

FCC PART 15 SUBPART C TEST REPORT						
	FCC Part 15.249					
Report Reference No	CTL1410112481-WF02					
Compiled by						
(position+printed name+signature):	File administrators Jacky Chen Jacky Chen					
Name of the organization performing the tests	File administrators Jacky ChenJacky ChenTest Engineer Tracy QiJacky ChenManager Tracy QiJacky Chen					
(position+printed name+signature):						
Approved by						
(position+printed name+signature):	Manager Tracy Qi Trang Ox					
Date of issue	Oct. 24, 2014					
Test Firm	Shenzhen CTL Testing Technology Co., Ltd.					
Address	Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China.					
Applicant's name	General Procurement, Inc					
Address	800 E Dyer Rd Santa Ana, CA 92705 United States					
Test specification: 6						
Standard	FCC Part 15.249: Operation within the bands 920-928 MHz, 2400-2483.5 MHz, 5725-5850 MHz and 24.0 - 24.25 GHz.					
TRF Originator	Shenzhen CTL Testing Technology Co., Ltd.					
Master TRF	Dated 2011-01					
Shenzhen CTL Testing Technology						
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Test item description:	Tablet PC					
Trade Mark:	N/A					
Models/Type reference	VTA0800I, WI8001Q, WI800XX					
Modulation	GFSK					
Work Frequency	2402 MHz~2480 MHz					
Antenna Type	internal					
Antenna Gain	0.5dBi					
FCC ID	S94VTA0800I					
Result:	Positive					

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TEST REPORT

Test Report No. :	CTL1410112481-WF02	Oct. 24, 2014 Date of issue
Equipment under Test	: Tablet PC	
Model /Type	: VTA0800I	
Listed Modes	: WI8001Q, WI800XX	
Difference Description	: Only the color and mode	l's name is different
Applicant	: General Procurement, I	nc
Address	: 800 E Dyer Rd Santa An	a, CA 92705 United States
Manufacturer	Jiangxi Wei Heng Digita	al Company Limited
Address	: National High-tech Indus Province, China	trial Development Zone, Xinyu City, Jiang
Test Result according to the standards on page 4:		Positive

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. <u>TEST STANDARDS</u>

The tests were performed according to following standards:

FCC Rules Part 15.249: Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz, 5725 - 5875 MHz, and 24.0 - 24.25 GHz.

ANSI C63.4-2009



2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	Oct. 11, 2014
Testing commenced on	:	Oct. 11, 2014
Testing concluded on	:	Oct. 24, 2014

2.2. Equipment Under Test

Power supply system utilised

Power supply voltage

• 120V / 60 Hz o 115V/60Hz 0 12 V DC o 24 V DC o Other (specified in blank below)

DC 3.7V from battery

2.3. Short description of the Equipment under Test (EUT)

The EUT is a Tablet PC work at 2402~2480 MHz support Bluetooth 4.0. Channel List:

The EUT is a Tat Channel List:	olet PC work at 240	2~2480 MHz supp	ort Bluetooth 4.0.	79
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Ö
00	2402	21	2444	
01	2404	22 C	2446	
02	2406	23	2448	-
03	2408	24	2450	7 0
04	2410	25	2452	
05	2412	26	2454	
06	2414	27	2456	2
07	2416	28	2458	0
08	2418	29	2460	07
09	2420	30	2462	5
10	2422	31	2464	
11	2424	32	2466	
12	2426	33011	2468	
13	2428	34	2470	
14	2430	35	2472	
15	2432	36	2474	
16	2434	37	2476	
17	2436	38	2478	
18	2438	39	2480	
19	2440			
20	2442			

Modulation: GFSK For more details, refer to the user's manual of the EUT. Serial number: Prototype

2.4. EUT operation mode

Test Mode(TM)	Description	Remark
TM1	Bottom Channel Transmitting	/
TM2	Middle Channel Transmitting	/
TM3	Top Channel Transmitting	/
TM4	Charging and Keeping TX	power by AC Adapter

The field strength of radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis).

The following data show only with the worst case setup.

The worst case of Y axis was reported.

Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.

2.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- o supplied by the manufacturer
- supplied by the lab
- O AC adapter FCC VOC approved

Manufacturer : Shenzhen Perfect Gallant Tec Co., Ltd Model No. : PGAE0500200U1UL

Technol

2.6. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: S94VTA0800I filing to comply with Section 15.249 of the FCC Part 15, Subpart C Rules.

CT Testing

2.7. Modifications

No modifications were implemented to meet testing criteria.

