

Global United Technology Services Co., Ltd.

Report No.: GTSE15010009901

FCC Report (WIFI)

Applicant: National Checking Company

Address of Applicant: 899 Montreal Circle St. Paul MN 55102

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: DCG-V100MDT

FCC ID: 2AD4TDCGV100MDT

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

Date of sample receipt: January 27, 2015

Date of Test: February 08-10, 2015

Date of report issued: February 10, 2015

Test Result: PASS *

Authorized Signature:



Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in 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	February 10, 2015	Original	

Prepared By:	Edward. Parl	Date:	February 10, 2015
	Project Engineer	_	
Check By:	hank. yan	Date:	February 10, 2015
	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:	National Checking Company
Address of Applicant:	899 Montreal Circle St. Paul MN 55102
Manufacturer:	National Checking Company
Address of Manufacturer:	899 Montreal Circle St. Paul MN 55102
Factory:	SHENZHEN GIEC ELECTRIC MANUFACTORY CO.,LTD.
Address of Factory:	No.1 Building, Factory, No.7 District, Dayang Development Areas, FuYong Street, Baoan, Shenzhen, Guangdong, China

5.2 General Description of EUT

Product Name:	Tablet PC
Model No.:	DCG-V100MDT
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:	FPCB antenna
Antenna gain:	1.0dBi (declare by Applicant)
Power supply:	Model No.: GT-WCAU05000200-303
	Input: AC 100-240V, 50-60Hz, 0.4A Max.
	Output: DC 5.0V, 2000mA
	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:

Toot abound	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 (dutycycle>98%)
-------------------	--

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.

Remark: Product Name: Tablet PC with FCC ID: 2AD4TDCGV100MDT is electrically identical with the Product Name: Tablet PC, FCC ID: ZVR-10DTB12A; Models: DCG-V100MDT, only applicant name, address, manufacture name, address, FCC ID, and label are different. So the test report of FCC ID: 2AD4TDCGV100MDT have same test data with test report of FCC ID: ZVR-10DTB12A.

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5.5 Test Facility

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

• CNAS —Registration No.: CNAS L5775

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

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

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

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

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

China

Tel: 0755-27798480 Fax: 0755-27798960

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

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6 Test Instruments list

Radi	Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	1 3m Semi- Anechoic 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	July 01 2014	June 30 2015		
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		

Cond	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	July 01 2014	June 30 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:

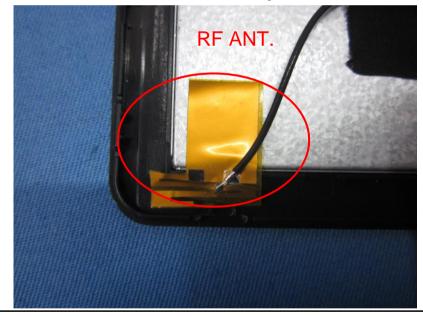
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 FPCB antenna, the best case gain of the antenna is 1.0dBi





7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207	,							
Test Method:									
	ANSI C63.4:2009								
Test Frequency Range:	150KHz to 30MHz								
Class / Severity:	Class B								
Receiver setup:	RBW=9KHz, VBW=30KHz, S	weep time=auto							
Limit:	Frequency range (MHz)								
		Quasi-peak	Average						
	0.15-0.5	66 to 56*	56 to 46*						
	0.5-5 5-30	56	46 50						
	* Decreases with the logarithm	60	50						
Test setup:	•	•							
rest setup.	Reference Plane	LISN	-						
	AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC pow							
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 50ohr termination. (Please refer to photographs).	n/50uH coupling imped	dance 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 changed according to ANSI C63.4: 2009 on conducted measurement.								
Test Instruments:	Refer to section 6.0 for details								
Test mode:	Refer to section 5.3 for details								
Test results:	Pass								

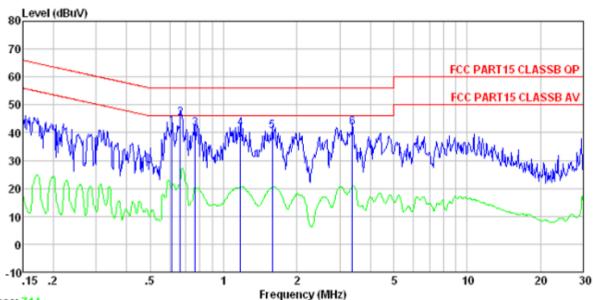
Shenzhen, China 518102

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Measurement data

Line:



Trace: 714

Site : Shielded room

: FCC PART15 CLASSB QP LISN-2013 LINE Condition

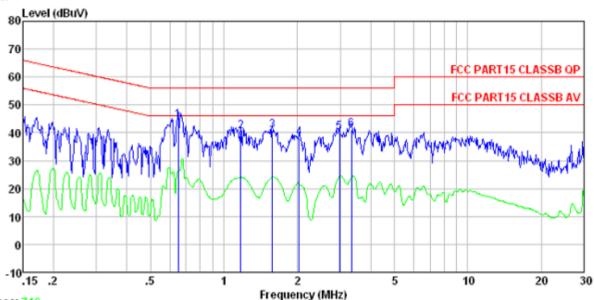
Test mode : WiFi mode

Test Engineer: Mike

	Freq	Read Level	LISN Factor	Cable Loss		Limit Line	Over Limit	Remark
	MHz	dBuV	dB	d₿	dBuV	dBuV	dB	
1 2 3 4 5 6	0.665 0.763 1.172 1.585	41.77 44.98 41.20 41.11 40.12 41.58	0.13 0.14 0.14 0.13 0.12 0.18	0.13 0.13 0.13 0.14	42.02 45.25 41.47 41.37 40.38 41.91	56.00 56.00 56.00 56.00	-13.98 -10.75 -14.53 -14.63 -15.62 -14.09	QP QP QP QP



Neutral:



Trace: 716

Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Test mode : WiFi mode

Test Engineer: Mike

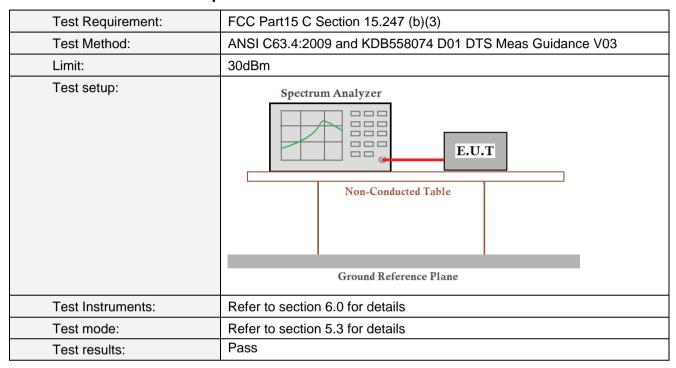
CSC	Direct.	_	LICH	0-11-		1 1-1 1	0		
	Fred	Read	Factor	Cable		Limit	Over	Remark	
	rieq	LEVEI	ractor	LUSS	Level	Line	LIMIC	I/CIRCL K	
	MHz	dBuV	dB	dB	dBuV	dBuV	dB		
1	0.651	44.11	0.07	0.13	44.31	56.00	-11.69	QP	
2	1.172		0.08		40.41				
	1.577	40.48	0.09	0.14					
4	2.033	38.02	0.09	0.15	38. 26		-17.74		
5	2.978		0.11		40.05				
6	3.328	40.75	0.13	0.15	41.03	56.00	-14.97	QP	

Notes:

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



7.3 Conducted Peak Output Power



Measurement Data

Test CH		Peak Outp	ut Power (dBm)		Limit(dBm)	Result	
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	rcoult	
Lowest	8.26	8.06	7.09	6.64			
Middle	8.52	7.93	7.11	6.02	30.00	Pass	
Highest	8.38	8.24	6.94	6.81			

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7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)					
Test Method:	ANSI C63.4:2009 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

