

# FCC CERTIFICATION TEST REPORT

REPORT NO.: FC130418C13 MODEL NO.: K008 RECEIVED: Apr. 18, 2013 TESTED: Apr. 22, 2013 ~ Apr. 23, 2013 ISSUED: May 06, 2013

**APPLICANT:** ASUSTek COMPUTER INC.

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**ISSUED BY:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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# **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FC130418C13	Original release.	May 06, 2013



#### CERTIFICATION 1

PRODUCT: ASUS Pad BRAND: ASUS MODEL NO.: K008 APPLICANT: ASUSTek COMPUTER INC. **TESTED:** Apr. 22, 2013 ~ Apr. 23, 2013 **TEST SAMPLE:** Production Unit STANDARD: FCC Part 15, Subpart B, Class B ANSI C63.4:2009

The above equipment (Model: K008) has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, 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 :

Vera Huang, DATE: May 06, 2013

Vera Huang / Specialist

, **DATE** : May 06, 2013

**APPROVED BY :** 

Derrick Dai / Assistant Manager



# 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications.

EMISSION					
Standard	Standard Test Type Res				
FCC Part 15, Subpart B, Class B	Conducted emission test	PASS	Meet the requirement of limit Minimum passing margin is -4.81dB at 0.47400MHz		
	Radiated emission test (30MHz~40GHz)	PASS	Meet the requirement of limit Minimum passing margin is -6.60dB at 30.00MHz		

#### 2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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

Measurement	Frequency	Uncertainty
Conducted emission	150kHz ~ 30MHz	2.44 dB
Dedicted emission	30MHz ~ 1GHz	4.12 dB
Radiated emission	Above 1GHz	2.26 dB

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.



# **3 GENERAL INFORMATION**

#### 3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	ASUS Pad
MODEL NO.	K008
POWER SUPPLY	5.2Vdc (adapter) 3.8Vdc (battery)
I/O PORT	Refer to users' manual
DATA CABLE	Refer to Note as below
ACCESSORY DEVICE	Refer to Note as below

#### NOTE:

- 1. The EUT's highest operating frequency is 5GHz.
- 2. The EUT contains following accessory devices.

ITEM	BRAND	MODEL	DESCRIPTION
AC Adapter 1	ASUS	PSM06A-050Q	I/P: 100-240Vac, 50-60Hz, 0.25A O/P: 5.2Vdc, 1.35A
AC Adapter 2	ASUS	PA-1070-07	I/P: 100-240Vac, 50-60Hz, 0.25A O/P: 5.2Vdc, 1.35A
Li-ion Battery	ASUS	C11P1303	Rating: 3.8Vdc, 15Wh
USB cable	ASUS	AA780300	0.93m non-shielded cable w/o ferrite core
LCD Panel	JDI	LT070ME05000	
Video Camera 1	Liteon	12P2BA536	
Video Camera 2	Chicony	CJAC53220003870LH	
WLAN Module	Qualcomm	WCN3660	
CPU	Qualcomm	APQ8064	1067 NSP (1067 Pin)
eMMC	Hyinix	H26M64002DQR	32G
Mainboard	ASUS	ME571K_MB	

3. The above EUT information is declared by manufacturer and for more detailed feature description, please refer to the manufacturer's specifications or user's manual.



### 3.2 DESCRIPTION OF TEST MODES

#### The EUT was tested with following modes.

Test Mode	Test Condition
	Conducted and Radiated emission test
1	BT Idle + WLAN (2.4G) Idle + Camera + Earphone + Adapter 1 + USB Cable + NFC Rx
2	BT Idle + WLAN (5G) Idle + MPEG4 + Earphone + Adapter 2 + USB Cable + NFC Rx
3	BT Idle + WLAN (2.4G) Idle + H Pattern + Earphone + Adapter 1 + USB Cable + NFC Rx
4	BT Idle + WLAN (5G) Idle + GPS Rx + Earphone + USB Link + USB Cable + NFC Rx

