

Global United Technology Services Co., Ltd.

Report No.: GTSE15120235701

FCC Report (WIFI)

Applicant: Shenzhen HNC Technology Co.,Ltd.

Second floor, Lifeng Building, NO.42, LiuXian 1st Load, Address of Applicant:

Bao'an District, Shenzhen, Guangdong, China

Equipment Under Test (EUT)

Product Name: Mini PC

Model No.: HNC-C80, HNC-C81

Trade Mark: **HNCSMILE**

FCC ID: 2AHHZHNC-C80

FCC CFR Title 47 Part 15 Subpart C Section 15.247:2014 Applicable standards:

Date of sample receipt: December 30, 2015

Date of Test: December 31-January 14, 2016

January 14, 2016 Date of report issued:

Test Result: PASS *

Authorized Signature:



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

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^{*} In the configuration tested, the EUT complied with the standards specified above.



2 Version

Version No.	Date	Description
00	January 14, 2016	Original

Prepared By:	Zdward.Pan	Date:	January 14, 2016
	Project Engineer		
Check By:	hank. yan	Date:	January 14, 2016
	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.

Remark: Test according to ANSI C63.10 2013 and ANSI C63.4: 2014

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission 0.15MHz ~ 30MHz ± 3.45dB			
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of 9	95%.

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5 General Information

5.1 Client Information

Applicant:	Shenzhen HNC Technology Co.,Ltd.
Address of Applicant:	Second floor, Lifeng Building, NO.42, LiuXian 1st Load, Bao'an District, Shenzhen, Guangdong, China
Manufacturer/ Factory:	Shenzhen HNC Technology Co.,Ltd.
Address of Manufacturer/ Factory:	Second floor, Lifeng Building, NO.42, LiuXian 1st Load, Bao'an District, Shenzhen, Guangdong, China

5.2 General Description of EUT

Product Name:	Mini PC
Model No.:	HNC-C80, HNC-C81
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
	802.11n(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:	2.0dBi(declare by Applicant)
Power supply:	Adapter:
	Model:SA/12PA/05FUS0502000
	Input:AC100-240V~50/60Hz, 0. 5A
	Output:DC 5V 2A
	Or
	DC 3.7V 2*1500mAh 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 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 dutycycle >98%, 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 functi, on 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

Manufacturer	Description	Model	Serial Number	FCC Approval
AOC	LCD TV	TFT24660AG	T49A5JA0006600B9	FCC VOC

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5.5 Test Facility

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

• 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: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrrial Zone, Xixiang Road,

Baoan District, Shenzhen, Guangdong, China

Tel: 0755-27798480 Fax: 0755-27798960



6 Test Instruments list

Rad	iated 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. 27 2015	Mar. 26 2016
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. 3 2015	Dec. 2 2016
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 30 2015	June 29 2016
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 30 2015	June 29 2016
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 26 2015	June 25 2016
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016
11	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 30 2015	June 29 2016
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 30 2015	June 29 2016
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 26 2015	June 25 2016
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016
17	Power Meter	Anritsu	ML2495A	GTS540	June 30 2015	June 29 2016
18	Power Sensor	Anritsu	MA2411B	GTS541	June 30 2015	June 29 2016

Con	ducted 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 2015	Sep. 06 2016
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	June 30 2015	June 29 2016
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	June 30 2015	June 29 2016
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 30 2015	June 29 2016
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	June 30 2015	June 29 2016
6	Coaxial Cable	GTS	N/A	GTS227	June 30 2015	June 29 2016
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 07 2015	July 06 2016				



7 Test results and Measurement Data

7.1 Antenna requirement

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

15.203 requirement:

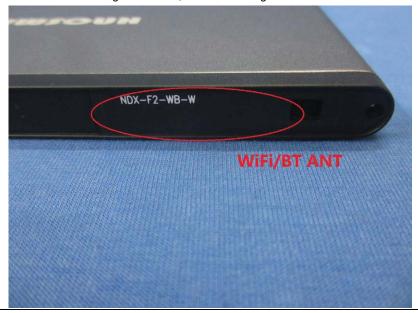
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 2dBi





7.2 Conducted Emissions

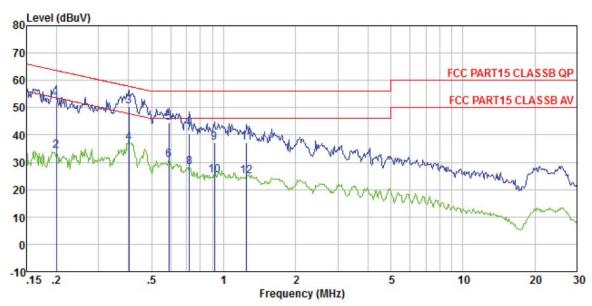
Test Requirement:	FCC Part15 C Section 15.207	,				
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto				
Limit:	Limit (dRuV)					
	Frequency range (MHz)	Average				
	0.15-0.5	56 to 46*				
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithm	n of the frequency.				
Test setup:	Reference Plane					
	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:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.3 for details	· · · · · · · · · · · · · · · · · · ·				
Test results:	Pass					

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Measurement data

Line:



Condition : FCC PART15 CLASSB QP LISN-2013 LINE

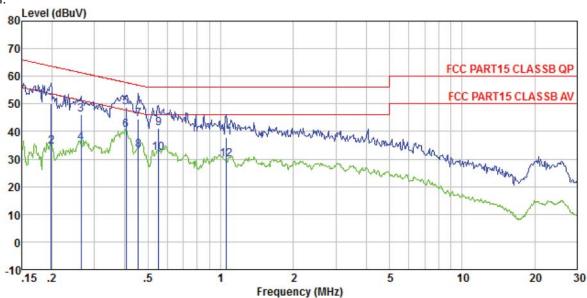
Job No. : 2357RF Test mode : Wifi mode Test Engineer: Arslan

	Freq	Read Level	Leve1	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	——dB	₫B	dBuV	dB	
1	0.200	51.56	51.83	0.14	0.13	63.62	-11.79	QP
2	0.200	33.87	34.14	0.14	0.13	53.62	-19.48	Average
2	0.402	50.30	50.52	0.11	0.11	57.81	-7.29	QP
4 5	0.402	36.80	37.02	0.11	0.11	47.81	-10.79	Average
5	0.592	44.23	44.48	0.13	0.12	56.00	-11.52	QP
6 7	0.592	30.59	30.84	0.13	0.12	46.00	-15.16	Average
7	0.720	40.09	40.36	0.14	0.13	56.00	-15.64	QP
8	0.720	27.98	28. 25	0.14	0.13	46.00	-17.75	Average
9	0.914	36.86	37.13	0.14	0.13	56.00	-18.87	QP
10	0.914	24.82	25.09	0.14	0.13	46.00	-20.91	Average
11	1.249	36.82	37.08	0.13	0.13	56.00	-18.92	QP
12	1.249	24.68	24.94	0.13	0.13	46.00	-21.06	Average

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Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 2357RF Test mode : Wifi mode Test Engineer: Arslan

	Freq	Read Level	Leve1	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	₫B	dBuV	dB	·
1	0.199	49.82	50.02	0.07	0.13	63.67	-13.65	QP
2	0.199	34.37	34.57	0.07	0.13	53.67	-19.10	Average
3	0.264	46.08	46.25	0.06	0.11	61.29	-15.04	QP
4	0.264	35.64	35.81	0.06	0.11	51.29	-15.48	Average
4 5 6	0.406	48.54	48.71	0.06	0.11	57.73	-9.02	QP
6	0.406	40.28	40.45	0.06	0.11	47.73	-7.28	Average
7	0.456	44.28	44.45	0.06	0.11	56.76	-12.31	QP
8	0.456	33.10	33.27	0.06	0.11	46.76	-13.49	Average
9	0.552	40.84	41.02	0.07	0.11	56.00	-14.98	QP
10	0.552	32.01	32.19	0.07	0.11	46.00	-13.81	Average
11	1.054	37.69	37.89	0.07	0.13	56.00	-18.11	QP
12	1, 054	29, 57	29, 77	0.07	0.13	46, 00	-16.23	Average

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.

