

# Global United Technology Services Co., Ltd.

Report No.: GTSE14090156201

# 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-MID7026B, GK-MID7026BL, GK-MID740, MiTraveler 740,

GK-MID720, MiTraveler 720, MiTraveler 710

Trade Mark:

FCC ID: ZVRMID7026B

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

Date of sample receipt: Sept.12, 2014

**Date of Test:** Sept.12-17, 2014

Date of report issued: Sept.18, 2014

Test Result: PASS \*

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

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.



#### Version 2

Version No.	Date	Description
00	Sept.18, 2014	Original

Prepared By:	Edward. Pan	Date:	Sept.18, 2014	
	Project Engineer	<u> </u>		_
	1 + 100			
Check By:	hank. yan	Date:	Sept.18, 2014	

Reviewer



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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.

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## **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

# 5.2 General Description of EUT

Product Name:	Tablet PC
Model No.:	GK-MID7026B, GK-MID7026BL, GK-MID740, MiTraveler 740, GK-MID720, MiTraveler 720, MiTraveler 710
Test model:	GK-MID7026B
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:	FPC Antenna
Antenna gain:	2dBi (declare by Applicant)
Power supply:	Input: DC 5V, 1500mA from adapter
	Or
	DC 3.7V, 2500mAh Li-ion Battery
Adapter Information:	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:

Toot channel	Frequency (MHz)				
Test 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 mode
-------------------	--

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

## 5.4 Description of Support Units

N/A

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

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## 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. 29 2014	Mar. 28 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	Jul. 01 2014	Jun 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	Jul. 01 2014	Jun. 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		

Gen	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 FPC antenna, the best case gain of the antenna is 2.0dBi



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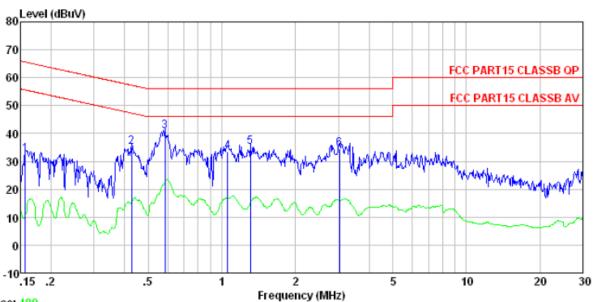
## 7.2 Conducted Emissions

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 (dBuV)  Quasi-peak  Average						
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
Table of a	* Decreases with the logarithm	n of the frequency.					
Test setup:	Reference Plane		•				
Tost procedure:	AUX Filter AC power  Equipment E.U.T  Test table/Insulation plane  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 a line impedance stabilization 50ohm/50uH coupling impe</li> </ol>	n network (L.I.S.N.). Th	nis provides a				
	<ol><li>The peripheral devices are LISN that provides a 50ohn termination. (Please refer to photographs).</li></ol>	n/50uH coupling imped	dance with 50ohm				
	3. 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 change according to ANSI C63.4: 2003 on conducted measurement.						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Pass						



### Measurement data

Line:



Trace: 480

Condition : FCC PART15 CLASSB QP LISN-2013 LINE

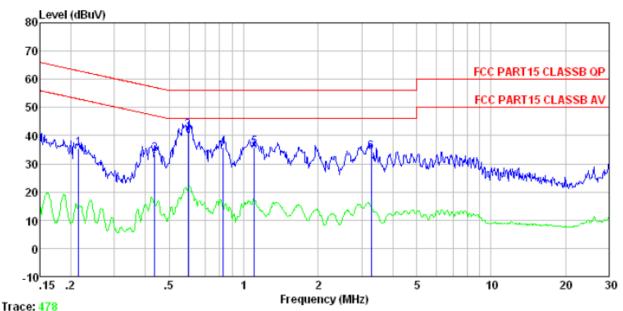
Job No. : 1562RF Test mode : WiFi mode Test Engineer: Mike

	Freq		LISN Factor					Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1 2 3 4 5 6	0. 428 0. 585 1. 054 1. 310	40.53 33.21 34.92	0.12	0.11 0.12 0.13 0.13	35. 13 40. 78 33. 48 35. 17	57. 29 56. 00 56. 00 56. 00	-22.16 -15.22 -22.52 -20.83	QP QP QP QP

Shenzhen, China 518102



#### Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 1562RF Test mode : WiFi mode Test Engineer: Mike

	Freq		LISN Factor					Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1 2 3	0.595	33.39 41.65	0.06 0.07	0.12	33.56 41.84	57.11 56.00	-23.55 -14.16	QP QP
4 5 6	1.106	35.51	0.07 0.08 0.13	0.13	35.72	56.00	-20.28	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 Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)				
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03				
Limit:	30dBm				
Test setup:	Power Meter  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		Output I	Limit(dBm)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesuit
Lowest	7.61	7.01	6.49	5.99		Pass
Middle	7.42	7.01	6.51	6.09	30.00	
Highest	7.26	7.01	6.53	6.02		

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## 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 Ba	Limit(KHz)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Lillin(IXI IZ)	Nesult
Lowest	10.107	16.396	17.598	36.421		Pass
Middle	9.873	16.420	17.587	35.315	>500	
Highest	10.402	16.400	17.623	35.259		

## Test plot as follows:

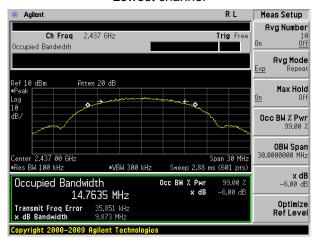
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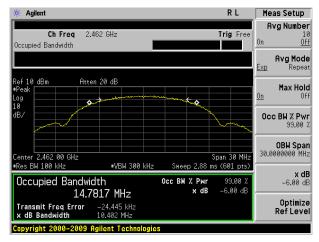
Test mode: 802.11b



#### Lowest channel



#### Middle channel

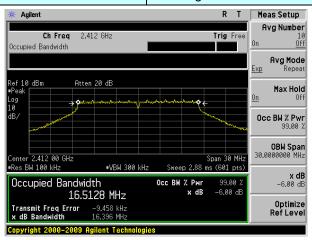


Highest channel

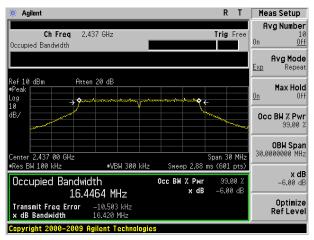
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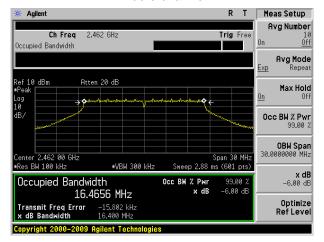
Test mode: 802.11g



