

# Global United Technology Services Co., Ltd.

Report No.: GTSE14020011202

# FCC Report

NEG TECHNOLOGY CO., LIMITED Applicant:

Address of Applicant: Rm 1406, Block B, Jinsejiari, Jingtian south road, Futian

district, Shenzhen, China

**Equipment Under Test (EUT)** 

**Product Name:** Mobile Phone

Model No.: F2020

Trade Mark: **OWN** 

FCC ID: 2AAZ8-F2020

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

February 14, 2014 Date of sample receipt:

Date of Test: February 14-20, 2014

Date of report issued: February 20, 2014

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.

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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	February 20, 2014	Original

Prepared By:	hank yan.	Date:	February 20, 2014
	Project Engineer		
Check By:	Homs. Hu	Date:	February 20, 2014
	Poviowor		·



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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:	NEG TECHNOLOGY CO., LIMITED
Address of Applicant:	Rm 1406, Block B, Jinsejiari, Jingtian south road, Futian district, Shenzhen, China
Manufacturer:	XINYUANTONG
Address of Manufacturer:	Rm 201, Yuetong B Building, Minzhi Road, Baoan District, Shenzhen City

## 5.2 General Description of EUT

Product Name:	Mobile Phone	
Model No.:	F2020	
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:	Integral antenna	
Antenna gain:	-1.4dBi (declare by Applicant)	
Power supply:	Model No.: UT-OB-0106A	
	Input: AC 100-240V, 50/60Hz, 0.15A	
	Output: DC 5.0V, 0.5A	
	DC 3.7V Li-ion Battery	



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 chamier	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	802.11b 802.11g		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

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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 2013	Mar. 28 2014		
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	Dec. 5, 2013	Dec. 4 2014		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 02 2013	Jul. 01 2014		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 24 2013	Feb. 23 2014		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 28 2013	June 27 2014		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 29 2013	Mar. 28 2014		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 30 2013	Mar. 29 2014		
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 30 2013	Mar. 29 2014		
11	Coaxial cable	GTS	N/A	GTS210	Mar. 30 2013	Mar. 29 2014		
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 30 2013	Mar. 29 2014		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 02 2013	Jul. 01 2014		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 02 2013	Jul. 01 2014		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 28 2013	June 27 2014		
16	Band filter	Amindeon	82346	GTS219	Mar. 30 2013	Mar. 29 2014		

Con	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	Sep. 07 2013	Sep. 06 2015		
2	<b>EMI Test Receiver</b>	Rohde & Schwarz	ESCS30	GTS223	Jul. 02 2013	Jul. 01 2014		
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 02 2013	Jul. 01 2014		
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jul. 02 2013	Jul. 01 2014		
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 02 2013	Jul. 01 2014		
6	Coaxial Cable	GTS	N/A	GTS227	Jul. 02 2013	Jul. 01 2014		
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 09 2013	July 08 2014		



## 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 Integral antenna, the best case gain of the antenna is -1.4dBi



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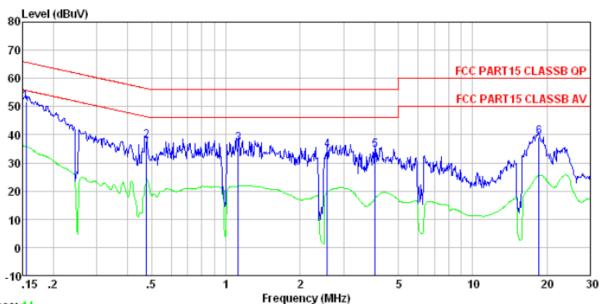
## 7.2 Conducted Emissions

	Limit (d	IRuV)							
Test Frequency Range: 150KHz to 30MHz  Class / Severity: Class B  Receiver setup: RBW=9KHz, VBW=30KHz, Sweep ti  Limit: Frequency range (MHz) Q  0.15-0.5  0.5-5	Limit (d	IRuV)							
Class / Severity: Class B  Receiver setup: RBW=9KHz, VBW=30KHz, Sweep ti  Limit: Frequency range (MHz)  0.15-0.5 0.5-5	Limit (d	IRuV)							
Receiver setup:  RBW=9KHz, VBW=30KHz, Sweep ti  Limit:  Frequency range (MHz)  0.15-0.5  0.5-5	Limit (d	IRuV/							
Limit: Frequency range (MHz) Q 0.15-0.5 0.5-5	Limit (d	IRu\/\							
0.15-0.5 0.5-5	,	IRu\/\							
0.15-0.5 0.5-5	)uasi-peak l	Frequency range (MHz)							
0.5-5	Quasi-peak Average								
	56	46							
	60	50							
* Decreases with the logarithm of the									
Test setup: Reference Plane	1 7								
Remark E.U.T  Remark E.U.T  Remark E.U.T  EMI Receive  Receive	Equipment   E.U.T   EMI   Receiver								
Test procedure:  1. The E.U.T and simulators are con line impedance stabilization network 500hm/50uH coupling impedance  2. The peripheral devices are also coupling that provides a 500hm/50uH	ork (L.I.S.N.). The for the measuring connected to the coupling imped	nis provides a ng equipment. main power through a lance with 50ohm							
termination. (Please refer to the block diagram of the test se photographs).  3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relapositions of equipment and all of the interface cables must be according to ANSI C63.4: 2003 on conducted measurement									
Test Instruments: Refer to section 6.0 for details	Refer to section 6.0 for details								
Test mode: Refer to section 5.3 for details	Refer to section 5.3 for details								
Test results: Pass									



## Measurement data

Line:



Trace: 14

Condition : FCC PART15 CLASSB QP LISN-2013 LINE

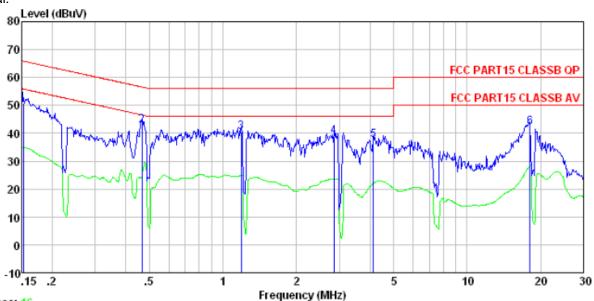
Job No. : 0112RF Test mode : WIFI mode

Test Engineer: Liu

	Freq		LISN Factor				Over Limit	Remark
	MHz	dBuV	dB	dB	dBu₹	dBuV	dB	
1 2 3 4 5 6	0. 476 1. 123 2. 581 4. 027	37. 65 36. 67 34. 19 34. 06	0.15 0.12 0.13 0.14 0.20 0.53	0.13 0.15 0.15	37. 88 36. 93 34. 48 34. 41	56. 41 56. 00 56. 00 56. 00	-18.53 -19.07 -21.52 -21.59	QP QP QP QP



#### Neutral:



Trace: 16

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0112RF Test mode : WIFI mode

Test Engineer: Liu

	Freq		LISN Factor					Remark
	MHz	dBuV	dB	dB	dBu₹	dBu₹	dB	
1 2 3	0.466 1.191	40.36		0.11 0.13	42.80 40.57	56.58 56.00	-13.78 -15.43	QP QP
4 5 6		37.11	0.11 0.14 0.42	0.15	37.40	56.00	-18.60	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