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7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)				
Test Method:	ANSI C63.10:2013 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		Peak Outp	Limit(dBm)	Result		
Test CIT	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Ellillit(GDIII)	Result
Lowest	7.33	7.11	7.07	6.57		
Middle	7.37	7.07	7.18	6.69	30.00	Pass
Highest	7.13	7.29	7.03	6.52		



7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)		
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03		
Limit:	>500KHz		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

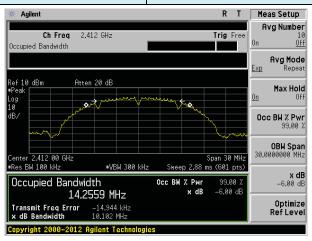
Measurement Data

Test CH		Channel Ban		Limit(KHz)	Result	
Test CIT	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	LIIIII((KI IZ)	Result
Lowest	10.102	16.414	17.656	36.112		Pass
Middle	10.179	16.437	17.642	36.276	>500	
Highest	9.589	16.412	17.643	36.122		

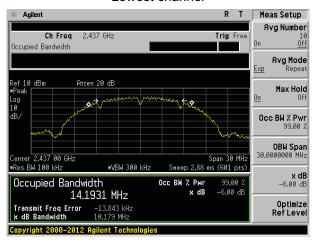
Test plot as follows:



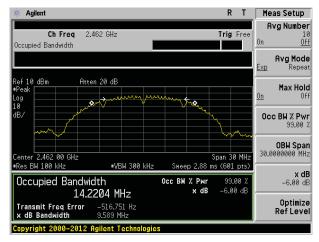
Test mode: 802.11b



Lowest channel



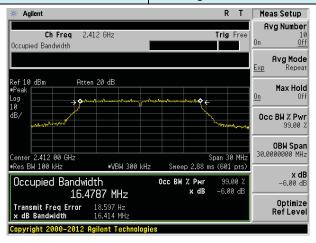
Middle channel



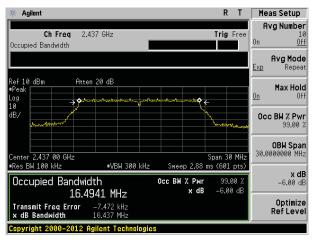
Highest channel



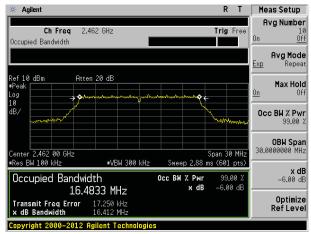
Test mode: 802.11g



Lowest channel



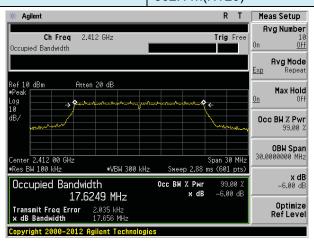
Middle channel



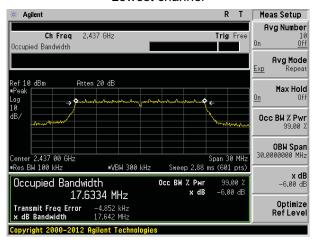
Highest channel



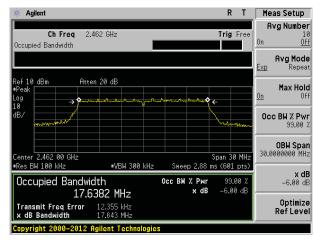
Test mode: 802.11n(HT20)



Lowest channel



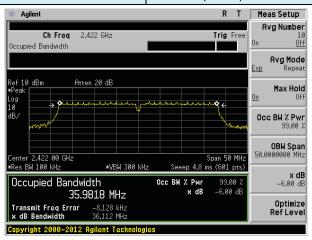
Middle channel



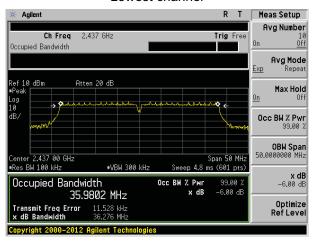
Highest channel



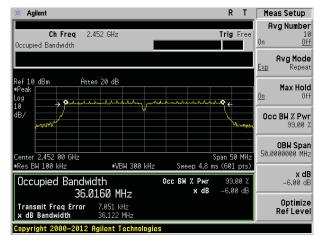
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)		
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03		
Limit:	8dBm		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

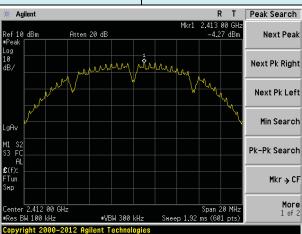
Measurement Data

Test CH		Power Spectra	Limit(dBm/3kHz)	Result		
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(dBin/3Ki12)	Result
Lowest	-4.27	-7.67	-7.41	-10.93		
Middle	-4.68	-7.59	-8.14	-11.00	8.00	Pass
Highest	-4.58	-7.28	-7.68	-10.92		

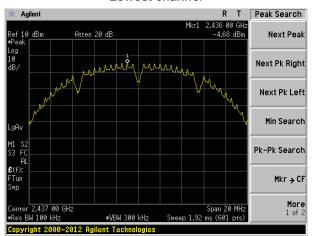


Test plot as follows:

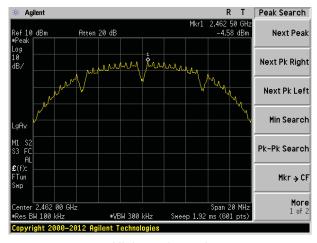
Test mode: 802.11b



Lowest channel



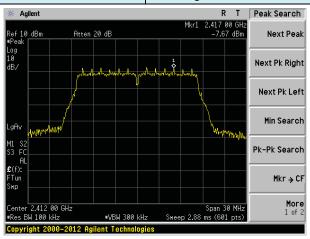
Middle channel



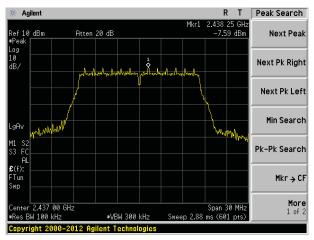
Highest channel



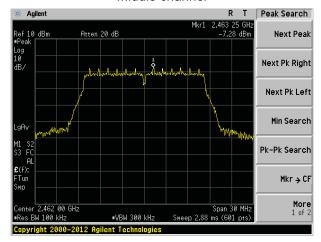
Test mode: 802.11g



Lowest channel



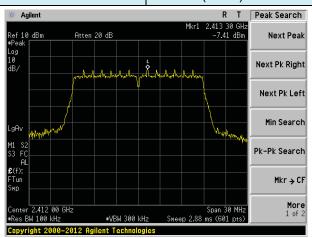
Middle channel



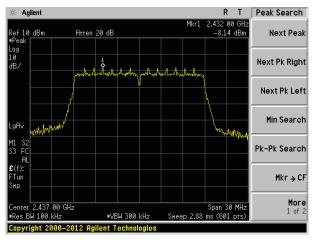
Highest channel



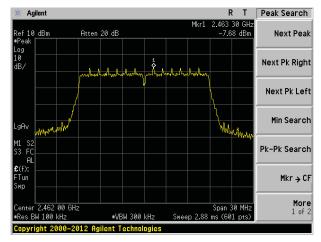
Test mode: 802.11n(HT20)