#### Lowest channel



#### Middle channel

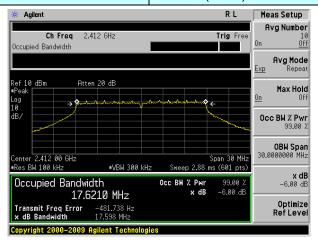


Highest channel

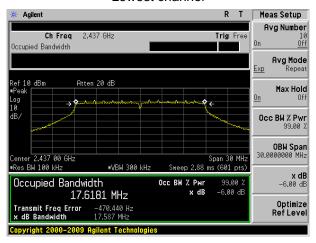
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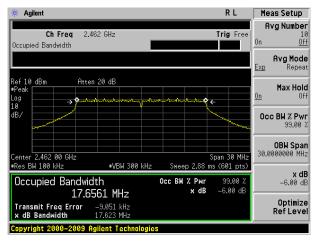
Test mode: 802.11n(HT20)



#### Lowest channel



#### Middle channel



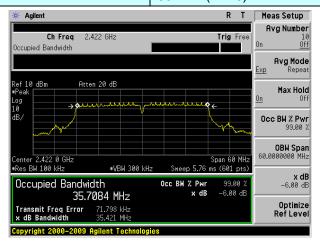
Highest channel

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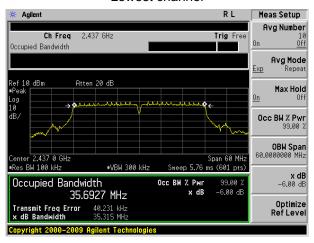


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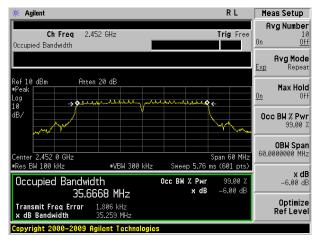
Test mode: 802.11n(HT40)



#### Lowest channel



#### Middle channel



Highest channel



# 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**

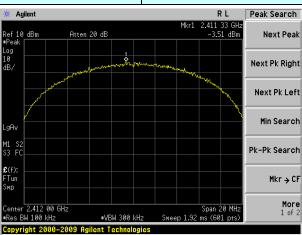
Test CH		Power Spectra	I Density (dBm)	Limit(dBm/3kHz)	Result	
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	LIIIII((dBIII/3KI IZ)	Nesuit
Lowest	-3.51	-7.58	-8.08	-10.13		Pass
Middle	-4.62	-7.61	-8.02	-10.92	8.00	
Highest	-4.14	-7.64	-7.85	-10.70		



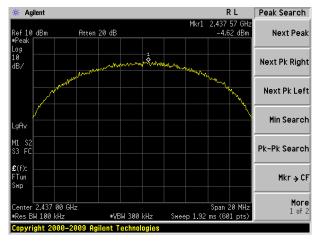
Project No.: GTSE140901562RF

## Test plot as follows:

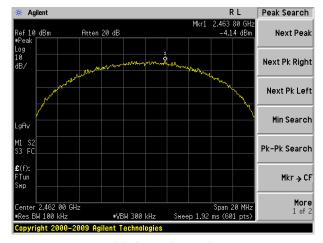
Test mode: 802.11b



#### Lowest channel



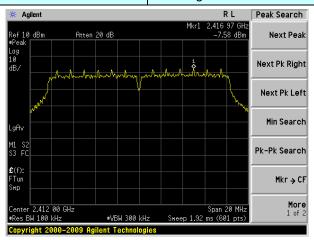
### Middle channel



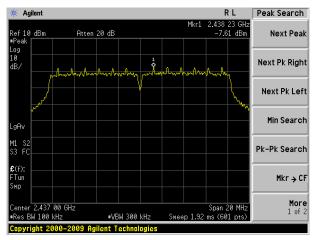
Highest channel



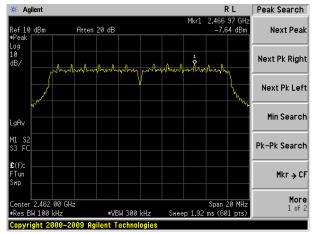
Test mode: 802.11g



#### Lowest channel



## Middle channel

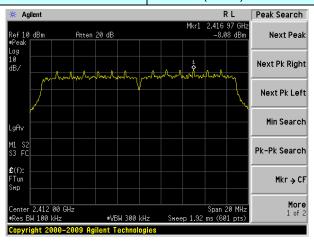


Highest channel

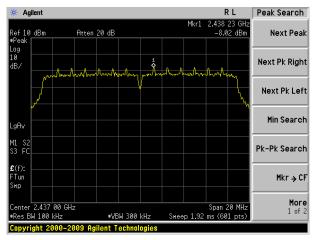
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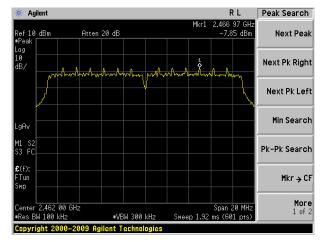
Test mode: 802.11n(HT20)



#### Lowest channel



#### Middle channel

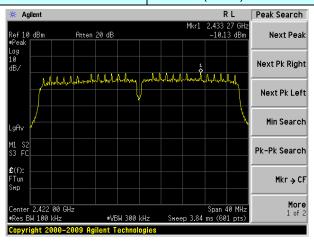


Highest channel

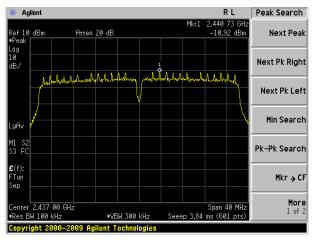
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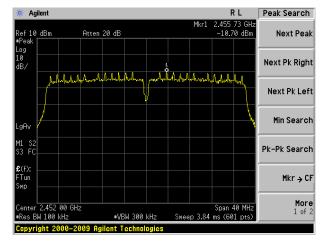
Test mode: 802.11n(HT40)



