

FCC 47 CFR PART 15 SUBPART C TEST REPORT

For

Applicant: Win Accord Ltd.

12F., No. 225, Sec. 5, Nanjing E. Rd., Songshan Dist, Taipei City

105, Taiwan

Product Name: Mobile internet device

Model Name: PT07101-46-XXX (X=a-z,0-9,A-Z), PTT-726A, ETOOS 700C, R73A

Brand Name: N/A

FCC ID: ZIG-PTT726A

Report No.: MOST111007E2

Date of Issue: December. 05, 2011

Issued by: Most Technology Service Co., Ltd.

Address: No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,

Nanshan, Shenzhen, Guangdong, China

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1. VERIFICATION OF CONFORMITY

Equipment Under Test: Mobile internet device

Brand Name: N/A

Model Number: PT07101-46-XXX(X=a-z,0-9,A-Z)

Series Model Number: PTT-726A, ETOOS 700C, R73A

Difference description: The series models are different in model name with the same functions.

FCC ID: ZIG-PTT726A

Applicant: Win Accord Ltd.

12F., No. 225, Sec. 5, Nanjing E. Rd., Songshan Dist, Taipei City 105,

Taiwan

Manufacturer: Win Accord Ltd.

7F., Garden City Cyber Port, Nanhai Road A, No. 1079, Nanshan Dist.,

Shenzhen, China

Technical Standards: 47 CFR Part 15 Subpart C

File Number: MOST111007E2

Date of test: November. 10, ~ November. 29, 2011

Deviation:NoneCondition of Test Sample:NormalTest Result:PASS

The above equipment was tested by MOST for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature):

Zhang Ling

July Wen

Terry Yang

Decemb er. 05, 2011

Review by (+ signature):

Decemb er. 05, 2011

Approved by (+ signature):

Decemb er. 05, 2011

2. GENERAL INFORMATION

2.1 Product Information

Product	Mobile internet device
Trade Name	N/A
Model Number	PT07101-46-XXX(X=a-z,0-9,A-Z)
Series Number:	PTT-726A, ETOOS 700C, R73A
Description Differences:	The series models are different in model name with the same functions.
Power Supply	DC 5V by AC/DC adapter 100~240V 50/60Hz DC 3.7V by battery
Frequency Range	2402MHz -2480MHz
Modulation Type	FHSS
Antenna Type:	Internal Fixed
Channel Spacing:	1MHz
Channel Number	79(CH Low: 2402MHz, CH Mid: 2441MHz, CH High: 2480MHz)
Temperature Range	-20°C ~ 50°C

NOTE:

1. Please refer to Appendix I for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual.

2.2 OBJECTIVE

The objective of the report is to perform tests according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15 (10-1-05 Edition)	Radio Frequency Devices

2.3 TEST STANDARDS AND RESULTS

Test items and the results are as bellow:

No.	Section	Description	Result	Date of Test
1	15.249(a)	Spurious Emission	PASS	November. 18, 2011
2	15.249(a)	Band Edge	PASS	November. 29, 2011
3	15.207	Power Line Conducted Emission Test	PASS	November. 20, 2011

Note: 1. The test result judgment is decided by the limit of measurement standard

2. The information of measurement uncertainty is available upon the customer's request.

2.4 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C - Humidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

3. TEST FACILITY 3.1TEST FACILITY

Test Site: Most Technology Service Co., Itd

Location: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen,

Guangdong, China

Description: There is one 3m semi-anechoic an area test sites and two line conducted labs for final

test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009 and CISPR

16 requirements.

The FCC Registration Number is 490827.

The IC Registration Number is 46405-7103.

The CNAS Registration Number is CNAS L3573.

Site Filing: The site description is on file with the Federal Communications

Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Instrument Tolerance: All measuring equipment is in accord with ANSI C63.4:2009 and CISPR 16

requirements that meet industry regulatory agency and accreditation agency

requirement.

Ground Plane: Two conductive reference ground planes were used during the Line Conducted

Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire

area between the EUT and the antenna.

3.2 GENERAL TEST PROCEDURES

EUT Function and Test Mode

The EUT has been tested under normal operating (TX) and standby (RX) condition.

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.

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4:2009, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4:2009.

3.3 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110 10.495 - 0.505 2.1735 - 2.1905 4.125 - 4.128 4.17725 - 4.17775 4.20725 - 4.20775 6.215 - 6.218 6.26775 - 6.26825 6.31175 - 6.31225 8.291 - 8.294 8.362 - 8.366 8.37625 - 8.38675 8.41425 - 8.41475	16.42 - 16.423 16.69475 - 16.69525 16.80425 - 16.80475 25.5 - 25.67 37.5 - 38.25 73 - 74.6 74.8 - 75.2 108 - 121.94 123 - 138 149.9 - 150.05 156.52475 - 156.52525 156.7 - 156.9 162.0125 - 167.17	399.9 - 410 608 - 614 960 - 1240 1300 - 1427 1435 - 1626.5 1645.5 - 1646.5 1660 - 1710 1718.8 - 1722.2 2200 - 2300 2310 - 2390 2483.5 - 2500 2655 - 2900 3260 - 3267	4.5 - 5.15 5.35 - 5.46 7.25 - 7.75 8.025 - 8.5 9.0 - 9.2 9.3 - 9.5 10.6 - 12.7 13.25 - 13.4 14.47 - 14.5 15.35 - 16.2 17.7 - 21.4 22.01 - 23.12 23.6 - 24.0
12.29 - 12.293 12.51975 - 12.52025 12.57675 - 12.57725 13.36 - 13.41	167.72 - 173.2 240 - 285 322 - 335.4	3332 - 3339 3345.8 - 3358 3600 - 4400	31.2 - 31.8 36.43 - 36.5 (²)

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission 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.