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:	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**

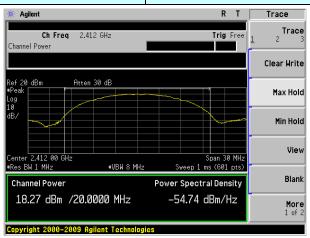
Test CH		Limit(dBm)	Result			
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesult
Lowest	18.27	13.29	13.06	12.16		Pass
Middle	17.82	13.17	13.17	12.15	30.00	
Highest	18.29	13.36	13.13	12.14		

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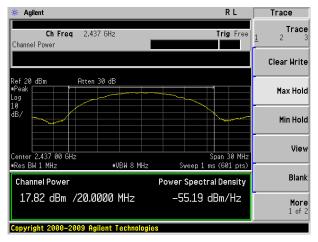


## Test plot as follows:

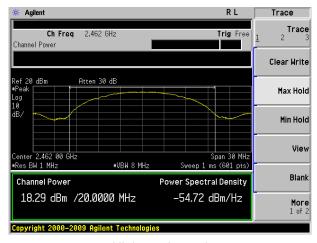
Test mode: 802.11b



#### Lowest channel



#### Middle channel



Highest channel

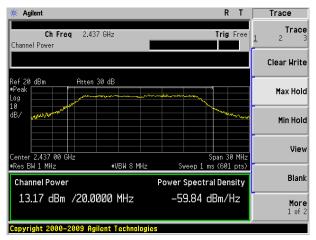
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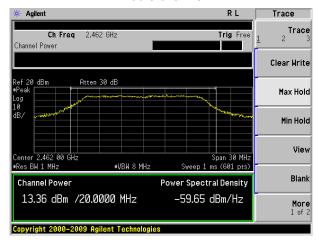
Test mode: 802.11g



#### Lowest channel



#### Middle channel



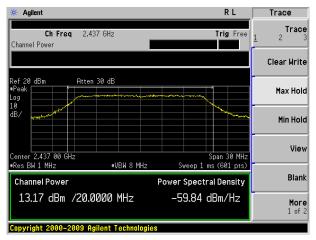
Highest channel



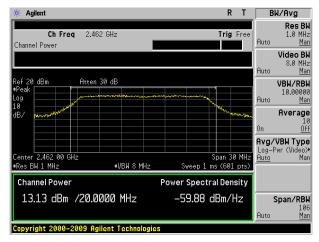
Test mode: 802.11n(HT20)



#### Lowest channel



#### Middle channel

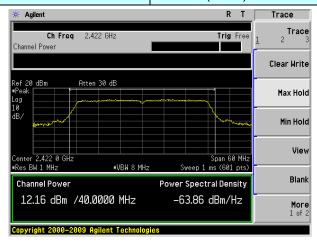


Highest channel

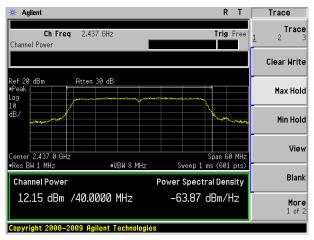
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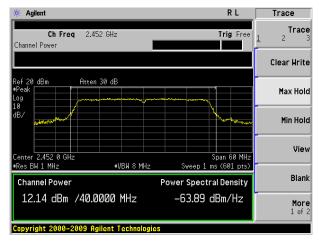
Test mode: 802.11n(HT40)



#### Lowest channel



#### Middle channel



Highest channel

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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			

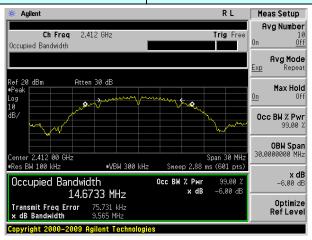
#### **Measurement Data**

Test CH	Channel Bandwidth (MHz)				Limit(KHz) Result			
Test CIT	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Lillit(Ki iz)	Nesuit		
Lowest	9.565	16.558	17.829	36.364		Pass		
Middle	9.143	16.580	17.824	36.402	>500			
Highest	9.605	16.550	17.834	36.464				

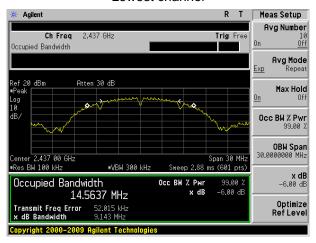
## Test plot as follows:



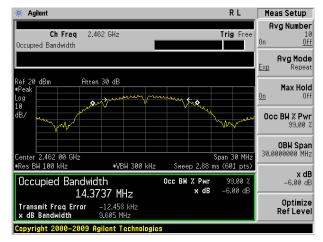
Test mode: 802.11b



#### Lowest channel



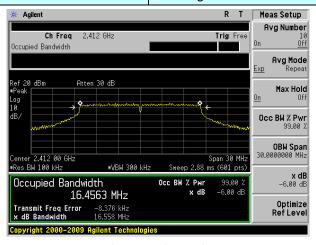
#### Middle channel



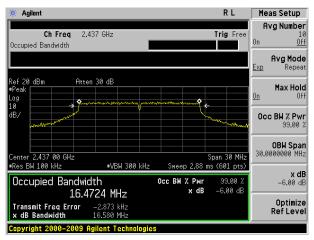
Highest channel



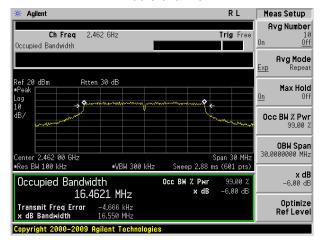
Test mode: 802.11g



#### Lowest channel



#### Middle channel

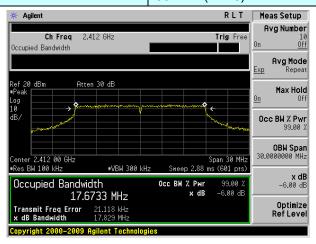


Highest channel

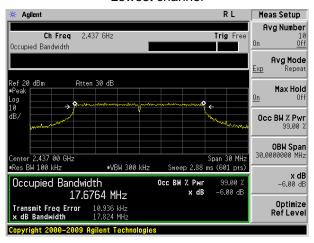
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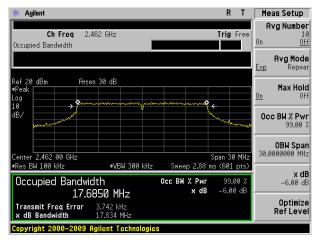
Test mode: 802.11n(HT20)



#### Lowest channel



#### Middle channel

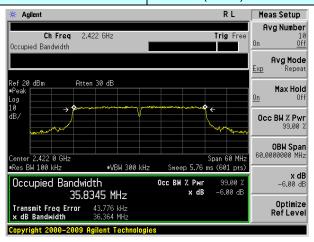


Highest channel

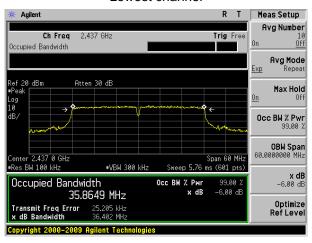
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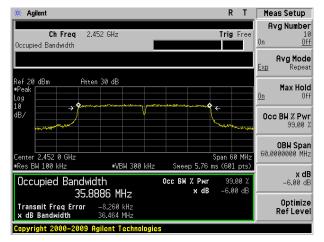
Test mode: 802.11n(HT40)