#### Lowest channel



#### Middle channel



Highest channel



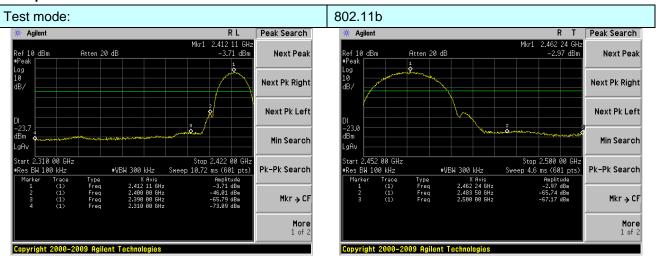
# 7.6 Band edges

## 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 30 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				



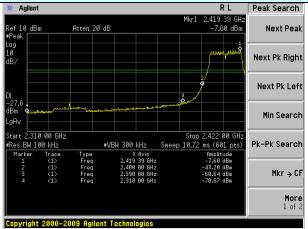
## Test plot as follows:



Lowest channel

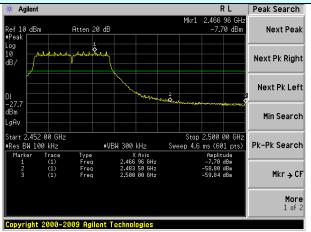
Highest channel

# Test mode:



Lowest channel

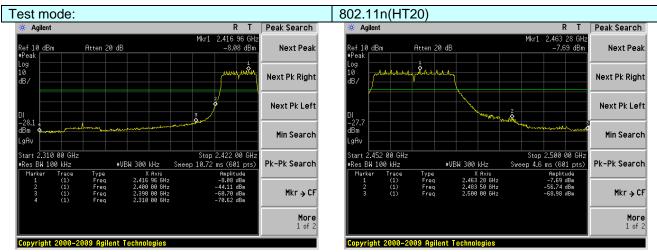
## 802.11g



Highest channel

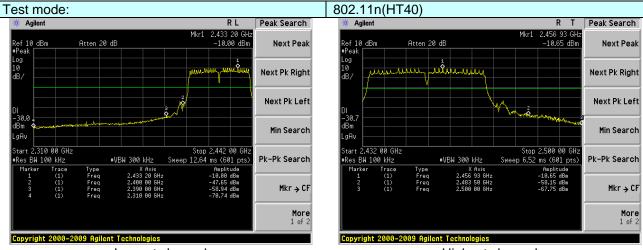
Shenzhen, China 518102





Lowest channel

Highest channel



Lowest channel

Highest channel

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



## 7.6.2 Radiated Emission Method

Tool Demilion	F00 D=#45 0 0	) 4E 000	and 45 005				
Test Requirement:	FCC Part15 C Section 15.209 and 15.205						
Test Method:	ANSI C63.4: 20		4 a 4 a 4 a 4 a 4 a 4 a 4 a 4 a 4 a 4 a	41			
Test Frequency Range:	2500MHz) data	was showed.	tested, only	tne worst b	and's (2390MHz to		
Test site:	Measurement D	istance: 3m					
Receiver setup:	Frequency	Detector	RBW	VBW	Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak		
	Above 1GHZ	RMS	1MHz	3MHz	Average		
Limit:	Freque	ncy	Limit (dBuV/	/m @3m)	Value		
	Above 1	CU-7	54.0	0	Average		
	Above I	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 turned 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	49.96	27.59	5.38	30.18	52.75	74.00	-21.25	Horizontal
2400.00	58.41	27.58	5.39	30.18	61.20	74.00	-12.80	Horizontal
2390.00	51.52	27.59	5.38	30.18	54.31	74.00	-19.69	Vertical
2400.00	59.75	27.58	5.39	30.18	62.54	74.00	-11.46	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	37.21	27.59	5.38	30.18	40.00	54.00	-14.00	Horizontal
2400.00	45.32	27.58	5.39	30.18	48.11	54.00	-5.89	Horizontal
2390.00	38.89	27.59	5.38	30.18	41.68	54.00	-12.32	Vertical
2400.00	46.31	27.58	5.39	30.18	49.10	54.00	-4.90	Vertical

Test 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	49.89	27.53	5.47	29.93	52.96	74.00	-21.04	Horizontal
2500.00	46.26	27.55	5.49	29.93	49.37	74.00	-24.63	Horizontal
2483.50	51.80	27.53	5.47	29.93	54.87	74.00	-19.13	Vertical
2500.00	48.45	27.55	5.49	29.93	51.56	74.00	-22.44	Vertical

## Average value:

7.101.490 14.140.								
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	37.32	27.53	5.47	29.93	40.39	54.00	-13.61	Horizontal
2500.00	33.74	27.55	5.49	29.93	36.85	54.00	-17.15	Horizontal
2483.50	39.11	27.53	5.47	29.93	42.18	54.00	-11.82	Vertical
2500.00	35.56	27.55	5.49	29.93	38.67	54.00	-15.33	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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Shenzhen, China 518102

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Test mode:		802.1	1g	Te	est channel:	I	_owest	
Peak value:		<u>'</u>		·		<b>'</b>		
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	49.20	27.59	5.38	30.18	51.99	74.00	-22.01	Horizontal
2400.00	57.39	27.58	5.39	30.18	60.18	74.00	-13.82	Horizontal
2390.00	50.71	27.59	5.38	30.18	53.50	74.00	-20.50	Vertical
2400.00	58.53	27.58	5.39	30.18	61.32	74.00	-12.68	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	36.67	27.59	5.38	30.18	39.46	54.00	-14.54	Horizontal
2400.00	44.70	27.58	5.39	30.18	47.49	54.00	-6.51	Horizontal
2390.00	38.29	27.59	5.38	30.18	41.08	54.00	-12.92	Vertical
2400.00	45.63	27.58	5.39	30.18	48.42	54.00	-5.58	Vertical
Test mode:		802.1	1g	Te	est channel:	ŀ	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	48.81	27.53	5.47	29.93	51.88	74.00	-22.12	Horizontal
2500.00	45.42	27.55	5.49	29.93	48.53	74.00	-25.47	Horizontal
2483.50	50.56	27.53	5.47	29.93	53.63	74.00	-20.37	Vertical
2500.00	47.47	27.55	5.49	29.93	50.58	74.00	-23.42	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	36.66	27.53	5.47	29.93	39.73	54.00	-14.27	Horizontal
2500.00	33.23	27.55	5.49	29.93	36.34	54.00	-17.66	Horizontal
2483.50	38.39	27.53	5.47	29.93	41.46	54.00	-12.54	Vertical
2500.00	35.01	27.55	5.49	29.93	38.12	54.00	-15.88	Vertical
Remark:								<u></u>

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Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

The emission levels of other frequencies are very lower than the limit and not show in test report.