² Above 38.6

4. SETUP OF EQUIPMENT UNDER TEST

4.1 SUPPORT EQUIPMENT

Device Type	Brand	Model	Series No.	Data Cable	Power Cord
N/A	N/A	N/A	N/A	N/A	N/A

Remark:

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

FCC ID: ZIG-PTT726A

4.2 TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at Most for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	mentation from 10 kHz to 1 Equipment	Manufacturer	Model No.	S/N	Calculator due date		
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2012/03/14		
2	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2012/03/14		
3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2012/03/14		
4	Terminator	Hubersuhner	50Ω	No.1	2012/03/14		
5	RF Cable	SchwarzBeck	N/A	No.1	2012/03/14		
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2012/03/14		
7	Bilog Antenna	SCHWARZBECK	BBHA9120D	D69250	2012/03/14		
8	Cable	Resenberger	N/A	NO.1	2012/03/14		
9	Cable	SchwarzBeck	N/A	NO.2	2012/03/14		
10	Cable	SchwarzBeck	N/A	NO.3	2012/03/14		
11	DC Power Filter	DuoJi	DL2×30B	N/A	2012/03/14		
12	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2012/03/14		
13	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2012/03/14		
14	Test Receiver	Rohde & Schwarz	ESCI	ESCI 100492			
15	Absorbing Clamp	Luthi	MDS21	3635	2012/03/14		
16	6 Coaxial Switch Anritsu Corp		MP59B	MP59B 6200283933			
17	AC Power Source	Kikusui	AC40MA	LM003232	2012/03/14		
18	Test Analyzer	Kikusui	KHA1000	LM003720	2012/03/14		
19	Line Impendence Network	Kikusui	LIN40MA- PCR-L	LM002352	2012/03/14		
20	ESD Tester	Kikusui	KES4021	LM003537	2012/03/14		
21	EMCPRO System	EM Test	UCS-500-M4	V0648102026	2012/03/14		
22	Signal Generator	IFR	2032	203002/100	2012/03/14		
23	Amplifier	A&R	150W1000	301584	2012/03/14		
24	CDN	FCC	FCC-801-M2-25	47	2012/03/14		
25	CDN	FCC	FCC-801-M3-25	107	2012/03/14		
26	EM Injection Clamp	FCC	F-203I-23mm	403	2012/03/14		
27	RF Cable	MIYAZAKI	N/A	No.1/No.2	2012/03/14		
28	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2012/03/14		
29	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2012/03/14		
30	Telecommunication Test Equipment	R&S	CMU200	N/A	2012/03/14		
31	Loop Antenna	SCHWARZBECK	BBHA9120D	D69250	2012/03/14		

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR Part 15C 15.249 Requirements 5.1 SPURIOUS EMISSION TEST 5.1.1 REQUIREMENT

According to FCC section 15.249(a):

Except as provided in paragraph (a) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (μV/m)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

According to FCC section 15.209 (a) , except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

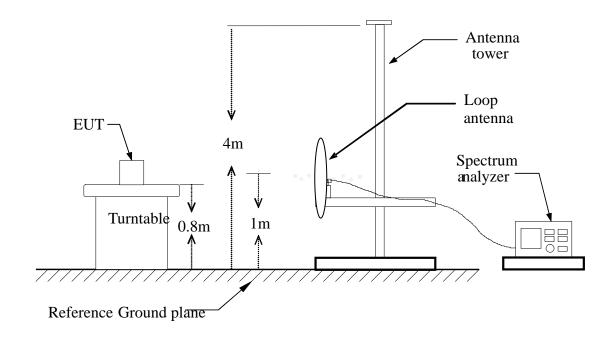
Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

In the above emission table, the tighter limit applies at the band edges.

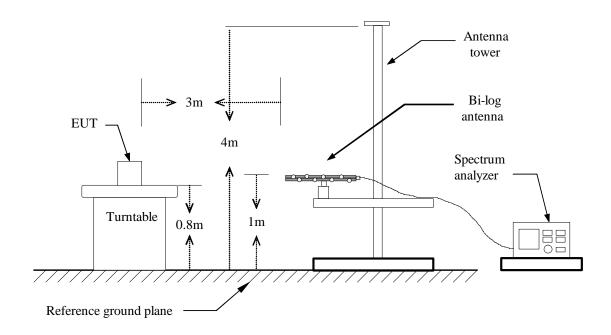
Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