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd. Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 22/EN 55022 requirements.

3.2. Test Facility

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

IC Registration No.: 9618B

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 9618B on November 13, 2013.

FCC-Registration No.: 970318

Shenzhen CTL Testing Technology 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 970318, December 19, 2013.

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges: Temperature: 15-35 ° C

Humidity:

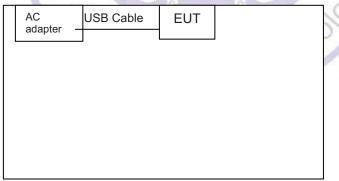
Atmospheric pressure:

950-1050mbar

30-60 %

3.4. Configuration of Tested System

Fig. 2-1 Configuration of Tested System



Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
USB Cable	1.2	Unshielded	Without Core

3.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTL laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10dB	(1)
Radiated Emission	1~26.5GHz	4.32dB	(1)
Conducted Disturbance	0.15~30MHz	3.20dB	(1)

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



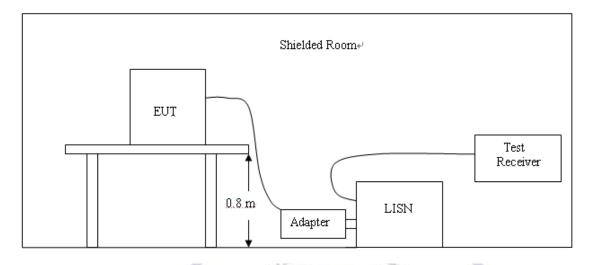
Calibration Calibration Test Equipment Manufacturer Model No. Serial No. Due Date Date Sunol Sciences **Bilog Antenna** JB1 A061713 2014/07/12 2015/07/11 Corp. **EMI Test Receiver** R&S ESCI 103710 2014/07/10 2015/07/09 E4407B MY45108355 2014/07/06 2015/07/05 Spectrum Analyzer Agilent Controller Controller **EM Electronics** N/A 2014/07/06 2015/07/05 EM 1000 Sunol Sciences Horn Antenna DRH-118 A062013 2014/07/12 2015/07/11 Corp. Horn Antenna SCHWARZBECK **BBHA9170** 1562 2014/07/12 2015/07/11 Active Loop Antenna SCHWARZBECK FMZB1519 1519-037 2014/07/12 2015/07/11 LISN R&S ENV216 101316 2014/07/10 2015/07/09 LISN SCHWARZBECK **NSLK8127** 8127687 2014/07/10 2015/07/09 Microwave HP 8349B 3155A00882 2014/07/10 2015/07/09 Preamplifier HP Amplifier 8447D 3113A07663 2014/07/10 2015/07/09 **Transient Limiter** LIT-153 2014/07/10 Com-Power 532226 2015/07/09 Radio Communication R&S CMU200 3655A03522 2014/07/06 2015/07/05 Tester Temperature/Humidity 22522 2014/07/10 zhicheng ZC1-2 2015/07/09 Meter SIGNAL HP 8647A 3200A00852 2014/07/10 2015/07/09 GENERATOR Wideband Peak Power Anritsu ML2495A 220.23.35 2014/07/06 2015/07/05 Meter **Climate Chamber** ESPEC EL-10KA A20120523 2014/07/06 2015/07/05 9SH10-**High-Pass Filter** K&L 2014/07/06 2015/07/05 2700/X12750 -0/0 41H10-P **High-Pass Filter** K&L 1375/U12750 2014/07/06 2015/07/05 -0/0

3.6. Equipments Used during the Test

4. TEST CONDITIONS AND RESULTS

4.1. Conducted Emissions Test

TEST CONFIGURATION



TEST PROCEDURE

1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4.

2 Support equipment, if needed, was placed as per ANSI C63.4.

3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

4 If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.

5 All support equipments received AC power from a second LISN, if any.

6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.

7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

8 During the above scans, the emissions were maximized by cable manipulation.

The RBW/VBW for 150KHz to 30MHz: 9KHz

CONDUCTED POWER LINE EMISSION LIMIT

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following :

Eregueney	Maximum RF Line Voltage (dBµV)					
Frequency (MHz)	CLAS	SS A	CLASS B			
(********	Q.P.	Ave.	Ave.			
0.15 - 0.50	79	66	66-56*	56-46*		
0.50 - 5.00	73	60	56	46		
5.00 - 30.0	73	60	60	50		

* Decreasing linearly with the logarithm of the frequency

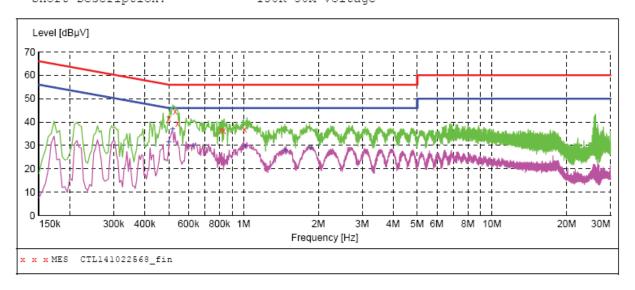
For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

TEST RESULTS

See next pages.



