Reference No.: WTS13S0806847E Page 1 of 56

TEST REPORT

FCC ID : YY9-HE405407

Applicant : Bretford Manufacturing, Inc.

Address : 11000 Seymour Ave Franklin Park IL 60131 USA

Manufacturer : BCD China Electronics Manufacturing (Shenzhen) Ltd.

Address : 3/F&5/F, Bldg B2, Xin An No. 3 Industrial Park, Hang Cheng Industrial

Zone, Qian Jin Road, Xi Xiang, Bao An District, Shenzhen, Guangdong,

Equipment Under Test (EUT):

Product Name : PowerSync Cart 20 or 40 for iPad and iPad mini

Model No. : HE405LL/A, HE407LL/A

Standards : FCC CFR47 Part 15 C Section 15.247:2012

Date of Test : August 28~30, 2013

Date of Issue : September 16, 2013

Test Result : PASS*

Remark:

* The sample described above has been tested to be in compliance with the requirements of RSS-Gen Issue 3:2010. The test results have been reviewed and comply with the rules listed above and found to meet their essential requirements.

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

Waltek Services (Shenzhen) Co., Ltd.

Address: 1/F., Fukangtai Building, West Baima Road, Songgang Street, Baoan District, Shenzhen, Guangdong, China

Testing location: 1/F., Fukangtai Building, West Baima Road, Songgang Street, Baoan District, Shenzhen, Guangdong, China

Tel:+86-755-83551033 Fax:+86-755-83552400

Compiled by: Approved by:

Maibou zhang

Maikou Zhang / Project Engineer

Philo Zhong / Manager

Pholo shoul

Reference No.: WTS13S0806847E Page 2 of 56

2 Test Summary

Test Items	Test Requirement	Result
Radiated Emissions	15.205(a) 15.209(a)	PASS
Conducted Emissions	15.207(a)	PASS
6dB Bandwidth	15.247(a)(2)	PASS
Maximum Peak Output Power	15.247(b)(3),(4)	PASS
Power Spectral Density	15.247(e)	PASS
Band Edge	15.247(d)	PASS
Emissions from out of band	15.247(d)	PASS
Antenna Requirement	15.247(d)	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	15.203	PASS

3 Contents

			Page
1		/ER PAGE	
2		T SUMMARY	
3		NTENTS	
4	GEN	NERAL INFORMATION	5
	4.1	GENERAL DESCRIPTION OF E.U.T.	
	4.2	DETAILS OF E.U.T	
	4.3 4.4	TEST LOCATION	
5		JIPMENT USED DURING TEST	
	5.1	EQUIPMENTS LIST	
	5.2	MEASUREMENT UNCERTAINTY	
7	5.3	TEST EQUIPMENT CALIBRATION	6
6	CON	NDUCTED EMISSION	7
	6.1	E.U.T. OPERATION	
	6.2	EUT SETUP	
_	6.3	CONDUCTED EMISSION TEST RESULT	
7		DIATED EMISSIONS	
	7.1 7.2	EUT OPERATION: TEST SETUP	
	7.2	SPECTRUM ANALYZER SETUP	
	7.4	TEST PROCEDURE	13
	7.5	CORRECTED AMPLITUDE & MARGIN CALCULATION	
_	7.6	SUMMARY OF TEST RESULTS	
8		ND EDGE MEASUREMENT	
	8.1 8.2	Test Produce Test Result	
9		BANDWIDTH MEASUREMENT	
9		TEST PROCEDURE:	
	9.1 9.2	TEST PROCEDURE:	
10		KIMUM PEAK OUTPUT POWER	
10	10.1		
	10.1	TEST RESULT:	
11	POV	VER SPECTRAL DENSITY	29
	11.1	Test Procedure:	29
	11.2	TEST RESULT:	
12	EMI	SSIONS FROM OUT OF BAND	31
	12.1	Test Procedure:	31
	12.2	TEST RESULT:	31
13	ANT	ENNA REQUIREMENT	35
14	RF I	EXPOSURE	36
	14.1	REQUIMENTS:	36
	14.2		
15	PHC	DTOGRAPHS – TEST SETUP	37
	15.1	CONDUCTED EMISSION	37

Reference No.: WTS13S0806847E

Page 4 of 56

Reference No.: WTS13S0806847E Page 5 of 56

4 General Information

4.1 General Description of E.U.T.

Product Name : PowerSync Cart 20 or 40 for iPad and iPad mini

Model No. : HE405LL/A, HE407LL/A

Model Difference : HE405LL/A with two modules, two modules are exactly the

same(Including circuit schematics, PCB and appearance), the HE407LL/A with a module. Model HE405LL/A internal module and HE407LL/A internal module exactly the same. The model

HE405LL/A is testing sample.

Operation Frequency : 2404MHz ~ 2478MHz, 37 channels in total

Type of modulation: Bluetooth 4.0

Antenna Gain : 2.5dBi

4.2 Details of E.U.T.

Technical Data : Input:125 VAC, 8A (Max), 60Hz for HE405LL/A

Input:125 VAC, 5A (Max), 60Hz for HE407LL/A

Output: 5V,2.4A for each devices(HE405LL/A and HE407LL/A)

4.3 Test Facility

The test facility has a test site registered with the following organizations:

IC – Registration No.: 7760A

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 number 7760A, July 12, 2012.

• FCC – Registration No.: 880581

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory 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, May 26, 2011.

4.4 Test Location

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

5 Equipment Used during Test

5.1 Equipments List

Cond	Conducted Emissions					
Item Equipment Manufacturer M		Model No.	Serial No.	Last Calibration Date	Calibration Due Date	
1.	EMI Test Receiver	R&S	ESCI	100947	Sep.21,2012	Sep.20,2013
2.	LISN	R&S	ENV216	101215	Sep.21,2012	Sep.20,2013
3.	Cable	Тор	TYPE16(3.5M)	-	Sep.21,2012	Sep.20,2013

3m Semi-anechoic Chamber for Radiation Emissions

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMC Analyzer	Agilent	E7405A	MY45114943	Sep.21,2012	Sep.20,2013
2.	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Sep.21,2012	Sep.20,2013
3.	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Sep.21,2012	Sep.20,2013
4.	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Sep.21,2012	Sep.20,2013
5.	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	399	Sep.21,2012	Sep.20,2013
6.	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Sep.21,2012	Sep.20,2013
7.	Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-148	Sep.21,2012	Sep.20,2013
8.	Cable	Тор	EWO2014-7	-	Sep.21,2012	Sep.20,2013
9.	Cable	Тор	TYPE16(13M)	-	Sep.21,2012	Sep.20,2013
10.	DC POWER SUPPLY	LWDQGS	PS-303D		Sep.21,2012	Sep.20,2013
11.	Humidity Chamber	GTH-225-40-1P	IAA061213		Sep.21,2012	Sep.20,2013
12.	Spectrum Analyzer	ROHDE & SCHWARZ	FSL6	100959	Sep.21,2012	Sep.20,2013

5.2 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	± 1 x 10 ⁻⁶
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
De l'ate d'On sie a Facilité au test	± 5.03 dB (Bilog antenna 30M~1000MHz)
Radiated Spurious Emissions test	± 4.74 dB (Horn antenna 1000M~25000MHz)
Conducted Spurious Emissions test	± 3.64 dB (AC mains 150KHz~30MHz)

5.3 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

Reference No.: WTS13S0806847E Page 7 of 56

6 Conducted Emission

Test Requirement: FCC CFR 47 Part 15 Section 15.207

Test Method: ANSI C63.4:2003

Test Result: PASS

Frequency Range: 150kHz to 30MHz

Class: Class B

Limit: 66-56 dB_μV between 0.15MHz & 0.5MHz

 $56~dB\mu V$ between 0.5MHz & 5MHz $60~dB\mu V$ between 5MHz & 30MHz

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

Peak & Average if maximised peak within 6dB of Average

Limit

6.1 E.U.T. Operation

Operating Environment:

Temperature: $25.5 \, ^{\circ}\text{C}$ Humidity: $51 \, ^{\circ}\text{RH}$ Atmospheric Pressure: 1013 mbar

EUT Operation:

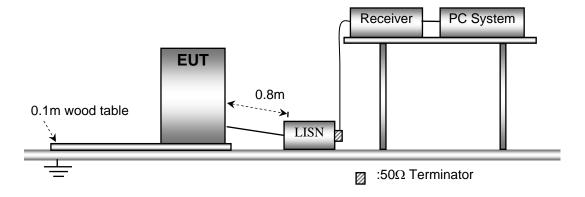
The EUT was tested in bluetooth linking mode.