#### Lowest channel



#### Middle channel



Highest channel

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## 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**

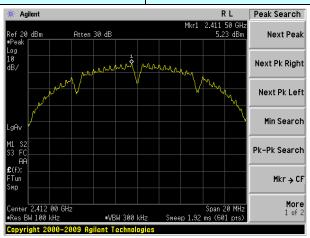
Test CH		Power Spectra	l Density (dBm)		Limit(dBm/3kHz)	Result
rest CIT	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(dBm/3Km2)	Nesull
Lowest	5.23	-3.20	-3.68	-6.63		Pass
Middle	4.67	-3.23	-3.62	-6.90	8.00	
Highest	5.12	-2.95	-3.56	-7.37		

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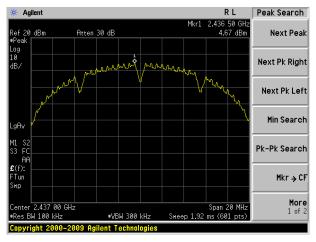


## Test plot as follows:

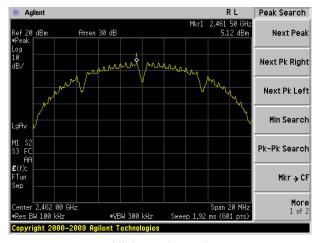
Test mode: 802.11b



#### Lowest channel



#### Middle channel

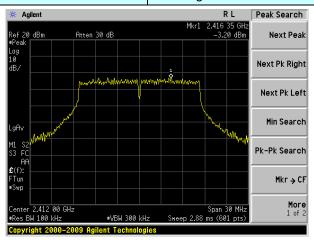


Highest channel

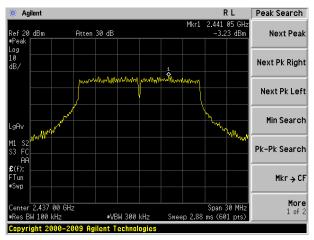
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



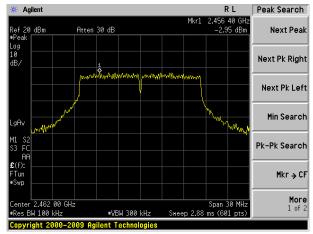
Test mode: 802.11g



#### Lowest channel



## Middle channel

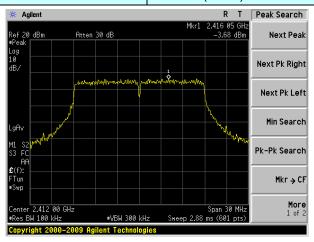


Highest channel

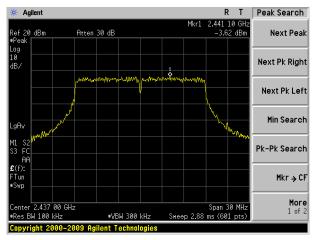
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



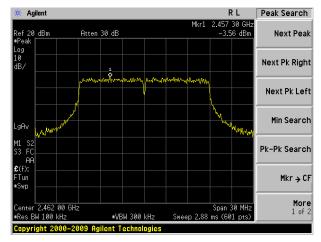
Test mode: 802.11n(HT20)



#### Lowest channel



#### Middle channel

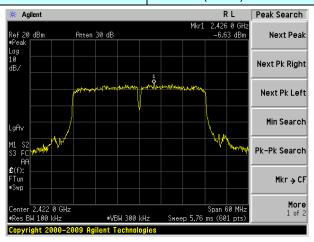


Highest channel

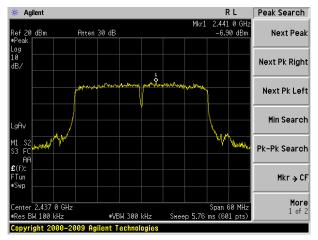
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



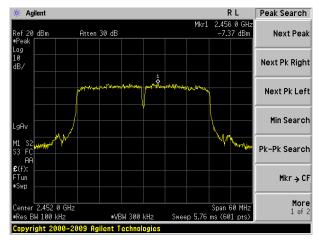
Test mode: 802.11n(HT40)



#### Lowest channel



#### Middle channel



Highest channel

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



# 7.6 Band edges

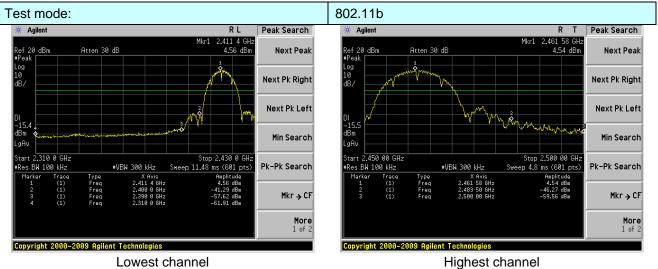
## 7.6.1 Conducted Emission Method

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:

Test mode:

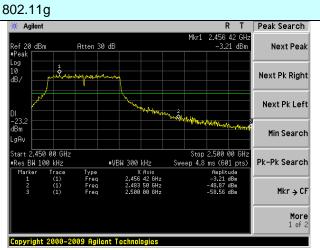


More 1 of 2

Lowest channel

## Peak Search Agilent R T 2.416 0 GH: -3.26 dBm Next Peak Next Pk Right Next Pk Left Min Search Stop 2.430 0 GH Sweep 11.48 ms (601 pts) Pk-Pk Search Mkr → CF