Lowest channel



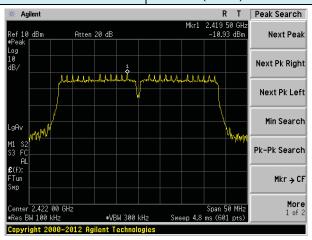
Middle channel



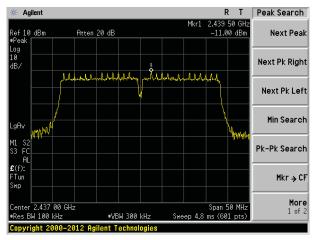
Highest channel



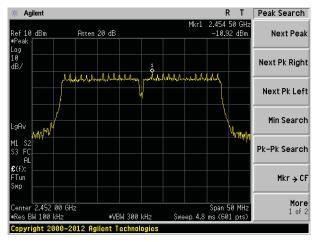
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



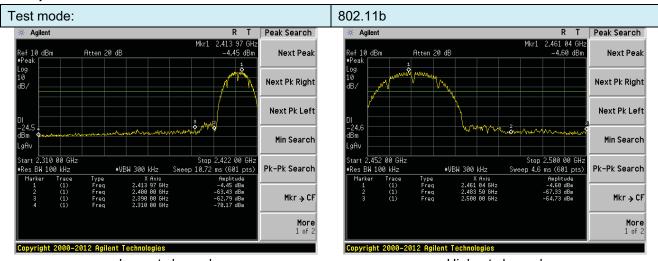
7.6 Band edges

7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

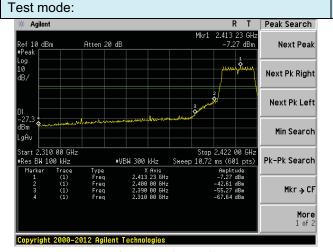


Test plot as follows:

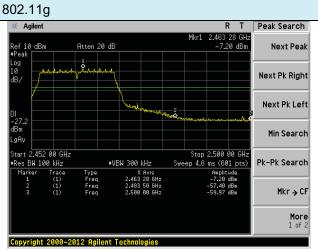


Lowest channel

Highest channel

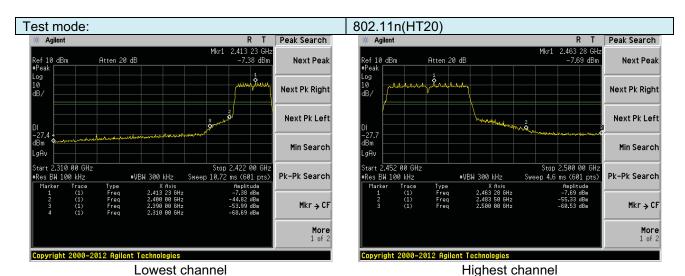


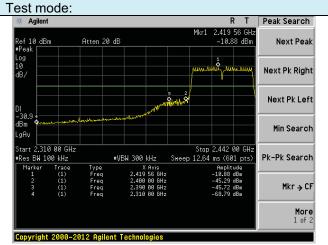
Lowest channel



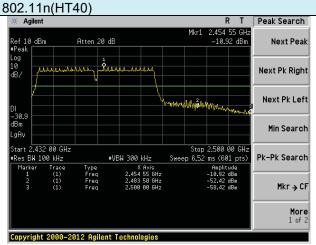
Highest channel











Highest channel



7.6.2 Radiated Emission Method

7.6.2 Radiated Emission W	_					
Test Requirement:	FCC Part15 C Section 15.209 and 15.205					
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.					
Test site:	Measurement D					
Receiver setup:	Frequency	Detector	RBW	VBW	Value	
receiver setup.	Trequency	Peak	1MHz	3MHz	Peak	
	Above 1GHz	RMS	1MHz	3MHz	Average	
Limit:	Freque		_imit (dBuV/		Value	
			54.0		Average	
	Above 1	GHZ	74.0	0	Peak	
Test setup:	EUT → 3m < Turn Table	Horn Antenna Spectrum Analyzer				
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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. 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. 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 					
Test Instruments:	Refer to section	node is recorded 6.0 for details	·			
Test mode:	Refer to section	5.3 for details				
Test results:	Pass					



Lowest

Measurement data:

Test mode:

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 channel:

802.11b

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	51.69	27.59	5.38	34.01	50.65	74.00	-23.35	Horizontal
2400.00	60.72	27.58	5.39	34.01	59.68	74.00	-14.32	Horizontal
2390.00	53.38	27.59	5.38	34.01	52.34	74.00	-21.66	Vertical
2400.00	62.53	27.58	5.39	34.01	61.49	74.00	-12.51	Vertical
Average va	lue:				-			•
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	s Factor Level		Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	38.44	27.59	5.38	34.01	37.40	54.00	-16.60	Horizontal
2400.00	46.74	27.58	5.39	34.01	45.70	54.00	-8.30	Horizontal
2390.00	40.26	27.59	5.38 34.01		39.22	54.00	-14.78	Vertical
2400.00	47.87	27.58	5.39	5.39 34.01		54.00	-7.17	Vertical
-		-		-	-	-	-	-
Test mode:		802.11b		Te	st 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	52.37	27.53	5.47	33.92	51.45	74.00	-22.55	Horizontal
2500.00	48.18	27.55	5.49	29.93	51.29	74.00	-22.71	Horizontal
2483.50	54.63	27.53	5.47	33.92	53.71	74.00	-20.29	Vertical
2500.00	50.70	27.55	5.49	29.93	53.81	74.00	-20.19	Vertical
Average va	lue:							
Frequency	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Polarization

Remark:

(MHz)

2483.50

2500.00

2483.50

2500.00

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

(dB)

5.47

5.49

5.47

5.49

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

(dB)

33.92

29.93

33.92

29.93

(dBuV/m)

37.89

38.02

39.84

39.90

(dBuV/m)

54.00

54.00

54.00

54.00

(dBuV)

38.81

34.91

40.76

36.79

(dB/m)

27.53

27.55

27.53

27.55

(dB)

-16.11

-15.98

-14.16

-14.10

Horizontal

Horizontal

Vertical

Vertical



802.11g

Test mode:

Report No.: GTSE15120235701

Lowest

			. 9					
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	50.43	27.59	5.38	34.01	49.39	74.00	-24.61	Horizontal
2400.00	59.03	27.58	5.39	34.01	57.99	74.00	-16.01	Horizontal
2390.00	52.02	27.59	5.38	34.01	50.98	74.00	-23.02	Vertical
2400.00	60.50	27.58	5.39	34.01	59.46	74.00	-14.54	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	37.54	27.59	5.38	34.01	36.50	54.00	-17.50	Horizontal
2400.00	45.70	27.58	5.39	34.01	44.66	54.00	-9.34	Horizontal
2390.00	39.26	27.59	5.38	34.01	38.22	54.00	-15.78	Vertical
2400.00	46.73	27.58	5.39	34.01	45.69	54.00	-8.31	Vertical
Test mode: 802.11g		Tes	st channel:	F	Highest			
Peak value:				_				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	50.56	27.53	5.47	33.92	49.64	74.00	-24.36	Horizontal
2500.00	46.78	27.55	5.49	29.93	49.89	74.00	-24.11	Horizontal
2483.50	52.57	27.53	5.47	33.92	51.65	74.00	-22.35	Vertical
2500.00	49.06	27.55	5.49	29.93	52.17	74.00	-21.83	Vertical
Average va	lue:	1		1	T			T
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.72	27.53	5.47	33.92	36.80	54.00	-17.20	Horizontal
	34.05	27.55	5.49	29.93	37.16	54.00	-16.84	Horizontal
2500.00	04.00							
2500.00 2483.50	39.56	27.53	5.47	33.92	38.64	54.00	-15.36	Vertical

Test channel:

Remark:

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

 ${\it Xixiang Road, Baoan District, Shenzhen, Guangdong, China}$

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Report No.: GTSE15120235701

Test mode:		8	802.11n(HT20) Test channel:			Lowest				
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Fac	Antenna Cable Factor Loss (dB/m) (dB)		Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	50.63	27.5	59	5.38	34.0	1	49.59	74.00	-24.41	Horizontal
2400.00	59.30	27.5	58	5.39	34.0	1	58.26	74.00	-15.74	Horizontal
2390.00	52.24	27.5	59	5.38	34.0	1	51.20	74.00	-22.80	Vertical
2400.00	60.83	27.5	58	5.39	34.0	1	59.79	74.00	-14.21	Vertical
Average va	lue:									
Frequency (MHz)	Read Level (dBuV)	Ante Fac (dB/	tor	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	37.69	27.5	59	5.38	34.0	1	36.65	54.00	-17.35	Horizontal
2400.00	45.87	27.5	58	5.39	34.0	1	44.83	54.00	-9.17	Horizontal
2390.00	39.43	27.5	7.59 5.38		34.0	1	38.39	54.00	-15.61	Vertical
2400.00	46.92	27.58		5.39	34.01		45.88	54.00	-8.12	Vertical
Test mode:			802.1	1n(HT20)		Tes	st channel:		Highest	
Peak value:							,			
Frequency (MHz)	Read Level (dBuV)	Fac	Antenna Cable Factor Loss (dB/m) (dB)		Prear Fact (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2483.50	50.85	27.5	53	5.47	33.9	2	49.93	74.00	-24.07	Horizontal
2500.00	47.01	27.5	55	5.49	29.9	3	50.12	74.00	-23.88	Horizontal
2483.50	52.90	27.5	53	5.47	33.9	2	51.98	74.00	-22.02	Vertical
2500.00	49.32	27.5	55	5.49	29.93 52.43		52.43	74.00	-21.57	Vertical
Average va	lue:	1			T		T		T	, ,
Frequency (MHz)	Read Level (dBuV)	Ante Fac (dB/	tor	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2483.50	37.90	27.5	53	5.47	5.47 33.92		36.98	54.00	-17.02	Horizontal
2500.00	34.19	27.5	55	5.49	29.9	3	37.30	54.00	-16.70	Horizontal
2483.50	39.75	27.5	53	5.47	33.9	2	38.83	54.00	-15.17	Vertical
2500.00	36.03	27.5	55	5.49	29.9	3	39.14	54.00	-14.86	Vertical

Remark:

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^{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.



Test mode:		802.11n(HT40)		T	Test channel:		owest	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.81	27.59	5.38	34.01	48.77	74.00	-25.23	Horizontal
2400.00	58.21	27.58	5.39	34.01	57.17	74.00	-16.83	Horizontal
2390.00	51.37	27.59	5.38	34.01	50.33	74.00	-23.67	Vertical
2400.00	59.51	27.58	5.39	34.01	58.47	74.00	-15.53	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	37.10	27.59	5.38	34.01	36.06	54.00	-17.94	Horizontal
2400.00	45.20	27.58	5.39	34.01	44.16	54.00	-9.84	Horizontal
2390.00	38.78	27.59	5.38	34.01	37.74	54.00	-16.26	Vertical
2400.00	46.18	27.58	5.39	34.01	45.14	54.00	-8.86	Vertical
					•			
Test mode: 802		802.1	1n(HT40)	T	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	49.68	27.53	5.47	33.92	48.76	74.00	-25.24	Horizontal
2500.00	46.10	27.55	5.49	29.93	49.21	74.00	-24.79	Horizontal
2483.50	51.56	27.53	5.47	33.92	50.64	74.00	-23.36	Vertical
2500.00	48.26	27.55 5.49		29.93 51.37		74.00	-22.63	Vertical
Average va						I	I	1
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	37.19	27.53	5.47	33.92	36.27	54.00	-17.73	Horizontal
2500.00	33.64	27.55	5.49	29.93	36.75	54.00	-17.25	Horizontal
2483.50	38.97	27.53	5.47	33.92	38.05	54.00	-15.95	Vertical
2500.00	35.45	27.55	5.49	29.93	38.56	54.00	-15.44	Vertical

Remark:

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^{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.



7.7 Spurious Emission

7.7.1 Conducted Emission Method

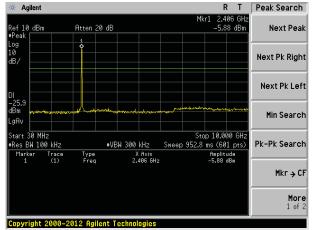
Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the 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

Lowest channel



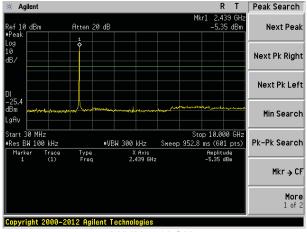
30MHz~10GHz

R T Peak Search Agilent ef 10 dBm Next Peak Atten 20 dB Next Pk Right Next Pk Left Min Search Stop 25.000 GH: Sweep 1.434 s (601 pts) Start 10.000 GHz #VBW 300 kHz Pk-Pk Search Res BW 100 kHz Type Freq Trace (1) Amplitude -61.44 dBm X Hxis 14.800 GHz Mkr → CF More 1 of 2

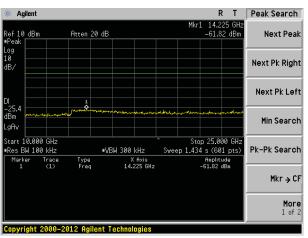
10GHz~25GHz

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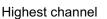
Middle channel

