

Global United Technology Services Co., Ltd.

Report No.: GTSE12110140401

FCC REPORT

Applicant: Dongguan Yuanfeng Technology Co., Ltd.

Address of Applicant: No.62, South Fumin Road, Fumin Industrial Park, Dalang

Town, Dongguan City, Guangdong, P.R. China

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: MR13-1301, MR13-1302, MR13-1303, MR13-1304,

MR13-1305, MR13-1306, MR13-1307, MR13-1308, MR13-1309, MR13-1310, MR13-1311, MR13-1312,

MR13-1313, MR13-1314, MR13-1315

FCC ID: YNGMR13-1301

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2011

Date of sample receipt: November 28, 2012

Date of Test: November 30-December 12, 2012

Date of report issued: December 13, 2012

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	December 13, 2012	Original

Prepared By:	hank. yan.	Date:	December 13, 2012	
	Project Engineer			
Check By:	Homs. Hu	Date:	December 13, 2012	
	Reviewer			



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4 Test Summary

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

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

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5 General Information

5.1 Client Information

Applicant:	Dongguan Yuanfeng Technology Co., Ltd.	
Address of Applicant:	No.62, South Fumin Road, Fumin Industrial Park, Dalang Town, Dongguan City, Guangdong, P.R. China	
Manufacturer:	Dongguan Yuanfeng Technology Co., Ltd.	
Address of Manufacturer:	No.62, South Fumin Road, Fumin Industrial Park, Dalang Town, Dongguan City, Guangdong, P.R. China	
Factory:	Dongguan Yuanfeng Technology Co., Ltd.	
Address of Factory:	No.62, South Fumin Road, Fumin Industrial Park, Dalang Town, Dongguan City, Guangdong, P.R. China	

5.2 General Description of EUT

Product Name:	Tablet PC
Model No.:	MR13-1301, MR13-1302, MR13-1303, MR13-1304, MR13-1305, MR13-1306, MR13-1307, MR13-1308, MR13-1309, MR13-1310, MR13-1311, MR13-1312, MR13-1313, MR13-1314, MR13-1315
Test Model No.:	MR13-1301
Remark:	Since the electrical circuit design, PCB layout, Electrical Parts and Figure are identical to the basic model, except the outer decoration.
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:	2.5 dBi (declare by Applicant)
Power supply:	Model No. :HNC050250X
	Input: AC 100-240V 50/60Hz 0.4A MAX
	Output: DC 5.0V 2.5A
	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)			
l'est 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-1.

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

511111a 5-1-0755 05

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

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



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. 30 2011	Mar. 29 2013		
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. 6, 2012	Dec. 5, 2013		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 03 2012	Jul. 02 2013		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 25 2012	Feb. 24 2013		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 29 2012	June 28 2013		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2011	Mar. 29 2013		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 31 2012	Mar. 30 2013		
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 31 2012	Mar. 30 2013		
11	Coaxial cable	GTS	N/A	GTS210	Mar. 31 2012	Mar. 30 2013		
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 31 2012	Mar. 30 2013		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 03 2012	Jul. 02 2013		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 03 2012	Jul. 02 2013		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 29 2012	June 28 2013		
16	Band filter	Amindeon	82346	GTS219	Mar. 31 2012	Mar. 30 2013		

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. 08 2011	Sep. 07 2013		
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 03 2012	Jul. 02 2013		
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 03 2012	Jul. 02 2013		
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jul. 03 2012	Jul. 02 2013		
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 03 2012	Jul. 02 2013		
6	Coaxial Cable	GTS	N/A	GTS227	Jul. 03 2012	Jul. 02 2013		
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 10 2012	July 09 2013		



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 2.5dBi

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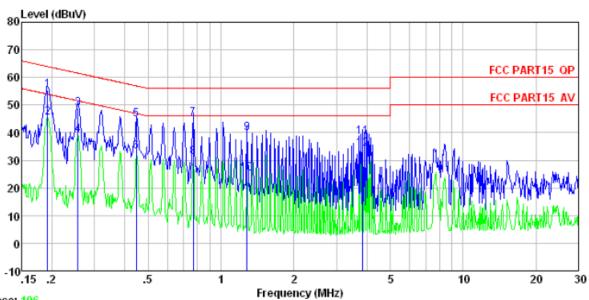
7.2 Conducted Emissions

	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, Sweep time=auto						
Limit:	Fragues ou range (MIII-)	Limit (d	IBuV)				
	Frequency range (MHz) Quasi-peak Average						
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
T	* Decreases with the logarithm	n of the frequency.					
Test setup:	Reference Plane		•				
Toet procedure:	AUX Filter AC power Equipment E.U.T Test table/Insulation plane Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m						
Test procedure:	 The E.U.T and simulators a line impedance stabilization 50ohm/50uH coupling impe 	n network (L.I.S.N.). Th	nis provides a				
	The peripheral devices are LISN that provides a 50ohn termination. (Please refer to photographs).	n/50uH coupling imped	lance with 50ohm				
3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be 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: 106

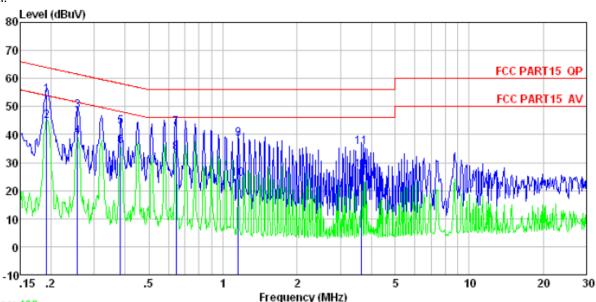
Condition : FCC PART15 QP LISN-2012 LINE

Job No. : 1404RF Test Mode : WiFi mode Test Engineer: Edward

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	dB	dB	dBu₹	dBuV	dB	
1	0.192	55.62	-0.23	0.10	55.49	63.93	-8.44	-
2 3	0.192	45.44	-0.23	0.10	45.31	53.93	-8.62	Average
3	0.256	48.95	-0.23	0.10	48.82	61.56	-12.74	QP
4	0.256	39.29	-0.23	0.10	39.16	51.56	-12.40	Average
4 5	0.447	44.81	-0.21	0.10	44.70	56.93	-12.23	QP
6	0.447	33.18	-0.21	0.10	33.07	46.93	-13.86	Average
7	0.767	45.16	-0.20	0.10	45.06	56.00	-10.94	QP
8	0.767	31.28	-0.20	0.10	31.18	46.00	-14.82	Average
9	1.282	40.08	-0.22	0.10	39.96	56.00	-16.04	QP
10	1.282	25.45	-0.22	0.10	25.33	46.00	-20.67	Average
11	3.840	38.59	-0.28	0.10	38.41		-17.59	_
12	3.840	34.43	-0.28	0.10	34.25			Äverage



Neutral:



Trace: 108

Condition : FCC PART15 QP LISN-2012 NEUTRAL

Job No. : 1404RF Test Mode : WiFi mode Test Engineer: Edward

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1 2 3 4 5 6 7 8 9	0.192 0.192 0.256 0.256 0.383 0.383 0.644 0.644 1.153	54. 15 44. 73 48. 54 39. 01 42. 74 35. 75 42. 51 33. 65 38. 59 24. 29	-0.09 -0.09 -0.09 -0.08 -0.08 -0.08 -0.08 -0.09	0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.10	54. 16 44. 74 48. 55 39. 02 42. 76 35. 77 42. 53 33. 67 38. 60 24. 30	51.56 58.21 48.21 56.00 46.00 56.00 46.00	-13. 01 -12. 54 -15. 45 -12. 44 -13. 47 -12. 33 -17. 40 -21. 70	Average QP Average QP Average QP Average QP Average
11 12	3.661 3.661	35. 62 27. 17	-0.14 -0.14	0.10 0.10	35.58 27.13		-20. 42 -18. 87	QP 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



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 V02		
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

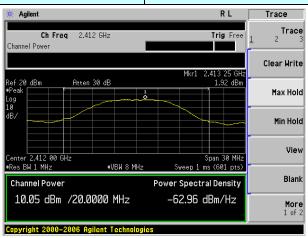
Test CH		Peak Outp	Limit(dBm)	Result		
1031 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(aDim)	Nosuit
Lowest	10.05	8.21	8.96	6.23		Pass
Middle	9.80	8.12	9.20	7.28	30.00	
Highest	10.19	8.84	9.57	7.60		

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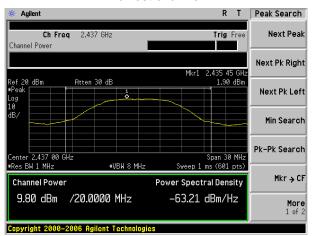


Test plot as follows:

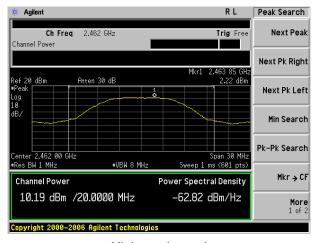
Test mode: 802.11b



Lowest channel



Middle channel

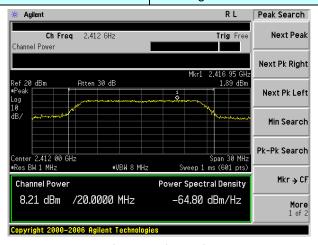


Highest channel

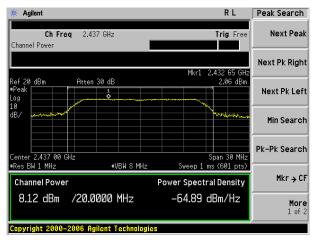
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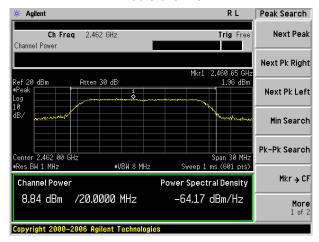
Test mode: 802.11g



Lowest channel



Middle channel

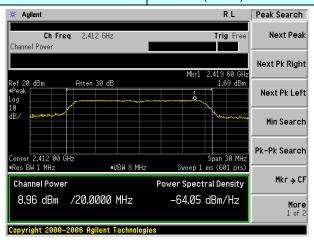


Highest channel

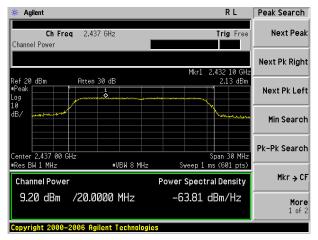
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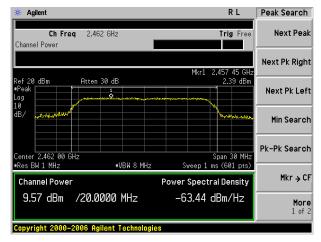
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

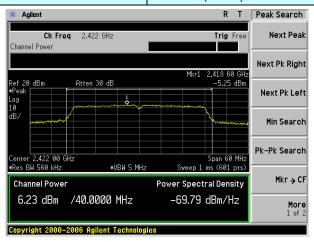


Highest channel

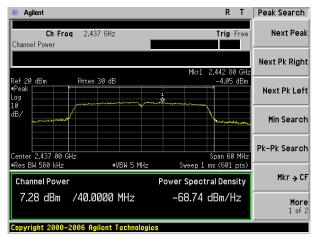
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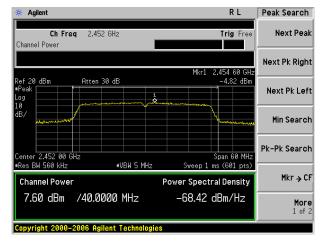
Test mode: 802.11n(HT40)



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 V02			
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

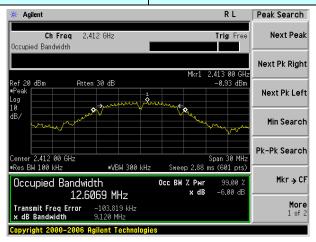
Test CH		Channel Ban	Limit(KHz)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littit(IXI12)	Nesuit
Lowest	9.120	16.426	17.685	35.333		Pass
Middle	9.130	16.407	17.629	35.483	>500	
Highest	9.138	16.377	17.578	35.100		

Test plot as follows:

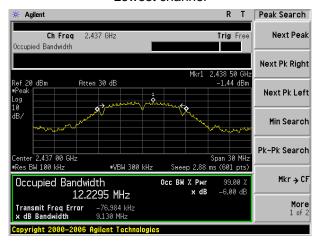
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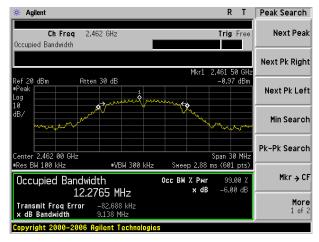
Test mode: 802.11b



Lowest channel



Middle channel

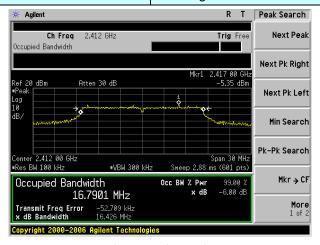


Highest channel

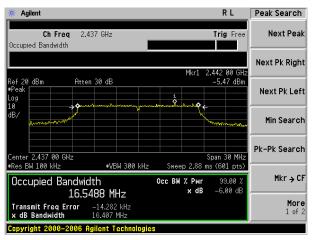
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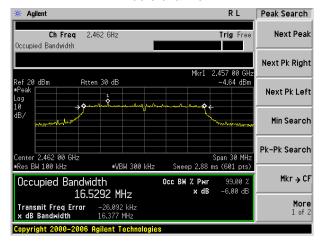
Test mode: 802.11g



Lowest channel



Middle channel

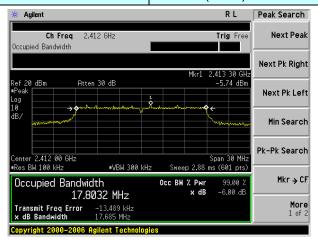


Highest channel

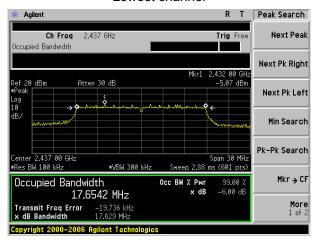
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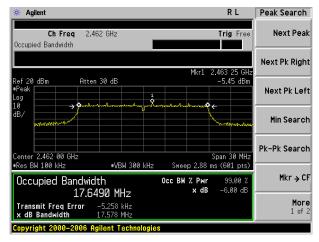
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

