

Global United Technology Services Co., Ltd.

Report No.: GTSE14080150201

FCC Report (WIFI)

Applicant: Haier Information Technology(Shenzhen)CO.,Ltd

Address of Applicant: B4 Room 21 Floor No.3 Tower Building Gaoxin South first

Road No.009, Nanshan, Shenzhen, China

Equipment Under Test (EUT)

Product Name: TABLET PC

Model No.: PAD700, A712, T7024D, T7024GMS

Trade Mark: Haier

FCC ID: 2ACZDPAD700

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

Date of sample receipt: Aug.22, 2014

Date of Test: Aug.22-Sept.01, 2014

Date of report issued: Sept.01, 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	Sept.01, 2014	Original

Prepared By:	Sam. Gao	Date:	Sept.01, 2014
	Project Engineer	_	
Check By:	hank. yan	Date:	Sept.01, 2014

Reviewer

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4 Test Summary

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

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

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5 General Information

5.1 Client Information

Applicant:	Haier Information Technology(Shenzhen)CO.,Ltd
Address of Applicant:	B4 Room 21 Floor No.3 Tower Building Gaoxin South first Road No.009, Nanshan, Shenzhen, China
Manufacturer:	Haier Information Technology(Shenzhen)CO.,Ltd
Address of Manufacturer:	B4 Room 21 Floor No.3 Tower Building Gaoxin South first Road No.009, Nanshan, Shenzhen, China

5.2 General Description of EUT

Product Name:	TABLET PC		
Model No.:	PAD700, A712, T7024D, T7024GMS		
Operation Frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz		
	802.11n(HT40): 2422MHz~2452MHz		
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11		
	802.11(HT40): 7		
Channel separation:	5MHz		
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS)		
	802.11g/802.11n(H20)/802.11n(H40):		
	Orthogonal Frequency Division Multiplexing (OFDM)		
Antenna Type:	Integral Antenna		
Antenna gain:	1.6dBi (declare by Applicant)		
Power supply:	Input: DC 5V, 2000mA from adapter		
	Or		
	DC 3.7V, 3000mA Li-ion Battery		
Adapter Information:	Model No.:JK050200-S04USA		
	Input: AC 100-240V, 50/60Hz, 0.5A		
	Output: DC 5V, 2000mA		



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:

Tankahamad	Frequency (MHz)			
Test channel	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)		
Lowest channel	2412MHz	2422MHz		
Middle channel	2437MHz	2437MHz		
Highest channel	2462MHz	2452MHz		

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: During the test it	the test voltage was tuned from 85% to 115% of the nominal rated supply

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 fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

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

China

Tel: 0755-27798480 Fax: 0755-27798960

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102

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6 Test Instruments list

Rad	Radiated Emission:							
Item	n 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. 28 2014	Mar. 27 2015		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Dec. 5, 2013	Dec. 4 2014		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	July 01 2014	June 30 2015		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July 01 2014	June 30 2015		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 28 2014	Mar. 27 2015		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 29 2014	Mar. 28 2015		
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 29 2014	Mar. 28 2015		
11	Coaxial cable	GTS	N/A	GTS210	Mar. 29 2014	Mar. 28 2015		
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 29 2014	Mar. 28 2015		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	July 01 2014	June 30 2015		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July 01 2014	June 30 2015		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015		
16	Band filter	Amindeon	82346	GTS219	Mar. 29 2014	Mar. 28 2015		
17	Power Meter	Anritsu	ML2495A	GTS540	July 01 2014	June 30 2015		
18	Power Sensor	Anritsu	MA2411B	GTS541	July 01 2014	June 30 2015		

Conc	Conducted Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 07 2013	Sep. 06 2015		
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	July 01 2014	June 30 2015		
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	July 01 2014	June 30 2015		
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	July 01 2014	June 30 2015		
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	July 01 2014	June 30 2015		
6	Coaxial Cable	GTS	N/A	GTS227	July 01 2014	June 30 2015		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		

Gen	General used equipment:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Barometer	ChangChun	DYM3	GTS257	July 08 2014	July 07 2015		



7 Test results and Measurement Data

7.1 Antenna requirement

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

15.203 requirement:

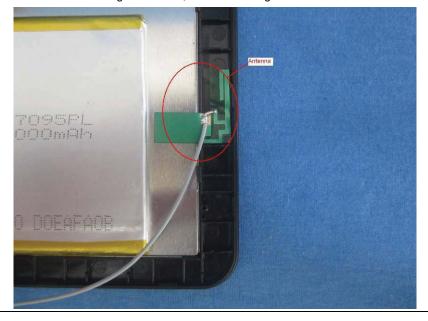
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The antenna is integral antenna, the best case gain of the antenna is 1.6dBi



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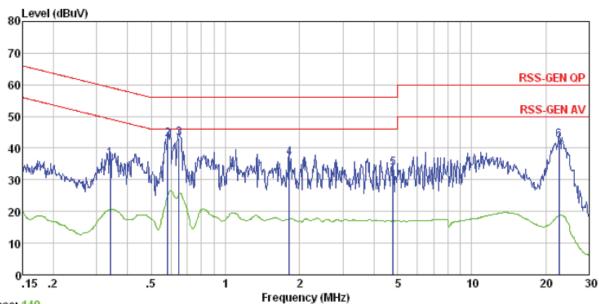
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.4:2003					
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto				
Limit:	Fraguerov rango (MHz)	Limit (c	dBuV)			
	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			
	* Decreases with the logarithn	n of the frequency.				
Test setup:	Reference Plane		_			
	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m					
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 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: 140

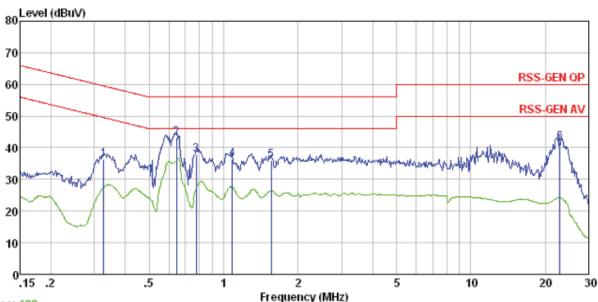
: RSS-GEN QP LISN-2013 LINE

Condition : RSS-GEN QF Job No. : 1502RF Test mode : WiFi mode Test Engineer: Mike

CDC	Freq	Read	LISN Factor					Remark
	MHz	dBuV	dB	d₿	dBu₹	dBuV	dB	
1 2	0.341 0.582		0.11 0.13					
2 3		42.88	0.13					
4	1.819	36.62		0.14				
5			0. 21					
6	22.655	41.37	0.90	0.23	42.50	60.00	-17.50	Ų٢



Neutral:



Trace: 138

Condition : RSS-GEN QP LISN-2013 NEUTRAL

Job No. : 1502RF Test mode : WiFi mode Test Engineer: Mike

,,,,	Freq	Read	LISN Factor				Over Limit	Remark
	MHz	dBu√	dB	dB	dBu₹	dBuV	dB	
1		36.14	0.06					
2		42. 98 37. 63	0. 07 0. 07	0.13				
4	1.082	36.23	0.08	0.13	36.44	56.00	-19.56	QP
5			0.09					-
6	22, 896	40, 49	0. 87	0.23	41.59	60.00	-18.41	NP.