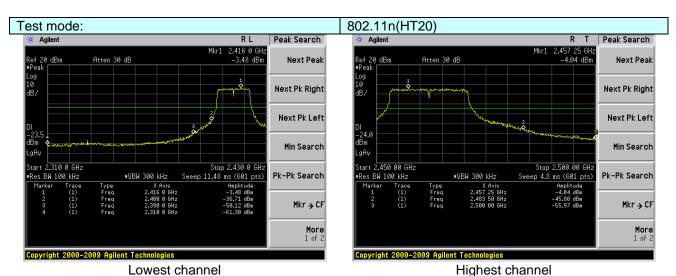
Lowest channel

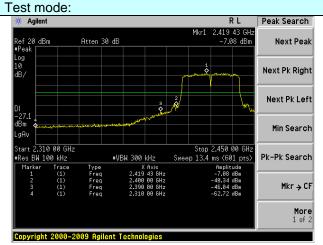


Highest channel

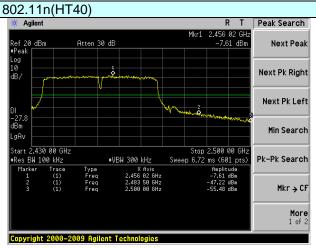
Shenzhen, China 518102











Highest channel



## 7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15.209	and 15.205			
Test Method:	ANSI C63.4: 20	03				
Test Frequency Range:	All of the restrict 2500MHz) data		tested, only	the worst b	pand's (2310MHz to	
Test site:	Measurement D					
Receiver setup:	Frequency	Detector	RBW	VBW	Value	
·		Peak	1MHz	3MHz	Peak	
	Above 1GHz	Peak	1MHz	10Hz	Average	
Limit:	Freque		Limit (dBuV	/m @3m)	Value	
			54.0		Average	
	Above 1	GHZ	74.0	00	Peak	
Test setup:	Antenna Tower  Horn Antenna  Spectrum  Analyzer  Amplifier					
Test Procedure:	<ol> <li>The EUT was placed on the top of a rotating table 0.8 meters about the ground at a 3 meter camber. The table was rotated 360 degree 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 ante tower.</li> <li>The antenna height is varied from one meter to four meters above ground to determine the maximum value of the field strength. Bot horizontal and vertical polarizations of the antenna are set to mak measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst and then the antenna was tuned to heights from 1 meter to 4 met and the rota table was turned from 0 degrees to 360 degrees to fithe 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 that the limit specified, then testing could be stopped and the peak va of the EUT would be reported. Otherwise the emissions that did repeak or average method as specified and then reported in a data sheet.</li> <li>The radiation measurements are performed in X, Y, Z axis position And found the X axis positioning which it is worse case, only the found the X axis positioning which it is worse case, only the found the X axis positioning which it is worse case.</li> </ol>					
Test Instruments:	Refer to section	node is recorde 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
2310.00	49.99	27.59	5.38	30.18	52.78	74.00	-21.22	Vertical
2390.00	58.45	27.58	5.39	30.18	61.24	74.00	-12.76	Vertical
2310.00	51.56	27.59	5.38	30.18	54.35	74.00	-19.65	Horizontal
2390.00	59.80	27.58	5.39	30.18	62.59	74.00	-11.41	Horizontal

#### 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
2310.00	37.23	27.59	5.38	30.18	40.02	54.00	-13.98	Vertical
2390.00	45.34	27.58	5.39	30.18	48.13	54.00	-5.87	Vertical
2310.00	38.92	27.59	5.38	30.18	41.71	54.00	-12.29	Horizontal
2390.00	46.34	27.58	5.39	30.18	49.13	54.00	-4.87	Horizontal

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	49.94	27.53	5.47	29.93	53.01	74.00	-20.99	Vertical
2500.00	46.29	27.55	5.49	29.93	49.40	74.00	-24.60	Vertical
2483.50	51.86	27.53	5.47	29.93	54.93	74.00	-19.07	Horizontal
2500.00	48.49	27.55	5.49	29.93	51.60	74.00	-22.40	Horizontal

#### 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	
2483.50	37.34	27.53	5.47	29.93	40.41	54.00	-13.59	Vertical	
2500.00	33.76	27.55	5.49	29.93	36.87	54.00	-17.13	Vertical	
2483.50	39.14	27.53	5.47	29.93	42.21	54.00	-11.79	Horizontal	
2500.00	35.58	27.55	5.49	29.93	38.69	54.00	-15.31	Horizontal	

#### 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.

Global United Technology Services Co., Ltd.

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Shenzhen, China 518102



Report No.: GTSE14020011202

Test mode:		802.1	1g		Test channel:		Lowest	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	. I evel	Limit Line (dBuV/m)	I I imit	Polarization
2310.00	49.15	27.59	5.38	30.18	51.94	74.00	-22.06	Vertical
2390.00	57.33	27.58	5.39	30.18	60.12	74.00	-13.88	Vertical
2310.00	50.66	27.59	5.38	30.18	53.45	74.00	-20.55	Horizontal
2390.00	58.45	27.58	5.39	30.18	61.24	74.00	-12.76	Horizontal
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	'	Limit Line (dBuV/m)	I I imit	Polarization
2310.00	36.63	27.59	5.38	30.18	39.42	54.00	-14.58	Vertical
2390.00	44.66	27.58	5.39	30.18	47.45	54.00	-6.55	Vertical
2310.00	38.25	27.59	5.38	30.18	41.04	54.00	-12.96	Horizontal
2390.00	45.59	27.58	5.39	30.18	48.38	54.00	-5.62	Horizontal
Test mode:		802.1	1g	-	Test channel:		Highest	
Peak value:						_		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	· i revei	Limit Line (dBuV/m)	I I imit	Polarization
2483.50	48.74	27.53	5.47	29.93	51.81	74.00	-22.19	Vertical
2500.00	45.36	27.55	5.49	29.93	48.47	74.00	-25.53	Vertical
2483.50	50.49	27.53	5.47	29.93	53.56	74.00	-20.44	Horizontal
2500.00	47.40	27.55	5.49	29.93	50.51	74.00	-23.49	Horizontal
Average va	lue:					_		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	· i revei	Limit Line (dBuV/m)	I I imit	Polarization
2483.50	36.62	27.53	5.47	29.93	39.69	54.00	-14.31	Vertical
2500.00	33.20	27.55	5.49	29.93	36.31	54.00	-17.69	Vertical
2483.50	38.34	27.53	5.47	29.93	41.41	54.00	-12.59	Horizontal
2500.00	34.98	27.55	5.49	29.93	38.09	54.00	-15.91	Horizontal
Remark:  1. 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.

Global United Technology Services Co., Ltd.

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Shenzhen, China 518102



Test mode:

Report No.: GTSE14020011202

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
2310.00	49.51	27.59	5.38	30.18	52.30	74.00	-21.70	Vertical
2390.00	57.80	27.58	5.39	30.18	60.59	74.00	-13.41	Vertical
2310.00	51.04	27.59	5.38	30.18	53.83	74.00	-20.17	Horizontal
2390.00	59.02	27.58	5.39	30.18	61.81	74.00	-12.19	Horizontal
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
2310.00	36.88	27.59	5.38	30.18	39.67	54.00	-14.33	Vertical
2390.00	44.95	27.58	5.39	30.18	47.74	54.00	-6.26	Vertical
2310.00	38.53	27.59	5.38	30.18	41.32	54.00	-12.68	Horizontal
2390.00	45.91	27.58	5.39	30.18	48.70	54.00	-5.30	Horizontal
				•	•			
Test mode:		802.1	1n(HT20)	Te	st channel:	ŀ	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	49.24	27.53	5.47	29.93	52.31	74.00	-21.69	Vertical
2500.00	45.76	27.55	5.49	29.93	48.87	74.00	-25.13	Vertical
2483.50	51.06	27.53	5.47	29.93	54.13	74.00	-19.87	Horizontal
2500.00	47.86	27.55	5.49	29.93	50.97	74.00	-23.03	Horizontal
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	36.93	27.53	5.47	29.93	40.00	54.00	-14.00	Vertical
2500.00	33.44	27.55	5.49	29.93	36.55	54.00	-17.45	Vertical
2483.50	38.68	27.53	5.47	29.93	41.75	54.00	-12.25	Horizontal
2500.00	35.23	27.55	5.49	29.93	38.34	54.00	-15.66	Horizontal
Remark:								

Test channel:

802.11n(HT20)

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.



