

FCC TEST REPORT for Veho Global Group

Waterproof Bluetooth Speaker Model No.: VXS-003-VM

Prepared for : Veho Global Group

Address : Building 3, Flanders Business Park, Flanders Road, Hedge End,

Southampton SO30 2FZ UK

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

Address : 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road,

Nanshan District, Shenzhen, Guangdong, China

Tel: (86) 755-26066544 Fax: (86) 755-26014772

Report Number : R011410347E

Date of Test : Oct. 24~ Nov. 14, 2014

Date of Report : Dec. 18, 2014



TABLE OF CONTENT

Description

Page Test Report 1. GENERAL INFORMATION......4 1.1. Description of Device (EUT)......4 3. CONDUCTED EMISSION TEST......7 4. FCC PART 15.247 REQUIREMENTS FOR DSSS & OFDM MODULATION...... 11 4 2 6dB Bandwidth 4.6. Radiated Emissions 31 APPENDIX I (EXTERNAL PHOTOS)......44 APPENDIX II (INTERNAL PHOTOS).......47



TEST REPORT

Applicant : Veho Global Group

Manufacturer : YUPENG TECHNOLOGY (HK) CO., LTD.

EUT : Waterproof Bluetooth Speaker

Model No. : VXS-003-VM

Serial No. : N.A.
Trade Mark : veho

Rating : DC 5V, 1A

Measurement Procedure Used:

FCC Part15 Subpart C, Paragraph 15.247

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Test:	Oct. 24~ Nov. 14, 2014
Prepared by:	kelos zhang
_	(Tested Engineer / Kebo Zhang)
Reviewer:	Amy Ding
_	(Project Manager / Amy Ding)
Approved & Authorized Signer:	Ton Chen
	(Manager / Tom Chen)



1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Waterproof Bluetooth Speaker

Model Number : VXS-003-VM

Test Power Supply : AC 120V, 60Hz for adapter/

DC 5V(With DC 3.7V Battery inside)

Frequency : 2402~2480MHz

Modulation : GFSK

Channel Spacing : 2MHz

Number of

: 40

Channels

Antenna Type : PCB Trace Antenna

Antenna : PCB Antenna:0 dBi

Specification

Applicant : Veho Global Group

Address : Building 3, Flanders Business Park, Flanders Road, Hedge End,

Southampton SO30 2FZ UK

Manufacturer : YUPENG TECHNOLOGY (HK) CO., LTD.

Address : #708, Jialingyu Gongmao Building, Dapu North Road, Houting

Community, Shajing Town, Baoan District, Shenzhen, China

Factory : YUPENG TECHNOLOGY (HK) CO., LTD.

Address : #708, Jialingyu Gongmao Building, Dapu North Road, Houting

Community, Shajing Town, Baoan District, Shenzhen, China

Date of receipt : Oct. 24, 2014

Date of Test : Oct. 24~ Nov. 14, 2014



1.2. Auxiliary Equipment Used during Test

Adapter : Power Supply

Model:MX12L3-0502000V

Input: AC 100-240V, 50-60Hz, 0.35A

Output: DC 5V, 2A

CE, FCC

iPod : M/N: A1199

S/N: 7J712G0CVQ5 CE, FCC: DOC

1.3. Description of Test Facility

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

CNAS - LAB Code: L3503

Shenzhen Anbotek Compliance Laboratory Limited., Laboratory has been assessed and in compliance with CNAS/CL01: 2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

FCC-Registration No.: 752021

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed 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 752021, July 10, 2013.

IC-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A, February 22, 2013.

Test Location

All Emissions tests were performed at

Shenzhen Anbotek Compliance Laboratory Limited. at 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China

1.4. Measurement Uncertainty

Radiation Uncertainty : Ur = 4.3dB

Conduction Uncertainty : Uc = 3.4dB



2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4: 2009 and FCC Part 15, Paragraph 15.247.

2.1. Summary of Test Results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107, 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15, Paragraph 15.247(b)(1)	Peak Output Power	PASS	Complies
FCC Part 15, Paragraph 15.247(a)(2)	6dB Bandwidth	PASS	Complies
FCC Part 15, Paragraph 15.247(c)	100kHz Bandwidth of Frequency Band Edges	PASS	Complies
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS	Complies
FCC Part 15, Paragraph 15.247(a)(1)	Frequency Separation	7-	N/A
FCC Part 15, Paragraph 15.247(a)(1)(iii)	Number of Hopping Frequency	/ -	N/A
FCC Part 15, Paragraph 15.247(a)(1)(iii)	Time of Occupancy	-	N/A
FCC Part 15, Paragraph 15.247(c)	Peak Power Density	PASS	Complies

2.2. Description of Test Modes

The EUT has been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

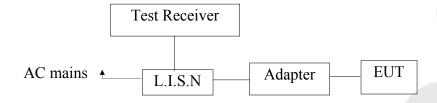
Channel Low(2402MHz), Channel Middle(2440MHz) and Channel High(2480MHz) are chosen for the final testing.



3. Conducted Emission Test

3.1. Block Diagram of Test Setup

3.1.1. Block diagram of connection between the EUT and simulators



3.2. Power Line Conducted Emission Measurement Limits (15.207)

Frequency	Limits $dB(\mu V)$			
MHz	Quasi-peak Level	Average Level		
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*		
0.50 ~ 5.00	56	46		
5.00 ~ 30.00	60	50		

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT and simulator as shown as Section 3.1.
- 3.4.2. Turn on the power of all equipment.
- 3.4.3. Let the EUT work in test mode (Charging to adapter) and measure it.



3.5. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-2003 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

The test results are reported on Section 3.6.

3.6. Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Two-Line V-network	Rohde & Schwarz	ENV216	100055	Apr. 22, 2014	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Apr. 22, 2014	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Apr. 22, 2014	1 Year

3.7. Power Line Conducted Emission Measurement Results **PASS.**

The frequency range from 150KHz to 30 MHz is investigated.

Please refer the following pages.