The EUT was tested according to ANSI C63.4:2003. The frequency spectrum from 150kHz to 30MHz was investigated.

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.

6.2 EUT Setup

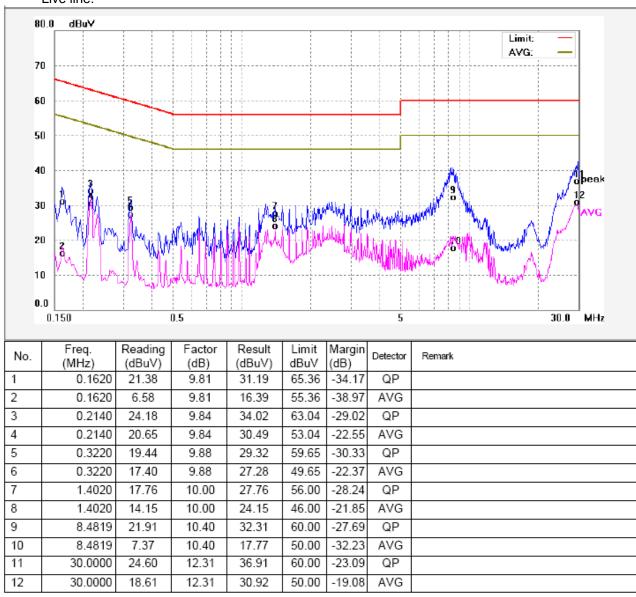
The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003.



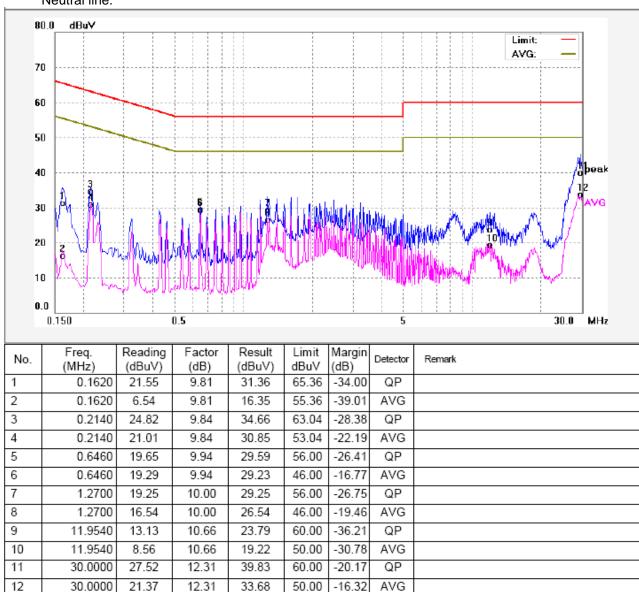
6.3 Conducted Emission Test Result

An initial pre-scan was performed on the live and neutral lines.

Live line:



Neutral line:



Reference No.: WTS13S0806847E Page 10 of 56

7 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209

& 15.247

Test Method: ANSI C63.4:2003

Test Result: PASS
Measurement Distance: 3m

Limit:

LIIIII.	LITTIL.					
_	Field Strei	ngth	Field Strength Limit at 3m Measurement Dist			
Frequency (MHz)	uV/m	Distance (m)	uV/m	dBuV/m		
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80		
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40		
1.705 ~ 30	30	30	100 * 30	20log ⁽³⁰⁾ + 40		
30 ~ 88	100	3	100	20log ⁽¹⁰⁰⁾		
88 ~ 216	150	3	150	20log ⁽¹⁵⁰⁾		
216 ~ 960	200	3	200	20log ⁽²⁰⁰⁾		
Above 960	500	3	500	20log ⁽⁵⁰⁰⁾		

7.1 EUT Operation:

Operating Environment:

Temperature: $25.5 \, ^{\circ}\text{C}$ Humidity: $51 \, ^{\circ}\text{RH}$ Atmospheric Pressure: $1004 \, \text{mbar}$

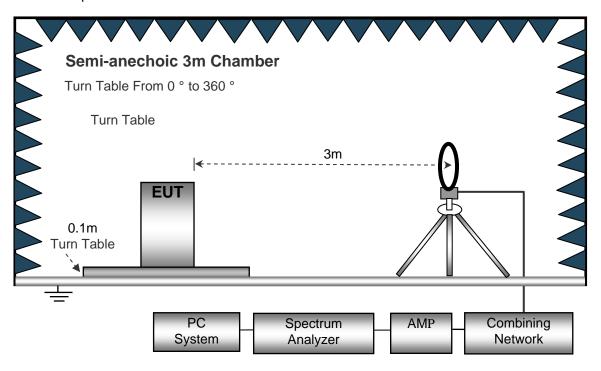
EUT Operation:

The EUT was tested in bluetooth linking mode, and test data were shown as follow.

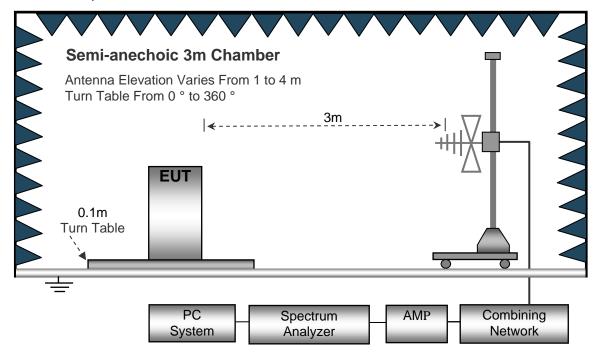
7.2 Test Setup

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 test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



Aechoic 3m Chamber Antenna Elevation Varies From 1 to 4 m Turn Table From 0 ° to 360 ° 3m **EUT** 0.1m Turn Table **Absorbers** PC

Spectrum

Analyzer

AMP

Combining Network

The test setup for emission measurement above 1 GHz.

7.3 **Spectrum Analyzer Setup**

According to FCC Part15 Rules, the system was tested from 9kHz to 25000MHz.

System

Below 30MHz	Sweep Speed IF Bandwidth Video Bandwidth	10KHz
	Resolution Bandwidth	10KHz
30MHz ~ 1GH	z	
	Sweep Speed	Auto
	IF Bandwidth	120 KHz
	Video Bandwidth	100KHz
	Quasi-Peak Adapter Bandwidth	120 KHz
	Quasi-Peak Adapter Mode	Normal
	Resolution Bandwidth	100KHz
Above 1GHz		
	Sweep Speed	Auto
	IF Bandwidth	120 KHz
	Video Bandwidth	3MHz
	Quasi-Peak Adapter Bandwidth	120 KHz
	Quasi-Peak Adapter Mode	Normal
	Resolution Bandwidth	

Reference No.: WTS13S0806847E Page 13 of 56

7.4 Test Procedure

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 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 moved from 1m to 4m to find out the maximum emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in X axis, so the worst data were shown as follow.