Shenzhen, China 518102



Test mode:

Report No.: GTSE14090156201

Lowest

Peak value	:	<u>'</u>		,		•		
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	49.52	27.59	5.38	30.18	52.31	74.00	-21.69	Horizontal
2400.00	57.82	27.58	5.39	30.18	60.61	74.00	-13.39	Horizontal
2390.00	51.05	27.59	5.38	30.18	53.84	74.00	-20.16	Vertical
2400.00	59.04	27.58	5.39	30.18	61.83	74.00	-12.17	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	36.90	27.59	5.38	30.18	39.69	54.00	-14.31	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	45.92	27.58	5.39	30.18	48.71	54.00	-5.29	Vertical
Test mode:		802.1	1n(HT20)	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	49.26	27.53	5.47	29.93	52.33	74.00	-21.67	Horizontal
2500.00	45.77	27.55	5.49	29.93	48.88	74.00	-25.12	Horizontal
2483.50	51.09	27.53	5.47	29.93	54.16	74.00	-19.84	Vertical
2500.00	47.88	27.55	5.49	29.93	50.99	74.00	-23.01	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	36.94	27.53	5.47	29.93	40.01	54.00	-13.99	Horizontal
					1	1		
2500.00	33.45	27.55	5.49	29.93	36.56	54.00	-17.44	Horizontal
2500.00 2483.50	33.45 38.69	27.55 27.53	5.49 5.47	29.93 29.93	36.56 41.76	54.00 54.00	-17.44 -12.24	Horizontal Vertical

Test channel:

802.11n(HT20)

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Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

The emission levels of other frequencies are very lower than the limit and not show in test report.

Shenzhen, China 518102

1.



Test mode:

Report No.: GTSE14090156201

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	48.43	27.59	5.38	30.18	51.22	74.00	-22.78	Horizontal
2400.00	56.37	27.58	5.39	30.18	59.16	74.00	-14.84	Horizontal
2390.00	49.89	27.59	5.38	30.18	52.68	74.00	-21.32	Vertical
2400.00	57.30	27.58	5.39	30.18	60.09	74.00	-13.91	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	36.12	27.59	5.38	30.18	38.91	54.00	-15.09	Horizontal
2400.00	44.07	27.58	5.39	30.18	46.86	54.00	-7.14	Horizontal
2390.00	37.68	27.59	5.38	30.18	40.47	54.00	-13.53	Vertical
2400.00	44.94	27.58	5.39	30.18	47.73	54.00	-6.27	Vertical
		•		•	•			•
Test mode:		802.1	1n(HT40)	Te	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	47.71	27.53	5.47	29.93	50.78	74.00	-23.22	Horizontal
2500.00	44.57	27.55	5.49	29.93	47.68	74.00	-26.32	Horizontal
2483.50	49.31	27.53	5.47	29.93	52.38	74.00	-21.62	Vertical
2500.00	46.47	27.55	5.49	29.93	49.58	74.00	-24.42	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	36.00	27.53	5.47	29.93	39.07	54.00	-14.93	Horizontal
2500.00	32.71	27.55	5.49	29.93	35.82	54.00	-18.18	Horizontal
2483.50	37.66	27.53	5.47	29.93	40.73	54.00	-13.27	Vertical
2500.00	34.47	27.55	5.49	29.93	37.58	54.00	-16.42	Vertical
Remark:			-	-	-	-		

Test channel:

802.11n(HT40)

Remark.

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Shenzhen, China 518102

<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.



Project No.: GTSE140901562RF

# 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				

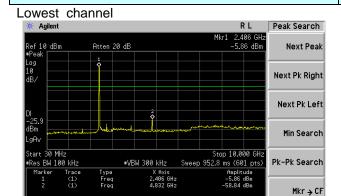


### Test plot as follows:

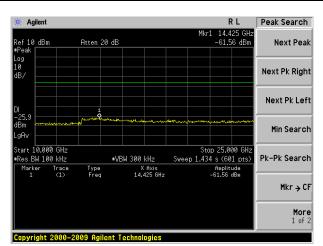
### Test mode:

## 802.11b

More 1 of 2

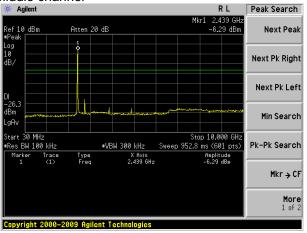


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30MHz~10GHz

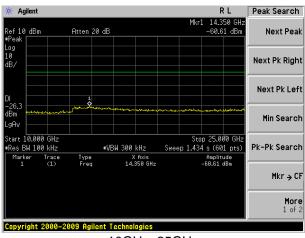


10GHz~25GHz

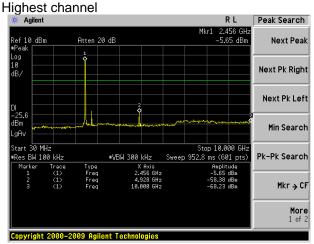
#### Middle channel



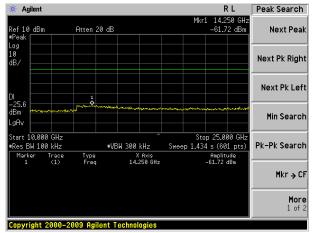
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