SCAN TABLE: "Voltage (9K-30M) FIN" Short Description: 150K-30M Voltage



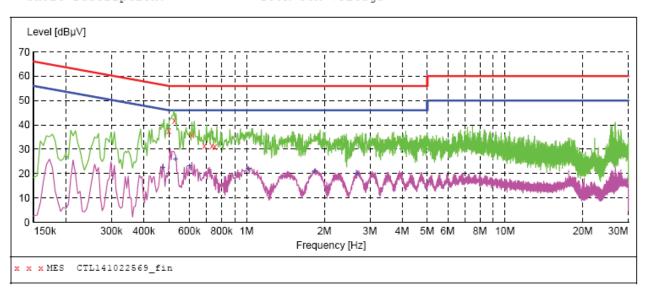
MEASUREMENT RESULT: "CTL141022568 fin"

10/22/2014	1:44PM						
Frequenc MH	-	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.50000	0 41.40	10.2	56	14.6	QP	L1	GND
0.53000	0 44.50	10.2	56	11.5	QP	L1	GND
0.54200	0 39.40	10.2	56	16.6	QP	L1	GND
0.81200	0 36.50	10.2	56	19.5	QP	L1	GND
0.83000	0 36.20	10.2	56	19.8	QP	L1	GND
1.01000	0 37.00	10.3	56	19.0	QP	L1	GND

MEASUREMENT RESULT: "CTL141022568 fin2"

10/22/2014 1:44PM Level Transd Limit Margin Detector Line PE Frequency dBµV dB dBµV dB MHz 31.40 10.2 0.500000 14.6 AV 46 L1 GND 9.2 AV 0.518000 36.80 10.2 46 ь1 GND 46 0.626000 29.90 10.2 16.1 AV ь1 GND 1.016000 29.80 10.3 46 16.2 AV L1 GND 10.3 46 10.3 46 1.478000 27.90 46 18.1 AV ь1 GND 1.868000 г1 29.10 16.9 AV GND





MEASUREMENT RESULT: "CTL141022569_fin"

10/22/2014							
Frequenc	cy Level Hz dBuV		Limit dBuV	Margin dB	Detector	Line	PE
111	.12 ασμν	uр	αbμv	чъ			
0.50000	37.80	10.2	56	18.2	QP	N	GND
0.52400	00 41.80	10.2	56	14.2	QP	N	GND
0.61400	35.90	10.2	56	20.1	QP	N	GND
0.68600	31.50	10.2	56	24.5	QP	N	GND
0.73400	31.30	10.2	56	24.7	QP	N	GND
0.75200	30.90	10.2	56	25.1	QP	N	GND

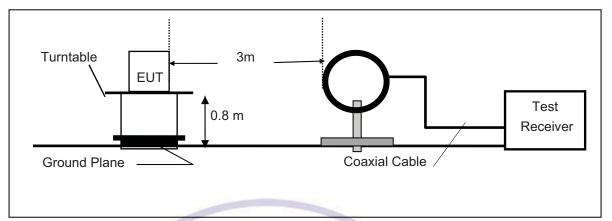
MEASUREMENT RESULT: "CTL141022569_fin2"

10/22/2014 1 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.474000	22.30	10.2	46	24.1	AV	N	GND
0.530000	26.00	10.2	46	20.0	AV	N	GND
0.602000	23.10	10.2	46	22.9	AV	Ν	GND
1.016000	22.20	10.3	46	23.8	AV	Ν	GND
1.832000	21.20	10.3	46	24.8	AV	Ν	GND
2.678000	20.10	10.4	46	25.9	AV	N	GND