5.1.2 TEST DESCRIPTION

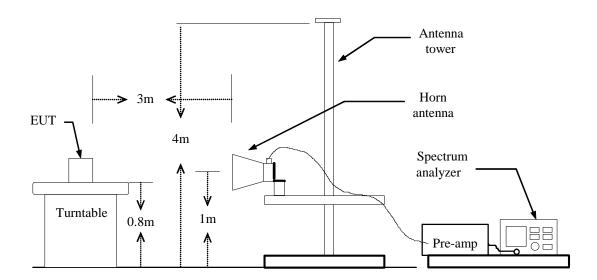
TEST SETUP:



Blow 1GHz:



Above 1GHz:



5.1.3 TEST DESCRIPTION

- 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. Set the spectrum analyzer in the following setting as:

Below 1GHz: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz:(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

5.1.4 TEST RESULT

Form 9 KHz to 30MHz:

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	al Fs	Peak Limit	AV Limit	AV Margin
		(dBuV)	(dBuV)	(dB)	Peak AV		(dBuV/m)	(dBuV/m)	(dB)
		,		, ,	(dBuV/m)	(dBuV/m)	,		
N/A	Н								>20
N/A	V								>20

Note: No test data was detected in below 30MHz.



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement File :PT07101-46-XXX Data :#26 Data: 2011-11-12 Time: 17:28:00 70.0 dBuV/n 60 10 10

Site site MOST 3M

30,000

Polarization: Vertical

612.00

515.00

Temperature: 26

1000.00 MHz

Limit: FCC Part15 B 3M Radiation EUT: Mobile internet device

127.00

224.00

321.00

Power: AC 120V/60Hz

709.00

Distance:

806.00

Humidity: 61 %

M/N: PT07101-48-XXX Mode: BLUETOOTH

Note: HJ-050200

No.	М	lk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	×		34.8500	13.98	21.06	35.04	40.00	-4.96	peak			
2		1	74.5300	18.61	16.97	35.58	43.50	-7.92	peak			
3		5.	24.7000	10.30	22.04	32.34	46.00	-13.66	peak			
4		7	73.0200	5.04	25.99	31.03	46.00	-14.97	peak			
5		8	92.3300	5.54	27.32	32.86	46.00	-13.14	peak			

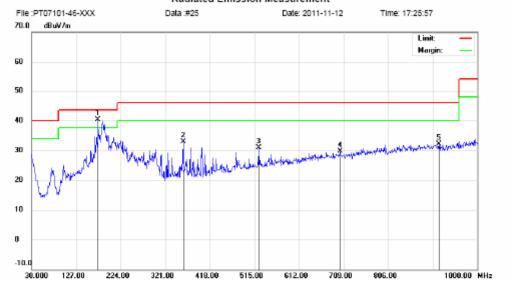
418.00



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement



Site site MOST 3M Limit: FCC Part15 B 3M Radiation

EUT: Mobile internet device

M/N: PT07101-46-XXX Mode: BLUETOOTH Note: HJ-050200

Polarization: Horizontal Power: AC 120V/60Hz

Distance:

Temperature: 26

Humidity: 61 %

No.	Mi	c. F	req.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		N	MHZ	dBuV	dΒ	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	×	174.5	5300	23.24	16.97	40.21	43.50	-3.29	peak			
2		359.8	3000	14.65	18.30	32.95	46.00	-13.05	peak			
3		524.7	7000	8.84	22.04	30.88	46.00	-15.12	peak			
4		701.2	2400	5.04	24.69	29.73	46.00	-16.27	peak			
5		916.5	5800	4.43	27.70	32.13	46.00	-13.87	peak			

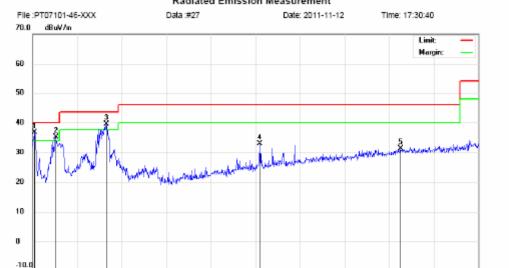


Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park

Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement



515.00

Site site MOST 3M Limit: FCC Part15 B 3M Radiation

127.00

224.00

321.00

418.00

EUT: Mobile internet device

M/N: PT07101-46-XXX Mode: BLUETOOTH Note: GP302E-050-200

30,000

709.00 Temperature: 26 Polarization: Vertical Power: AC 120V/60Hz Humidity: 61 %

806.00

1000.00 MHz

Distance:

612.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dΒ	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	×	34.8500	15.55	21.06	36.61	40.00	-3.39	peak			
2	į	80.4400	23.79	11.39	35.18	40.00	-4.82	peak			
3	į	191.0200	22.76	16.65	39.41	43.50	-4.09	peak			
4		524.7000	10.92	22.04	32.96	46.00	-13.04	peak			
5		831.2199	4.25	27.02	31.27	46.00	-14.73	peak			



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement File: PT07101-46-XXX Data: #28 Date: 2011-11-12 Time: 17:32:46 70.0 dBuV/n 60 50 10 10

515.00

Site site MOST 3M

127.00

224.00

321.00

418.00

Limit: FCC Part15 B 3M Radiation EUT: Mobile internet device

M/N: PT07101-46-XXX

M/N: PT07101-46-XXX Mode: BLUETOOTH Note: GP302E-050-200

30.000

Polarization: Horizontal	Temperature:	26
Power: AC 120V/60Hz	Humidity:	61 %

806.00

1000.00 MHz

709.00

Distance:

612.00

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height		
		MHz	dBuV	dΒ	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		74.6200	16.92	11.65	28.57	40.00	-11.43	peak			
2	×	190.0500	23.54	16.60	40.14	43.50	-3.36	peak			
3		375.3200	15.29	18.24	33.53	46.00	-12.47	peak			
4		551.8600	7.05	22.57	29.62	46.00	-16.38	peak			
5		853.5300	4.66	27.13	31.79	46.00	-14.21	peak			

^{*:}Maximum data x:Over limit !:over margin

Above 1 GHz

Operation Mode: CH Low Test Date: November. 12, 2011

Temperature: 20°C **Tested by:** Habby Guo

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	al Fs	Peak Limit	AV Limit	AV Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
2402.00	Н	95.03	64.82	9.08	104.11	73.90	114.00	94.00	-20.10
1612.50	Н	56.83	31.09	6.02	62.85	37.11	74.00	54.00	-16.89
4815.00	Н	51.71	26.44	17.05	68.76	43.49	74.00	54.00	-10.51
N/A									>20
2402.00	V	96.09	68.35	9.08	105.17	77.43	114.00	94.00	-16.57
1612.50	٧	56.60	27.06	6.02	62.62	33.08	74.00	54.00	-20.92
4815.00	٧	51.35	25.93	17.05	68.40	42.98	74.00	54.00	-11.02
N/A									>20

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = auto.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = auto

Operation Mode: CH Mid Test Date: November. 12, 2011

Temperature: 20°C **Tested by:** Habby Guo

Humidity: 70 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	Actual Fs		AV Limit	AV Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
2441.00	Н	94.31	68.32	9.08	103.39	77.40	114.00	94.00	-16.60
1630.00	Н	54.07	29.83	6.02	60.09	35.85	74.00	54.00	-18.15
4885.00	Н	51.65	28.64	17.05	68.70	45.69	74.00	54.00	-8.31
N/A									>20
2441.00	V	93.98	67.56	9.08	103.06	76.64	114.00	94.00	-17.36
1630.00	V	55.92	29.01	6.02	61.94	35.03	74.00	54.00	-18.97
4885.00	٧	52.37	27.93	17.05	69.42	44.98	74.00	54.00	-9.02
N/A									>20

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = auto.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = auto.

Operation Mode: CH High Test Date: November. 12, 2011

Temperature:20°CTested by:Habby GuoHumidity:70 % RHPolarity:Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	Actual Fs		AV Limit	AV Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
2480.00	Н	92.08	66.65	9.08	101.16	75.73	114.00	94.00	-18.27
1647.50	Н	54.61	30.02	6.02	60.63	36.04	74.00	54.00	-17.96
4955.00	Н	49.96	27.08	17.05	67.01	44.13	74.00	54.00	-9.87
N/A									>20
2480.00	V	92.76	65.94	9.08	101.84	75.02	114.00	94.00	-18.98
1647.50	V	54.83	29.57	6.02	60.85	35.59	74.00	54.00	-18.41
4955.00	٧	48.84	27.28	17.05	65.89	44.33	74.00	54.00	-9.67
N/A									>20

Notes:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 1MHz, Sweep time = auto.
 - b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = auto.

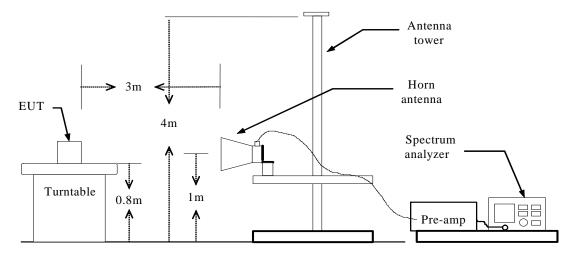
FCC ID: ZIG-PTT726A

5.2 BAND EDGE

5.2.1 REQUIREMENT

According to FCC section 15.249 (a), in any 1 00kHz bandwidth outside the frequency band in which the spread spectrum or digit ally modulated intentional radiator is operating, the radio fre quency power that is produced by the intentional radiator shall be at least 20dB below t hat in the 100kHz band width within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.2.2 TEST DESCRIPTION



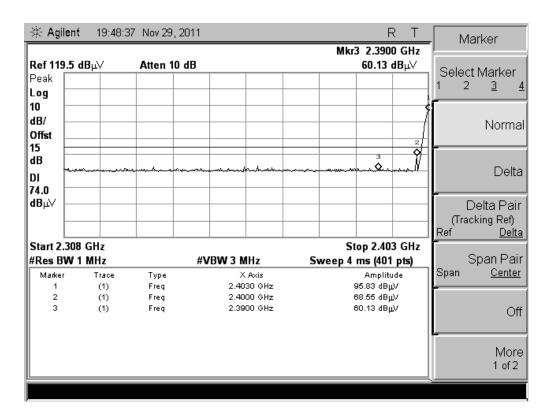
5.2.3TEST RESULT

The EUT operates at hopping-off test mode. The lowest and highest channels are tested to verify the band edge emissions.

