / Wen Yu
PLC	26deg. C, 60%RH, 1016 hPa	120Vac, 60Hz	Kent Liu



## 3.7 TEST RESULTS

EUT TEST CONDITION		MEASUREMENT DETAIL	
<b>CHANNEL</b>	WLAN: Channel 6 Bluetooth: Channel 0	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60 Hz	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>ENVIRONMENTAL CONDITIONS</b>	26deg. C, 62%RH 1016 hPa	<b>TESTED BY</b>	Rex Huang
<b>TEST MODE</b>	PCB Printed antenna		

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	240.04	21.05 QP	46.00	-24.95	1.12 H	121	7.72	13.33
2	498.00	35.68 QP	46.00	-10.32	1.40 H	0	14.43	21.25
3	639.23	32.69 QP	46.00	-13.31	1.23 H	146	8.43	24.26
4	719.24	30.18 QP	46.00	-15.82	1.18 H	258	4.97	25.21
5	809.14	33.31 QP	46.00	-12.69	1.14 H	254	6.55	26.76
6	899.06	34.96 QP	46.00	-11.04	1.40 H	175	6.79	28.17
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	71.25	31.52 QP	40.00	-8.48	1.12 V	131	18.96	12.55
2	120.00	23.65 QP	43.50	-19.85	1.20 V	183	11.70	11.95
3	498.90	28.77 QP	46.00	-17.23	1.30 V	115	7.49	21.28
4	599.00	30.96 QP	46.00	-15.04	1.08 V	32	7.12	23.84
5	720.00	29.54 QP	46.00	-16.46	1.56 V	316	4.32	25.22
6	899.00	32.29 QP	46.00	-13.71	1.07 V	45	4.12	28.17

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. rrection 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.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	WLAN: Channel 6 Bluetooth: Channel 0	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 62%RH 1016 hPa	TESTED BY	Wen Yu
TEST MODE	PIFA antenna		

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	240.00	22.31 QP	46.00	-23.69	1.11 H	132	8.97	13.34
2	498.00	35.75 QP	46.00	-10.25	1.44 H	12	14.04	21.71
3	639.23	32.87 QP	46.00	-13.13	1.22 H	154	7.96	24.91
4	719.24	30.38 QP	46.00	-15.62	1.15 H	260	3.98	26.40
5	809.14	33.76 QP	46.00	-12.24	1.21 H	264	6.05	27.71
6	899.06	34.89 QP	46.00	-11.11	1.41 H	177	6.05	28.84
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	71.25	32.56 QP	40.00	-7.44	1.10 V	136	20.29	12.27
2	120.00	23.86 QP	43.50	-19.64	1.20 V	188	12.04	11.82
3	498.90	28.96 QP	46.00	-17.04	1.33 V	125	7.23	21.73
4	599.00	30.99 QP	46.00	-15.01	1.01 V	33	6.53	24.46
5	720.00	29.96 QP	46.00	-16.04	1.55 V	320	3.54	26.42
6	899.00	32.58 QP	46.00	-13.42	1.10 V	52	3.74	28.84

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. rrection 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.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	WLAN: Channel 6 Bluetooth: Channel 0	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1016 hPa	TESTED BY	Frank Liu
TEST MODE	PCB Printed antenna		

**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	55.21 PK	74.00	-18.79	1.68 H	199	24.93	30.28
2	2390.00	25.21 AV	54.00	-28.79	1.68 H	199	-5.07	30.28
3	2483.50	66.10 PK	74.00	-7.90	1.64 H	324	35.47	30.63
4	2483.50	50.10 AV	54.00	-3.90	1.64 H	324	19.47	30.63
5	4804.00	48.20 PK	74.00	-25.80	1.30 H	298	11.47	36.73
6	4804.00	18.20 AV	54.00	-35.80	1.30 H	298	-18.53	36.73
7	4874.00	51.20 PK	74.00	-22.80	1.54 H	8	14.28	36.92
8	4874.00	38.10 AV	54.00	-15.90	1.54 H	8	1.18	36.92
9	7206.00	54.60 PK	74.00	-19.40	1.10 H	147	11.46	43.14
10	7206.00	24.60 AV	54.00	-29.40	1.10 H	147	-18.54	43.14
11	7311.00	64.23 PK	74.00	-9.77	1.01 H	133	21.09	43.14
12	7311.00	49.90 AV	54.00	-4.10	1.01 H	133	6.76	43.14

