FCC TEST REPORT

FCC ID : WOEBT-01A

Applicant : ESTON TECHNOLOGY LIMITED

Room 501,5/F, Assun Pacific Centre, 41Tsun Yip street, Kwun Tong, Kowloon,

Hong Kong

Equipment Under Test (EUT):

Product description : Bluetooth Handsfree Rearview Mirror Car Kit

Model No. : BT-01A

Standards : FCC 15 Paragraph 15.247

Date of Test : Sept. 1, 2008

Test Engineer : Nunu.Deng

Reviewed By : Thelo 2hous

PERPARED BY:

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3 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission (30MHz to 25GHz)	FCC PART 15: 2003	ANSI C63.4: 2003	N/A	PASS
Conducted Emission (150KHz to 30MHz)	FCC PART 15: 2003	ANSI C63.4: 2003	N/A	N/A

4 General Information

4.1 Client Information

Applicant: ESTON TECHNOLOGY LIMITED

Address of Applicant: Room 501,5/F,Assun Pacific Centre,41Tsun Yip street,Kwun

Tong, Kowloon, Hong Kong

4.2 General Description of E.U.T.

Product description: Bluetooth Handsfree Rearview Mirror Car Kit

Model No.: BT-01A

4.3 Details of E.U.T.

Power Supply: Car charge Input: 10V-24V

Output:DC 5V

4.4 Description of Support Units

The EUT has been tested as an independent unit.

4.5 Standards Applicable for Testing

The customer requested FCC tests for a Bluetooth Handsfree Rearview Mirror Car Kit. The standards used were FCC 15 Paragraph 15.247, Paragraph 15.205, Paragraph 15.207, Paragraph 15.209, Paragraph 15.31, Paragraph 15.33, Paragraph 15.35.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• IC – Registration No.:IC7760

Waltek Services(Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration IC7760.

• FCC – Registration No.: 880581

Waltek Services(Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, June 24, 2008. compliance

4.7 Test Location

All Emissions testswere performed at:-

Waltek Services(Shenzhen) Co., Ltd. at 1/F, Fukangtai Building, West Baima Rd., Songgang Street, Baoan District, Shenzhen 518105, China.

5 Equipment Used during Test

Equipment	Brand Name	Model	Related standards	Cal.Intal	Last	Serial No					
				Months	Cal.						
					Date						
3m Semi-anechoic chamber											
EMC Analyzer	Agilent	E7405A	ISO9001:2000	12	Aug-08	MY4511494					
						3					
Active Loop	Beijing Dazhi	ZN30900A	ISO 9001	12	Jul -08	-					
Antenna											
Trilog Broadband	SCHWARZBECK	VULB9163	EN/ISO/IEC 17025	12	Aug-08	336					
Antenne	MESS-		DIN EN ISO9001								
	ELEKTROM										
Broad-band Horn	SCHWARZBECK	BBHA 9120	EN/ISO/IEC 17025	12	Aug-08	667					
Antenna	MESS-	D	DIN EN ISO9001								
	ELEKTROM										
Broadband	SCHWARZBECK	BBV 9718	EN/ISO/IEC 17025	12	Aug-08	9718-148					
Preamplifier	MESS-		DIN EN ISO9001								
	ELEKTROM										
10m Coaxial	SCHWARZBECK	AK 9515 H	EN/ISO/IEC 17025	12	Aug-08	-					
Cable with N-	MESS-		DIN EN ISO9001								
male Connectors	ELEKTROM										
usable											
10m 50 Ohm	SCHWARZBECK	AK 9513	EN/ISO/IEC 17025	12	Aug-08	-					
Coaxial Cable	MESS-		DIN EN ISO9001								
with N-	ELEKTROM										
plug,individual											
length,usable up											
to 3(5)GHz,											
Connectors											
Positioning	C&C LAB	CC-C-IF	ISO9001	12	Aug-08	MF7802108					
Controller											
Color Monitor	SUNSPO	SP-14C	ISO9001	12	Aug-08	_					
EMI Shielded Roo	m				T	1					
Test Receiver	ROHDE&SCHWA	ESPI	ISO9001	12	Jul-08	101155					

	RZ					
Two-Line V-	ROHDE&SCHWA	ENV216	ISO9001	12	Jul-08	100115
Network	RZ		EN/ISO/IEC 17025			
Absorbing Clamp	ROHDE&SCHWA	MDS-21	ISO9001	12	Jul-08	100205
	RZ		EN/ISO/IEC 17025			
10m 50 Ohm	SCHWARZBECK	AK 9514	EN/ISO/IEC 17025	12	Aug-08	-
Coaxial Cable	MESS-		DIN EN ISO9001			
with N-	ELEKTROM					
plug,individual						
length,usable up						
to 3(5)GHz,						
Connectors						

6 Conducted Emission Test

Test Requirement: FCC Part15 Paragraph 15.207

Test Method: Based on FCC Part15 Paragraph 15.207

Test Date:

Frequency Range: 150kHz to 30MHz

Class B

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)

Quasi-Peak & Average if maximised peak within 6dB of

Average Limit

6.1 Test Equipment

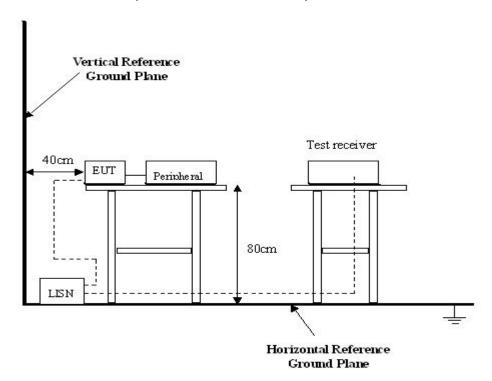
Please refer to Section 5 this report.

6.2 Test Procedure

- 1. The EUT was connected with signal generator and placed on a table.
- 2. The EUT was tested according to ANSI C63.4:2003. The frequency spectrum from 150kHz to 30MHz was investigated.
- 3. The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

6.3 Conducted Test Setup

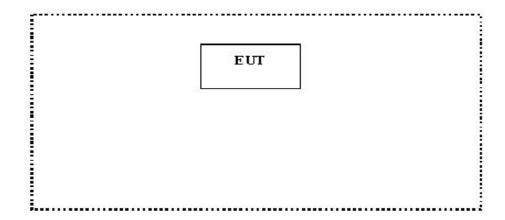
The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC Part15 Paragraph 15.207 limits.



6.4 EUT Operating Condition

Operating condition is according to ANSI C63.4:2003.

- A. Setup the EUT and simulators as shown on follow.
- B. Enable RF signal and confirm EUT active.
- C. Modulate output capacity of EUT up to specification.



6.5 Conducted Emission Limits

 $66\text{-}56~dB\mu V/m$ between 0.15MHz~&~0.5MHz $56~dB\mu V/m$ between 0.5MHz~&~5MHz $60~dB\mu V/m$ between 5MHz~&~30MHz

Note: In the above limits, the tighter limit applies at the band edges.

6.6 Conducted Emission Test Data

Owing to the DC operation of EUT, this test is not performed.

7 Radiation Emission Test

Test Requirement: FCC Part15 Paragraph 15.247
Test Method: Based on ANSI 63.4:2003

Test Date: Sep. 1,2008

Frequency Range: 30MHz to 25GHz

Measurement Distance: 3m

Detector: Peak for pre-scan (120kHz resolution bandwidth)

Quasi-Peak if maximised peak within 6dB of limit

7.1 Test Equipment

Please refer to Section 5 this report.