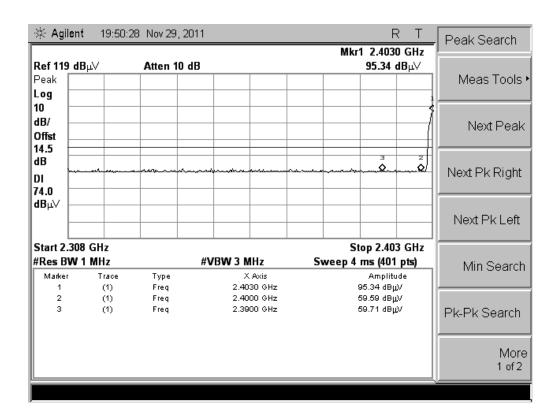
				Test Res	sult Highest I	Emission (dBuv/m)		
Test Mode		Channel Marked Frequency	Limit (dBuv/m)	Ver	tical	Horizontal		
		,		Peak	Average	Peak	Average	
	Low	2390MHz		59.71	42.08	60.13	39.15	
Bluetooth	Channel	2400MHz	74(Peak)	59.59	54.07	68.55	50.37	
Bluetooth	High	2483.5MHz	54(Average)	52.80	42.93	52.49	42.06	
	Channel	2500MHz		51.70	39.94	52.42	40.02	

FCC ID: ZIG-PTT726A

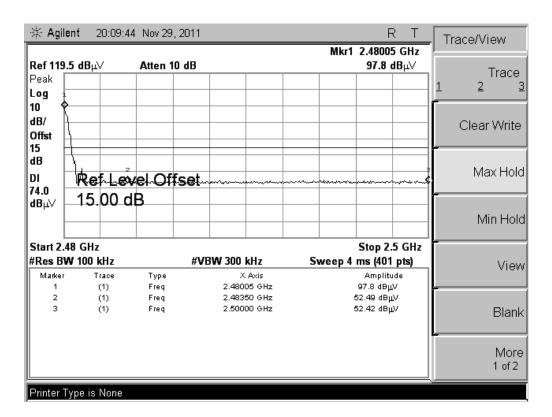
Test Plot:



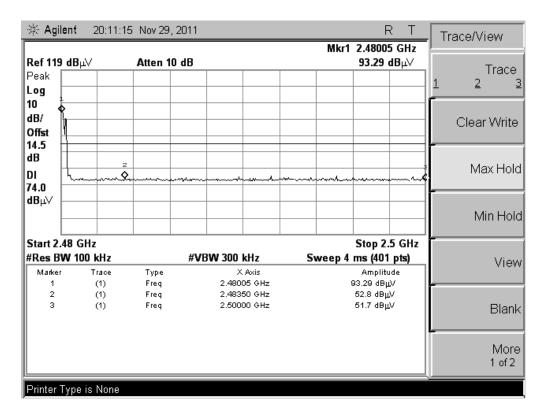
(CH Low, Horizontal)



(CH Low, Vertical)



(CH High, Horizontal)



(CH High, Vertical)

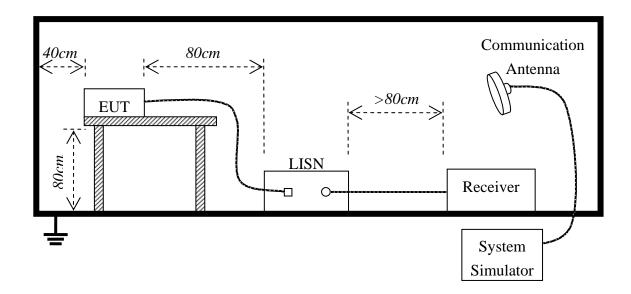
5.3 LINE CONDUCTED EMISSION TEST

5.3.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Fraguency	Maximum RF Line Voltage						
Frequency	Q.P.(dBuV)	Average(dBuV)					
150kHz-500kHz	66-56	56-46					
500kHz-5MHz	56	46					
5MHz-30MHz	60	50					

^{**}Note: 1. the lower limit shall apply at the transition frequency.

5.3.2. BLOCK DIAGRAM OF TEST SETUP



^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

5.3.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user 's manual. When 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 FCC Part 15 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per FCC Part 15.
- 3) All I/O cables were positioned to simulate typical actual usage as per FCC Part 15.
- 4) The EUT received DC 5V power by AC/DC adapter which through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5) All support equipments received power from a second LISN supplying power of AC 120V/60Hz, if any.
- 6) The EUT test program was started. Emissions were measured on each current car rying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN power ing 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 30 MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.

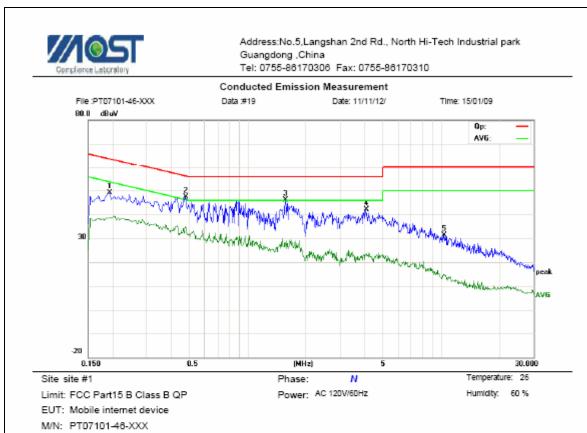
5.3.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

EUT and support equipment was set up on the test bench as per step 9 of the preliminary test.