CONDUCTED EMISSION TEST DATA

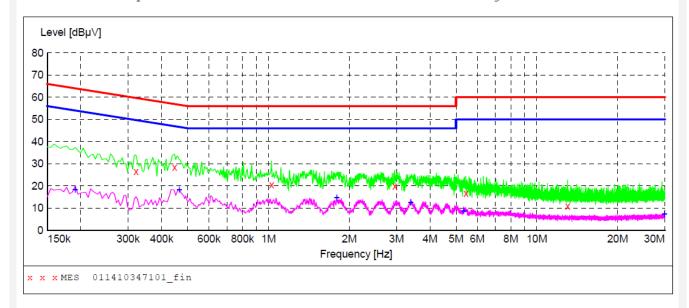
Test Site: 1# Shielded Room Operating Condition: Charging to adapter

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.:25°C Hum.:50%

SCAN TABLE: "Voltage (150K~30M) FIN"
Short Description: 150K-30M Disturbance Voltages



MEASUREMENT RESULT: "011410347101_fin"

10/25/2014	10:27AM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBµV	dB	dBµV	dB			
0.321000	26.50	20.1	60	33.2	QP	L1	GND
0.447000	28.40	20.1	57	28.5	QP	L1	GND
1.027000	20.60	20.2	56	35.4	QP	L1	GND
2.953000	20.00	20.4	56	36.0	QP	L1	GND
5.437000	16.50	20.5	60	43.5	QP	L1	GND
13.033000	10.90	20.7	60	49.1	QP	L1	GND

MEASUREMENT RESULT: "011410347101_fin2"

10/25/2014 10	:27AM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dΒμV	dB	dΒμV	dB			
0.190500	18.30	20.1	54	35.7	AV	L1	GND
0.465000	18.30	20.1	47	28.3	AV	L1	GND
1.796500	14.70	20.3	46	31.3	AV	L1	GND
3.389500	12.40	20.4	46	33.6	AV	L1	GND
5.338000	8.80	20.5	50	41.2	AV	L1	GND
29.899000	7.30	20.9	50	42.7	AV	L1	GND



CONDUCTED EMISSION TEST DATA

Test Site: 1# Shielded Room Operating Condition: Charging to adapter

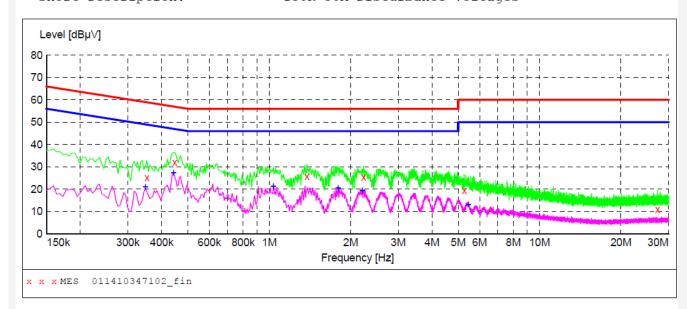
Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.:25°C Hum.:50%

SCAN TABLE: "Voltage (150K~30M) FIN"

Short Description: 150K-30M Disturbance Voltages



MEASUREMENT RESULT: "011410347102_fin"

10/25/2014 10	:32AM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dΒμV	dB	dΒμV	dB			
0.352500	25.20	20.1	59	33.7	QP	N	GND
0.447000	32.00	20.1	57	24.9	QP	N	GND
1.378000	25.70	20.2	56	30.3	QP	N	GND
2.228500	25.50	20.3	56	30.5	QP	N	GND
5.266000	19.30	20.5	60	40.7	QP	N	GND
27.325000	10.90	20.9	60	49.1	QP	N	GND

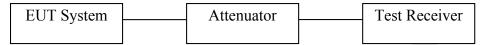
MEASUREMENT RESULT: "011410347102 fin2"

10/25/2014 10 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.348000	20.90	20.1	49	28.1	AV	N	GND
0.442500	27.40	20.1	47	19.6	AV	N	GND
1.036000	21.20	20.2	46	24.8	AV	N	GND
1.796500	20.40	20.3	46	25.6	AV	N	GND
2.206000	19.50	20.3	46	26.5	AV	N	GND
5.450500	13.10	20.5	50	36.9	AV	N	GND



4. FCC Part 15.247 Requirements for DSSS & OFDM Modulation

4.1 Test Setup



4.2 6dB Bandwidth

a. Limit

For the direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

b. Test Procedure

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as:

RBW = 100kHz, $VBW \ge 3*RBW = 300kHz$,

Detector= Peak

Trace mode= Max hold.

Sweep- auto couple.

- 4. Mark the peak frequency and –6dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

c. Test Setup See 4.1

d. Test Equipment

	u. Test Equipment						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Aug. 08, 2014	1 Year	
2.	Preamplifier	Instruments corporation	EMC01183 0	980100	Aug. 08, 2014	1 Year	
3.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Apr. 22, 2014	1 Year	
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Apr. 04, 2014	1 Year	
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Apr. 24, 2014	1 Year	
6.	Pre-amplifier	SONOMA	310N	186860	Aug. 08, 2014	1 Year	
7.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A	

e. Test Results

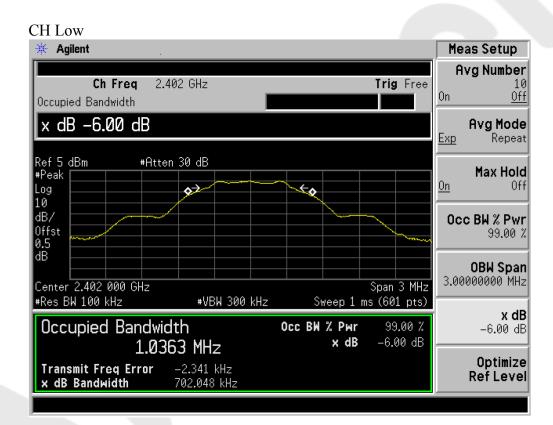
Pass.