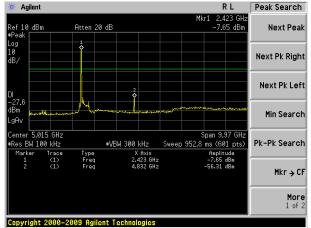
10GHz~25GHz



#### Test mode:

## 802.11g



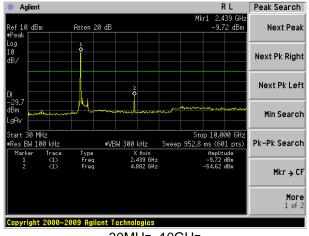


30MHz~10GHz

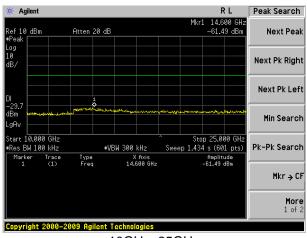
## 

10GHz~25GHz

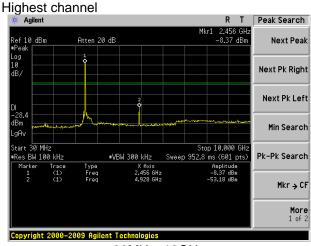
#### Middle channel



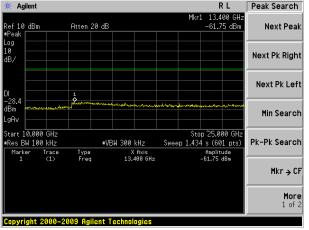
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz



R L

Peak Search

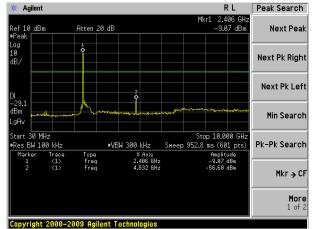
More 1 of 2

#### Test mode:

### 802.11n(HT20)

🗰 Agilent

#### Lowest channel



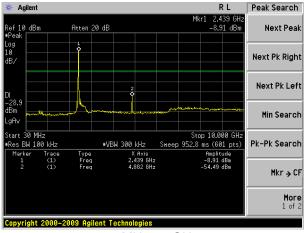
30MHz~10GHz

## 

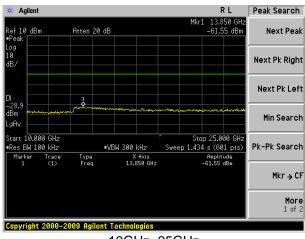
10GHz~25GHz

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## Middle channel

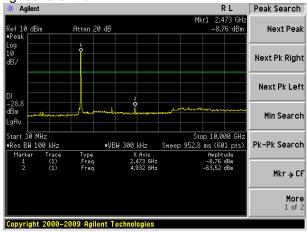


30MHz~10GHz

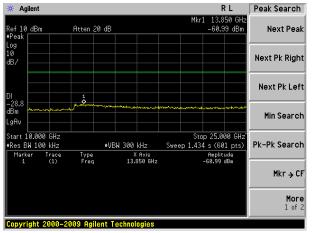


10GHz~25GHz





30MHz~10GHz



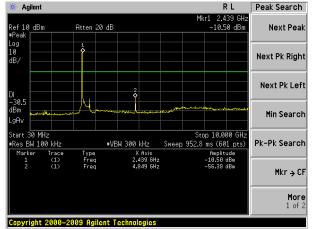
10GHz~25GHz



#### Test mode:

### 802.11n(HT40)

#### Lowest channel

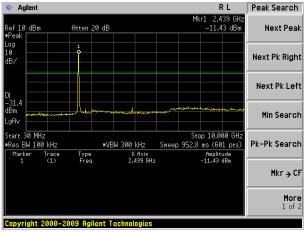


30MHz~10GHz

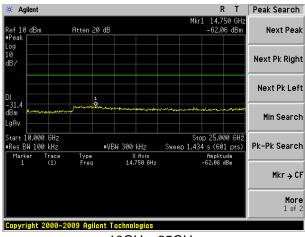
#### \* Agilent Peak Search 14.450 GHz -61.65 dBm Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search Center 17.500 GHz •Res BW 100 kHz Span 15 GH: Sweep 1.434 s (601 pts #VBW 300 kHz Pk-Pk Search X Axis 14.450 GHz -61.65 dBm Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

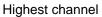
## Middle channel

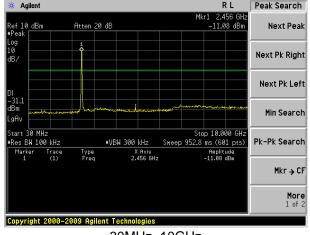


30MHz~10GHz

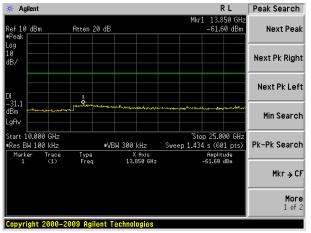


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



## 7.7.2 Radiated Emission Method

ANSI C63.4: 200										
30MHz to 25GHz										
301VII 12 to 2301 12	30MHz to 25GHz									
Measurement Dis	Measurement Distance: 3m  Frequency Detector RBW VBW Value									
Frequency										
30MHz-1GHz	' '									
Abovo 1GHz	Above 1GHz Peak 1MHz 3MHz Peak									
Above 1G112	RMS	1MHz	3MHz	Average						
Frequen	icy l	_imit (dBuV/	/m @3m)	Value						
30MHz-88	MHz	40.0	0	Quasi-peak						
88MHz-216	6MHz	43.5	0	Quasi-peak						
216MHz-96	0MHz	46.0	0	Quasi-peak						
960MHz-1	GHz	54.0	0	Quasi-peak						
Above 16	`U-	54.0	0	Average						
Above 10	סחב	74.0	0	Peak						
Tum 7.8m 7.8m 7.8m 7.8m 7.8m 7.8m 7.8m 7.8	Above 1GHz  Antenna Tower  Horn Antenna  Spectrum									
	30MHz-1GHz  Above 1GHz  Frequen 30MHz-88 88MHz-216 216MHz-96 960MHz-1 Above 1C  Below 1GHz  Ground Plane  Above 1GHz	30MHz-1GHz Quasi-peak Peak RMS  Frequency 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz  Below 1GHz  Below 1GHz  Below 1GHz  Above 1GHz	30MHz-1GHz Quasi-peak 120KHz Above 1GHz Peak 1MHz RMS 1MHz RMS 1MHz Frequency Limit (dBuV/ 30MHz-88MHz 40.0 88MHz-216MHz 43.5 216MHz-960MHz 46.0 960MHz-1GHz 54.0 Above 1GHz  Below 1GHz  Below 1GHz  Above 1GHz  Above 1GHz	30MHz-1GHz Quasi-peak 120KHz 300KHz Above 1GHz Peak 1MHz 3MHz RMS 1MHz 3MHz  Frequency Limit (dBuV/m @3m)  30MHz-88MHz 40.00  88MHz-216MHz 43.50  216MHz-960MHz 46.00  960MHz-1GHz 54.00  Above 1GHz 74.00  Below 1GHz  Antenna Tower  Antenna Tower  Antenna Tower  Antenna Tower  Horn Antenna						

