

Global United Technology Services Co., Ltd.

Report No.: GTSE13120195301

FCC REPORT

Applicant: Shenzhen TongFang Information Technologies CO.,LTD

Address of Applicant: Floor3, Building D, TongFang Information Harbour, LangShan

Road, NanShan, Shenzhen, China

Equipment Under Test (EUT)

Product Name: Smart POS

Model No.: B9S2, B9S*, A9S*(* stand for:0-9)

FCC ID: 2ABKZ-GC791903

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2012

Date of sample receipt: December 12, 2013

Date of Test: December 12-17, 2013

Date of report issued: December 17, 2013

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.



Version 2

Version No.	Date	Description
00	December 17, 2013	Original

Prepared By:	hank. yan.	Date:	December 17, 2013	
	Project Engineer			
Check By:	Homs. Hu	Date:	December 17, 2013	
	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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General Information 5

5.1 Client Information

Applicant:	Shenzhen TongFang Information Technologies CO.,LTD
Address of Applicant:	Floor3, Building D, TongFang Information Harbour, LangShan Road, NanShan, Shenzhen, China
Manufacturer:	Shenzhen TongFang Information Technologies CO.,LTD
Address of Manufacturer:	Floor3, Building D, TongFang Information Harbour, LangShan Road, NanShan, Shenzhen, China

5.2 General Description of EUT

Product Name:	Smart POS
Model No.:	B9S2, B9S*, A9S*(* stand for:0-9)
Operation Frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz
	802.11n(HT40): 2422MHz~2452MHz
Channel numbers:	802.11b/802.11g /802.11n(HT20): 11
	802.11(HT40): 7
Channel separation:	5MHz
Modulation technology:	802.11b: Direct Sequence Spread Spectrum (DSSS)
	802.11g/802.11n(H20)/802.11n(H40):
	Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	Integral Antenna
Antenna gain:	2.00dBi (declare by Applicant)
Power supply:	Model No.: FEF0500200A1BU
	Input: AC 100-240V, 50/60Hz, 0.3A
	Output: DC 5.0V, 2A
	DC 3.7V Li-ion Battery

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Operation Frequency each of channel								
Channel Frequency Channel Frequency Channel Frequency Channel Frequency								
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz	
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz	
3	2422MHz	6	2437MHz	9	2452MHz			

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

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

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
-------------------	--

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

5.4 Description of Support Units

None.

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

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5.5 Test Facility

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

• CNAS —Registration No.: CNAS L5775

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

• FCC —Registration No.: 600491

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



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	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 29 2013	Mar. 28 2014		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Dec. 5, 2013	Dec. 4 2014		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 02 2013	Jul. 01 2014		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 24 2013	Feb. 23 2014		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 28 2013	June 27 2014		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 29 2013	Mar. 28 2014		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 30 2013	Mar. 29 2014		
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 30 2013	Mar. 29 2014		
11	Coaxial cable	GTS	N/A	GTS210	Mar. 30 2013	Mar. 29 2014		
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 30 2013	Mar. 29 2014		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 02 2013	Jul. 01 2014		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 02 2013	Jul. 01 2014		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 28 2013	June 27 2014		
16	Band filter	Amindeon	82346	GTS219	Mar. 30 2013	Mar. 29 2014		

Con	Conducted Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 07 2013	Sep. 06 2015		
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 02 2013	Jul. 01 2014		
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 02 2013	Jul. 01 2014		
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jul. 02 2013	Jul. 01 2014		
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 02 2013	Jul. 01 2014		
6	Coaxial Cable	GTS	N/A	GTS227	Jul. 02 2013	Jul. 01 2014		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		

Gen	General used equipment:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Barometer	ChangChun	DYM3	GTS257	July 09 2013	July 08 2014			



7 Test results and Measurement Data

7.1 Antenna requirement:

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

15.203 requirement:

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

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

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

E.U.T Antenna:

The antenna is Integral antenna, the best case gain of the antenna is 2.0dBi





7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207	,					
Test Method:	ANSI C63.4:2003						
Test Frequency Range:	150KHz to 30MHz	150KHz to 30MHz					
Class / Severity:	Class B						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto					
Limit:	<u> </u>	Limit (c	IBuV)				
Ellilli.	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 Filter AC power Equipment E.U.T EMI Receiver 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						

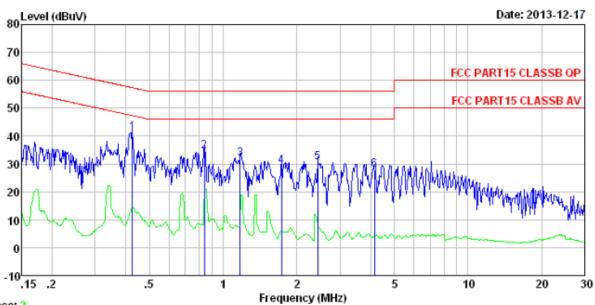
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Measurement data

Line:



Trace: 2

Condition : FCC PART15 CLASSB QP LISN-2013 LINE

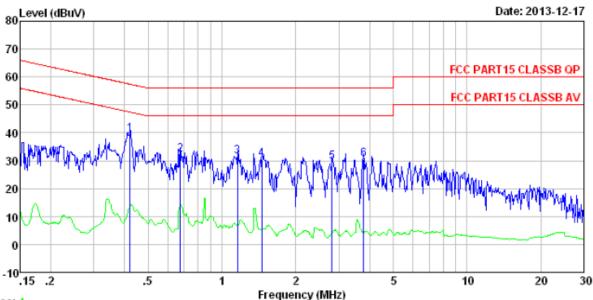
Job No. : 1953RF Test mode : WiFi mode Test Engineer: Bing

CSC	Freq	Read	LISN Factor			Limit Line	Over Limit	Remark	
	MHz	dBuV	dB	dB	dBuV	dBu₹	dB		
1 2 3 4 5 6	1.172 1.734 2.435	31.67 28.89 30.25	0.13 0.12 0.13	0.13 0.14	34.50 31.93 29.15 30.53	56.00 56.00 56.00 56.00	-21.50 -24.07 -26.85 -25.47	QP QP QP QP	

Shenzhen, China 518102



Neutral:



Trace: 4

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 1953RF Test mode : WiFi mode Test Engineer: Bing

	Freq		LISN Factor					Remark
	MHz	dBu₹	dB	dB	dBuV	dBuV	dB	
1 2 3 4 5 6	0. 675 1. 160 1. 456 2. 809	31.33 30.41	0.07 0.08 0.09 0.11	0.13 0.13	32. 34 31. 54 30. 63 29. 57	56.00 56.00 56.00 56.00	-23.66 -24.46 -25.37 -26.43	QP QP QP QP

Notes:

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



7.3 Conducted Peak Output Power

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

Measurement Data

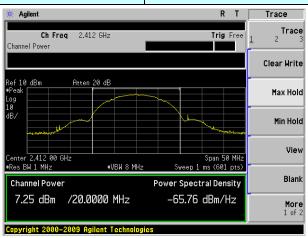
Test CH		Limit(dBm)	Result				
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesuit	
Lowest	7.25	7.18	7.12	6.89		Pass	
Middle	7.16	7.15	7.11	6.91	30.00		
Highest	7.19	7.12	7.12	6.84			

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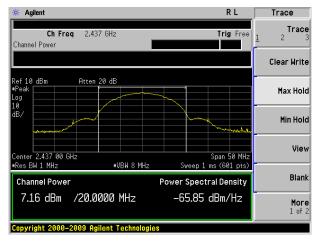


Test plot as follows:

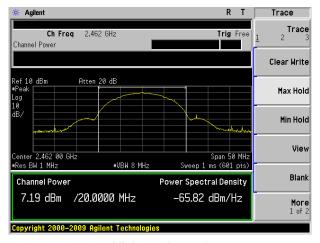
Test mode: 802.11b



Lowest channel



Middle channel

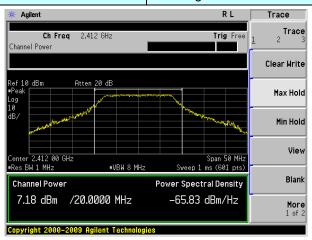


Highest channel

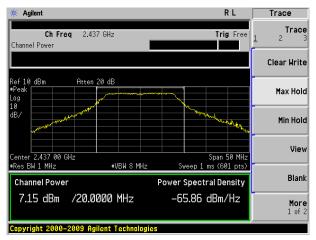
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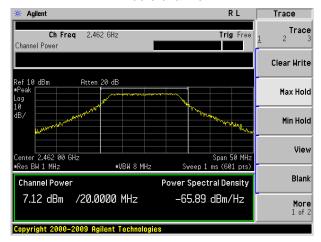
Test mode: 802.11g



Lowest channel



Middle channel



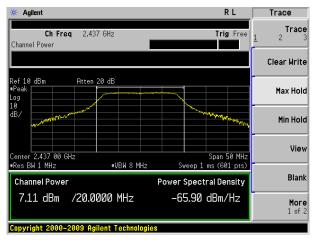
Highest channel



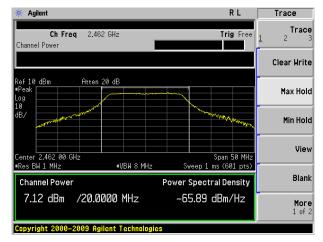
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

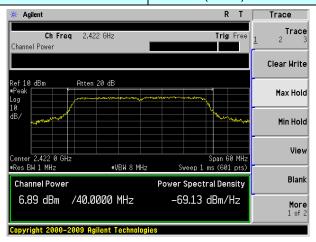


Highest channel

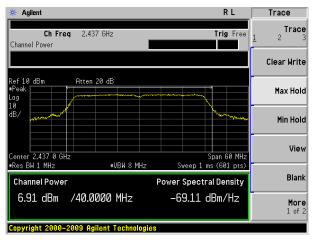
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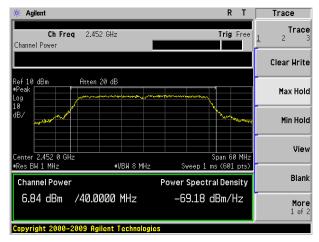
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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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		

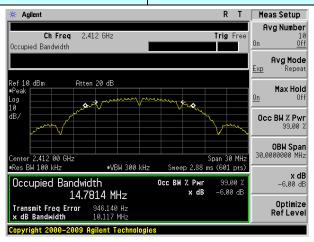
Measurement Data

Test CH		Channel Ban	Limit(KHz)	Result			
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littit(Ki iz)	Nesull	
Lowest	10.117	16.552	17.878	36.462		Pass	
Middle	10.113	16.554	17.788	36.427	>500		
Highest	10.116	16.562	17.796	36.422			

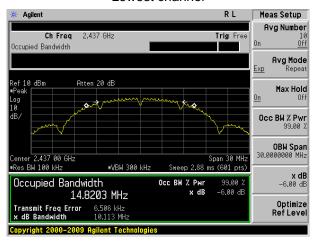
Test plot as follows:



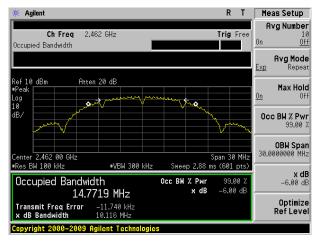
Test mode: 802.11b



Lowest channel



Middle channel

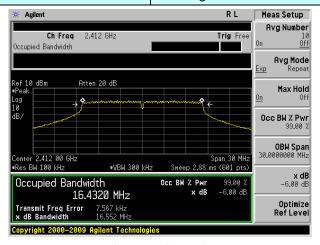


Highest channel

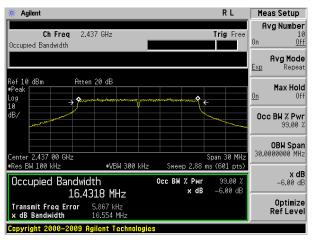
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