A scan was taken on both power line s, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

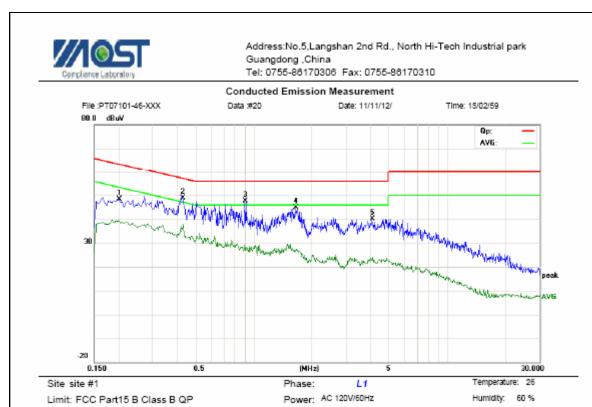
The test data of the worst case condition(s) was reported on the Summary Data page.

5.3.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST



Mode: bluetooth Note: HJ-050200

	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
-			MHz	dBuV	dΒ	dBu∨	dBuV	dB	Detector	Comment	
	1		0.1940	37.37	11.64	49.01	63.86	-14.85	peak		
-	2	*	0.4780	37.23	10.15	47.38	56.37	-8.99	peak		
	3		1.5620	36.65	9.44	46.09	56.00	-9.91	peak		
	4		4.0900	31.10	11.09	42.19	56.00	-13.81	peak		
	5		10.3020	22.26	9.00	31.26	60.00	-28.74	peak		



Limit: FCC Part15 B Class B QP EUT: Mobile internet device M/N: PT07101-46-XXX Mode: bluetooth Note: HJ-050200

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dΒ	dBuV	dBuV	dB	Detector	Comment
1	0.2020	36.38	11.99	48.37	63.53	-15.16	peak	
2 ×	0.4300	38.53	10.47	49.00	57.25	-8.25	peak	
3	0.9020	37.65	10.00	47.65	56.00	-8.35	peak	
4	1.6420	35.58	9.36	44.94	56.00	-11.06	peak	
5	4.0780	29.14	11.08	40.22	56.00	-15.78	peak	

30.000



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China

Tel: 0755-86170306 Fax: 0755-86170310

 Site site #1
 Phase:
 L1
 Temperature:
 26

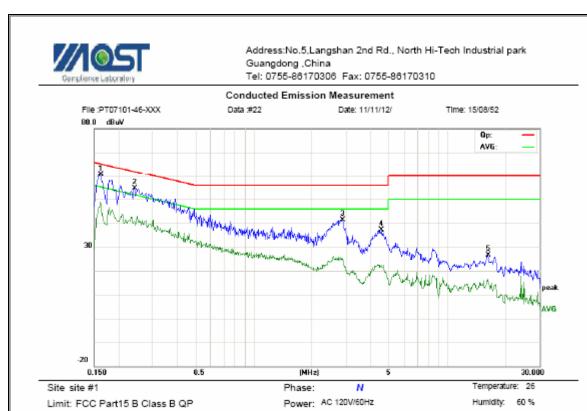
 Limit: FCC Part15 B Class B QP
 Power:
 AC 120V/60Hz
 Humldty:
 60 %

[MHz]

EUT: Mobile internet device M/N: PT07101-46-XXX Mode: bluetooth Note: GP302U-050-200

0.150

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dΒ	dBuV	dBuV	dB	Detector	Comment
1	×	0.1580	51.17	9.48	60.65	65.57	-4.92	peak	
2		0.2780	43.86	11.48	55.34	60.88	-5.54	peak	
3		2.7580	37.52	9.76	47.28	56.00	-8.72	peak	
4		4.5940	30.46	11.59	42.05	56.00	-13.95	peak	
5		11.1980	21.07	9.00	30.07	60.00	-29.93	peak	



Limit: FCC Part15 B Class B QP EUT: Mobile internet device M/N: PT07101-46-XXX Mode: bluetooth Note: GP302U-050-200

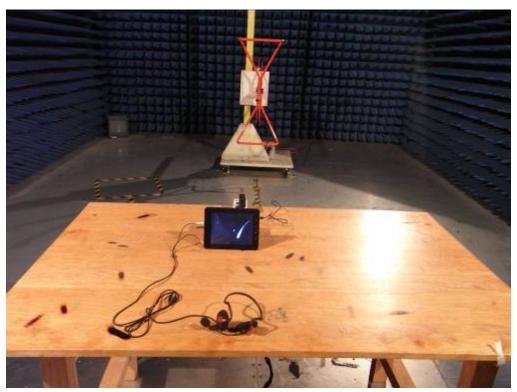
No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dΒ	dBuV	dBuV	dB	Detector	Comment
1	*	0.1620	50.91	9.72	60.63	65.36	-4.73	peak	
2		0.2420	42.98	11.72	54.70	62.03	-7.33	peak	
3		2.8700	31.57	9.87	41.44	56.00	-14.56	peak	
4		4.5500	25.68	11.55	37.23	56.00	-18.77	peak	
5		16.1540	17.63	9.00	26.63	60.00	-33.37	peak	

