

# Global United Technology Services Co., Ltd.

Report No.: GTSE15010007801

## FCC Report (WIFI)

**Applicant:** SHENZHEN GIEC ELECTRONICS CO., LTD.

Address of Applicant: 24/F, Building A Xinian Center, No. 6021 Shennan Road,

Shenzhen, Guangdong, China

**Equipment Under Test (EUT)** 

**Product Name: Tablet PC** 

Model No.: GK-MID7046L, GK-MID7046H, GK-MDB7026,

MiTraveler 748

**GIEC** Trade Mark:

FCC ID: **ZVR-MITRAVELER748** 

FCC CFR Title 47 Part 15 Subpart C Section 15.247:2013 Applicable standards:

Date of sample receipt: January 19, 2015

**Date of Test:** January 19-29, 2015

Date of report issued: January 29, 2015

PASS \* **Test Result:** 

Authorized Signature:

Robinson Lo **Laboratory Manager** 

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of GTS or testing done by GTS in connection with, distribution or use of the product described in this report must be approved by GTS in writing.

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



## 2 Version

Version No.	Date	Description		
00	January 29, 2015	Original		

Prepared By:	50ML. 900	Date:	January 29, 2015
	Project Engineer		

Check By:

Date: January 29, 2015

Reviewer

Shenzhen, China 518102



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Project No.: GTSE150100078RF

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## 4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.



## **5** General Information

## 5.1 Client Information

Applicant:	SHENZHEN GIEC ELECTRONICS CO., LTD.	
Address of Applicant:	24/F, Building A Xinian Center, No. 6021 Shennan Road, Shenzhen, Guangdong, China	
Manufacturer:	SHENZHEN GIEC ELECTRONICS CO., LTD.	
Address of Manufacturer:	24/F, Building A Xinian Center, No. 6021 Shennan Road, Shenzhen, Guangdong, China	
Factory:	SHENZHEN GIEC ELECTRIC MANUFACTORY CO.,LTD.	
Address of Factory:	No.1 Building,Factory,No.7 District,Dayang Development Areas, FuYong Street,Baoan,Shenzhen,Guangdong,China	

## 5.2 General Description of EUT

Product Name:	Tablet PC
Model No.:	GK-MID7046L, GK-MID7046H, GK-MDB7026, MiTraveler 748
Operation Frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz
	802.11n(HT40): 2422MHz~2452MHz
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11
	802.11(HT40): 7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS)
	802.11g/802.11n(H20)/802.11n(H40):
	Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	PIFA antenna
Antenna gain:	2.0dBi (declare by Applicant)
Power supply:	Model No.: GT-WCAU05000150-313
	Input: AC 100-240V, 50-60Hz, 0.4A
	Output: DC 5V, 1500mA



Operation Frequency each of channel							
Channel Frequency Channel Frequency Channel Frequency						Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

#### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency (MHz)		
rest channel	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)	
Lowest channel	2412MHz	2422MHz	
Middle channel	2437MHz	2437MHz	
Highest channel	2462MHz	2452MHz	

#### 5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting model with dutycycle >98%
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Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	802.11b	2.11b 802.11g 802.11n(HT20)		802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

#### 5.4 Description of Support Units

None.

Global United Technology Services Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102



## 5.5 Test Facility

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

#### • CNAS —Registration No.: CNAS L5775

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### • FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

#### • Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

#### 5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen,

China

Tel: 0755-27798480 Fax: 0755-27798960

Global United Technology Services Co., Ltd.

2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District,

Shenzhen, China 518102



## 6 Test Instruments list

Radi	Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 28 2014	Mar. 27 2015		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	Spectrum Analyzer	Agilent	E4440A	GTS533	July 01 2014	June 30 2015		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	July 01 2014	June 30 2015		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July 01 2014	June 30 2015		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 28 2014	Mar. 27 2015		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 29 2014	Mar. 28 2015		
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 29 2014	Mar. 28 2015		
11	Coaxial cable	GTS	N/A	GTS210	Mar. 29 2014	Mar. 28 2015		
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 29 2014	Mar. 28 2015		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	July 01 2014	June 30 2015		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July 01 2014	June 30 2015		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015		
16	Band filter	Amindeon	82346	GTS219	Mar. 29 2014	Mar. 28 2015		
17	Power Meter	Anritsu	ML2495A	GTS540	July 01 2014	June 30 2015		
18	Power Sensor	Anritsu	MA2411B	GTS541	July 01 2014	June 30 2015		

Cond	Conducted Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	July 01 2014	June 30 2015		
2	<b>EMI Test Receiver</b>	Rohde & Schwarz	ESCS30	GTS223	July 01 2014	June 30 2015		
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	July 01 2014	June 30 2015		
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	July 01 2014	June 30 2015		
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	July 01 2014	June 30 2015		
6	Coaxial Cable	GTS	N/A	GTS227	July 01 2014	June 30 2015		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		

General used equipment:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Barometer	ChangChun	DYM3	GTS257	July 08 2014	July 07 2015		



#### 7 Test results and Measurement Data

## 7.1 Antenna requirement

**Standard requirement:** FCC Part15 C Section 15.203 /247(c)

#### 15.203 requirement:

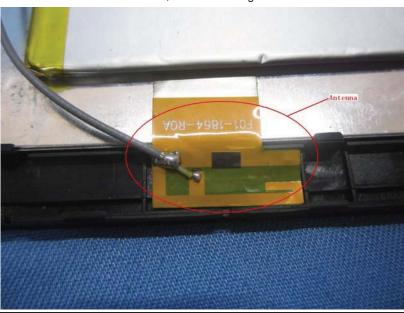
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

#### E.U.T Antenna:

The antenna is PIFA antenna, the best case gain of the antenna is 2.0dBi





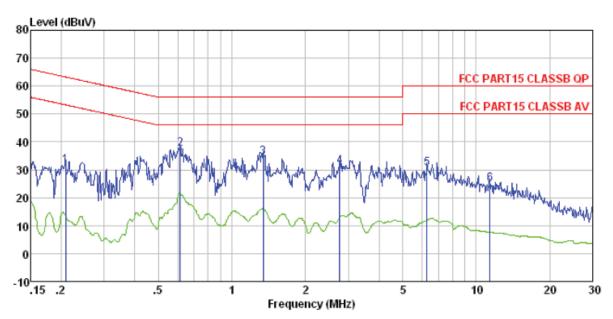
## 7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.4:2003				
Test Frequency Range:	150KHz to 30MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto			
Limit:	Frequency range (MHz)	Limit (c	dBuV)		
	, , ,	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithn	n of the frequency.			
Test setup:	Reference Plane		_		
	AUX Equipment  Test table/Insulation plane  Remark E.U.T  EMI Receiver  Receiver  Receiver  Remark E.U.T. Equipment Under Test LISN. Line Impedence Stabilization Network Test table height=0.8m				
Test procedure:	<ol> <li>The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.</li> </ol>				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				



#### Measurement data

Line:



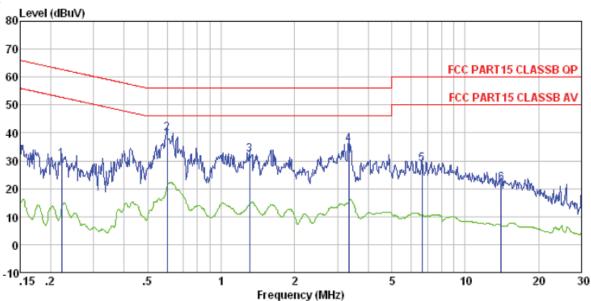
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. Test mode : 0078RF : Wifi mode Test Engineer: Mike