Test mode:

Report No.: GTSE14020011202

Lowest

Tost mode.		002.1	111(11170)	10.	ot orial intol.	<b>-</b>	OWCSI	
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
2310.00	48.48	27.59	5.38	30.18	51.27	74.00	-22.73	Vertical
2390.00	56.43	27.58	5.39	30.18	59.22	74.00	-14.78	Vertical
2310.00	49.94	27.59	5.38	30.18	52.73	74.00	-21.27	Horizontal
2390.00	57.37	27.58	5.39	30.18	60.16	74.00	-13.84	Horizontal
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
2310.00	36.15	27.59	5.38	30.18	38.94	54.00	-15.06	Vertical
2390.00	44.10	27.58	5.39	30.18	46.89	54.00	-7.11	Vertical
2310.00	37.72	27.59	5.38	30.18	40.51	54.00	-13.49	Horizontal
2390.00	44.99	27.58	5.39	30.18	47.78	54.00	-6.22	Horizontal
Test mode:		802.1	1n(HT40)	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	47.77	27.53	5.47	29.93	50.84	74.00	-23.16	Vertical
2500.00	44.62	27.55	5.49	29.93	47.73	74.00	-26.27	Vertical
2483.50	49.39	27.53	5.47	29.93	52.46	74.00	-21.54	Horizontal
2500.00	46.53	27.55	5.49	29.93	49.64	74.00	-24.36	Horizontal
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)	Polarizatior
2483.50	36.04	27.53	5.47	29.93	39.11	54.00	-14.89	Vertical
2500.00	32.74	27.55	5.49	29.93	35.85	54.00	-18.15	Vertical
2402 50	37.70	27.53	5.47	29.93	40.77	54.00	-13.23	Horizontal
2483.50								<del></del>

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

Test channel:

802.11n(HT40)

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102



# 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					

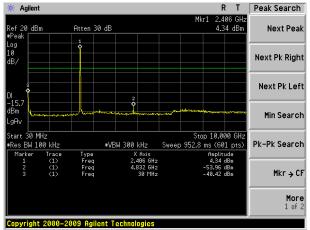


## Test plot as follows:

## Test mode:

## 802.11b





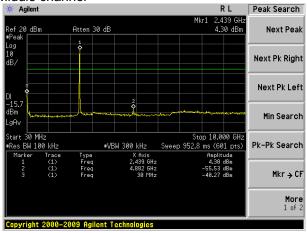
30MHz~10GHz

## Agilent RL Peak Search Atten 30 dE Next Peak Next Pk Right Next Pk Left Min Search Start 10.000 GHz •Res BW 100 kHz Stop 25.000 GHz Sweep 1.434 s (601 pts) #VBW 300 kHz Pk-Pk Search X Axis 24.925 GHz Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

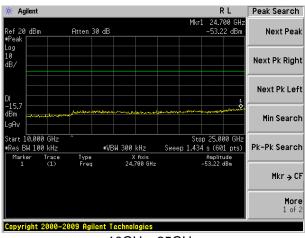
#### Middle channel

Highest channel



30MHz~10GHz

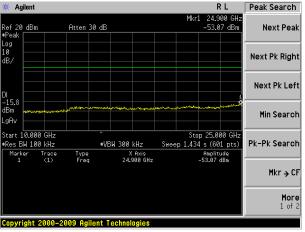
Peak Search



10GHz~25GHz



30MHz~10GHz



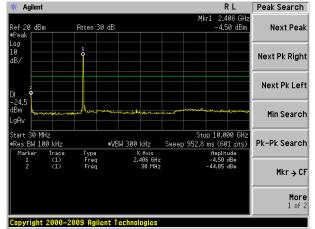
10GHz~25GHz



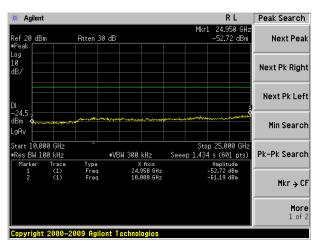
#### Test mode:

## 802.11g

## Lowest channel

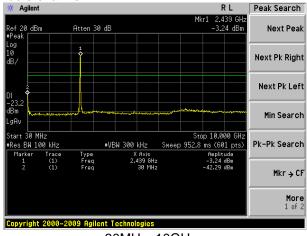


30MHz~10GHz

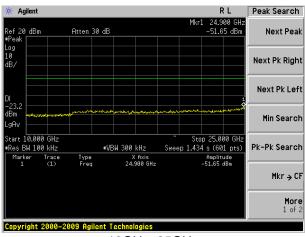


10GHz~25GHz

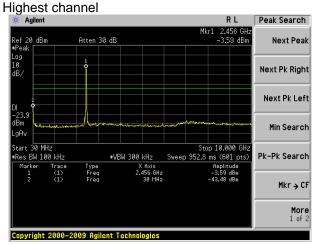
#### Middle channel



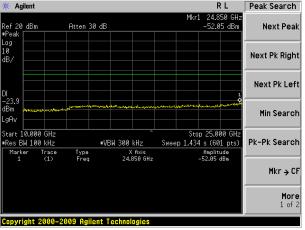
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



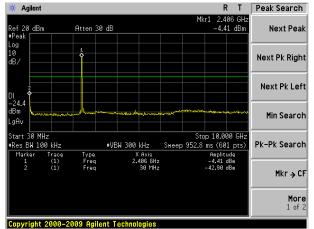
10GHz~25GHz



#### Test mode:

## 802.11n(HT20)

#### Lowest channel



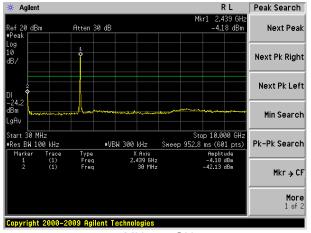
30MHz~10GHz

## 

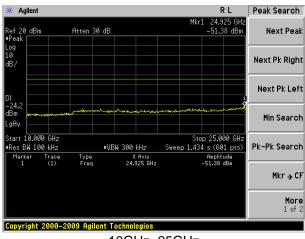
10GHz~25GHz

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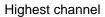
## Middle channel

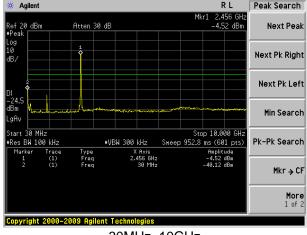


30MHz~10GHz

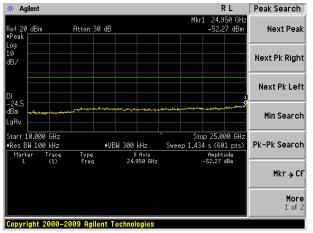


10GHz~25GHz





30MHz~10GHz



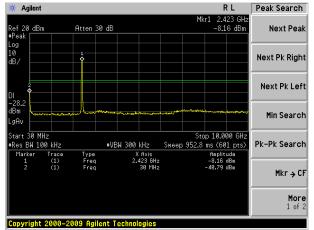
10GHz~25GHz



#### Test mode:

## 802.11n(HT40)

#### Lowest channel

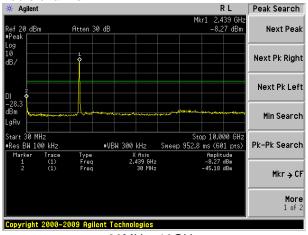


30MHz~10GHz

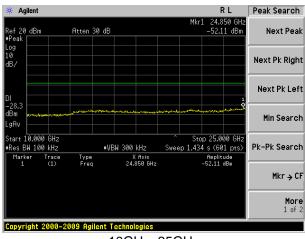
## Peak Search Atten 30 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH Sweep 1.434 s (601 pts) ■Res BW 100 kHz #VBW 300 kHz Pk-Pk Search Type Freq X Axis 24.925 GHz Amplitude -53.00 dBm Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