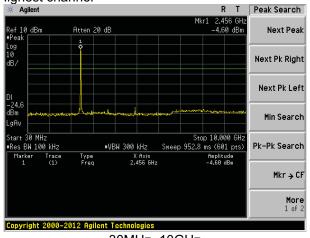


30MHz~10GHz

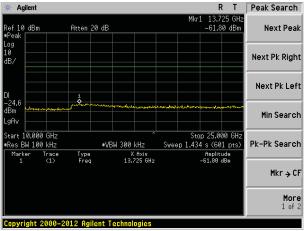


10GHz~25GHz





30MHz~10GHz



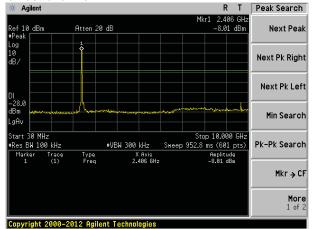
10GHz~25GHz



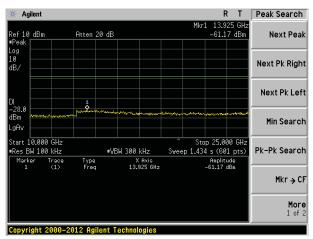
Test mode:

802.11g



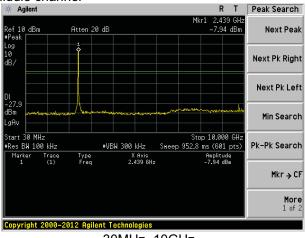


30MHz~10GHz

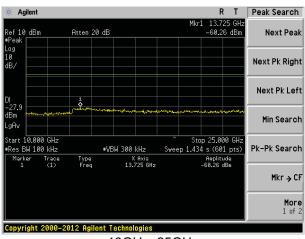


10GHz~25GHz

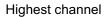
Middle channel

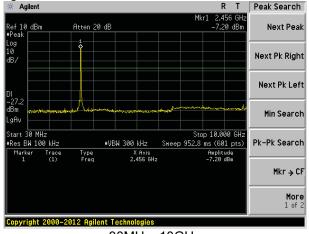


30MHz~10GHz

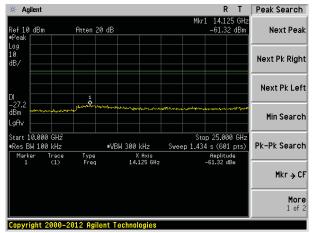


10GHz~25GHz





30MHz~10GHz



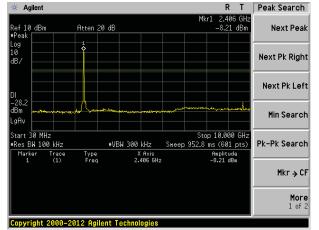
10GHz~25GHz



Test mode:

802.11n(HT20)

Lowest channel



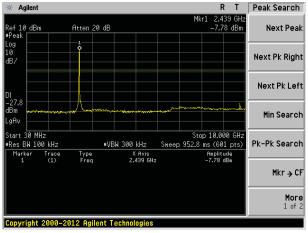
30MHz~10GHz

Peak Search Agilent 14.475 GH -61.78 dBm Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH: Sweep 1.434 s (601 pts) Start 10.000 GHz #VBW 300 kHz Pk-Pk Search Res BW 100 kHz Type Freq Amplitude -61.78 dBm X Axis 14.475 GHz Mkr → CF More 1 of 2

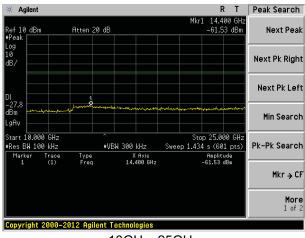
10GHz~25GHz

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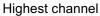
Middle channel

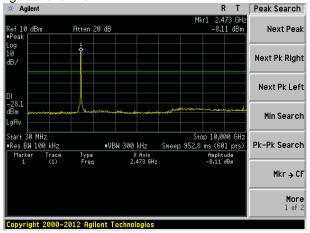


30MHz~10GHz

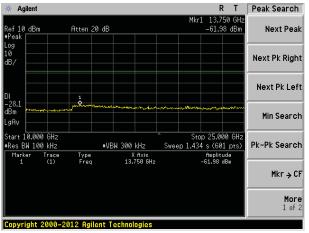


10GHz~25GHz





30MHz~10GHz



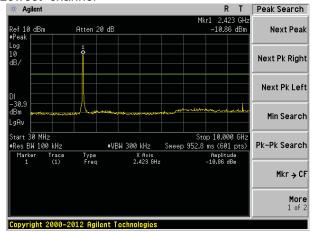
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

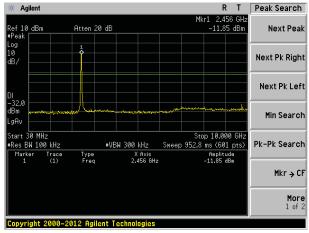


30MHz~10GHz

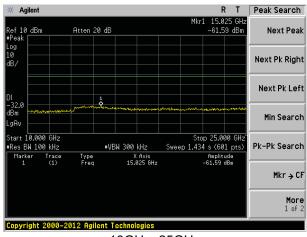
10GHz~25GHz

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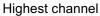
Middle channel

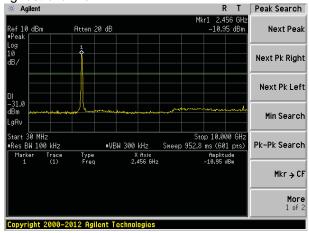


30MHz~10GHz

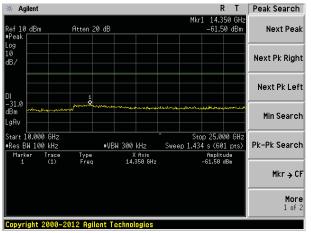


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

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7.7.2 Radiated Emission Method

	FCC Part15 C Se	ection 15.209								
Test Method:	ANSI C63.10:201	13								
Test Frequency Range:	30MHz to 25GHz	7								
Test site:	Measurement Dis	stance: 3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Value					
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak					
	Above 1GHz	Peak	1MHz	3MHz	Peak					
	Above IGHZ	RMS	1MHz	3MHz	Average					
Limit:	Frequen	су	Limit (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					
	A la	211-	54.0	0	Average					
	Above 10	Above 1GHz 74.00 Peak								
	Antenna Tower Search Antenna RF Test Receiver Ground Plane Above 1GHz Antenna Tower Horn Antenna Spectrum Analyzer									

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrrial Zone,

 ${\it Xixiang Road, Baoan District, Shenzhen, Guangdong, China}$

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



Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8 meters below 1G and 1.5 meters above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
	7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

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



Measurement Data

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
35.62	42.56	14.49	0.62	30.07	27.60	40.00	-12.40	Vertical
45.54	43.61	15.52	0.72	30.02	29.83	40.00	-10.17	Vertical
98.14	43.88	15.03	1.18	29.71	30.38	43.50	-13.12	Vertical
317.70	44.60	15.31	2.45	29.90	32.46	46.00	-13.54	Vertical
444.85	47.78	17.57	3.07	29.41	39.01	46.00	-6.99	Vertical
758.04	40.16	21.53	4.31	29.20	36.80	46.00	-9.20	Vertical
50.23	36.49	15.25	0.77	30.00	22.51	40.00	-17.49	Horizontal
98.14	41.14	15.03	1.18	29.71	27.64	43.50	-15.86	Horizontal
143.83	51.36	10.22	1.53	29.44	33.67	43.50	-9.83	Horizontal
297.22	45.38	15.00	2.35	29.99	32.74	46.00	-13.26	Horizontal
554.83	42.56	19.67	3.54	29.30	36.47	46.00	-9.53	Horizontal
790.62	37.24	21.96	4.42	29.20	34.42	46.00	-11.58	Horizontal



