



Report No:FCC1507112-02
2015-07-29File reference No:2015-07-29Applicant:Shenzhen Jingwah Information Technology Co., Ltd.Product:Tablet PCModel No:M710R, EM756, P700Trademark:Polaroid, EmersonTest Standards:FCC Part 15.247

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15 Subpart C, Paragraph 15.247 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated:

July 29, 2015

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District, Shenzhen, Guangdong, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timewaytech.com



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meets with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The 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 No.:899988.

IC- Registration No.: IC5205A-02

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration No.: IC 5205A-02.

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1.0 General Details

1.1 Test Lab Details

Name :SHENZHEN TIMEWAY TESTING LABORATORIES.Address:Room 512-519,5/F., East Tower,Building 4, Anhua Industrial Zone, Futian District,Shenzhen,
Guangdong ChinaTelephone:(755) 83448688Fax:(755) 83442996Site on File with the Federal Communications Commission – United SatesRegistration Number:899988For 3m & 10 m OATSSite Listed with Industry Canada of Ottawa, CanadaRegistration Number:IC:5205A-02For 3m & 10 m OATS

1.2 Applicant Details

Applicant:	Shenzhen Jingwah Information Technology Co., Ltd.
Address:	4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District, Shenzhen, China
Telephone:	0755-83976295
Fax:	0755-83204874

1.3 Description of EUT

Product:	Tablet PC					
Manufacturer:	Shenzhen Jingwah Information Technology Co., Ltd.					
Address:	4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District,					
	Shenzhen, China					
Brand Name:	Polaroid, Emerson					
Model Number:	M710R					
Additional Model Number	er: EM756, P700					
Power Adapter	lel No.: JHD-AP012U-050150BB					
	Input: 100-240V, 50/60Hz, 0.35A; Output: DC5V, 1500mA					
Type of Modulation	GFSK, JI/4DQPSK, 8DPSK for Bluetooth					
Frequency range	2402-2480MHz for Bluetooth					
Channel Spacing	1MHz for Bluetooth					
Frequency Selection	Selection By software					
Channel Number 79 channel for Bluetooth						
Antenna:	Integral Antenna and the maximum Gain of this antenna is 1.0dBi;					

1.4 Submitted Sample: 2 Samples

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- 1.5 Test Duration 2015-07-20 to 2015-07-29
- 1.6 Test Uncertainty Conducted Emissions Uncertainty =3.6dB Radiated Emissions Uncertainty =4.7dB
- Test Engineer 1.7

Terry Tang

The sample tested by

Print Name: Terry Tang

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2.0 Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2014-08-21	2015-08-20
TWO	R&S	E7U2 75	100204	2014 08 22	2015 08 21
Line-V-NETW		EZHJ-ZJ	100294	2014-08-22	2013-08-21
TWO	R&S	F7H3_75	100253	2014-08-22	2015-08-21
Line-V-NETW		EZ113-23	100255	2014-00-22	2013-00-21
	R&S				
Ultra Broadband		HL562	100157	2014-08-23	2015-08-22
ANT					
	R&S	FSDV	100008	2014-08-22	2015-08-21
ESDV Test Receiver		ESDV	100008	2014-08-22	2013-08-21
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2014-08-21	2015-08-20
System Controller	СТ	SC100	-		
Printer	EPSON	PHOTO EX3	CFNH234850		
Computer	IBM	8434	1S8434KCE99BLXLO*	-	-
Loop Antenna	EMCO	6502	00042960	2014-08-22	2015-08-21
ESPI Test Receiver	R&S	ESI26	838786/013	2014-08-22	2015-08-21
3m OATS			N/A	2014-08-21	2015-08-20
Horn Antenna	R&S	BBHA 9170	BBHA9170265	2014-08-23	2015-08-22
Horn Antenna	R&S	BBHA 9120D	9120D-631	2014-08-23	2015-08-22
Power meter	Anritsu	ML2487A	6K00003613	2014-08-22	2015-08-21
Power sensor	Anritsu	MA2491A	32263	2014-08-22	2015-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2014-08-23	2015-08-22
LISN	AFJ	LS16C	10010947251	2014-08-21	2015-08-20
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2014-08-22	2015-08-21
9*6*6 Anechoic			N/A	2014-08-21	2015-08-20
EMI Test Receiver	RS	ESCS30	100139	2014-08-22	2015-08-21