7.5 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 means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

Margin = Corr. Ampl. - Limit

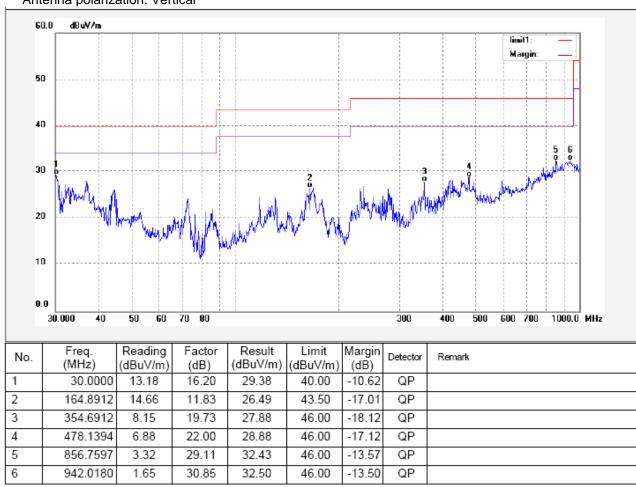
7.6 Summary of Test Results

Test Frequency : Below 30MHz

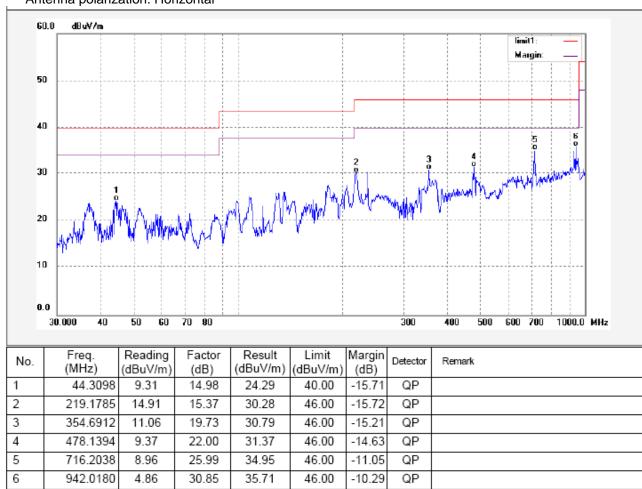
All emissions were more than 20 dB below the limit and therefore not reported.

Test Frequency: 30MHz ~ 1000MHz

Antenna polarization: Vertical



Antenna polarization: Horizontal



Test Frequency: 1GHz ~ 18GHz Test mode: transmitting at lower channel Fundamental wave Antenna polarization: Vertical 96.0 dBuV/m limit1: 86 76 66 56 46 10 0 36 26 16 6 1000.0000 2700.00 4400.00 6100.00 7800.00 9500.00 11200.00 12900.00 14600.00 16300.0018000.00MHz Freq. Reading Factor Result Limit Margin Detector Remark No. (MHz) (dBuV/m) (dB) (dBuV/m) (dBuV/m) (dB) 4808.000 62.48 1 -11.97 50.51 74.00 -23.49 peak 2 4808.000 54.65 -11.97 42.68 54.00 -11.32 AVG 3 8497.000 39.70 46.58 -6.8874.00 -34.30peak 4 8497.000 38.21 54.00 -22.67 -6.88 31.33 AVG 5 11778.000 47.28 -4.53 42.75 74.00 -31.25 peak 6 38.00 -4.53 33.47 54.00 -20.53