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



7.3 Conducted Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)		
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03		
Limit:	30dBm		
Test setup:	POWER METER E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

Measurement Data

Test CH		Output l	Limit(dBm)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesuit
Lowest	7.49	7.02	6.51	5.58		Pass
Middle	7.46	7.05	6.53	5.45	30.00	
Highest	7.44	7.03	6.59	5.46		

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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

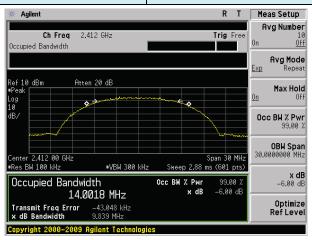
Test CH		Channel Ban	Limit(KHz)	Result		
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Lillit(KH2)	Nesuit
Lowest	9.839	16.524	17.652	36.123		Pass
Middle	9.209	16.541	17.637	36.103	>500	
Highest	9.579	16.513	17.691	36.136		

Test plot as follows:

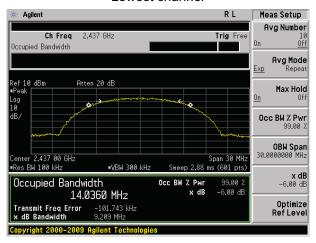
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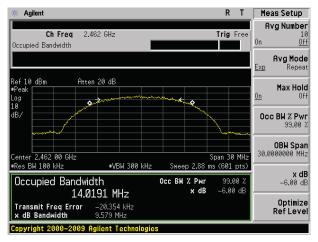
Test mode: 802.11b



Lowest channel



Middle channel

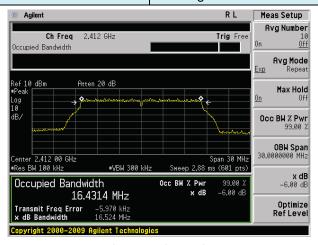


Highest channel

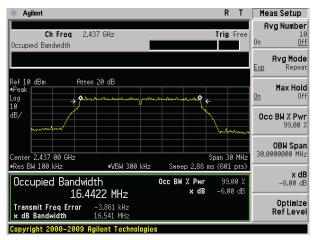
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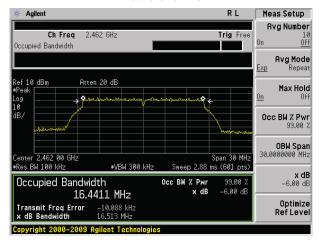
Test mode: 802.11g



Lowest channel



Middle channel

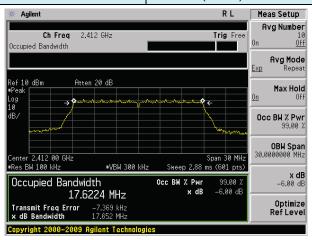


Highest channel

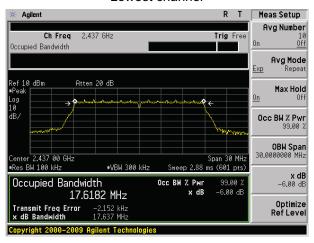
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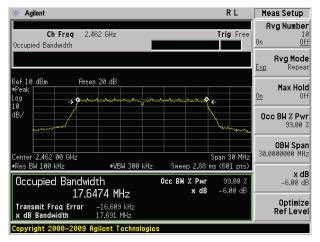
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

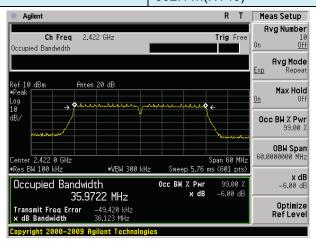


Highest channel

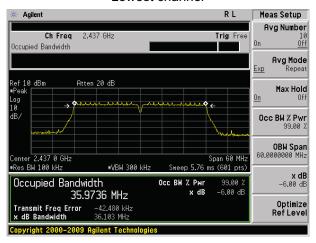
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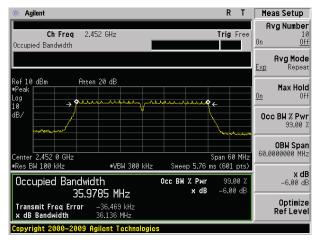
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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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

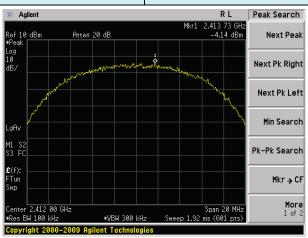
Test CH		Power Spectra	Limit(dBm/3kHz)	Result		
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(dBin/3Ki12)	Nesult
Lowest	-4.14	-5.25	-7.69	-11.38		Pass
Middle	-4.42	-5.57	-7.77	-11.18	8.00	
Highest	-3.28	-5.51	-7.49	-11.20		

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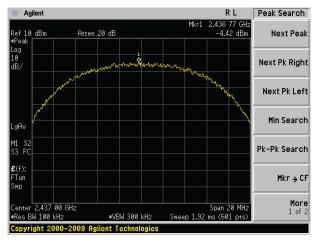


Test plot as follows:

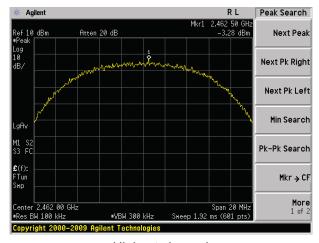
Test mode: 802.11b



Lowest channel



Middle channel

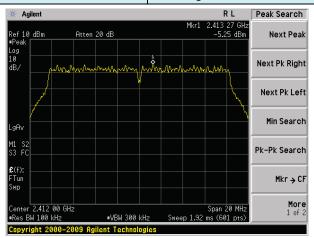


Highest channel

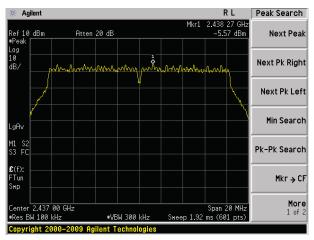
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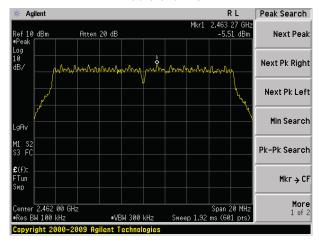
Test mode: 802.11g



Lowest channel



Middle channel

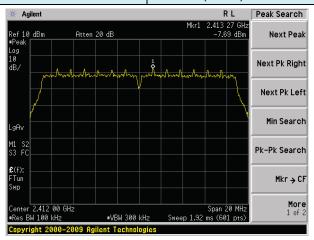


Highest channel

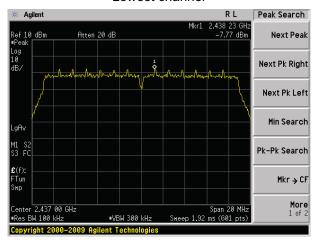
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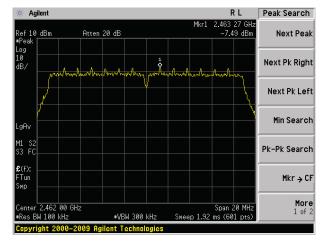
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