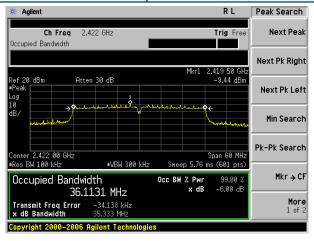


Highest channel

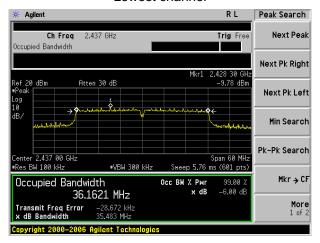
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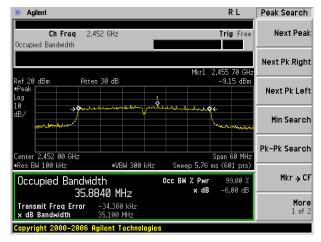
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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



Project No.: GTSE121101404RF

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 V02		
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		

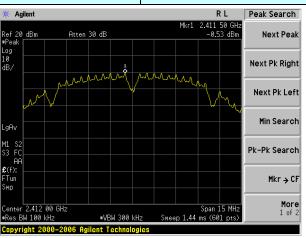
Measurement Data

Test CH		Power Spec	Limit(KHz)	Result		
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littit(Ki iz)	Nesuit
Lowest	-0.53	-4.93	-4.85	-9.06		Pass
Middle	-1.44	-5.36	-5.74	-8.57	8.00	
Highest	-1.86	-4.59	-5.15	-8.54		

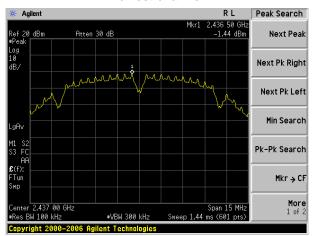


Test plot as follows:

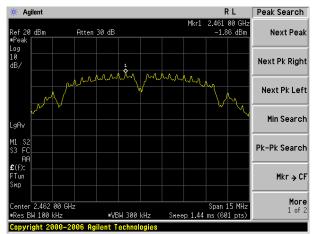
Test mode: 802.11b



Lowest channel



Middle channel

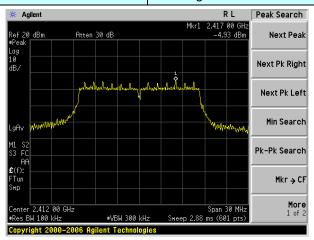


Highest channel

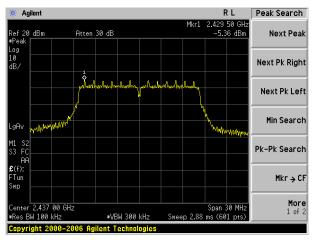


Project No.: GTSE121101404RF

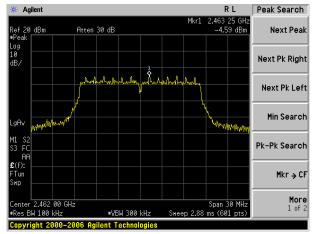
Test mode: 802.11g



Lowest channel



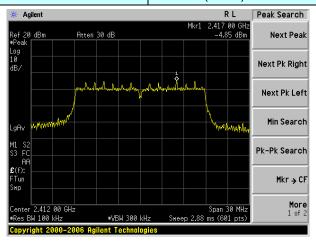
Middle channel



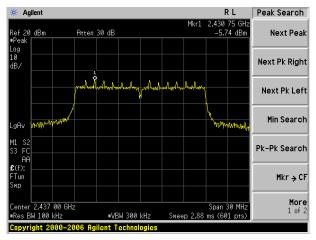
Highest channel



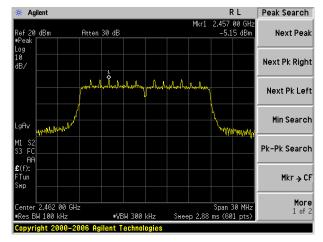
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

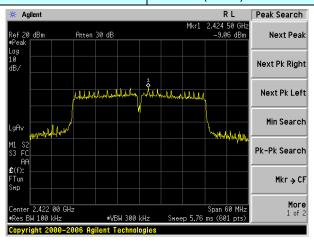


Highest channel

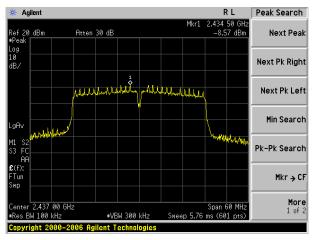
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



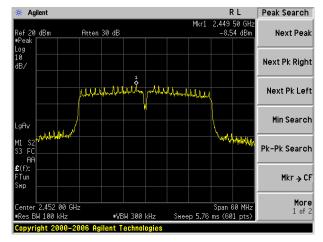
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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7.6 Band edges

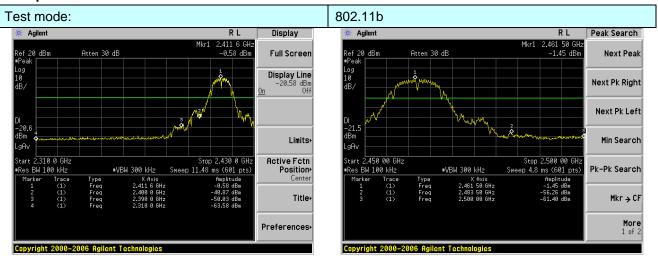
7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V02				
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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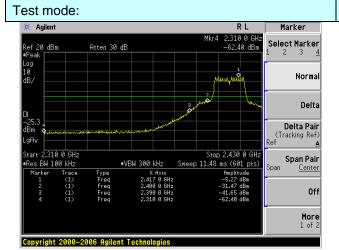


Test plot as follows:



Lowest channel

Highest channel



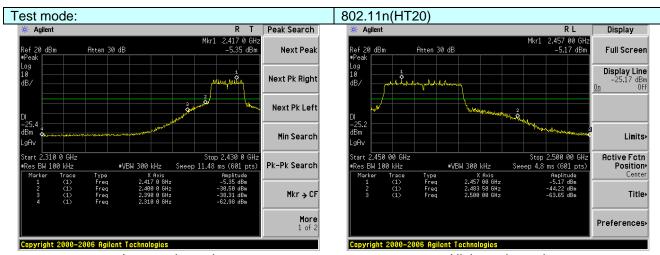
Lowest channel



Highest channel

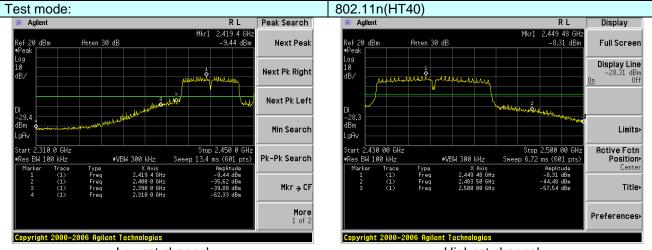
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960