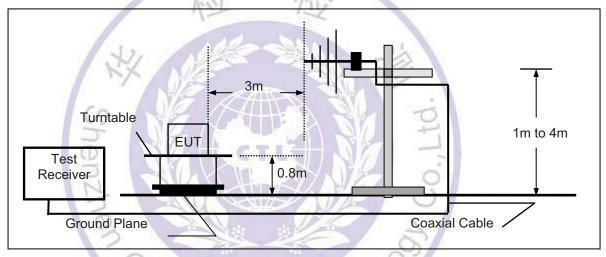
4.2. Radiated Emission Test

TEST CONFIGURATION

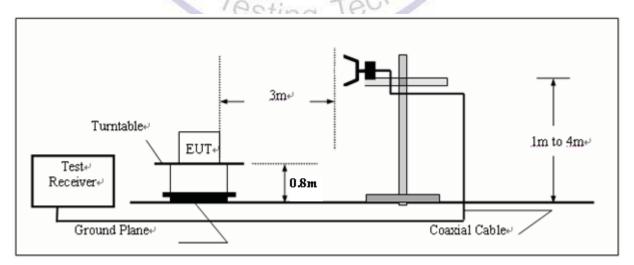
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



V1.0

FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

RADIATION LIMIT

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

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 varied from 1m to 4m to find out the highest 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. Based on the Frequency Generator in the device include 26MHz.The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

Note:

Three axes are chosen for pretest, the Y axis is the worst mode for final test.

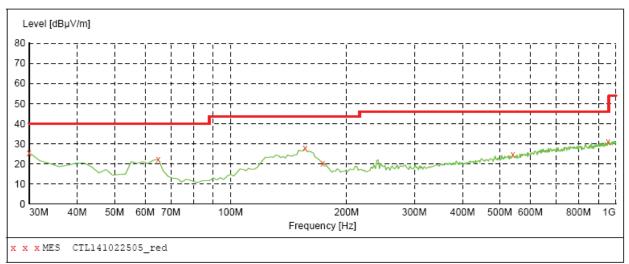
For battery operated equipment, the equipment tests shall be performed using a new battery.

TEST RESULTS

All the test modes (TM1, TM2, TM3 and TM4) completed for test. The worst case of Radiated Emission is TM4; the test data of this mode was reported.

