

Global United Technology Services Co., Ltd.

Report No.: GTSE14030020401

FCC REPORT

Applicant: SHENZHEN GIEC ELECTRONICS CO., LTD.

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

Shenzhen, Guangdong, China

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: **V917G EVO**

FCC ID: ZVRMIDD9018GKO001

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

Date of sample receipt: 06 March, 2014

Date of Test: 06-17 March, 2014

Date of report issued: 17 March, 2014

Test Result: PASS *

Authorized Signature:

Robinson Lo **Laboratory Manager**

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

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



2 Version

Version No.	Date	Description
00	17 March, 2014	Original

Prepared By:	hank yan.	Date:	17 March, 2014	
	Project Engineer			
Check By:	Hans. Hu	Date:	17 March, 2014	
	Reviewer			_

Shenzhen, China 518102



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4 Test Summary

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

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

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5 General Information

5.1 Client Information

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

5.2 General Description of EUT

Product Name:	Tablet PC
Model No.:	V917G EVO
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:	2.00dBi (declare by Applicant)
Power supply:	Model No.: HB10U-0502004SPA
	Input: AC 100-240V, 50/60Hz, 0.4A
	Output: DC 5V, 2A
	Or
	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	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

5.4 Description of Support Units

None.

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

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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, July 20, 2010.

• Industry Canada (IC)

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

Rad	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. 23 2014	Feb. 22 2015		
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 2014		
2	EMI Test Receiver	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:

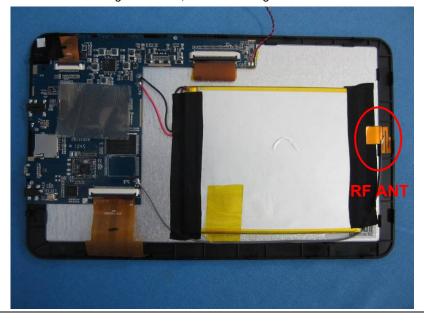
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 2.0dBi





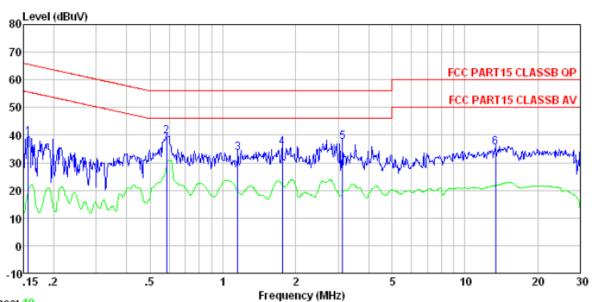
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.4:2003				
Test Frequency Range:	150KHz to 30MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto			
Limit:	Frequency range (MHz)	Limit (c	lBuV)		
		Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
-	* Decreases with the logarithm	•			
Test setup:	Reference Plane		•		
AUX Equipment E.U.T 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 C63.4: 2003 on conducted measurement. 				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				



Measurement data

Line:



Trace: 10

Condition : FCC PART15 CLASSB QP LISN-2013 LINE

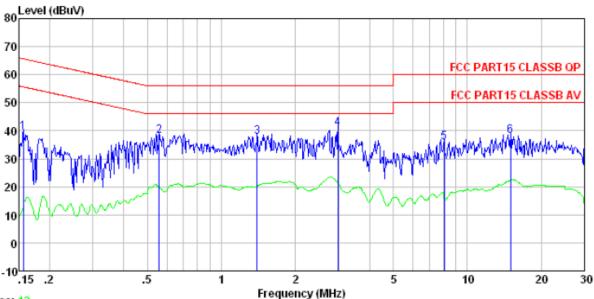
Job No. : 0204RF Test mode : WiFi mode

Test Engineer: Liu

CSC	Diigineer.	Read	LISN					
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBuV	dB	d₿	dBuV	dBuV	dB	
1	0.157	38.86	0.15	0.12	39.13	65.60	-26.47	QP
2	0.585	39.38	0.13	0.12	39.63	56.00	-16.37	QP
3	1.153	33.25	0.13	0.13	33.51	56.00	-22.49	QP
4 5	1.762	35.09	0.12	0.14	35.35	56.00	-20.65	QP
5	3.123	37.06	0.16	0.15	37.37	56.00	-18.63	QP
6	13.408	34.82	0.32	0.21	35.35	60.00	-24.65	QP



Neutral:



Trace: 12

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0204RF Test mode : WiFi mode

Test Engineer: Liu

	Freq		LISN Factor					Remark
	MHz	dBuV	dB	dB	dBu₹	dBuV	dB	
1			0.07					
2	1.396	37.47	0.07 0.09	0.13	37.69	56.00	-18.31	QP
4 5	2. 978 8. 062		0.11 0.19					
6	14.986	37.69	0.33	0.22	38.24	60.00	-21.76	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

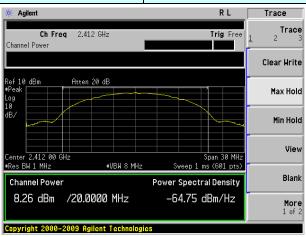
Test CH		Peak Outp	Limit(dBm)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesuit
Lowest	8.26	7.90	8.12	7.51		Pass
Middle	8.48	7.84	8.12	7.55	30.00	
Highest	8.11	8.02	8.04	7.58		

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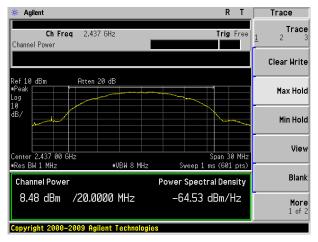


Test plot as follows:

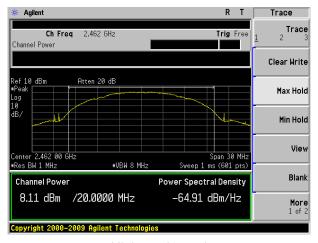
Test mode: 802.11b



Lowest channel



Middle channel

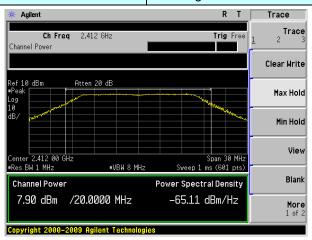


Highest channel

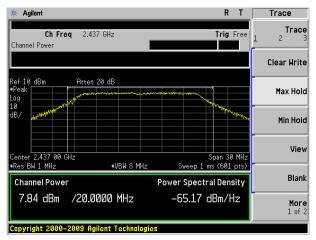
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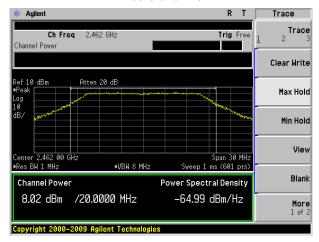
Test mode: 802.11g