	Freq		LISN Factor					Remark
	MHz	dBuV	dB	d₿	dBuV	dBu₹	dB	
1 2			0.13 0.13					-
2	1.345	34.37	0.12 0.14	0.13	34.62	56.00	-21.38	QP
4 5	6.285	30.20	0.23	0.16	30.59	60.00	-29.41	QP
6	11.377	24. 25	0.35	0.20	24.80	60.00	-35. 20	QP



#### Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0078RF Test mode : Wifi mode Test Engineer: Mike

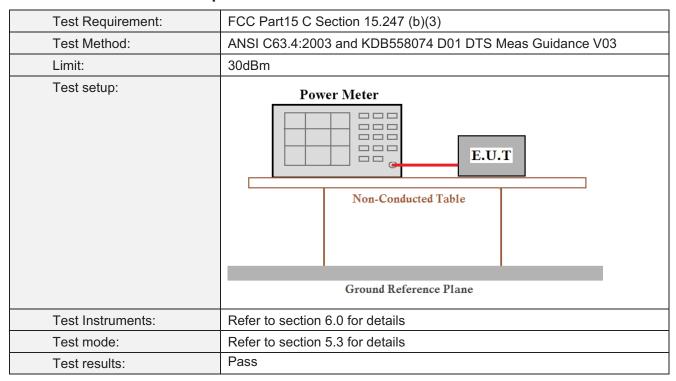
001	Freq	Read	LISN Factor					Remark
	MHz	dBu√	dB	dB	dBu₹	dBuV	dB	
1	0.222	30.36	0.06	0.12	30.54	62.74	-32.20	QP
2	0.601	39.71	0.07	0.12	39.90	56.00	-16.10	QP
3	1.310	31.89	0.09	0.13	32.11	56.00	-23.89	QP
4	3.328	35.49	0.13	0.15	35.77	56.00	-20.23	QP
5	6.662	28.43	0.18	0.16	28.77	60.00	-31.23	QP
6	14.063	21.42	0.33	0.22	21.97	60.00	-38.03	QP

### Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



## 7.3 Conducted Peak Output Power



#### **Measurement Data**

Test CH		Peak Outp	Limit(dBm)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesuit
Lowest	8.31	7.16	7.07	6.01		
Middle	8.23	7.15	7.13	6.03	30.00	Pass
Highest	8.44	7.28	7.12	6.08		



## 7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)			
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03			
Limit:	>500KHz			
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			

#### **Measurement Data**

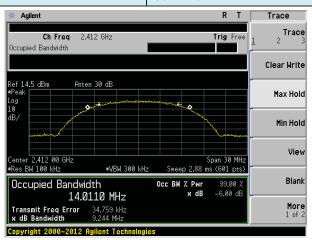
Test CH		Channel Ban	Limit(KHz)	Result		
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	LIIIII(KI IZ)	Result
Lowest	9.244	16.408	17.647	36.134		
Middle	10.540	16.407	17.661	36.238	>500	Pass
Highest	10.699	16.425	17.644	36.033		

## Test plot as follows:

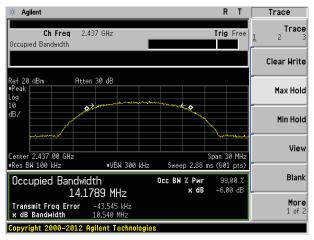
Shenzhen, China 518102



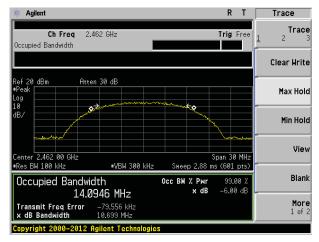
Test mode: 802.11b



#### Lowest channel



#### Middle channel

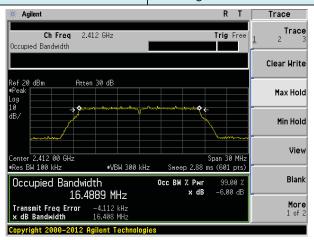


Highest channel

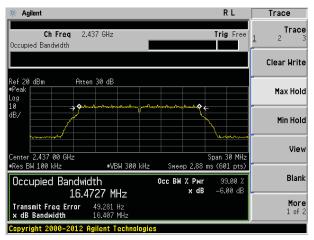
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



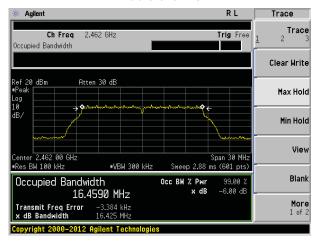
802.11g Test mode:



#### Lowest channel



#### Middle channel

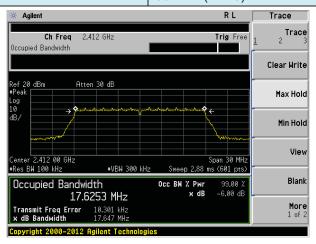


Highest channel

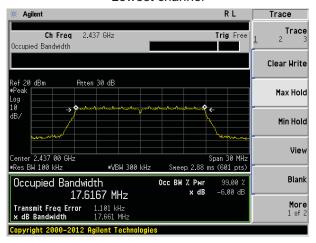
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



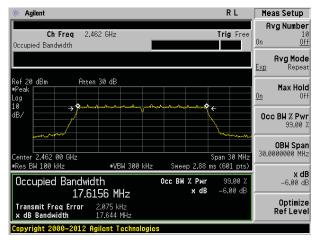
Test mode: 802.11n(HT20)



#### Lowest channel



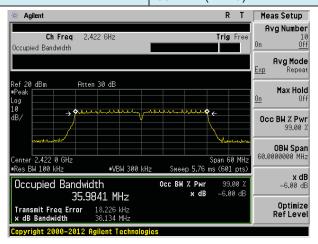
#### Middle channel



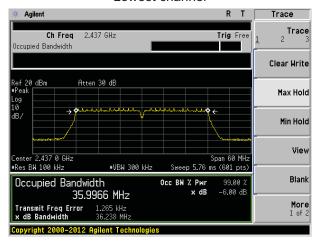
Highest channel



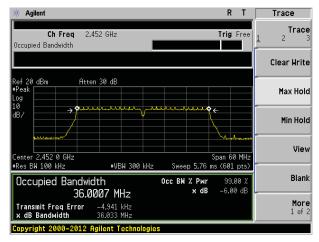
Test mode: 802.11n(HT40)



#### Lowest channel



#### Middle channel



Highest channel

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



## 7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)		
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03		
Limit:	8dBm		
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

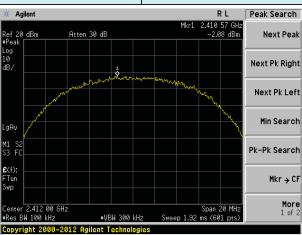
#### **Measurement Data**

Test CH		Power Spectra	Limit(dBm/3kHz)	Result			
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(dbin/3ki12)	Result	
Lowest	-2.08	-7.37	-7.75	-11.04			
Middle	-3.52	-7.02	-7.47	-10.63	8.00	Pass	
Highest	-2.63	-7.01	-7.51	-10.40			