Below 1GHz Test Results: QP detector is used

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SWEEP TABLE: "test (30M-1G)"
Short Description: Field Strength
Start Stop Detector Meas. IF Transducer
Frequency Frequency Time Bandw.
30.0 MHz 1.0 GHz MaxPeak 300.0 ms 120 kHz JB1
```



MEASUREMENT RESULT: "CTL141022505 red"

10/22/2014 2: Frequency MHz	10PM Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	25.50	21.1	40.0	14.5		0.0	0.00	HORIZONTAL
64.920000	22.30	8.4	40.0	17.7		0.0	0.00	HORIZONTAL
156.100000	27.80	14.0	43.5	15.7		0.0	0.00	HORIZONTAL
173.560000	20.20	13.3	43.5	23.3		0.0	0.00	HORIZONTAL
540.220000	24.50	20.8	46.0	21.5		0.0	0.00	HORIZONTAL
955.380000	31.10	26.7	46.0	14.9		0.0	0.00	HORIZONTAL

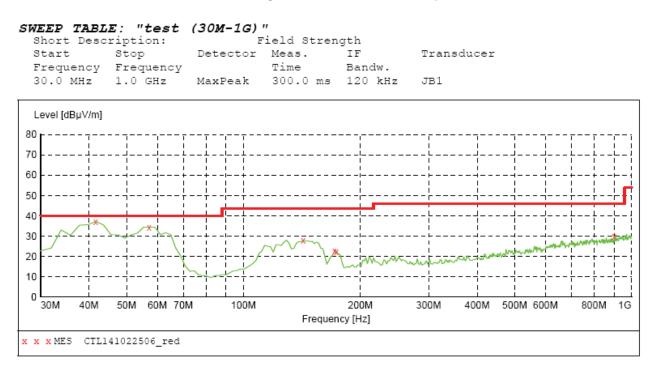
Remark:

(1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.

Sind

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- (2) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.



MEASUREMENT RESULT: "CTL141022506_red"

10/22/2014 2: Frequency MHz	:11PM Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
41.640000	37.10	12.5	40.0	2.9		0.0	0.00	VERTICAL
57.160000	34.40	8.3	40.0	5.6		0.0	0.00	VERTICAL
142.520000	28.00	14.5	43.5	15.5		0.0	0.00	VERTICAL
171.620000	22.50	13.4	43.5	21.0		0.0	0.00	VERTICAL
173.560000	22.40	13.3	43.5	21.1		0.0	0.00	VERTICAL
903.000000	29.70	26.1	46.0	16.3		0.0	0.00	VERTICAL
Remark	D		JE C			0	5/	

Remark:

- Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz (1) was verified, and no any emission was found except system noise floor.
- * denotes emission frequency which appearing within the Restricted Bands specified in (2) provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3)The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

Freq.	Ant.Pol.	DetectorMode	Reading	Ant./CL/	Actual FS	Limit3m
(MHz)	H/V	(PK/AV)	(dBuV)	Amp. CF(dB)	(dBuV/m)	(dBuV/m)
2480	V	Peak	75.45	-3.30	72.15	113.98
2480	Н	Peak	70.04	-3.30	66.74	113.98
4960	V	Peak	47.19	3.90	51.09	74.00
4960	Н	Peak	43.41	3.90	47.31	74.00
7440	V					
7440	Н					
Others						