74.00

54.00

74.00

54.00

74.00

54.00

AVG

peak

AVG

peak

AVG

peak

AVG

-27.82

-16.58

-26.04

-15.50

-24.89

-13.48

11778.000

14413.000

14413.000

16725.000

16725.000

17949.000

17949.000

45.77

37.01

48.67

39.21

42.80

34.21

0.41

0.41

-0.71

-0.71

6.31

6.31

46.18

37.42

47.96

38.50

49.11

40.52

7

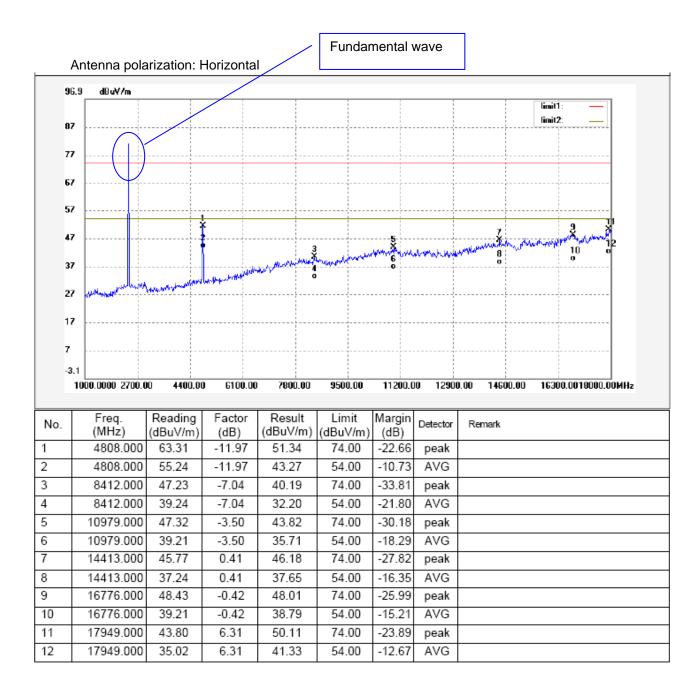
8

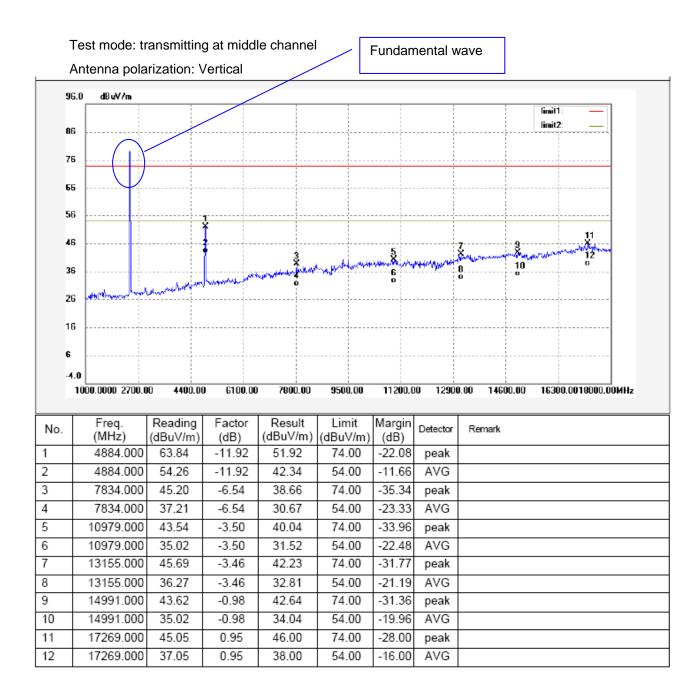
9

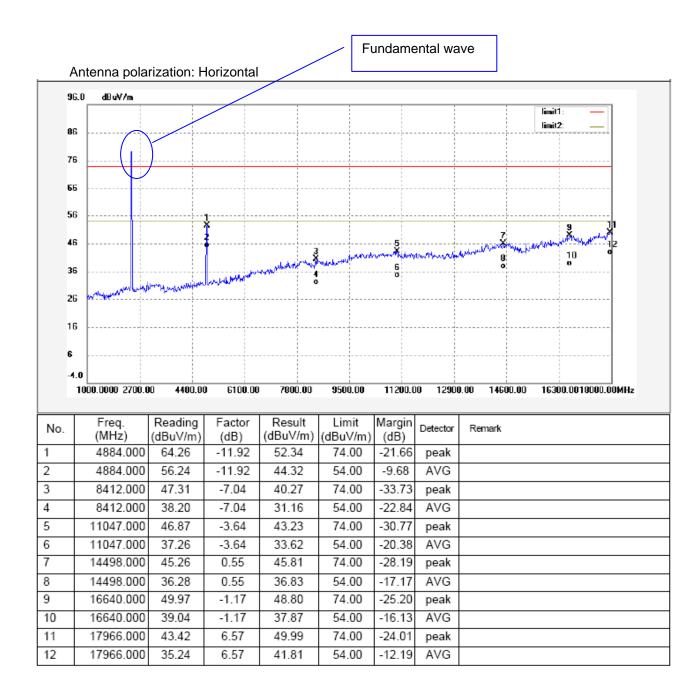
10

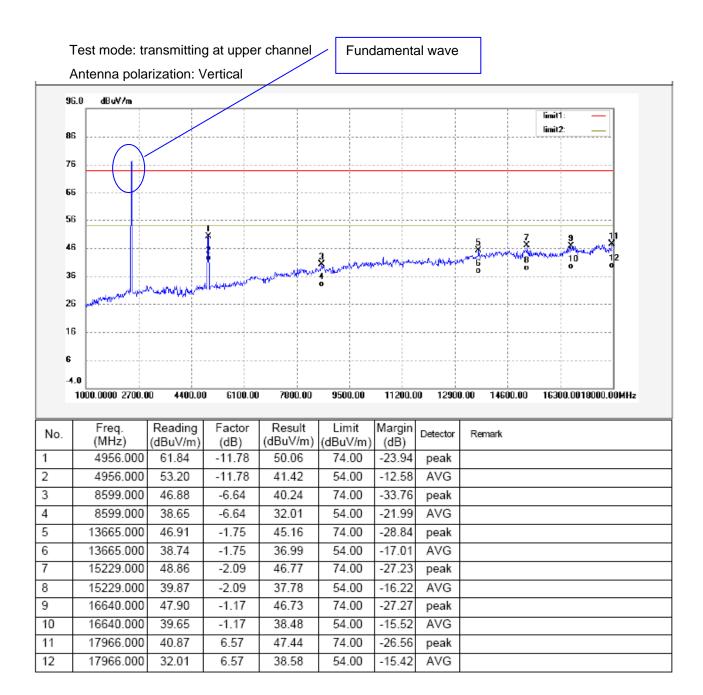
11

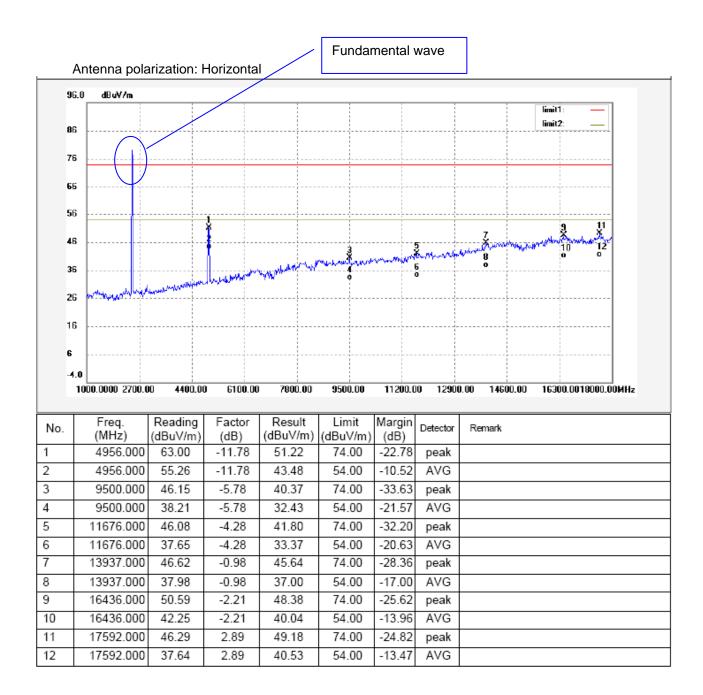
12











Test Frequency : Above 18GHz

The measurements were more than 20 dB below the limit and not reported.

Reference No.: WTS13S0806847E Page 22 of 56

8 Band Edge Measurement

Test Requirement: Section 15.247(d) 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) and

15.205(c).

Test Method: KDB558074 D01 V02 10/04/2012

Measurement Distance: 3m

Detector: For Peak value:

RBW = 1MHz

VBW =3MHz; Sweep = auto

Detector function = peak

Trace = max hold
For Average value:

RBW = 1MHz

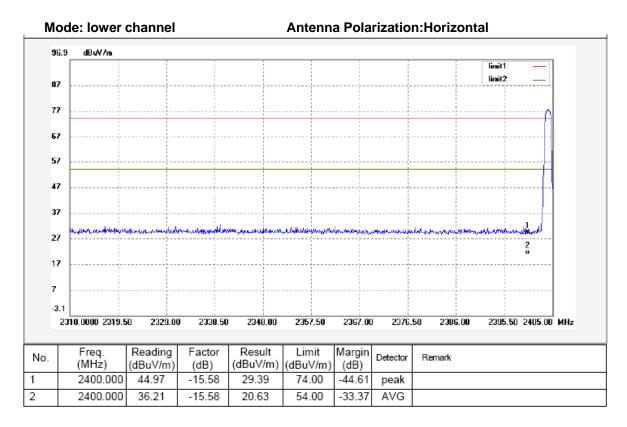
VBW=10Hz; Sweep = auto Detector function = Average