2.1

Auxiliary Equipment

Name	Model No.	Rating	Manufacturer	FCC ID/DOC
Passive				
Earphone				

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3.0 **Technical Details**

3.1 Summary of test results

The EUT has been tested acc	ording to the following specif	ications:	
Requirement	CFR 47 Section	Result	Notes
Antenna Requirement	15.203, 15.247(b)(4)	PASS	Complies
Maximum Peak Out Power	15.247 (b)(1), (4)	PASS	Complies
Carrier Frequency Separation	15.247(a)(1)	PASS	Complies
20dB Channel Bandwidth	15.247 (a)(1)	PASS	Complies
Number of Hopping Channels	15.247(a)(iii), 15.247(b)(1)	PASS	Complies
Time of Occupancy (Dwell Time)	15.247(a)(iii)	PASS	Complies
Spurious Emission, Band Edge, and Restricted bands	15.247(d),15.205(a), 15.209 (a),15.109	PASS	Complies
Conducted Emissions	15.207(a), 15.107	PASS	Complies
RF Exposure	15.247(i), 1.1307(b)(1)	PASS	Complies

3.2 **Test Standards**

FCC Part 15 Subpart & Subpart C, Paragraph 15.247 and ANSI C63.10:2013 and ANSI C63.4:2014

4.0 **EUT Modification**

No modification by Shenzhen Timeway Technology Consulting Co., Ltd

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5. **Power Line Conducted Emission Test**

5.1 Schematics of the test



EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.10-2013. Test Voltage: 120V~60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

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A. EUT

Device	Manufacturer	Model	FCC ID
Tablet PC	Shenzhen Jingwah Information Technology Co., Ltd.	M710R, EM756, P700	RBD-M710R

B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer Model FCC ID/DOC		Cable	

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5	Power line conducted	Emission Limit	according to	Paragraph 1	15.107,15.207
				0 1	

Frequency	Class A Lim	its (dB µ V)	Class B Limits (dB µ V)		
(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
$0.15~\sim~0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*	
$0.50~\sim~5.00$	73.0	60.0	56.0	46.0	
$5.00 \sim 30.00$	73.0	60.0	60.0	50.0	

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

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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 A:
 Conducted Emission on Live Terminal (150kHz to 30MHz)

 EUT Operating Environment
 EUT operature: 26°C

 Temperature: 26°C
 Humidity: 65%RH
 Atmospheric Pressure: 101 KPa

 EUT set Condition: Keep Bluetooth Transmitting
 Equipment Level: Class B

 Results: PASS
 Please refer to following diagram for individual



No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.3394	32.10	11.20	43.30	59.22	-15.92	QP	
2	0.3394	13.20	11.20	24.40	49.22	-24.82	AVG	
3	0.4568	29.40	11.32	40.72	56.75	-16.03	QP	
4	0.4568	9.90	11.32	21.22	46.75	-25.53	AVG	
5	0.6520	26.70	11.53	38.23	56.00	-17.77	QP	
6	0.6520	10.00	11.53	21.53	46.00	-24.47	AVG	
7	1.2658	23.40	12.01	35.41	56.00	-20.59	QP	
8	1.2658	6.80	12.01	18.81	46.00	-27.19	AVG	
9	1.8488	23.90	12.24	36.14	56.00	-19.86	QP	
10	1.8488	5.30	12.24	17.54	46.00	-28.46	AVG	

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)
 EUT Operating Environment

 Temperature: 26°C
 Humidity: 65%RH
 Atmospheric Pressure: 101 KPa
 EUT set Condition: Keep Bluetooth Transmitting
 Equipment Level: Class B
 Results: Pass
 Please refer to following diagram for individual



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.3220	30.40	11.18	41.58	59.66	-18.08	QP	
2	0.3220	10.20	11.18	21.38	49.66	-28.28	AVG	

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6 Radiated Emission Test

6.1 Test Method and test Procedure:

- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.