Freq.	Ant.Pol.	DetectorMode	Reading	Ant./CL/	Actual FS	Limit3m
(MHz)	H/V	(PK/AV)	(dBuV)	Amp. CF(dB)	(dBuV/m)	(dBuV/m)
2440	V	Peak	75.47	-3.40	72.07	113.98
2440	Н	Peak	69.56	-3.40	66.16	113.98
4880	V	Peak	47.58	3.70	51.28	74.00
4880	Н	Peak	43.32	3.70	47.02	74.00
7320	V					
7320	Н					
Others						
Freq.	Ant.Pol.	DetectorMode	Reading	Ant./CL/	Actual FS	Limit3m
(MHz)	H/V	(PK/AV)	(dBuV)	Amp. CF(dB)	(dBuV/m)	(dBuV/m)
2402	V	Peak	75.28	-3.30	71.98	113.98
2402	Н	Peak	70.13	-3.30	66.83	113.98
4804	V	Peak	48.49	3.50	51.99	74.00
4804	Н	Peak	43.45	3.50	46.95	74.00
7206	V					
7206	Н					
Others						
emark:	12					
man.						

Above 1 GHz Test Results:

Ren

(1) Measuring frequencies from 1 GHz to the 25 GHz.

"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge (2) frequency.

* denotes emission frequency which appearing within the Restricted Bands specified in (3) provision of 15.205, then the general radiated emission limits in 15.209 apply.

(4) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz (5) for measuring above 1 GHz, below 30MHz was 10KHz.

When the test results of Peak Detected below the limits of Average Detected, the (6) Average Detected is not need completed. For example: Top Channel at Fundamental 72.15dBuV/m(PK Value) <93.98(AV Limit), at harmonic 51.99 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

4.3. Band Edge Measurement

TEST CONFIGURATION

Same as Section 4.2

TEST PROCEDURE

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.4 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 1 MHz and VBM to 3MHz to measure the peak field strength

<u>LIMIT</u>

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

TEST RESULTS

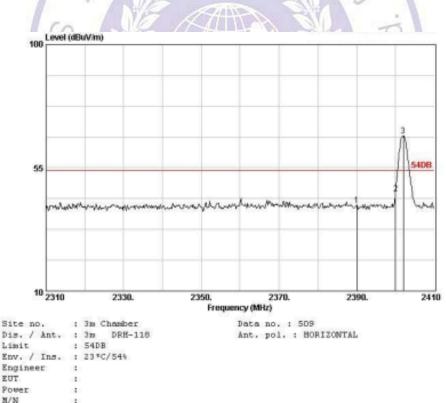
Radiated Test:

Operation Mode: TX on Bot Channel

Test Mode

1

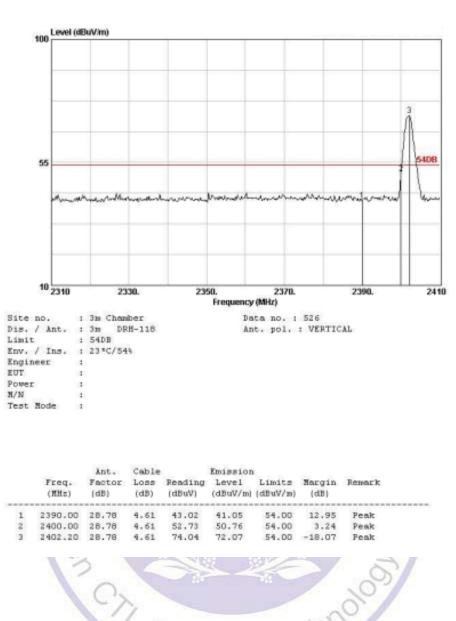
Polarity: Hor.



		Ant.	Cable		Emission			
	Freq. (MHz)				Level (dBuV/m)		-	Remark
1	2390.00	28.78	4.61	43.25	41.28	54.00	12.72	Peak
2	2400.00	28.78	4.61	47.65	45.68	54.00	8.32	Peak
з	2402.00	28.78	4.61	68.58	66.61	54.00	-12.61	Peak