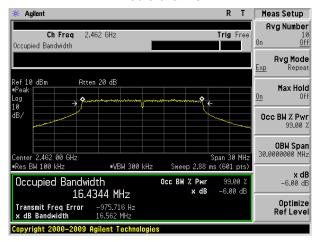
Test mode: 802.11g



Lowest channel



Middle channel

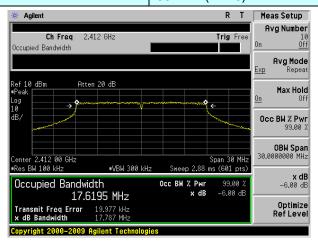


Highest channel

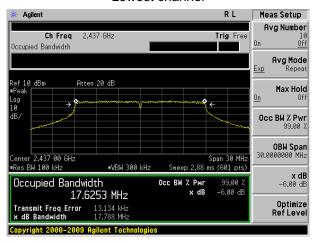
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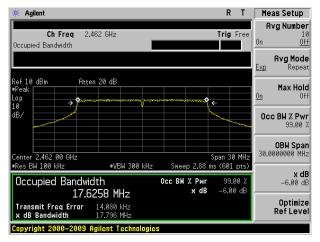
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

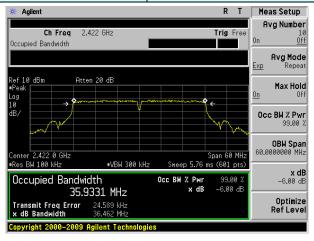


Highest channel

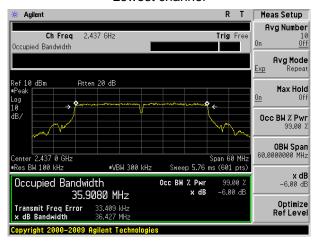


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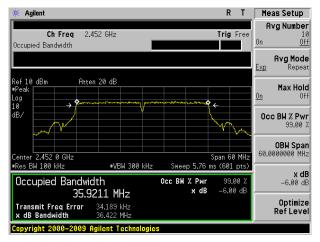
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



Project No.: GTSE131201953RF

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

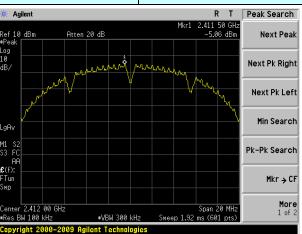
Test CH		Power Spectra	Limit(dBm/3kHz)	Result			
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	LIIIII((dBIII/3KI IZ)	Meanit	
Lowest	-5.06	-9.07	-9.35	-12.43		Pass	
Middle	-5.01	-9.05	-9.11	-12.49	8.00		
Highest	-5.44	-9.09	-9.16	-12.41			

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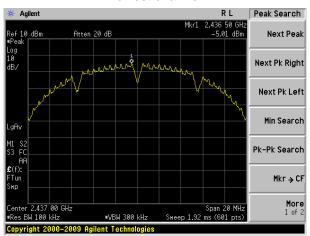


Test plot as follows:

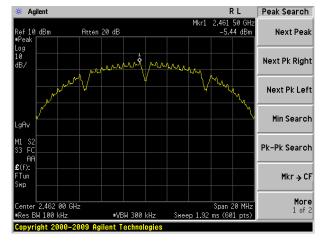
Test mode: 802.11b



Lowest channel



Middle channel

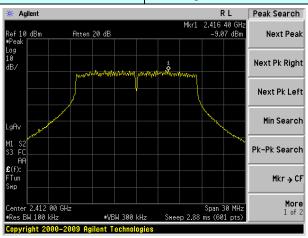


Highest channel

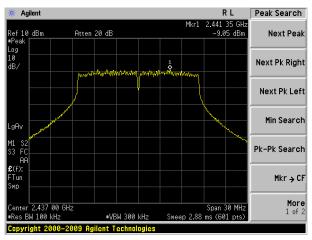
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