NOTE:

1. For conducted emission test, test mode 2 was the worst case and only this mode was presented in this report.

2. For radiated emission test, test mode 1 was the worst case and only this mode was presented in this report.

#### 3.3 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.

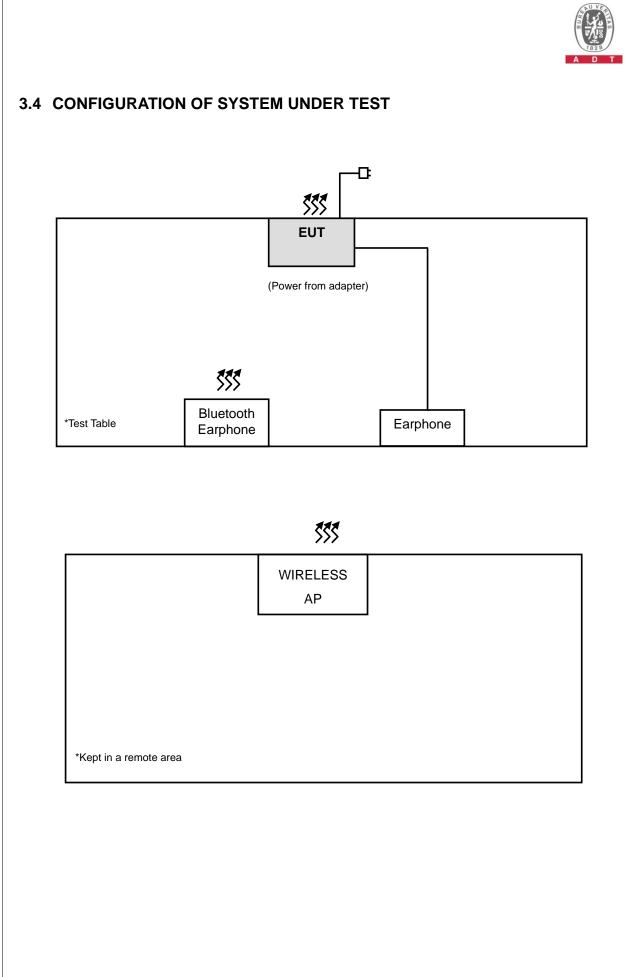
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Wireless AP	BUFFALO	WBR2-G54	34059544811631	FDI-04600142-0
2	BLUETOOTH EARPHONE	ELECOM	LBT-MPHS400	N/A	N/A
3	Earphone	Apple	MB770FE/B	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	NA
3	NA

#### NOTE:

1. All power cords of the above support units are non shielded (1.8m).

2. Items 1 acted as communication partners.





## 4 TEST TYPES AND RESULTS

#### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

#### **TEST STANDARD:**

FCC Part 15, Subpart B (section: 15.107)

	Class A (dBuV)		Class B (dBuV)	
Frequency (MHz)	Quasi-peak	Average	Quasi-peak	Average
0.15-0.5	79	66	66-56	56-46
0.5-5	73	60	56	46
5-30	73	60	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.

### 4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100289	Nov. 16, 2012	Nov. 15, 2013
RF signal cable Woken	5D-FB	Cable-HYC01-01	Dec. 28, 2012	Dec. 27, 2013
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 02, 2012	Jul. 01, 2013
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Feb. 04, 2013	Feb. 03, 2014
Software ADT	BV ADT_Cond_ V7.3.7.3	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 HwaYa Shielded Room 1.

3. The VCCI Site Registration No. is C-2040.



### 4.1.3 TEST PROCEDURES

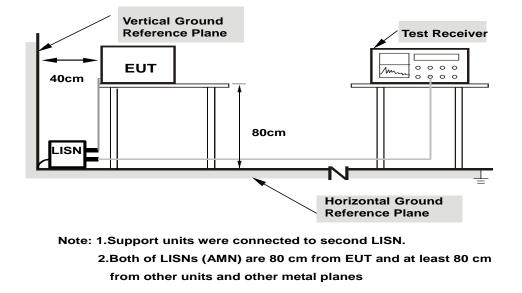
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation.