**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	2390.00	55.00 PK	74.00	-19.00	1.02 V	35	24.72	30.28
2	2390.00	25.00 AV	54.00	-29.00	1.02 V	35	-5.28	30.28
3	4804.00	48.21 PK	74.00	-25.79	1.02 V	25	11.48	36.73
4	4804.00	18.21 AV	54.00	-35.79	1.02 V	25	-18.52	36.73
5	4874.00	49.65 PK	74.00	-24.35	1.01 V	169	12.73	36.92
6	4874.00	43.20 AV	54.00	-10.80	1.01 V	169	6.28	36.92
7	7206.00	51.50 PK	74.00	-22.50	1.10 V	135	8.36	43.14
8	7206.00	21.50 AV	54.00	-32.50	1.10 V	135	-21.64	43.14
9	7311.00	65.20 PK	74.00	-8.80	1.00 V	240	22.06	43.14
10	7311.00	53.00 AV	54.00	-1.00	1.00 V	240	9.86	43.14

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. rrection 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.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	WLAN: Channel 6 Bluetooth: Channel 0	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH 1016 hPa	TESTED BY	Wen Yu
TEST MODE	PIFA antenna		

**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	55.30 PK	74.00	-18.70	1.59 H	211	25.24	30.06
2	2390.00	25.20 AV	54.00	-28.80	1.59 H	211	-4.86	30.06
3	2483.50	66.21 PK	74.00	-7.79	1.58 H	322	35.78	30.43
4	2483.50	51.21 AV	54.00	-2.79	1.58 H	322	20.78	30.43
5	4804.00	48.30 PK	74.00	-25.70	1.33 H	286	12.87	35.43
6	4804.00	18.20 AV	54.00	-35.80	1.33 H	286	-17.23	35.43
7	4874.00	51.30 PK	74.00	-22.70	1.52 H	23	15.75	35.55
8	4874.00	38.60 AV	54.00	-15.40	1.52 H	23	3.05	35.55
9	7206.00	55.60 PK	74.00	-18.40	1.13 H	159	13.82	41.78
10	7206.00	25.50 AV	54.00	-28.50	1.13 H	159	-16.28	41.78
11	7311.00	64.52 PK	74.00	-9.48	1.00 H	154	22.48	42.04
12	7311.00	50.37 AV	54.00	-3.63	1.00 H	154	8.33	42.04

**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	2390.00	55.60 PK	74.00	-18.40	1.00 V	38	25.54	30.06
2	2390.00	25.30 AV	54.00	-28.70	1.00 V	38	-4.76	30.06
3	4804.00	49.30 PK	74.00	-24.70	1.00 V	54	13.87	35.43
4	4804.00	19.20 AV	54.00	-34.80	1.00 V	54	-16.23	35.43
5	4874.00	50.23 PK	74.00	-23.77	1.05 V	182	14.68	35.55
6	4874.00	43.65 AV	54.00	-10.35	1.05 V	182	8.10	35.55
7	7206.00	51.60 PK	74.00	-22.40	1.12 V	137	9.82	41.78
8	7206.00	21.50 AV	54.00	-32.50	1.12 V	137	-20.28	41.78
9	7311.00	65.38 PK	74.00	-8.62	1.03 V	241	23.34	42.04
10	7311.00	53.24 AV	54.00	-0.76	1.03 V	241	11.20	42.04

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. rrection 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.





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#### 4. 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 according to ISO/IEC 17025:

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:

**Linko EMC/RF Lab:**

Tel: 886-2-26052180

Fax: 886-2-26052943

**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

**Email:** [service@adt.com.tw](mailto:service@adt.com.tw)

**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.

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