7.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

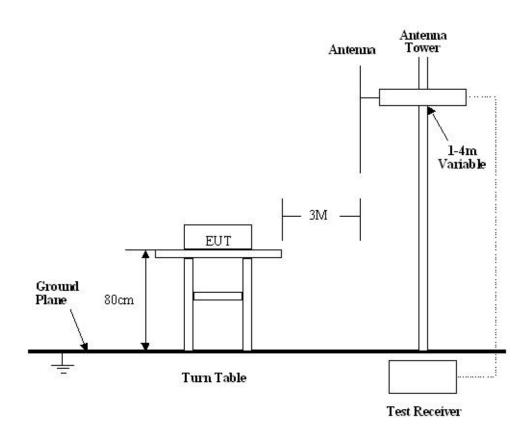
Based on ANSI C63.4:2003, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at WALTEK SERVICES EMC Lab is +2.9dB.

7.3 Test Procedure

- 1. The EUT was placed on a turntable.
- 2. Maximizing procedure was performed on the six (6) highest emissions to ensure EUT is compliant with all installation combinations.
- 3. All data was recorded in the peak and average detection mode.
- 4. The EUT was under normal mode during the final qualification test and the configuration was used to represent the worst case results.

7.4 Radiated Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4:2003, The specification used in this report was the FCC Part15 Paragraph 15.209 limits and Paragraph 15.247 limits.



7.5 Spectrum Analyzer Setup

According to FCC Part15 Paragraph 15.247 Rules, the system was tested to 25000 MHz.

Start Frequency	30 MHz
Stop Frequency	25000 MHz
Sweep Speed Auto	
IF Bandwidth	100 kHz
Video Bandwidth	1 MHz
Quasi-Peak Adapter Bandwidth	120 kHz
Quasi-Peak Adapter Mode	Normal
Resolution Bandwidth	1MHz

7.6 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-7dB\mu V$ means the emission is $7dB\mu V$ below the maximum limit for Class B. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – Class B Limit

7.7 Summary of Test Results

According to the data in section 7.11, the EUT complied with the FCC Part15 Paragraph 15.247 standards.

7.8 EUT Operating Condition

Same as section 6.4 of this report.

Let the EUT work in test mode and test it.

7.9 Radiated Emissions Limit on Paragraph 15.209

Frequency(MHZ)	Distance(m)	Field strength(dBuV/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- (1) RF Voltage(dBuV)=20 log RF Voltage(uV)
- (2) In the Above Table, the tighter limit applies at the band edges.
- (3) Distance refers to the distance in meters between the measuring instrument antenna.
- (4)The emission limit in this paragraph is based on measurement instrumentation employing an average detector. Measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
- (5)Above 1GHz,do a Peak and average measurements for all emissions,Limit for peak is 74dBuvV/m,According to Part15.35(b) and average is 54BuvV/m.

7.10 Radiated Emissions Test Result

Formula of conversion factors:the field strength at 3m was egtablished by adding The meter reading of the spectrum analyer (which is set to read in units of dBuV) To the antenna correction factor supplied by the antenna manufacturer. The antenna Correction factors are stared in terms of dB. The gain of the pressletor was accounted For in the spectrum analyser meter reading.

Example:

Freq(MHz) Meter Reading +ACF=FS

33 20dBuV+10.36dB=30.36dBuV/m @3m

7.11 Radiated Emission Data

A. Test Item: Radiated Emission Data

Test Voltage: 12VDC
Test Mode: TX On
Temperature: 24 °C
Humidity: 52%RH
Test Result: PASS

Remarks: 30-1000MHz radiation test no significant emissions above the equipment noise floor were detected.

Frequenc y (MHz)	Detect or	Antenna Polarizat ion	Emissio n Level (dBuV/ m)	FCC 15 Subpart C Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Turntab le Angle (°)
			Low f	requency			
2402.00	AV	Vertical	93.27		(Fund.)	1.5	90
4804.00	AV	Vertical	29.15	54.00	-24.85	1.5	120
7206.00	AV	Vertical	26.79	54.00	-27.21	1.4	100
9608.00	AV	Vertical	27.82	54.00	-26.18	1.5	90
12010.00	AV	Vertical	27.53	54.00	-26.47	1.0	60
14412.00	AV	Vertical	28.07	54.00	-25.93	1.5	60
16814.00	AV	Vertical	27.93	54.00	-26.07	1.5	100
19216.00	AV	Vertical	25.45	54.00	-28.55	1.4	100
21618.00	AV	Vertical	26.94	54.00	-27.06	1.5	100
24020.00	AV	Vertical	22.17	54.00	-31.83	1.0	90

	1	,			_		
2402.00	AV	Horizontal	92.74		(Fund.)	1.5	90
4804.00	AV	Horizontal	28.70	54.00	-25.3	1.6	100
7206.00	AV	Horizontal	27.16	54.00	-26.84	1.5	60
9608.00	AV	Horizontal	27.03	54.00	-26.97	1.0	90
12010.00	AV	Horizontal	26.21	54.00	-27.79	1.8	100
14412.00	AV	Horizonta	26.36	54.00	-27.64	1.0	120
16814.00	AV	Horizontal	26.74	54.00	-27.26	1.8	100
19216.00	AV	Horizontal	27.22	54.00	-26.78	1.5	90
21618.00	AV	Horizontal	27.53	54.00	-26.47	1.5	60
24020.00	AV	Horizontal	27.36	54.00	-26.64	1.0	60
2402.00	PK	Vertical	103.64		(Fund.)	1.5	90
4804.00	PK	Vertical	40.70	74.00	-33.3	1.5	100
7206.00	PK	Vertical	37.88	74.00	-36.12	1.8	120
9608.00	PK	Vertical	37.42	74.00	-36.58	1.8	100
12010.00	PK	Vertical	35.63	74.00	-38.37	1.0	90
14412.00	PK	Vertical	37.77	74.00	-36.23	1.8	90
16814.00	PK	Vertical	35.89	74.00	-38.11	1.0	60
19216.00	PK	Vertical	38.67	74.00	-35.33	1.8	100
21618.00	PK	Vertical	38.78	74.00	-35.22	1.5	120
24020.00	PK	Vertical	34.31	74.00	-39.69	1.5	45
2402.00	PK	Horizontal	101.19		(Fund.)	1.5	45
4804.00	PK	Horizontal	40.21	74.00	-33.79	1.6	60
7206.00	PK	Horizontal	36.44	74.00	-37.56	1.5	100
9608.00	PK	Horizontal	37.33	74.00	-36.67	1.0	90
12010.00	PK	Horizontal	33.19	74.00	-40.81	1.0	60
14412.00	PK	Horizontal	33.62	74.00	-40.38	1.5	60
16814.00	PK	Horizontal	30.73	74.00	-43.27	1.8	100
19216.00	PK	Horizontal	33.57	74.00	-40.43	1.8	120
21618.00	PK	Horizontal	33.59	74.00	-40.41	1.8	180
24020.00	PK	Horizontal	35.88	74.00	-38.12	1.0	120
			Middle	frequency			
2441.00	AV	Vertical	93.74		(Fund.)	1.5	90
4882.00	AV	Vertical	29.53	54.00	-24.47	1.5	90
7323.00	AV	Vertical	28.26	54.00	-25.74	1.6	60