f. Test Data

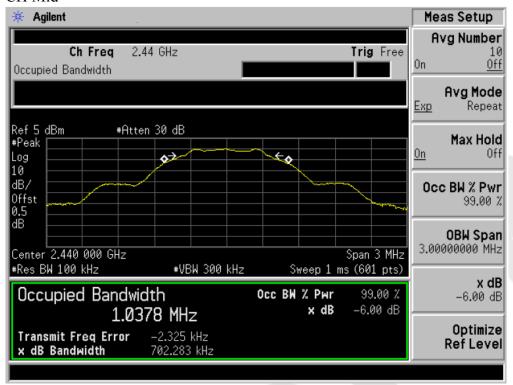
Channel	Frequency	Bandwidth	Limit	Results
Chamici	(MHz)	(kHz)	(kHz)	Results
Low	2402	702.048		Pass
Mid	2440	702.283	>500	Pass
High	2480	699.876		Pass

Test Plots See the following page.

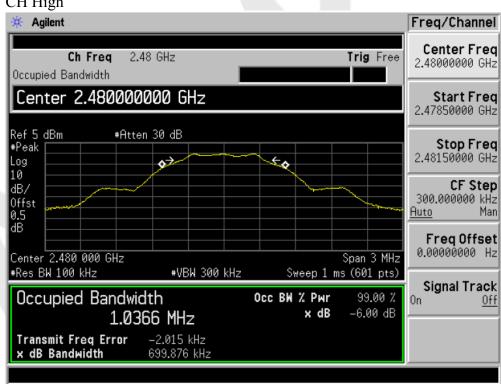




CH Mid



CH High





4.3. Maximum Peak output power test

a. Limit

The maximum peak output power of the intentional radiator shall not exceed the following:

- 1. For systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 watt (30dBm).
- 2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antenna of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

b. Configuration of Measurement

EUT	DC block	ATT.		Test receiver
-----	----------	------	--	---------------

c. Test Procedure

This test was according the kDB 558074 9.1.2:

- 1. This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.
- 2. Set the RBW ≥DTS bandwidth.
- 3. Set the VBW≥3*RBW.
- 4. Set the span $\geq 3*RBW$.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use peak marker function to determine the peak amplitude level.

d. Test Equipment

Same as the equipment listed in 4.2.

e. Test Results

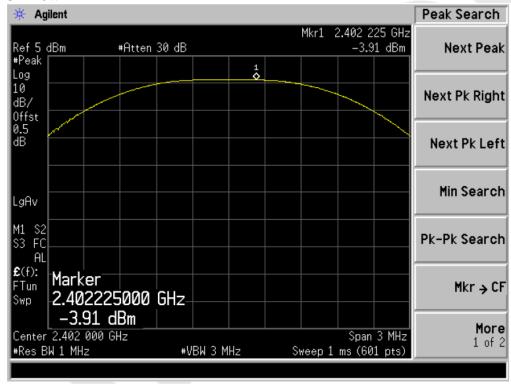
Pass.



g. Test Data

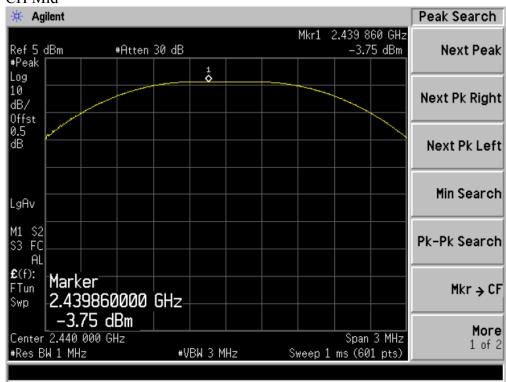
Channel		Frequency	Maximum transmit power	Li	mit	Result
		(MHz)	(dBm)	(dBm)	(watts)	Result
	Low	2402	-3.91			Pass
	Mid	2440	-3.75	30	1	Pass
	High	2480	-3.93			Pass

CH Low

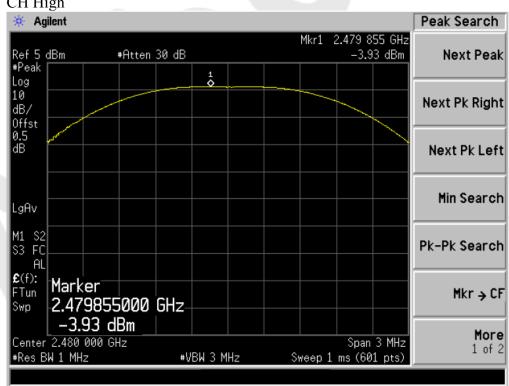








CH High





4.4. Band Edges Measurement

a. Limit

According to §15.247(c), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in15.209(a).

b. Test Procedure

- 1. Conducted Method:
- 1) Set RBW=100KHz, VBW=300KHz
- 2) Detector=peak
- 3) Sweep time= auto
- 4) Trace mode=max hold.
- 2. Radiated Method:
- 1) The EUT is placed on a turntable, which is 0.8m above the ground plane. The EUT is tested in 9*6*6 Chamber.
- 2) The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4) Set both RBW and VBW of spectrum analyzer to 100kHz with a convenient frequency span including 100kHz bandwidth from band edge, check the emission of EUT. If pass then set Spectrum Analyzer as below:

For below 1GHz:

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

Detector: Quasi-Peak

For above 1GHz Peak measurement:

The resolution bandwidth of test receiver/ spectrum analyzer is 1MHz and video bandwidth is 3MHz.