Block diagram of Test setup

- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

										4		4 . 400		D.0.0.	
Free	nencies	in re	stricted	hand	are com	nlied te	n limit	on	Paragranh	15 209	and	15 109	and	RSS-2	10
IICY	ucherco		Surreu	Danu	are com	pncu u	0 mmi	UII I	i ai agi apii	13.207	anu	12.107	anu		10

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage $(dBuV) = 20 \log RF$ Voltage (uV)

2. In the Above Table, the higher limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side,

and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

5. All modulation have been tested ,GFSK was found as the worst case and only reported

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Test result General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/Vertical (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Pass

Results:

Frequency (MHz) Level@3m (dB μ V/m) Antenna Polarity Limit@3m (dB µ V/m) 415.800 37.15 Н 46.00 207.920 40.04 Η 43.50 Η 43.50 148.440 42.33 193.000 36.90 Η 43.50 89.120 34.42 V 43.50 208.040 35.39 V 43.50 193.040 34.86 V 43.50 V 396.040 41.45 46.00

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Test Figure:



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Test Figure:



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Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4804		Н	74(Peak)/ 54(AV)
4804		V	74(Peak)/ 54(AV)
7206		H/V	74(Peak)/ 54(AV)
9608		H/V	74(Peak)/ 54(AV)
12010		H/V	74(Peak)/ 54(AV)
14412		H/V	74(Peak)/ 54(AV)
16814		H/V	74(Peak)/ 54(AV)
19216		H/V	74(Peak)/ 54(AV)
21618		H/V	74(Peak)/ 54(AV)
24020		H/V	74(Peak)/ 54(AV)

Operation Mode: Transmitting under Low Channel (2402MHz)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4882		Н	74(Peak)/ 54(AV)
4882		V	74(Peak)/ 54(AV)
7323		H/V	74(Peak)/ 54(AV)
9764		H/V	74(Peak)/ 54(AV)
12205		H/V	74(Peak)/ 54(AV)
14646		H/V	74(Peak)/ 54(AV)
17087		H/V	74(Peak)/ 54(AV)
19528		H/V	74(Peak)/ 54(AV)
21969		H/V	74(Peak)/ 54(AV)
24410		H/V	74(Peak)/ 54(AV)

Operation Mode: Transmitting g under Middle Channel (2441MHz)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

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Frequency (MHz)	Level@3m (dB µ V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
4960		Н	74(Peak)/ 54(AV)
4960		V	74(Peak)/ 54(AV)
7440		H/V	74(Peak)/ 54(AV)
9920		H/V	74(Peak)/ 54(AV)
12400		H/V	74(Peak)/ 54(AV)
14880		H/V	74(Peak)/ 54(AV)
17360		H/V	74(Peak)/ 54(AV)
19840		H/V	74(Peak)/ 54(AV)
22320		H/V	74(Peak)/ 54(AV)
24800		H/V	74(Peak)/ 54(AV)

Operation Mode: Transmitting under High Channel (2480MHz)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

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adopt any other remedies which may be appropriate.



Please refer to the following test plots for details: Low Channel: Horizontal



Low Channel : Vertical



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Middle Channel : Horizontal



Middle Channel : Vertical



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High Channel : Vertical





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7.0 20dB Bandwidth Measurement

7.1 Regulation

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

7.2 Limits of 20dB Bandwidth Measurement

N/A

7.3 Test Procedure.

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span =3MHz, RBW =30 kHz, VBW=100 kHz, Sweep = auto Detector function = peak, Trace = max hold

3. Measure the highest amplitude appearing on spectral display and record the level to calculate results. 6. Repeat above procedures until all frequencies measured were complete.

7.4 Test Result

Type of Modulation: GFSK

EUT		Tablet PC		M710R, EM756, P700
Mode	Ke	Keep Transmitting		AC120V
Temperat	ure	e 24 deg. C,		56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402	878		Pass
Middle	2441	950		Pass
High	2480	944		Pass

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Test Figure:

1. Condition: Low Channel



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2. Condition: Middle Channel



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3. High Channel



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Test Result Type of Modulation: Л/4DQPSK

EUT		Tablet PC		M710R, EM756, P700		
Mode	K	Keep Transmitting		Keep Transmitting		AC120V
Temperat	ure	re 24 deg. C,		56% RH		
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail		
Low	2402	1263		Pass		
Middle	2441	1257		Pass		
High	2480	1238		Pass		

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Test Figure:

1. Condition: Low Channel



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2. Condition: Middle Channel



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3. High Channel



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Test Result Type of Modulation: 8DPSK