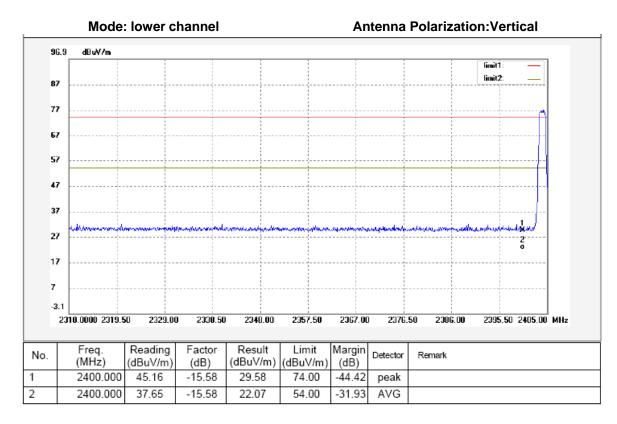
Trace = max hold

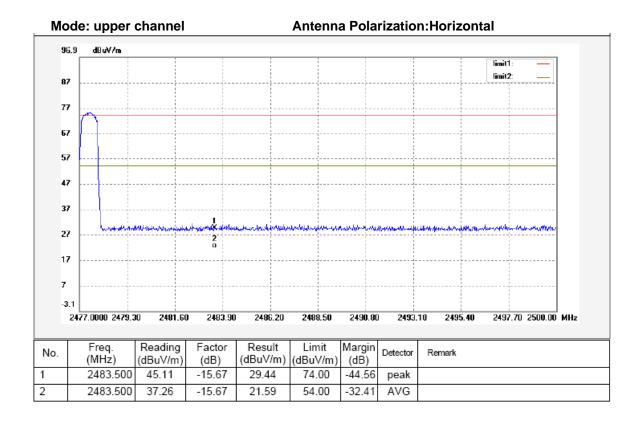
8.1 Test Produce

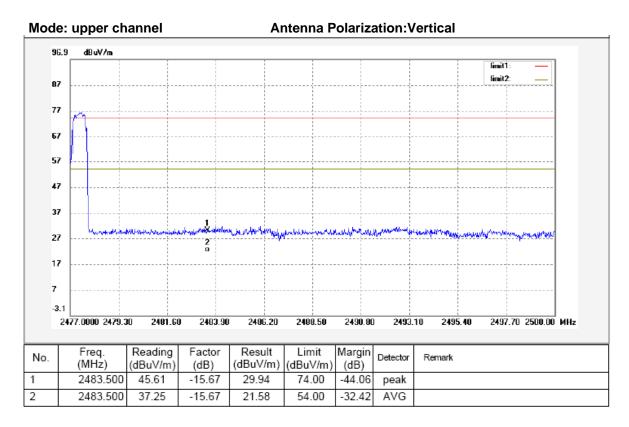
- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
- 2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

8.2 Test Result









9 6 dB Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB558074 D01 V02 10/04/2012

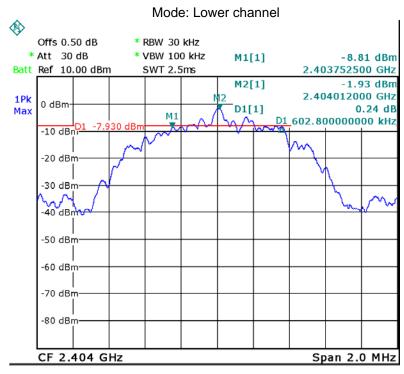
9.1 Test Procedure:

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
- 2. Set the spectrum analyzer: RBW = 30kHz, VBW = 100kHz

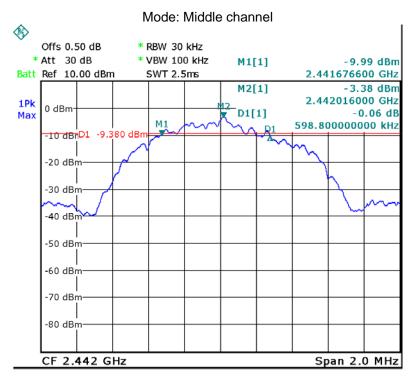
9.2 Test Result:

Operation mode	Bandwidth (MHz)
Lower channel	0.603
Middle channel	0.599
Upper channel	0.563

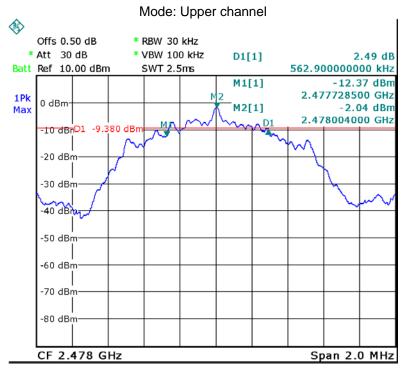
Test result plot as follows:



Date: 29.AUG.2013 11:42:33



Date: 29.AUG.2013 11:51:11



Date: 29.AUG.2013 11:55:59

Reference No.: WTS13S0806847E Page 27 of 56

10 Maximum Peak Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB558074 D01 V02 10/04/2012

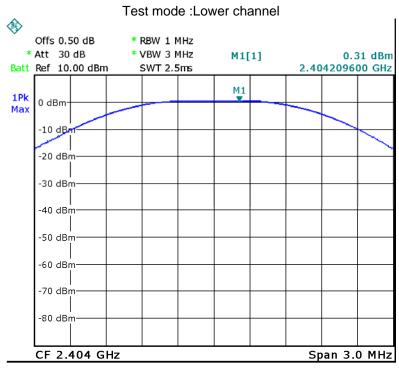
10.1 Test Procedure:

KDB558074 D01 V02 10/04/2012 section 8.1.2 Option 2

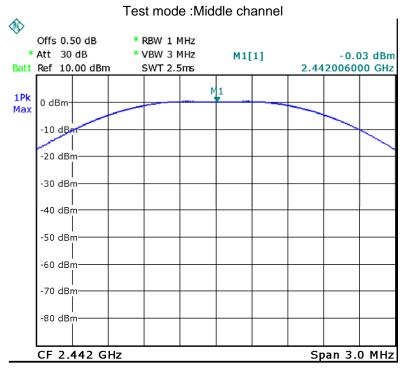
- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set the spectrum analyzer: RBW = 1MHz. VBW = 3MHz. Sweep = auto; Detector Function = Peak, Set the span to fully encompass the DTS bandwidth.
- 3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

10.2 Test Result:

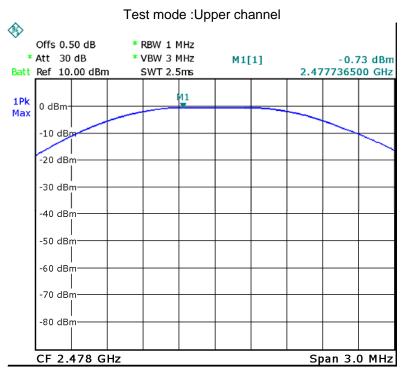
Maximum Peak Output Power (dBm)					
Lower channel Middle channel Upper channel					
-0.31 -0.03 -0.73					
Limit					
1W/30dBm					



Date: 29.AUG.2013 12:10:45



Date: 29.AUG.2013 12:08:57



Date: 29.AUG.2013 12:00:11

11 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB558074 D01 V02 10/04/2012

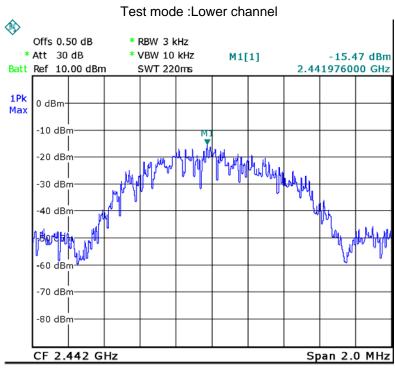
11.1 Test Procedure:

KDB558074 D01 V02 10/04/2012 section 9.1 Option 1

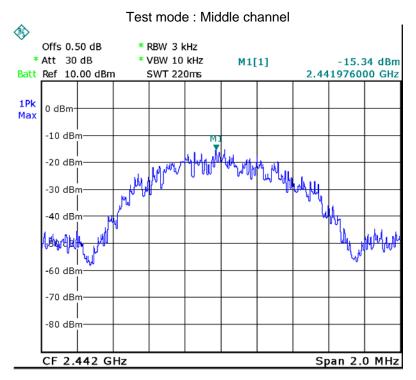
- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
- 3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

11.2 Test Result:

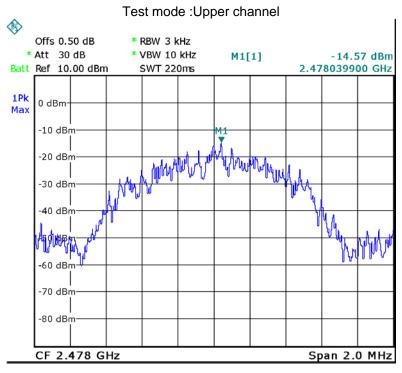
Test mode :TX 11b					
1	10 Maximum Peak Output Power (dBm per 3kHz)				
Lower channel Middle channel Upper channel					
-15.47 -15.34 -14.57					
Limit					
8dBm per 3kHz					



Date: 29.AUG.2013 12:16:10



Date: 29.AUG.2013 12:16:33



Date: 29.AUG.2013 12:17:27

Reference No.: WTS13S0806847E Page 31 of 56

12 Emissions from out of band

Test Requirement: FCC CFR47 Part 15 Section 15.247(d)
Test Method: KDB558074 D01 V02 10/04/2012

Test Limit: Emissions produced by the device outside the authorized frequency

band shall be at least 20 dB below that in the 100 kHz bandwidth

within the band that contains the fundamental.