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102



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.
	2. 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
37.155	43.53	14.87	0.63	32.06	26.97	40.00	-13.03	Vertical
115.726	47.10	13.21	1.33	31.84	29.80	43.50	-13.70	Vertical
226.099	52.64	13.46	1.99	32.15	35.94	46.00	-10.06	Vertical
239.987	55.43	14.09	2.07	32.16	39.43	46.00	-6.57	Vertical
314.377	46.99	15.26	2.44	32.13	32.56	46.00	-13.44	Vertical
504.706	45.83	18.68	3.33	31.53	36.31	46.00	-9.69	Vertical
85.598	47.63	12.60	1.07	31.74	29.56	40.00	-10.44	Horizontal
115.726	51.78	13.21	1.33	31.84	34.48	43.50	-9.02	Horizontal
229.293	59.51	13.62	2.01	32.15	42.99	46.00	-3.01	Horizontal
345.595	55.13	16.20	2.60	32.04	41.89	46.00	-4.11	Horizontal
502.940	50.02	18.63	3.32	31.54	40.43	46.00	-5.57	Horizontal
827.493	46.21	22.37	4.57	31.28	41.87	46.00	-4.13	Horizontal



## ■ Above 1GHz

Test mode:	de: 802.11b Test		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	38.28	31.79	8.62	32.10	46.59	74.00	-27.41	Vertical
7236.00	32.95	36.19	11.68	31.97	48.85	74.00	-25.15	Vertical
9648.00	31.81	38.07	14.16	31.56	52.48	74.00	-21.52	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	37.27	31.79	8.62	32.10	45.58	74.00	-28.42	Horizontal
7236.00	32.86	36.19	11.68	31.97	48.76	74.00	-25.24	Horizontal
9648.00	31.45	38.07	14.16	31.56	52.12	74.00	-21.88	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	27.53	31.79	8.62	32.10	35.84	54.00	-18.16	Vertical
7236.00	21.86	36.19	11.68	31.97	37.76	54.00	-16.24	Vertical
9648.00	22.19	38.07	14.16	31.56	42.86	54.00	-11.14	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	26.91	31.79	8.62	32.10	35.22	54.00	-18.78	Horizontal
7236.00	21.47	36.19	11.68	31.97	37.37	54.00	-16.63	Horizontal
9648.00	21.23	38.07	14.16	31.56	41.90	54.00	-12.10	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					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.



Test mode:		802.11b		Te	est channel:	Mid	dle	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)		Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	37.69	31.85	8.66	32.12	46.08	74.00	-27.92	Vertical
7311.00	33.24	36.37	11.71	31.91	49.41	74.00	-24.59	Vertical
9748.00	32.98	38.27	14.25	31.56	53.94	74.00	-20.06	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	38.43	31.85	8.66	32.12	46.82	74.00	-27.18	Horizontal
7311.00	32.01	36.37	11.71	31.91	48.18	74.00	-25.82	Horizontal
9748.00	32.93	38.27	14.25	31.56	53.89	74.00	-20.11	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 Facto (dB)	.     0//01	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	28.67	31.85	8.66	32.12	37.06	54.00	-16.94	Vertical
7311.00	21.59	36.37	11.71	31.91	37.76	54.00	-16.24	Vertical
9748.00	22.26	38.27	14.25	31.56	43.22	54.00	-10.78	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	28.62	31.85	8.66	32.12	37.01	54.00	-16.99	Horizontal
7311.00	21.13	36.37	11.71	31.91	37.30	54.00	-16.70	Horizontal
9748.00	22.67	38.27	14.25	31.56	43.63	54.00	-10.37	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*	_				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.



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	42.02	31.90	8.70	32.15	50.47	74.00	-23.53	Vertical
7386.00	33.15	36.49	11.76	31.83	49.57	74.00	-24.43	Vertical
9848.00	35.73	38.62	14.31	31.77	56.89	74.00	-17.11	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	41.77	31.90	8.70	32.15	50.22	74.00	-23.78	Horizontal
7386.00	32.28	36.49	11.76	31.83	48.70	74.00	-25.30	Horizontal
9848.00	32.00	38.62	14.31	31.77	53.16	74.00	-20.84	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	33.15	31.90	8.70	32.15	41.60	54.00	-12.40	Vertical
7386.00	23.13	36.49	11.76	31.83	39.55	54.00	-14.45	Vertical
9848.00	24.29	38.62	14.31	31.77	45.45	54.00	-8.55	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	32.28	31.90	8.70	32.15	40.73	54.00	-13.27	Horizontal
7386.00	21.72	36.49	11.76	31.83	38.14	54.00	-15.86	Horizontal
9848.00	21.31	38.62	14.31	31.77	42.47	54.00	-11.53	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.



Test mode:		802.11g		Te	st channel:	lowe	st	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	1 1 4//41	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	37.11	31.79	8.62	32.10	45.42	74.00	-28.58	Vertical
7236.00	32.21	36.19	11.68	31.97	48.11	74.00	-25.89	Vertical
9648.00	31.28	38.07	14.16	31.56	51.95	74.00	-22.05	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	36.28	31.79	8.62	32.10	44.59	74.00	-29.41	Horizontal
7236.00	32.21	36.19	11.68	31.97	48.11	74.00	-25.89	Horizontal
9648.00	30.97	38.07	14.16	31.56	51.64	74.00	-22.36	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)	1 4//41	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	26.44	31.79	8.62	32.10	34.75	54.00	-19.25	Vertical
7236.00	21.14	36.19	11.68	31.97	37.04	54.00	-16.96	Vertical
9648.00	21.68	38.07	14.16	31.56	42.35	54.00	-11.65	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	25.98	31.79	8.62	32.10	34.29	54.00	-19.71	Horizontal
7236.00	20.84	36.19	11.68	31.97	36.74	54.00	-17.26	Horizontal
9648.00	20.76	38.07	14.16	31.56	41.43	54.00	-12.57	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					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.