EUT		Tablet PC		M710R, EM756, P700		
Mode	e Keep Transmitting		Input Voltage	AC120V		
Temperat	ure	24 deg. C, Humidity		24 deg. C, Humidity		56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Lim (kHz)	it Pass/ Fail		
Low	2402	1269		Pass		
Middle	2441	1269		Pass		
High	2480	1263		Pass		

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Test Figure:

1. Condition: Low Channel



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2. Condition: Middle Channel



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3. High Channel



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8. Maximum Output Power

8.1 Regulation

According to \$15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band:0.125 watts. According to \$15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel; RBW > the 20 dB bandwidth of the emission being measured; VBW = 10MHz, RBW=3MHz; Sweep = auto; Detector function = peak; Trace = max hold

3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.

4. Repeat above procedures until all frequencies measured were complete.

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8.4Test Results Type of Modulation: GFSK

EUT		Tablet PC	Model	M710R, EM756, P700
Mode	K	eep Transmitting	Input Voltage	AC120V
Temperature	2	24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
Low	2402	1.88	30	Pass
Middle	2441	1.99	30	Pass
High	2480	1.88	30	Pass

Note: 1. the result basic equation calculation as follow:

- Max. Power Output = Power Reading + Cable loss + Attenuator
- 2. The worse case was recorded

Type of Modulation: Л/4DQPSK

EUT		Tablet PC	Model	M710R, EM756, P700
Mode	Ke	eep Transmitting	Input Voltage	AC120V
Temperature	2	24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
Low	2402	0.52	30	Pass
Middle	2441	0.68	30	Pass
High	2480	0.38	30	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

2. The worse case was recorded

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Type of Modulation: 8DPSK

EUT		Tablet PC	Model	M710R, EM756, P700
Mode	K	Keep Transmitting		AC120V
Temperature	2	24 deg. C,		56% RH
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
Low	2402	0.68	30	Pass
Middle	2441	0.81	30	Pass
High	2480	0.68	30	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

2. The worse case was recorded

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9. Carrier Frequency Separation

9.1 Regulation

According to §15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

9.2 Limits of Carrier Frequency Separation

The Maximum Power Spectral Density Measurement is 25kHz or two-thirds of the 20dB bandwidth of the hopping Channel which is great.

9.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW) $\geq 1\%$ of the span; Video (or Average) Bandwidth (VBW) $\geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold

3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.

4. Repeat above procedures until all frequencies measured were complete.

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9.4Test Result

Type of Modulation: GFSK

EUT	Tablet PC	Model	M710F	R, EM756, P700	
Mode	Hopping On I		Input Voltage	AC120V	
Temperature	24 deg. C,		Humidity		56% RH
Carrier Frequency Separation			Limit		Pass/ Fail
1.000MHz		\geq 25 kHz or 2/3	3 of the 20 dB ban	dwidth	Pass

Test Plots



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Type of Modulation: Л/4DQPSK

EUT	Tablet PC	Model	M710I	R, EM756, P700	
Mode	Hopping O	Input Voltage	AC120V		
Temperature	24 deg. C,	Humidity	56% RH		
Carrier Frequency Separation			Limit		Pass/ Fail
	1.000MHz	≥ 25 kHz or 2	2/3 of 20 dB bandy	width	Pass

Test Plots



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Type of Modulation: 8DPSK

EUT	Tablet PC	Model	M710I	R, EM756, P700	
Mode	Hopping O	Input Voltage	AC120V		
Temperature	24 deg. C,	Humidity	56% RH		
Carrier I	Frequency Separation		Limit		Pass/ Fail
	1.000MHz	≥ 25 kHz or 2	2/3 of 20 dB bandy	width	Pass

Test Plots



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10. Number of Hopping Channels

10.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

10.2 Limits of Number of Hopping Channels

The frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

10.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = the frequency band of operation; RBW=100 kHz, VBW=300 kHz; Sweep = auto; Detector function = peak; Trace = max hold

3. Record the number of hopping channels.

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10.4Test Result

Type of Modulation: GFSK

EUT	Tablet PC		Model	M710I	R, EM756, P700
Mode		Hopping On	Input Voltage	AC120V	
Temperature	24 deg. C,		Humidity	56% RH	
Operating Frequency		Number of hopp	ping channels	Limit	Pass/ Fail
2402-2480MHz		79	≥15	Pass	

Test Plot



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Type of Modulation: Л/4DQPSK