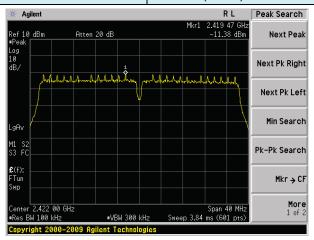


Highest channel

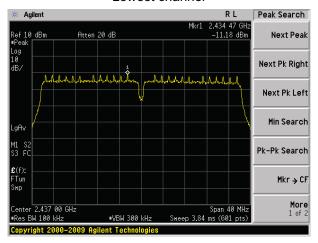
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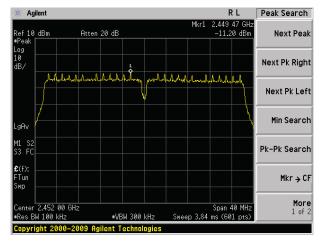
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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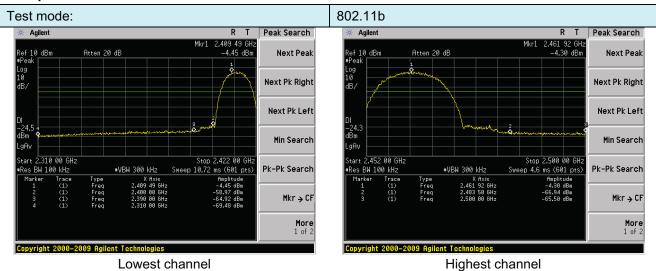
7.6 Band edges

7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass (30dBC requirement)				



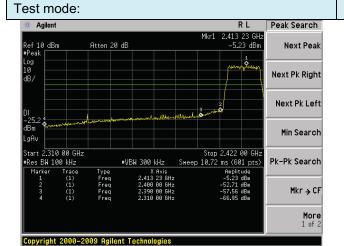
Test plot as follows:



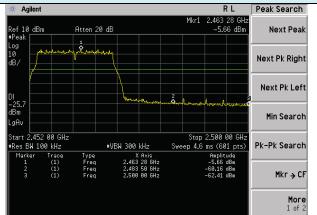
Lowest channel

802.11g

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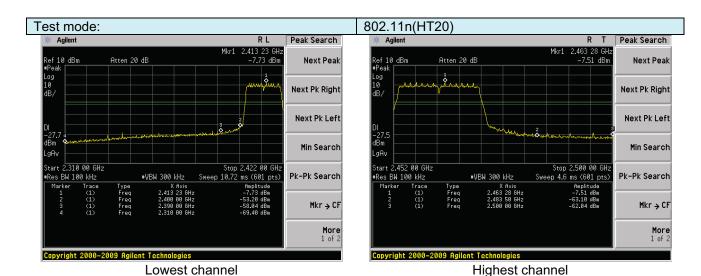
Lowest channel



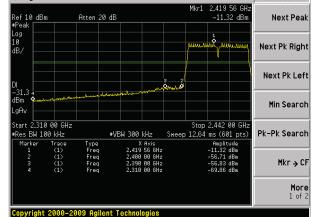
Highest channel

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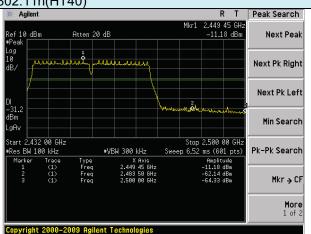








Lowest channel



Highest channel

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7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205							
Test Method:	ANSI C63.4: 20	ANSI C63.4: 2003						
Test Frequency Range:	All of the restric	t bands were t	ested, only	the worst b	and's (2390MHz to			
	2500MHz) data							
Test site:	Measurement D	istance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	715070 10112	RMS	1MHz	3MHz	Average			
Limit:	Freque	ency	Limit (dBuV		Value			
	Above 1	GHz	54.0		Average			
Test setup:			74.0	0	Peak			
	EUT Turn Table	4m Spectrum Analyzer						
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 6.0 for details			_			
Test mode:	Refer to section							
Test results:	Pass							



Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

Test mode:	802.11b	Test channel:	Lowest
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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	49.88	27.59	5.38	30.18	52.67	74.00	-21.33	Horizontal
2400.00	58.29	27.58	5.39	30.18	61.08	74.00	-12.92	Horizontal
2390.00	51.43	27.59	5.38	30.18	54.22	74.00	-19.78	Vertical
2400.00	59.61	27.58	5.39	30.18	62.40	74.00	-11.60	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	37.15	27.59	5.38	30.18	39.94	54.00	-14.06	Horizontal
2400.00	45.25	27.58	5.39	30.18	48.04	54.00	-5.96	Horizontal
2390.00	38.83	27.59	5.38	30.18	41.62	54.00	-12.38	Vertical
2400.00	46.24	27.58	5.39	30.18	49.03	54.00	-4.97	Vertical

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

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.77	27.53	5.47	29.93	52.84	74.00	-21.16	Horizontal
2500.00	46.17	27.55	5.49	29.93	49.28	74.00	-24.72	Horizontal
2483.50	51.67	27.53	5.47	29.93	54.74	74.00	-19.26	Vertical
2500.00	48.34	27.55	5.49	29.93	51.45	74.00	-22.55	Vertical

Average value:

- 111 G. m.g.c. 1 m								
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	37.25	27.53	5.47	29.93	40.32	54.00	-13.68	Horizontal
2500.00	33.69	27.55	5.49	29.93	36.80	54.00	-17.20	Horizontal
2483.50	39.03	27.53	5.47	29.93	42.10	54.00	-11.90	Vertical
2500.00	35.50	27.55	5.49	29.93	38.61	54.00	-15.39	Vertical

Remark:

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

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Project No.: GTSE140801502RF

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Test mode:		802.1	1g	Te	st channel:		Lowest	
Peak value:		,						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.10	27.59	5.38	30.18	51.89	74.00	-22.11	Horizontal
2400.00	57.25	27.58	5.39	30.18	60.04	74.00	-13.96	Horizontal
2390.00	50.60	27.59	5.38	30.18	53.39	74.00	-20.61	Vertical
2400.00	58.36	27.58	5.39	30.18	61.15	74.00	-12.85	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	36.59	27.59	5.38	30.18	39.38	54.00	-14.62	Horizontal
2400.00	44.61	27.58	5.39	30.18	47.40	54.00	-6.60	Horizontal
2390.00	38.21	27.59	5.38	30.18	41.00	54.00	-13.00	Vertical
2400.00	45.54	27.58	5.39	30.18	48.33	54.00	-5.67	Vertical
Test mode:		802.1	1g	Te	st channel:		Highest	
Peak value:	1				_		_	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.65	27.53	5.47	29.93	51.72	74.00	-22.28	Horizontal
2500.00	45.30	27.55	5.49	29.93	48.41	74.00	-25.59	Horizontal
2483.50	50.39	27.53	5.47	29.93	53.46	74.00	-20.54	Vertical
2500.00	47.33	27.55	5.49	29.93	50.44	74.00	-23.56	Vertical
Average va	lue:	1		T	1	ı	T	, ,
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
2483.50	36.57	27.53	5.47	29.93	39.64	54.00	-14.36	Horizontal
2500.00	33.16	27.55	5.49	29.93	36.27	54.00	-17.73	Horizontal
2483.50	38.29	27.53	5.47	29.93	41.36	54.00	-12.64	Vertical

2500.00 Remark:

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

5.49

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

29.93

38.05

54.00

Global United Technology Services Co., Ltd.