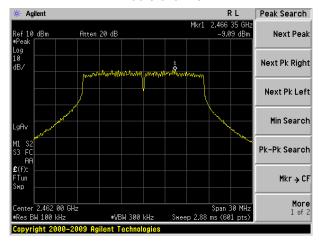
Test mode: 802.11g



Lowest channel



Middle channel



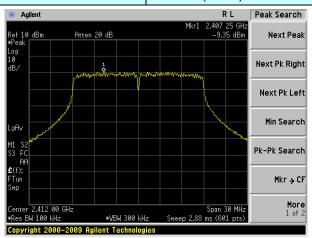
Highest channel

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

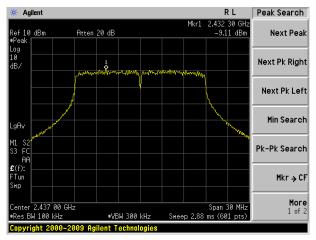


Project No.: GTSE131201953RF

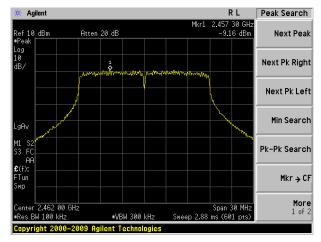
Test mode: 802.11n(HT20)



Lowest channel



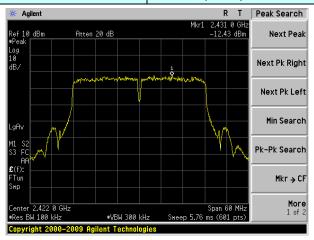
Middle channel



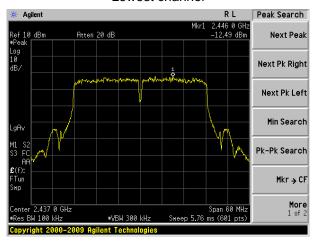
Highest channel



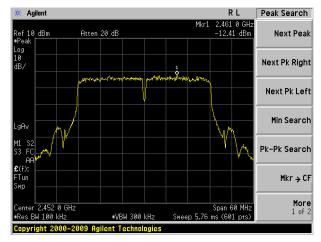
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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



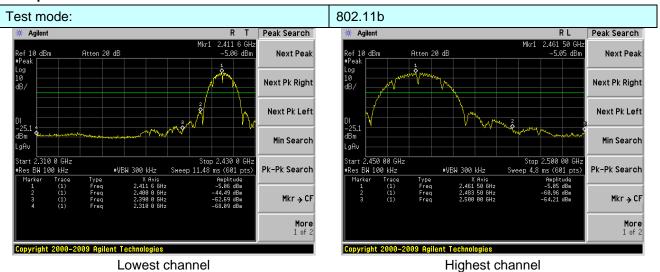
7.6 Band edges

7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

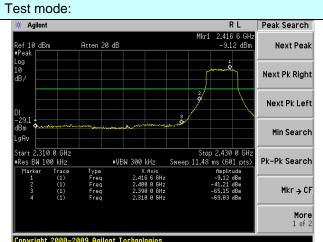


Test plot as follows:

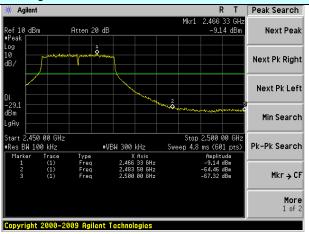


Lowest channel

802.11g



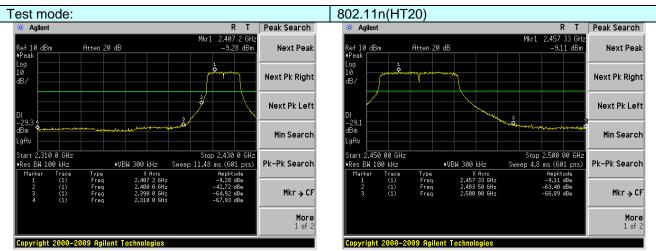
Lowest channel



Highest channel

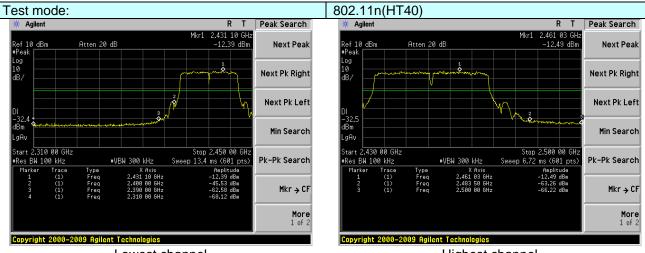
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960