■ Above 1GHz

= Above	10112							
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	40.87	31.79	8.62	32.10	49.18	74.00	-24.82	Vertical
7236.00	34.58	36.19	11.68	31.97	50.48	74.00	-23.52	Vertical
9648.00	32.97	38.07	14.16	31.56	53.64	74.00	-20.36	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.45	31.79	8.62	32.10	47.76	74.00	-26.24	Horizontal
7236.00	34.29	36.19	11.68	31.97	50.19	74.00	-23.81	Horizontal
9648.00	32.53	38.07	14.16	31.56	53.20	74.00	-20.80	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	29.91	31.79	8.62	32.10	38.22	54.00	-15.78	Vertical
7236.00	23.44	36.19	11.68	31.97	39.34	54.00	-14.66	Vertical
9648.00	23.31	38.07	14.16	31.56	43.98	54.00	-10.02	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.96	31.79	8.62	32.10	37.27	54.00	-16.73	Horizontal
7236.00	22.86	36.19	11.68	31.97	38.76	54.00	-15.24	Horizontal
9648.00	22.27	38.07	14.16	31.56	42.94	54.00	-11.06	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
			1	1			1	

Remark:

16884.00

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Horizontal

54.00

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b		Te	est channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	· I level	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.83	31.85	8.66	32.12	48.22	74.00	-25.78	Vertical
7311.00	34.59	36.37	11.71	31.91	50.76	74.00	-23.24	Vertical
9748.00	33.95	38.27	14.25	31.56	54.91	74.00	-19.09	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.23	31.85	8.66	32.12	48.62	74.00	-25.38	Horizontal
7311.00	33.19	36.37	11.71	31.91	49.36	74.00	-24.64	Horizontal
9748.00	33.82	38.27	14.25	31.56	54.78	74.00	-19.22	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)	· I level	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.64	31.85	8.66	32.12	39.03	54.00	-14.97	Vertical
7311.00	22.90	36.37	11.71	31.91	39.07	54.00	-14.93	Vertical
9748.00	23.19	38.27	14.25	31.56	44.15	54.00	-9.85	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.32	31.85	8.66	32.12	38.71	54.00	-15.29	Horizontal
7311.00	22.27	36.37	11.71	31.91	38.44	54.00	-15.56	Horizontal
9748.00	23.53	38.27	14.25	31.56	44.49	54.00	-9.51	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

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Test mode:		802.11b		-	Test o	channel:		Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	45.70	31.90	8.70	32.1	5	54.15	74.0	00	-19.85	Vertical
7386.00	35.48	36.49	11.76	31.8	3	51.90	74.0	00	-22.10	Vertical
9848.00	37.40	38.62	14.31	31.7	7	58.56	74.0	00	-15.44	Vertical
12310.00	*						74.0	00		Vertical
14772.00	*						74.0	00		Vertical
17234.00	*						74.0	00		Vertical
4924.00	44.88	31.90	8.70	32.1	5	53.33	74.0	00	-20.67	Horizontal
7386.00	34.32	36.49	11.76	31.8	3	50.74	74.0	00	-23.26	Horizontal
9848.00	33.54	38.62	14.31	31.7	7	54.70	74.0	00	-19.30	Horizontal
12310.00	*						74.0	00		Horizontal
14772.00	*						74.0	00		Horizontal
17234.00	*						74.0	00		Horizontal
Average val										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	36.55	31.90	8.70	32.1	5	45.00	54.0	00	-9.00	Vertical
7386.00	25.38	36.49	11.76	31.8	3	41.80	54.0	00	-12.20	Vertical
9848.00	25.89	38.62	14.31	31.7	7	47.05	54.0	00	-6.95	Vertical
12310.00	*						54.0	00		Vertical
14772.00	*						54.0	00		Vertical
17234.00	*						54.0	00		Vertical
4924.00	35.20	31.90	8.70	32.1	5	43.65	54.0	00	-10.35	Horizontal
7386.00	23.70	36.49	11.76	31.8	3	40.12	54.0	00	-13.88	Horizontal
9848.00	22.79	38.62	14.31	31.7	7	43.95	54.0	00	-10.05	Horizontal
12310.00	*						54.0	00		Horizontal
14772.00	*						54.0	00		Horizontal
17234.00	*						54.0	00		Horizontal

Remark:

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

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Test mode:		802.11g		-	Test c	channel:		lowes	st	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4824.00	39.77	31.79	8.62	32.1	0	48.08	74.	00	-25.92	Vertical
7236.00	33.88	36.19	11.68	31.9	7	49.78	74.	00	-24.22	Vertical
9648.00	32.48	38.07	14.16	31.5	6	53.15	74.	00	-20.85	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4824.00	38.52	31.79	8.62	32.1	0	46.83	74.	00	-27.17	Horizontal
7236.00	33.68	36.19	11.68	31.9	7	49.58	74.	00	-24.42	Horizontal
9648.00	32.07	38.07	14.16	31.5	6	52.74	74.	00	-21.26	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)	Prear Fact (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4824.00	28.89	31.79	8.62	32.1	0	37.20	54.	00	-16.80	Vertical
7236.00	22.76	36.19	11.68	31.9	7	38.66	54.	00	-15.34	Vertical
9648.00	22.83	38.07	14.16	31.5	6	43.50	54.	00	-10.50	Vertical
12060.00	*						54.	00		Vertical
14472.00	*						54.	00		Vertical
16884.00	*						54.	00		Vertica
4824.00	28.08	31.79	8.62	32.1	0	36.39	54.	00	-17.61	Horizontal
7236.00	22.27	36.19	11.68	31.9	7	38.17	54.	00	-15.83	Horizontal
9648.00	21.83	38.07	14.16	31.5	6	42.50	54.	00	-11.50	Horizontal
12060.00	*						54.	00		Horizontal
14472.00	*						54.	00		Horizontal
16884.00	*						54.	00		Horizontal

Remark:

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

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Test mode:		802.11g			Test	channel:		Midd	le	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	38.91	31.85	8.66	32.	12	47.30	74.	00	-26.70	Vertical
7311.00	34.01	36.37	11.71	31.	91	50.18	74.	00	-23.82	Vertical
9748.00	33.54	38.27	14.25	31.	56	54.50	74.	00	-19.50	Vertical
12185.00	*						74.	00		Vertical
14622.00	*						74.	00		Vertical
17059.00	*						74.	00		Vertical
4874.00	39.46	31.85	8.66	32.	12	47.85	74.	00	-26.15	Horizontal
7311.00	32.69	36.37	11.71	31.	91	48.86	74.	00	-25.14	Horizontal
9748.00	33.44	38.27	14.25	31.	56	54.40	74.	00	-19.60	Horizontal
12185.00	*						74.0	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)	Prea Fac (dl	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	29.80	31.85	8.66	32.	12	38.19	54.	00	-15.81	Vertical
7311.00	22.34	36.37	11.71	31.	91	38.51	54.	00	-15.49	Vertical
9748.00	22.80	38.27	14.25	31.	56	43.76	54.	00	-10.24	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	29.60	31.85	8.66	32.	12	37.99	54.	00	-16.01	Horizontal
7311.00	21.78	36.37	11.71	31.	91	37.95	54.	00	-16.05	Horizontal
9748.00	23.16	38.27	14.25	31.	56	44.12	54.	00	-9.88	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*						54.0	00		Horizontal