EUT	Tablet PC		Model		M710R, EM756, P700	
Mode	Hopping On		Input Voltage		AC120V	
Temperature	24 deg. C,		Humidity		56% RH	
Operating Frequency		Number of hopp channels	oing	Lir	nit	Pass/ Fail
2402-2480MHz		79		2	15	Pass

Test Plot



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Type of Modulation: 8DPSK

EUT	Tablet PC		Model	M710		M710R, EM756, P700	
Mode	Hopping On		Input V	ut Voltage		AC120V	
Temperature	24 deg. C,		Humidi	ity		56% RH	
Operating Frequency		Number of hopp channels	oing	Liı	nit	Pass/ Fail	
2402-2480MHz 79			2	15	Pass		

Test Plot



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11. Time of Occupancy (Dwell Time)

11.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

11.2 Limits of Carrier Frequency Separation

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed

11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW

≥ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold

3. Measure the dwell time using the marker-delta function.

4. Repeat above procedures until all frequencies measured were complete.

5. Repeat this test for different modes of operation (e.g., data rate, modulation format, etc.), if applicable.

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11.4 Test Result

Type of Modulation: GFSK

EUT	Tabl	et PC	Model	M710R,	, EM756, P700
Mode	Keep Tra	ansmitting	Input Voltage	A	AC120V
Temperatur	re 24 d	eg. C,	Humidity	5	56% RH
Channel	Reading	Hoping	g Rate	Actual	Limit
High	3.01ms	266.66	7 hop/s	0.321s	0.4s
Middle	3.01ms	266.66	7 hop/s	0.321s	0.4s
Low	2.99ms	266.667 hop/s		0.319s	0.4s

Actual = Reading \times (Hopping rate / Number of channels) \times Test period, Test period = 0.4 [seconds / channel] \times 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625µs with 79 channels.

Note: DH5 was the wore case

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Test Plots:

DH5 High Channel:



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DH5

Middle Channel



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DH5

Low Channel



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Test Result

Type of Modulation: Л/4DQPSK

EUT	Tabl	et PC	Model	M710R	, EM756, P700
Mode	Keep Tra	ansmitting	Input Voltage	I	AC120V
Temperatur	re 24 d	eg. C,	Humidity	5	56% RH
Channel	Reading	Hoping	g Rate	Actual	Limit
High	2.99ms	266.66	7 hop/s	0.319s	0.4s
Middle	3.01ms	266.66	7 hop/s	0.321s	0.4s
Low	2.99ms	266.667 hop/s		0.319s	0.4s

Actual = Reading \times (Hopping rate / Number of channels) \times Test period, Test period = 0.4 [seconds / channel] \times 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625µs with 79 channels.

Note: DH5 was the worse case.

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Test Plots: **2DH5 High Channel**



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2DH5

Middle Channel



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2DH5





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Type of Modulation: 8DPSK

EUT	Tabl	et PC Model		M710R	, EM756, P700
Mode	Keep Tra	ansmitting	Input Voltage	ŀ	AC120V
Temperatur	re 24 d	eg. C, Humidity		5	56% RH
Channel	Reading	Hoping	g Rate	Actual	Limit
High	2.99ms	266.66	7 hop/s	0.319s	0.4s
Middle	2.99ms	266.667 hop/s		0.319s	0.4s
Low	3.01ms	266.66	266.667 hop/s		0.4s

Actual = Reading \times (Hopping rate / Number of channels) \times Test period, Test period = 0.4 [seconds / channel] \times 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625µs with 79 channels.

Note: DH5 was the worse case.

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Test Plots: **3DH5 High Channel**



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3DH5

Middle Channel



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3DH5

Low Channel



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12 Out of Band Measurement

12.1 Test Setup



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

12.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

12.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. Peak values with RBW=VBW=1MHz and PK detector. For bandage test, the spectrum set as follows: RBW=100, VBW=300 kHz. A conducted measurement used

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

2. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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Type of Modulation: GFSK

Out of Band Test Result 12.4

Product:		Tablet PC	Test Mode:	Low Channel
Mode	Kee	ping Transmitting	Input Voltage	AC120V
Temperature		24 deg. C		56% RH
Test Result:		Pass		PK
The Max. FS in	PK (dBµV/m)	42.6		74(dBµV/m)
Restrict Band	AV(dBµV/m)	AV(dBµV/m)		54(dBµV/m)
2390MHz				
Tost Figures				