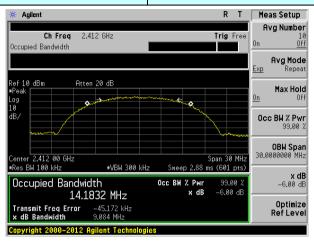
Test CH		Channel	Limit(KHz)	Result			
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(IXI IZ)	Nesuit	
Lowest	9.084	16.440	17.669	36.143			
Middle	9.896	16.409	17.660	36.136	>500	Pass	
Highest	10.189	16.421	17.649	36.075			

Test plot as follows:

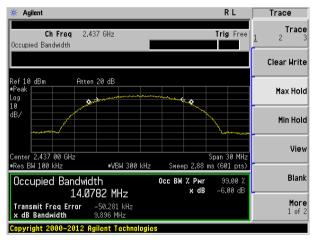
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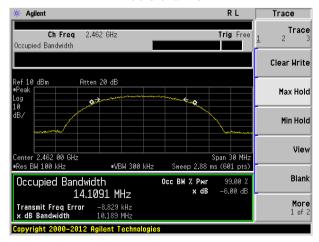
Test mode: 802.11b



Lowest channel



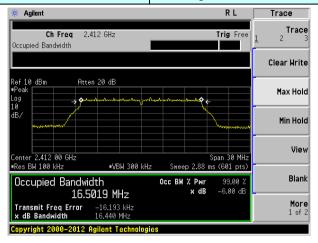
Middle channel



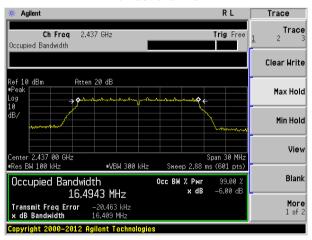
Highest channel



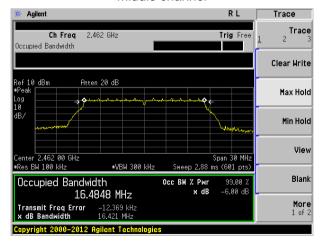
Test mode: 802.11g



Lowest channel



Middle channel

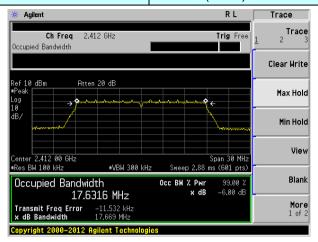


Highest channel

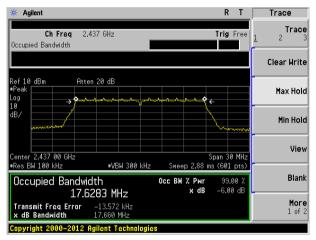
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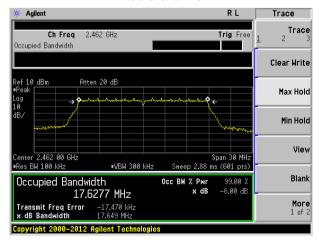
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

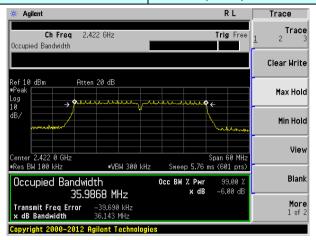


Highest channel

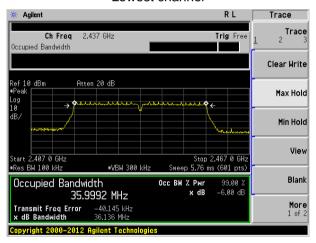
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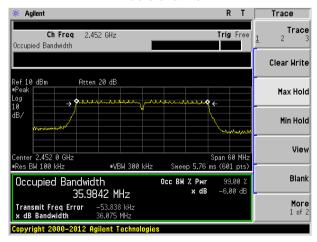
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)					
Test Method:	ANSI C63.4:2009 and KDB558074 D01 DTS Meas Guidance V03					
Limit:	3dBm					
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 S	Limit(dBm/3kHz)	Result		
rest or r	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Elitiit(dBiti/3ki i2)	Nesuit
Lowest	-3.08	-6.73	-7.53	-10.45		
Middle	-3.69	-6.38	-7.38	-10.47	8.00	Pass
Highest	-3.29	-6.12	-6.78	-9.88		

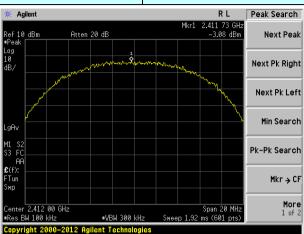
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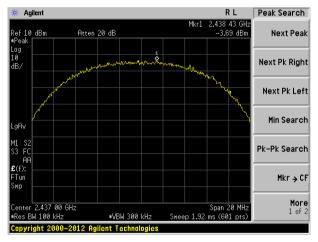


Test plot as follows:

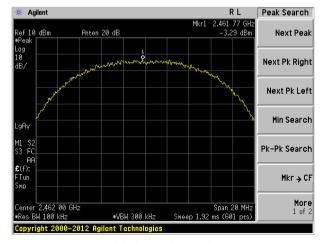
Test mode: 802.11b



Lowest channel



Middle channel

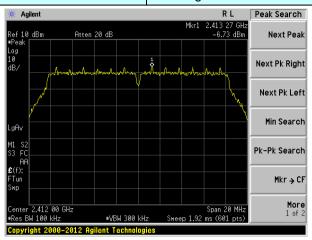


Highest channel

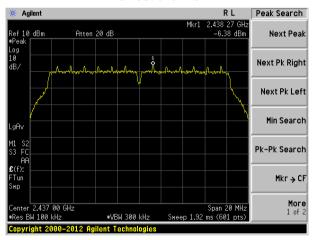
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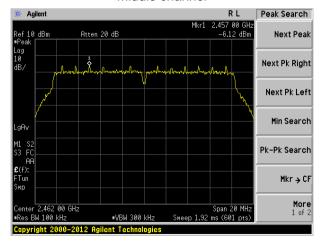
Test mode: 802.11g



Lowest channel



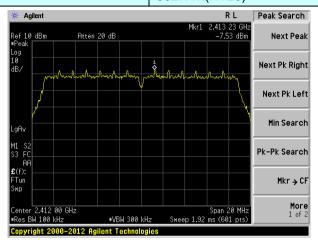
Middle channel



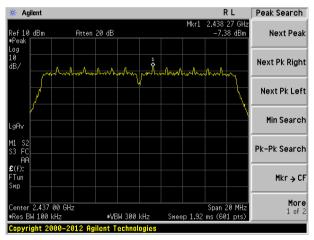
Highest channel



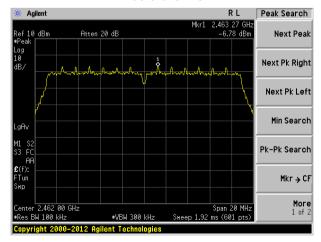
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

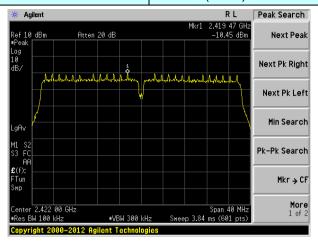


Highest channel

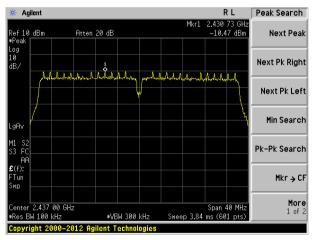
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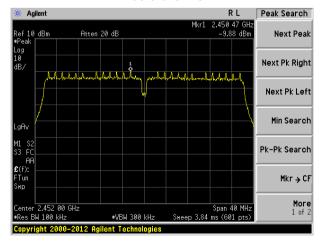
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.6 Band edges

7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.4:2009 and KDB558074 D01 DTS Meas Guidance V03					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					