34.94

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27.55

-15.95

Vertical



Test mode:

Peak value:

Report No.: GTSE14080150201

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	49.48	27.59	5.38	30.18	52.27	74.00	-21.73	Horizontal		
2400.00	57.76	27.58	5.39	30.18	60.55	74.00	-13.45	Horizontal		
2390.00	51.01	27.59	5.38	30.18	53.80	74.00	-20.20	Vertical		
2400.00	58.97	27.58	5.39	30.18	61.76	74.00	-12.24	Vertical		
Average va	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	36.86	27.59	5.38	30.18	39.65	54.00	-14.35	Horizontal		
2400.00	44.92	27.58	5.39	30.18	47.71	54.00	-6.29	Horizontal		
2390.00	38.51	27.59	5.38	30.18	41.30	54.00	-12.70	Vertical		
2400.00	45.88	27.58	5.39	30.18	48.67	54.00	-5.33	Vertical		
Test mode:		802.1	1n(HT20)	Tes	st channel:	F	Highest			
Peak value										
Frequency (MHz)	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over			
	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	Limit (dB)	Polarization		
2483.50	49.20	(dB/m) 27.53						Polarization Horizontal		
2483.50 2500.00	, ,	` ,	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)			
-	49.20	27.53	(dB) 5.47	(dB) 29.93	(dBuV/m) 52.27	(dBuV/m) 74.00	(dB) -21.73	Horizontal		
2500.00	49.20 45.72	27.53 27.55	(dB) 5.47 5.49	(dB) 29.93 29.93	(dBuV/m) 52.27 48.83	74.00 74.00	(dB) -21.73 -25.17	Horizontal Horizontal		
2500.00 2483.50	49.20 45.72 51.02 47.83	27.53 27.55 27.53	(dB) 5.47 5.49 5.47	(dB) 29.93 29.93 29.93	(dBuV/m) 52.27 48.83 54.09	74.00 74.00 74.00 74.00	(dB) -21.73 -25.17 -19.91	Horizontal Horizontal Vertical		
2500.00 2483.50 2500.00	49.20 45.72 51.02 47.83	27.53 27.55 27.53	(dB) 5.47 5.49 5.47	(dB) 29.93 29.93 29.93	(dBuV/m) 52.27 48.83 54.09	(dBuV/m) 74.00 74.00 74.00 74.00 Limit Line	(dB) -21.73 -25.17 -19.91	Horizontal Horizontal Vertical		
2500.00 2483.50 2500.00 Average va Frequency	49.20 45.72 51.02 47.83 lue: Read Level	27.53 27.55 27.53 27.55 Antenna Factor	(dB) 5.47 5.49 5.47 5.49 Cable Loss	(dB) 29.93 29.93 29.93 29.93 Preamp Factor	(dBuV/m) 52.27 48.83 54.09 50.94 Level	(dBuV/m) 74.00 74.00 74.00 74.00 Limit Line	(dB) -21.73 -25.17 -19.91 -23.06 Over Limit	Horizontal Horizontal Vertical Vertical		
2500.00 2483.50 2500.00 Average va Frequency (MHz)	49.20 45.72 51.02 47.83 lue: Read Level (dBuV)	27.53 27.55 27.53 27.55 Antenna Factor (dB/m)	(dB) 5.47 5.49 5.47 5.49 Cable Loss (dB)	(dB) 29.93 29.93 29.93 29.93 Preamp Factor (dB)	(dBuV/m) 52.27 48.83 54.09 50.94 Level (dBuV/m)	74.00 74.00 74.00 74.00 Tumit Line (dBuV/m)	(dB) -21.73 -25.17 -19.91 -23.06 Over Limit (dB)	Horizontal Horizontal Vertical Vertical Polarization		
2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50	49.20 45.72 51.02 47.83 Iue: Read Level (dBuV) 36.90	27.53 27.55 27.55 27.55 Antenna Factor (dB/m) 27.53	(dB) 5.47 5.49 5.47 5.49 Cable Loss (dB) 5.47	(dB) 29.93 29.93 29.93 Preamp Factor (dB) 29.93	(dBuV/m) 52.27 48.83 54.09 50.94 Level (dBuV/m) 39.97	(dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	(dB) -21.73 -25.17 -19.91 -23.06 Over Limit (dB) -14.03	Horizontal Horizontal Vertical Vertical Polarization Horizontal		
2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50 2500.00	49.20 45.72 51.02 47.83 lue: Read Level (dBuV) 36.90 33.42	27.53 27.55 27.55 27.55 Antenna Factor (dB/m) 27.53 27.55	(dB) 5.47 5.49 5.49 Cable Loss (dB) 5.47 5.49	(dB) 29.93 29.93 29.93 Preamp Factor (dB) 29.93 29.93	(dBuV/m) 52.27 48.83 54.09 50.94 Level (dBuV/m) 39.97 36.53	(dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00 54.00	(dB) -21.73 -25.17 -19.91 -23.06 Over Limit (dB) -14.03 -17.47	Horizontal Horizontal Vertical Vertical Polarization Horizontal Horizontal		

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.

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Test mode:

Peak value:

Report No.: GTSE14080150201

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	48.52	27.59	5.38	30.18	51.31	74.00	-22.69	Horizontal
2400.00	56.48	27.58	5.39	30.18	59.27	74.00	-14.73	Horizontal
2390.00	49.98	27.59	5.38	30.18	52.77	74.00	-21.23	Vertical
2400.00	57.43	27.58	5.39	30.18	60.22	74.00	-13.78	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	36.18	27.59	5.38	30.18	38.97	54.00	-15.03	Horizontal
2400.00	44.14	27.58	5.39	30.18	46.93	54.00	-7.07	Horizontal
2390.00	37.75	27.59	5.38	30.18	40.54	54.00	-13.46	Vertical
2400.00	45.02	27.58	5.39	30.18	47.81	54.00	-6.19	Vertical
		ı		I	I.			l .
Test mode:		802.1	1n(HT40)	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	47.83	27.53	5.47	29.93	50.90	74.00	-23.10	Horizontal
2500.00	44.66	27.55	5.49	29.93	47.77	74.00	-26.23	Horizontal
2483.50	49.45	27.53	5.47	29.93	52.52	74.00	-21.48	Vertical
2500.00	46.58	27.55	5.49	29.93	49.69	74.00	-24.31	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	36.07	27.53	5.47	29.93	39.14	54.00	-14.86	Horizontal
2500.00	32.77	27.55	5.49	29.93	35.88	54.00	-18.12	Horizontal
2483.50	37.74	27.53	5.47	29.93	40.81	54.00	-13.19	Vertical
2500.00	34.53	27.55	5.49	29.93	37.64	54.00	-16.36	Vertical
Remark:								

Test channel:

802.11n(HT40)

Global United Technology Services Co., Ltd.