### 4.1.5 TEST SETUP



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

#### 4.1.6 EUT OPERATING CONDITIONS

- a. Placed the EUT and Bluetooth earphone on a testing table.
- b. The EUT charged from the adapter.
- c. The EUT link with Bluetooth earphone in idle mode.
- d. The EUT ran MPEG4.
- e. The EUT communicated data with the wireless AP, which acted as communication partners.
- f. The necessary accessories enable the system in full functions.



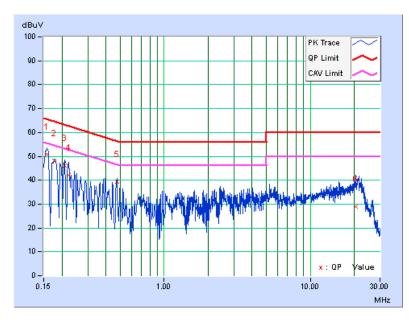
#### 4.1.7 TEST RESULTS

INPUT POWER	120 Vac, 60 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 60% RH	PHASE	Line 1
TESTED BY	Felix Chen		

	Freq.	Corr.	Readin	g Value	Emissio	sion Level Limit		nit	Margin	
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15770	0.16	50.56	31.80	50.72	31.96	65.58	55.58	-14.87	-23.63
2	0.17801	0.16	47.96	30.22	48.12	30.38	64.58	54.58	-16.46	-24.20
3	0.20960	0.16	45.85	27.36	46.01	27.52	63.22	53.22	-17.21	-25.70
4	0.22200	0.17	41.82	24.17	41.99	24.34	62.74	52.74	-20.76	-28.41
5	0.47400	0.23	39.32	36.04	39.55	36.27	56.44	46.44	-16.89	-10.17
6	20.47000	1.25	27.59	16.09	28.84	17.34	60.00	50.00	-31.16	-32.66

#### **REMARKS**:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.

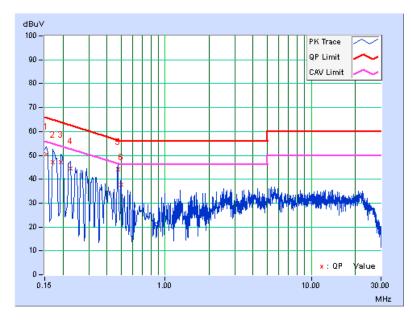




INPUT POWER	120 Vac, 60 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 60% RH	PHASE	Line 2
TESTED BY	Felix Chen		

	Freq.	Corr.	Readin	Reading Value Emission Level		Limit		Margin		
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB (	(uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	0.17	50.50	33.41	50.67	33.58	65.78	55.78	-15.12	-22.21
2	0.17000	0.17	46.84	27.18	47.01	27.35	64.96	54.96	-17.95	-27.61
3	0.19418	0.17	46.90	27.77	47.07	27.94	63.86	53.86	-16.79	-25.92
4	0.22505	0.18	44.42	27.49	44.60	27.67	62.63	52.63	-18.03	-24.96
5	0.47400	0.24	43.73	41.39	43.97	41.63	56.44	46.44	-12.47	-4.81
6	0.50000	0.24	37.46	35.01	37.70	35.25	56.00	46.00	-18.30	-10.75

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.