Lowest channel

Highest channel



Lowest channel

Highest channel



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205							
Test Method:	ANSI C63.4: 2003							
Test Frequency Range:			tested, only	the worst ba	and's (2310MHz to			
	2500MHz) data							
Test site:	Measurement D	istance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	710070 10112	Peak	1MHz	10Hz	Average			
Limit:	Freque	ency	Limit (dBuV/		Value			
	Above 1	GH ₂	54.0		Average			
Test setup:	710070	0.1.2	74.0	0	Peak			
	EUT Turn Table	4m Spectrum Analyzer						
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 be EUT where the test in the example of the EUT where the test in the limit specified be an average of the EUT where the test in the limit specified be an average of the EUT where the example the example the test in the limit specified be an average of the EUT where the example the example the example the test in the example t	 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	2.0.0. 40.4110						
	1 400							



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.

I	Test mode:	802.11b	Test channel:	Lowest
ı	. cot mode.	002.1.0	1 001 011011	

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	47.29	27.59	5.38	30.18	50.08	74.00	-23.92	Horizontal
2400.00	54.84	27.58	5.39	30.18	57.63	74.00	-16.37	Horizontal
2390.00	48.66	27.59	5.38	30.18	51.45	74.00	-22.55	Vertical
2400.00	55.46	27.58	5.39	30.18	58.25	74.00	-15.75	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	35.31	27.59	5.38	30.18	38.10	54.00	-15.90	Horizontal
2400.00	43.13	27.58	5.39	30.18	45.92	54.00	-8.08	Horizontal
2390.00	36.78	27.59	5.38	30.18	39.57	54.00	-14.43	Vertical
2400.00	43.92	27.58	5.39	30.18	46.71	54.00	-7.29	Vertical

Test mode:	802.11b	Test channel:	Highest
			11911011

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	46.07	27.53	5.47	29.93	49.14	74.00	-24.86	Horizontal
2500.00	43.30	27.55	5.49	29.93	46.41	74.00	-27.59	Horizontal
2483.50	47.44	27.53	5.47	29.93	50.51	74.00	-23.49	Vertical
2500.00	44.98	27.55	5.49	29.93	48.09	74.00	-25.91	Vertical

Average value:

- 11 01 tage 1 ta								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	35.01	27.53	5.47	29.93	38.08	54.00	-15.92	Horizontal
2500.00	31.94	27.55	5.49	29.93	35.05	54.00	-18.95	Horizontal
2483.50	36.57	27.53	5.47	29.93	39.64	54.00	-14.36	Vertical
2500.00	33.65	27.55	5.49	29.93	36.76	54.00	-17.24	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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Report No.: GTSE13120195301

Test mode:		802.1	2.11g Tes		est channel:		Lowest		
Peak value	:	•					•		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	48.40	27.59	5.38	30.18	3	51.19	74.00	-22.81	Horizontal
2400.00	56.32	27.58	5.39	30.18	3	59.11	74.00	-14.89	Horizontal
2390.00	49.85	27.59	5.38	30.18	3	52.64	74.00	-21.36	Vertical
2400.00	57.24	27.58	5.39	30.18	3	60.03	74.00	-13.97	Vertical
Average va	lue:			•					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	36.10	27.59	5.38	30.18	3	38.89	54.00	-15.11	Horizontal
2400.00	44.04	27.58	5.39	30.18	3	46.83	54.00	-7.17	Horizontal
2390.00	37.65	27.59	5.38	30.18	3	40.44	54.00	-13.56	Vertical
2400.00	44.91	27.58	5.39	30.18	3	47.70	54.00	-6.30	Vertical
Test mode:		802.1	802.11g		Test channel:		Highest		
Peak value				-					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2483.50	47.66	27.53	5.47	29.93	3	50.73	74.00	-23.27	Horizontal
2500.00	44.53	27.55	5.49	29.93	3	47.64	74.00	-26.36	Horizontal
2483.50	49.25	27.53	5.47	29.93	3	52.32	74.00	-21.68	Vertical
2500.00	46.42	27.55	5.49	29.93	3	49.53	74.00	-24.47	Vertical
Average va	lue:			_				_	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2483.50	35.97	27.53	5.47	29.93	3	39.04	54.00	-14.96	Horizontal
2500.00	32.69	27.55	5.49	29.93	3	35.80	54.00	-18.20	Horizontal
2483.50	37.62	27.53	5.47	29.93	3	40.69	54.00	-13.31	Vertical
2500.00	34.44	27.55	5.49	29.93	3	37.55	54.00	-16.45	Vertical
Remark:									