		, ,			1		
9764.00	AV	Vertical	28.37	54.00	-25.63	1.0	100
12205.00	AV	Vertical	27.87	54.00	-26.13	1.8	100
14646.00	AV	Vertical	27.42	54.00	-26.58	1.0	90
17087.00	AV	Vertical	27.54	54.00	-26.46	1.6	100
19528.00	AV	Vertical	27.17	54.00	-26.83	1.6	110
21969.00	AV	Vertical	26.68	54.00	-27.32	1.5	90
24410.00	AV	Vertical	26.88	54.00	-27.12	1.0	90
2441.00	AV	Horizontal	93.25		(Fund.)	1.5	100
4882.00	AV	Horizontal	25.79	54.00	-28.21	1.5	100
7323.00	AV	Horizontal	25.39	54.00	-28.61	1.8	90
9764.00	AV	Horizontal	25.61	54.00	-28.39	1.0	100
12205.00	AV	Horizontal	24.87	54.00	-29.13	1.8	120
14646.00	AV	Horizontal	24.69	54.00	-29.31	1.6	90
17087.00	AV	Horizontal	24.26	54.00	-29.74	1.5	100
19528.00	AV	Horizontal	23.88	54.00	-30.12	1.8	110
21969.00	AV	Horizontal	22.97	54.00	-31.03	1.6	120
24410.00	AV	Horizontal	22.86	54.00	-31.14	1.0	120
2441.00	PK	Vertical	110.14		(Fund.)	1.5	120
4882.00	PK	Vertical	38.59	74.00	-35.41	1.5	60
7323.00	PK	Vertical	32.69	74.00	-41.31	1.5	90
9764.00	PK	Vertical	32.31	74.00	-41.69	1.6	100
12205.00	PK	Vertical	31.87	74.00	-42.13	1.5	120
14646.00	PK	Vertical	31.36	74.00	-42.64	1.4	90
17087.00	PK	Vertical	31.44	74.00	-42.56	1.4	180
19528.00	PK	Vertical	31.80	74.00	-42.2	1.5	120
21969.00	PK	Vertical	30.22	74.00	-43.78	1.6	100
24410.00	PK	Vertical	30.79	74.00	-43.21	1.8	90
2441.00	PK	Horizontal	109.75		(Fund.)	1.5	100
4882.00	PK	Horizontal	35.53	74.00	-38.47	1.6	100
7323.00	PK	Horizontal	33.72	74.00	-40.28	1.5	90
9764.00	PK	Horizontal	33.28	74.00	-40.72	1.5	90
12205.00	PK	Horizontal	33.01	74.00	-40.99	1.6	100
14646.00	PK	Horizontal	32.94	74.00	-41.06	1.0	120
17087.00	PK	Horizontal	32.19	74.00	-41.81	1.8	100