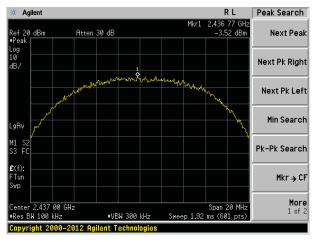


#### Test plot as follows:

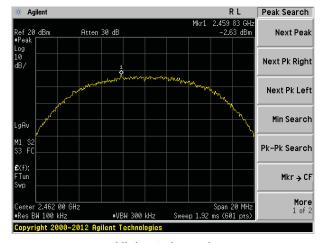
Test mode: 802.11b



#### Lowest channel



## Middle channel

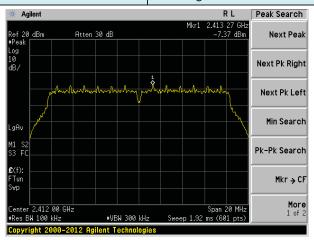


Highest channel

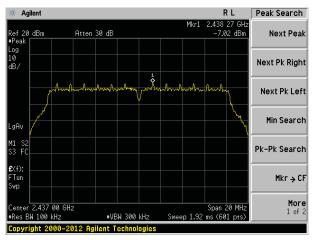
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



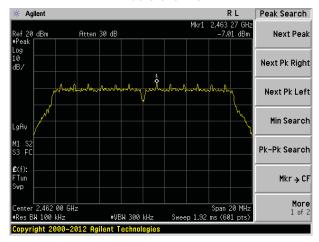
Test mode: 802.11g



#### Lowest channel



#### Middle channel

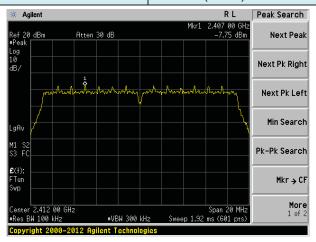


Highest channel

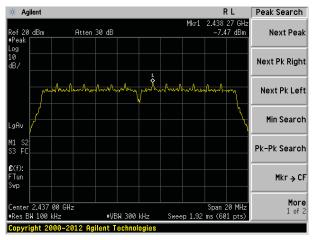
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



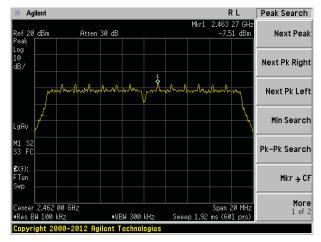
Test mode: 802.11n(HT20)



#### Lowest channel



#### Middle channel

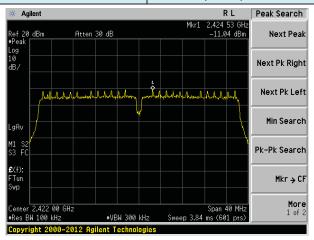


Highest channel

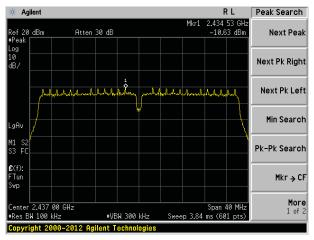
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



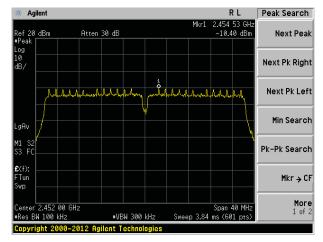
Test mode: 802.11n(HT40)



#### Lowest channel



#### Middle channel



Highest channel

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



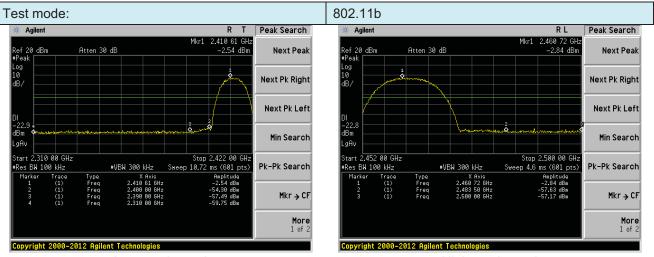
## 7.6 Band edges

## 7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)			
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.			
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			



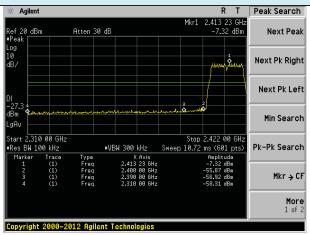
#### Test plot as follows:



Lowest channel

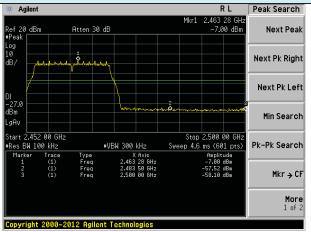
Highest channel

#### Test mode:



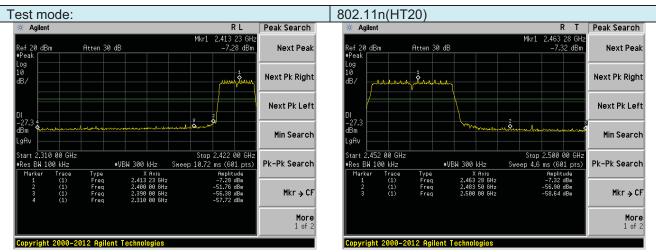
Lowest channel

## 802.11g



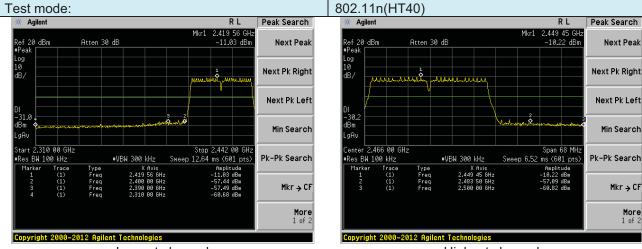
Highest channel





Lowest channel

Highest channel



Highest channel Lowest channel

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Mkr → CF

More 1 of 2



## 7.6.2 Radiated Emission Method

Test Requirement:	Test Requirement: FCC Part15 C Section 15.209 and 15.205						
Test Method:	ANSI C63.4: 2003						
Test Frequency Range:		All of the restrict bands were tested, only the worst band's (2390MHz to 2500MHz) data was showed.					
Test site:		Measurement Distance: 3m					
Receiver setup:	Frequency	Detector	RBW	VBW	Value		
·		Peak	1MHz	3MHz	Peak		
	Above 1GHz	RMS	1MHz	3MHz	Average		
Limit:	Freque	ency	Limit (dBuV	/m @3m)	Value		
	Above 1	CH-	54.0	0	Average		
	Above 1	GHZ	74.0	0	Peak		
Test setup:	Antenna Tower  Horn Antenna  Spectrum Analyzer  Turn Table  Amplifier						
Test Procedure:	<ol> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.</li> <li>The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test</li> </ol>						
Test Instruments:	Refer to section	6.0 for details					
Test mode:	Refer to section	5.3 for details					
Test results:	Pass						



#### Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

Test mode:	802.11b	Test channel:	Lowest
------------	---------	---------------	--------

#### Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.60	27.59	5.38	30.18	52.39	74.00	-21.61	Horizontal
2400.00	58.76	27.58	5.39	30.18	61.55	74.00	-12.45	Horizontal
2390.00	50.78	27.59	5.38	30.18	53.57	74.00	-20.43	Vertical
2400.00	59.63	27.58	5.39	30.18	62.42	74.00	-11.58	Vertical

#### Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	36.87	27.59	5.38	30.18	39.66	54.00	-14.34	Horizontal
2400.00	44.96	27.58	5.39	30.18	47.75	54.00	-6.25	Horizontal
2390.00	38.54	27.59	5.38	30.18	41.33	54.00	-12.67	Vertical
2400.00	45.95	27.58	5.39	30.18	48.74	54.00	-5.26	Vertical

mode: 802.11b	Test channel:	Highest
---------------	---------------	---------

#### Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.48	27.59	5.38	30.18	52.27	74.00	-21.73	Horizontal
2500.00	46.64	27.58	5.39	30.18	49.43	74.00	-24.57	Horizontal
2483.50	51.00	27.59	5.38	30.18	53.79	74.00	-20.21	Vertical
2500.00	48.37	27.58	5.39	30.18	51.16	74.00	-22.84	Vertical

#### Average value:

Average va	iac.							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.96	27.59	5.38	30.18	39.75	54.00	-14.25	Horizontal
2500.00	33.40	27.58	5.39	30.18	36.19	54.00	-17.81	Horizontal
2483.50	38.74	27.59	5.38	30.18	41.53	54.00	-12.47	Vertical
2500.00	35.21	27.58	5.39	30.18	38.00	54.00	-16.00	Vertical

#### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Project No.: GTSE150100078RF

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802.11g

Test mode:

Report No.: GTSE15010007801

Lowest

rost mode.		002.1	'9	10.	ot onamici.	-	OVVCOL	
Peak value	:	·						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	48.83	27.59	5.38	30.18	51.62	74.00	-22.38	Horizontal
2400.00	57.74	27.58	5.39	30.18	60.53	74.00	-13.47	Horizontal
2390.00	49.96	27.59	5.38	30.18	52.75	74.00	-21.25	Vertical
2400.00	58.40	27.58	5.39	30.18	61.19	74.00	-12.81	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	36.32	27.59	5.38	30.18	39.11	54.00	-14.89	Horizontal
2400.00	44.34	27.58	5.39	30.18	47.13	54.00	-6.87	Horizontal
2390.00	37.94	27.59	5.38	30.18	40.73	54.00	-13.27	Vertical
2400.00	45.26	27.58	5.39	30.18	48.05	54.00	-5.95	Vertical
Test mode:		802.1	1g	Tes	st channel:	F	lighest	
Peak value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.38	27.59	5.38	30.18	51.17	74.00	-22.83	Horizontal
2500.00	45.79	27.58	5.39	30.18	48.58	74.00	-25.42	Horizontal
2483.50	49.75	27.59	5.38	30.18	52.54	74.00	-21.46	Vertical
2500.00	47.38	27.58	5.39	30.18	50.17	74.00	-23.83	Vertical
Average va	lue:				_			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.30	27.59	5.38	30.18	39.09	54.00	-14.91	Horizontal
2500.00	32.89	27.58	5.39	30.18	35.68	54.00	-18.32	Horizontal
2483.50	38.01	27.59	5.38	30.18	40.80	54.00	-13.20	Vertical
2500.00	34.67	27.58	5.39	30.18	37.46	54.00	-16.54	Vertical
Remark:								

Test channel:

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Test mode:		802.1	1n(HT20)	Tes	st channel:	L	owest	
Peak value:				•				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.18	27.59	5.38	30.18	51.97	74.00	-22.03	Horizontal
2400.00	58.21	27.58	5.39	30.18	61.00	74.00	-13.00	Horizontal
2390.00	50.34	27.59	5.38	30.18	53.13	74.00	-20.87	Vertical
2400.00	58.97	27.58	5.39	30.18	61.76	74.00	-12.24	Vertical
Average va	lue:			•			•	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	36.57	27.59	5.38	30.18	39.36	54.00	-14.64	Horizontal
2400.00	44.62	27.58	5.39	30.18	47.41	54.00	-6.59	Horizontal
2390.00	38.21	27.59	5.38	30.18	41.00	54.00	-13.00	Vertical
2400.00	45.58	27.58	5.39	30.18	48.37	54.00	-5.63	Vertical
Test mode:		802.1	1n(HT20)	To	st channel:	L	Highest	
			111(11120)	100	st Charmer.	'	ligitest	
Peak value:	:		111(11120)	100	st Grianner.	'	lighest	
Peak value: Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
Frequency	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Polarization Horizontal
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	
Frequency (MHz) 2483.50	Read Level (dBuV) 48.88	Antenna Factor (dB/m) 27.59	Cable Loss (dB) 5.38	Preamp Factor (dB) 30.18	Level (dBuV/m) 51.67	Limit Line (dBuV/m) 74.00	Over Limit (dB)	Horizontal
Frequency (MHz)  2483.50  2500.00	Read Level (dBuV) 48.88 46.18	Antenna Factor (dB/m) 27.59 27.58	Cable Loss (dB) 5.38 5.39	Preamp Factor (dB) 30.18	Level (dBuV/m) 51.67 48.97	Limit Line (dBuV/m) 74.00 74.00	Over Limit (dB) -22.33 -25.03	Horizontal Horizontal
Frequency (MHz)  2483.50  2500.00  2483.50	Read Level (dBuV) 48.88 46.18 50.32 47.83	Antenna Factor (dB/m) 27.59 27.58 27.59	Cable Loss (dB) 5.38 5.39 5.38	Preamp Factor (dB) 30.18 30.18	Level (dBuV/m) 51.67 48.97 53.11	Limit Line (dBuV/m) 74.00 74.00 74.00	Over Limit (dB) -22.33 -25.03 -20.89	Horizontal Horizontal Vertical
Frequency (MHz)  2483.50  2500.00  2483.50  2500.00	Read Level (dBuV) 48.88 46.18 50.32 47.83	Antenna Factor (dB/m) 27.59 27.58 27.59	Cable Loss (dB) 5.38 5.39 5.38	Preamp Factor (dB) 30.18 30.18	Level (dBuV/m) 51.67 48.97 53.11	Limit Line (dBuV/m) 74.00 74.00 74.00	Over Limit (dB) -22.33 -25.03 -20.89	Horizontal Horizontal Vertical
Frequency (MHz)  2483.50  2500.00  2483.50  2500.00  Average va  Frequency	Read Level (dBuV) 48.88 46.18 50.32 47.83 Iue:	Antenna Factor (dB/m) 27.59 27.58 27.59 27.58 Antenna Factor	Cable Loss (dB) 5.38 5.39 5.38 Cable Loss	Preamp Factor (dB) 30.18 30.18 30.18 Preamp Factor	Level (dBuV/m) 51.67 48.97 53.11 50.62	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line	Over Limit (dB) -22.33 -25.03 -20.89 -23.38 Over Limit	Horizontal Horizontal Vertical Vertical
Frequency (MHz)  2483.50  2500.00  2483.50  2500.00  Average va  Frequency (MHz)	Read Level (dBuV) 48.88 46.18 50.32 47.83 Iue: Read Level (dBuV)	Antenna Factor (dB/m) 27.59 27.58 27.59 27.58 Antenna Factor (dB/m)	Cable Loss (dB) 5.38 5.39 5.38 Cable Loss (dB)	Preamp Factor (dB) 30.18 30.18 30.18 Preamp Factor (dB)	Level (dBuV/m) 51.67 48.97 53.11 50.62 Level (dBuV/m)	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	Over Limit (dB) -22.33 -25.03 -20.89 -23.38 Over Limit (dB)	Horizontal Horizontal Vertical Vertical Polarization
Frequency (MHz)  2483.50  2500.00  2483.50  2500.00  Average va  Frequency (MHz)  2483.50	Read Level (dBuV) 48.88 46.18 50.32 47.83 Iue: Read Level (dBuV) 36.60	Antenna Factor (dB/m) 27.59 27.58 27.59 27.58 Antenna Factor (dB/m) 27.59	Cable Loss (dB) 5.38 5.39 5.38 Cable Loss (dB) 5.38	Preamp Factor (dB) 30.18 30.18 30.18 Preamp Factor (dB) 30.18	Level (dBuV/m) 51.67 48.97 53.11 50.62 Level (dBuV/m)	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00  Contact Line (dBuV/m)  54.00	Over Limit (dB) -22.33 -25.03 -20.89 -23.38 Over Limit (dB) -14.61	Horizontal Horizontal Vertical Vertical Polarization Horizontal

Remark:

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<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

<sup>2.</sup> The emission levels of other frequencies are very lower than the limit and not show in test report.