Test mode:		802.11g		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	36.72	31.85	8.66	32.12	45.11	74.00	-28.89	Vertical
7311.00	32.63	36.37	11.71	31.91	48.80	74.00	-25.20	Vertical
9748.00	32.54	38.27	14.25	31.56	53.50	74.00	-20.50	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	37.61	31.85	8.66	32.12	46.00	74.00	-28.00	Horizontal
7311.00	31.48	36.37	11.71	31.91	47.65	74.00	-26.35	Horizontal
9748.00	32.52	38.27	14.25	31.56	53.48	74.00	-20.52	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	27.78	31.85	8.66	32.12	36.17	54.00	-17.83	Vertical
7311.00	21.00	36.37	11.71	31.91	37.17	54.00	-16.83	Vertical
9748.00	21.84	38.27	14.25	31.56	42.80	54.00	-11.20	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	27.86	31.85	8.66	32.12	36.25	54.00	-17.75	Horizontal
7311.00	20.61	36.37	11.71	31.91	36.78	54.00	-17.22	Horizontal
9748.00	22.28	38.27	14.25	31.56	43.24	54.00	-10.76	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					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.



Test mode:		802.11g		Tes	t 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	40.34	31.90	8.70	32.15	48.79	74.00	-25.21	Vertical
7386.00	32.10	36.49	11.76	31.83	48.52	74.00	-25.48	Vertical
9848.00	34.98	38.62	14.31	31.77	56.14	74.00	-17.86	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	40.36	31.90	8.70	32.15	48.81	74.00	-25.19	Horizontal
7386.00	31.36	36.49	11.76	31.83	47.78	74.00	-26.22	Horizontal
9848.00	31.31	38.62	14.31	31.77	52.47	74.00	-21.53	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	31.61	31.90	8.70	32.15	40.06	54.00	-13.94	Vertical
7386.00	22.11	36.49	11.76	31.83	38.53	54.00	-15.47	Vertical
9848.00	23.56	38.62	14.31	31.77	44.72	54.00	-9.28	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	30.96	31.90	8.70	32.15	39.41	54.00	-14.59	Horizontal
7386.00	20.82	36.49	11.76	31.83	37.24	54.00	-16.76	Horizontal
9848.00	20.64	38.62	14.31	31.77	41.80	54.00	-12.20	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.



Test mode:		802.11n(H	IT20)	T	Test c	hannel:		Lowe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4824.00	37.71	31.79	8.62	32.1	0	46.02	74.0	00	-27.98	Vertical
7236.00	32.59	36.19	11.68	31.9	7	48.49	74.0	00	-25.51	Vertical
9648.00	31.55	38.07	14.16	31.5	6	52.22	74.0	00	-21.78	Vertical
12060.00	*						74.0	00		Vertical
14472.00	*						74.0	00		Vertical
16884.00	*						74.0	00		Vertical
4824.00	36.79	31.79	8.62	32.1	0	45.10	74.0	00	-28.90	Horizontal
7236.00	32.54	36.19	11.68	31.9	7	48.44	74.0	00	-25.56	Horizontal
9648.00	31.22	38.07	14.16	31.5	6	51.89	74.0	00	-22.11	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)	Prear Facto (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4824.00	27.00	31.79	8.62	32.1	0	35.31	54.0	00	-18.69	Vertical
7236.00	21.51	36.19	11.68	31.9	7	37.41	54.0	00	-16.59	Vertical
9648.00	21.94	38.07	14.16	31.5	6	42.61	54.0	00	-11.39	Vertical
12060.00	*						54.0	00		Vertical
14472.00	*						54.0	00		Vertical
16884.00	*						54.0	00		Vertical
4824.00	26.46	31.79	8.62	32.1	0	34.77	54.0	00	-19.23	Horizontal
7236.00	21.17	36.19	11.68	31.9	7	37.07	54.0	00	-16.93	Horizontal
9648.00	21.00	38.07	14.16	31.5	6	41.67	54.0	00	-12.33	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.

Shenzhen, China 518102



Test mode:		802.11n(H	T20)	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	37.22	31.85	8.66	32.12	45.61	74.00	-28.39	Vertical
7311.00	32.94	36.37	11.71	31.91	49.11	74.00	-24.89	Vertical
9748.00	32.77	38.27	14.25	31.56	53.73	74.00	-20.27	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	38.03	31.85	8.66	32.12	46.42	74.00	-27.58	Horizontal
7311.00	31.75	36.37	11.71	31.91	47.92	74.00	-26.08	Horizontal
9748.00	32.73	38.27	14.25	31.56	53.69	74.00	-20.31	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	28.24	31.85	8.66	32.12	36.63	54.00	-17.37	Vertical
7311.00	21.30	36.37	11.71	31.91	37.47	54.00	-16.53	Vertical
9748.00	22.06	38.27	14.25	31.56	43.02	54.00	-10.98	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	28.25	31.85	8.66	32.12	36.64	54.00	-17.36	Horizontal
7311.00	20.87	36.37	11.71	31.91	37.04	54.00	-16.96	Horizontal
9748.00	22.48	38.27	14.25	31.56	43.44	54.00	-10.56	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					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.



Test mode:		802.11n(H	IT20)	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	41.20	31.90	8.70	32.15	49.65	74.00	-24.35	Vertical
7386.00	32.64	36.49	11.76	31.83	49.06	74.00	-24.94	Vertical
9848.00	35.37	38.62	14.31	31.77	56.53	74.00	-17.47	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	41.08	31.90	8.70	32.15	49.53	74.00	-24.47	Horizontal
7386.00	31.83	36.49	11.76	31.83	48.25	74.00	-25.75	Horizontal
9848.00	31.67	38.62	14.31	31.77	52.83	74.00	-21.17	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	32.41	31.90	8.70	32.15	40.86	54.00	-13.14	Vertical
7386.00	22.64	36.49	11.76	31.83	39.06	54.00	-14.94	Vertical
9848.00	23.94	38.62	14.31	31.77	45.10	54.00	-8.90	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	31.64	31.90	8.70	32.15	40.09	54.00	-13.91	Horizontal
7386.00	21.28	36.49	11.76	31.83	37.70	54.00	-16.30	Horizontal
9848.00	20.98	38.62	14.31	31.77	42.14	54.00	-11.86	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					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)	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
4844.00	36.23	31.81	8.63	32.11	44.56	74.00	-29.44	Vertical
7266.00	31.65	36.28	11.69	31.94	47.68	74.00	-26.32	Vertical
9688.00	30.88	38.13	14.21	31.52	51.70	74.00	-22.30	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	35.53	31.81	8.63	32.11	43.86	74.00	-30.14	Horizontal
7266.00	31.72	36.28	11.69	31.94	47.75	74.00	-26.25	Horizontal
9688.00	30.60	38.13	14.21	31.52	51.42	74.00	-22.58	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	шо:	•	•	•		•	•	•