19528.00												
24410.00 PK Horizontal 31.95 74.00 -42.05 1.6 100 High frequency 2480.00 AV Vertical 90.61 (Fund.) 1.5 100 4960.00 AV Vertical 33.14 54.00 -20.86 1.5 100 7440.00 AV Vertical 28.15 54.00 -25.85 1.5 120 9920.00 AV Vertical 28.09 54.00 -25.91 1.6 90 12400.00 AV Vertical 28.36 54.00 -25.64 1.5 100 14880.00 AV Vertical 27.54 54.00 -26.46 1.5 100 17360.00 AV Vertical 27.95 54.00 -26.05 1.6 120 19840.00 AV Vertical 27.95 54.00 -26.61 1.5 90 2480.00 AV Vertical 27.39 54.00 -27.06 1.5 <	19528.00	PK	Horizontal	32.85	74.00	-41.15	1.5	120				
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9920.00 AV Vertical 28.09 54.00 -25.91 1.6 90 12400.00 AV Vertical 28.36 54.00 -25.64 1.5 100 14880.00 AV Vertical 27.54 54.00 -26.46 1.5 100 17360.00 AV Vertical 27.95 54.00 -26.05 1.6 120 19840.00 AV Vertical 28.06 54.00 -25.94 1.4 90 22320.00 AV Vertical 27.39 54.00 -26.61 1.5 90 2480.00 AV Horizontal 91.90 (Fund.) 1.5 80 2480.00 AV Horizontal 30.35 54.00 -26.23 1.5 100 4960.00 AV Horizontal 31.47 54.00 -22.53 1.0 80 12400.00 AV Horizontal 31.89 54.00 -22.11 1.6 90 14880.00	4960.00	AV	Vertical	33.14	54.00	-20.86	1.5	100				
12400.00 AV Vertical 28.36 54.00 -25.64 1.5 100 14880.00 AV Vertical 27.54 54.00 -26.46 1.5 100 17360.00 AV Vertical 27.95 54.00 -26.05 1.6 120 19840.00 AV Vertical 28.06 54.00 -25.94 1.4 90 22320.00 AV Vertical 27.39 54.00 -26.61 1.5 90 2480.00 AV Vertical 26.94 54.00 -27.06 1.5 80 2480.00 AV Horizontal 91.90 (Fund.) 1.5 100 4960.00 AV Horizontal 30.35 54.00 -26.23 1.5 100 7440.00 AV Horizontal 31.47 54.00 -22.53 1.0 80 12400.00 AV Horizontal 31.17 54.00 -21.58 1.0 100 17360.00	7440.00	AV	Vertical	28.15	54.00	-25.85	1.5	120				
14880.00 AV Vertical 27.54 54.00 -26.46 1.5 100 17360.00 AV Vertical 27.95 54.00 -26.05 1.6 120 19840.00 AV Vertical 28.06 54.00 -25.94 1.4 90 22320.00 AV Vertical 27.39 54.00 -26.61 1.5 90 24800.00 AV Vertical 26.94 54.00 -27.06 1.5 80 2480.00 AV Horizontal 91.90 (Fund.) 1.5 100 4960.00 AV Horizontal 30.35 54.00 -26.23 1.5 100 7440.00 AV Horizontal 31.47 54.00 -22.53 1.0 80 12400.00 AV Horizontal 31.89 54.00 -22.11 1.6 90 14880.00 AV Horizontal 30.55 54.00 -21.58 1.0 100 17360.00	9920.00	AV	Vertical	28.09	54.00	-25.91	1.6	90				
17360.00 AV Vertical 27.95 54.00 -26.05 1.6 120 19840.00 AV Vertical 28.06 54.00 -25.94 1.4 90 22320.00 AV Vertical 27.39 54.00 -26.61 1.5 90 2480.00 AV Vertical 26.94 54.00 -27.06 1.5 80 2480.00 AV Horizontal 91.90 (Fund.) 1.5 100 4960.00 AV Horizontal 27.77 54.00 -26.23 1.5 100 7440.00 AV Horizontal 30.35 54.00 -23.65 1.5 90 9920.00 AV Horizontal 31.47 54.00 -22.53 1.0 80 12400.00 AV Horizontal 31.47 54.00 -22.11 1.6 90 14880.00 AV Horizontal 31.17 54.00 -22.83 1.4 120 19840.00	12400.00	AV	Vertical	28.36	54.00	-25.64	1.5	100				
19840.00 AV Vertical 28.06 54.00 -25.94 1.4 90 22320.00 AV Vertical 27.39 54.00 -26.61 1.5 90 24800.00 AV Vertical 26.94 54.00 -27.06 1.5 80 2480.00 AV Horizontal 91.90 (Fund.) 1.5 100 4960.00 AV Horizontal 27.77 54.00 -26.23 1.5 100 7440.00 AV Horizontal 30.35 54.00 -23.65 1.5 90 9920.00 AV Horizontal 31.47 54.00 -22.53 1.0 80 12400.00 AV Horizontal 31.89 54.00 -22.11 1.6 90 14880.00 AV Horizontal 31.17 54.00 -21.58 1.0 100 17360.00 AV Horizontal 30.55 54.00 -23.45 1.5 100 224800.00 </td <td>14880.00</td> <td>AV</td> <td>Vertical</td> <td>27.54</td> <td>54.00</td> <td>-26.46</td> <td>1.5</td> <td>100</td>	14880.00	AV	Vertical	27.54	54.00	-26.46	1.5	100				
22320.00 AV Vertical 27.39 54.00 -26.61 1.5 90 24800.00 AV Vertical 26.94 54.00 -27.06 1.5 80 2480.00 AV Horizontal 91.90 (Fund.) 1.5 100 4960.00 AV Horizontal 27.77 54.00 -26.23 1.5 100 7440.00 AV Horizontal 30.35 54.00 -23.65 1.5 90 9920.00 AV Horizontal 31.47 54.00 -22.53 1.0 80 12400.00 AV Horizontal 31.89 54.00 -22.11 1.6 90 14880.00 AV Horizontal 32.42 54.00 -21.58 1.0 100 17360.00 AV Horizontal 30.55 54.00 -22.83 1.4 120 19840.00 AV Horizontal 32.86 54.00 -21.14 1.3 100 24800.00	17360.00	AV	Vertical	27.95	54.00	-26.05	1.6	120				
24800.00 AV Vertical 26.94 54.00 -27.06 1.5 80 2480.00 AV Horizontal 91.90 (Fund.) 1.5 100 4960.00 AV Horizontal 27.77 54.00 -26.23 1.5 100 7440.00 AV Horizontal 30.35 54.00 -23.65 1.5 90 9920.00 AV Horizontal 31.47 54.00 -22.53 1.0 80 12400.00 AV Horizontal 31.89 54.00 -22.11 1.6 90 14880.00 AV Horizontal 32.42 54.00 -21.58 1.0 100 17360.00 AV Horizontal 30.55 54.00 -22.83 1.4 120 19840.00 AV Horizontal 32.86 54.00 -21.14 1.3 100 22320.00 AV Horizontal 33.25 54.00 -20.75 1.6 60 2480.0	19840.00	AV	Vertical	28.06	54.00	-25.94	1.4	90				
2480.00 AV Horizontal 91.90 (Fund.) 1.5 100 4960.00 AV Horizontal 27.77 54.00 -26.23 1.5 100 7440.00 AV Horizontal 30.35 54.00 -23.65 1.5 90 9920.00 AV Horizontal 31.47 54.00 -22.53 1.0 80 12400.00 AV Horizontal 31.89 54.00 -22.11 1.6 90 14880.00 AV Horizontal 32.42 54.00 -21.58 1.0 100 17360.00 AV Horizontal 31.17 54.00 -22.83 1.4 120 19840.00 AV Horizontal 30.55 54.00 -23.45 1.5 100 22320.00 AV Horizontal 33.25 54.00 -21.14 1.3 100 24800.00 PK Vertical 107.66 (Fund.) 1.5 90 4960.00 P	22320.00	AV	Vertical	27.39	54.00	-26.61	1.5	90				
4960.00 AV Horizontal 27.77 54.00 -26.23 1.5 100 7440.00 AV Horizontal 30.35 54.00 -23.65 1.5 90 9920.00 AV Horizontal 31.47 54.00 -22.53 1.0 80 12400.00 AV Horizontal 31.89 54.00 -22.11 1.6 90 14880.00 AV Horizontal 32.42 54.00 -21.58 1.0 100 17360.00 AV Horizontal 31.17 54.00 -21.58 1.0 100 19840.00 AV Horizontal 30.55 54.00 -23.45 1.5 100 22320.00 AV Horizontal 32.86 54.00 -21.14 1.3 100 2480.00 PK Vertical 107.66 (Fund.) 1.5 90 4960.00 PK Vertical 35.80 74.00 -38.2 1.5 100 9920.00<	24800.00	AV	Vertical	26.94	54.00	-27.06	1.5	80				
7440.00 AV Horizontal 30.35 54.00 -23.65 1.5 90 9920.00 AV Horizontal 31.47 54.00 -22.53 1.0 80 12400.00 AV Horizontal 31.89 54.00 -22.11 1.6 90 14880.00 AV Horizontal 32.42 54.00 -21.58 1.0 100 17360.00 AV Horizontal 31.17 54.00 -22.83 1.4 120 19840.00 AV Horizontal 30.55 54.00 -23.45 1.5 100 22320.00 AV Horizontal 32.86 54.00 -21.14 1.3 100 2480.00 AV Horizontal 33.25 54.00 -20.75 1.6 60 2480.00 PK Vertical 107.66 (Fund.) 1.5 90 4960.00 PK Vertical 35.80 74.00 -38.2 1.5 100 9920.00 </td <td>2480.00</td> <td>AV</td> <td>Horizontal</td> <td>91.90</td> <td></td> <td>(Fund.)</td> <td>1.5</td> <td>100</td>	2480.00	AV	Horizontal	91.90		(Fund.)	1.5	100				