Lowest channel



Middle channel



Highest channel

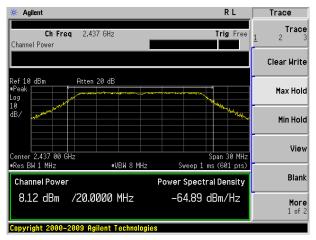
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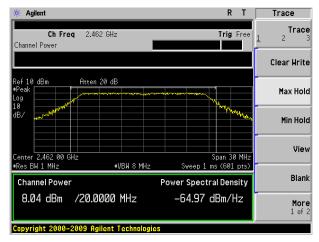
Test mode: 802.11n(HT20)



Lowest channel



Middle channel



Highest channel

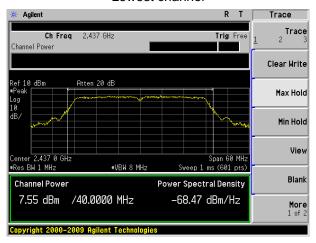
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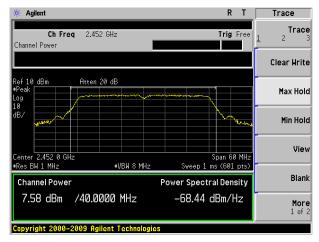
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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7.4 Channel Bandwidth

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

Measurement Data

Test CH		Channel Ban	Limit(KHz)	Result		
Test CH	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littiit(IXI 12)	Result
Lowest	10.097	16.500	17.639	35.680		Pass
Middle	9.586	16.480	17.666	35.342	>500	
Highest	10.034	16.420	17.660	35.776		

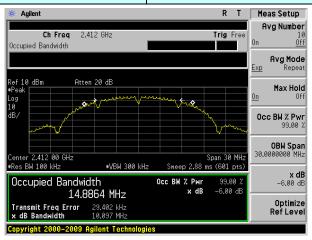
Test plot as follows:

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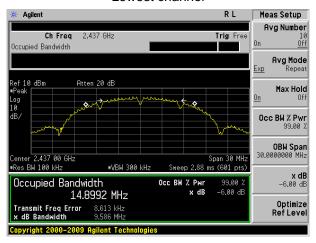


Project No.: GTSE140300204RF

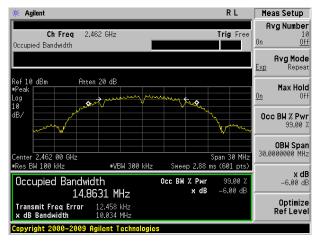
Test mode: 802.11b



Lowest channel



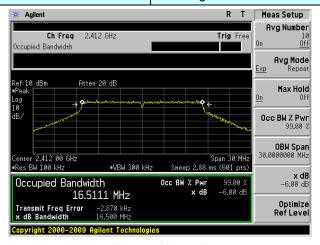
Middle channel



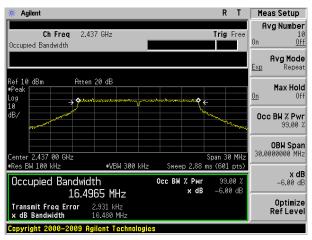
Highest channel



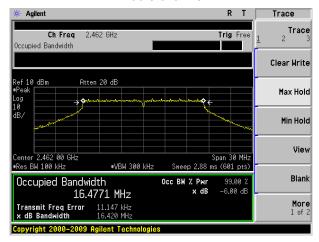
Test mode: 802.11g



Lowest channel



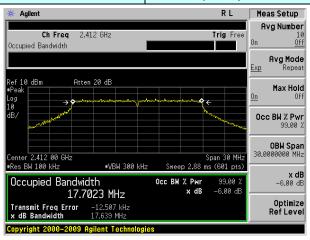
Middle channel



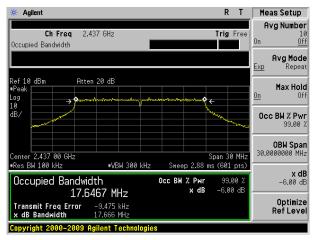
Highest channel



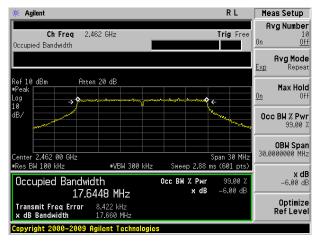
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

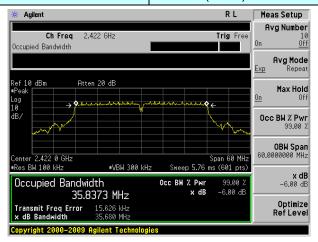


Highest channel

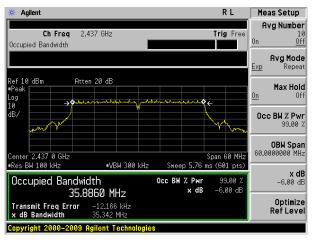
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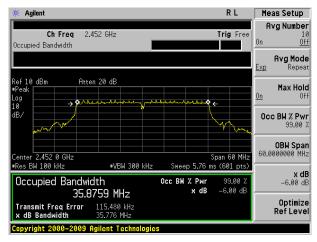
Test mode: 802.11n(HT40)



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

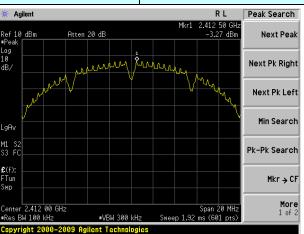
Test CH		Power Spectra	Limit(dBm/3kHz)	Result		
rest Orr	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	LIIIII((dDIII/3KI IZ)	Nesuit
Lowest	-3.27	-8.34	-7.87	-10.55		Pass
Middle	-3.38	-8.18	-7.89	-10.08	8.00	
Highest	-3.37	-7.77	-7.60	-10.72		

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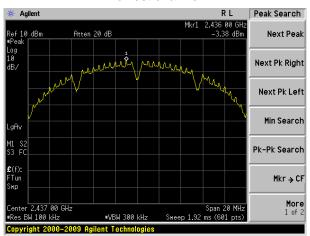


Test plot as follows:

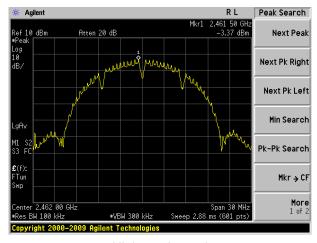
Test mode: 802.11b



Lowest channel



Middle channel

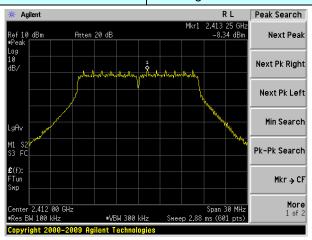


Highest channel

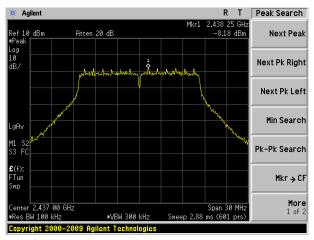
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



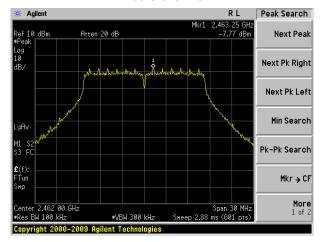
Test mode: 802.11g



Lowest channel



Middle channel

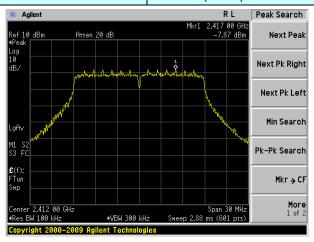


Highest channel

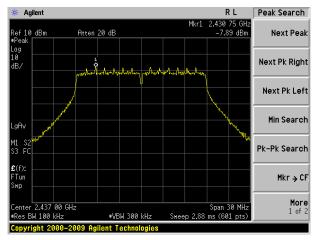
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



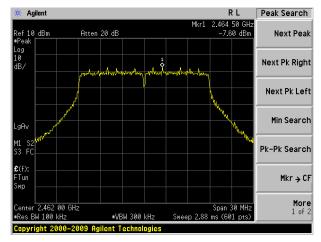
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

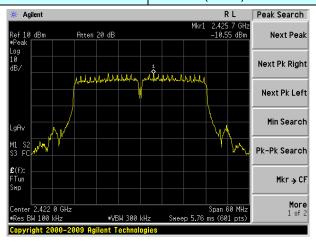


Highest channel

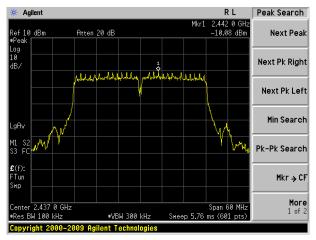
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



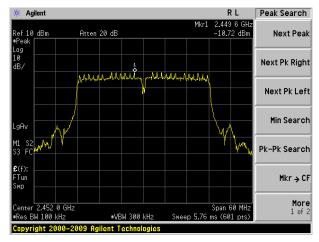
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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



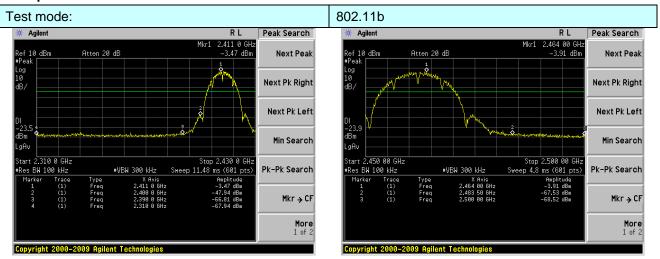
7.6 Band edges

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				



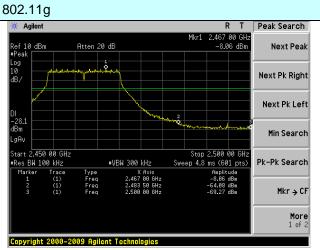
Test plot as follows:



Lowest channel

Highest channel

Lowest channel

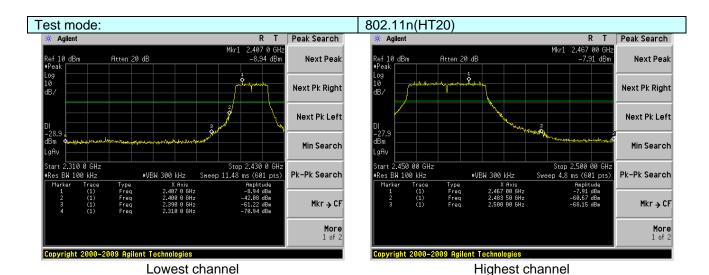


Highest channel

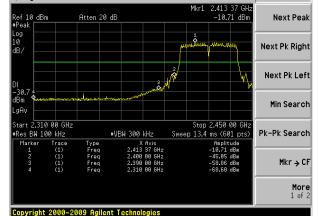
Shenzhen, China 518102

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









Lowest channel



Highest channel



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205						
Test Method:	ANSI C63.4: 2003						
Test Frequency Range:			tested, only	the worst ba	and's (2310MHz to		
	2500MHz) data						
Test site:	Measurement D	istance: 3m					
Receiver setup:	Frequency	Detector	RBW	VBW	Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak		
	7.00VC TOTIZ	Peak	1MHz	10Hz	Average		
Limit:	Freque	ncy	Limit (dBuV/		Value		
	Above 1	GHz	54.0		Average		
Test setup:	7.0010	02	74.0	0	Peak		
	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table Amplifier						
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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	ode is recorde		··••			
Test mode:	Refer to section	Refer to section 5.3 for details 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	
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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	49.97	27.59	5.38	34.01	48.93	74.00	-25.07	Horizontal
2400.00	58.43	27.58	5.39	34.01	57.39	74.00	-16.61	Horizontal
2390.00	51.54	27.59	5.38	34.01	50.50	74.00	-23.50	Vertical
2400.00	59.77	27.58	5.39	34.01	58.73	74.00	-15.27	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.22	27.59	5.38	34.01	36.18	54.00	-17.82	Horizontal
2400.00	45.33	27.58	5.39	34.01	44.29	54.00	-9.71	Horizontal
2390.00	38.90	27.59	5.38	34.01	37.86	54.00	-16.14	Vertical
2400.00	46.33	27.58	5.39	34.01	45.29	54.00	-8.71	Vertical

Test mode: 802.11b	Test channel:	Highest
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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	49.91	27.53	5.47	33.92	48.99	74.00	-25.01	Horizontal
2500.00	46.28	27.55	5.49	29.93	49.39	74.00	-24.61	Horizontal
2483.50	51.83	27.53	5.47	33.92	50.91	74.00	-23.09	Vertical
2500.00	48.47	27.55	5.49	29.93	51.58	74.00	-22.42	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.33	27.53	5.47	33.92	36.41	54.00	-17.59	Horizontal
2500.00	33.75	27.55	5.49	29.93	36.86	54.00	-17.14	Horizontal
2483.50	39.13	27.53	5.47	33.92	38.21	54.00	-15.79	Vertical
2500.00	35.57	27.55	5.49	29.93	38.68	54.00	-15.32	Vertical