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Type of Modulation: GFSK

Out of Band Test Result 12.4

Product:	Tablet PC			Test Mode:	High Channel
Mode	Kee	ping Transmitting		AC120V	
Temperature		24 deg. C,		Humidity	56% RH
Test Result:		Pass		Detector	РК
The Max. FS in	PK (dBµV/m)	39.8			74(dBµV/m)
Restrict Band	$AV(dB\mu V/m)$			Limit	54(dBµV/m)
2483.5MHz					
Test Figure:					
Ref Lv	Mark 1	er 1 [T1] 1.20 dBm	RBW VBW	100 kHz F 300 kHz	≀F Att 20 dB
10 dB	m	2.47985972 GHz	SWT	7.5 ms (Jnit dBm
10				▼1 [m1]	1 20 dBm
		1			2.47985972 GHz
0				▼2 [T1]	-59.14 dBm
					2.48350000 GHz
-10					
-20 1MAX					1MA
-30					
-40					
-50		<u>M</u>			
-60		2 7			
nenterun	montelle		Mulune	hendermann	many Marelmann
-70			_		
-80					
-90					
Start	2.47 GHz	3	MHz/		Stop 2.5 GHz

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Type of Modulation: GFSK

Out of Band Test Result 12.4

Product:		Tablet PC		Test Mode:	Hopping mode	
Mode		Hopping On		Input Voltage	AC120V	
Temperature		24 deg. C,		Humidity	56% RH	
Test Result:		Pass		Detector	РК	
The Max. FS in	PK (dBµV/m)	40.7			74(dBµV/m)	
Restrict Band	$AV(dB\mu V/m)$			Limit	54(dBµV/m)	
2390MHz						
Test Figure:						
	Marker 1	[T1] F	RBW 1	100 kHz RF A	Att 20 dB	
Ref Lvl	2	1.31 dBm \	/BW (300 kHz	dPm	
10 dBm	2.	40099399 GHZ	5VV 1			
				▼1 [T1]	1.31 dBm	
0				2 .	40699399-GHz	
				2 [11]	40000000 GRZ	
-10				∇ _{3 [T1]}	-62.80 dBm	
				2.	зэорраадо Бих	
-20						
1MAX					1MA	
-30						
50						
-40						
5.0					2	
-50					9	
-60		Anthonish and	6. N. J. A. 6			
mohalle	muchhar		vuvu	randroway.		
-70						
-80						
-90	5 GHz	6 MHz/		s	top 2.41 GHz	

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Type of Modulation: GFSK

Out of Band Test Result 12.4

Product:	Tablet PC			Test Mode:	Hopping mode	
Mode		Hopping On	Input Voltage	AC120V		
Temperature		24 deg. C,		Humidity	56% RH	
Test Result:		Pass		Detector	РК	
The Max. FS in	PK (dBµV/m)	41.4			74(dBµV/m)	
Restrict Band	$AV(dB\mu V/m)$			Limit	54(dBµV/m)	
2483.5MHz						
Test Figure:						
Ref Lyl	Marker 1	[T1]	RBW 1	LOO KHZ RF A	Att 20 dB	
10 dBm	2.	47288577 GHz	SWT 7	7.5 ms Unit	dBm	
10				V 1 [m1]	1 10 -	
1				2.	47288577 GHz	
	<u>`~~~~~</u>	M		▼2 [T1]	-62.72 dBm	
				2.	48350000 GHz	
-10	\/ \/ \/ \/ \/ \/ \					
-20						
-30					1MA	
-40						
-50		"VI				
-60		Million and Millio	W. M. N. A	. O A A A A		
-70					· We have have a	
-80						
-90						
Start 2.4	7 GHz	3 M	Hz/		Stop 2.5 GHz	

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Type of Modulation: Л/4DQPSK