9920.00 AV Horizontal 31.47 54.00 -22.53 1.0 80 12400.00 AV Horizontal 31.89 54.00 -22.11 1.6 90 14880.00 AV Horizontal 32.42 54.00 -21.58 1.0 100 17360.00 AV Horizontal 31.17 54.00 -22.83 1.4 120 19840.00 AV Horizontal 30.55 54.00 -23.45 1.5 100 22320.00 AV Horizontal 32.86 54.00 -21.14 1.3 100 24800.00 AV Horizontal 33.25 54.00 -20.75 1.6 60 2480.00 PK Vertical 107.66 (Fund.) 1.5 90 4960.00 PK Vertical 35.80 74.00 -38.2 1.5 100 9920.00 PK Vertical 35.37 74.00 -38.63 1.8 90 12400.00 </td <td>4960.00</td> <td>AV</td> <td>Horizontal</td> <td>27.77</td> <td>54.00</td> <td>-26.23</td> <td>1.5</td> <td>100</td>	4960.00	AV	Horizontal	27.77	54.00	-26.23	1.5	100				
12400.00 AV Horizontal 31.89 54.00 -22.11 1.6 90 14880.00 AV Horizontal 32.42 54.00 -21.58 1.0 100 17360.00 AV Horizontal 31.17 54.00 -22.83 1.4 120 19840.00 AV Horizontal 30.55 54.00 -23.45 1.5 100 22320.00 AV Horizontal 32.86 54.00 -21.14 1.3 100 24800.00 AV Horizontal 33.25 54.00 -20.75 1.6 60 2480.00 PK Vertical 107.66 (Fund.) 1.5 90 4960.00 PK Vertical 35.80 74.00 -33.5 1.5 100 7440.00 PK Vertical 35.37 74.00 -38.63 1.8 90 12400.00 PK Vertical 34.19 74.00 -39.81 1.6 60 17360.00 <td>7440.00</td> <td>AV</td> <td>Horizontal</td> <td>30.35</td> <td>54.00</td> <td>-23.65</td> <td>1.5</td> <td>90</td>	7440.00	AV	Horizontal	30.35	54.00	-23.65	1.5	90				
14880.00 AV Horizontal 32.42 54.00 -21.58 1.0 100 17360.00 AV Horizontal 31.17 54.00 -22.83 1.4 120 19840.00 AV Horizontal 30.55 54.00 -23.45 1.5 100 22320.00 AV Horizontal 32.86 54.00 -21.14 1.3 100 24800.00 AV Horizontal 33.25 54.00 -20.75 1.6 60 2480.00 PK Vertical 107.66 (Fund.) 1.5 90 4960.00 PK Vertical 40.50 74.00 -33.5 1.5 100 7440.00 PK Vertical 35.37 74.00 -38.63 1.8 90 12400.00 PK Vertical 35.36 74.00 -38.64 1.0 90 14880.00 PK Vertical 34.57 74.00 -39.43 1.5 70 19840.00	9920.00	AV	Horizontal	31.47	54.00	-22.53	1.0	80				
17360.00 AV Horizontal 31.17 54.00 -22.83 1.4 120 19840.00 AV Horizontal 30.55 54.00 -23.45 1.5 100 22320.00 AV Horizontal 32.86 54.00 -21.14 1.3 100 24800.00 AV Horizontal 33.25 54.00 -20.75 1.6 60 2480.00 PK Vertical 107.66 (Fund.) 1.5 90 4960.00 PK Vertical 40.50 74.00 -33.5 1.5 100 7440.00 PK Vertical 35.80 74.00 -38.2 1.5 100 9920.00 PK Vertical 35.36 74.00 -38.63 1.8 90 12400.00 PK Vertical 34.19 74.00 -39.81 1.6 60 17360.00 PK Vertical 34.57 74.00 -39.43 1.5 70 19840.00	12400.00	AV	Horizontal	31.89	54.00	-22.11	1.6	90				
19840.00 AV Horizontal 30.55 54.00 -23.45 1.5 100 22320.00 AV Horizontal 32.86 54.00 -21.14 1.3 100 2480.00 AV Horizontal 33.25 54.00 -20.75 1.6 60 2480.00 PK Vertical 107.66 (Fund.) 1.5 90 4960.00 PK Vertical 40.50 74.00 -33.5 1.5 100 7440.00 PK Vertical 35.80 74.00 -38.2 1.5 100 9920.00 PK Vertical 35.37 74.00 -38.63 1.8 90 12400.00 PK Vertical 35.36 74.00 -38.64 1.0 90 14880.00 PK Vertical 34.57 74.00 -39.43 1.5 70 19840.00 PK Vertical 34.28 74.00 -39.72 1.5 100	14880.00	AV	Horizontal	32.42	54.00	-21.58	1.0	100				
22320.00 AV Horizontal 32.86 54.00 -21.14 1.3 100 24800.00 AV Horizontal 33.25 54.00 -20.75 1.6 60 2480.00 PK Vertical 107.66 (Fund.) 1.5 90 4960.00 PK Vertical 40.50 74.00 -33.5 1.5 100 7440.00 PK Vertical 35.80 74.00 -38.2 1.5 100 9920.00 PK Vertical 35.37 74.00 -38.63 1.8 90 12400.00 PK Vertical 35.36 74.00 -38.64 1.0 90 14880.00 PK Vertical 34.19 74.00 -39.81 1.6 60 17360.00 PK Vertical 34.28 74.00 -39.43 1.5 70 19840.00 PK Vertical 34.28 74.00 -39.72 1.5 100	17360.00	AV	Horizontal	31.17	54.00	-22.83	1.4	120				
24800.00 AV Horizontal 33.25 54.00 -20.75 1.6 60 2480.00 PK Vertical 107.66 (Fund.) 1.5 90 4960.00 PK Vertical 40.50 74.00 -33.5 1.5 100 7440.00 PK Vertical 35.80 74.00 -38.2 1.5 100 9920.00 PK Vertical 35.37 74.00 -38.63 1.8 90 12400.00 PK Vertical 35.36 74.00 -38.64 1.0 90 14880.00 PK Vertical 34.19 74.00 -39.81 1.6 60 17360.00 PK Vertical 34.57 74.00 -39.43 1.5 70 19840.00 PK Vertical 34.28 74.00 -39.72 1.5 100	19840.00	AV	Horizontal	30.55	54.00	-23.45	1.5	100				
2480.00 PK Vertical 107.66 (Fund.) 1.5 90 4960.00 PK Vertical 40.50 74.00 -33.5 1.5 100 7440.00 PK Vertical 35.80 74.00 -38.2 1.5 100 9920.00 PK Vertical 35.37 74.00 -38.63 1.8 90 12400.00 PK Vertical 35.36 74.00 -38.64 1.0 90 14880.00 PK Vertical 34.19 74.00 -39.81 1.6 60 17360.00 PK Vertical 34.57 74.00 -39.43 1.5 70 19840.00 PK Vertical 34.28 74.00 -39.72 1.5 100	22320.00	AV	Horizontal	32.86	54.00	-21.14	1.3	100				
4960.00 PK Vertical 40.50 74.00 -33.5 1.5 100 7440.00 PK Vertical 35.80 74.00 -38.2 1.5 100 9920.00 PK Vertical 35.37 74.00 -38.63 1.8 90 12400.00 PK Vertical 35.36 74.00 -38.64 1.0 90 14880.00 PK Vertical 34.19 74.00 -39.81 1.6 60 17360.00 PK Vertical 34.57 74.00 -39.43 1.5 70 19840.00 PK Vertical 34.28 74.00 -39.72 1.5 100	24800.00	AV	Horizontal	33.25	54.00	-20.75	1.6	60				
7440.00 PK Vertical 35.80 74.00 -38.2 1.5 100 9920.00 PK Vertical 35.37 74.00 -38.63 1.8 90 12400.00 PK Vertical 35.36 74.00 -38.64 1.0 90 14880.00 PK Vertical 34.19 74.00 -39.81 1.6 60 17360.00 PK Vertical 34.57 74.00 -39.43 1.5 70 19840.00 PK Vertical 34.28 74.00 -39.72 1.5 100	2480.00	PK	Vertical	107.66		(Fund.)	1.5	90				
9920.00 PK Vertical 35.37 74.00 -38.63 1.8 90 12400.00 PK Vertical 35.36 74.00 -38.64 1.0 90 14880.00 PK Vertical 34.19 74.00 -39.81 1.6 60 17360.00 PK Vertical 34.57 74.00 -39.43 1.5 70 19840.00 PK Vertical 34.28 74.00 -39.72 1.5 100	4960.00	PK	Vertical	40.50	74.00	-33.5	1.5	100				
12400.00 PK Vertical 35.36 74.00 -38.64 1.0 90 14880.00 PK Vertical 34.19 74.00 -39.81 1.6 60 17360.00 PK Vertical 34.57 74.00 -39.43 1.5 70 19840.00 PK Vertical 34.28 74.00 -39.72 1.5 100	7440.00	PK	Vertical	35.80	74.00	-38.2	1.5	100				
14880.00 PK Vertical 34.19 74.00 -39.81 1.6 60 17360.00 PK Vertical 34.57 74.00 -39.43 1.5 70 19840.00 PK Vertical 34.28 74.00 -39.72 1.5 100	9920.00	PK	Vertical	35.37	74.00	-38.63	1.8	90				
17360.00 PK Vertical 34.57 74.00 -39.43 1.5 70 19840.00 PK Vertical 34.28 74.00 -39.72 1.5 100	12400.00	PK	Vertical	35.36	74.00	-38.64	1.0	90				
19840.00 PK Vertical 34.28 74.00 -39.72 1.5 100	14880.00	PK	Vertical	34.19	74.00	-39.81	1.6	60				
	17360.00	PK	Vertical	34.57	74.00	-39.43	1.5	70				
22320.00 PK Vertical 33.79 74.00 -40.21 1.5 90	19840.00	PK	Vertical	34.28	74.00	-39.72	1.5	100				
	22320.00	PK	Vertical	33.79	74.00	-40.21	1.5	90				
24800.00 PK Vertical 33.37 74.00 -40.63 1.6 80	24800.00	PK	Vertical	33.37	74.00	-40.63	1.6	80				