Remark:

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

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Test mode:		802.11g		Test	channel:	Highe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	44.13	31.90	8.70	32.15	52.58	74.00	-21.42	Vertical
7386.00	34.49	36.49	11.76	31.83	50.91	74.00	-23.09	Vertical
9848.00	36.69	38.62	14.31	31.77	57.85	74.00	-16.15	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.55	31.90	8.70	32.15	52.00	74.00	-22.00	Horizontal
7386.00	33.45	36.49	11.76	31.83	49.87	74.00	-24.13	Horizontal
9848.00	32.89	38.62	14.31	31.77	54.05	74.00	-19.95	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val			,					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	35.10	31.90	8.70	32.15	43.55	54.00	-10.45	Vertical
7386.00	24.42	36.49	11.76	31.83	40.84	54.00	-13.16	Vertical
9848.00	25.20	38.62	14.31	31.77	46.36	54.00	-7.64	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.95	31.90	8.70	32.15	42.40	54.00	-11.60	Horizontal
7386.00	22.85	36.49	11.76	31.83	39.27	54.00	-14.73	Horizontal
9848.00	22.16	38.62	14.31	31.77	43.32	54.00	-10.68	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

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Test mode:		802.11n(H	IT20)		Test	channel:		Lowe	st	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4824.00	40.14	31.79	8.62	32.	10	48.45	74.	00	-25.55	Vertical
7236.00	34.12	36.19	11.68	31.	97	50.02	74.	00	-23.98	Vertical
9648.00	32.65	38.07	14.16	31.	56	53.32	74.	00	-20.68	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4824.00	38.84	31.79	8.62	32.	10	47.15	74.	00	-26.85	Horizontal
7236.00	33.88	36.19	11.68	31.	97	49.78	74.	00	-24.22	Horizontal
9648.00	32.23	38.07	14.16	31.	56	52.90	74.	00	-21.10	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)	Prea Fac (dl	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4824.00	29.24	31.79	8.62	32.	10	37.55	54.	00	-16.45	Vertical
7236.00	22.99	36.19	11.68	31.	97	38.89	54.	00	-15.11	Vertical
9648.00	23.00	38.07	14.16	31.	56	43.67	54.	00	-10.33	Vertical
12060.00	*						54.	00		Vertical
14472.00	*						54.	00		Vertical
16884.00	*						54.	00		Vertical
4824.00	28.38	31.79	8.62	32.	10	36.69	54.	00	-17.31	Horizontal
7236.00	22.47	36.19	11.68	31.	97	38.37	54.	00	-15.63	Horizontal
9648.00	21.98	38.07	14.16	31.	56	42.65	54.	00	-11.35	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	39.23	31.85	8.66	32.12	47.62	74.00	-26.38	Vertical
7311.00	34.21	36.37	11.71	31.91	50.38	74.00	-23.62	Vertical
9748.00	33.68	38.27	14.25	31.56	54.64	74.00	-19.36	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.72	31.85	8.66	32.12	48.11	74.00	-25.89	Horizontal
7311.00	32.86	36.37	11.71	31.91	49.03	74.00	-24.97	Horizontal
9748.00	33.57	38.27	14.25	31.56	54.53	74.00	-19.47	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	30.09	31.85	8.66	32.12	38.48	54.00	-15.52	Vertical
7311.00	22.53	36.37	11.71	31.91	38.70	54.00	-15.30	Vertical
9748.00	22.93	38.27	14.25	31.56	43.89	54.00	-10.11	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.84	31.85	8.66	32.12	38.23	54.00	-15.77	Horizontal
7311.00	21.95	36.37	11.71	31.91	38.12	54.00	-15.88	Horizontal
9748.00	23.29	38.27	14.25	31.56	44.25	54.00	-9.75	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

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Test mode:		802.11n(H	IT20)	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	44.67	31.90	8.70	32.15	53.12	74.00	-20.88	Vertical
7386.00	34.83	36.49	11.76	31.83	51.25	74.00	-22.75	Vertical
9848.00	36.93	38.62	14.31	31.77	58.09	74.00	-15.91	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.01	31.90	8.70	32.15	52.46	74.00	-21.54	Horizontal
7386.00	33.75	36.49	11.76	31.83	50.17	74.00	-23.83	Horizontal
9848.00	33.11	38.62	14.31	31.77	54.27	74.00	-19.73	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	35.60	31.90	8.70	32.15	44.05	54.00	-9.95	Vertical
7386.00	24.75	36.49	11.76	31.83	41.17	54.00	-12.83	Vertical
9848.00	25.44	38.62	14.31	31.77	46.60	54.00	-7.40	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.38	31.90	8.70	32.15	42.83	54.00	-11.17	Horizontal
7386.00	23.14	36.49	11.76	31.83	39.56	54.00	-14.44	Horizontal
9848.00	22.37	38.62	14.31	31.77	43.53	54.00	-10.47	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

 ${\it Xixiang Road, Baoan District, Shenzhen, Guangdong, China}$

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¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT40)	Те	st channel:	Lowe	est	
Peak value:		'				<u> </u>		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	i levei	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	39.09	31.81	8.63	32.11	47.42	74.00	-26.58	Vertical
7266.00	33.46	36.28	11.69	31.94	49.49	74.00	-24.51	Vertical
9688.00	32.17	38.13	14.21	31.52	52.99	74.00	-21.01	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	37.95	31.81	8.63	32.11	46.28	74.00	-27.72	Horizontal
7266.00	33.30	36.28	11.69	31.94	49.33	74.00	-24.67	Horizontal
9688.00	31.79	38.13	14.21	31.52	52.61	74.00	-21.39	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Average var								
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	28.27	31.81	8.63	32.11	36.60	54.00	-17.40	Vertical
7266.00	22.35	36.28	11.69	31.94	38.38	54.00	-15.62	Vertical
9688.00	22.54	38.13	14.21	31.52	43.36	54.00	-10.64	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.55	31.81	8.63	32.11	35.88	54.00	-18.12	Horizontal
7266.00	21.90	36.28	11.69	31.94	37.93	54.00	-16.07	Horizontal
9688.00	21.56	38.13	14.21	31.52	42.38	54.00	-11.62	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	IT40)	Test c		channel: M		liddle	
Peak value:							•		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Lir (dBuV/n	I I imit	polarization
4874.00	38.35	31.85	8.66	32	.12	46.74	74.00	-27.26	Vertical
7311.00	33.66	36.37	11.71	31	.91	49.83	74.00	-24.17	Vertical
9748.00	33.28	38.27	14.25	31	.56	54.24	74.00	-19.76	Vertical
12185.00	*						74.00		Vertical
14622.00	*						74.00		Vertical
17059.00	*						74.00		Vertical
4874.00	38.99	31.85	8.66	32	.12	47.38	74.00	-26.62	Horizontal
7311.00	32.38	36.37	11.71	31.91		48.55	74.00	-25.45	Horizontal
9748.00	33.21	38.27	14.25	31.56		54.17	74.00	-19.83	Horizontal
12185.00	*						74.00		Horizontal
14622.00	*						74.00		Horizontal
17059.00	*						74.00		Horizontal
Average val			,						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor IB)	Level (dBuV/m)	Limit Lir (dBuV/n	I I Imit	polarization
4874.00	29.28	31.85	8.66	32	.12	37.67	54.00	-16.33	Vertical
7311.00	22.00	36.37	11.71	31	.91	38.17	54.00	-15.83	Vertical
9748.00	22.55	38.27	14.25	31	.56	43.51	54.00	-10.49	Vertical
12185.00	*						54.00		Vertical
14622.00	*						54.00		Vertical
17059.00	*						54.00		Vertical
4874.00	29.15	31.85	8.66	32.12		37.54	54.00	-16.46	Horizontal
7311.00	21.48	36.37	11.71	31.91		37.65	54.00	-16.35	Horizontal
9748.00	22.94	38.27	14.25	31	.56	43.90	54.00	-10.10	Horizontal
12185.00	*						54.00		Horizontal
14622.00	*						54.00		Horizontal
17059.00	*						54.00		Horizontal