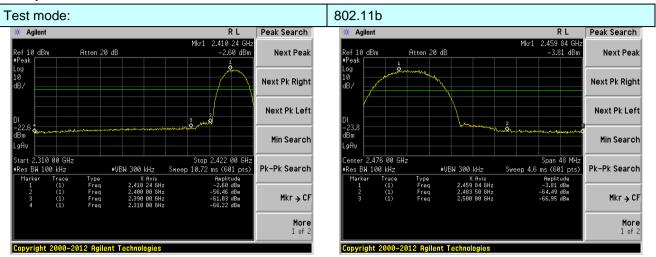
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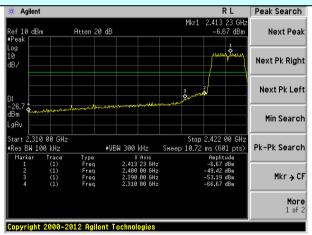
Test plot as follows:

Test mode:

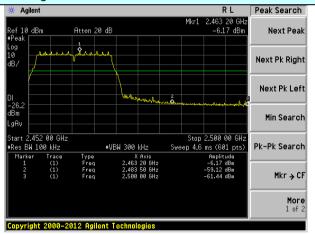


Lowest channel

802.11g



Lowest channel

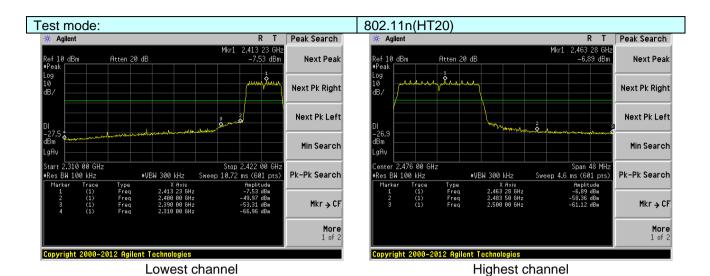


Highest channel

Highest channel

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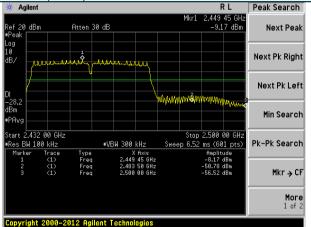












Highest channel



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205									
Test Method:	ANSI C63.4: 2009									
Test Frequency Range:			tested, only	the worst ba	ind's (2390MHz to					
	2500MHz) data									
Test site:	Measurement D	Measurement Distance: 3m Frequency Detector RBW VBW Value								
Receiver setup:	Frequency	Value								
	Above 1GHz	Peak	1MHz	3MHz	Peak					
	710070 10112	RMS 1MHz 3MHz Av								
Limit:	Freque	ency	Limit (dBuV/		Value					
	Above 1	GHz	54.0		Average					
Test setup:	7,5070	0112	74.0	0	Peak					
	EUT Turn Table	Turn 0 8m lm								
Test Procedure:	the ground a determine the 2. The EUT was antenna, whi tower. 3. The antenna ground to de horizontal an measuremer 4. For each sus and then the and the rota the maximum 5. The test-rece Specified Ba 6. If the emission the limit specified by the EUT where 10dB may peak or avers sheet. 7. The radiation And found the set.	 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 								
Test Instruments:	worst case mode is recorded in the report. Refer to section 6.0 for details									
Test mode:	Refer to section									
Test results:	Pass	J.J IOI GERAIIS	•							
10001000000	. 400									

Measurement data:

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Shenzhen, China 518102

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



Report No.: GTSE15010009901

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:	802.1	802.11b			st channel:		Lowest		
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit Line	I I imit	Polarization
2390.00	50.24	27.59	5.38	34.0	1	49.20	74.00	-24.80	Horizontal
2400.00	58.78	27.58	5.39	34.0	1	57.74	74.00	-16.26	Horizontal
2390.00	51.82	27.59	5.38	34.0	1	50.78	74.00	-23.22	Vertical
2400.00	60.20	27.58	5.39	34.0	1	59.16	74.00	-14.84	Vertical
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line	I I imit	Polarization
2390.00	37.41	27.59	5.38	34.0	1	36.37	54.00	-17.63	Horizontal
2400.00	45.55	27.58	5.39	34.0	1	44.51	54.00	-9.49	Horizontal
2390.00	39.11	27.59	5.38	34.0	1	38.07	54.00	-15.93	Vertical
2400.00	46.57	27.58	5.39	34.0	1	45.53	54.00	-8.47	Vertical
Test mode:		802.1	802.11b		Test channel:			Highest	
Peak value:	1								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line	I I imit	Polarization
2483.50	50.29	27.53	5.47	33.9	2	49.37	74.00	-24.63	Horizontal
2500.00	46.57	27.55	5.49	29.9	3	49.68	74.00	-24.32	Horizontal
2483.50	52.26	27.53	5.47	33.9	2	51.34	74.00	-22.66	Vertical
2500.00	48.82	27.55	5.49	29.9	3	51.93	74.00	-22.07	Vertical
Average va	lue:			_					

Remark:

Frequency

(MHz)

2483.50

2500.00

2483.50

2500.00

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

Cable

Loss

(dB)

5.47

5.49

5.47

5.49

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

Preamp

Factor

(dB)

33.92

29.93

33.92

29.93

Level

(dBuV/m)

36.64

37.04

38.46

38.87

Limit Line

(dBuV/m)

54.00

54.00

54.00

54.00

Global United Technology Services Co., Ltd.

Read

Level

(dBuV)

37.56

33.93

39.38

35.76

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Shenzhen, China 518102

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Antenna

Factor

(dB/m)

27.53

27.55

27.53

27.55

Project No.: GTSE150100099RF

Over

Limit

(dB)

-17.36

-16.96

-15.54

-15.13

Polarization

Horizontal

Horizontal

Vertical

Vertical



Test mode: 802.11g			1g	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
2390.00	49.29	27.59	5.38	34.01	48.25	74.00	-25.75	Horizontal
2400.00	57.51	27.58	5.39	34.01	56.47	74.00	-17.53	Horizontal
2390.00	50.81	27.59	5.38	34.01	49.77	74.00	-24.23	Vertical
2400.00	58.67	27.58	5.39	34.01	57.63	74.00	-16.37	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)	I I imit	Polarization
2390.00	36.73	27.59	5.38	34.01	35.69	54.00	-18.31	Horizontal
2400.00	44.77	27.58	5.39	34.01	43.73	54.00	-10.27	Horizontal
2390.00	38.36	27.59	5.38	34.01	37.32	54.00	-16.68	Vertical
2400.00	45.71	27.58	5.39	34.01	44.67	54.00	-9.33	Vertical
Test mode:		802.1	1g	Te	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
2483.50	48.93	27.53	5.47	33.92	48.01	74.00	-25.99	Horizontal
2500.00								
	45.52	27.55	5.49	29.93	48.63	74.00	-25.37	Horizontal
2483.50	45.52 50.71	27.55 27.53	5.49 5.47	29.93 33.92	48.63 49.79	74.00 74.00	-25.37 -24.21	Horizontal Vertical
2483.50	50.71 47.58	27.53	5.47	33.92	49.79	74.00	-24.21	Vertical
2483.50 2500.00	50.71 47.58	27.53	5.47	33.92	49.79	74.00	-24.21 -23.31 Over	Vertical
2483.50 2500.00 Average va Frequency	50.71 47.58 Iue: Read Level	27.53 27.55 Antenna Factor	5.47 5.49 Cable Loss	33.92 29.93 Preamp Factor	49.79 50.69 Level	74.00 74.00 Limit Line	-24.21 -23.31 Over Limit	Vertical Vertical
2483.50 2500.00 Average va Frequency (MHz)	50.71 47.58 lue: Read Level (dBuV)	27.53 27.55 Antenna Factor (dB/m)	5.47 5.49 Cable Loss (dB)	33.92 29.93 Preamp Factor (dB)	49.79 50.69 Level (dBuV/m)	74.00 74.00 Limit Line (dBuV/m)	-24.21 -23.31 Over Limit (dB)	Vertical Vertical Polarization
2483.50 2500.00 Average va Frequency (MHz) 2483.50	50.71 47.58 Iue: Read Level (dBuV) 36.74	27.53 27.55 Antenna Factor (dB/m) 27.53	5.47 5.49 Cable Loss (dB) 5.47	33.92 29.93 Preamp Factor (dB) 33.92	49.79 50.69 Level (dBuV/m) 35.82	74.00 74.00 Limit Line (dBuV/m) 54.00	-24.21 -23.31 Over Limit (dB) -18.18	Vertical Vertical Polarization Horizontal

Remark:

Global United Technology Services Co., Ltd.