Detector: Peak

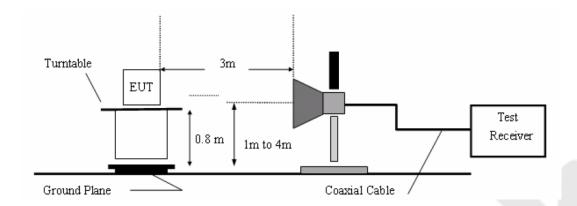
For above 1GHz average measurement:

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

Detector: Peak

5) Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.





c. Test Equipment

Same as the equipment listed in 4.2.

d. Test Results

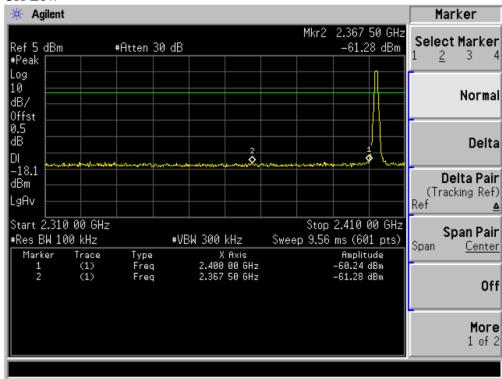
Pass.

e. Test Plots

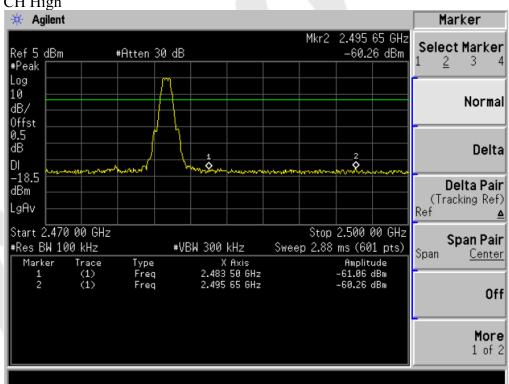
See the following page.







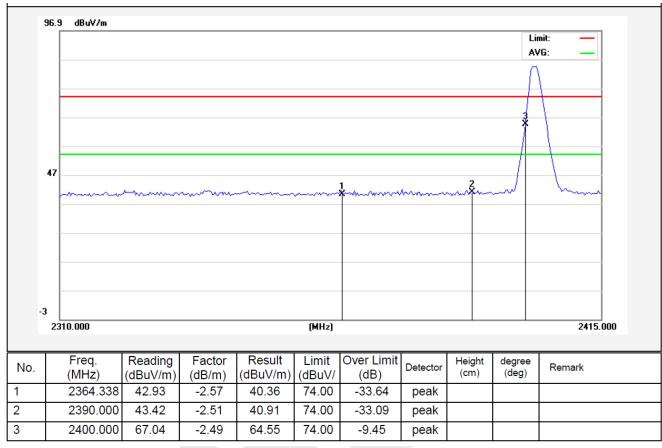
CH High





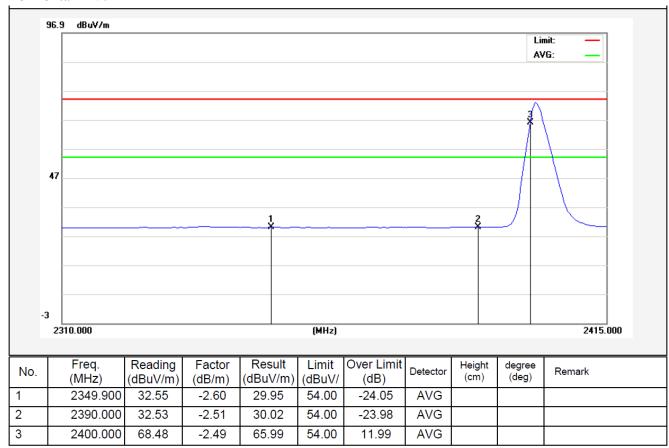
2402MHz

Horizontal-PEAK:



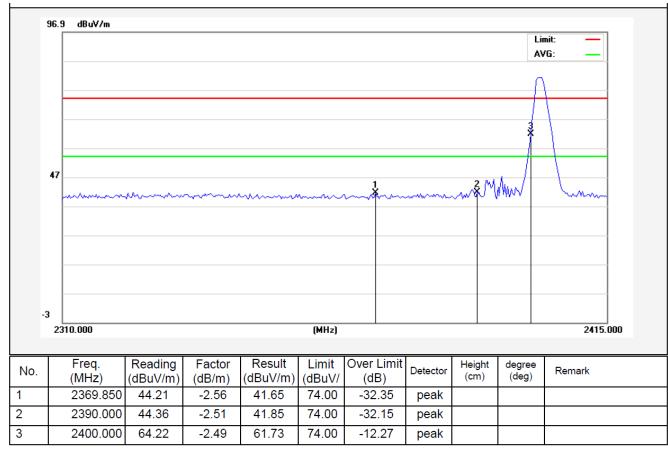


Horizontal-AV:



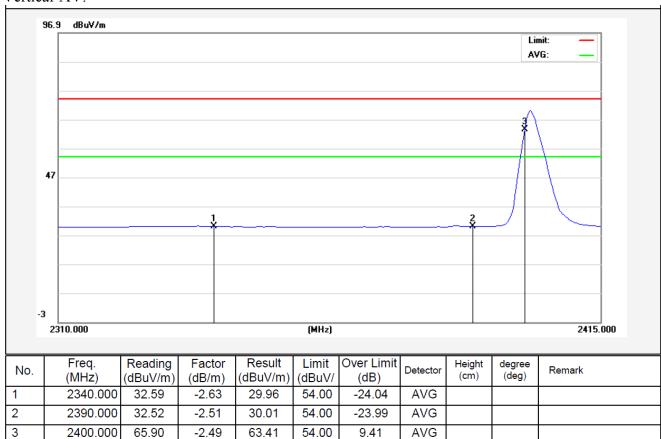


2402MHz Vertical-PEAK:



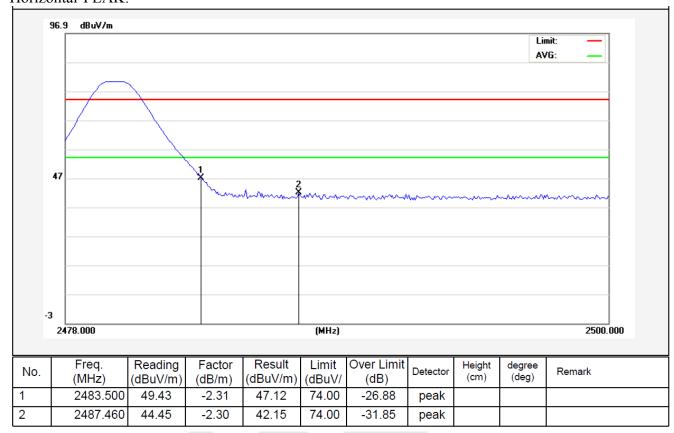


Vertical-AV:



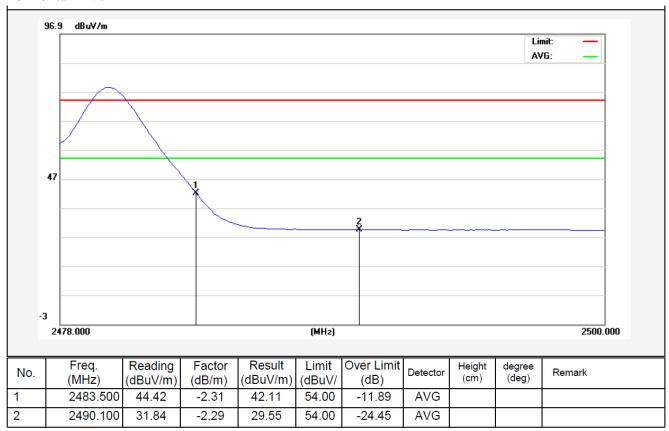


2480MHz Horizontal-PEAK:



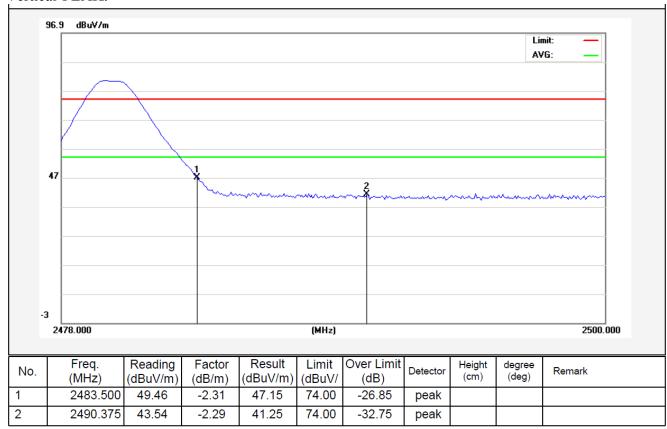


Horizontal-AV:



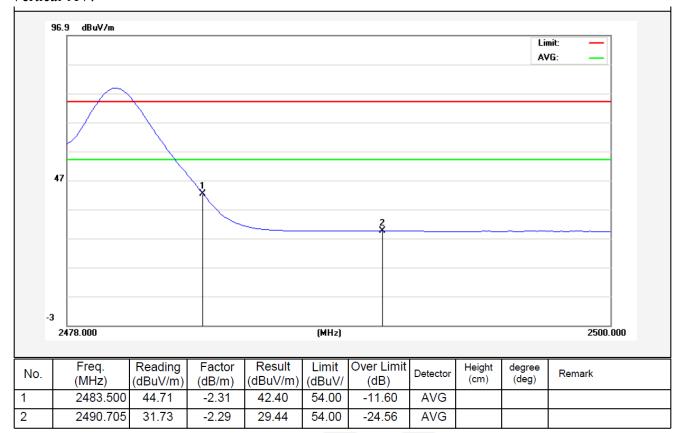


2480MHz Vertical-PEAK:





Vertical-AV:





4.5. Peak Power Spectral Density

a. Limit

- 1. For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
- 2. The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

b. Test Procedure

- 1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 1.5xOBW, Sweep=500s
- 3. Record the max. reading.
- 4. Repeat the above procedure until the measurements for all frequencies are completed.

c. Test Equipment

Same as the equipment listed in 4.2.

d. Test Setup

See 3.1

e. Test Results

Pass

f. Test Data

Please refer to the following data.

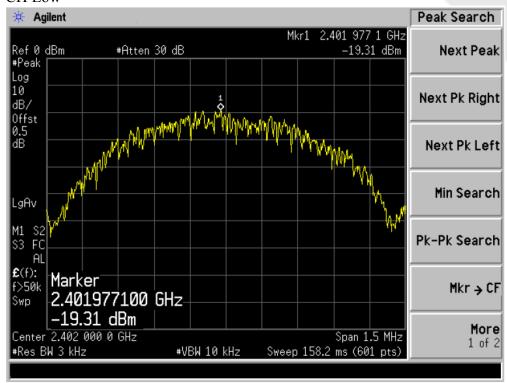
g. Test Plot See the following pages



Test mode: IEEE 802.11b

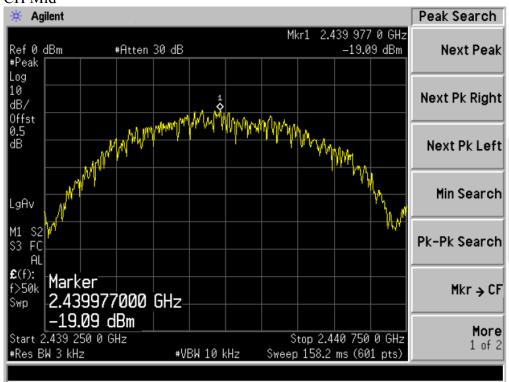
Channel	Frequency PPSD (MHz) (dBm/3KHz)		Σ PPSD (dBm/3KHz)	Limit (dBm)	Result
Low	2402	-19.31	-	8.00	Pass
Mid	2440	-19.09	-	8.00	Pass
High	2480	-19.03	-	8.00	Pass