 ${\it 2nd Floor, Block No. 2, Laodong Industrial Zone, Xixiang Road Baoan District,}\\$

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

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

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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 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass (30dBC requirement)				

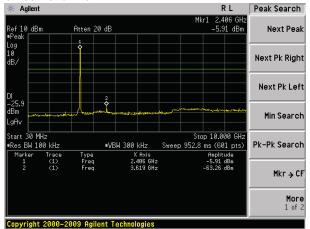


Test plot as follows:

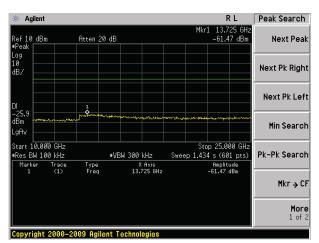
Test mode:

802.11b

Lowest channel

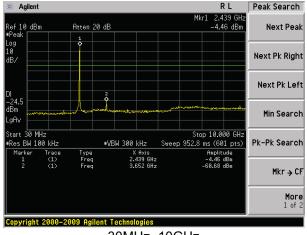


30MHz~10GHz

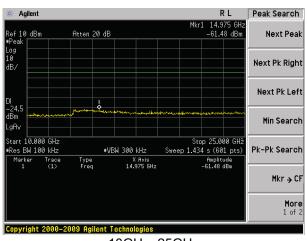


10GHz~25GHz

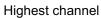
Middle channel

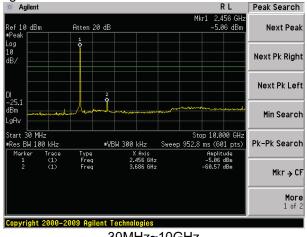


30MHz~10GHz

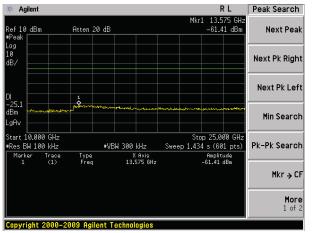


10GHz~25GHz





30MHz~10GHz



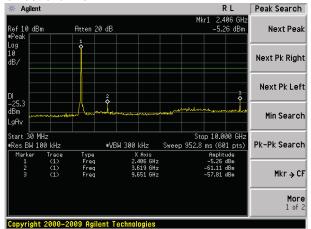
10GHz~25GHz



Test mode:

802.11g

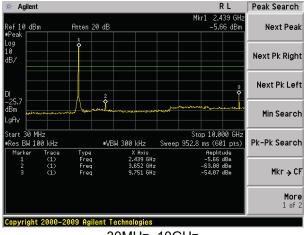
Lowest channel



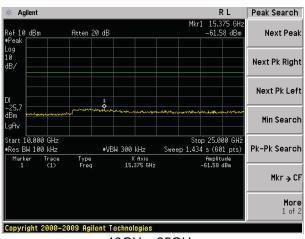
30MHz~10GHz

10GHz~25GHz

Middle channel

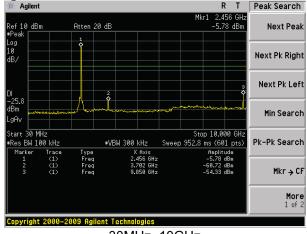


30MHz~10GHz

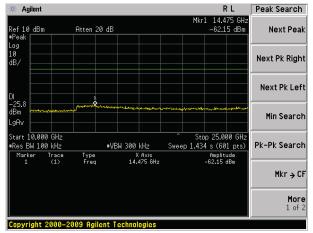


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



R L

Amplitude -61.28 dBm

Peak Search

Mkr → CF

More 1 of 2

Test mode:

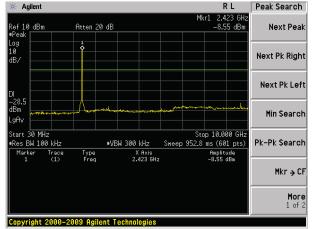
802.11n(HT20)

Type Freq

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🔆 Agilent

Lowest channel



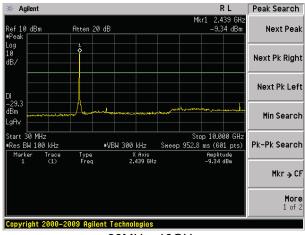
30MHz~10GHz

Ref 10 dBm Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GHz Sweep 1.434 s (601 pts) Start 10.000 GHz Pk-Pk Search #VBW 300 kHz Res BW 100 kHz

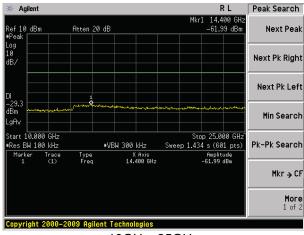
X Axis 14.325 GHz

10GHz~25GHz

Middle channel

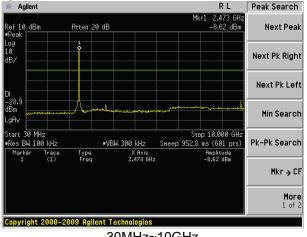


30MHz~10GHz

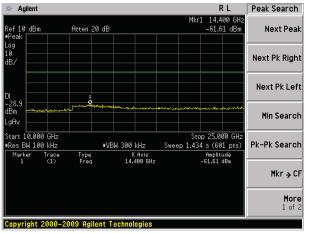


10GHz~25GHz





30MHz~10GHz



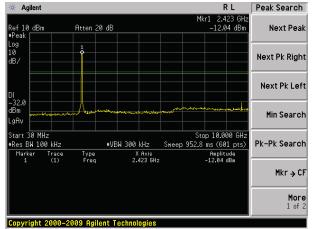
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

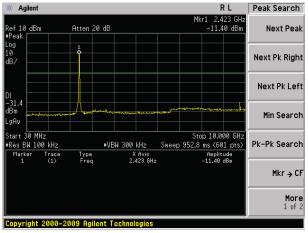


30MHz~10GHz

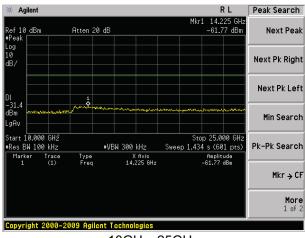
Peak Search Agilent 🖟 13.850 GH -61.64 dBm Ref 10 dBm Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search _gAv Stop 25.000 GHz Sweep 1.434 s (601 pts) Start 10.000 GHz #VBW 300 kHz Pk-Pk Search Res BW 100 kHz Type Freq X Axis 13.850 GHz Amplitude -61.64 dBm Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

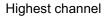
Middle channel

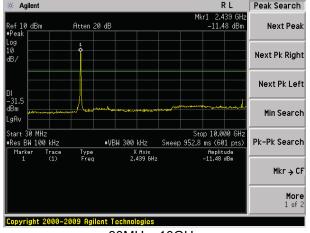


30MHz~10GHz

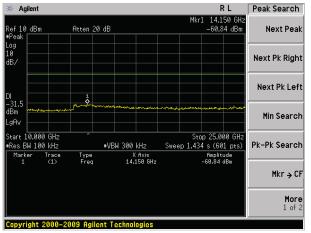


10GHz~25GHz





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	7 =								
Test site:	Measurement Dis	stance: 3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Value					
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak					
	Above 1GHz	Peak	1MHz	3MHz	Peak					
	Above 1G112	RMS	1MHz	3MHz	Average					
Limit:	Frequen	icy	Limit (dBuV	/m @3m)	Value					
	30MHz-88	MHz	40.0	0	Quasi-peak					
	88MHz-216	6MHz	43.5	0	Quasi-peak					
	216MHz-96	0MHz	46.0	0	Quasi-peak					
	960MHz-1	960MHz-1GHz 54.00 Quasi-peak								
	Above 10	NU-	54.0	0	Average					
	Above 10	Above 1GHz 74.00 Peak								
	Tum 0.8m Table 0.8m A A Above 1GHz	Above 1GHz Antenna Tower								