Test mode:

Report No.: GTSE15010007801

Lowest

1 oot mode.		00	()			-		
Peak value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	48.36	27.59	5.38	30.18	51.15	74.00	-22.85	Horizontal
2400.00	57.11	27.58	5.39	30.18	59.90	74.00	-14.10	Horizontal
2390.00	49.46	27.59	5.38	30.18	52.25	74.00	-21.75	Vertical
2400.00	57.65	27.58	5.39	30.18	60.44	74.00	-13.56	Vertical
Average va	lue:			•	•	•	•	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	35.99	27.59	5.38	30.18	38.78	54.00	-15.22	Horizontal
2400.00	43.95	27.58	5.39	30.18	46.74	54.00	-7.26	Horizontal
2390.00	37.56	27.59	5.38	30.18	40.35	54.00	-13.65	Vertical
2400.00	44.84	27.58	5.39	30.18	47.63	54.00	-6.37	Vertical
Test mode:		802.1	1n(HT40)	Tes	st channel:	F	Highest	
Peak value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	47.71	27.59	5.38	30.18	50.50	74.00	-23.50	Horizontal
2500.00	45.27	27.58	5.39	30.18	48.06	74.00	-25.94	Horizontal
2483.50	48.98	27.59	5.38	30.18	51.77	74.00	-22.23	Vertical
2500.00	46.77	27.58	5.39	30.18	49.56	74.00	-24.44	Vertical
Average va	lue:			ı	T	ı	ı	T
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	35.89	27.59	5.38	30.18	38.68	54.00	-15.32	Horizontal
2500.00	32.57	27.58	5.39	30.18	35.36	54.00	-18.64	Horizontal
2483.50	37.57	27.59	5.38	30.18	40.36	54.00	-13.64	Vertical
2500.00	34.33	27.58	5.39	30.18	37.12	54.00	-16.88	Vertical
Remark:								

Test channel:

802.11n(HT40)

Remark:

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<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2.</sup> The emission levels of other frequencies are very lower than the limit and not show in test report.



## 7.7 Spurious Emission

#### 7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					

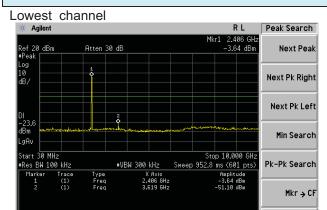


#### Test plot as follows:

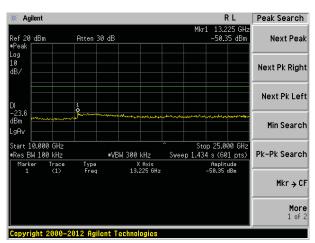
#### Test mode:

#### 802.11b

More 1 of 2



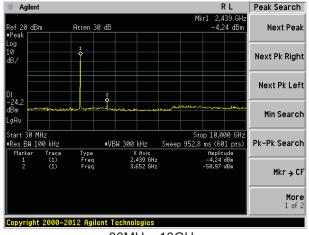
30MHz~10GHz



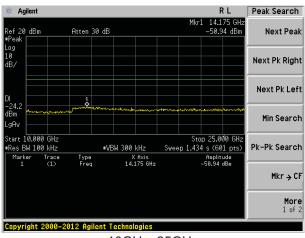
10GHz~25GHz



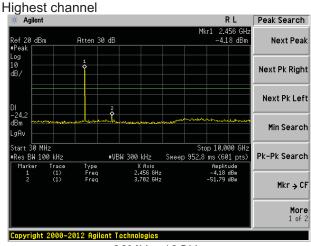
Copyright 2000-2012 Agilent Technologies



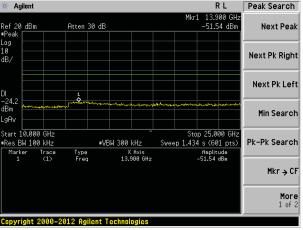
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



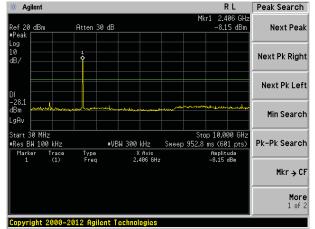
10GHz~25GHz



#### Test mode:

#### 802.11g

#### Lowest channel

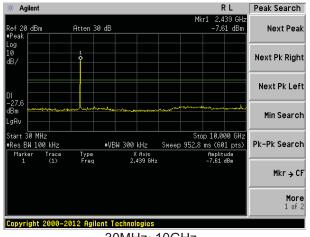


30MHz~10GHz

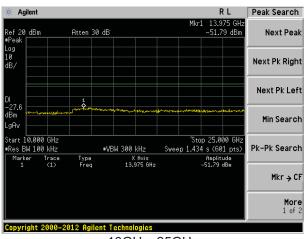
#### Agilent Peak Search 14.050 GHz -50.73 dBm Atten 30 dB Next Peak Next Pk Right Next Pk Left Min Search gAv Start 10.000 GHz ≢Res BW 100 kHz Stop 25.000 GH Sweep 1.434 s (601 pts . VBW 300 kHz Pk-Pk Search Type Freq Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