Highest channel



Lowest channel

Highest channel



7.6.2 Radiated Emission Method

T (D)	500 D 445 0.0		1.45.005					
Test Requirement:	FCC Part15 C Section 15.209 and 15.205							
Test Method:		ANSI C63.4: 2003 All of the restrict bands were tested, only the worst band's (2310MHz to						
Test Frequency Range:	All of the restrict 2500MHz) data		tested, only	the worst b	and's (2310MHz to			
Test site:	Measurement D	istance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
	Al- av a 4011-	Peak	1MHz	3MHz	Peak			
	Above 1GHz	AV	1MHz	10Hz	Average			
Limit:	Freque	ency	Limit (dBuV/	/m @3m)	Value			
	Above 1	GH ₇	54.0	0	Average			
	Above	GHZ	74.0	0	Peak			
Test setup:	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 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 X axis positioning which it is worse case, only the test 							
Test Instruments:	Refer to section	6.0 for details						
Test mode:	Refer to section	5.3 for details						
Test results:	Pass			<u> </u>				



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
root modo.	002.110	1 oot onamion.	LOWOOL

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	50.40	27.38	3.91	34.83	46.86	74.00	-27.14	Horizontal
2400.00	53.41	27.38	3.93	34.83	49.89	74.00	-24.11	Horizontal
2390.00	52.43	27.38	3.91	34.83	48.89	74.00	-25.11	Vertical
2400.00	54.36	27.38	3.93	34.83	50.84	74.00	-23.16	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	37.08	27.38	3.91	34.83	33.54	54.00	-20.46	Horizontal
2400.00	39.43	27.38	3.93	34.83	35.91	54.00	-18.09	Horizontal
2390.00	38.05	27.38	3.91	34.83	34.51	54.00	-19.49	Vertical
2400.00	41.12	27.38	3.93	34.83	37.60	54.00	-16.40	Vertical

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

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	51.73	27.32	3.99	34.86	48.18	74.00	-25.82	Horizontal
2500.00	49.22	27.35	4.00	34.87	45.70	74.00	-28.30	Horizontal
2483.50	52.66	27.32	3.99	34.86	49.11	74.00	-24.89	Vertical
2500.00	51.12	27.35	4.00	34.87	47.60	74.00	-26.40	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	37.31	27.32	3.99	34.86	33.76	54.00	-20.24	Horizontal
2500.00	33.76	27.35	4.00	34.87	30.24	54.00	-23.76	Horizontal
2483.50	39.03	27.32	3.99	34.86	35.48	54.00	-18.52	Vertical
2500.00	34.89	27.35	4.00	34.87	31.37	54.00	-22.63	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.

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802.11g

Test mode:

Report No.: GTSE12110140401

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	49.18	27.38	3.91	34.83	45.64	74.00	-28.36	Horizontal
2400.00	51.19	27.38	3.93	34.83	47.67	74.00	-26.33	Horizontal
2390.00	51.33	27.38	3.91	34.83	47.79	74.00	-26.21	Vertical
2400.00	52.89	27.38	3.93	34.83	49.37	74.00	-24.63	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	34.61	27.38	3.91	34.83	31.07	54.00	-22.93	Horizontal
2400.00	36.48	27.38	3.93	34.83	32.96	54.00	-21.04	Horizontal
2390.00	35.25	27.38	3.91	34.83	31.71	54.00	-22.29	Vertical
2400.00	36.86	27.38	3.93	34.83	33.34	54.00	-20.66	Vertical
				•	•			•
Test mode:		802.1	1g	Te	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	49.03	27.32	3.99	34.86	45.48	74.00	-28.52	Horizontal
2500.00	45.62	27.35	4.00	34.87	42.10	74.00	-31.90	Horizontal
2483.50	50.97	27.32	3.99	34.86	47.42	74.00	-26.58	Vertical
2500.00	48.69	27.35	4.00	34.87	45.17	74.00	-28.83	Vertical
Average va	lue:	_			_			_
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	35.28	27.32	3.99	34.86	31.73	54.00	-22.27	Horizontal
2500.00	33.43	27.35	4.00	34.87	29.91	54.00	-24.09	Horizontal
				04.00	22.27	54.00	-20.63	Vertical
2483.50	36.92	27.32	3.99	34.86	33.37	34.00	-20.03	Vertical

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

Test channel:

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Test mode:

Peak value:

Report No.: GTSE12110140401

Lowest

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	49.13	27.38	3.91	34.83	45.59	74.00	-28.41	Horizontal
2400.00	50.72	27.38	3.93	34.83	47.20	74.00	-26.80	Horizontal
2390.00	45.46	27.38	3.91	34.83	41.92	74.00	-32.08	Vertical
2400.00	47.23	27.38	3.93	34.83	43.71	74.00	-30.29	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	35.91	27.38	3.91	34.83	32.37	54.00	-21.63	Horizontal
2400.00	37.96	27.38	3.93	34.83	34.44	54.00	-19.56	Horizontal
2390.00	30.82	27.38	3.91	34.83	27.28	54.00	-26.72	Vertical
2400.00	33.29	27.38	3.93	34.83	29.77	54.00	-24.23	Vertical
Test mode:		802.1	1n(HT20)	Tes	st channel:	F	lighest	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
	(/							
2483.50	47.53	27.32	3.99	34.86	43.98	74.00	-30.02	Horizontal
2483.50 2500.00	, ,	27.32 27.35	3.99 4.00	34.86 34.87	43.98 42.17	74.00 74.00	-30.02 -31.83	Horizontal Horizontal
	47.53							
2500.00	47.53 45.69	27.35	4.00	34.87	42.17	74.00	-31.83	Horizontal
2500.00 2483.50	47.53 45.69 49.86 46.85	27.35 27.32	4.00 3.99	34.87 34.86	42.17 46.31	74.00 74.00	-31.83 -27.69	Horizontal Vertical
2500.00 2483.50 2500.00	47.53 45.69 49.86 46.85	27.35 27.32	4.00 3.99	34.87 34.86	42.17 46.31	74.00 74.00	-31.83 -27.69	Horizontal Vertical
2500.00 2483.50 2500.00 Average va Frequency	47.53 45.69 49.86 46.85 lue: Read Level	27.35 27.32 27.35 Antenna Factor	4.00 3.99 4.00 Cable Loss	34.87 34.86 34.87 Preamp Factor	42.17 46.31 43.33 Level	74.00 74.00 74.00 Limit Line	-31.83 -27.69 -30.67 Over Limit	Horizontal Vertical Vertical
2500.00 2483.50 2500.00 Average va Frequency (MHz)	47.53 45.69 49.86 46.85 lue: Read Level (dBuV)	27.35 27.32 27.35 Antenna Factor (dB/m)	4.00 3.99 4.00 Cable Loss (dB)	34.87 34.86 34.87 Preamp Factor (dB)	42.17 46.31 43.33 Level (dBuV/m)	74.00 74.00 74.00 Limit Line (dBuV/m)	-31.83 -27.69 -30.67 Over Limit (dB)	Horizontal Vertical Vertical Polarization
2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50	47.53 45.69 49.86 46.85 lue: Read Level (dBuV) 34.81	27.35 27.32 27.35 Antenna Factor (dB/m) 27.32	4.00 3.99 4.00 Cable Loss (dB) 3.99	34.87 34.86 34.87 Preamp Factor (dB) 34.86	42.17 46.31 43.33 Level (dBuV/m) 31.26	74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	-31.83 -27.69 -30.67 Over Limit (dB) -22.74	Horizontal Vertical Vertical Polarization Horizontal
2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50 2500.00	47.53 45.69 49.86 46.85 lue: Read Level (dBuV) 34.81 32.83	27.35 27.32 27.35 Antenna Factor (dB/m) 27.32 27.35	4.00 3.99 4.00 Cable Loss (dB) 3.99 4.00	34.87 34.86 34.87 Preamp Factor (dB) 34.86 34.87	42.17 46.31 43.33 Level (dBuV/m) 31.26 29.31	74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	-31.83 -27.69 -30.67 Over Limit (dB) -22.74 -24.69	Horizontal Vertical Vertical Polarization Horizontal Horizontal