CH Low

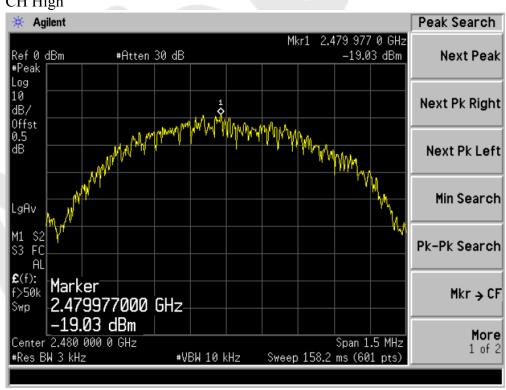








CH High





4.6. Radiated Emissions

4.6.1.1. Test Limits (< 30 MHZ)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

4.6.1.2. Test Limits (≥ 30 MHZ)

FIELD STRENGTH	FIELD STRENGTH	S15.209	
of Fundamental:	of Harmonics	30 - 88 MHz	40 dBuV/m
@3M			
902-928 MHZ		88 - 216 MHz	43.5
2.4-2.4835 GHz		216 - 960 MHz	46
94 dBμV/m @3m	54 dBμV/m @3m	ABOVE 960 MHz	54dBuV/m

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

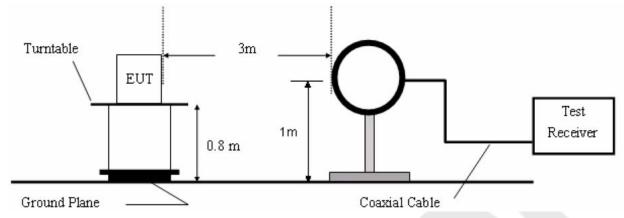
Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Aug. 08, 2014	1 Year
2.	Preamplifier	Instruments corporation	EMC01183 0	980100	Aug. 08, 2014	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Apr. 22, 2014	1 Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Apr. 04, 2014	1 Year
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Apr. 24, 2014	1 Year
6.	Pre-amplifier	SONOMA	310N	186860	Aug. 08, 2014	1 Year
7.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A

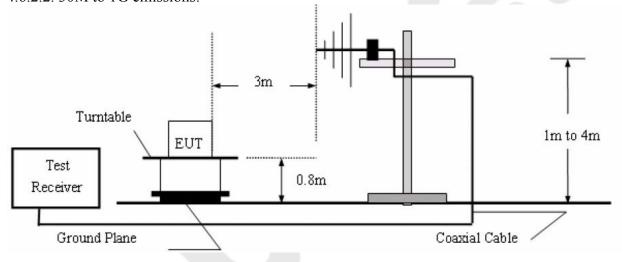


4.6.2. Test Configuration:

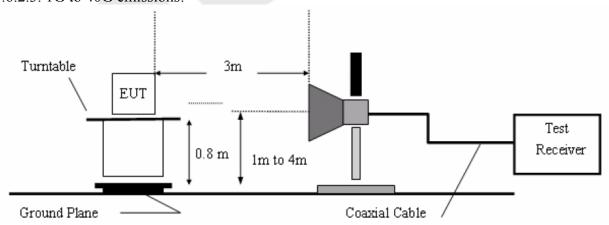
4.6.2.1. 9k to 30MHz emissions:



4.6.2.2. 30M to 1G emissions:



4.6.2.3. 1G to 40G emissions:





4.6.3. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

Measurements are made on 9KHz to 30MHz and 30MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

All readings from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. All reading are above 1GHz, peak & average values with a resolution bandwidth of 1MHz.

The EUT is tested in 9*6*6 Chamber.

The test results are listed in Section 4.6.4.

4.6.4. Test Results

PASS.

The EUT was tested on (Charging to adapter, AUX Mode, BT Mode) modes, only the worst data of (BT Mode) are attached in the following pages.