### 4.2 RADIATED EMISSION MEASUREMENT

#### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

#### TEST STANDARD: FCC Part 15, Subpart B (section: 15.109)

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

	Radiated Emissions Limits at 10 meters (dBµV/m)							
Frequencies (MHz)	FCC 15B/ ICES-003, Class A	CISPR 22, Class A	<i>CISPR 22,</i> Class B					
30-88	39	29.5						
88-216	43.5	33.1	40	30				
216-230	46.4	35.6						
230-960	40.4	55.6	47	27				
960-1000	60-1000 49.5 43.5		47	37				
1000-3000	Avg: 49.5	Avg: 43.5	Not defined	Not defined				
3000+	Peak: 69.5	Peak: 63.5	Not defined	Not defined				

	Radiated Emissions Limits at 3 meters (dBµV/m)							
Frequencies (MHz)	FCC 15B / ICES-003, Class A	CISPR 22, Class A	CISPR 22, Class B					
30-88	49.5	40						
88-216	54	43.5	50.5	40.5				
216-230	56.9	46						
230-960	50.9	40	57.5	47.5				
960-1000	60	54	57.5	47.5				
1000-3000			Avg: 56	Avg: 50				
	Avg: 60	Avg: 54	Peak: 76	Peak: 70				
3000+	Peak: 80	Peak: 74	Avg: 60 Peak: 80	Avg: 54 Peak: 74				

**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. QP detector shall be applied if not specified.



#### 4.2.2 TEST INSTRUMENTS

#### Frequency range 30MHz~1GHz

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ (V)	ESIB7	100187	Dec. 27, 2012	Dec. 26, 2013
Test Receiver ROHDE & SCHWARZ (H)	ESIB7	100186	Nov. 28, 2012	Nov. 27, 2013
BILOG Antenna SCHWARZBECK (V)	VULB9168	9168-148	Mar. 19, 2013	Mar. 18, 2014
BILOG Antenna SCHWARZBECK (H)	VULB9168	9168-149	Mar. 19, 2013	Mar. 19, 2014
Preamplifier Agilent (V)	8447D	2944A10636	Oct. 20, 2012	Oct. 19, 2013
Preamplifier Agilent (H)	8447D	2944A10637	Oct. 20, 2012	Oct. 19, 2013
Preamplifier Agilent	8449B	3008A01959	Oct. 25, 2012	Oct. 24, 2013
RF signal cable Woken (V)	8D-FB	Cable-Hych1-01	Oct. 26, 2012	Oct. 25, 2013
RF signal cable Woken (H)	8D-FB	Cable-Hych1-02	Oct. 26, 2012	Oct. 25, 2013
Software ADT	BV ADT_Radiated_ V 7.7.03.8	NA	NA	NA
Antenna Tower (V)	MFA-440	9707	NA	NA
Antenna Tower (H)	MFA-440	970705	NA	NA
Turn Table	DS430	50303	NA	NA
Controller (V)	MF7802	074	NA	NA
Controller (H)	MF7802	08093	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 HwaYa Chamber 1.

3. The FCC Site Registration No. is 477732.

4. The IC Site Registration No. is IC 7450F-1.

5. The VCCI Site Registration No. is R-1893.



### Frequency range above 1GHz

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESIB7	100188	May 11, 2012	May 10, 2013
Spectrum Analyzer Agilent	E4446A	MY48250266	Aug. 29, 2012	Aug. 28, 2013
BILOG Antenna SCHWARZBECK	VULB9168	9168-157	Mar. 20, 2013	Mar. 19, 2014
RF signal cable Worken	8D-FB	NA	Mar. 23, 2013	Mar. 22, 2014
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-404	Dec. 22, 2012	Dec. 21, 2013
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Dec. 25, 2012	Dec. 24, 2013
Preamplifier Agilent (Below 1GHz)	8447D	2944A10629	Oct. 26, 2012	Oct. 25, 2013
Preamplifier Agilent (Above 1GHz)	8449B	3008A01959	Oct. 25, 2012	Oct. 24, 2013
RF signal cable HUBER+SUHNER	SUCOFLEX 104	230132/4	Oct. 26, 2012	Oct. 25, 2013
RF signal cable HUBER+SUHNER	SUCOFLEX 104	309223/4+309 218/4	Oct. 26, 2012	Oct. 25, 2013
Software ADT.	BV ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower ADT.	AT100	AT93021702	NA	NA
Turn Table ADT.	TT100	TT93021702	NA	NA
Controller ADT.	SC100	SC93021702	NA	NA
Fix tool for Boresight antenna tower	BAF-01	2	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 HwaYa Chamber 2.