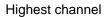
## Middle channel

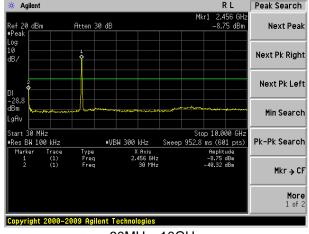


30MHz~10GHz

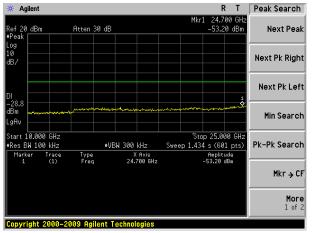


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



## 7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	FCC Part15 C Section 15.209									
Test Method:	ANSI C63.4: 200	3									
Test Frequency Range:	30MHz to 25GHz	30MHz to 25GHz									
Test site:	Measurement Dis	stance: 3m									
Receiver setup:	Frequency										
	30MHz-1GHz	30MHz-1GHz Quasi-peak 120KHz 300KHz Quas									
	Above 1CHz	Above 1GHz         Peak         1MHz         3MHz         Peak           Peak         1MHz         10Hz         Average									
	Above 1G112	Above 1GHz									
Limit:	Frequen	су	Limit (dBuV/	/m @3m)	Value						
	30MHz-88	30MHz-88MHz 40.00 Quasi-peak									
	88MHz-216	88MHz-216MHz 43.50 Quasi-peak									
	216MHz-96	216MHz-960MHz 46.00 Quasi-peak									
	960MHz-1	960MHz-1GHz 54.00 Quasi-peak									
	Above 10	\U-7	54.0	0	Average						
	Above 10	סרוב	74.0	0	Peak						
	Antenna Tower  Search Antenna  RF Test Receiver  Ground Plane  Above 1GHz  Antenna Tower  Horn Antenna  Spectrum Analyzer										

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102



Test Procedure:	1. 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.
	5. 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 X 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 X-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
95.76	38.15	14.90	1.16	31.74	22.47	43.50	-21.03	Vertical
155.91	44.93	10.51	1.60	32.00	25.04	43.50	-18.46	Vertical
167.82	49.51	10.90	1.67	32.04	30.04	43.50	-13.46	Vertical
360.45	41.16	16.43	2.67	32.00	28.26	46.00	-17.74	Vertical
472.18	42.77	17.89	3.19	31.64	32.21	46.00	-13.79	Vertical
616.37	37.09	20.52	3.79	31.07	30.33	46.00	-15.67	Vertical
167.82	41.44	10.90	1.67	32.04	21.97	43.50	-21.53	Horizontal
247.68	44.03	14.07	2.11	32.16	28.05	46.00	-17.95	Horizontal
312.18	47.26	15.22	2.42	32.14	32.76	46.00	-13.24	Horizontal
327.89	46.53	15.66	2.51	32.09	32.61	46.00	-13.39	Horizontal
360.45	48.03	16.43	2.67	32.00	35.13	46.00	-10.87	Horizontal
616.37	39.69	20.52	3.79	31.07	32.93	46.00	-13.07	Horizontal



## **Above 1GHz**

Test mode:		802.11b		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	43.20	31.79	8.62	32.10	51.51	74.00	-22.49	Vertical
7236.00	27.66	36.19	11.68	31.97	43.56	74.00	-30.44	Vertical
9648.00	28.27	38.07	14.16	31.56	48.94	74.00	-25.06	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	42.55	31.79	8.62	32.10	50.86	74.00	-23.14	Horizontal
7236.00	27.48	36.19	11.68	31.97	43.38	74.00	-30.62	Horizontal
9648.00	27.83	38.07	14.16	31.56	48.50	74.00	-25.50	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	33.04	31.79	8.62	32.10	41.35	54.00	-12.65	Vertical
7236.00	17.20	36.19	11.68	31.97	33.10	54.00	-20.90	Vertical
9648.00	17.43	38.07	14.16	31.56	38.10	54.00	-15.90	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	32.35	31.79	8.62	32.10	40.66	54.00	-13.34	Horizontal
7236.00	16.77	36.19	11.68	31.97	32.67	54.00	-21.33	Horizontal
9648.00	16.46	38.07	14.16	31.56	37.13	54.00	-16.87	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