2480.00	PK	Horizontal	106.78		(Fund.)	1.5	80
4960.00	PK	Horizontal	36.12	74.00	-37.88	1.5	90
7440.00	PK	Horizontal	33.64	74.00	-40.36	1.5	90
9920.00	PK	Horizontal	33.36	74.00	-40.64	1.6	90
12400.00	PK	Horizontal	33.55	74.00	-40.45	1.6	45
14880.00	PK	Horizontal	33.22	74.00	-40.78	1.5	60
17360.00	PK	Horizontal	33.48	74.00	-40.52	1.4	100
19840.00	PK	Horizontal	32.77	74.00	-41.23	1.5	120
22320.00	PK	Horizontal	32.16	74.00	-41.84	1.5	100
24800.00	PK	Horizontal	32.69	74.00	-41.31	1.6	80

8 Antenna Requirement.

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna to the intentional radiator shall be considered sufficient to comply with the provisions of this section. This product has a permanent antenna, fulfill the requirement of this section

9 Maximum Peak Output Power

Test Requirement: FCC Part15 Paragraph 15.247

Test Method: Based on ANSI 63.4:2003

Test Date: Sept. 1,2008

Test mode: Compliance test in the worse case: Tx Low/Tx Middle/Tx High

Requirements: Regulation 15.247(b) The limit of Maximum Peak Output

Power Measurement is 1W(30dBm)

Test procedure:

The following test procedure as below:

The transmitter output (antenna port) was connected to the spectrum analyzer.EUT and its simulators are placed on a table, let EUT working in test mode, then test it.

The bandwidth of the fundamental frequency was measured with the spectrum analyser using 100kHz RBW and 100kHz VBW.

Test Result: The unit does meet the FCC requirements.

Test Channel	Fundamental	Output Power	Limit	Power output
Test Chamier	Frequency(GHz)	(mW)	(W)	level
low	2.402	0.158	1	ERP
middle	2.441	0.207	1	ERP
high	2.480	0.168	1	ERP

10 Hopping Channel Number

Test Requirement: FCC Part15 C

Test Method: Based on FCC Part15 Paragraph 15.247

Test Date: Sept 1, 2008

Test mode: The EUT work in test mode(Tx) and test it

Requirements: Regulation 15.247(b) For frequency hopping systems operating

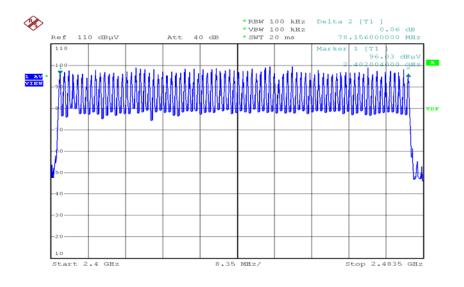
In the 2400-2483.5MHz band employing at least 75 hopping

channels.

Test result: The total number of channels would be 79 channels.

The unit does meet the FCC requirements.

Please refer the graph as below:



Date: 2.SEP.2008 10:22:02

11 Carrier Frequencies Separated

Test Requirement: FCC Part15 C

Test Method: Based on FCC Part15 Paragraph 15.247

Test Date: Sept.1, 2008

Test mode: The EUT work in test mode(Tx) and test it

Requirements: The bandwidth of the fundamental frequency was measur by

spectrum analyser with 30kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of

which is higher than peak power minus 20dB.

Test result: PASS

Channel Carrier Frequency Separated

Test Channel	Carrier Frequencies Separated	PASS/FAIL	
Lower Channels (channel 2402MHZ and channel 2403MHZ)	1MHz	Pass	
Lower Channels (channel 2441MHZ and channel 2442MHZ)	1MHz	Pass	
Lower Channels (channel 2479MHZ and channel 2480MHZ)	1MHz	Pass	

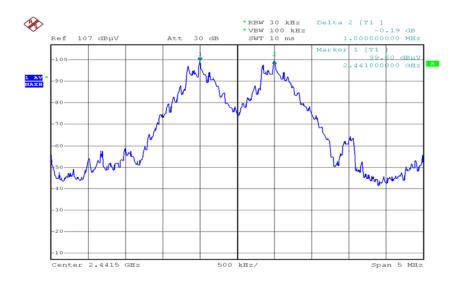
The unit does meet the FCC requirements.

11.1 Lower Channel: Carrier Frequencies Separated



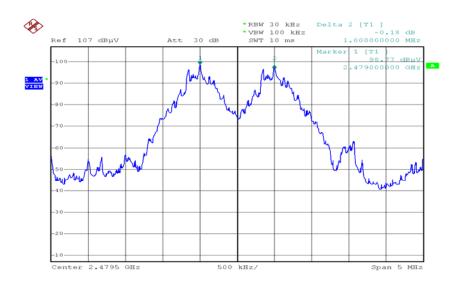
Date: 4.SEP.2008 09:20:11

11.2 Middle Channel: Carrier Frequencies Separated



1 Date: 4.SEP.2008 09:18:49

11.3 Upper Channel: Carrier Frequencies Separated



Date: 4.SEP.2008 09:17:13

12 Dwell Time

Test Requirement: FCC Part15 C

Test Method: Based on FCC Part15 Paragraph 15.247

Test Date: Sept. 1, 2008

Test mode: The EUT work in test mode(Tx) and test it

Requirements: 15.247 a(1)(iii)Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 non-overlapping channels. The average time of occupancy on any channel shall not greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

12.1 Test procedure

The EUT output antenna port was connected to the spectrum analyzer. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz, and the frequency span to zero span, measure the maximum time duration of one single pulse. Set the EUT for DH5, DH3 and DH1 packet transmitting.

DH5 Packet permit maximum 1600/79/6 hops per second in each channel (5 time slots RX, 1 time slot TX).

DH3 Packet permit maximum 1600 / 79 / 4 hops per second in each channel (3 time slots RX, 1 time slot TX).

DH1 Packet permit maximum 1600 / 79 / 2 hops per second in each channel (1 time slot RX, 1 time slot TX). So,the Dwell Time can be calculated as follows:

Data Packet	Dwell Time(s)		
	1600/79/6*31.6*(MkrDelta)/100		
DH5	0		
	1600/79/4*31.6*(MkrDelta)/100		
DH3	0		
	1600/79/2*31.6*(MkrDelta)/100		
DH1	0		

Delta is once pulse time.

Note: Mkr

12.2 Test Results: PASS

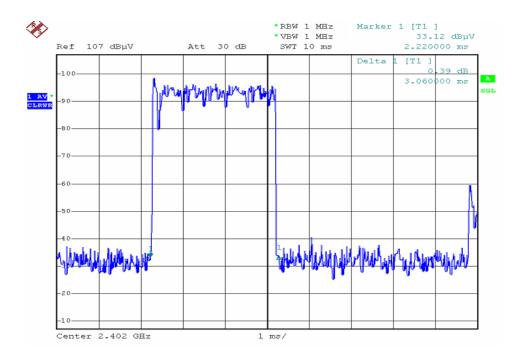
Please refer to the below photos for more details.