#### Middle channel

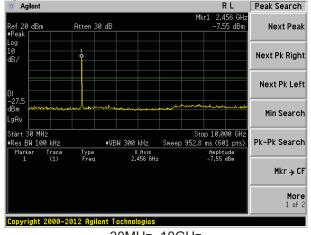


30MHz~10GHz

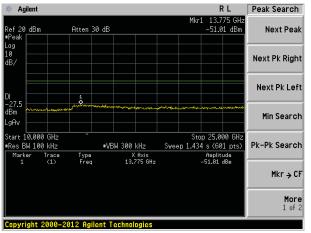


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



R L

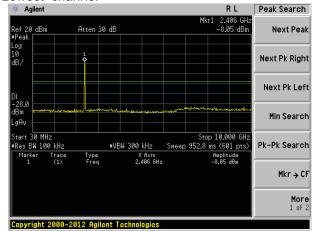
Peak Search

#### Test mode:

#### 802.11n(HT20)

Agilent

#### Lowest channel

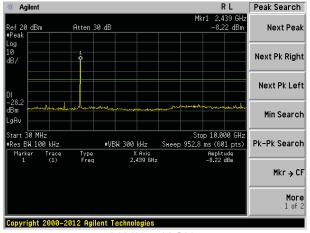


30MHz~10GHz

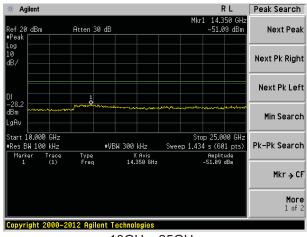
## 

10GHz~25GHz

#### Middle channel

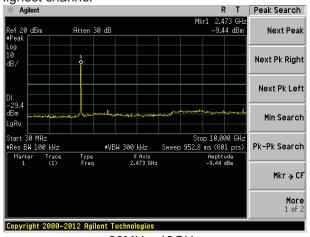


30MHz~10GHz

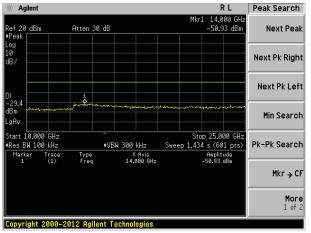


10GHz~25GHz

## Highest channel



30MHz~10GHz



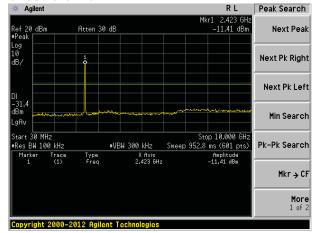
10GHz~25GHz



#### Test mode:

#### 802.11n(HT40)

#### Lowest channel

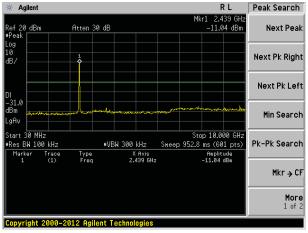


30MHz~10GHz

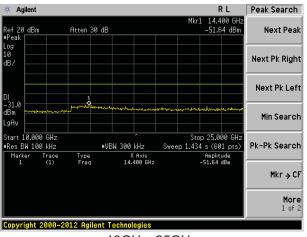
#### Peak Search Agilent R L Atten 30 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH: Sweep 1.434 s (601 pts) Start 10.000 GHz #VBW 300 kHz Pk-Pk Search ≢Res BW 100 kHz Type Freq X Axis 13.700 GHz Amplitude -51.84 dBm Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

#### Middle channel

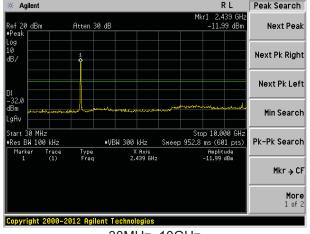


30MHz~10GHz

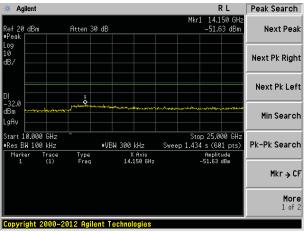


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



# 7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209										
Test Method:	ANSI C63.4: 2003										
Test Frequency Range:	30MHz to 25GHz										
Test site:	Measurement Dis	Measurement Distance: 3m  Frequency Detector RBW VBW Value									
Receiver setup:	Frequency										
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak						
	Above 1CHz	Peak	1MHz	3MHz	Peak						
	Above 1G112	Above 1GHz RMS 1MHz 3MHz									
Limit:	Frequen	су	Limit (dBuV	/m @3m)	Value						
	30MHz-88	MHz	40.0	0	Quasi-peak						
	88MHz-216MHz 43.50 Quasi-peak										
	216MHz-960MHz 46.00 Quasi-peak										
	960MHz-1	960MHz-1GHz 54.00 Quasi-peak									
		54 00 Average									
	Above 10	SHz -	74.0	0	Peak						
	Tum 7.8m	4m		Antenna  RF Test Receiver							
	Above 1GHz										
	Antenna Tower  Antenna Tower  Horn Antenna  Spectrum  Analyzer  Turn  Table  Amplifier										



Test Procedure:	The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
	7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

# Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.



#### **Measurement Data**

# ■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
49.01	43.98	15.31	0.76	30.00	30.05	40.00	-9.95	Vertical
87.73	46.33	13.18	1.09	29.76	30.84	40.00	-9.16	Vertical
178.13	51.00	11.55	1.73	29.28	35.00	43.50	-8.50	Vertical
517.25	43.42	18.94	3.38	29.30	36.44	46.00	-9.56	Vertical
218.31	44.02	13.13	1.95	29.38	29.72	46.00	-16.28	Vertical
672.85	31.56	20.72	3.99	29.23	27.04	46.00	-18.96	Vertical
46.83	36.24	15.44	0.74	30.01	22.41	40.00	-17.59	Horizontal
80.36	50.06	10.69	1.03	29.80	31.98	40.00	-8.02	Horizontal
107.13	42.78	14.49	1.25	29.65	28.87	43.50	-14.63	Horizontal
173.21	51.12	11.16	1.70	29.30	34.68	43.50	-8.82	Horizontal
213.02	47.91	12.97	1.92	29.32	33.48	43.50	-10.02	Horizontal
506.48	40.86	18.74	3.33	29.30	33.63	46.00	-12.37	Horizontal

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# Above 1GHz

Test mode:		802.11b		Tes	t channel:	Lowe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	50.74	31.79	8.62	32.10	59.05	74.00	-14.95	Vertical
7236.00	34.97	36.19	11.68	31.97	50.87	74.00	-23.13	Vertical
9648.00	33.18	38.07	14.16	31.56	53.85	74.00	-20.15	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	48.97	31.79	8.62	32.10	57.28	74.00	-16.72	Horizontal
7236.00	34.59	36.19	11.68	31.97	50.49	74.00	-23.51	Horizontal
9648.00	32.70	38.07	14.16	31.56	53.37	74.00	-20.63	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	39.47	31.79	8.62	32.10	47.78	54.00	-6.22	Vertical
7236.00	23.80	36.19	11.68	31.97	39.70	54.00	-14.30	Vertical
9648.00	23.50	38.07	14.16	31.56	44.17	54.00	-9.83	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	37.82	31.79	8.62	32.10	46.13	54.00	-7.87	Horizontal
7236.00	23.15	36.19	11.68	31.97	39.05	54.00	-14.95	Horizontal
9648.00	22.42	38.07	14.16	31.56	43.09	54.00	-10.91	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

#### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "\*", means this data is the too weak instrument of signal is unable to test.

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Test mode:		802.11b		Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	49.56	31.85	8.66	32.12	57.95	74.00	-16.05	Vertical
7311.00	34.87	36.37	11.71	31.91	51.04	74.00	-22.96	Vertical
9748.00	34.07	38.27	14.25	31.56	55.03	74.00	-18.97	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	47.83	31.85	8.66	32.12	56.22	74.00	-17.78	Horizontal
7311.00	33.40	36.37	11.71	31.91	49.57	74.00	-24.43	Horizontal
9748.00	33.92	38.27	14.25	31.56	54.88	74.00	-19.12	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.60	31.85	8.66	32.12	46.99	54.00	-7.01	Vertical
7311.00	23.15	36.37	11.71	31.91	39.32	54.00	-14.68	Vertical
9748.00	23.30	38.27	14.25	31.56	44.26	54.00	-9.74	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	36.96	31.85	8.66	32.12	45.35	54.00	-8.65	Horizontal
7311.00	22.47	36.37	11.71	31.91	38.64	54.00	-15.36	Horizontal
9748.00	23.61	38.27	14.25	31.56	44.57	54.00	-9.43	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

#### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "\*", means this data is the too weak instrument of signal is unable to test.