Remark:

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

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Test mode:		802.11n(HT40)		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
4904.00	43.16	31.88	8.68	32.13	51.59	74.00	-22.41	Vertical
7356.00	33.88	36.45	11.75	31.86	50.22	74.00	-23.78	Vertical
9808.00	36.25	38.43	14.29	31.68	57.29	74.00	-16.71	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	42.73	31.88	8.68	32.13	51.16	74.00	-22.84	Horizontal
7356.00	32.92	36.45	11.75	31.86	49.26	74.00	-24.74	Horizontal
9808.00	32.48	38.43	14.29	31.68	53.52	74.00	-20.48	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	34.21	31.88	8.68	32.13	42.64	54.00	-11.36	Vertical
7356.00	23.83	36.45	11.75	31.86	40.17	54.00	-13.83	Vertical
9808.00	24.79	38.43	14.29	31.68	45.83	54.00	-8.17	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	33.19	31.88	8.68	32.13	41.62	54.00	-12.38	Horizontal
7356.00	22.33	36.45	11.75	31.86	38.67	54.00	-15.33	Horizontal
9808.00	21.77	38.43	14.29	31.68	42.81	54.00	-11.19	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

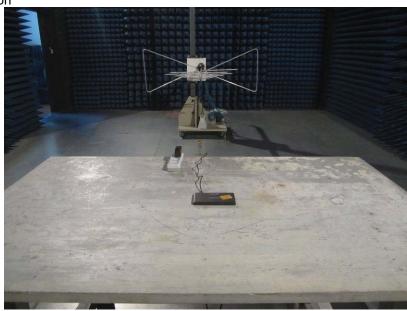
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

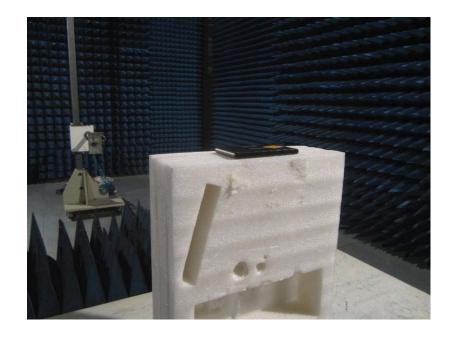
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







Conducted Emission



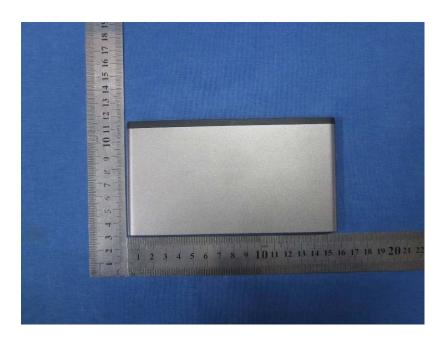


9 EUT Constructional Details









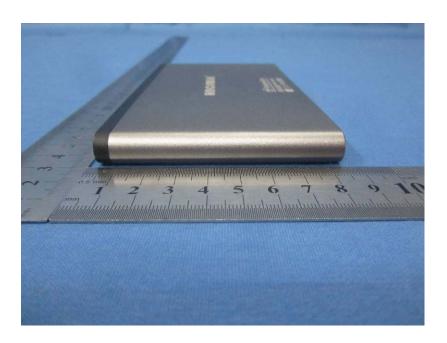


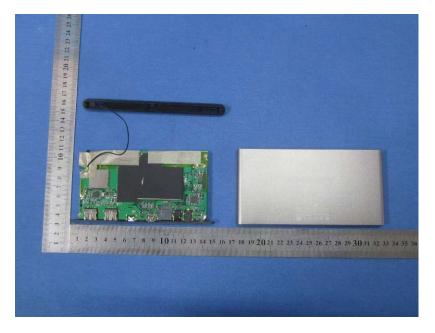






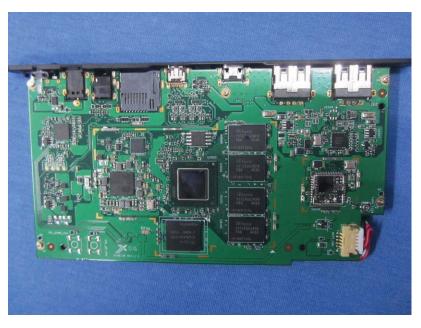




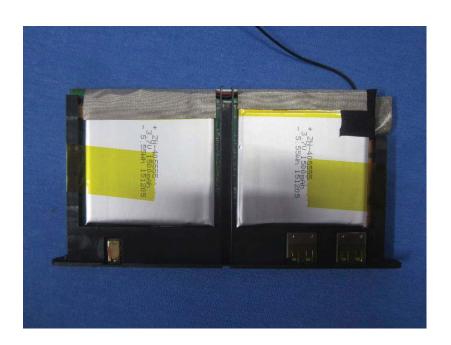


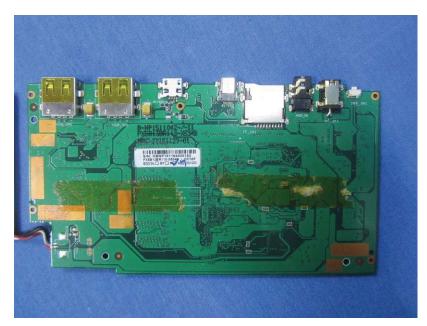




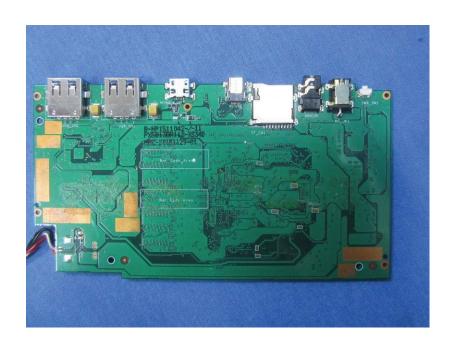


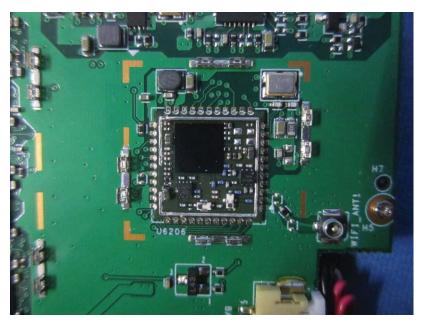


















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