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Shenzhen, China 518102

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

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



Test mode:

Report No.: GTSE15010009901

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	49.01	27.59	5.38	34.01	47.97	74.00	-26.03	Horizontal
2400.00	57.14	27.58	5.39	34.01	56.10	74.00	-17.90	Horizontal
2390.00	50.51	27.59	5.38	34.01	49.47	74.00	-24.53	Vertical
2400.00	58.23	27.58	5.39	34.01	57.19	74.00	-16.81	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	36.53	27.59	5.38	34.01	35.49	54.00	-18.51	Horizontal
2400.00	44.54	27.58	5.39	34.01	43.50	54.00	-10.50	Horizontal
2390.00	38.14	27.59	5.38	34.01	37.10	54.00	-16.90	Vertical
2400.00	45.47	27.58	5.39	34.01	44.43	54.00	-9.57	Vertical
Test mode:		802.1	1n(HT20)	Tes	st channel:	F	lighest	
Peak value					_			
Frequency (MHz)	Read Level	Antenna Factor	Cable Loss	Preamp		limait lima	Over	
	(dBuV)	(dB/m)	(dB)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Limit (dB)	Polarization
2483.50	(dBuV) 48.54	(dB/m) 27.53						Polarization Horizontal
2483.50 2500.00	,	, ,	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
	48.54	27.53	(dB) 5.47	(dB) 33.92	(dBuV/m) 47.62	(dBuV/m) 74.00	(dB) -26.38	Horizontal
2500.00	48.54 45.21	27.53 27.55	(dB) 5.47 5.49	(dB) 33.92 29.93	(dBuV/m) 47.62 48.32	74.00 74.00	(dB) -26.38 -25.68	Horizontal Horizontal
2500.00 2483.50	48.54 45.21 50.26 47.22	27.53 27.55 27.53	(dB) 5.47 5.49 5.47	(dB) 33.92 29.93 33.92	(dBuV/m) 47.62 48.32 49.34	74.00 74.00 74.00 74.00	(dB) -26.38 -25.68 -24.66	Horizontal Horizontal Vertical
2500.00 2483.50 2500.00	48.54 45.21 50.26 47.22	27.53 27.55 27.53	(dB) 5.47 5.49 5.47	(dB) 33.92 29.93 33.92	(dBuV/m) 47.62 48.32 49.34	74.00 74.00 74.00 74.00	(dB) -26.38 -25.68 -24.66	Horizontal Horizontal Vertical
2500.00 2483.50 2500.00 Average va Frequency	48.54 45.21 50.26 47.22 Iue: Read Level	27.53 27.55 27.53 27.55 Antenna Factor	(dB) 5.47 5.49 5.47 5.49 Cable Loss	(dB) 33.92 29.93 33.92 29.93 Preamp Factor	(dBuV/m) 47.62 48.32 49.34 50.33	74.00 74.00 74.00 74.00 Limit Line	(dB) -26.38 -25.68 -24.66 -23.67 Over Limit	Horizontal Horizontal Vertical Vertical
2500.00 2483.50 2500.00 Average va Frequency (MHz)	48.54 45.21 50.26 47.22 Iue: Read Level (dBuV)	27.53 27.55 27.53 27.55 Antenna Factor (dB/m)	(dB) 5.47 5.49 5.49 Cable Loss (dB)	(dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB)	(dBuV/m) 47.62 48.32 49.34 50.33 Level (dBuV/m)	74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	(dB) -26.38 -25.68 -24.66 -23.67 Over Limit (dB)	Horizontal Horizontal Vertical Vertical Polarization
2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50	48.54 45.21 50.26 47.22 Iue: Read Level (dBuV) 36.50	27.53 27.55 27.53 27.55 Antenna Factor (dB/m) 27.53	(dB) 5.47 5.49 5.49 Cable Loss (dB) 5.47	(dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB) 33.92	(dBuV/m) 47.62 48.32 49.34 50.33 Level (dBuV/m) 35.58	74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	(dB) -26.38 -25.68 -24.66 -23.67 Over Limit (dB) -18.42	Horizontal Horizontal Vertical Vertical Polarization Horizontal
2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50 2500.00	48.54 45.21 50.26 47.22 lue: Read Level (dBuV) 36.50 33.10	27.53 27.55 27.55 27.55 Antenna Factor (dB/m) 27.53 27.55	(dB) 5.47 5.49 5.47 5.49 Cable Loss (dB) 5.47 5.49	(dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB) 33.92 29.93	(dBuV/m) 47.62 48.32 49.34 50.33 Level (dBuV/m) 35.58 36.21	(dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00 54.00	(dB) -26.38 -25.68 -24.66 -23.67 Over Limit (dB) -18.42 -17.79	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.



Test mode:

Report No.: GTSE15010009901

Lowest

Peak value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	48.68	27.59	5.38	34.01	47.64	74.00	-26.36	Horizontal
2400.00	56.69	27.58	5.39	34.01	55.65	74.00	-18.35	Horizontal
2390.00	50.15	27.59	5.38	34.01	49.11	74.00	-24.89	Vertical
2400.00	57.69	27.58	5.39	34.01	56.65	74.00	-17.35	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	36.29	27.59	5.38	34.01	35.25	54.00	-18.75	Horizontal
2400.00	44.27	27.58	5.39	34.01	43.23	54.00	-10.77	Horizontal
2390.00	37.88	27.59	5.38	34.01	36.84	54.00	-17.16	Vertical
2400.00	45.16	27.58	5.39	34.01	44.12	54.00	-9.88	Vertical
Test mode:		802.1	1n(HT40)	Tes	st channel:		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
Frequency	Read Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Polarization Horizontal
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	
Frequency (MHz) 2483.50	Read Level (dBuV) 48.06	Factor (dB/m) 27.53	Cable Loss (dB) 5.47	Preamp Factor (dB) 33.92	Level (dBuV/m) 47.14	Limit Line (dBuV/m) 74.00	Over Limit (dB)	Horizontal
Frequency (MHz) 2483.50 2500.00	Read Level (dBuV) 48.06 44.84	Factor (dB/m) 27.53 27.55	Cable Loss (dB) 5.47 5.49	Preamp Factor (dB) 33.92 29.93	Level (dBuV/m) 47.14 47.95	Limit Line (dBuV/m) 74.00 74.00	Over Limit (dB) -26.86 -26.05	Horizontal Horizontal
Frequency (MHz) 2483.50 2500.00 2483.50	Read Level (dBuV) 48.06 44.84 49.71 46.79	Factor (dB/m) 27.53 27.55 27.53	Cable Loss (dB) 5.47 5.49 5.47	Preamp Factor (dB) 33.92 29.93 33.92	Level (dBuV/m) 47.14 47.95 48.79	Limit Line (dBuV/m) 74.00 74.00 74.00	Over Limit (dB) -26.86 -26.05 -25.21	Horizontal Horizontal Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00	Read Level (dBuV) 48.06 44.84 49.71 46.79	Factor (dB/m) 27.53 27.55 27.53	Cable Loss (dB) 5.47 5.49 5.47	Preamp Factor (dB) 33.92 29.93 33.92	Level (dBuV/m) 47.14 47.95 48.79	Limit Line (dBuV/m) 74.00 74.00 74.00	Over Limit (dB) -26.86 -26.05 -25.21	Horizontal Horizontal Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va	Read Level (dBuV) 48.06 44.84 49.71 46.79 Iue:	Factor (dB/m) 27.53 27.55 27.53 27.55 Antenna Factor	Cable Loss (dB) 5.47 5.49 5.47 5.49 Cable Loss	Preamp Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor	Level (dBuV/m) 47.14 47.95 48.79 49.90	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Contract the contract of the contr	Over Limit (dB) -26.86 -26.05 -25.21 -24.10 Over Limit	Horizontal Horizontal Vertical Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz)	Read Level (dBuV) 48.06 44.84 49.71 46.79 Iue: Read Level (dBuV)	Factor (dB/m) 27.53 27.55 27.55 27.55 Antenna Factor (dB/m)	Cable Loss (dB) 5.47 5.49 5.47 Cable Loss (dB)	Preamp Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB)	Level (dBuV/m) 47.14 47.95 48.79 49.90 Level (dBuV/m)	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	Over Limit (dB) -26.86 -26.05 -25.21 -24.10 Over Limit (dB)	Horizontal Horizontal Vertical Vertical Polarization
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50	Read Level (dBuV) 48.06 44.84 49.71 46.79 Iue: Read Level (dBuV)	Factor (dB/m) 27.53 27.55 27.55 27.55 Antenna Factor (dB/m) 27.53	Cable Loss (dB) 5.47 5.49 5.47 Cable Loss (dB) 5.47	Preamp Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB) 33.92	Level (dBuV/m) 47.14 47.95 48.79 49.90 Level (dBuV/m)	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	Over Limit (dB) -26.86 -26.05 -25.21 -24.10 Over Limit (dB) -18.71	Horizontal Horizontal Vertical Vertical Polarization Horizontal
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average value (MHz) 2483.50 2500.00	Read Level (dBuV) 48.06 44.84 49.71 46.79 Iue: Read Level (dBuV) 36.21 32.88	Factor (dB/m) 27.53 27.55 27.55 27.55 Antenna Factor (dB/m) 27.53 27.55	Cable Loss (dB) 5.47 5.49 Cable Loss (dB) 5.47 5.49	Preamp Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB) 33.92 29.93	Level (dBuV/m) 47.14 47.95 48.79 49.90 Level (dBuV/m) 35.29 35.99	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Cimit Line (dBuV/m) 54.00 54.00	Over Limit (dB) -26.86 -26.05 -25.21 -24.10 Over Limit (dB) -18.71 -18.01	Horizontal Horizontal Vertical Vertical Polarization Horizontal Horizontal

Test channel:

802.11n(HT40)

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Shenzhen, China 518102

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

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



7.7 Spurious Emission

7.7.1 Conducted Emission Method

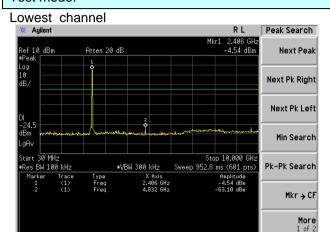
Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.4:2009 and KDB558074 D01 DTS Meas Guidance V03				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				



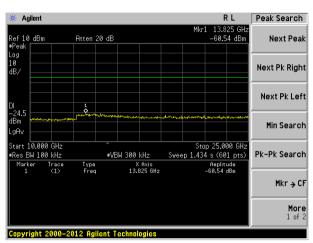
Test plot as follows:

Test mode:

802.11b



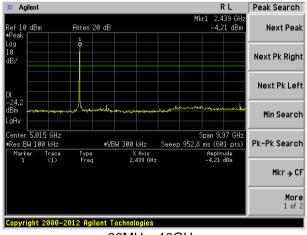
30MHz~10GHz



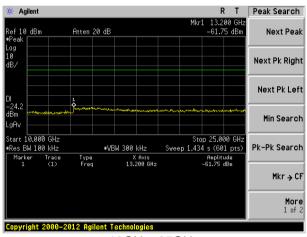
10GHz~25GHz



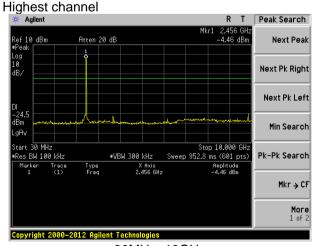
Copyright 2000-2012 Agilent Technologies



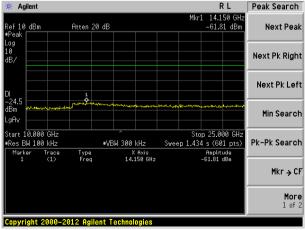
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



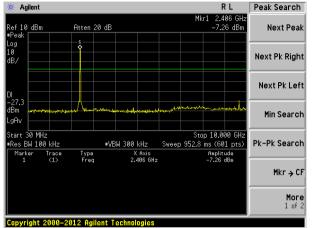
10GHz~25GHz



Test mode:

802.11g



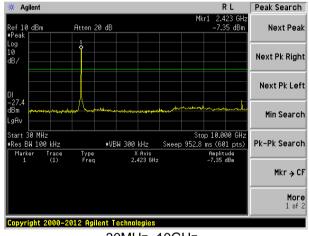


30MHz~10GHz

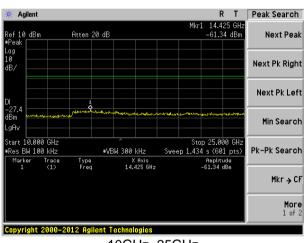
Peak Search * Agilent Ref 10 dBm Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search gAv Start 10.000 GHz •Res BW 100 kHz Stop 25.000 GH Sweep 1.434 s (601 pts) . VBW 300 kHz Pk-Pk Search X fixis 14.125 GHz Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

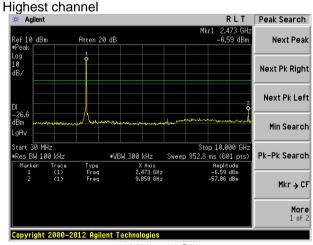
Middle channel



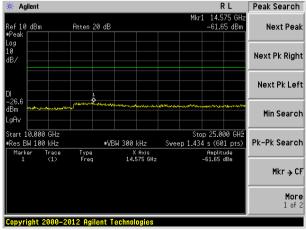
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



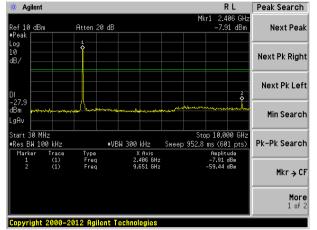
10GHz~25GHz



Test mode:

802.11n(HT20)

Lowest channel



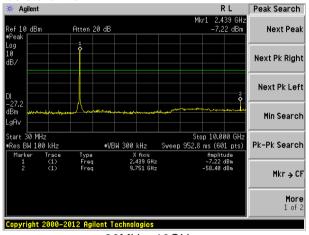
30MHz~10GHz

RL Peak Search 🔆 Agilent 14.450 GH -61.93 dBm Next Peak Atten 20 dB Next Pk Right Next Pk Left Min Search Center 17.500 GHz •Res BW 100 kHz ^ Span 15 GHz Sweep 1.434 s (601 pts) Pk-Pk Search #VBW 300 kHz Amplitude -61.93 dBm X Axis 14.450 GHz Mkr → CF More 1 of 2

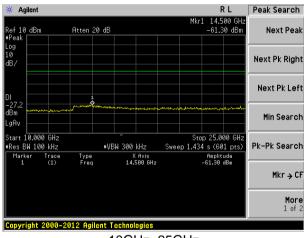
10GHz~25GHz

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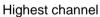
Middle channel