## Remark:

Project No.: GTSE140200112RF

<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	st channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	1 1 2021	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	43.15	31.85	8.66	32.12	51.54	74.00	-22.46	Vertical
7311.00	28.53	36.37	11.71	31.91	44.70	74.00	-29.30	Vertical
9748.00	28.19	38.27	14.25	31.56	49.15	74.00	-24.85	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	43.81	31.85	8.66	32.12	52.20	74.00	-21.80	Horizontal
7311.00	27.27	36.37	11.71	31.91	43.44	74.00	-30.56	Horizontal
9748.00	28.12	38.27	14.25	31.56	49.08	74.00	-24.92	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)	1 41/41	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	34.09	31.85	8.66	32.12	42.48	54.00	-11.52	Vertical
7311.00	16.87	36.37	11.71	31.91	33.04	54.00	-20.96	Vertical
9748.00	17.46	38.27	14.25	31.56	38.42	54.00	-15.58	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	33.99	31.85	8.66	32.12	42.38	54.00	-11.62	Horizontal
7311.00	16.37	36.37	11.71	31.91	32.54	54.00	-21.46	Horizontal
9748.00	17.85	38.27	14.25	31.56	38.81	54.00	-15.19	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		Te	est channel:		High	est	
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)			mit Line dBuV/m)	Over Limit (dB)	polarization
4924.00	47.80	31.90	8.70	32.15	56.2	5	74.00	-17.75	Vertical
7386.00	28.65	36.49	11.76	31.83	45.07	7	74.00	-28.93	Vertical
9848.00	31.09	38.62	14.31	31.77	52.2	5	74.00	-21.75	Vertical
12310.00	*						74.00		Vertical
14772.00	*						74.00		Vertical
17234.00	*						74.00		Vertical
4924.00	47.44	31.90	8.70	32.15	55.89	9	74.00	-18.11	Horizontal
7386.00	27.72	36.49	11.76	31.83	44.14	4	74.00	-29.86	Horizontal
9848.00	27.33	38.62	14.31	31.77	48.49	9	74.00	-25.51	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)	Pream Facto (dB)	.   1 21/2		mit Line IBuV/m)	Over Limit (dB)	polarization
4924.00	37.88	31.90	8.70	32.15	46.33	3	54.00	-7.67	Vertical
7386.00	18.62	36.49	11.76	31.83	35.04	4	54.00	-18.96	Vertical
9848.00	19.63	38.62	14.31	31.77	40.79	9	54.00	-13.21	Vertical
12310.00	*						54.00		Vertical
14772.00	*						54.00		Vertical
17234.00	*						54.00		Vertical
4924.00	36.91	31.90	8.70	32.15	45.36	3	54.00	-8.64	Horizontal
7386.00	17.14	36.49	11.76	31.83	33.56	3	54.00	-20.44	Horizontal
9848.00	16.63	38.62	14.31	31.77	37.79	9	54.00	-16.21	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		Test	channel:	lowes	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	41.89	31.79	8.62	32.10	50.20	74.00	-23.80	Vertical
7236.00	26.84	36.19	11.68	31.97	42.74	74.00	-31.26	Vertical
9648.00	27.68	38.07	14.16	31.56	48.35	74.00	-25.65	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	41.44	31.79	8.62	32.10	49.75	74.00	-24.25	Horizontal
7236.00	26.75	36.19	11.68	31.97	42.65	74.00	-31.35	Horizontal
9648.00	27.28	38.07	14.16	31.56	47.95	74.00	-26.05	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	31.83	31.79	8.62	32.10	40.14	54.00	-13.86	Vertical
7236.00	16.40	36.19	11.68	31.97	32.30	54.00	-21.70	Vertical
9648.00	16.86	38.07	14.16	31.56	37.53	54.00	-16.47	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	31.31	31.79	8.62	32.10	39.62	54.00	-14.38	Horizontal
7236.00	16.07	36.19	11.68	31.97	31.97	54.00	-22.03	Horizontal
9648.00	15.93	38.07	14.16	31.56	36.60	54.00	-17.40	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					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:		802.11g		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	42.06	31.85	8.66	32.12	50.45	74.00	-23.55	Vertical
7311.00	27.84	36.37	11.71	31.91	44.01	74.00	-29.99	Vertical
9748.00	27.70	38.27	14.25	31.56	48.66	74.00	-25.34	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	42.90	31.85	8.66	32.12	51.29	74.00	-22.71	Horizontal
7311.00	26.67	36.37	11.71	31.91	42.84	74.00	-31.16	Horizontal
9748.00	27.67	38.27	14.25	31.56	48.63	74.00	-25.37	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	33.09	31.85	8.66	32.12	41.48	54.00	-12.52	Vertical
7311.00	16.21	36.37	11.71	31.91	32.38	54.00	-21.62	Vertical
9748.00	16.99	38.27	14.25	31.56	37.95	54.00	-16.05	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	33.13	31.85	8.66	32.12	41.52	54.00	-12.48	Horizontal
7311.00	15.79	36.37	11.71	31.91	31.96	54.00	-22.04	Horizontal
9748.00	17.42	38.27	14.25	31.56	38.38	54.00	-15.62	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*	_				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:		802.11g		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	45.93	31.90	8.70	32.15	54.38	74.00	-19.62	Vertical
7386.00	27.47	36.49	11.76	31.83	43.89	74.00	-30.11	Vertical
9848.00	30.25	38.62	14.31	31.77	51.41	74.00	-22.59	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	45.86	31.90	8.70	32.15	54.31	74.00	-19.69	Horizontal
7386.00	26.69	36.49	11.76	31.83	43.11	74.00	-30.89	Horizontal
9848.00	26.55	38.62	14.31	31.77	47.71	74.00	-26.29	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	36.16	31.90	8.70	32.15	44.61	54.00	-9.39	Vertical
7386.00	17.47	36.49	11.76	31.83	33.89	54.00	-20.11	Vertical
9848.00	18.82	38.62	14.31	31.77	39.98	54.00	-14.02	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	35.43	31.90	8.70	32.15	43.88	54.00	-10.12	Horizontal
7386.00	16.14	36.49	11.76	31.83	32.56	54.00	-21.44	Horizontal
9848.00	15.87	38.62	14.31	31.77	37.03	54.00	-16.97	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(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	42.25	31.79	8.62	32.10	50.56	74.00	-23.44	Vertical
7236.00	27.07	36.19	11.68	31.97	42.97	74.00	-31.03	Vertical
9648.00	27.84	38.07	14.16	31.56	48.51	74.00	-25.49	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	41.75	31.79	8.62	32.10	50.06	74.00	-23.94	Horizontal
7236.00	26.96	36.19	11.68	31.97	42.86	74.00	-31.14	Horizontal
9648.00	27.44	38.07	14.16	31.56	48.11	74.00	-25.89	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	32.17	31.79	8.62	32.10	40.48	54.00	-13.52	Vertical
7236.00	16.62	36.19	11.68	31.97	32.52	54.00	-21.48	Vertical
9648.00	17.02	38.07	14.16	31.56	37.69	54.00	-16.31	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	31.60	31.79	8.62	32.10	39.91	54.00	-14.09	Horizontal
7236.00	16.26	36.19	11.68	31.97	32.16	54.00	-21.84	Horizontal
9648.00	16.08	38.07	14.16	31.56	36.75	54.00	-17.25	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	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	42.36	31.85	8.66	32.12	50.75	74.00	-23.25	Vertical
7311.00	28.04	36.37	11.71	31.91	44.21	74.00	-29.79	Vertical
9748.00	27.84	38.27	14.25	31.56	48.80	74.00	-25.20	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	43.15	31.85	8.66	32.12	51.54	74.00	-22.46	Horizontal
7311.00	26.83	36.37	11.71	31.91	43.00	74.00	-31.00	Horizontal
9748.00	27.79	38.27	14.25	31.56	48.75	74.00	-25.25	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	33.37	31.85	8.66	32.12	41.76	54.00	-12.24	Vertical
7311.00	16.39	36.37	11.71	31.91	32.56	54.00	-21.44	Vertical
9748.00	17.13	38.27	14.25	31.56	38.09	54.00	-15.91	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	33.37	31.85	8.66	32.12	41.76	54.00	-12.24	Horizontal
7311.00	15.95	36.37	11.71	31.91	32.12	54.00	-21.88	Horizontal
9748.00	17.54	38.27	14.25	31.56	38.50	54.00	-15.50	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	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	46.46	31.90	8.70	32.15	54.91	74.00	-19.09	4924.00
7386.00	27.80	36.49	11.76	31.83	44.22	74.00	-29.78	7386.00
9848.00	30.48	38.62	14.31	31.77	51.64	74.00	-22.36	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	46.30	31.90	8.70	32.15	54.75	74.00	-19.25	Horizontal
7386.00	26.98	36.49	11.76	31.83	43.40	74.00	-30.60	Horizontal
9848.00	26.77	38.62	14.31	31.77	47.93	74.00	-26.07	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	36.64	31.90	8.70	32.15	45.09	54.00	-8.91	Vertical
7386.00	17.79	36.49	11.76	31.83	34.21	54.00	-19.79	Vertical
9848.00	19.05	38.62	14.31	31.77	40.21	54.00	-13.79	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	35.84	31.90	8.70	32.15	44.29	54.00	-9.71	Horizontal
7386.00	16.42	36.49	11.76	31.83	32.84	54.00	-21.16	Horizontal
9848.00	16.08	38.62	14.31	31.77	37.24	54.00	-16.76	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 2 "\*", means this data is the too weak instrument of signal is unable to test.