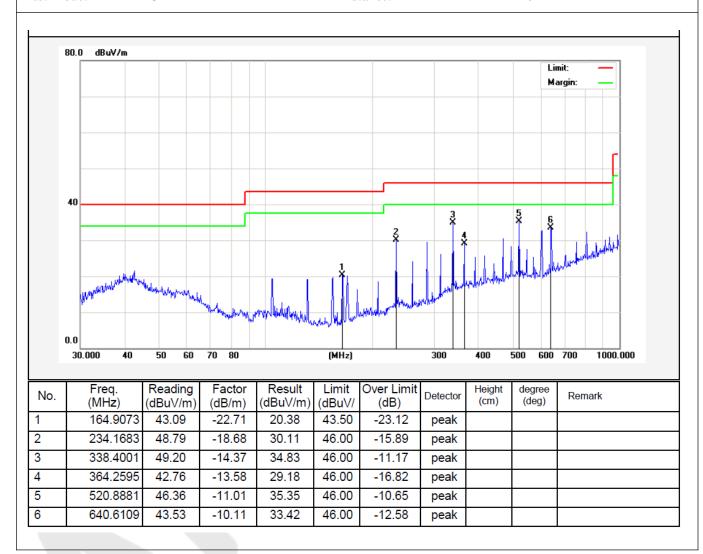


Job No.: 011410347E Polarization: Horizontal

Standard: (RE)FCC PART15 C _3m Power Source: DC 3.7V

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Test Mode: On Distance: 3m



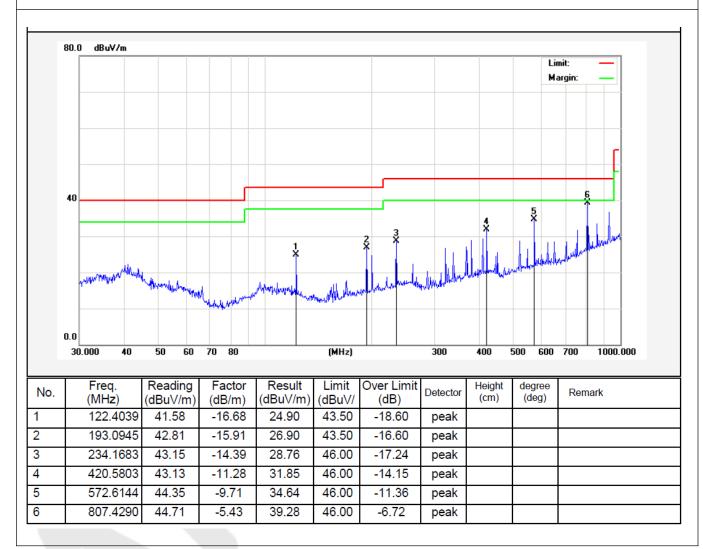


Job No.: 011410347E Polarization: Vertical

Standard: (RE)FCC PART15 C _3m Power Source: DC 3.7V

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Test Mode: On Distance: 3m



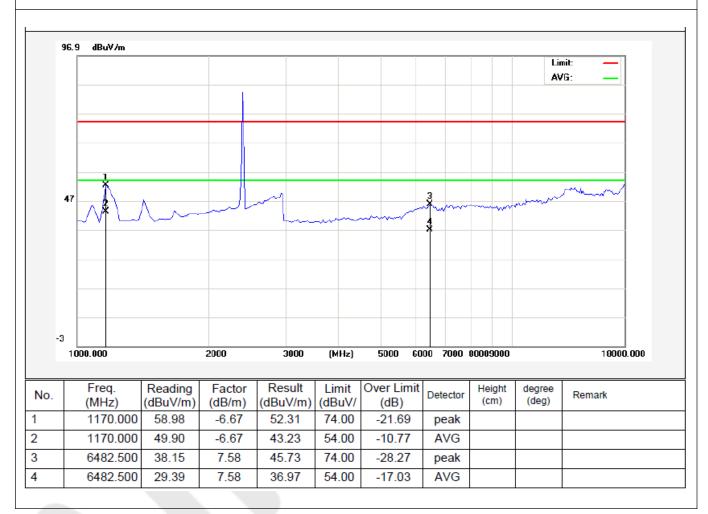


Job No.: 011410347E Polarization: Horizontal

Standard: (RE)FCC PART15 C _3m Power Source: DC 3.7V

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Note: 2402MHz Distance: 3m



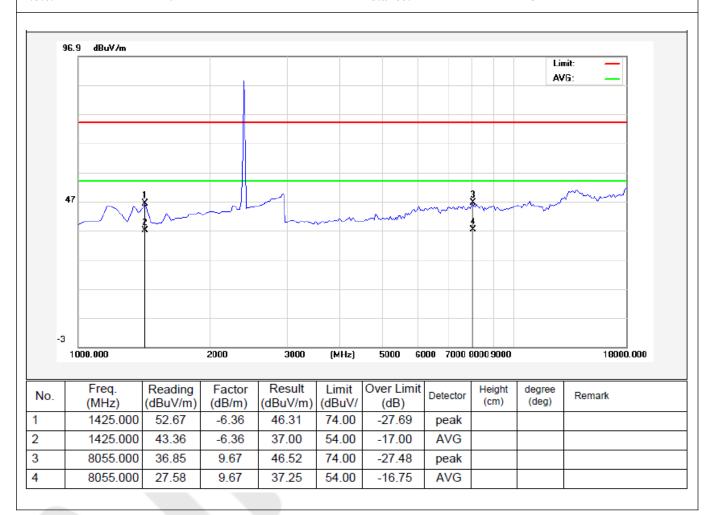


Job No.: 011410347E Polarization: Vertical

Standard: (RE)FCC PART15 C _3m Power Source: DC 3.7V

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Note: 2402MHz Distance: 3m



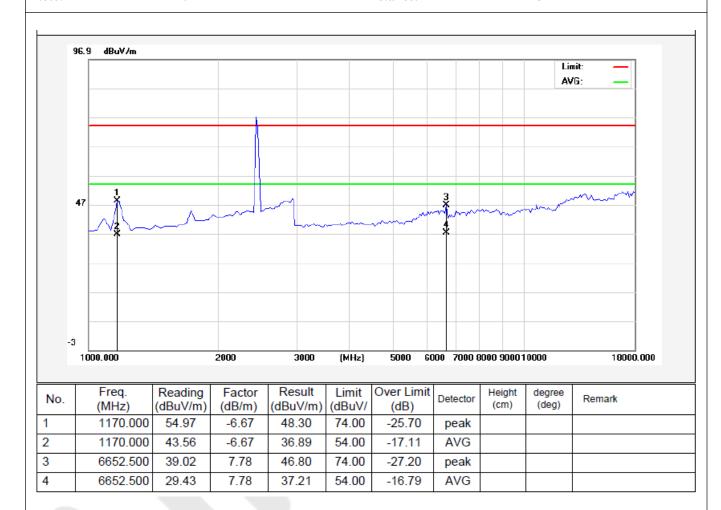


Job No.: 011410347E Polarization: Horizontal

Standard: (RE)FCC PART15 C _3m Power Source: DC 3.7V

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Note: 2440MHz Distance: 3m



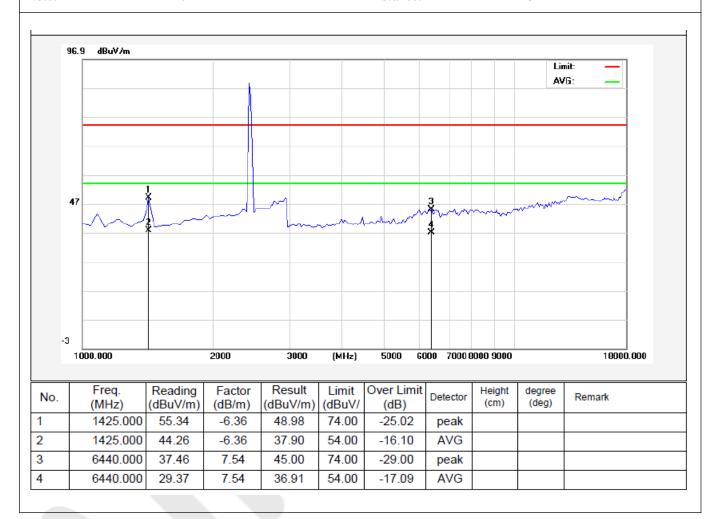


Job No.: 011410347E Polarization: Vertical