12.3 Test Channel and Result

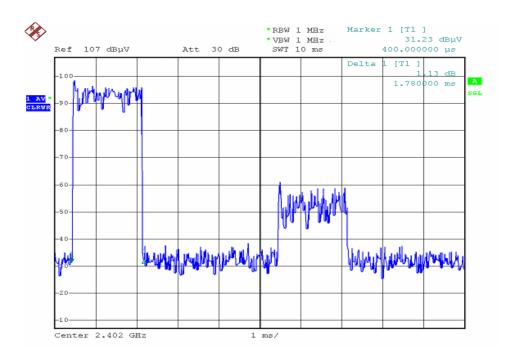
Channel 0: 2. 402GHz

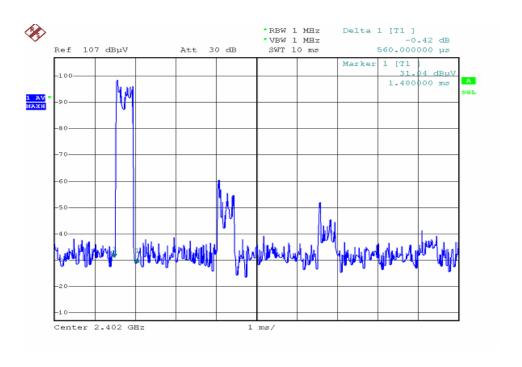
Dwell time of each occupation in this channel as follows:

Data	Frequency	Mkr	Dwell	Limits(s
Packet	Frequency	Delta(ms)	Time(s))
DH5	2402 MHz	3.060	0.326	0.4000
DH3	2402 MHz	1.780	0.189	0.4000
DH1	2402 MHz	0.560	0.0597	0.4000



DH3

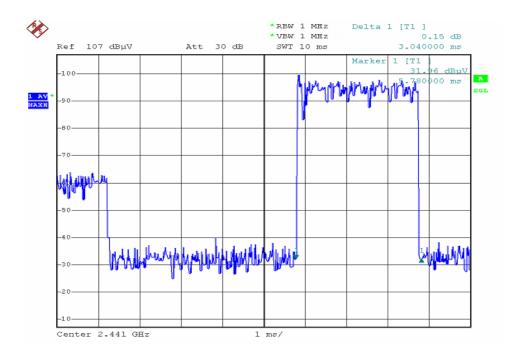




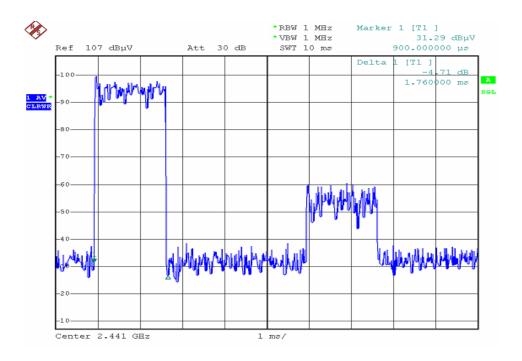
Channel 39: 2. 441GHz

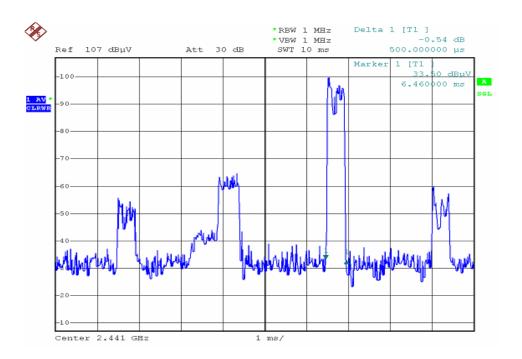
Dwell time of each occupation in this channel as follows:

Data Packet	Frequency Mkr Delta(ms)		Dwell Time(s)	Limits(s
DH5	2402 MHz	3.040	0.324	0.4000
DH3	2402 MHz	1.760	0.188	0.4000
DH1	2402 MHz	0.500	0.053	0.4000



DH3

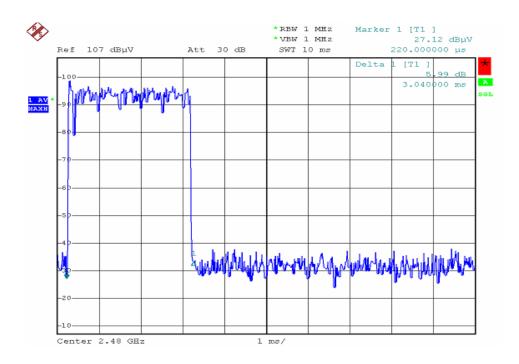




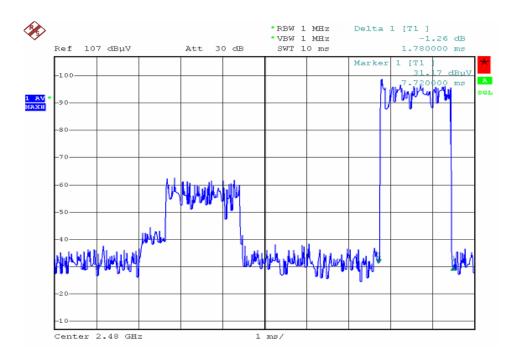
Channel 78: 2. 480GHz

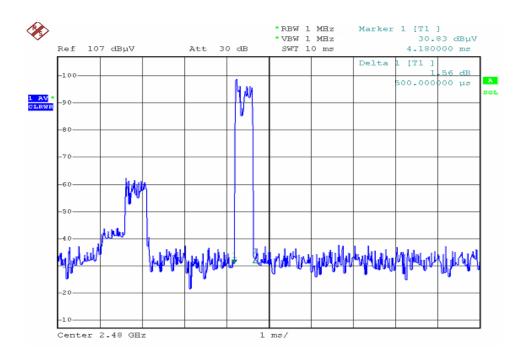
Dwell time of each occupation in this channel as follows:

Data	Frequency	Frequency Mkr		Limits(s
Packet	_ · ·	Delta(ms)	Time(s))
DH5	2402 MHz	3.040	0.324	0.4000
DH3	2402 MHz	1.780	0.189	0.4000
DH1	2402 MHz	0.500	0.053	0.4000



DH3





13 20-dB Bandwith

Test Requirement: FCC Part15 C

Test Method: Based on FCC Part15 Paragraph 15.247

Test Date: September 1, 2008

Test mode: The EUT work in test mode(Tx) and test it

13.1 Test Procedure

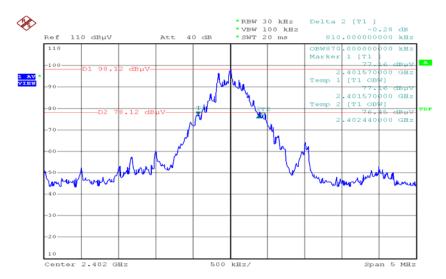
1. The transmitter output (antenna port) was connected to the spectrum analyzer.

2. The bandwidth of the fundamental frequency was measure by spectrum analyser with 30KHz RBW and 100KHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power 20dB.

13.2 Test Result

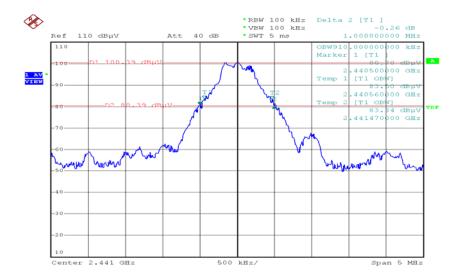
Please refer the graph as below:





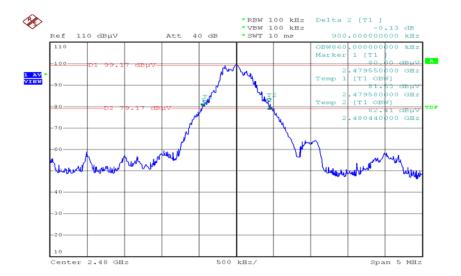
1

Middle



1

High



14 Radiated spurious emissions into adjacent restricted band

Test Requirement: FCC Part15 Paragraph 15.205

Test Method: Based on FCC Part 15 Paragraph 15.247

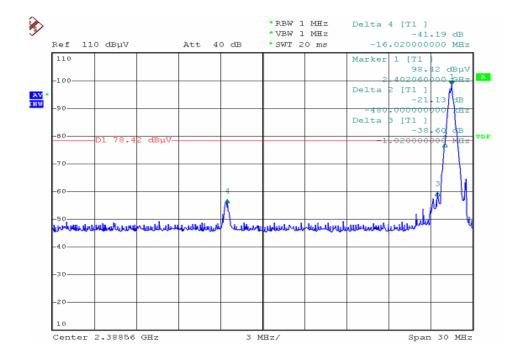
Test Date: Sept.1, 2008

Requirements: The EUT work in test mode(Tx) and test it

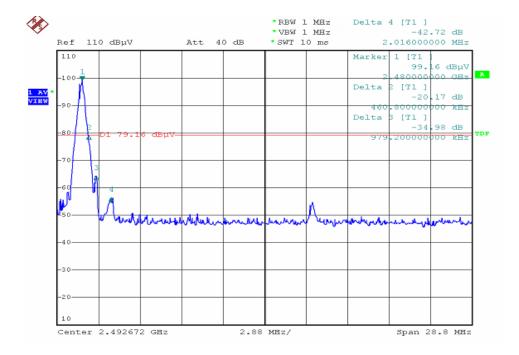
Requiments: emissions that fall in the restricted bands(15.205). Above 1000MHz, compliance with the emissions limits in section 15.209 shall be demonstrated based on the average value of the measured emissions, The provisions in section 15.35 apply to these measurements.