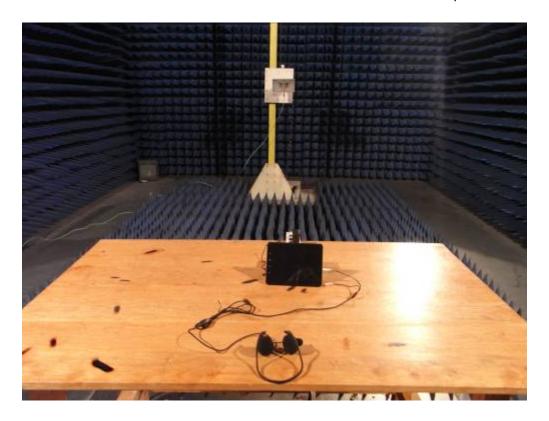
APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

CE TEST SETUP



RE TEST SETUP





APPENDIX 2 PHOTOGRAPHS OF EUT

FRONT VIEW OF SAMPLE



BACK VIEW OF SAMPLE



LEFT VIEW OF SAMPLE



RIGHT VIEW OF SAMPLE



UP VIEW OF SAMPLE



DOWN VIEW OF SAMPLE



PHOTO OF POWER SUPPLY





PHOTO OF BATTERY



PHOTO OF USB LINE



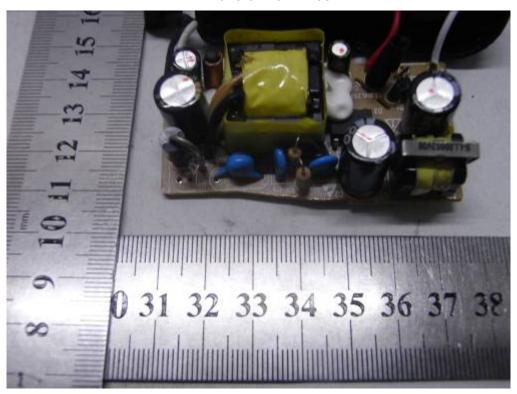
PHOTO OF HDMI LINE

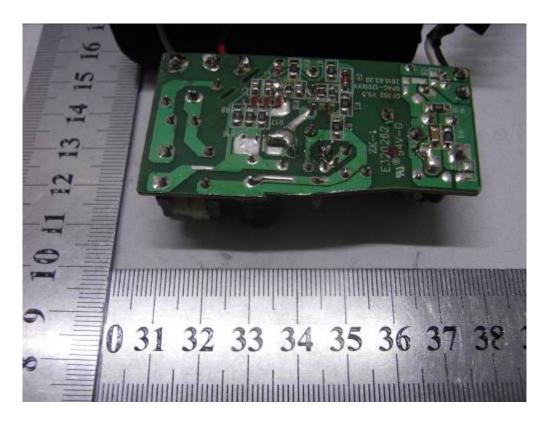


PHOTO OF THE ENTIRE SAMPLE

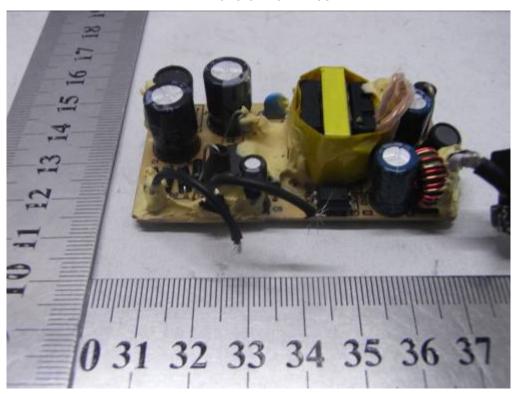


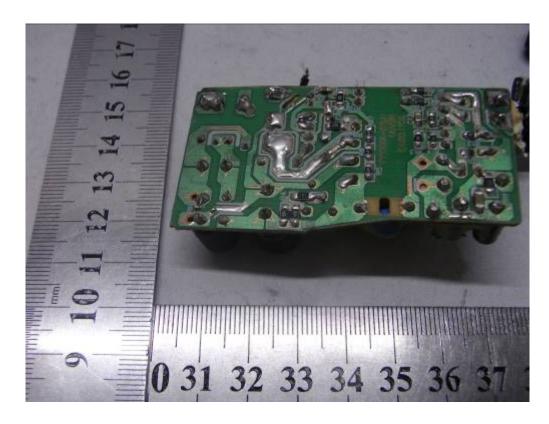
INTERNAL PHOTO OF POWER SUPPLY - 1