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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.
	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
31.843	46.18	14.32	0.57	32.06	29.01	40	-10.99	Vertical
58.613	44.31	14.78	0.85	31.94	28	40	-12	Vertical
121.123	51.15	12.29	1.37	31.86	32.95	43.5	-10.55	Vertical
167.824	54.13	10.9	1.67	32.04	34.66	43.5	-8.84	Vertical
349.25	40.59	16.27	2.62	32.03	27.45	46	-18.55	Vertical
804.603	35.92	22.1	4.48	31.31	31.19	46	-14.81	Vertical
31.071	40.04	14.32	0.56	32.06	22.86	40	-17.14	Horizontal
59.232	41.85	14.74	0.85	31.94	25.5	40	-14.5	Horizontal
134.088	54.17	10.61	1.47	31.92	34.33	43.5	-9.17	Horizontal
180.017	51.68	11.68	1.74	32.08	33.02	43.5	-10.48	Horizontal
468.876	42.53	17.83	3.18	31.65	31.89	46	-14.11	Horizontal
925.756	35.47	23.28	4.95	31.2	32.5	46	-13.5	Horizontal



■ Above 1GHz

Test mode:		802.11b		Test	channel:	Lowe	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
4824.00	38.23	31.79	8.62	32.10	46.54	74.00	-27.46	Vertical
7236.00	32.91	36.19	11.68	31.97	48.81	74.00	-25.19	Vertical
9648.00	31.78	38.07	14.16	31.56	52.45	74.00	-21.55	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	37.22	31.79	8.62	32.10	45.53	74.00	-28.47	Horizontal
7236.00	32.82	36.19	11.68	31.97	48.72	74.00	-25.28	Horizontal
9648.00	31.43	38.07	14.16	31.56	52.10	74.00	-21.90	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	27.47	31.79	8.62	32.10	35.78	54.00	-18.22	Vertical
7236.00	21.82	36.19	11.68	31.97	37.72	54.00	-16.28	Vertical
9648.00	22.16	38.07	14.16	31.56	42.83	54.00	-11.17	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	26.86	31.79	8.62	32.10	35.17	54.00	-18.83	Horizontal
7236.00	21.44	36.19	11.68	31.97	37.34	54.00	-16.66	Horizontal
9648.00	21.21	38.07	14.16	31.56	41.88	54.00	-12.12	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			Test channel:			Middl	le	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	tor	Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4874.00	37.64	31.85	8.66	32.	12	46.03	74.0	00	-27.97	Vertical
7311.00	33.21	36.37	11.71	31.	91	49.38	74.0	00	-24.62	Vertical
9748.00	32.96	38.27	14.25	31.	56	53.92	74.0	00	-20.08	Vertical
12185.00	*						74.0	00		Vertical
14622.00	*						74.0	00		Vertical
17059.00	*						74.0	00		Vertical
4874.00	38.38	31.85	8.66	32.	12	46.77	74.0	00	-27.23	Horizontal
7311.00	31.99	36.37	11.71	31.	91	48.16	74.0	00	-25.84	Horizontal
9748.00	32.91	38.27	14.25	31.	56	53.87	74.0	00	-20.13	Horizontal
12185.00	*						74.0	00		Horizontal
14622.00	*						74.0	00		Horizontal
17059.00	*						74.0	00		Horizontal
Average val	ue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	28.63	31.85	8.66	32.	12	37.02	54.0	00	-16.98	Vertical
7311.00	21.56	36.37	11.71	31.	91	37.73	54.0	00	-16.27	Vertical
9748.00	22.24	38.27	14.25	31.	56	43.20	54.0	00	-10.80	Vertical
12185.00	*						54.0	00		Vertical
14622.00	*						54.0	00		Vertical
17059.00	*						54.0	00		Vertical
4874.00	28.59	31.85	8.66	32.	12	36.98	54.0	00	-17.02	Horizontal
7311.00	21.10	36.37	11.71	31.	91	37.27	54.0	00	-16.73	Horizontal
9748.00	22.65	38.27	14.25	31.	56	43.61	54.0	00	-10.39	Horizontal
12185.00	*						54.0	00		Horizontal
14622.00	*						54.0	00		Horizontal
17059.00	*					_	54.0	00		Horizontal

Remark:

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



Test mode:		802.11b			Test channel:			Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	41.93	31.90	8.70	32.	15	50.38	74.0	00	-23.62	Vertical
7386.00	33.10	36.49	11.76	31.	83	49.52	74.0	00	-24.48	Vertical
9848.00	35.70	38.62	14.31	31.	77	56.86	74.0	00	-17.14	Vertical
12310.00	*						74.0	00		Vertical
14772.00	*						74.0	00		Vertical
17234.00	*						74.0	00		Vertical
4924.00	41.70	31.90	8.70	32.	15	50.15	74.0	00	-23.85	Horizontal
7386.00	32.24	36.49	11.76	31.	83	48.66	74.0	00	-25.34	Horizontal
9848.00	31.97	38.62	14.31	31.	77	53.13	74.0	00	-20.87	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)	Prea Fac (dl	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	33.08	31.90	8.70	32.	15	41.53	54.0	00	-12.47	Vertical
7386.00	23.08	36.49	11.76	31.	83	39.50	54.0	00	-14.50	Vertical
9848.00	24.25	38.62	14.31	31.	77	45.41	54.0	00	-8.59	Vertical
12310.00	*						54.0	00		Vertical
14772.00	*						54.0	00		Vertical
17234.00	*						54.0	00		Vertical
4924.00	32.21	31.90	8.70	32.	15	40.66	54.0	00	-13.34	Horizontal
7386.00	21.67	36.49	11.76	31.	83	38.09	54.0	00	-15.91	Horizontal
9848.00	21.27	38.62	14.31	31.	77	42.43	54.0	00	-11.57	Horizontal
12310.00	*						54.	00		Horizontal
14772.00	*						54.	00		Horizontal
17234.00	*				_		54.	00		Horizontal

Remark:

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



Test mode:		802.11g		Test	channel:	lowe	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	37.14	31.79	8.62	32.10	45.45	74.00	-28.55	Vertical
7236.00	32.23	36.19	11.68	31.97	48.13	74.00	-25.87	Vertical
9648.00	31.29	38.07	14.16	31.56	51.96	74.00	-22.04	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	36.30	31.79	8.62	32.10	44.61	74.00	-29.39	Horizontal
7236.00	32.23	36.19	11.68	31.97	48.13	74.00	-25.87	Horizontal
9648.00	30.98	38.07	14.16	31.56	51.65	74.00	-22.35	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	ue:			l			l	
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	26.47	31.79	8.62	32.10	34.78	54.00	-19.22	Vertical
7236.00	21.16	36.19	11.68	31.97	37.06	54.00	-16.94	Vertical
9648.00	21.69	38.07	14.16	31.56	42.36	54.00	-11.64	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	26.01	31.79	8.62	32.10	34.32	54.00	-19.68	Horizontal
7236.00	20.86	36.19	11.68	31.97	36.76	54.00	-17.24	Horizontal
9648.00	20.77	38.07	14.16	31.56	41.44	54.00	-12.56	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:		802.11g			Test channel:			Middl	le	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	tor	Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4874.00	36.74	31.85	8.66	32.	12	45.13	74.0	00	-28.87	Vertical
7311.00	32.64	36.37	11.71	31.	91	48.81	74.0	00	-25.19	Vertical
9748.00	32.55	38.27	14.25	31.	56	53.51	74.0	00	-20.49	Vertical
12185.00	*						74.0	00		Vertical
14622.00	*						74.0	00		Vertical
17059.00	*						74.0	00		Vertical
4874.00	37.63	31.85	8.66	32.	12	46.02	74.0	00	-27.98	Horizontal
7311.00	31.49	36.37	11.71	31.	91	47.66	74.0	00	-26.34	Horizontal
9748.00	32.54	38.27	14.25	31.	56	53.50	74.0	00	-20.50	Horizontal
12185.00	*						74.0	00		Horizontal
14622.00	*						74.0	00		Horizontal
17059.00	*						74.0	00		Horizontal
Average val	ue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	27.80	31.85	8.66	32.	12	36.19	54.0	00	-17.81	Vertical
7311.00	21.01	36.37	11.71	31.	91	37.18	54.0	00	-16.82	Vertical
9748.00	21.86	38.27	14.25	31.	56	42.82	54.0	00	-11.18	Vertical
12185.00	*						54.0	00		Vertical
14622.00	*						54.0	00		Vertical
17059.00	*						54.0	00		Vertical
4874.00	27.88	31.85	8.66	32.	12	36.27	54.0	00	-17.73	Horizontal
7311.00	20.62	36.37	11.71	31.	91	36.79	54.0	00	-17.21	Horizontal
9748.00	22.29	38.27	14.25	31.	56	43.25	54.0	00	-10.75	Horizontal
12185.00	*						54.0	00		Horizontal
14622.00	*						54.0	00		Horizontal
17059.00	*						54.0	00		Horizontal

Remark:

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



Test mode:		802.11g		1	Test channel:			Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4924.00	40.39	31.90	8.70	32.1	5	48.84	74.0	00	-25.16	Vertical
7386.00	32.13	36.49	11.76	31.8	3	48.55	74.0	00	-25.45	Vertical
9848.00	35.00	38.62	14.31	31.7	7	56.16	74.0	00	-17.84	Vertical
12310.00	*						74.0	00		Vertical
14772.00	*						74.0	00		Vertical
17234.00	*						74.0	00		Vertical
4924.00	40.39	31.90	8.70	32.1	5	48.84	74.0	00	-25.16	Horizontal
7386.00	31.38	36.49	11.76	31.8	3	47.80	74.0	00	-26.20	Horizontal
9848.00	31.33	38.62	14.31	31.7	7	52.49	74.0	00	-21.51	Horizontal
12310.00	*						74.0	00		Horizontal
14772.00	*						74.0	00		Horizontal
17234.00	*						74.0	00		Horizontal
Average val	ue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit I (dBu\		Over Limit (dB)	polarization
4924.00	31.66	31.90	8.70	32.1	5	40.11	54.0	00	-13.89	Vertical
7386.00	22.14	36.49	11.76	31.8	3	38.56	54.0	00	-15.44	Vertical
9848.00	23.58	38.62	14.31	31.7	7	44.74	54.0	00	-9.26	Vertical
12310.00	*						54.0	00		Vertical
14772.00	*						54.0	00		Vertical
17234.00	*						54.0	00		Vertical
4924.00	30.99	31.90	8.70	32.1	5	39.44	54.0	00	-14.56	Horizontal
7386.00	20.85	36.49	11.76	31.8	3	37.27	54.0	00	-16.73	Horizontal
9848.00	20.65	38.62	14.31	31.7	7	41.81	54.0	00	-12.19	Horizontal
12310.00	*						54.0	00		Horizontal
14772.00	*						54.0	00		Horizontal
17234.00	*						54.0	00		Horizontal

Remark:

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



Test mode:		802.11n(H	T20)	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	37.66	31.79	8.62	32.10	45.97	74.00	-28.03	Vertical
7236.00	32.55	36.19	11.68	31.97	48.45	74.00	-25.55	Vertical
9648.00	31.52	38.07	14.16	31.56	52.19	74.00	-21.81	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	36.74	31.79	8.62	32.10	45.05	74.00	-28.95	Horizontal
7236.00	32.51	36.19	11.68	31.97	48.41	74.00	-25.59	Horizontal
9648.00	31.19	38.07	14.16	31.56	51.86	74.00	-22.14	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	26.95	31.79	8.62	32.10	35.26	54.00	-18.74	Vertical
7236.00	21.48	36.19	11.68	31.97	37.38	54.00	-16.62	Vertical
9648.00	21.92	38.07	14.16	31.56	42.59	54.00	-11.41	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	26.41	31.79	8.62	32.10	34.72	54.00	-19.28	Horizontal
7236.00	21.14	36.19	11.68	31.97	37.04	54.00	-16.96	Horizontal
9648.00	20.98	38.07	14.16	31.56	41.65	54.00	-12.35	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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



Test mode:		802.11n(H	IT20)	Test	channel:	Middle		
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	37.17	31.85	8.66	32.12	45.56	74.00	-28.44	Vertical
7311.00	32.91	36.37	11.71	31.91	49.08	74.00	-24.92	Vertical
9748.00	32.75	38.27	14.25	31.56	53.71	74.00	-20.29	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	37.99	31.85	8.66	32.12	46.38	74.00	-27.62	Horizontal
7311.00	31.73	36.37	11.71	31.91	47.90	74.00	-26.10	Horizontal
9748.00	32.71	38.27	14.25	31.56	53.67	74.00	-20.33	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	28.20	31.85	8.66	32.12	36.59	54.00	-17.41	Vertical
7311.00	21.28	36.37	11.71	31.91	37.45	54.00	-16.55	Vertical
9748.00	22.04	38.27	14.25	31.56	43.00	54.00	-11.00	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	28.22	31.85	8.66	32.12	36.61	54.00	-17.39	Horizontal
7311.00	20.85	36.37	11.71	31.91	37.02	54.00	-16.98	Horizontal
9748.00	22.46	38.27	14.25	31.56	43.42	54.00	-10.58	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. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)		Test channel:			Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	41.12	31.90	8.70	32.	15	49.57	74.	00	-24.43	4924.00
7386.00	32.59	36.49	11.76	31.	83	49.01	74.	00	-24.99	7386.00
9848.00	35.33	38.62	14.31	31.	77	56.49	74.	00	-17.51	9848.00
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	41.01	31.90	8.70	32.	15	49.46	74.	00	-24.54	Horizontal
7386.00	31.79	36.49	11.76	31.	83	48.21	74.	00	-25.79	Horizontal
9848.00	31.63	38.62	14.31	31.	77	52.79	74.	00	-21.21	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)	Prea Fac (dl	tor	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	32.33	31.90	8.70	32.	15	40.78	54.	00	-13.22	Vertical
7386.00	22.59	36.49	11.76	31.	83	39.01	54.	00	-14.99	Vertical
9848.00	23.90	38.62	14.31	31.	77	45.06	54.	00	-8.94	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4924.00	31.57	31.90	8.70	32.	15	40.02	54.	00	-13.98	Horizontal
7386.00	21.24	36.49	11.76	31.	83	37.66	54.	00	-16.34	Horizontal
9848.00	20.95	38.62	14.31	31.	77	42.11	54.	00	-11.89	Horizontal
12310.00	*						54.	00		Horizontal
14772.00	*						54.	00		Horizontal
17234.00	*						54.	00		Horizontal