Test procedure:An in band field strength measurement of the fundamental emission using the RBW and detector function required by C63.4-2003 and FCC Rules. The procedure was repeated with an average detector and a plot made. The calculated field strength in the adjacent restricted band is presented below.

lower bandedge/ restricted band (peak value)



upper bandedge/ restricted band (peak value)



15 RF Exposure Test

Test Requirement: FCC Part 2 Subpart J

Test Method: Based on FCC Part 15 Paragraph 15.247

Test Date: Sept.1, 2008

Requirements: The EUT work in test mode(Tx) and test it

Requiments:Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time $ E ^2$, $ H ^2$ or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz; *Plane-wave equivalent power density

MPE Calculation Method

E (V/m) =
$$\frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: Pd (W/m²) = $\frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

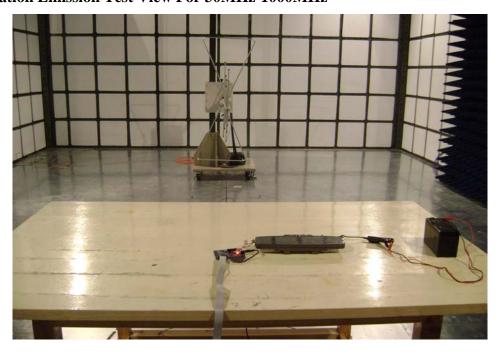
$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

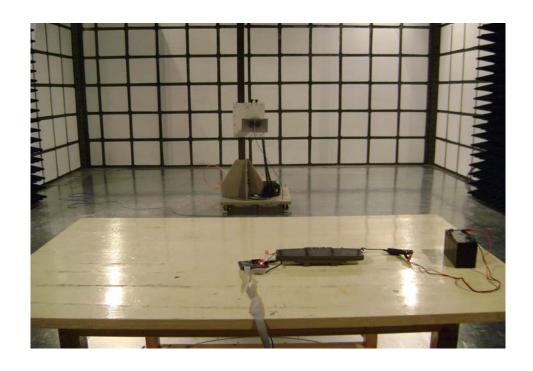
Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm2)	Limit of Power Density (S) (mW/cm2)	Test Result
1	1.259	-8.01	0.158	0.3957	1	Complies
1	1.259	-6.83	0.207	0.5184	1	Complies
1	1.259	-7.75	0.168	0.4208	1	Complies

16 Photographs of Testing

16.1 Radiation Emission Test View For 30MHz-1000MHz



16.2 Radiation Emission Test View For 1GHz-25GHz



17 Photographs - Constructional Details

17.1 EUT - Front View



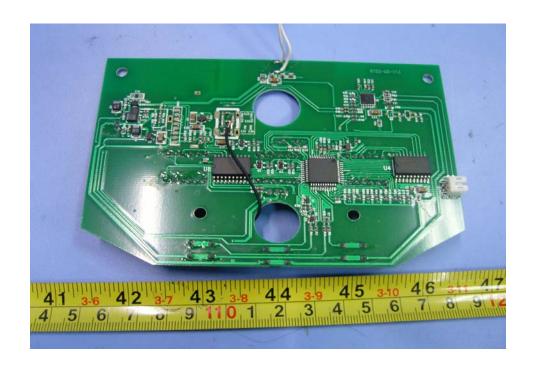
17.2 EUT - Back View



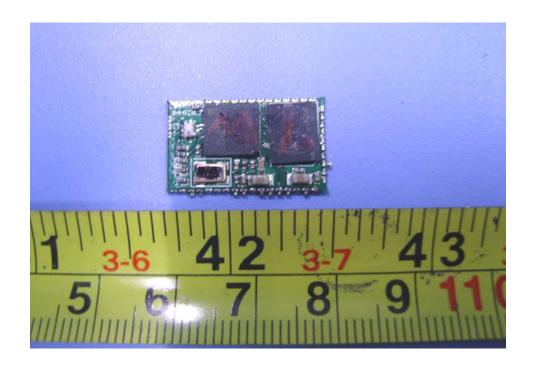
17.3 PCB1 – Front View



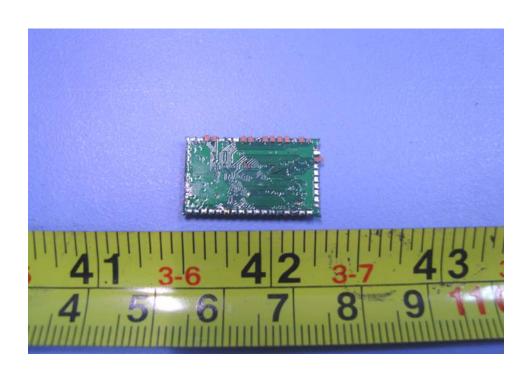
17.4 PCB 1- Back View



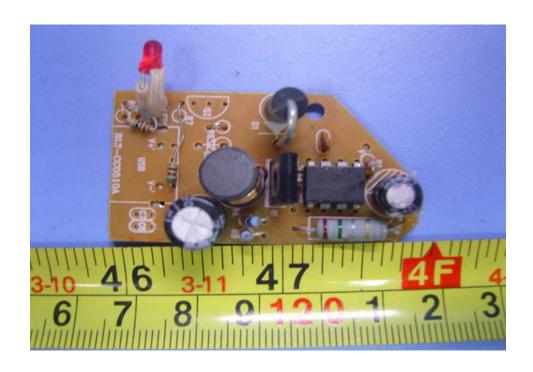
17.5 PCB 2- Front View



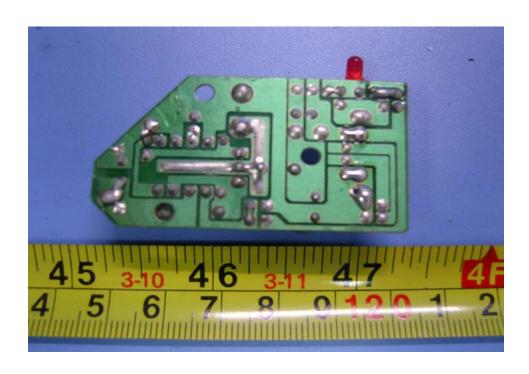
17.6 PCB 2- Back View



17.7 PCB 3- Front View



17.8 PCB 3- Back View



18 FCC ID Label

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)this device may not cause harmful interference,and (2) this device must accept any interference received, including interference that may cause undesired operation.

The Label must not be a stick-on paper. The Label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Proposed Label Location on EUT
EUT Bottom View/proposed FCC Label Location