Remark:

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

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102



Report No.: GTSE14030020401

Test mode:		802.1	1g	Т	est channel:		Lowest	
Peak value:	<u> </u>	·		<u>'</u>				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.08	27.59	5.38	34.01	48.04	74.00	-25.96	Horizontal
2400.00	57.23	27.58	5.39	34.01	56.19	74.00	-17.81	Horizontal
2390.00	50.58	27.59	5.38	34.01	49.54	74.00	-24.46	Vertical
2400.00	58.33	27.58	5.39	34.01	57.29	74.00	-16.71	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	36.58	27.59	5.38	34.01	35.54	54.00	-18.46	Horizontal
2400.00	44.60	27.58	5.39	34.01	43.56	54.00	-10.44	Horizontal
2390.00	38.19	27.59	5.38	34.01	37.15	54.00	-16.85	Vertical
2400.00	45.52	27.58	5.39	34.01	44.48	54.00	-9.52	Vertical
Test mode:		802.1	1g	Т	est 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	48.63	27.53	5.47	33.92	47.71	74.00	-26.29	Horizontal
2500.00	45.28	27.55	5.49	29.93	48.39	74.00	-25.61	Horizontal
2483.50	50.36	27.53	5.47	33.92	49.44	74.00	-24.56	Vertical
2500.00	47.31	27.55	5.49	29.93	50.42	74.00	-23.58	Vertical
Average va	lue:						•	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.56	27.53	5.47	33.92	35.64	54.00	-18.36	Horizontal
2500.00	33.15	27.55	5.49	29.93	36.26	54.00	-17.74	Horizontal
2483.50	38.27	27.53	5.47	33.92	37.35	54.00	-16.65	Vertical
2500.00	34.93	27.55	5.49	29.93	38.04	54.00	-15.96	Vertical
Remark:								

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

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102



Test mode:

Report No.: GTSE14030020401

Lowest

Peak value:				*				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.43	27.59	5.38	34.01	48.39	74.00	-25.61	Horizontal
2400.00	57.70	27.58	5.39	34.01	56.66	74.00	-17.34	Horizontal
2390.00	50.96	27.59	5.38	34.01	49.92	74.00	-24.08	Vertical
2400.00	58.90	27.58	5.39	34.01	57.86	74.00	-16.14	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	36.83	27.59	5.38	34.01	35.79	54.00	-18.21	Horizontal
2400.00	44.89	27.58	5.39	34.01	43.85	54.00	-10.15	Horizontal
2390.00	38.47	27.59	5.38	34.01	37.43	54.00	-16.57	Vertical
2400.00	45.84	27.58	5.39	34.01	44.80	54.00	-9.20	Vertical
		_						
Test mode:		802.1	1n(HT20)	Tes	st channel:	H	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	49.14	27.53	5.47	33.92	48.22	74.00	-25.78	Horizontal
2500.00	45.67	27.55	5.49	29.93	48.78	74.00	-25.22	Horizontal
2483.50	50.94	27.53	5.47	33.92	50.02	74.00	-23.98	Vertical
2500.00	47.77	27.55	5.49	29.93	50.88	74.00	-23.12	Vertical
Average va	lue:				_			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.86	27.53	5.47	33.92	35.94	54.00	-18.06	Horizontal
2500.00	33.39	27.55	5.49	29.93	36.50	54.00	-17.50	Horizontal
2483.50	38.61	27.53	5.47	33.92	37.69	54.00	-16.31	Vertical
2500.00	35.18	27.55	5.49	29.93	38.29	54.00	-15.71	Vertical
Remark:	aval Dagai							

Test channel:

802.11n(HT20)

Global United Technology Services Co., Ltd.

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

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

Shenzhen, China 518102

1.



Test mode:

Report No.: GTSE14030020401

Lowest

Peak value:		•		•		•		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	48.58	27.59	5.38	34.01	47.54	74.00	-26.46	Horizontal
2400.00	56.56	27.58	5.39	34.01	55.52	74.00	-18.48	Horizontal
2390.00	50.05	27.59	5.38	34.01	49.01	74.00	-24.99	Vertical
2400.00	57.53	27.58	5.39	34.01	56.49	74.00	-17.51	Vertical
Average va	lue:				•			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	36.23	27.59	5.38	34.01	35.19	54.00	-18.81	Horizontal
2400.00	44.19	27.58	5.39	34.01	43.15	54.00	-10.85	Horizontal
2390.00	37.80	27.59	5.38	34.01	36.76	54.00	-17.24	Vertical
2400.00	45.08	27.58	5.39	34.01	44.04	54.00	-9.96	Vertical
•				•	•			
Test mode:		802.1	1n(HT40)	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	47.92	27.53	5.47	33.92	47.00	74.00	-27.00	Horizontal
2500.00	44.73	27.55	5.49	29.93	47.84	74.00	-26.16	Horizontal
2483.50	49.55	27.53	5.47	33.92	48.63	74.00	-25.37	Vertical
2500.00	46.66	27.55	5.49	29.93	49.77	74.00	-24.23	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.13	27.53	5.47	33.92	35.21	54.00	-18.79	Horizontal
2500.00	32.81	27.55	5.49	29.93	35.92	54.00	-18.08	Horizontal
2483.50	37.80	27.53	5.47	33.92	36.88	54.00	-17.12	Vertical
2500.00	34.57	27.55	5.49	29.93	37.68	54.00	-16.32	Vertical
Remark:								

Test channel:

802.11n(HT40)

Global United Technology Services Co., Ltd.