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

Test channel:

802.11n(HT20)

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Test mode:

Peak value:

Report No.: GTSE12110140401

Lowest

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	50.32	27.38	3.91	34.83	46.78	74.00	-27.22	Horizontal
2400.00	51.02	27.38	3.93	34.83	47.50	74.00	-26.50	Horizontal
2390.00	51.66	27.38	3.91	34.83	48.12	74.00	-25.88	Vertical
2400.00	54.99	27.38	3.93	34.83	51.47	74.00	-22.53	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	37.01	27.38	3.91	34.83	33.47	54.00	-20.53	Horizontal
2400.00	39.96	27.38	3.93	34.83	36.44	54.00	-17.56	Horizontal
2390.00	37.25	27.38	3.91	34.83	33.71	54.00	-20.29	Vertical
2400.00	39.72	27.38	3.93	34.83	36.20	54.00	-17.80	Vertical
Test mode:		802.1	1n(HT40)	Tes	st channel:	F	lighest	
Peak value:								
Frequency (MHz)	Read Level	Antenna Factor	Cable Loss (dB)	Preamp Factor	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
(1711 12)	(dBuV)	(dB/m)	(GD)	(dB)	(,	(dD)	
2483.50	(dBuV) 52.11	(dB/m) 27.32	3.99	(dB) 34.86	48.56	74.00	-25.44	Horizontal
` ,	` ,	` ′	` '	` ,	` ,	74.00 74.00		Horizontal Horizontal
2483.50	52.11	27.32	3.99	34.86	48.56		-25.44	
2483.50 2500.00	52.11 48.39	27.32 27.35	3.99 4.00	34.86 34.87	48.56 44.87	74.00	-25.44 -29.13	Horizontal
2483.50 2500.00 2483.50	52.11 48.39 52.06 48.89	27.32 27.35 27.32	3.99 4.00 3.99	34.86 34.87 34.86	48.56 44.87 48.51	74.00 74.00	-25.44 -29.13 -25.49	Horizontal Vertical
2483.50 2500.00 2483.50 2500.00	52.11 48.39 52.06 48.89	27.32 27.35 27.32	3.99 4.00 3.99	34.86 34.87 34.86	48.56 44.87 48.51	74.00 74.00 74.00 Limit Line	-25.44 -29.13 -25.49	Horizontal Vertical
2483.50 2500.00 2483.50 2500.00 Average va Frequency	52.11 48.39 52.06 48.89 lue: Read Level	27.32 27.35 27.32 27.35 Antenna Factor	3.99 4.00 3.99 4.00 Cable Loss	34.86 34.87 34.86 34.87 Preamp Factor	48.56 44.87 48.51 45.37	74.00 74.00 74.00 Limit Line	-25.44 -29.13 -25.49 -28.63 Over Limit	Horizontal Vertical Vertical
2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz)	52.11 48.39 52.06 48.89 lue: Read Level (dBuV)	27.32 27.35 27.32 27.35 Antenna Factor (dB/m)	3.99 4.00 3.99 4.00 Cable Loss (dB)	34.86 34.87 34.86 34.87 Preamp Factor (dB)	48.56 44.87 48.51 45.37 Level (dBuV/m)	74.00 74.00 74.00 Limit Line (dBuV/m)	-25.44 -29.13 -25.49 -28.63 Over Limit (dB)	Horizontal Vertical Vertical Polarization
2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50	52.11 48.39 52.06 48.89 lue: Read Level (dBuV) 37.01	27.32 27.35 27.32 27.35 Antenna Factor (dB/m) 27.32	3.99 4.00 3.99 4.00 Cable Loss (dB) 3.99	34.86 34.87 34.86 34.87 Preamp Factor (dB) 34.86	48.56 44.87 48.51 45.37 Level (dBuV/m) 33.46	74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	-25.44 -29.13 -25.49 -28.63 Over Limit (dB) -20.54	Horizontal Vertical Vertical Polarization Horizontal
2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50 2500.00	52.11 48.39 52.06 48.89 Iue: Read Level (dBuV) 37.01 35.84	27.32 27.35 27.32 27.35 Antenna Factor (dB/m) 27.32 27.35	3.99 4.00 3.99 4.00 Cable Loss (dB) 3.99 4.00	34.86 34.87 34.86 34.87 Preamp Factor (dB) 34.86 34.87	48.56 44.87 48.51 45.37 Level (dBuV/m) 33.46 32.32	74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	-25.44 -29.13 -25.49 -28.63 Over Limit (dB) -20.54 -21.68	Horizontal Vertical Vertical Polarization Horizontal Horizontal

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

Test channel:

802.11n(HT40)

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102

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



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 V02				
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				

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

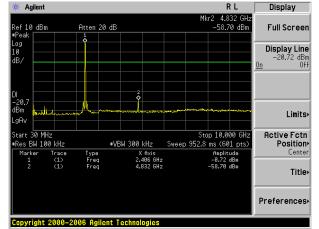


Test plot as follows:

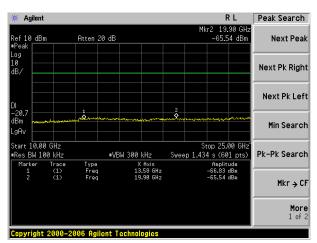
Test mode:

802.11b

Lowest channel

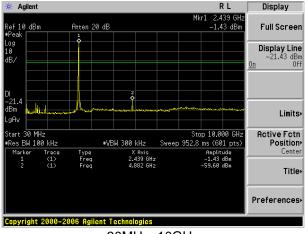


30MHz~10GHz

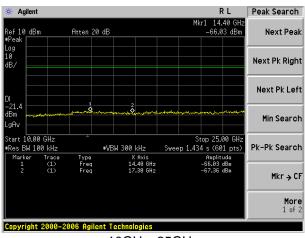


10GHz~25GHz

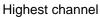
Middle channel

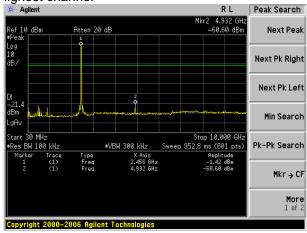


30MHz~10GHz

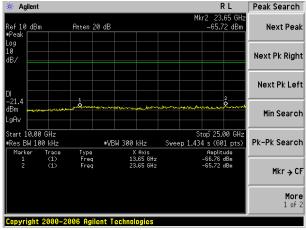


10GHz~25GHz





30MHz~10GHz



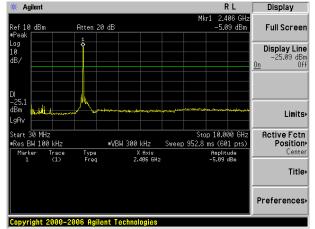
10GHz~25GHz



Test mode:

802.11g

Lowest channel

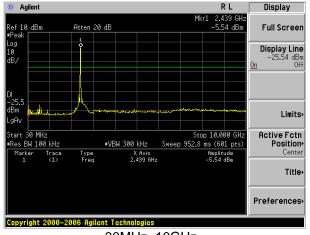


30MHz~10GHz

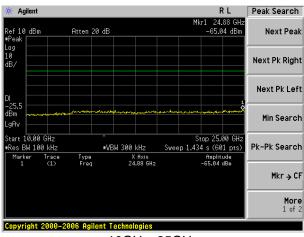
Agilent Peak Search Ref 10 dBm Next Peak Next Pk Right Next Pk Left Min Search gAv Start 10.00 GHz •Res BW 100 kHz Stop 25.00 GHz Sweep 1.434 s (601 pts) Pk-Pk Search Type Freq X Axis 18.65 GHz Mkr → CF More 1 of 2 Copyright 2000-2006 Agilent Technologies

10GHz~25GHz

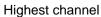
Middle channel

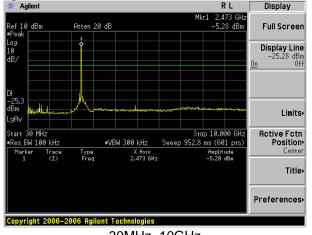


30MHz~10GHz

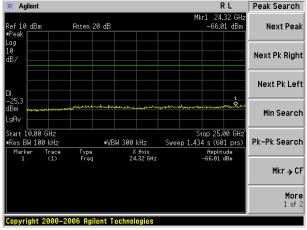


10GHz~25GHz





30MHz~10GHz



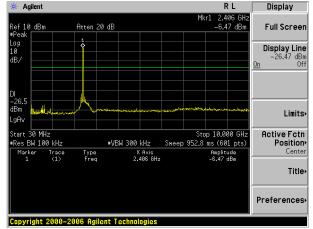
10GHz~25GHz



Test mode:

802.11n(HT20)

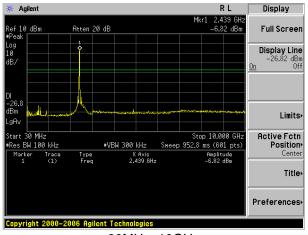
Lowest channel



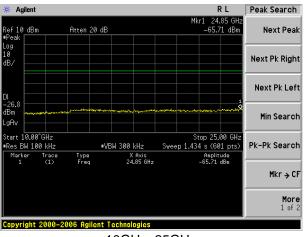
30MHz~10GHz

10GHz~25GHz

Middle channel

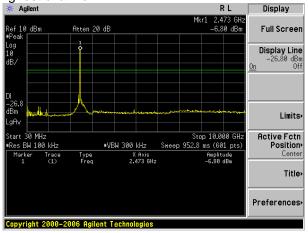


30MHz~10GHz

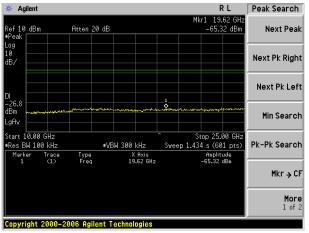


10GHz~25GHz





30MHz~10GHz



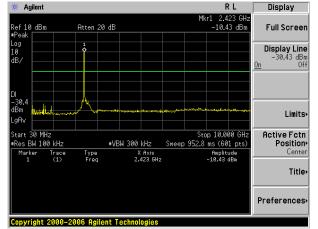
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

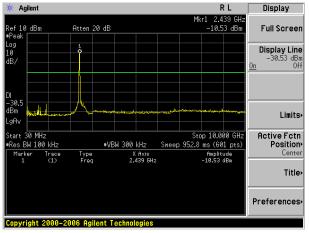


30MHz~10GHz

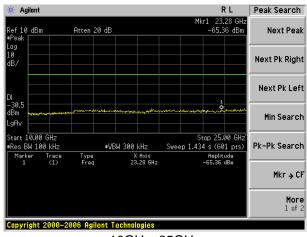
Agilent $\mathsf{R}\,\mathsf{L}$ Peak Search Mkr1 13.68 GH: -64.59 dBm Next Peak Ref 10 dBm Atten 20 dB Next Pk Right Next Pk Left Min Search Stop 25.00 GH; Sweep 1.434 s (601 pts) Start 10.00 GHz Res BW 100 kHz #VBW 300 kHz Pk-Pk Search Type Freq Amplitude -64.59 dBm X Axis 13.68 GHz Mkr → CF More 1 of 2 Copyright 2000-2006 Agilent Technologies

10GHz~25GHz

Middle channel

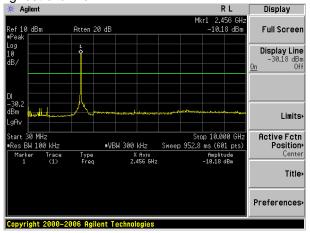


30MHz~10GHz

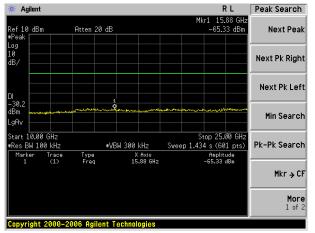


10GHz~25GHz

Highest channel



30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

10	30MHz to 25GHz									
Measurement Dis	stance: 3m									
Frequency	Detector	RBW	VBW	Value						
30MHz-1GHz	' '									
Above 1GHz	Peak	1MHz	3MHz	Peak						
Above Toriz	AV	1MHz	10Hz	Average						
Frequen	cy l	_imit (dBuV/	/m @3m)	Value						
30MHz-88	MHz	40.0	0	Quasi-peak						
88MHz-216	3MHz	43.5	0	Quasi-peak						
216MHz-96	0MHz	46.0	0	Quasi-peak						
960MHz-1	GHz	54.0	0	Quasi-peak						
Above 16	211-7	54.0	0	Average						
Above 10)I IZ	74.0	0	Peak						
Turn 0.8m Table 0.8m A Ground Plane — Above 1GHz	4m 1m	Hoi Spec	rn Antenna etrum							
	30MHz-1GHz Above 1GHz Frequen 30MHz-88 88MHz-216 216MHz-96 960MHz-1 Above 1GHz Below 1GHz Ground Plane Above 1GHz	30MHz-1GHz Quasi-peak Above 1GHz Peak AV Frequency L 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz Below 1GHz Below 1GHz Above 1GHz Above 1GHz	30MHz-1GHz Quasi-peak 120KHz Above 1GHz Peak 1MHz AV 1MHz Frequency Limit (dBuV) 30MHz-88MHz 40.0 88MHz-216MHz 43.5 216MHz-960MHz 46.0 960MHz-1GHz 54.0 Above 1GHz Below 1GHz Below 1GHz Above 1GHz Above 1GHz Below 1GHz	30MHz-1GHz Quasi-peak 120KHz 300KHz Above 1GHz Peak 1MHz 3MHz AV 1MHz 10Hz Frequency Limit (dBuV/m @3m) 30MHz-88MHz 40.00 88MHz-216MHz 43.50 216MHz-960MHz 46.00 960MHz-1GHz 54.00 Above 1GHz 74.00 Below 1GHz Antenna Tower Antenna Tower Antenna Tower Antenna Tower Antenna Tower Antenna Tower 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.
	2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
	7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the 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
71.83	47.98	12.66	0.96	31.85	29.75	40.00	-10.25	Vertical
98.83	44.81	16.16	1.18	31.76	30.39	43.50	-13.11	Vertical
135.03	53.56	11.72	1.47	31.92	34.83	43.50	-8.67	Vertical
239.99	56.91	15.07	2.07	32.16	41.89	46.00	-4.11	Vertical
625.08	43.99	20.80	3.82	31.08	37.53	46.00	-8.47	Vertical
890.73	39.86	24.00	4.82	31.19	37.49	46.00	-8.51	Vertical
44.90	49.15	16.56	0.72	32.01	34.42	40.00	-5.58	Horizontal
53.88	49.35	16.16	0.81	31.95	34.37	40.00	-5.63	Horizontal
98.83	49.35	16.16	1.18	31.76	34.93	43.50	-8.57	Horizontal
133.15	52.44	11.85	1.46	31.92	33.83	43.50	-9.67	Horizontal
153.20	56.45	11.45	1.59	31.99	37.50	43.50	-6.00	Horizontal
793.40	44.88	22.96	4.43	31.31	40.96	46.00	-5.04	Horizontal