Out of Band Test Result 12.4

Product:		Tablet PC		Test Mode:	Low Channel
Mode	Kee	ping Transmitting		Input Voltage	AC120V
Temperature		24 deg. C		Humidity	56% RH
Test Result:		Pass		Detector	РК
The Max. FS in	PK (dBµV/m)	42.1			74(dBµV/m)
Restrict Band	AV(dBµV/m)			Limit	54(dBµV/m)
2390MHz					
Test Figure:					
<u>k</u>	Marker	1 [T1]	RBW	100 kHz RF	Att 20 dB
Ref Lv	1	0.25 dBm	VBW	300 kHz	
10 dB	m	2.40194389 GHz	SWT	15 ms Uni	t dBm
10				▼1 [T1]	C.25 dBm
				2	.40194389 GHz
0				♥2 [T1]	48.56 dBm
				2	.40000000 GHz
-10				V3 [T1]	-65.77 dBm
				2	.3900000 GHz
-20					
1MAX					1MA
-30					
4.0					VY
-40					
-50					
-60					
mmmmm	when man have me	1 Marman Marcard	mandel	water thank	meren
-70					
-80					
- 9.0					
Start	2.35 GHz	6 MH	Iz/		Stop 2.41 GHz

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Type of Modulation: Л/4DQPSK

Out of Band Test Result 12.4

Product:		Tablet PC		Test Mode:	High Channel
Mode	Kee	ping Transmitting		Input Voltage	AC120V
Temperature		24 deg. C,		Humidity	56% RH
Test Result:		Pass		Detector	РК
The Max. FS in	PK (dBµV/m)	40.6			74(dBµV/m)
Restrict Band	$AV(dB\mu V/m)$			Limit	54(dBµV/m)
2483.5MHz					
Test Figure:					
R	Marker	1 [T1]	RBW	100 kHz RF	Att 20 dB
Ref Lvl		0.19 dBm	VBW	300 kHz	
10 dBm	2	.47985972 GHz	SWT	7.5 ms Uni	t dBm
				▼1 [T1]	C.19 dBm
		1		2	.47985972 GHz
0				▼2 [T1]	-62.97 dBm
		$\langle \rangle$		2	.48350000 GHz
-10					
-20					
1MAX					1MA
- 3.0					
50					
	L.	M			
-40					
		4			
-50					
-60	n n				
1 marmin	man	Vulu ~	June Me	And many a NVM as he had	n ter Myth humans
-70					
-80					
-90			Н 7 /		Stop 2 5 GHz

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Type of Modulation: $\pi/4DQPSK$

Out of Band Test Result 12.4

ModeHopping OnInput VoltageAC120VTemperature24 deg. C.Humidity56% RH		
Temperature 24 deg. C. Humidity 56% RH		
	56% RH	
Test Result: Pass Detector PK		
The Max. FS inPK ($dB\mu V/m$)41.974($dB\mu V/n$)	n)	
Restrict BandAV($dB\mu V/m$)Limit54($dB\mu V/m$)	n)	
2390MHz		
Test Figure:		
Marker 1 [T1] RBW 100 kHz RF Att 20 dB		
Ref Lvl 0.24 dBm VBW 300 kHz 10 dDr 2 40404000 GU 300 kHz 300 kHz		
10 aBm 2.40494990 GHZ SWT 15 ms Unit aBm	1	
▼1 [T1] C.24 dBm	A	
0 2.40494990 GHz		
-10 ▼3 [T1] -69.34 dBr		
2.39000000 GHz		
	1 1 10	
	IMA	
-30		
-50		
-60		
and the second and the second with the second of the secon		
-901	9	

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Type of Modulation: $\pi/4DQPSK$

12.4 Out of Band Test Result

Product:		Tablet PC	Test Mode:	Hopping mode
Mode	Hopping On I		Input Voltage	AC120V
Temperature	24 deg. C, I		Humidity	56% RH
Test Result:	Pass		Detector	РК
The Max. FS in	PK (dBµV/m)	41.0		74(dBµV/m)
Restrict Band	AV(dBµV/m)		Limit	54(dBµV/m)
2483.5MHz				

Test Figure:



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Type of Modulation: 8DPSK

Out of Band Test Result 12.4

Product:		Tablet PC		Test Mode:	Low Channel
Mode	Kee	ping Transmitting		Input Voltage	AC120V
Temperature		24 deg. C		Humidity	56% RH
Test Result:		Pass		Detector	РК
The Max. FS in	PK (dBµV/m)	40.8			74(dBµV/m)
Restrict Band	AV(dBµV/m)			Limit	54(dBµV/m)
2390MHz					
Test Figure:					
Ŕ	Marker	1 [T1]	RBW	100 kHz RF	Att 20 dB
Ref Lvl	-	0.26 dBm	VBW	300 kHz	
10 dBm	1	2.40194389 GHz	SWT	15 ms Uni	.t dBm
I U				▼1 [T1]	0.26 dBm
				2	.40194389 GHz
0				▼2 [T1]	450.63 dBm
				2	.400 <mark>00000 GHz</mark>
-10				▼ _{3 [T1]}	<u>-65.45 dBm</u>
				2	.39000000 GHz
-20					
1MAX					1MA
-30					
-30					
					NY
-40					
-50					4
-60					
		astruck has and	MA. 14 M.	3 Vin Xm lake make	WM
-70				Volume Contraction of the last	
, ,					
-80					
-90					
Start 2	2.35 GHz	6 M	Hz/		Stop 2.41 GHz

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Type of Modulation: 8DPSK

Out of Band Test Result 12.4

Product:		Tablet PC		Test Mo	ode:	I	High Chan	nel
Mode	Kee	Keeping Transmitting Input Voltage			ltage	AC120V		7
Temperature		24 deg. C,		Humid	ity	56% RH		-
Test Result:		Pass		Detect	or		PK	
The Max. FS in	PK (dBµV/m)	41.3					74(dBµV/1	m)
Restrict Band	$AV(dB\mu V/m)$			Limi	t		54(dBµV/1	n)
2483.5MHz								
Test Figure:								
Ref Lv 10 dB	Marko vl Sm	er 1 [T1] 0.19 dBn 2.47985972 GH	RBW m VBW z SWT	100 kH: 300 kH: 7.5 ms	z RF z Un	'Att	20 dB dBm	
10				_				
0		1		1 [T1]	C 2.47985	.19 dBm 972 GHz	A
0				v ₂ [T1]	-63	.59 dBm	
1.0						2.48330	000 GHZ	
-10								
-20 1MAX								1MA
-30								
- 10		N m						
-50		4 - W						
- 60	l V	<u> </u>						
mllin	were man to well	Var Var	however	mannen	menglen	unun	unchig	
-70			-					
-80								
-90								
Start	2.47 GHz	3	MHz/			Stop	2.5 GHz	

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Type of Modulation: 8DPSK

Out of Band Test Result 12.4

Product:		Tablet PC		Test Mode:	: I	Iopping mode	
Mode		Input Voltag	ge	AC120V			
Temperature		24 deg. C,		Humidity		56% RH	
Test Result:		Pass		Detector		РК	
The Max. FS in	PK (dBµV/m)	41.7				74(dBµV/m)	
Restrict Band	$AV(dB\mu V/m)$			Limit		54(dBµV/m)	
2390MHz							
Test Figure:							
	Marker 1	[T1]]	RBW	100 kHz R	F Att	20 dB	
Ref Lvl	2	0.27 dBm	/BW (300 kHz	nit	dPm	
10 dBm	۷.	40091704 GHZ .	5W1	13 115 0			
				▼1 [T1]		C.27 dBm	
0				♥2 [11]	2.4089	1784 GHz	
					2.4000		
-10				▼ ₃ [T1]	-6	4.76 dBm	
					2.3900	0000 GHz	
-20							
1MAX						1MA	
-20							
-30							
					N		
-40							
-50					7		
-60		بلا الم الم		3			
month	nementation	wwwwwwww	uhw	waynwa			
-70							
-80						+	
-90							

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Type of Modulation: 8DPSK

Out of Band Test Result 12.4

Product:	Tablet PC		Test Mode:	Hopping mode
Mode	Hopping On 1		Input Voltage	AC120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	РК
The Max. FS in	PK (dBµV/m)	41.9		74(dBµV/m)
Restrict Band	AV(dBµV/m)		Limit	54(dBµV/m)
2483.5MHz				

Test Figure:



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13.0 Antenna Requirement

13.1 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 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

13.2 Antenna Connected constructions

Integral antenna used. The maximum Gain of the antennas is 1.0dBi.

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14.0 FCC ID/IC Label

FCC ID: RBD-M710R

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

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

Mark Location:



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Report No: FCC1507112-02 Date: 2015-07-29



15.0 Photo of testing

Conducted Emission Test Setup:



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Report No: FCC1507112-02 Date: 2015-07-29



Radiated Emission Test Setup:



End of the report

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