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

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

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

Shenzhen, China 518102



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					

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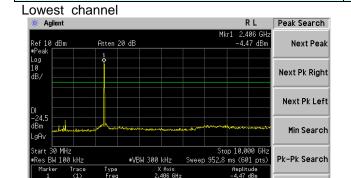
Test plot as follows:

Test mode:

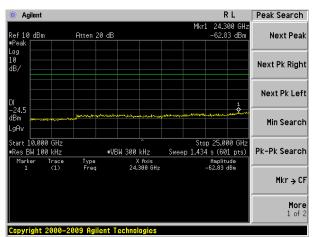
802.11b

Mkr → CF

More 1 of 2

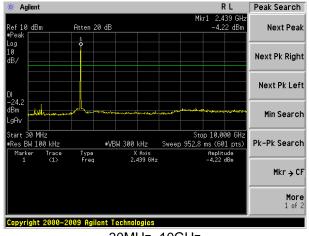




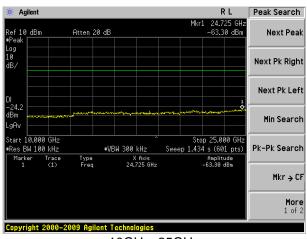


10GHz~25GHz

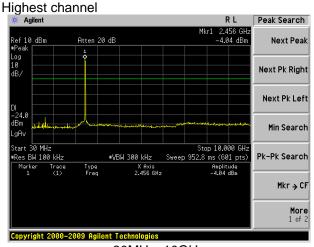
Middle channel



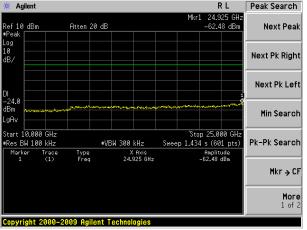
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



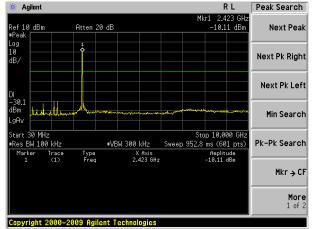
10GHz~25GHz



Test mode:

802.11g

Lowest channel

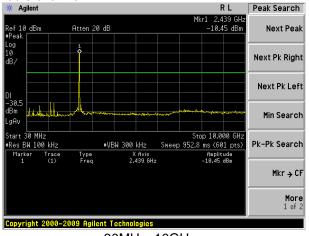


30MHz~10GHz

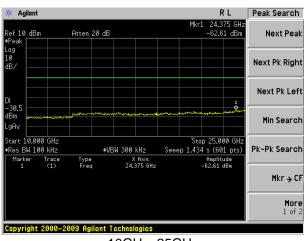
Agilent R L Peak Search Ref 10 dBm Atten 20 dE Next Peak Next Pk Right Next Pk Left Min Search gAv Start 10.000 GHź •Res BW 100 kHz Stop 25.000 GHz Sweep 1.434 s (601 pts) Pk-Pk Search Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

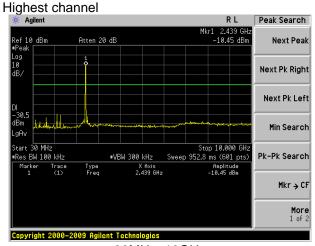
Middle channel



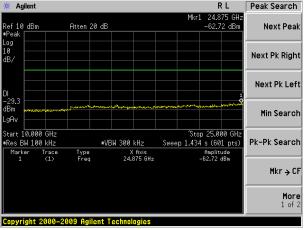
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



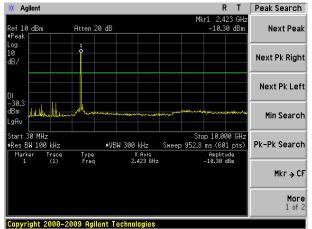
10GHz~25GHz



Test mode:

802.11n(HT20)

Lowest channel



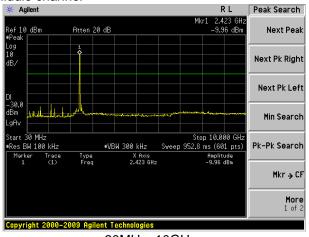
30MHz~10GHz

R T Peak Search 🗰 Agilent Next Peak Atten 20 dB Next Pk Right Next Pk Left Min Search Start 10.000 GHz ■Res BW 100 kHz Stop 25.000 GH: Sweep 1.434 s (601 pts) Pk-Pk Search #VBW 300 kHz Type Freq Amplitude -62.67 dBm X Axis 24.575 GHz Mkr → CF More 1 of 2

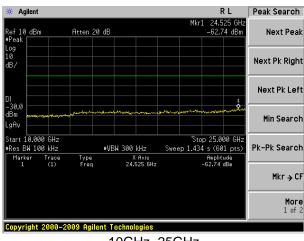
10GHz~25GHz

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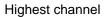
Middle channel

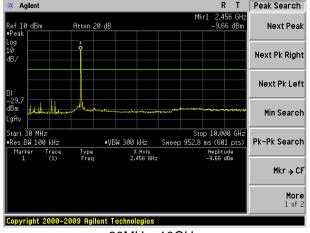


30MHz~10GHz

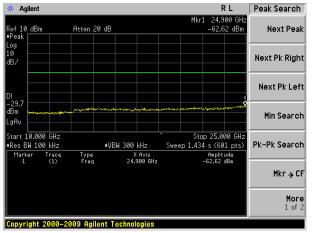


10GHz~25GHz





30MHz~10GHz



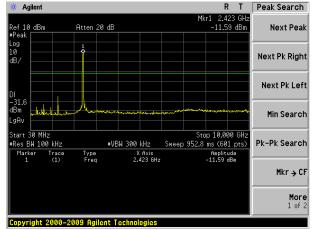
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

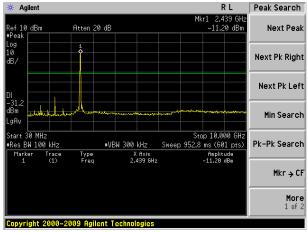


30MHz~10GHz

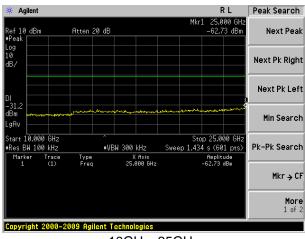
🔆 Agilent Peak Search 24.850 GHz -62.90 dBm Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH: Sweep 1.434 s (601 pts) #VBW 300 kHz Pk-Pk Search ■Res BW 100 kHz Type Freq X Axis 24.850 GHz Amplitude -62.90 dBm Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