vel Fa uV) (d .11 3 .71 3	tenna actor B/m) 1.81	Cable Loss (dB) 8.63	Preamp Factor (dB) 32.11	Level (dBuV/m) 48.44	Limit Line (dBuV/m)	Over Limit (dB)	polarization
vel Fa uV) (d .11 3 .71 3	actor B/m) 1.81	Loss (dB) 8.63	Factor (dB)	(dBuV/m)	(dBuV/m)	Limit (dB)	polarization
.71 3		+	32.11	48 44	74.00		
	6.28	44.00			74.00	-25.56	Vertical
87 3		11.69	31.94	41.74	74.00	-32.26	Vertical
	8.13	14.21	31.52	47.69	74.00	-26.31	Vertical
k					74.00		Vertical
*					74.00		Vertical
k					74.00		Vertical
.94 3	1.81	8.63	32.11	48.27	74.00	-25.73	Horizontal
.77 3	6.28	11.69	31.94	41.80	74.00	-32.20	Horizontal
.54 3	8.13	14.21	31.52	47.36	74.00	-26.64	Horizontal
k					74.00		Horizontal
k					74.00		Horizontal
k					74.00		Horizontal
k	94 3 77 3 54 3	94 31.81 77 36.28 54 38.13	94 31.81 8.63 77 36.28 11.69 54 38.13 14.21	94 31.81 8.63 32.11 77 36.28 11.69 31.94 54 38.13 14.21 31.52	94 31.81 8.63 32.11 48.27 77 36.28 11.69 31.94 41.80 54 38.13 14.21 31.52 47.36	74.00 74.00 94 31.81 8.63 32.11 48.27 74.00 77 36.28 11.69 31.94 41.80 74.00 54 38.13 14.21 31.52 47.36 74.00 74.00 74.00	94     31.81     8.63     32.11     48.27     74.00     -25.73       77     36.28     11.69     31.94     41.80     74.00     -32.20       54     38.13     14.21     31.52     47.36     74.00     -26.64       74.00     74.00     74.00

## 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	30.19	31.81	8.63	32.11	38.52	54.00	-15.48	Vertical
7266.00	15.31	36.28	11.69	31.94	31.34	54.00	-22.66	Vertical
9688.00	16.09	38.13	14.21	31.52	36.91	54.00	-17.09	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	29.90	31.81	8.63	32.11	38.23	54.00	-15.77	Horizontal
7266.00	15.11	36.28	11.69	31.94	31.14	54.00	-22.86	Horizontal
9688.00	15.21	38.13	14.21	31.52	36.03	54.00	-17.97	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)	Т	Test channel:		Middle			
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	or	Level (dBuV/m)	Limit I (dBu\		Over Limit (dB)	polarization
4874.00	40.59	31.85	8.66	32.12 48.98		74.0	00	-25.02	Vertical	
7311.00	26.91	36.37	11.71	31.9	1	43.08	3.08 74.00		-30.92	Vertical
9748.00	27.03	38.27	14.25	31.5	6	47.99	74.00		-26.01	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.0	00		Vertical
4874.00	41.66	31.85	8.66	32.1	2	50.05	74.0	00	-23.95	Horizontal
7311.00	25.85	36.37	11.71	31.9	1	42.02	74.0	00	-31.98	Horizontal
9748.00	27.05	38.27	14.25	31.5	6	48.01	74.0	00	-25.99	Horizontal
12185.00	*						74.0	00		Horizontal
14622.00	*						74.0	00		Horizontal
17059.00	*						74.0	00		Horizontal
Average value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prean Facto (dB)	or	Level (dBuV/m)	Limit I (dBu\		Over Limit (dB)	polarization
4874.00	31.74	31.85	8.66	32.1	2	40.13	54.0	00	-13.87	Vertical
7311.00	15.31	36.37	11.71	31.9	1	31.48	54.0	00	-22.52	Vertical
9748.00	16.35	38.27	14.25	31.5	6	37.31	54.0	00	-16.69	Vertical
12185.00	*						54.0	00		Vertical
14622.00	*						54.0	00		Vertical
17059.00	*						54.0	00		Vertical
4874.00	31.97	31.85	8.66	32.1	2	40.36	54.0	00	-13.64	Horizontal
7311.00	15.00	36.37	11.71	31.9	1	31.17	54.0	00	-22.83	Horizontal
9748.00	16.83	38.27	14.25	31.5	6	37.79	54.0	00	-16.21	Horizontal
12185.00	*						54.0	00		Horizontal
14622.00	*						54.0	00		Horizontal
17059.00	*						54.0	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:	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
4904.00	43.40	31.88	8.68	32.13	51.83	74.00	-22.17	Vertical
7356.00	25.87	36.45	11.75	31.86	42.21	74.00	-31.79	Vertical
9808.00	29.10	38.43	14.29	31.68	50.14	74.00	-23.86	Vertical
12310.00	*						74.00	
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	43.72	31.88	8.68	32.13	52.15	74.00	-21.85	Horizontal
7356.00	25.28	36.45	11.75	31.86	41.62	74.00	-32.38	Horizontal
9808.00	25.50	38.43	14.29	31.68	46.54	74.00	-27.46	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
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
4904.00	33.82	31.88	8.68	32.13	42.25	54.00	-11.75	Vertical
7356.00	15.93	36.45	11.75	31.86	32.27	54.00	-21.73	Vertical
9808.00	17.72	38.43	14.29	31.68	38.76	54.00	-15.24	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	33.42	31.88	8.68	32.13	41.85	54.00	-12.15	Horizontal
7356.00	14.78	36.45	11.75	31.86	31.12	54.00	-22.88	Horizontal
9808.00	14.86	38.43	14.29	31.68	35.90	54.00	-18.10	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

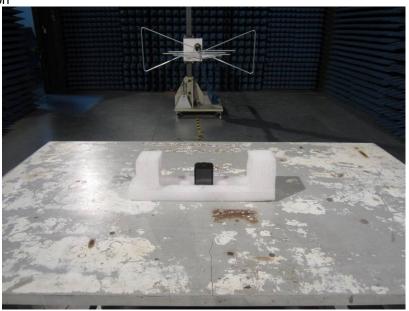
## Remark:

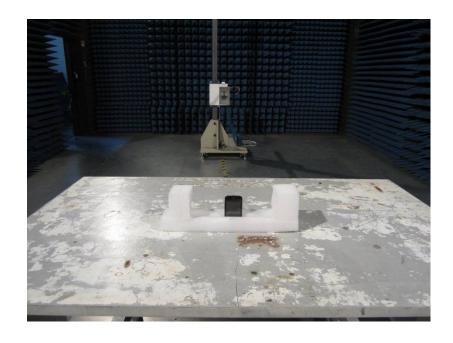
<sup>1</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor 2 "\*", means this data is the too weak instrument of signal is unable to test.



# 8 Test Setup Photo

Radiated Emission





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Conducted Emission



## 9 EUT Constructional Details

Reference to the test report No. GTSE14020011201

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