Test Mode: Test in fixing operating frequency at lower, middle, upper channel.

12.1 Test Procedure:

KDB558074 D01 V02 10/04/2012 section 10.1 clause1

The maximum peak conducted output power procedure was used to demonstrate compliance to 15.247(b)(3) requirements, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum inband peak PSD level in 100 kHz. This measurement was performed over a frequency range that spans from the lowest frequency generated in the device up to and including the tenth harmonic of the highest fundamental frequency.

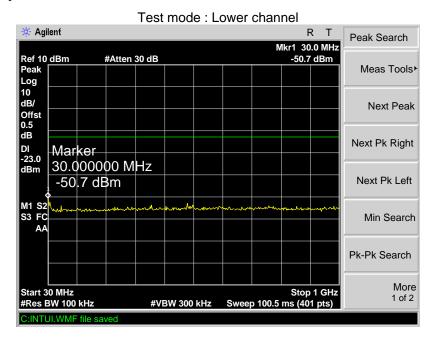
- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set to span from the lowest frequency generated in the device up to and including the tenth harmonic of the highest fundamental frequency
- 3. For below 1GHz,Set RBW = 100kHz and VBW = 300kHz.Sweep =auto. For above1GHz,Set RBW = 100kHz and VBW = 300kHz.Sweep =auto.
- 4. mark the worst point and record.

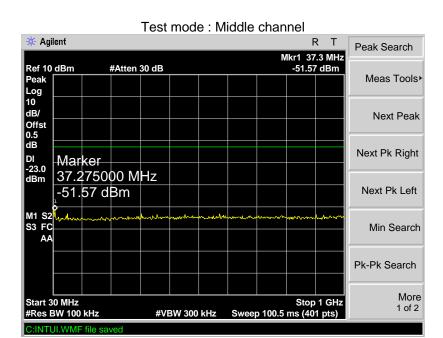
12.2 Test Result:

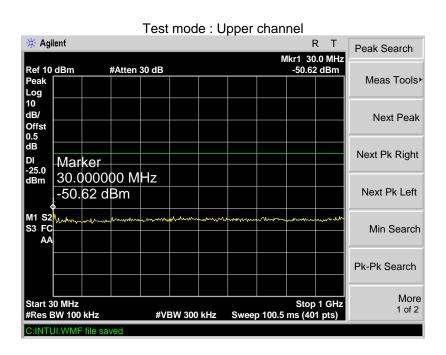
Test Frequency: Below 30MHz

Remark: For emissions below 30MHz, no emission higher than background level, so the data does not show in the report.

Test Frequency: 30MHz ~ 1GHz

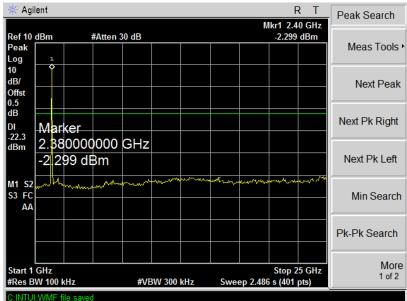




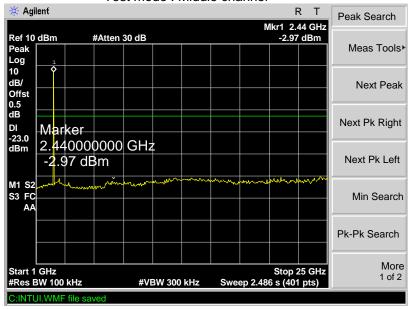


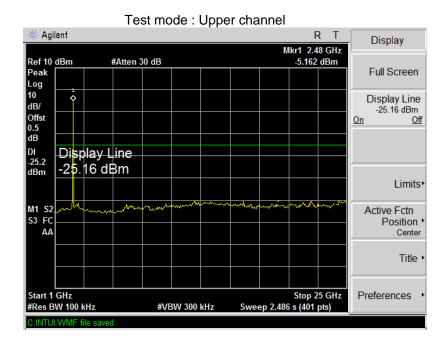
Test Frequency: 1GHz ~ 25GHz





Test mode: Middle channel





13 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. This product has a internal permanent antenna, fulfill the requirement of this section.

Reference No.: WTS13S0806847E Page 36 of 56

14 RF Exposure

Test Requirement: FCC Part 1.1307

Test Mode: The EUT work in test mode(Tx).

14.1 Requiments:

RF exposure evaluation is required if the separation distance between the user and the device's radiating element is greater than 20 cm, except when the device operates as follows:

below 1.5 GHz and the maximum e.i.r.p. of the device is equal to or less than 2.5 W;

at or above 1.5 GHz and the maximum e.i.r.p. of the device is equal to or less than 5 W.

14.2 Result

Antenna Gain (dBi)	Peak Output Power (dBm)	e.i.r.p. (W)	Limit (W)	Test Result
2.5	0.31	0.0019	5	Complies

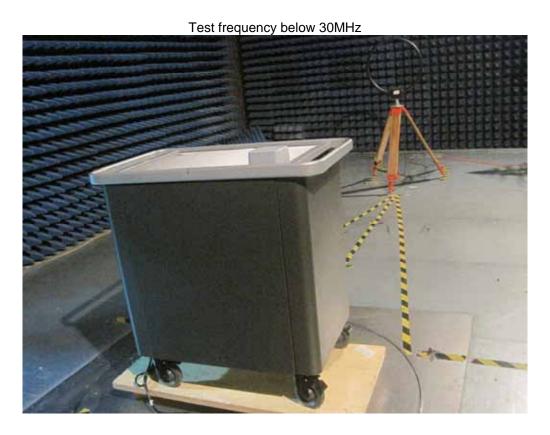
Remark:dBm=10lgmw,e.i.r.p.=Antenna gain+conducted power

15 Photographs - Test Setup

15.1 Conducted Emission



15.2 Radiated Emission

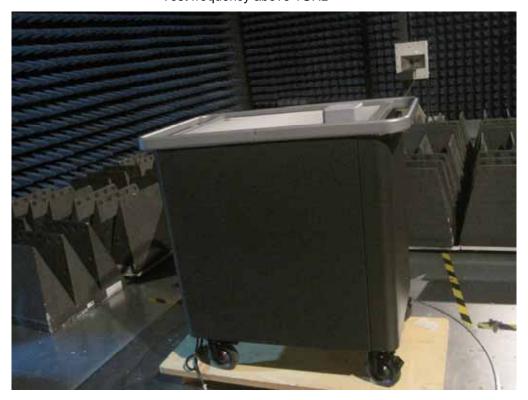


Waltek Services (Shenzhen) Co.,Ltd. http://www.waltek.com.cn

Test frequency from 30MHz to 1GHz



Test frequency above 1GHz



16 Photographs - Constructional Details

16.1 EUT – External View for HE405LL/A





Reference No.: WTS13S0806847E Page 40 of 56





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16.2 EUT – External View for HE407LL/A