■ Above 1GHz

Test mode:		802.11b		Test	channel:	Lowe	est	
Peak value:				'		•		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	37.69	31.28	8.62	24.17	53.42	74.00	-20.58	Vertical
7236.00	30.74	35.36	11.68	26.52	51.26	74.00	-22.74	Vertical
9648.00	31.06	37.44	14.16	25.44	57.22	74.00	-16.78	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	33.06	31.28	8.62	24.17	48.79	74.00	-25.21	Horizontal
7236.00	27.85	35.36	11.68	26.52	48.37	74.00	-25.63	Horizontal
9648.00	28.04	37.44	14.16	25.44	54.20	74.00	-19.80	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	28.20	31.28	8.62	24.17	43.93	54.00	-10.07	Vertical
7236.00	23.67	35.36	11.68	26.52	44.19	54.00	-9.81	Vertical
9648.00	18.66	37.44	14.16	25.44	44.82	54.00	-9.18	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	23.20	31.28	8.62	24.17	38.93	54.00	-15.07	Horizontal
7236.00	19.61	35.36	11.68	26.52	40.13	54.00	-13.87	Horizontal
9648.00	20.45	37.44	14.16	25.44	46.61	54.00	-7.39	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					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		Tes	t channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	37.92	32.02	8.66	24.12	54.48	74.00	-19.52	Vertical
7311.00	31.01	36.64	11.71	26.71	52.65	74.00	-21.35	Vertical
9748.00	30.30	38.54	14.25	25.38	57.71	74.00	-16.29	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	34.38	32.02	8.66	24.12	50.94	74.00	-23.06	Horizontal
7311.00	27.78	36.64	11.71	26.71	49.42	74.00	-24.58	Horizontal
9748.00	28.43	38.54	14.25	25.38	55.84	74.00	-18.16	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	28.46	32.02	8.66	24.12	45.02	54.00	-8.98	Vertical
7311.00	23.64	36.64	11.71	26.71	45.28	54.00	-8.72	Vertical
9748.00	17.80	38.54	14.25	25.38	45.21	54.00	-8.79	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	24.63	32.02	8.66	24.12	41.19	54.00	-12.81	Horizontal
7311.00	19.52	36.64	11.71	26.71	41.16	54.00	-12.84	Horizontal
9748.00	19.82	38.54	14.25	25.38	47.23	54.00	-6.77	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

^{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:								
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	38.46	32.14	8.70	24.05	55.25	74.00	-18.75	Vertical
7386.00	30.83	36.75	11.76	26.90	52.44	74.00	-21.56	Vertical
9848.00	29.98	38.79	14.31	25.30	57.78	74.00	-16.22	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	33.94	32.14	8.70	24.05	50.73	74.00	-23.27	Horizontal
7386.00	28.12	36.75	11.76	26.90	49.73	74.00	-24.27	Horizontal
9848.00	25.65	38.79	14.31	25.30	53.45	74.00	-20.55	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	28.00	32.14	8.70	24.05	44.79	54.00	-9.21	Vertical
7386.00	23.26	36.75	11.76	26.90	44.87	54.00	-9.13	Vertical
9848.00	16.38	38.79	14.31	25.30	44.18	54.00	-9.82	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	23.39	32.14	8.70	24.05	40.18	54.00	-13.82	Horizontal
7386.00	19.70	36.75	11.76	26.90	41.31	54.00	-12.69	Horizontal
9848.00	17.04	38.79	14.31	25.30	44.84	54.00	-9.16	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	38.96	31.28	8.62	24.17	54.69	74.00	-19.31	Vertical
7236.00	32.33	35.36	11.68	26.52	52.85	74.00	-21.15	Vertical
9648.00	30.81	37.44	14.16	25.44	56.97	74.00	-17.03	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.24	31.28	8.62	24.17	53.97	74.00	-20.03	Horizontal
7236.00	32.00	35.36	11.68	26.52	52.52	74.00	-21.48	Horizontal
9648.00	33.93	37.44	14.16	25.44	60.09	74.00	-13.91	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	29.56	31.28	8.62	24.17	45.29	54.00	-8.71	Vertical
7236.00	26.76	35.36	11.68	26.52	47.28	54.00	-6.72	Vertical
9648.00	20.51	37.44	14.16	25.44	46.67	54.00	-7.33	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	25.12	31.28	8.62	24.17	40.85	54.00	-13.15	Horizontal
7236.00	26.10	35.36	11.68	26.52	46.62	54.00	-7.38	Horizontal
9648.00	20.50	37.44	14.16	25.44	46.66	54.00	-7.34	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

^{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		Tes	t channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	37.43	32.02	8.66	24.12	53.99	74.00	-20.01	Vertical
7311.00	31.32	36.64	11.71	26.71	52.96	74.00	-21.04	Vertical
9748.00	30.59	38.54	14.25	25.38	58.00	74.00	-16.00	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	34.57	32.02	8.66	24.12	51.13	74.00	-22.87	Horizontal
7311.00	30.84	36.64	11.71	26.71	52.48	74.00	-21.52	Horizontal
9748.00	31.23	38.54	14.25	25.38	58.64	74.00	-15.36	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	29.06	32.02	8.66	24.12	45.62	54.00	-8.38	Vertical
7311.00	24.05	36.64	11.71	26.71	45.69	54.00	-8.31	Vertical
9748.00	19.39	38.54	14.25	25.38	46.80	54.00	-7.20	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	26.06	32.02	8.66	24.12	42.62	54.00	-11.38	Horizontal
7311.00	22.12	36.64	11.71	26.71	43.76	54.00	-10.24	Horizontal
9748.00	18.50	38.54	14.25	25.38	45.91	54.00	-8.09	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