Operation Mode: TX on Bot Channel

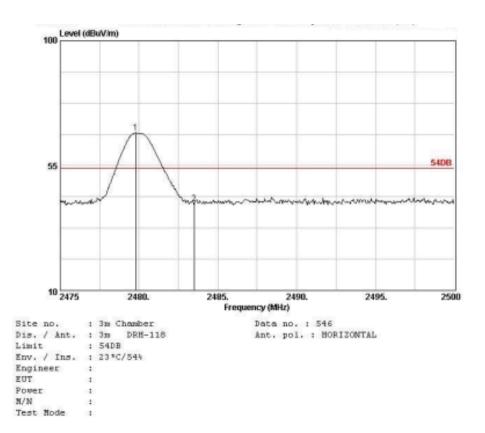
Polarity: Ver.



- Note:
- 1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209.
- 2. The average measurement was not performed when the peak measured data under the limit of average detection.

Operation Mode: TX on Top Channel

Polarity: Hor.



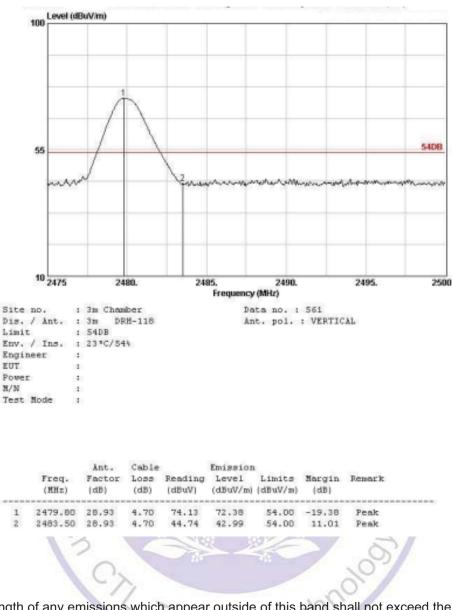
		Ant.	Cable		Emission			
	Freq. (MHz)	Factor (dB)			Level (dBuV/m)			Remark
1	2479.80					54.00	-12.91	Peak
2	2483.50	28.93	4.70	43.13	41.38	54.00	12.62	Peak



Note:

Operation Mode: TX on Top Channel

Polarity: Ver.



- 1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209.
- 2. The average measurement was not performed when the peak measured data under the limit of average detection.

4.4. Occupied Bandwidth Measurement

Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation.
- 3. Based on FCC Part15 C Section 15.239(a): RBW= 10KHz. VBW= 30 KHz, Span=3MHz.
- 4. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

Test SET-UP (Block Diagram of Configuration)

Same as 4.2 Radiated Emission Measurement.

Measurement Equipment Used:

Same as 4.2 Radiated Emission Measurement.

Measurement Results

🔆 Agilent			RT	Mea	as Setup
Ch Freq Occupied Bandwidth	2.402 GHz		Trig Free	A۱ On	/g Number 10 <u>Off</u>
Ref 0 dBm	Atten 10 dB			Ехр	Avg Mode <u>Repeat</u>
#Peak Log 10	\$			<u>On</u>	Max Hold <u>Off</u>
dB/			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Occ	BW % Pw 99.00 %
Center 2.402 GHz #Res BW 10 kHz	#VBW 30 ki	Hz Sweep 31.08 r	Span 3 MHz ns (401 pts)	3.000	OBW Spa 00000 MHz
Occupied Ba		Occ BW % Pwr x dB	99.00 % -20.00 dB		x dB -20.00 dB
Transmit Freq Error x dB Bandwidth	6.913 kHz 1.077 MHz				Optimize Ref Level

2402MHz

20dB Bandwidth: 1077.00KHz

2440MHz

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🔆 Agilent			RT	. Me	as Setup
Ch Freq Occupied Bandwidth	2.44 GHz		Trig Free	A On	vg Number 10 <u>Off</u>
Ref 0 dBm	Atten 10 dB			<u>Exp</u>	Avg Mode <u>Repeat</u>
#Peak Log 10	• • • • • • • • • • • • • • • • • • •	~~~~ ~		<u>On</u>	Max Hold <u>Off</u>