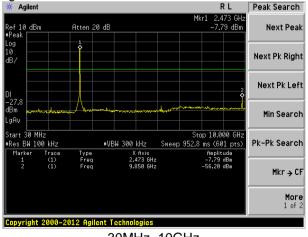


30MHz~10GHz

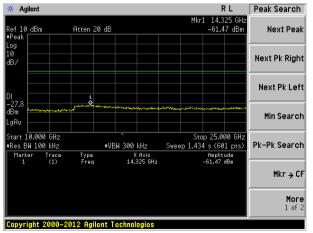


10GHz~25GHz





30MHz~10GHz



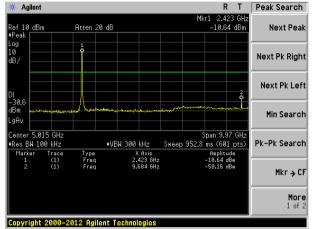
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

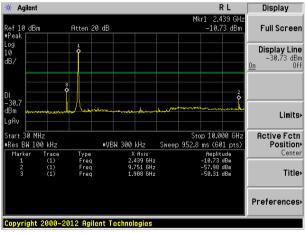


30MHz~10GHz

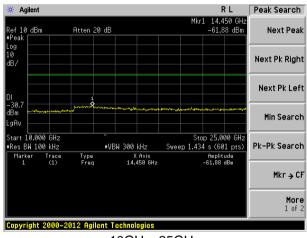
* Agilent Peak Search 14.375 GHz -61.32 dBm Atten 20 dB Next Peak ef 10 dBm Next Pk Right Next Pk Left Min Search Start 10.000 GHz •Res BW 100 kHz "Stop 25.000 GH: Sweep 1.434 s (601 pts) Pk-Pk Search #VBW 300 kHz Type Frea Amplitude -61.32 dBm X Axis 14.375 GHz Mkr → CF Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

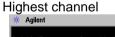
Middle channel

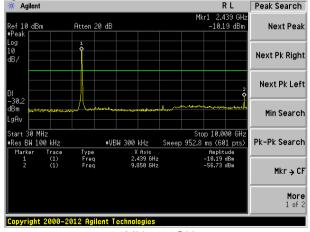


30MHz~10GHz

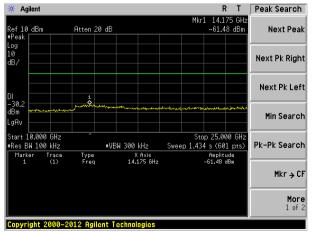


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Took Mothod	FCC Part15 C Se	ection 15.209								
Test Method:	ANSI C63.4: 200	9								
Test Frequency Range:	30MHz to 25GHz	30MHz to 25GHz Measurement Distance: 3m								
Test site:	Measurement Dis	stance: 3m								
Receiver setup:	Frequency									
	30MHz-1GHz	Poak 1MHz 3MHz								
	Above 1GHz	RMS 1MHz 3MHz Aver								
	710070 10112	RMS	1MHz	3MHz	Average					
Limit:	Frequen	су	Limit (dBuV	/m @3m)	Value					
	30MHz-88	MHz	40.0	0	Quasi-peak					
	88MHz-216	6MHz	43.5	0	Quasi-peak					
	216MHz-96	0MHz	46.0	0	Quasi-peak					
	960MHz-1	GHz	54.0	0	Quasi-peak					
	Above 46	`U-	54.0	0	Average					
	Above 10	ΣΠ Ζ	74.0	0	Peak					
	Antenna Antenna RF Test Receiver Turn Table A A									
		lm		Receiver						
	Table 0.8m	lm		Receiver						
	Ground Plane	, , , , , , , , , , , , , , , , , , ,	Hor Spec	Receiver						

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Shenzhen, China 518102



	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.
	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, quasi- peak 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
41.57	45.94	15.57	0.68	30.04	32.15	40.00	-7.85	Vertical
53.51	47.03	15.08	0.80	29.97	32.94	40.00	-7.06	Vertical
175.65	55.45	11.36	1.72	29.30	39.23	43.50	-4.27	Vertical
199.29	52.01	12.57	1.84	29.20	37.22	43.50	-6.28	Vertical
506.48	40.46	18.74	3.33	29.30	33.23	46.00	-12.77	Vertical
968.93	40.98	23.55	5.11	29.10	40.54	54.00	-13.46	Vertical
74.66	50.47	9.80	0.98	29.83	31.42	40.00	-8.58	Horizontal
124.57	49.04	11.80	1.40	29.54	32.70	43.50	-10.80	Horizontal
175.65	54.46	11.36	1.72	29.30	38.24	43.50	-5.26	Horizontal
196.51	52.10	12.57	1.82	29.21	37.28	43.50	-6.22	Horizontal
468.88	39.26	17.83	3.18	29.36	30.91	46.00	-15.09	Horizontal
742.26	39.26	21.34	4.24	29.20	35.64	46.00	-10.36	Horizontal

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■ Above 1GHz

Test mode:		802.11b		Test	channel:	Lowe	est	
Peak value:		T	ı	1	ı		ı	
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	39.13	31.79	8.62	32.10	47.44	74.00	-26.56	Vertical
7236.00	33.48	36.19	11.68	31.97	49.38	74.00	-24.62	Vertical
9648.00	32.19	38.07	14.16	31.56	52.86	74.00	-21.14	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	37.98	31.79	8.62	32.10	46.29	74.00	-27.71	Horizontal
7236.00	33.33	36.19	11.68	31.97	49.23	74.00	-24.77	Horizontal
9648.00	31.81	38.07	14.16	31.56	52.48	74.00	-21.52	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val							T	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	28.31	31.79	8.62	32.10	36.62	54.00	-17.38	Vertical
7236.00	22.38	36.19	11.68	31.97	38.28	54.00	-15.72	Vertical
9648.00	22.56	38.07	14.16	31.56	43.23	54.00	-10.77	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.58	31.79	8.62	32.10	35.89	54.00	-18.11	Horizontal
7236.00	21.93	36.19	11.68	31.97	37.83	54.00	-16.17	Horizontal
9648.00	21.57	38.07	14.16	31.56	42.24	54.00	-11.76	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:	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	38.39	31.85	8.66	32.12	46.78	74.00	-27.22	Vertical
7311.00	33.68	36.37	11.71	31.91	49.85	74.00	-24.15	Vertical
9748.00	33.30	38.27	14.25	31.56	54.26	74.00	-19.74	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.02	31.85	8.66	32.12	47.41	74.00	-26.59	Horizontal
7311.00	32.40	36.37	11.71	31.91	48.57	74.00	-25.43	Horizontal
9748.00	33.22	38.27	14.25	31.56	54.18	74.00	-19.82	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	29.32	31.85	8.66	32.12	37.71	54.00	-16.29	Vertical
7311.00	22.02	36.37	11.71	31.91	38.19	54.00	-15.81	Vertical
9748.00	22.57	38.27	14.25	31.56	43.53	54.00	-10.47	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.18	31.85	8.66	32.12	37.57	54.00	-16.43	Horizontal
7311.00	21.50	36.37	11.71	31.91	37.67	54.00	-16.33	Horizontal
9748.00	22.95	38.27	14.25	31.56	43.91	54.00	-10.09	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*	_				54.00		Horizontal

Remark:

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

^{2. &}quot; \ast ", 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)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	43.23	31.90	8.70	32.15	51.68	74.00	-22.32	Vertical
7386.00	33.92	36.49	11.76	31.83	50.34	74.00	-23.66	Vertical
9848.00	36.28	38.62	14.31	31.77	57.44	74.00	-16.56	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	42.79	31.90	8.70	32.15	51.24	74.00	-22.76	Horizontal
7386.00	32.95	36.49	11.76	31.83	49.37	74.00	-24.63	Horizontal
9848.00	32.51	38.62	14.31	31.77	53.67	74.00	-20.33	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	34.27	31.90	8.70	32.15	42.72	54.00	-11.28	Vertical
7386.00	23.87	36.49	11.76	31.83	40.29	54.00	-13.71	Vertical
9848.00	24.81	38.62	14.31	31.77	45.97	54.00	-8.03	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.24	31.90	8.70	32.15	41.69	54.00	-12.31	Horizontal
7386.00	22.37	36.49	11.76	31.83	38.79	54.00	-15.21	Horizontal
9848.00	21.79	38.62	14.31	31.77	42.95	54.00	-11.05	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; \ast ", 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	37.62	31.79	8.62	32.10	45.93	74.00	-28.07	Vertical
7236.00	32.53	36.19	11.68	31.97	48.43	74.00	-25.57	Vertical
9648.00	31.51	38.07	14.16	31.56	52.18	74.00	-21.82	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	36.71	31.79	8.62	32.10	45.02	74.00	-28.98	Horizontal
7236.00	32.49	36.19	11.68	31.97	48.39	74.00	-25.61	Horizontal
9648.00	31.18	38.07	14.16	31.56	51.85	74.00	-22.15	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	26.91	31.79	8.62	32.10	35.22	54.00	-18.78	Vertical
7236.00	21.45	36.19	11.68	31.97	37.35	54.00	-16.65	Vertical
9648.00	21.90	38.07	14.16	31.56	42.57	54.00	-11.43	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	26.38	31.79	8.62	32.10	34.69	54.00	-19.31	Horizontal
7236.00	21.12	36.19	11.68	31.97	37.02	54.00	-16.98	Horizontal
9648.00	20.97	38.07	14.16	31.56	41.64	54.00	-12.36	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11g		Test	channel:	Midd	le	
Peak value:		•				'		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	37.14	31.85	8.66	32.12	45.53	74.00	-28.47	Vertical
7311.00	32.89	36.37	11.71	31.91	49.06	74.00	-24.94	Vertical
9748.00	32.73	38.27	14.25	31.56	53.69	74.00	-20.31	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	37.96	31.85	8.66	32.12	46.35	74.00	-27.65	Horizontal
7311.00	31.71	36.37	11.71	31.91	47.88	74.00	-26.12	Horizontal
9748.00	32.70	38.27	14.25	31.56	53.66	74.00	-20.34	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average value	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	28.16	31.85	8.66	32.12	36.55	54.00	-17.45	Vertical
7311.00	21.26	36.37	11.71	31.91	37.43	54.00	-16.57	Vertical
9748.00	22.03	38.27	14.25	31.56	42.99	54.00	-11.01	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	28.19	31.85	8.66	32.12	36.58	54.00	-17.42	Horizontal
7311.00	20.83	36.37	11.71	31.91	37.00	54.00	-17.00	Horizontal
9748.00	22.45	38.27	14.25	31.56	43.41	54.00	-10.59	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*	_				54.00		Horizontal

Remark:

Shenzhen, China 518102

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

^{2. &}quot; \ast ", 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	41.07	31.90	8.70	32.15	49.52	74.00	-24.48	Vertical
7386.00	32.55	36.49	11.76	31.83	48.97	74.00	-25.03	Vertical
9848.00	35.31	38.62	14.31	31.77	56.47	74.00	-17.53	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	40.97	31.90	8.70	32.15	49.42	74.00	-24.58	Horizontal
7386.00	31.76	36.49	11.76	31.83	48.18	74.00	-25.82	Horizontal
9848.00	31.61	38.62	14.31	31.77	52.77	74.00	-21.23	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	32.28	31.90	8.70	32.15	40.73	54.00	-13.27	Vertical
7386.00	22.55	36.49	11.76	31.83	38.97	54.00	-15.03	Vertical
9848.00	23.88	38.62	14.31	31.77	45.04	54.00	-8.96	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	31.53	31.90	8.70	32.15	39.98	54.00	-14.02	Horizontal
7386.00	21.21	36.49	11.76	31.83	37.63	54.00	-16.37	Horizontal
9848.00	20.93	38.62	14.31	31.77	42.09	54.00	-11.91	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)	Tes	t channel:	Lowe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	38.31	31.79	8.62	32.10	46.62	74.00	-27.38	Vertical
7236.00	32.97	36.19	11.68	31.97	48.87	74.00	-25.13	Vertical
9648.00	31.82	38.07	14.16	31.56	52.49	74.00	-21.51	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	37.29	31.79	8.62	32.10	45.60	74.00	-28.40	Horizontal
7236.00	32.87	36.19	11.68	31.97	48.77	74.00	-25.23	Horizontal
9648.00	31.47	38.07	14.16	31.56	52.14	74.00	-21.86	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	27.55	31.79	8.62	32.10	35.86	54.00	-18.14	Vertical
7236.00	21.88	36.19	11.68	31.97	37.78	54.00	-16.22	Vertical
9648.00	22.20	38.07	14.16	31.56	42.87	54.00	-11.13	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	26.93	31.79	8.62	32.10	35.24	54.00	-18.76	Horizontal
7236.00	21.49	36.19	11.68	31.97	37.39	54.00	-16.61	Horizontal
9648.00	21.24	38.07	14.16	31.56	41.91	54.00	-12.09	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:	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	37.71	31.85	8.66	32.12	46.10	74.00	-27.90	Vertical
7311.00	33.25	36.37	11.71	31.91	49.42	74.00	-24.58	Vertical
9748.00	32.99	38.27	14.25	31.56	53.95	74.00	-20.05	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	38.45	31.85	8.66	32.12	46.84	74.00	-27.16	Horizontal
7311.00	32.02	36.37	11.71	31.91	48.19	74.00	-25.81	Horizontal
9748.00	32.94	38.27	14.25	31.56	53.90	74.00	-20.10	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	28.69	31.85	8.66	32.12	37.08	54.00	-16.92	Vertical
7311.00	21.61	36.37	11.71	31.91	37.78	54.00	-16.22	Vertical
9748.00	22.28	38.27	14.25	31.56	43.24	54.00	-10.76	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	28.64	31.85	8.66	32.12	37.03	54.00	-16.97	Horizontal
7311.00	21.14	36.37	11.71	31.91	37.31	54.00	-16.69	Horizontal
9748.00	22.68	38.27	14.25	31.56	43.64	54.00	-10.36	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:	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	42.06	31.90	8.70	32.15	50.51	74.00	-23.49	Vertical
7386.00	33.18	36.49	11.76	31.83	49.60	74.00	-24.40	Vertical
9848.00	35.75	38.62	14.31	31.77	56.91	74.00	-17.09	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	41.80	31.90	8.70	32.15	50.25	74.00	-23.75	Horizontal
7386.00	32.30	36.49	11.76	31.83	48.72	74.00	-25.28	Horizontal
9848.00	32.02	38.62	14.31	31.77	53.18	74.00	-20.82	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	33.19	31.90	8.70	32.15	41.64	54.00	-12.36	Vertical
7386.00	23.16	36.49	11.76	31.83	39.58	54.00	-14.42	Vertical
9848.00	24.31	38.62	14.31	31.77	45.47	54.00	-8.53	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	32.31	31.90	8.70	32.15	40.76	54.00	-13.24	Horizontal
7386.00	21.74	36.49	11.76	31.83	38.16	54.00	-15.84	Horizontal
9848.00	21.32	38.62	14.31	31.77	42.48	54.00	-11.52	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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



Test mode:		802.11n(H	802.11n(HT40)			channel:		Lowe	est	
Peak value:		<u>'</u>								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor IB)	Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4844.00	36.78	31.81	8.63	32.11		45.11	74.00		-28.89	Vertical
7266.00	31.99	36.28	11.69	31.94		48.02	74.00		-25.98	Vertical
9688.00	31.12	38.13	14.21	31.52		51.94	74.00		-22.06	Vertical
12060.00	*						74.00			Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	35.99	31.81	8.63	32.11		44.32	74.	00	-29.68	Horizontal
7266.00	32.02	36.28	11.69	31.94		48.05	74.	00	-25.95	Horizontal
9688.00	30.82	38.13	14.21	31	.52	51.64	74.	00	-22.36	Horizontal
12060.00	*				_		74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal
Average val	ue:									

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	26.14	31.81	8.63	32.11	34.47	54.00	-19.53	Vertical
7266.00	20.94	36.28	11.69	31.94	36.97	54.00	-17.03	Vertical
9688.00	21.53	38.13	14.21	31.52	42.35	54.00	-11.65	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	25.71	31.81	8.63	32.11	34.04	54.00	-19.96	Horizontal
7266.00	20.66	36.28	11.69	31.94	36.69	54.00	-17.31	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
- "*", means this data is the too weak instrument of signal is unable to test.