Reference No.: WTS13S0806847E Page 42 of 56



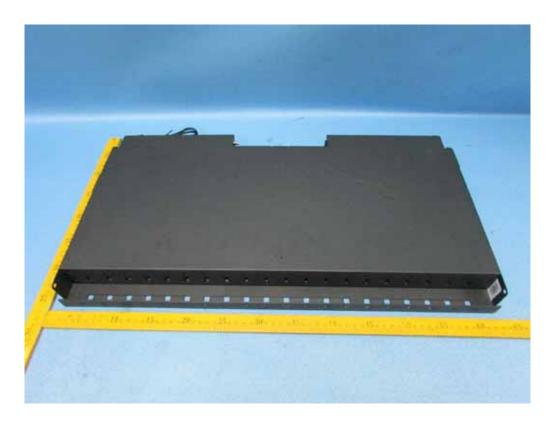


Reference No.: WTS13S0806847E Page 43 of 56





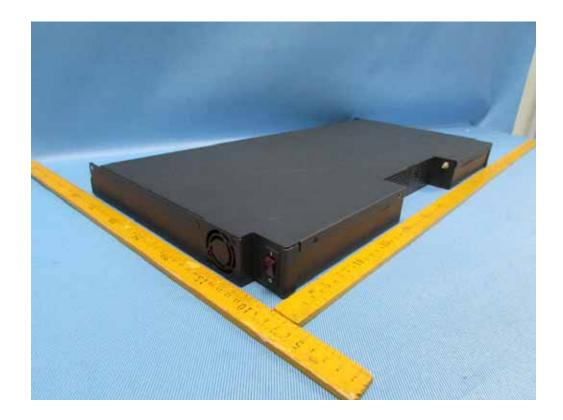
16.3 EUT-Internal View





Reference No.: WTS13S0806847E Page 45 of 56



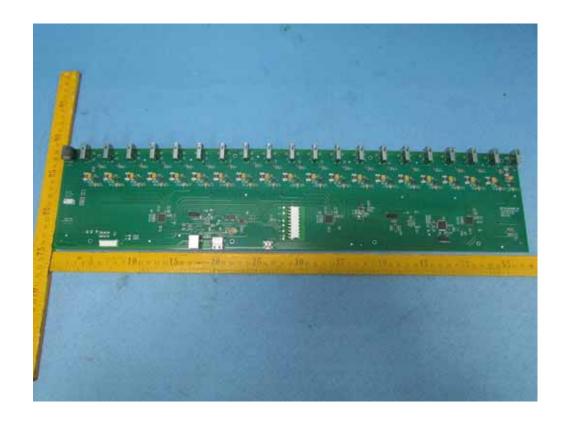


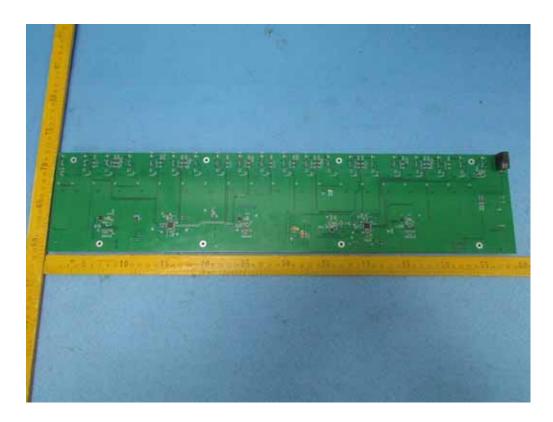
Reference No.: WTS13S0806847E Page 46 of 56



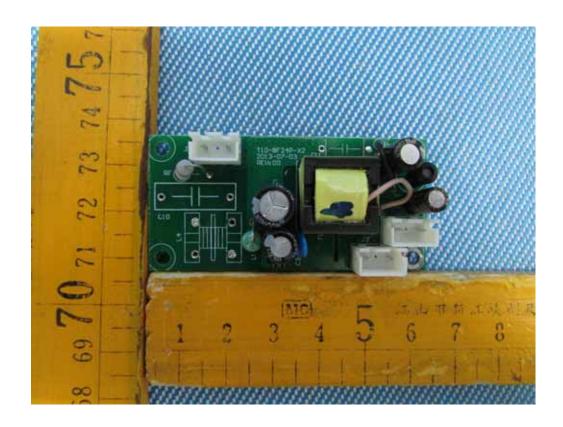


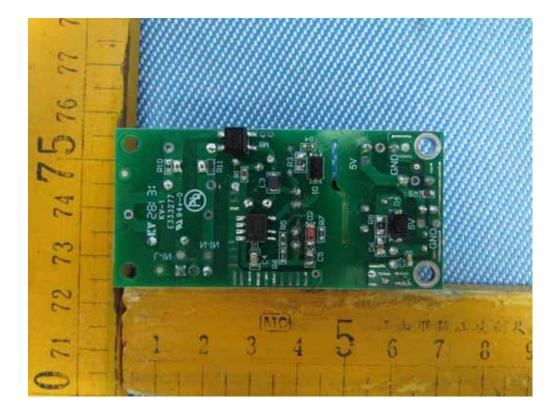
Reference No.: WTS13S0806847E Page 47 of 56





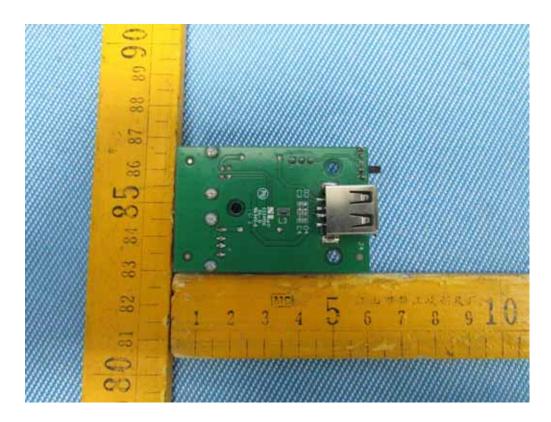
Reference No.: WTS13S0806847E Page 48 of 56



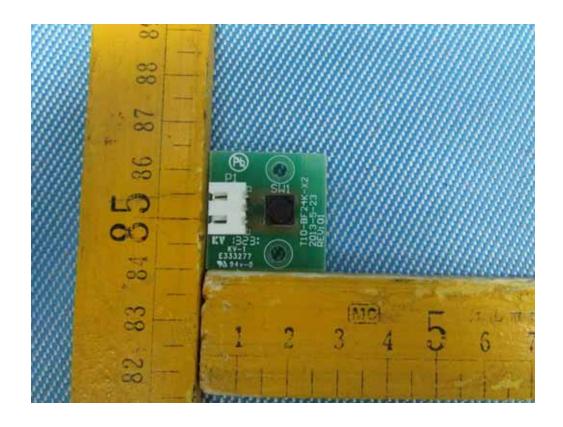


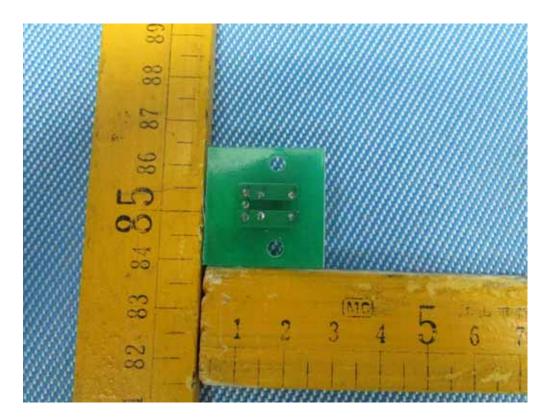
Reference No.: WTS13S0806847E Page 49 of 56