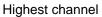
Middle channel

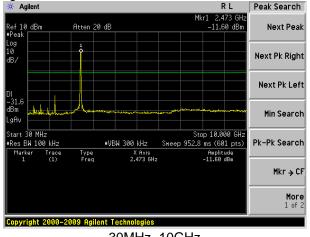


30MHz~10GHz

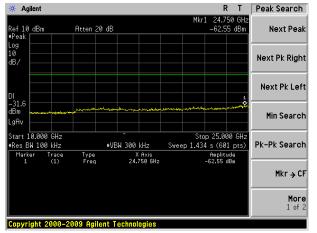


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209									
Test Method:	ANSI C63.4: 200	3									
Test Frequency Range:	30MHz to 25GHz	30MHz to 25GHz									
Test site:	Measurement Dis	Measurement Distance: 3m									
Receiver setup:	Frequency										
	30MHz-1GHz Quasi-peak 120KHz 300KHz Quasi-peak										
	Abovo 1GHz	Above 1GHz Peak 1MHz 3MHz Peak									
	Above 10112	Above 1GHz Peak 1MHz 10Hz Average									
Limit:	Frequen	cy l	_imit (dBuV	/m @3m)	Value						
	30MHz-88	MHz	40.0	0	Quasi-peak						
	88MHz-216	6MHz	43.5	0	Quasi-peak						
	216MHz-96	0MHz	46.0	0	Quasi-peak						
	960MHz-1	GHz	54.0	0	Quasi-peak						
	Above 10	`U-7	54.0	0	Average						
	Above 10	JI 12	74.0	0	Peak						
	Tum 0.8m Table 0.8m A Above 1GHz	Above 1GHz Antenna Tower									

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.
	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
40.42	52.06	15.58	0.66	32.05	36.25	40.00	-3.75	Vertical
47.49	52.20	15.41	0.74	31.98	36.37	40.00	-3.63	Vertical
140.84	59.48	10.20	1.51	31.95	39.24	43.50	-4.26	Vertical
176.27	58.29	11.42	1.72	32.07	39.36	43.50	-4.14	Vertical
451.14	44.58	17.58	3.09	31.71	33.54	46.00	-12.46	Vertical
552.88	47.99	19.62	3.53	31.28	39.86	46.00	-6.14	Vertical
77.05	56.33	10.14	1.00	31.80	35.67	40.00	-4.33	Horizontal
146.37	56.84	10.23	1.55	31.97	36.65	43.50	-6.85	Horizontal
176.27	56.96	11.42	1.72	32.07	38.03	43.50	-5.47	Horizontal
276.12	56.11	14.55	2.25	32.17	40.74	46.00	-5.26	Horizontal
451.14	48.67	17.58	3.09	31.71	37.63	46.00	-8.37	Horizontal
552.88	47.73	19.62	3.53	31.28	39.60	46.00	-6.40	Horizontal

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



■ Above 1GHz

Test mode:		802.11b		Test	channel:	Lowe	st	
Peak value:						<u>'</u>		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	36.72	31.79	8.62	32.10	45.03	74.00	-28.97	Vertical
7236.00	31.96	36.19	11.68	31.97	47.86	74.00	-26.14	Vertical
9648.00	31.10	38.07	14.16	31.56	51.77	74.00	-22.23	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	35.95	31.79	8.62	32.10	44.26	74.00	-29.74	Horizontal
7236.00	31.99	36.19	11.68	31.97	47.89	74.00	-26.11	Horizontal
9648.00	30.80	38.07	14.16	31.56	51.47	74.00	-22.53	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	26.09	31.79	8.62	32.10	34.40	54.00	-19.60	Vertical
7236.00	20.91	36.19	11.68	31.97	36.81	54.00	-17.19	Vertical
9648.00	21.51	38.07	14.16	31.56	42.18	54.00	-11.82	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	25.67	31.79	8.62	32.10	33.98	54.00	-20.02	Horizontal
7236.00	20.64	36.19	11.68	31.97	36.54	54.00	-17.46	Horizontal
9648.00	20.61	38.07	14.16	31.56	41.28	54.00	-12.72	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. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b		Tes	st channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	36.40	31.85	8.66	32.12	44.79	74.00	-29.21	Vertical
7311.00	32.42	36.37	11.71	31.91	48.59	74.00	-25.41	Vertical
9748.00	32.40	38.27	14.25	31.56	53.36	74.00	-20.64	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	37.34	31.85	8.66	32.12	45.73	74.00	-28.27	Horizontal
7311.00	31.30	36.37	11.71	31.91	47.47	74.00	-26.53	Horizontal
9748.00	32.39	38.27	14.25	31.56	53.35	74.00	-20.65	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	27.48	31.85	8.66	32.12	35.87	54.00	-18.13	Vertical
7311.00	20.80	36.37	11.71	31.91	36.97	54.00	-17.03	Vertical
9748.00	21.70	38.27	14.25	31.56	42.66	54.00	-11.34	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	27.60	31.85	8.66	32.12	35.99	54.00	-18.01	Horizontal
7311.00	20.43	36.37	11.71	31.91	36.60	54.00	-17.40	Horizontal
9748.00	22.15	38.27	14.25	31.56	43.11	54.00	-10.89	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

^{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		Test	channel:	High	est	
Peak value:						<u> </u>		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	39.79	31.90	8.70	32.15	48.24	74.00	-25.76	Vertical
7386.00	31.75	36.49	11.76	31.83	48.17	74.00	-25.83	Vertical
9848.00	34.73	38.62	14.31	31.77	55.89	74.00	-18.11	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	39.89	31.90	8.70	32.15	48.34	74.00	-25.66	Horizontal
7386.00	31.05	36.49	11.76	31.83	47.47	74.00	-26.53	Horizontal
9848.00	31.08	38.62	14.31	31.77	52.24	74.00	-21.76	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	31.10	31.90	8.70	32.15	39.55	54.00	-14.45	Vertical
7386.00	21.77	36.49	11.76	31.83	38.19	54.00	-15.81	Vertical
9848.00	23.32	38.62	14.31	31.77	44.48	54.00	-9.52	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	30.52	31.90	8.70	32.15	38.97	54.00	-15.03	Horizontal
7386.00	20.53	36.49	11.76	31.83	36.95	54.00	-17.05	Horizontal
9848.00	20.41	38.62	14.31	31.77	41.57	54.00	-12.43	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