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

- 4. The FCC Site Registration No. is 686814.
- 5. The IC Site Registration No. is IC 7450F-2.
- 6. The VCCI Site Registration No. is G-18.



### 4.2.3 TEST PROCEDURES

#### Frequency range 30MHz~1GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 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 quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.
- **NOTE:** The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-Peak (QP) detection at frequency below 1GHz.



#### Frequency range above 1GHz

- 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 room. 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 height of antenna can be varied from 1 meter to 4 meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect 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 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 and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.

#### NOTE:

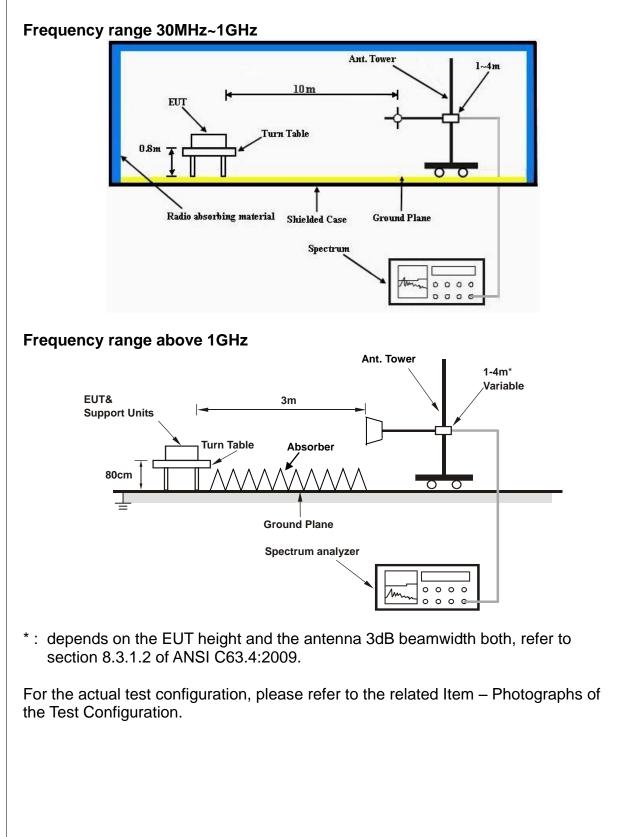
- 1. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak (PK) detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz for Average (AV) detection at frequency above 1GHz.
- 2. For measurement of frequency above 1000MHz, the EUT was set 3 meters away from the receiver antenna.

### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation.



### 4.2.5 TEST SETUP





### 4.2.6 EUT OPERATING CONDITIONS

- a. Placed the EUT and Bluetooth earphone on a testing table.
- b. The EUT charged from the adapter.
- c. The EUT link with Bluetooth earphone in idle mode.
- d. Turn on Camera.
- e. The EUT communicated data with the wireless AP, which acted as communication partners.
- f. The necessary accessories enable the system in full functions.



### 4.2.7 TEST RESULTS

INPUT POWER	120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 58% RH	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak , 120 kHz
TESTED BY	Pon Tsai		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 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	96.09	16.52 QP	30.00	-13.48	4.00 H	142	35.78	-19.26
2	162.18	18.82 QP	30.00	-11.18	4.00 H	142	32.06	-13.24
3	171.90	19.35 QP	30.00	-10.65	4.00 H	140	33.00	-13.65
4	191.34	17.24 QP	30.00	-12.76	4.00 H	149	32.98	-15.74
5	288.54	19.42 QP	37.00	-17.58	3.00 H	138	31.34	-11.92
6	383.79	19.74 QP	37.00	-17.26	3.00 H	339	29.63	-9.89

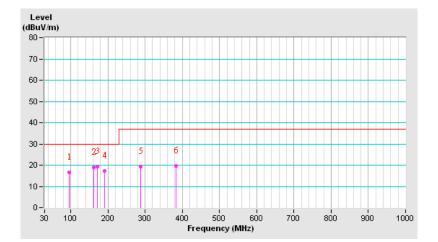
#### REMARKS:

: 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.