## Average value:

5								
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	25.63	31.81	8.63	32.11	33.96	54.00	-20.04	Vertical
7266.00	20.60	36.28	11.69	31.94	36.63	54.00	-17.37	Vertical
9688.00	21.30	38.13	14.21	31.52	42.12	54.00	-11.88	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	25.28	31.81	8.63	32.11	33.61	54.00	-20.39	Horizontal
7266.00	20.37	36.28	11.69	31.94	36.40	54.00	-17.60	Horizontal
9688.00	20.41	38.13	14.21	31.52	41.23	54.00	-12.77	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(HT40)			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	35.99	31.85	8.66	32	2.12	44.38	74.00		-29.62	Vertical
7311.00	32.16	36.37	11.71	31	.91	48.33	74.00		-25.67	Vertical
9748.00	32.21	38.27	14.25	31	.56	53.17	74.00		-20.83	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	36.99	31.85	8.66	32	2.12	45.38	74.00		-28.62	Horizontal
7311.00	31.07	36.37	11.71	31	.91	47.24	74.00		-26.76	Horizontal
9748.00	32.22	38.27	14.25	31.56		53.18	74.00		-20.82	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)	Fa	eamp ctor dB)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4874.00	27.10	31.85	8.66	32	2.12	35.49	54.	00	-18.51	Vertical
7311.00	20.55	36.37	11.71	31	.91	36.72	54.	00	-17.28	Vertical
9748.00	21.53	38.27	14.25	31	.56	42.49	54.	00	-11.51	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	27.28	31.85	8.66	32.12		35.67	54.	00	-18.33	Horizontal
7311.00	20.22	36.37	11.71	31	.91	36.39	54.	00	-17.61	Horizontal
9748.00	21.99	38.27	14.25	31	.56	42.95	54.	00	-11.05	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: 802.11		802.11n(H	IT40)	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
4904.00	39.08	31.88	8.68	32.13	47.51	74.00	-26.49	Vertical
7356.00	31.30	36.45	11.75	31.86	47.64	74.00	-26.36	Vertical
9808.00	34.41	38.43	14.29	31.68	55.45	74.00	-18.55	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	39.29	31.88	8.68	32.13	47.72	74.00	-26.28	Horizontal
7356.00	30.66	36.45	11.75	31.86	47.00	74.00	-27.00	Horizontal
9808.00	30.78	38.43	14.29	31.68	51.82	74.00	-22.18	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
4904.00	30.45	31.88	8.68	32.13	38.88	54.00	-15.12	Vertical
7356.00	21.34	36.45	11.75	31.86	37.68	54.00	-16.32	Vertical
9808.00	23.02	38.43	14.29	31.68	44.06	54.00	-9.94	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	29.96	31.88	8.68	32.13	38.39	54.00	-15.61	Horizontal
7356.00	20.15	36.45	11.75	31.86	36.49	54.00	-17.51	Horizontal
9808.00	20.13	38.43	14.29	31.68	41.17	54.00	-12.83	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*	_				54.00		Horizontal

## Remark:

Shenzhen, China 518102

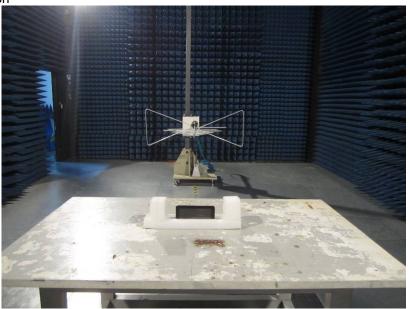
<sup>1</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

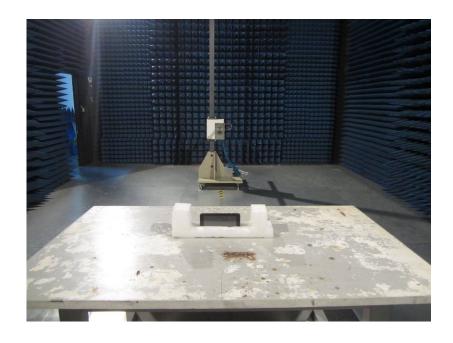
<sup>2 &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



# 8 Test Setup Photo

Radiated Emission





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



## Conducted Emission



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



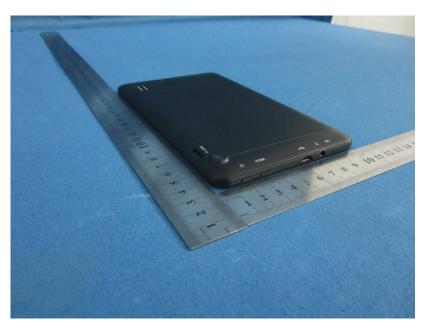
## 9 EUT Constructional Details





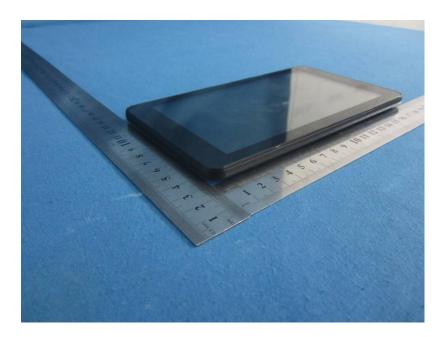






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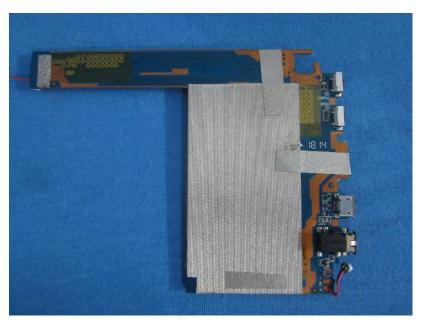


















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