Remark:

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

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



Test mode:		802.11n(H	IT40)	Te	st channel:	Lowe	est	
Peak value:		•		•		•		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	l Level	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	36.79	31.81	8.63	32.11	45.12	74.00	-28.88	Vertical
7266.00	32.00	36.28	11.69	31.94	48.03	74.00	-25.97	Vertical
9688.00	31.13	38.13	14.21	31.52	51.95	74.00	-22.05	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	36.00	31.81	8.63	32.11	44.33	74.00	-29.67	Horizontal
7266.00	32.03	36.28	11.69	31.94	48.06	74.00	-25.94	Horizontal
9688.00	30.83	38.13	14.21	31.52	51.65	74.00	-22.35	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	26.15	31.81	8.63	32.11	34.48	54.00	-19.52	Vertical
7266.00	20.95	36.28	11.69	31.94	36.98	54.00	-17.02	Vertical
9688.00	21.54	38.13	14.21	31.52	42.36	54.00	-11.64	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	25.72	31.81	8.63	32.11	34.05	54.00	-19.95	Horizontal
7266.00	20.67	36.28	11.69	31.94	36.70	54.00	-17.30	Horizontal
9688.00	20.63	38.13	14.21	31.52	41.45	54.00	-12.55	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*			_		54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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



Test mode:		802.11n(H	IT40)		Test channe		Middle		
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit L (dBuV/	I I Imit	polarization
4874.00	36.45	31.85	8.66	32	.12	44.84	74.00	-29.16	Vertical
7311.00	32.46	36.37	11.71	31	.91	48.63	74.00	25.37	Vertical
9748.00	32.42	38.27	14.25	31	.56	53.38	74.00	-20.62	Vertical
12185.00	*						74.00	0	Vertical
14622.00	*						74.00	0	Vertical
17059.00	*						74.00	0	Vertical
4874.00	37.38	31.85	8.66	32	.12	45.77	74.00	0 -28.23	Horizontal
7311.00	31.33	36.37	11.71	31	.91	47.50	74.00	0 -26.50	Horizontal
9748.00	32.41	38.27	14.25	31.56		53.37	74.00	0 -20.63	Horizontal
12185.00	*						74.00	0	Horizontal
14622.00	*						74.00	0	Horizontal
17059.00	*						74.0	0	Horizontal
Average val	ue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor B)	Level (dBuV/m)	Limit L (dBuV/	l limit	polarization
4874.00	27.53	31.85	8.66	32	.12	35.92	54.00	0 -18.08	Vertical
7311.00	20.84	36.37	11.71	31	.91	37.01	54.00	-16.99	Vertical
9748.00	21.73	38.27	14.25	31	.56	42.69	54.00	0 -11.31	Vertical
12185.00	*						54.00	0	Vertical
14622.00	*						54.00	0	Vertical
17059.00	*						54.00	0	Vertical
4874.00	27.64	31.85	8.66	32	.12	36.03	54.00	0 -17.97	Horizontal
7311.00	20.46	36.37	11.71	31	.91	36.63	54.00	0 -17.37	Horizontal
9748.00	22.17	38.27	14.25	31	.56	43.13	54.00	0 -10.87	Horizontal
12185.00	*						54.00	0	Horizontal
14622.00	*						54.00	0	Horizontal
17059.00	*						54.0	0	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:		802.11n(H	IT40)	Test	channel:	Highest		
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	39.88	31.88	8.68	32.13	48.31	74.00	-25.69	Vertical
7356.00	31.81	36.45	11.75	31.86	48.15	74.00	-25.85	Vertical
9808.00	34.77	38.43	14.29	31.68	55.81	74.00	-18.19	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	39.97	31.88	8.68	32.13	48.40	74.00	-25.60	Horizontal
7356.00	31.10	36.45	11.75	31.86	47.44	74.00	-26.56	Horizontal
9808.00	31.11	38.43	14.29	31.68	52.15	74.00	-21.85	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	31.19	31.88	8.68	32.13	39.62	54.00	-14.38	Vertical
7356.00	21.83	36.45	11.75	31.86	38.17	54.00	-15.83	Vertical
9808.00	23.36	38.43	14.29	31.68	44.40	54.00	-9.60	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	30.59	31.88	8.68	32.13	39.02	54.00	-14.98	Horizontal
7356.00	20.58	36.45	11.75	31.86	36.92	54.00	-17.08	Horizontal
9808.00	20.45	38.43	14.29	31.68	41.49	54.00	-12.51	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

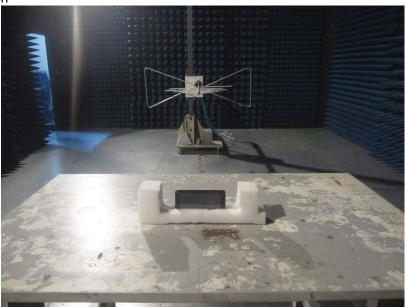
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.

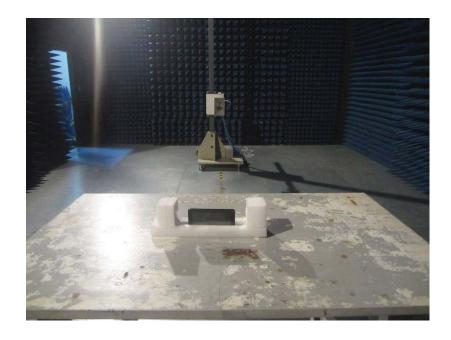


Project No.: GTSE140801502RF

8 Test Setup Photo

Radiated Emission







Project No.: GTSE140801502RF

Conducted Emission





9 EUT Constructional Details











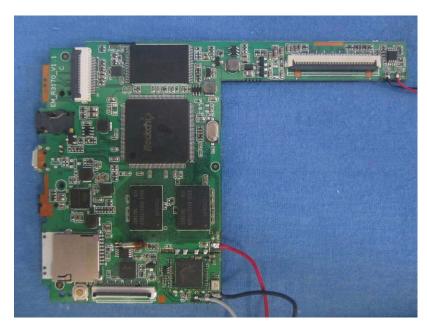




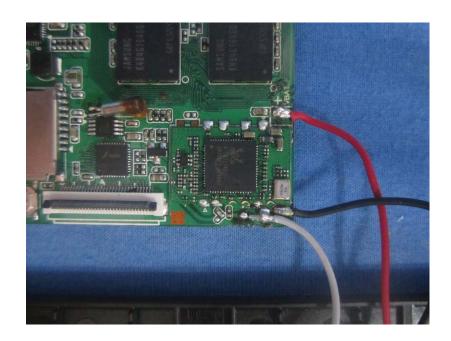






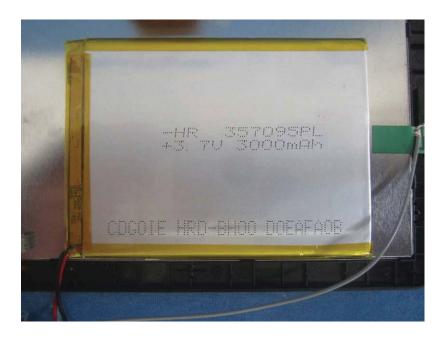












Adapter:



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