INTERNAL PHOTO OF POWER SUPPLY - 2

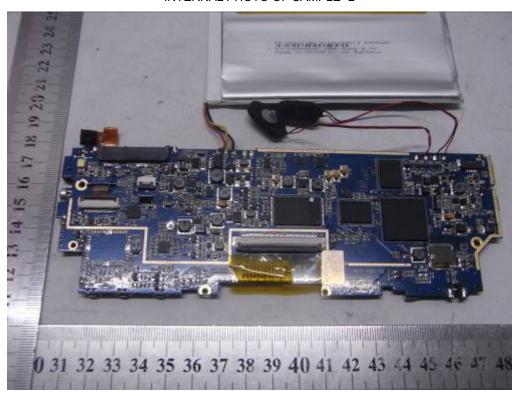




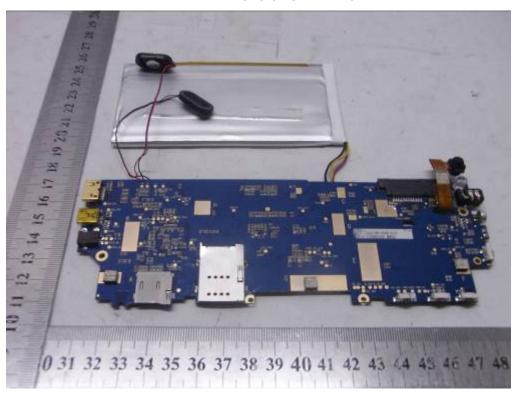
INTERNAL PHOTO OF SAMPLE - 1



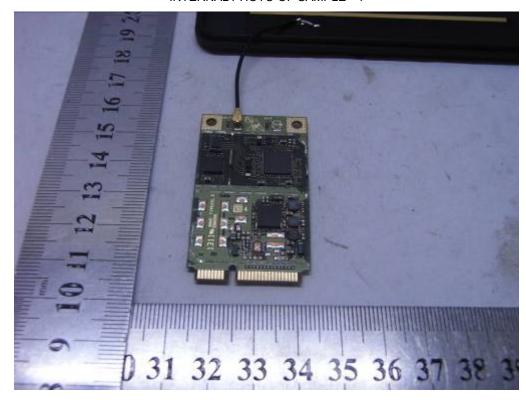
INTERNAL PHOTO OF SAMPLE -2



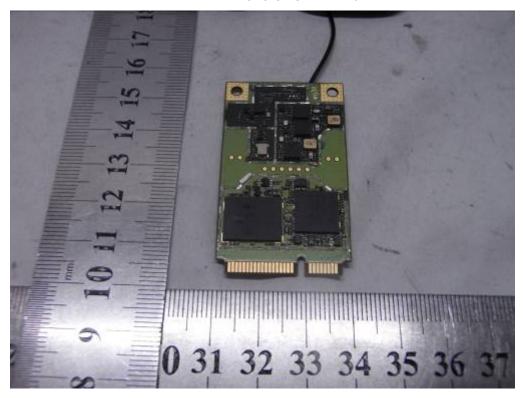
INTERNAL PHOTO OF SAMPLE - 3



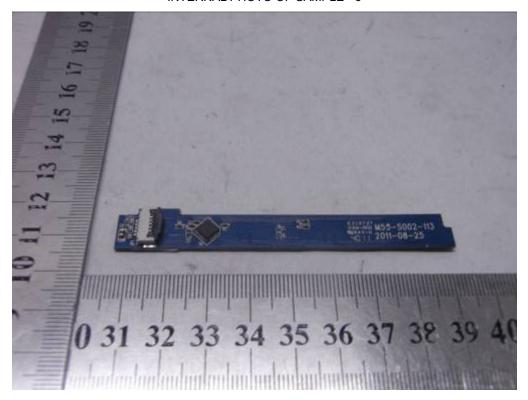
INTERNAL PHOTO OF SAMPLE - 4



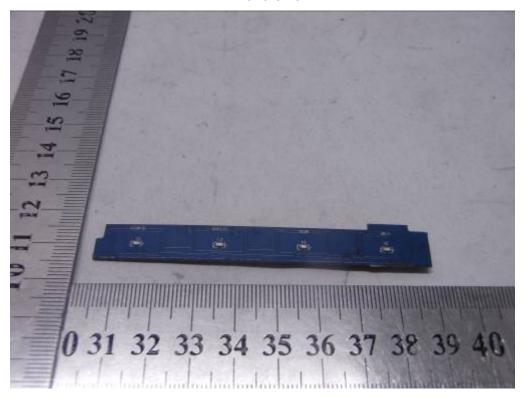
INTERNAL PHOTO OF SAMPLE - 5



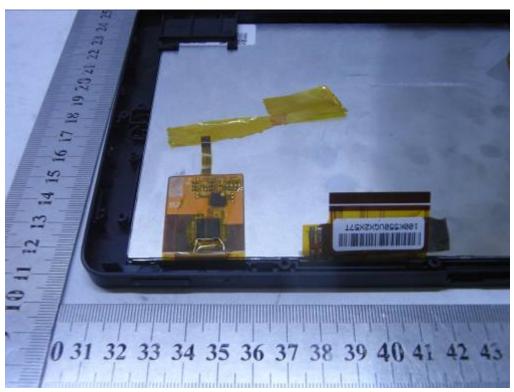
INTERNAL PHOTO OF SAMPLE - 6



INTERNAL PHOTO OF SAMPLE - 7



INTERNAL PHOTO OF SAMPLE -8



-----END OF REPORT-----