^{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:		802.11g		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	35.40	31.79	8.62	32.10	43.71	74.00	-30.29	Vertical
7236.00	31.13	36.19	11.68	31.97	47.03	74.00	-26.97	Vertical
9648.00	30.50	38.07	14.16	31.56	51.17	74.00	-22.83	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	34.83	31.79	8.62	32.10	43.14	74.00	-30.86	Horizontal
7236.00	31.26	36.19	11.68	31.97	47.16	74.00	-26.84	Horizontal
9648.00	30.25	38.07	14.16	31.56	50.92	74.00	-23.08	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	24.87	31.79	8.62	32.10	33.18	54.00	-20.82	Vertical
7236.00	20.10	36.19	11.68	31.97	36.00	54.00	-18.00	Vertical
9648.00	20.94	38.07	14.16	31.56	41.61	54.00	-12.39	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	24.63	31.79	8.62	32.10	32.94	54.00	-21.06	Horizontal
7236.00	19.93	36.19	11.68	31.97	35.83	54.00	-18.17	Horizontal
9648.00	20.08	38.07	14.16	31.56	40.75	54.00	-13.25	Horizontal
12060.00	*	_				54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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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:		802.11g		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	35.30	31.85	8.66	32.12	43.69	74.00	-30.31	Vertical
7311.00	31.73	36.37	11.71	31.91	47.90	74.00	-26.10	Vertical
9748.00	31.90	38.27	14.25	31.56	52.86	74.00	-21.14	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	36.41	31.85	8.66	32.12	44.80	74.00	-29.20	Horizontal
7311.00	30.69	36.37	11.71	31.91	46.86	74.00	-27.14	Horizontal
9748.00	31.93	38.27	14.25	31.56	52.89	74.00	-21.11	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	26.47	31.85	8.66	32.12	34.86	54.00	-19.14	Vertical
7311.00	20.14	36.37	11.71	31.91	36.31	54.00	-17.69	Vertical
9748.00	21.23	38.27	14.25	31.56	42.19	54.00	-11.81	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	26.74	31.85	8.66	32.12	35.13	54.00	-18.87	Horizontal
7311.00	19.85	36.37	11.71	31.91	36.02	54.00	-17.98	Horizontal
9748.00	21.71	38.27	14.25	31.56	42.67	54.00	-11.33	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*	_				54.00		Horizontal

Remark:

Shenzhen, China 518102

^{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:		802.11g		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)	I I imit	polarization
4924.00	37.91	31.90	8.70	32.15	46.36	74.00	-27.64	Vertical
7386.00	30.56	36.49	11.76	31.83	46.98	74.00	-27.02	Vertical
9848.00	33.88	38.62	14.31	31.77	55.04	74.00	-18.96	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	38.30	31.90	8.70	32.15	46.75	74.00	-27.25	Horizontal
7386.00	30.01	36.49	11.76	31.83	46.43	74.00	-27.57	Horizontal
9848.00	30.29	38.62	14.31	31.77	51.45	74.00	-22.55	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)	I I imit	polarization
4924.00	29.37	31.90	8.70	32.15	37.82	54.00	-16.18	Vertical
7386.00	20.62	36.49	11.76	31.83	37.04	54.00	-16.96	Vertical
9848.00	22.51	38.62	14.31	31.77	43.67	54.00	-10.33	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	29.03	31.90	8.70	32.15	37.48	54.00	-16.52	Horizontal
7386.00	19.52	36.49	11.76	31.83	35.94	54.00	-18.06	Horizontal
9848.00	19.66	38.62	14.31	31.77	40.82	54.00	-13.18	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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



Test mode:		802.11n(H	IT20)	Tes	t channel:	Lowe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	34.81	31.79	8.62	32.10	43.12	74.00	-30.88	Vertical
7236.00	30.75	36.19	11.68	31.97	46.65	74.00	-27.35	Vertical
9648.00	30.24	38.07	14.16	31.56	50.91	74.00	-23.09	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	34.34	31.79	8.62	32.10	42.65	74.00	-31.35	Horizontal
7236.00	30.94	36.19	11.68	31.97	46.84	74.00	-27.16	Horizontal
9648.00	30.01	38.07	14.16	31.56	50.68	74.00	-23.32	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	24.33	31.79	8.62	32.10	32.64	54.00	-21.36	Vertical
7236.00	19.74	36.19	11.68	31.97	35.64	54.00	-18.36	Vertical
9648.00	20.68	38.07	14.16	31.56	41.35	54.00	-12.65	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	24.16	31.79	8.62	32.10	32.47	54.00	-21.53	Horizontal
7236.00	19.61	36.19	11.68	31.97	35.51	54.00	-18.49	Horizontal
9648.00	19.84	38.07	14.16	31.56	40.51	54.00	-13.49	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)	1	Test o	channel:		Middl	е	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit L (dBuV		Over Limit (dB)	polarization
4874.00	34.82	31.85	8.66	32.1	2	43.21	74.0	0	-30.79	Vertical
7311.00	31.42	36.37	11.71	31.9)1	47.59	74.0	0	-26.41	Vertical
9748.00	31.68	38.27	14.25	31.5	6	52.64	74.0	0	-21.36	Vertical
12185.00	*						74.0	0		Vertical
14622.00	*						74.0	0		Vertical
17059.00	*						74.0	0		Vertical
4874.00	36.00	31.85	8.66	32.1	2	44.39	74.0	0	-29.61	Horizontal
7311.00	30.42	36.37	11.71	31.9)1	46.59	74.0	0	-27.41	Horizontal
9748.00	31.73	38.27	14.25	31.5	6	52.69	74.0	0	-21.31	Horizontal
12185.00	*						74.0	0		Horizontal
14622.00	*						74.0	0		Horizontal
17059.00	*						74.0	0		Horizontal
Average val	ue:				•					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit L (dBuV		Over Limit (dB)	polarization
4874.00	26.03	31.85	8.66	32.1	2	34.42	54.0	0	-19.58	Vertical
7311.00	19.84	36.37	11.71	31.9)1	36.01	54.0	0	-17.99	Vertical
9748.00	21.02	38.27	14.25	31.5	6	41.98	54.0	0	-12.02	Vertical
12185.00	*						54.0	0		Vertical
14622.00	*						54.0	0		Vertical
17059.00	*						54.0	0		Vertical
4874.00	26.35	31.85	8.66	32.1	2	34.74	54.0	0	-19.26	Horizontal
7311.00	19.59	36.37	11.71	31.9)1	35.76	54.0	0	-18.24	Horizontal
9748.00	21.52	38.27	14.25	31.5	6	42.48	54.0	0	-11.52	Horizontal
12185.00	*						54.0	0		Horizontal
14622.00	*						54.0	0		Horizontal
17059.00	*						54.0	0		Horizontal

Remark:

Shenzhen, China 518102

^{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	IT20)	Test	channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	37.07	31.90	8.70	32.15	45.52	74.00	-28.48	4924.00
7386.00	30.03	36.49	11.76	31.83	46.45	74.00	-27.55	7386.00
9848.00	33.50	38.62	14.31	31.77	54.66	74.00	-19.34	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	37.59	31.90	8.70	32.15	46.04	74.00	-27.96	Horizontal
7386.00	29.55	36.49	11.76	31.83	45.97	74.00	-28.03	Horizontal
9848.00	29.94	38.62	14.31	31.77	51.10	74.00	-22.90	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	28.60	31.90	8.70	32.15	37.05	54.00	-16.95	Vertical
7386.00	20.11	36.49	11.76	31.83	36.53	54.00	-17.47	Vertical
9848.00	22.14	38.62	14.31	31.77	43.30	54.00	-10.70	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	28.36	31.90	8.70	32.15	36.81	54.00	-17.19	Horizontal
7386.00	19.07	36.49	11.76	31.83	35.49	54.00	-18.51	Horizontal
9848.00	19.32	38.62	14.31	31.77	40.48	54.00	-13.52	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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)	Tes	t channel:	Lowe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	34.50	31.81	8.63	32.11	42.83	74.00	-31.17	Vertical
7266.00	30.56	36.28	11.69	31.94	46.59	74.00	-27.41	Vertical
9688.00	30.10	38.13	14.21	31.52	50.92	74.00	-23.08	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	34.07	31.81	8.63	32.11	42.40	74.00	-31.60	Horizontal
7266.00	30.77	36.28	11.69	31.94	46.80	74.00	-27.20	Horizontal
9688.00	29.88	38.13	14.21	31.52	50.70	74.00	-23.30	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	110.		•	•			•	•

Average value:

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	
4844.00	24.04	31.81	8.63	32.11	32.37	54.00	-21.63	Vertical	
7266.00	19.55	36.28	11.69	31.94	35.58	54.00	-18.42	Vertical	
9688.00	20.55	38.13	14.21	31.52	41.37	54.00	-12.63	Vertical	
12060.00	*					54.00		Vertical	
14472.00	*					54.00		Vertical	
16884.00	*					54.00		Vertical	
4844.00	23.91	31.81	8.63	32.11	32.24	54.00	-21.76	Horizontal	
7266.00	19.44	36.28	11.69	31.94	35.47	54.00	-18.53	Horizontal	
9688.00	19.71	38.13	14.21	31.52	40.53	54.00	-13.47	Horizontal	
12060.00	*					54.00		Horizontal	
14472.00	*					54.00		Horizontal	
16884.00	*					54.00		Horizontal	

Remark:

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



Test mode:		802.11n(HT40)			Test channel:			Middle		
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4874.00	34.56	31.85	8.66	32	.12	42.95	74.00		-31.05	Vertical
7311.00	31.26	36.37	11.71	31	.91	47.43	74.00		-26.57	Vertical
9748.00	31.57	38.27	14.25	31.56		52.53	74.00		-21.47	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	35.78	31.85	8.66	32	.12	44.17	74.00		-29.83	Horizontal
7311.00	30.28	36.37	11.71	31	.91	46.45	74.00		-27.55	Horizontal
9748.00	31.62	38.27	14.25	31.56		52.58	74.00		-21.42	Horizontal
12185.00	*						74.	00		Horizontal
14622.00	*						74.	00		Horizontal
17059.00	*						74.	00		Horizontal
Average val	ue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor dB)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4874.00	25.79	31.85	8.66	32	.12	34.18	54.	00	-19.82	Vertical
7311.00	19.68	36.37	11.71	31	.91	35.85	54.	00	-18.15	Vertical
9748.00	20.91	38.27	14.25	31	.56	41.87	54.	00	-12.13	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	26.15	31.85	8.66	32.12		34.54	54.	00	-19.46	Horizontal
7311.00	19.45	36.37	11.71	31	.91	35.62	54.	00	-18.38	Horizontal
9748.00	21.41	38.27	14.25	31	.56	42.37	54.	00	-11.63	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*						54.	00		Horizontal

Remark:

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



Test mode:		802.11n(H	IT40)	Tes	st 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	36.62	31.88	8.68	32.13	45.05	74.00	-28.95	Vertical
7356.00	29.74	36.45	11.75	31.86	46.08	74.00	-27.92	Vertical
9808.00	33.30	38.43	14.29	31.68	54.34	74.00	-19.66	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	37.22	31.88	8.68	32.13	45.65	74.00	-28.35	Horizontal
7356.00	29.30	36.45	11.75	31.86	45.64	74.00	-28.36	Horizontal
9808.00	29.76	38.43	14.29	31.68	50.80	74.00	-23.20	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
4904.00	28.19	31.88	8.68	32.13	36.62	54.00	-17.38	Vertical
7356.00	19.84	36.45	11.75	31.86	36.18	54.00	-17.82	Vertical
9808.00	21.95	38.43	14.29	31.68	42.99	54.00	-11.01	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	28.01	31.88	8.68	32.13	36.44	54.00	-17.56	Horizontal
7356.00	18.83	36.45	11.75	31.86	35.17	54.00	-18.83	Horizontal
9808.00	19.14	38.43	14.29	31.68	40.18	54.00	-13.82	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

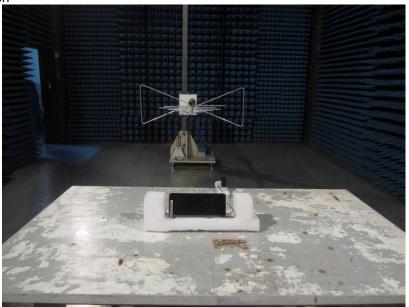
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

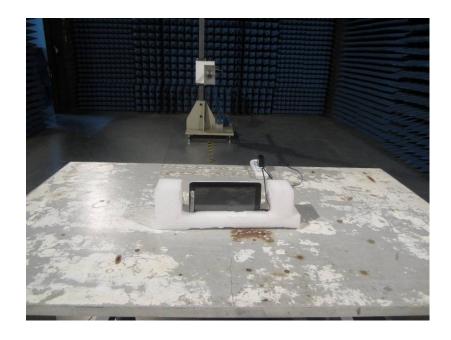
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







Conducted Emission



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9 EUT Constructional Details





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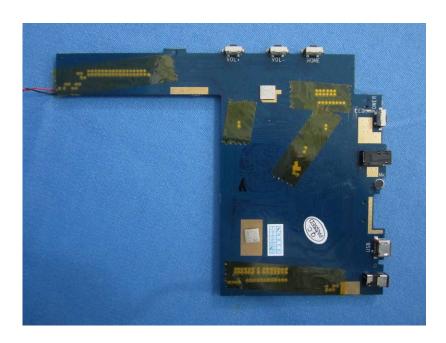
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

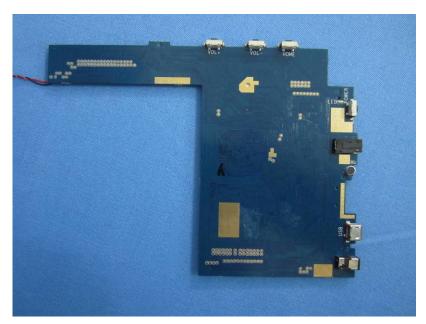












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