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Test mode:		802.11b		Test	channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	55.36	31.90	8.70	32.15	63.81	74.00	-10.19	Vertical
7386.00	36.15	36.49	11.76	31.83	52.57	74.00	-21.43	Vertical
9848.00	37.80	38.62	14.31	31.77	58.96	74.00	-15.04	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	52.52	31.90	8.70	32.15	60.97	74.00	-13.03	Horizontal
7386.00	34.87	36.49	11.76	31.83	51.29	74.00	-22.71	Horizontal
9848.00	33.89	38.62	14.31	31.77	55.05	74.00	-18.95	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	43.01	31.90	8.70	32.15	51.46	54.00	-2.54	Vertical
7386.00	26.02	36.49	11.76	31.83	42.44	54.00	-11.56	Vertical
9848.00	26.26	38.62	14.31	31.77	47.42	54.00	-6.58	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	41.27	31.90	8.70	32.15	49.72	54.00	-4.28	Horizontal
7386.00	24.22	36.49	11.76	31.83	40.64	54.00	-13.36	Horizontal
9848.00	23.12	38.62	14.31	31.77	44.28	54.00	-9.72	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

#### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "\*", means this data is the too weak instrument of signal is unable to test.

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Test mode:		802.11g		Test	channel:	lowe	st	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	49.69	31.79	8.62	32.10	58.00	74.00	-16.00	Vertical
7236.00	34.31	36.19	11.68	31.97	50.21	74.00	-23.79	Vertical
9648.00	32.70	38.07	14.16	31.56	53.37	74.00	-20.63	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	48.08	31.79	8.62	32.10	56.39	74.00	-17.61	Horizontal
7236.00	34.01	36.19	11.68	31.97	49.91	74.00	-24.09	Horizontal
9648.00	32.26	38.07	14.16	31.56	52.93	74.00	-21.07	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	38.50	31.79	8.62	32.10	46.81	54.00	-7.19	Vertical
7236.00	23.16	36.19	11.68	31.97	39.06	54.00	-14.94	Vertical
9648.00	23.04	38.07	14.16	31.56	43.71	54.00	-10.29	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	36.99	31.79	8.62	32.10	45.30	54.00	-8.70	Horizontal
7236.00	22.59	36.19	11.68	31.97	38.49	54.00	-15.51	Horizontal
9648.00	22.00	38.07	14.16	31.56	42.67	54.00	-11.33	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

#### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "\*", means this data is the too weak instrument of signal is unable to test.

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Test mode:		802.11g		Te	st channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	i i evei	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	48.69	31.85	8.66	32.12	57.08	74.00	-16.92	Vertical
7311.00	34.32	36.37	11.71	31.91	50.49	74.00	-23.51	Vertical
9748.00	33.68	38.27	14.25	31.56	54.64	74.00	-19.36	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	47.09	31.85	8.66	32.12	55.48	74.00	-18.52	Horizontal
7311.00	32.92	36.37	11.71	31.91	49.09	74.00	-24.91	Horizontal
9748.00	33.55	38.27	14.25	31.56	54.51	74.00	-19.49	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	i evei	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	37.80	31.85	8.66	32.12	46.19	54.00	-7.81	Vertical
7311.00	22.62	36.37	11.71	31.91	38.79	54.00	-15.21	Vertical
9748.00	22.92	38.27	14.25	31.56	43.88	54.00	-10.12	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	36.27	31.85	8.66	32.12	44.66	54.00	-9.34	Horizontal
7311.00	22.00	36.37	11.71	31.91	38.17	54.00	-15.83	Horizontal
9748.00	23.26	38.27	14.25	31.56	44.22	54.00	-9.78	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

#### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "\*", means this data is the too weak instrument of signal is unable to test.

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Test mode:		802.11g		Test	channel:	Highe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	53.86	31.90	8.70	32.15	62.31	74.00	-11.69	Vertical
7386.00	35.20	36.49	11.76	31.83	51.62	74.00	-22.38	Vertical
9848.00	37.12	38.62	14.31	31.77	58.28	74.00	-15.72	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	51.26	31.90	8.70	32.15	59.71	74.00	-14.29	Horizontal
7386.00	34.04	36.49	11.76	31.83	50.46	74.00	-23.54	Horizontal
9848.00	33.27	38.62	14.31	31.77	54.43	74.00	-19.57	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	41.63	31.90	8.70	32.15	50.08	54.00	-3.92	Vertical
7386.00	25.10	36.49	11.76	31.83	41.52	54.00	-12.48	Vertical
9848.00	25.61	38.62	14.31	31.77	46.77	54.00	-7.23	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	40.09	31.90	8.70	32.15	48.54	54.00	-5.46	Horizontal
7386.00	23.42	36.49	11.76	31.83	39.84	54.00	-14.16	Horizontal
9848.00	22.51	38.62	14.31	31.77	43.67	54.00	-10.33	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

#### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "\*", means this data is the too weak instrument of signal is unable to test.

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Test mode:		802.11n(H	IT20)	Test	channel:	Lowe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	50.13	31.79	8.62	32.10	58.44	74.00	-15.56	Vertical
7236.00	34.59	36.19	11.68	31.97	50.49	74.00	-23.51	Vertical
9648.00	32.90	38.07	14.16	31.56	53.57	74.00	-20.43	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	48.45	31.79	8.62	32.10	56.76	74.00	-17.24	Horizontal
7236.00	34.26	36.19	11.68	31.97	50.16	74.00	-23.84	Horizontal
9648.00	32.45	38.07	14.16	31.56	53.12	74.00	-20.88	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	38.91	31.79	8.62	32.10	47.22	54.00	-6.78	Vertical
7236.00	23.43	36.19	11.68	31.97	39.33	54.00	-14.67	Vertical
9648.00	23.23	38.07	14.16	31.56	43.90	54.00	-10.10	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	37.34	31.79	8.62	32.10	45.65	54.00	-8.35	Horizontal
7236.00	22.82	36.19	11.68	31.97	38.72	54.00	-15.28	Horizontal
9648.00	22.18	38.07	14.16	31.56	42.85	54.00	-11.15	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

#### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "\*", means this data is the too weak instrument of signal is unable to test.

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Test mode:		802.11n(H	IT20)	Test	t channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	49.06	31.85	8.66	32.12	57.45	74.00	-16.55	Vertical
7311.00	34.55	36.37	11.71	31.91	50.72	74.00	-23.28	Vertical
9748.00	33.85	38.27	14.25	31.56	54.81	74.00	-19.19	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	47.41	31.85	8.66	32.12	55.80	74.00	-18.20	Horizontal
7311.00	33.13	36.37	11.71	31.91	49.30	74.00	-24.70	Horizontal
9748.00	33.71	38.27	14.25	31.56	54.67	74.00	-19.33	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:		•					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.14	31.85	8.66	32.12	46.53	54.00	-7.47	Vertical
7311.00	22.85	36.37	11.71	31.91	39.02	54.00	-14.98	Vertical
9748.00	23.08	38.27	14.25	31.56	44.04	54.00	-9.96	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	36.56	31.85	8.66	32.12	44.95	54.00	-9.05	Horizontal
7311.00	22.20	36.37	11.71	31.91	38.37	54.00	-15.63	Horizontal
9748.00	23.41	38.27	14.25	31.56	44.37	54.00	-9.63	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

#### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "\*", means this data is the too weak instrument of signal is unable to test.