^{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:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	40.00	32.14	8.70	24.05	56.79	74.00	-17.21	Vertical
7386.00	32.65	36.75	11.76	26.90	54.26	74.00	-19.74	Vertical
9848.00	31.21	38.79	14.31	25.30	59.01	74.00	-14.99	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	37.69	32.14	8.70	24.05	54.48	74.00	-19.52	Horizontal
7386.00	30.99	36.75	11.76	26.90	52.60	74.00	-21.40	Horizontal
9848.00	30.27	38.79	14.31	25.30	58.07	74.00	-15.93	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	29.27	32.14	8.70	24.05	46.06	54.00	-7.94	Vertical
7386.00	24.88	36.75	11.76	26.90	46.49	54.00	-7.51	Vertical
9848.00	18.71	38.79	14.31	25.30	46.51	54.00	-7.49	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	26.17	32.14	8.70	24.05	42.96	54.00	-11.04	Horizontal
7386.00	23.00	36.75	11.76	26.90	44.61	54.00	-9.39	Horizontal
9848.00	18.94	38.79	14.31	25.30	46.74	54.00	-7.26	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					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:		802.11n(H	IT20)	Test	channel:	Lowe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	38.34	31.28	8.62	24.17	54.07	74.00	-19.93	Vertical
7236.00	30.64	35.36	11.68	26.52	51.16	74.00	-22.84	Vertical
9648.00	30.40	37.44	14.16	25.44	56.56	74.00	-17.44	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	36.07	31.28	8.62	24.17	51.80	74.00	-22.20	Horizontal
7236.00	29.43	35.36	11.68	26.52	49.95	74.00	-24.05	Horizontal
9648.00	29.33	37.44	14.16	25.44	55.49	74.00	-18.51	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	29.67	31.28	8.62	24.17	45.40	54.00	-8.60	Vertical
7236.00	25.18	35.36	11.68	26.52	45.70	54.00	-8.30	Vertical
9648.00	21.07	37.44	14.16	25.44	47.23	54.00	-6.77	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	25.81	31.28	8.62	24.17	41.54	54.00	-12.46	Horizontal
7236.00	23.07	35.36	11.68	26.52	43.59	54.00	-10.41	Horizontal
9648.00	17.99	37.44	14.16	25.44	44.15	54.00	-9.85	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:		802.11n(H	IT20)	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	37.51	32.02	8.66	24.12	54.07	74.00	-19.93	Vertical
7311.00	31.40	36.64	11.71	26.71	53.04	74.00	-20.96	Vertical
9748.00	31.88	38.54	14.25	25.38	59.29	74.00	-14.71	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	37.20	32.02	8.66	24.12	53.76	74.00	-20.24	Horizontal
7311.00	28.95	36.64	11.71	26.71	50.59	74.00	-23.41	Horizontal
9748.00	28.82	38.54	14.25	25.38	56.23	74.00	-17.77	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	28.00	32.02	8.66	24.12	44.56	54.00	-9.44	Vertical
7311.00	23.70	36.64	11.71	26.71	45.34	54.00	-8.66	Vertical
9748.00	20.50	38.54	14.25	25.38	47.91	54.00	-6.09	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	25.58	32.02	8.66	24.12	42.14	54.00	-11.86	Horizontal
7311.00	22.55	36.64	11.71	26.71	44.19	54.00	-9.81	Horizontal
9748.00	15.89	38.54	14.25	25.38	43.30	54.00	-10.70	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

^{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)	Te	st channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	1 4//41	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	37.79	32.14	8.70	24.05	54.58	74.00	-19.42	Vertical
7386.00	31.59	36.75	11.76	26.90	53.20	74.00	-20.80	Vertical
9848.00	31.11	38.79	14.31	25.30	58.91	74.00	-15.09	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	35.96	32.14	8.70	24.05	52.75	74.00	-21.25	Horizontal
7386.00	28.91	36.75	11.76	26.90	50.52	74.00	-23.48	Horizontal
9848.00	28.38	38.79	14.31	25.30	56.18	74.00	-17.82	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)	1 40/41	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	29.70	32.14	8.70	24.05	46.49	54.00	-7.51	Vertical
7386.00	25.98	36.75	11.76	26.90	47.59	54.00	-6.41	Vertical
9848.00	19.89	38.79	14.31	25.30	47.69	54.00	-6.31	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	26.29	32.14	8.70	24.05	43.08	54.00	-10.92	Horizontal
7386.00	22.81	36.75	11.76	26.90	44.42	54.00	-9.58	Horizontal
9848.00	15.45	38.79	14.31	25.30	43.25	54.00	-10.75	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					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:		802.11n(HT40)		Test	channel:	Lowest		
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	36.92	31.40	8.63	24.04	52.91	74.00	-21.09	Vertical
7266.00	30.09	35.96	11.69	26.47	51.27	74.00	-22.73	Vertical
9688.00	29.99	37.71	14.21	25.30	56.61	74.00	-17.39	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	35.65	31.40	8.63	24.04	51.64	74.00	-22.36	Horizontal
7266.00	30.20	35.96	11.69	26.47	51.38	74.00	-22.62	Horizontal
9688.00	30.16	37.71	14.21	25.30	56.78	74.00	-17.22	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
4844.00	29.05	31.40	8.63	24.04	45.04	54.00	-8.96	Vertical
7266.00	21.72	35.96	11.69	26.47	42.90	54.00	-11.10	Vertical
9688.00	17.69	37.71	14.21	25.30	44.31	54.00	-9.69	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	26.36	31.40	8.63	24.04	42.35	54.00	-11.65	Horizontal
7266.00	19.91	35.96	11.69	26.47	41.09	54.00	-12.91	Horizontal
9688.00	16.93	37.71	14.21	25.30	43.55	54.00	-10.45	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	802.11n(HT40) Test cha		t channel:	Middle		
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.51	32.02	8.66	24.12	55.07	74.00	-18.93	Vertical
7311.00	28.85	36.64	11.71	26.71	50.49	74.00	-23.51	Vertical
9748.00	28.59	38.54	14.25	25.38	56.00	74.00	-18.00	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	37.26	32.02	8.66	24.12	53.82	74.00	-20.18	Horizontal
7311.00	29.87	36.64	11.71	26.71	51.51	74.00	-22.49	Horizontal
9748.00	29.21	38.54	14.25	25.38	56.62	74.00	-17.38	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	27.86	32.02	8.66	24.12	44.42	54.00	-9.58	Vertical
7311.00	23.08	36.64	11.71	26.71	44.72	54.00	-9.28	Vertical
9748.00	17.99	38.54	14.25	25.38	45.40	54.00	-8.60	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	24.57	32.02	8.66	24.12	41.13	54.00	-12.87	Horizontal
7311.00	22.67	36.64	11.71	26.71	44.31	54.00	-9.69	Horizontal
9748.00	15.88	38.54	14.25	25.38	43.29	54.00	-10.71	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

^{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(HT40)		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	36.26	32.08	8.68	23.97	53.05	74.00	-20.95	Vertical
7356.00	28.67	36.69	11.74	26.73	50.37	74.00	-23.63	Vertical
9808.00	28.92	38.60	14.29	25.22	56.59	74.00	-17.41	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	35.70	32.08	8.68	23.97	52.49	74.00	-21.51	Horizontal
7356.00	29.27	36.69	11.74	26.73	50.97	74.00	-23.03	Horizontal
9808.00	29.01	38.60	14.29	25.22	56.68	74.00	-17.32	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	29.15	32.08	8.68	23.97	45.94	54.00	-8.06	Vertical
7356.00	23.40	36.69	11.74	26.73	45.10	54.00	-8.90	Vertical
9808.00	16.52	38.60	14.29	25.22	44.19	54.00	-9.81	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	26.08	32.08	8.68	23.97	42.87	54.00	-11.13	Horizontal
7356.00	21.07	36.69	11.74	26.73	42.77	54.00	-11.23	Horizontal
9808.00	17.88	38.60	14.29	25.22	45.55	54.00	-8.45	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

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.