dB/				Oc	c BVV % Pwr 99.00 %
Center 2.44 GHz #Res BW 10 kHz	#VBW 30 kHz	Sweep 31.08 m	Span 3 MHz is (401 pts)	3.000	OBW Spar 000000 MHz
Occupied Ba	ndwidth 1.0239 MHz	Occ BW % Pwr x dB	99.00 % -20.00 dB		x dB -20.00 dB
Transmit Freq Error	-347.442 Hz 1.085 MHz				Optimize Ref Level
x dB Bandwidth idth: 1085.00KHz			-7E)	- \	
	4 NE	80MHz	R T	. Me	as Setup
idth: 1085.00KHz	24 2.48 GHz	80MHz	R T Trig Free		as Setup vg Number 10 <u>Off</u>
idth: 1085.00KHz	24 2.48 GHz	80MHz		A	vg Number 10
idth: 1085.00KHz	2.48 GHz Atten 10 dB	80MHz		A On	vg Number 10 <u>Off</u> Avg Mode
idth: 1085.00KHz	24 2.48 GHz	80MHz	Trig Free	On Exp On	vg Number 10 <u>Off</u> Avg Mode <u>Repeat</u> Max Hold
idth: 1085.00KHz Agilent Ch Freq Occupied Bandwidth Ref 0 dBm #Peak Log 10 dB/	24 2.48 GHz Atten 10 dB		Trig Free	On Exp On Oc	vg Number 10 Off Avg Mode <u>Repeat</u> Max Hold <u>Off</u> c BW % Pwr
idth: 1085.00KHz Agilent Ch Freq Occupied Bandwidth Ref 0 dBm #Peak Log 10 dB/ Center 2.48 GHz #Res BW 10 kHz Occupied Ba	24 2.48 GHz Atten 10 dB		Trig Free	On Exp On Oc	vg Number 10 <u>Off</u> Avg Mode <u>Repeat</u> Max Hold <u>Off</u> c BW % Pwr 99.00 %

20dB Bandwidth: 1074.00KHz

5. <u>Antenna Requirement</u>

Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is an internal Antenna, The directional gains of antenna used for transmitting is 0.5 dBi.

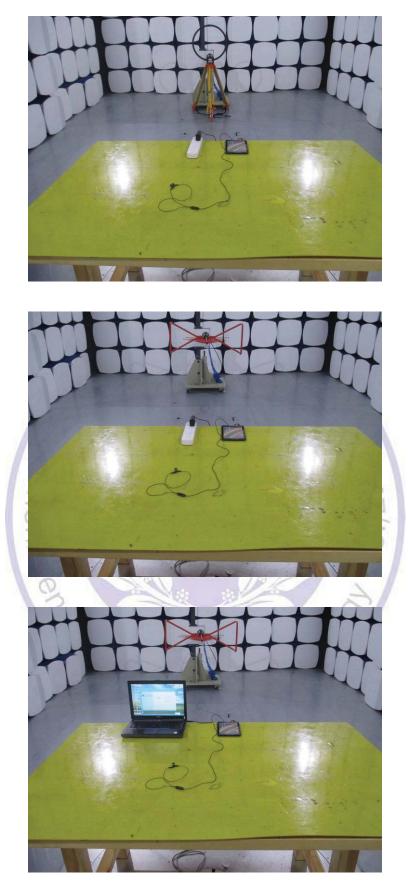


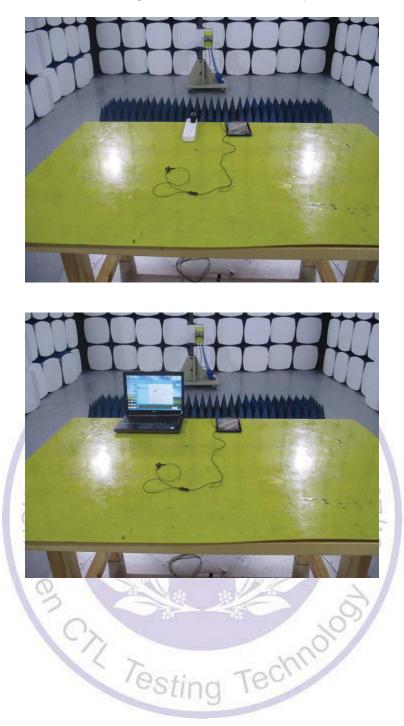
6. <u>Test Setup Photos of the EUT</u>











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7. External and Internal Photos of the EUT

External Photos of EUT

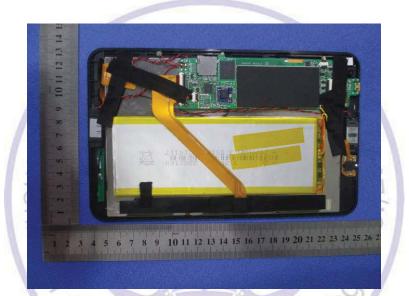




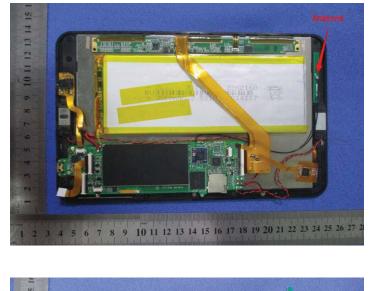


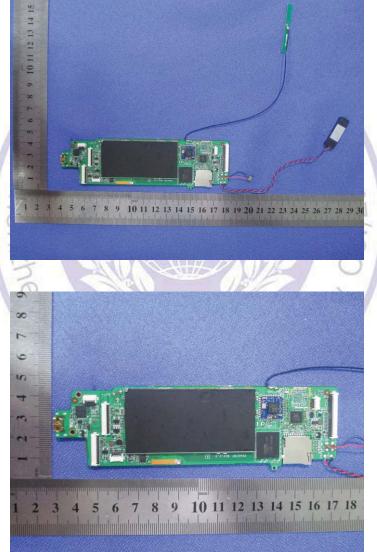
Internal Photos of EUT

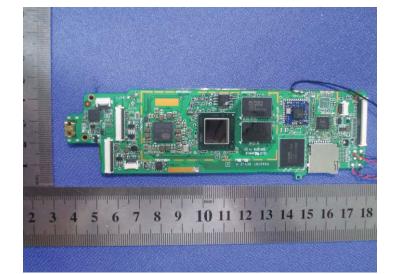




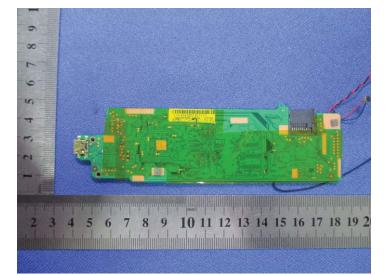


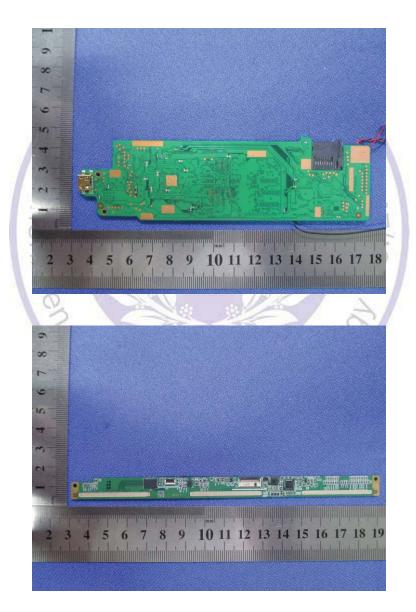


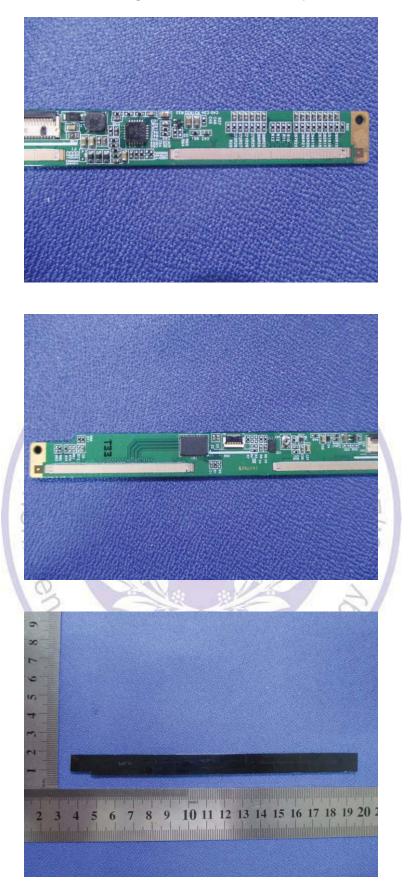


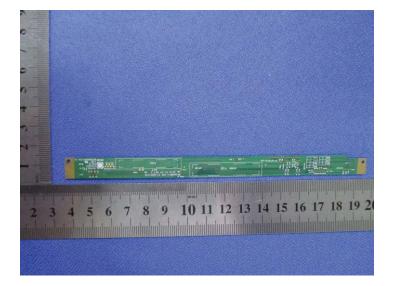












.....End of Report.....