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Test mode:		802.11n(H	IT20)	Test	channel:	Highe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	54.50	31.90	8.70	32.15	62.95	74.00	-11.05	Vertical
7386.00	35.60	36.49	11.76	31.83	52.02	74.00	-21.98	Vertical
9848.00	37.41	38.62	14.31	31.77	58.57	74.00	-15.43	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	51.80	31.90	8.70	32.15	60.25	74.00	-13.75	Horizontal
7386.00	34.39	36.49	11.76	31.83	50.81	74.00	-23.19	Horizontal
9848.00	33.53	38.62	14.31	31.77	54.69	74.00	-19.31	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val				,				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	42.21	31.90	8.70	32.15	50.66	54.00	-3.34	Vertical
7386.00	25.49	36.49	11.76	31.83	41.91	54.00	-12.09	Vertical
9848.00	25.89	38.62	14.31	31.77	47.05	54.00	-6.95	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	40.59	31.90	8.70	32.15	49.04	54.00	-4.96	Horizontal
7386.00	23.76	36.49	11.76	31.83	40.18	54.00	-13.82	Horizontal
9848.00	22.77	38.62	14.31	31.77	43.93	54.00	-10.07	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

#### Remark:

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<sup>1</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

<sup>2 &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(HT40)			Test channel:			Lowe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4844.00	48.63	31.81	8.63	32.11		56.96	74.00		-17.04	Vertical
7266.00	33.64	36.28	11.69	31.94		49.67	74.00		-24.33	Vertical
9688.00	32.23	38.13	14.21	31.52		53.05	74.00		-20.95	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	47.19	31.81	8.63	32.11		55.52	74.	00	-18.48	Horizontal
7266.00	33.43	36.28	11.69	31.94		49.46	74.	00	-24.54	Horizontal
9688.00	31.82	38.13	14.21	31.52		52.64	74.	00	-21.36	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal
Average value:										

7110.490 14.								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	37.53	31.81	8.63	32.11	45.86	54.00	-8.14	Vertical
7266.00	22.52	36.28	11.69	31.94	38.55	54.00	-15.45	Vertical
9688.00	22.58	38.13	14.21	31.52	43.40	54.00	-10.60	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	36.16	31.81	8.63	32.11	44.49	54.00	-9.51	Horizontal
7266.00	22.02	36.28	11.69	31.94	38.05	54.00	-15.95	Horizontal
9688.00	21.58	38.13	14.21	31.52	42.40	54.00	-11.60	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT40)		Test channel:		Middle			
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4874.00	47.82	31.85	8.66	32.12		56.21	74.	00	-17.79	Vertical
7311.00	33.77	36.37	11.71	31.91		49.94	74.	00	-24.06	Vertical
9748.00	33.29	38.27	14.25	31.56		54.25	74.	00	-19.75	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	46.36	31.85	8.66	32.12		54.75	74.00		-19.25	Horizontal
7311.00	32.44	36.37	11.71	31.91		48.61	74.00		-25.39	Horizontal
9748.00	33.19	38.27	14.25	31.56		54.15	74.00		-19.85	Horizontal
12185.00	*						74.00			Horizontal
14622.00	*						74.	00		Horizontal
17059.00	*						74.	00		Horizontal
Average val										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor IB)	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	37.00	31.85	8.66	32	.12	45.39	54.	00	-8.61	Vertical
7311.00	22.09	36.37	11.71	31	.91	38.26	54.	00	-15.74	Vertical
9748.00	22.55	38.27	14.25	31	.56	43.51	54.	00	-10.49	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	35.58	31.85	8.66	32	.12	43.97	54.	00	-10.03	Horizontal
7311.00	21.54	36.37	11.71	31	.91	37.71	54.	00	-16.29	Horizontal
9748.00	22.91	38.27	14.25	31	.56	43.87	54.	00	-10.13	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*						54.	00		Horizontal

#### Remark:

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT40)	Те	st channel:	High	est		
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	i Levei	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4904.00	52.36	31.88	8.68	32.13	60.79	74.00	-13.21	Vertical	
7356.00	34.25	36.45	11.75	31.86	50.59	74.00	-23.41	Vertical	
9808.00	36.45	38.43	14.29	31.68	57.49	74.00	-16.51	Vertical	
12310.00	*					74.00		Vertical	
14772.00	*					74.00		Vertical	
17234.00	*					74.00		Vertical	
4904.00	49.99	31.88	8.68	32.13	58.42	74.00	-15.58	Horizontal	
7356.00	33.21	36.45	11.75	31.86	49.55	74.00	-24.45	Horizontal	
9808.00	32.64	38.43	14.29	31.68	53.68	74.00	-20.32	Horizontal	
12310.00	*					74.00		Horizontal	
14772.00	*					74.00		Horizontal	
17234.00	*					74.00		Horizontal	
Average val	ue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	i i evei	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4904.00	40.24	31.88	8.68	32.13	48.67	54.00	-5.33	Vertical	
7356.00	24.18	36.45	11.75	31.86	40.52	54.00	-13.48	Vertical	
9808.00	24.96	38.43	14.29	31.68	46.00	54.00	-8.00	Vertical	
12310.00	*					54.00		Vertical	
14772.00	*					54.00		Vertical	
17234.00	*					54.00		Vertical	
4904.00	38.90	31.88	8.68	32.13	47.33	54.00	-6.67	Horizontal	
7356.00	22.61	36.45	11.75	31.86	38.95	54.00	-15.05	Horizontal	
9808.00	21.91	38.43	14.29	31.68	42.95	54.00	-11.05	Horizontal	
12310.00	*					54.00		Horizontal	
14772.00	*					54.00		Horizontal	
17234.00	*					54.00		Horizontal	

#### Remark:

Shenzhen, China 518102

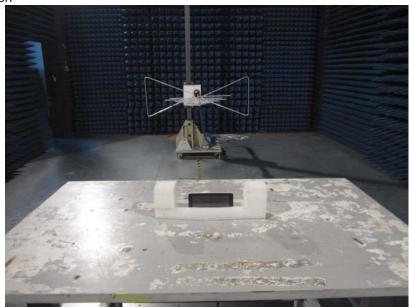
<sup>1</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

<sup>2 &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



# 8 Test Setup Photo

Radiated Emission





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# Conducted Emission





# 9 EUT Constructional Details











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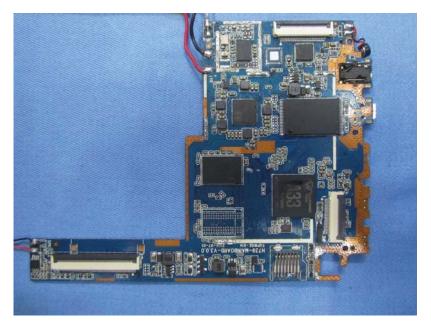




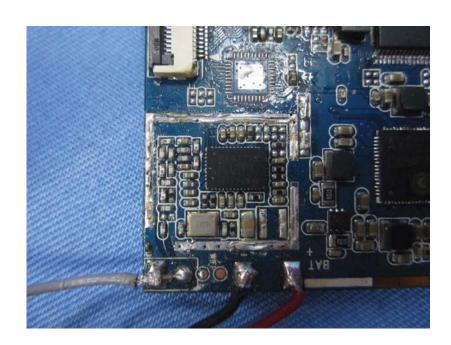
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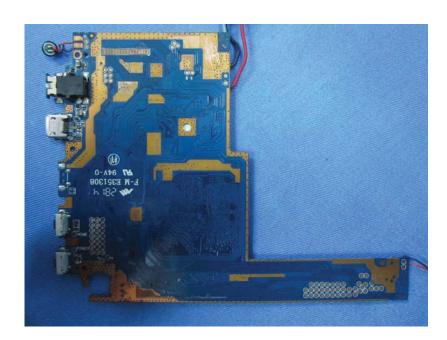














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