Standard: (RE)FCC PART15 C _3m Power Source: DC 3.7V

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Note: 2440MHz Distance: 3m



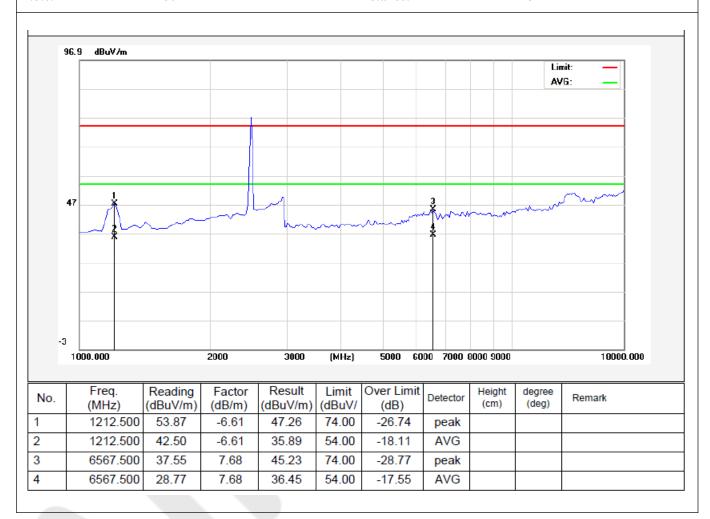


Job No.: 011410347E Polarization: Horizontal

Standard: (RE)FCC PART15 C _3m Power Source: DC 3.7V

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Note: 2480MHz Distance: 3m



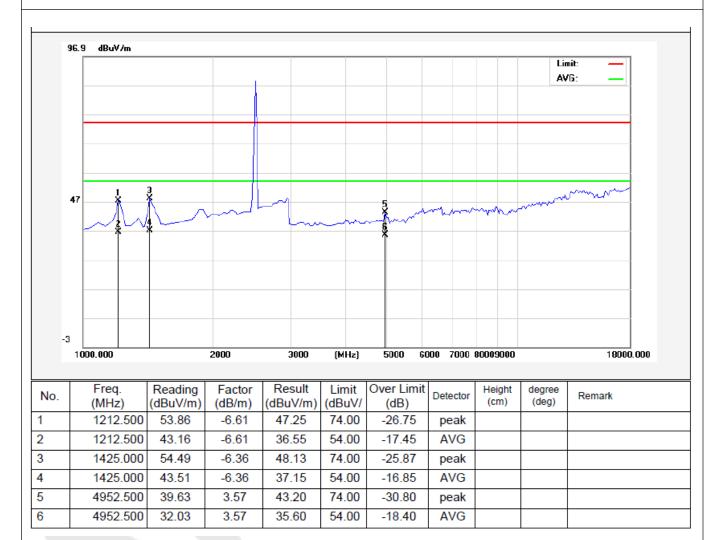


Job No.: 011410347E Polarization: Vertical

Standard: (RE)FCC PART15 C _3m Power Source: DC 3.7V

Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Note: 2480MHz Distance: 3m



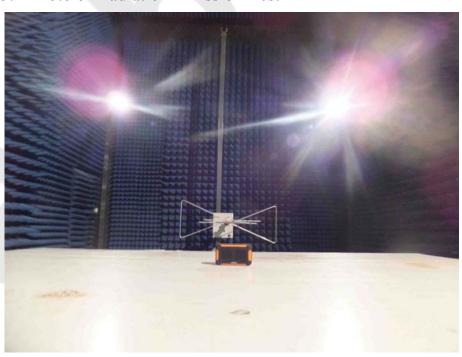


5. PHOTOGRAPH

5.1 Photo of Conducted Emission Test



5.2 Photo of Radiation Emission Test









APPENDIX I (EXTERNAL PHOTOS)

Figure 1
The EUT-Top View



Figure 2
The EUT-Bottom View





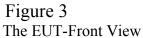




Figure 4
The EUT-Back View

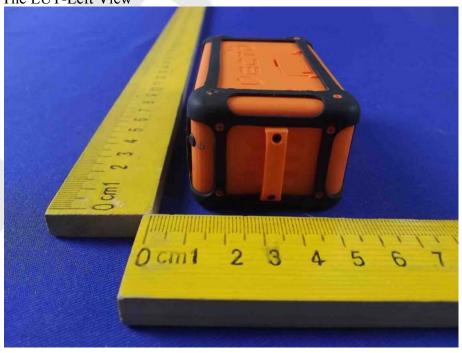




Figure 5
The EUT-Right View



Figure 6
The EUT-Left View



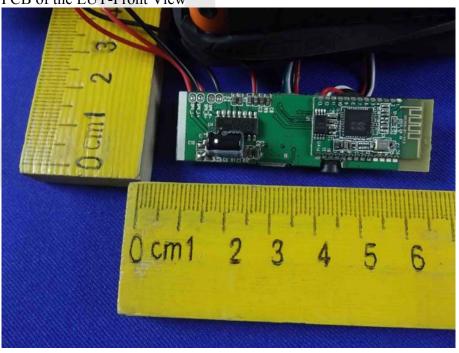


APPENDIX II (INTERNAL PHOTOS)

Figure 7
The EUT-Inside View



Figure 8 PCB of the EUT-Front View







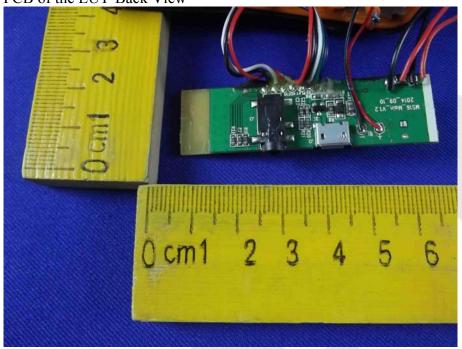


Figure 10 PCB of the EUT-Front View