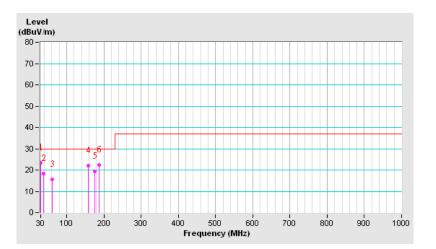




INPUT POWER	120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 58% RH	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak , 120 kHz
TESTED BY	Pon Tsai		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 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	30.00	23.40 QP	30.00	-6.60	1.00 V	288	38.98	-15.58
2	37.78	18.32 QP	30.00	-11.68	1.00 V	312	33.29	-14.97
3	61.10	15.45 QP	30.00	-14.55	3.00 V	199	30.00	-14.55
4	158.30	22.14 QP	30.00	-7.86	1.00 V	261	35.56	-13.42
5	175.79	19.25 QP	30.00	-10.75	1.00 V	197	33.09	-13.84
6	187.45	22.31 QP	30.00	-7.69	1.00 V	321	37.13	-14.82

- 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.



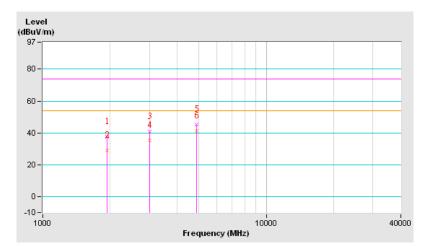


INPUT POWER	120 Vac, 60 Hz	FREQUENCY RANGE	1-40 GHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 60% RH	DETECTOR FUNCTION & BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Felix Chen		

	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	1937.88	37.77 PK	74.00	-36.23	1.00 H	19	40.57	-2.80	
2	1937.88	29.21 AV	54.00	-24.79	1.00 H	19	32.01	-2.80	
3	2995.98	40.75 PK	74.00	-33.25	1.00 H	103	38.91	1.84	
4	2995.98	35.52 AV	54.00	-18.48	1.00 H	103	33.68	1.84	
5	4883.77	45.54 PK	74.00	-28.46	1.50 H	41	38.04	7.50	
6	4883.77	41.07 AV	54.00	-12.93	1.50 H	41	33.57	7.50	

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.





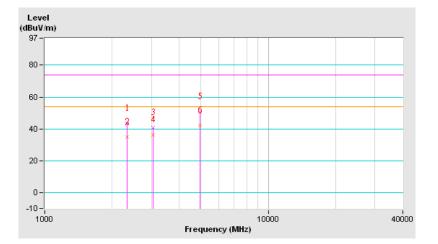
INPUT POWER	120 Vac, 60 Hz	FREQUENCY RANGE	1-40 GHz	
ENVIRONMENTAL CONDITIONS	20 deg. C, 60% RH	DETECTOR FUNCTION & BANDWIDTH	Peak/Average, 1 MHz	
TESTED BY	Felix Chen			

	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	2334.67	43.39 PK	74.00	-30.61	1.50 V	35	44.45	-1.06	
2	2334.67	34.92 AV	54.00	-19.08	1.50 V	35	35.98	-1.06	
3	3044.09	40.58 PK	74.00	-33.42	1.50 V	4	38.53	2.05	
4	3044.09	36.07 AV	54.00	-17.93	1.50 V	4	34.02	2.05	
5	4931.86	50.75 PK	74.00	-23.25	1.50 V	191	43.19	7.56	
6	4931.86	42.07 AV	54.00	-11.93	1.50 V	191	34.51	7.56	

**S**: 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** PHOTOGRAPHS OF THE TEST CONFIGURATION

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



# 6 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.

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.



### 7 APPENDIX A – MODIFICATION RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

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