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Test mode:		802.11n(HT40)			Test channel:			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	36.44	31.85	8.66	32.12		44.83	74.	00	-29.17	Vertical
7311.00	32.45	36.37	11.71	31.91		48.62	74.00		-25.38	Vertical
9748.00	32.42	38.27	14.25	31.56		53.38	74.00		-20.62	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	37.37	31.85	8.66	32.12		45.76	74.00		-28.24	Horizontal
7311.00	31.32	36.37	11.71	31.91		47.49	74.00		-26.51	Horizontal
9748.00	32.41	38.27	14.25	31.56		53.37	74.00		-20.63	Horizontal
12185.00	*						74.00			Horizontal
14622.00	*						74.	00		Horizontal
17059.00	*						74.	00		Horizontal
Average val	ue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	eamp ictor dB)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4874.00	27.52	31.85	8.66	32	2.12	35.91	54.	00	-18.09	Vertical
7311.00	20.83	36.37	11.71	31	.91	37.00	54.	00	-17.00	Vertical
9748.00	21.72	38.27	14.25	31	.56	42.68	54.	00	-11.32	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	27.64	31.85	8.66	32	2.12	36.03	54.	00	-17.97	Horizontal
7311.00	20.46	36.37	11.71	31	.91	36.63	54.	00	-17.37	Horizontal
9748.00	22.17	38.27	14.25	31	.56	43.13	54.	00	-10.87	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*						54.	00		Horizontal

Remark:

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

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Test mode:		802.11n(H	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	39.86	31.88	8.68	32.13	48.29	74.00	-25.71	Vertical			
7356.00	31.79	36.45	11.75	31.86	48.13	74.00	-25.87	Vertical			
9808.00	34.76	38.43	14.29	31.68	55.80	74.00	-18.20	Vertical			
12310.00	*					74.00		Vertical			
14772.00	*					74.00		Vertical			
17234.00	*					74.00		Vertical			
4904.00	39.95	31.88	8.68	32.13	48.38	74.00	-25.62	Horizontal			
7356.00	31.09	36.45	11.75	31.86	47.43	74.00	-26.57	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	Average value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4904.00	31.17	31.88	8.68	32.13	39.60	54.00	-14.40	Vertical			
7356.00	21.82	36.45	11.75	31.86	38.16	54.00	-15.84	Vertical			
9808.00	23.35	38.43	14.29	31.68	44.39	54.00	-9.61	Vertical			
12310.00	*					54.00		Vertical			
14772.00	*					54.00		Vertical			
17234.00	*					54.00		Vertical			
4904.00	30.58	31.88	8.68	32.13	39.01	54.00	-14.99	Horizontal			
7356.00	20.57	36.45	11.75	31.86	36.91	54.00	-17.09	Horizontal			
9808.00	20.44	38.43	14.29	31.68	41.48	54.00	-12.52	Horizontal			
12310.00	*					54.00		Horizontal			
14772.00	*					54.00		Horizontal			
17234.00	*					54.00		Horizontal			

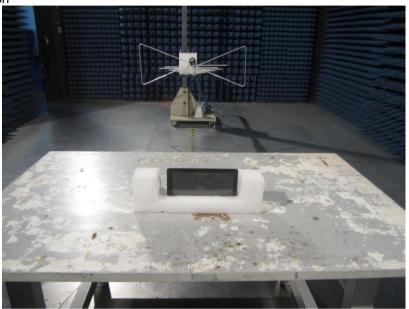
Remark:

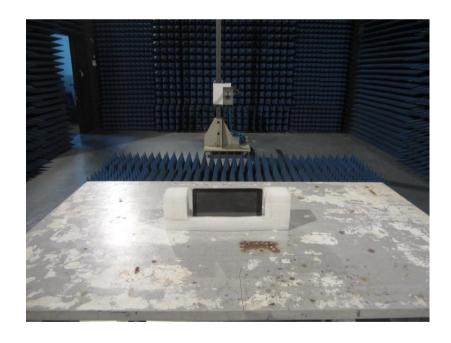
Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor "*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







Conducted Emission





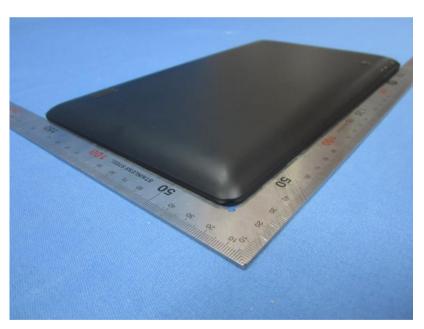
9 EUT Constructional Details











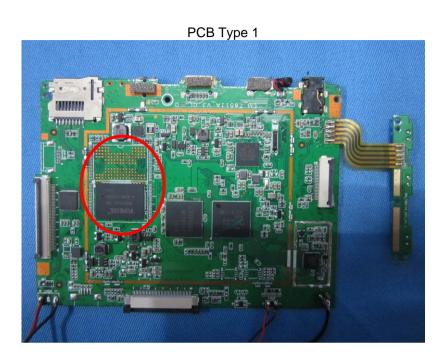
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

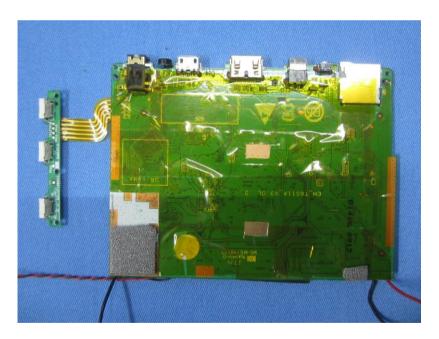




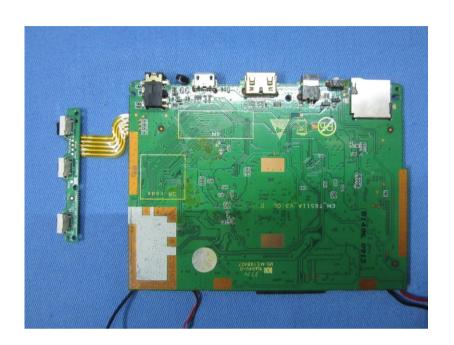




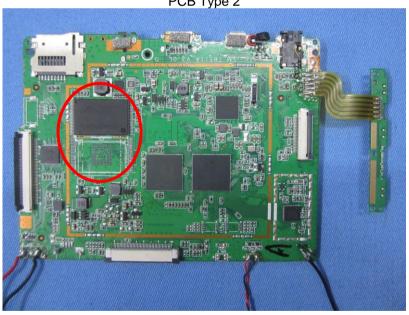








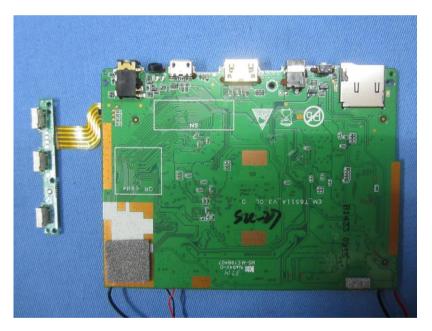




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