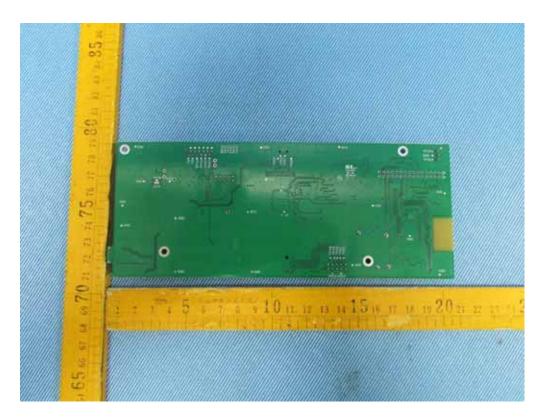


Reference No.: WTS13S0806847E Page 50 of 56

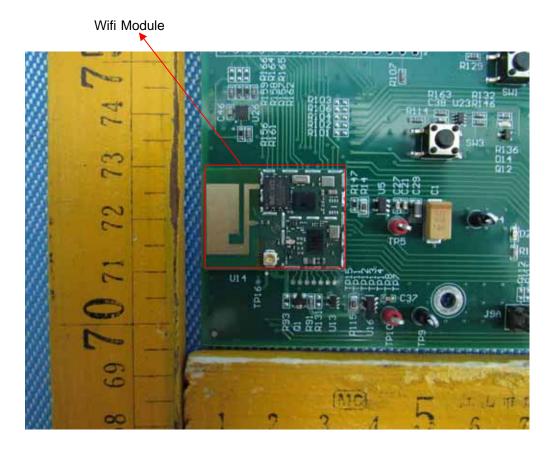


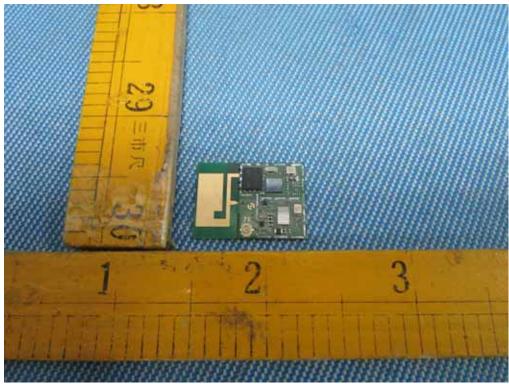


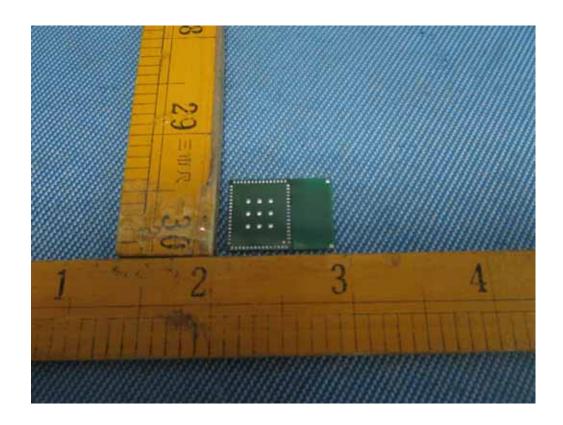




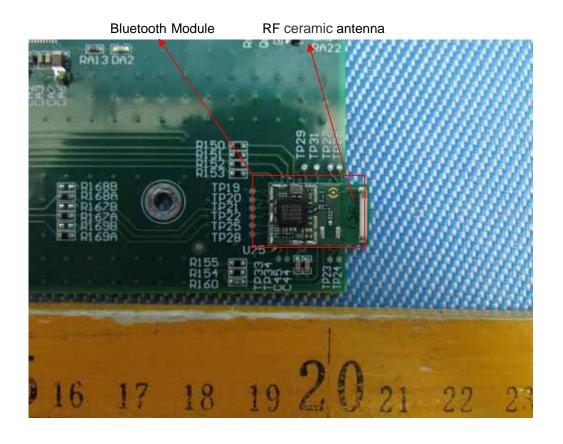
16.4 WIFI Module View



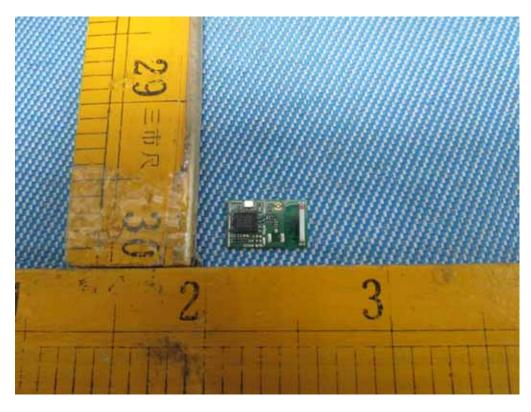


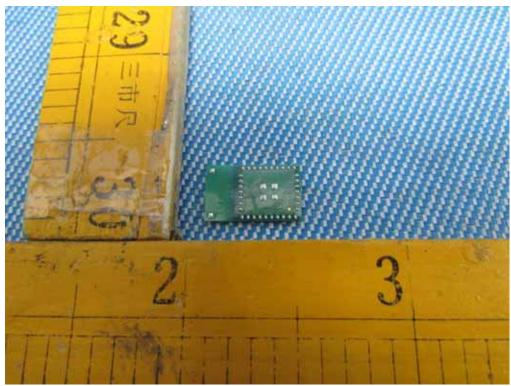


16.5 BT Module View



Reference No.: WTS13S0806847E Page 54 of 56

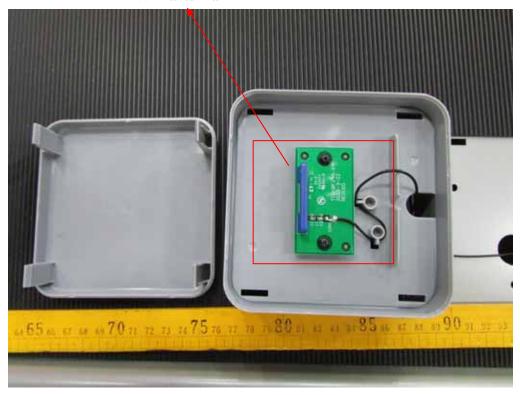




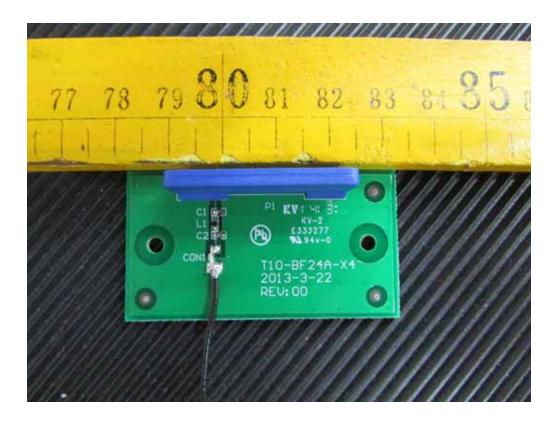
16.6 EUT- Pizza box View



Wifi antenna



Reference No.: WTS13S0806847E Page 56 of 56





==End of test report==