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Shenzhen, China 518102

^{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.



Test mode:

Report No.: GTSE13120195301

Lowest

root mode.		002	(=0)	. •	0. 0			
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	48.29	27.59	5.38	30.18	51.08	74.00	-22.92	Horizontal
2400.00	56.17	27.58	5.39	30.18	58.96	74.00	-15.04	Horizontal
2390.00	49.73	27.59	5.38	30.18	52.52	74.00	-21.48	Vertical
2400.00	57.06	27.58	5.39	30.18	59.85	74.00	-14.15	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	36.02	27.59	5.38	30.18	38.81	54.00	-15.19	Horizontal
2400.00	43.94	27.58	5.39	30.18	46.73	54.00	-7.27	Horizontal
2390.00	37.57	27.59	5.38	30.18	40.36	54.00	-13.64	Vertical
2400.00	44.81	27.58	5.39	30.18	47.60	54.00	-6.40	Vertical
					•		•	
Test mode:		802.1	1n(HT20)	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	47.50	27.53	5.47	29.93	50.57	74.00	-23.43	Horizontal
2500.00	44.40	27.55	5.49	29.93	47.51	74.00	-26.49	Horizontal
2483.50	49.07	27.53	5.47	29.93	52.14	74.00	-21.86	Vertical
2500.00	46.28	27.55	5.49	29.93	49.39	74.00	-24.61	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	35.87	27.53	5.47	29.93	38.94	54.00	-15.06	Horizontal
2500.00	32.61	27.55	5.49	29.93	35.72	54.00	-18.28	Horizontal
2483.50	37.52	27.53	5.47	29.93	40.59	54.00	-13.41	Vertical
2500.00	34.36	27.55	5.49	29.93	37.47	54.00	-16.53	Vertical
Remark:								

Test channel:

802.11n(HT20)

Global United Technology Services Co., Ltd.

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

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

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

Shenzhen, China 518102

1.



Test mode:

Report No.: GTSE13120195301

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	48.37	27.59	5.38	30.18	51.16	74.00	-22.84	Horizontal
2400.00	56.28	27.58	5.39	30.18	59.07	74.00	-14.93	Horizontal
2390.00	49.82	27.59	5.38	30.18	52.61	74.00	-21.39	Vertical
2400.00	57.19	27.58	5.39	30.18	59.98	74.00	-14.02	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	36.07	27.59	5.38	30.18	38.86	54.00	-15.14	Horizontal
2400.00	44.01	27.58	5.39	30.18	46.80	54.00	-7.20	Horizontal
2390.00	37.63	27.59	5.38	30.18	40.42	54.00	-13.58	Vertical
2400.00	44.89	27.58	5.39	30.18	47.68	54.00	-6.32	Vertical
Test mode:		802.1	1n(HT40)	Te	st channel:	F	lighest	
Peak value:								
					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
	Level	Factor	Loss	Factor			Limit	Polarization Horizontal
(MHz)	Level (dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	(dBuV/m)	(dBuV/m)	Limit (dB)	
(MHz) 2483.50	Level (dBuV) 47.61	Factor (dB/m) 27.53	Loss (dB) 5.47	Factor (dB) 29.93	(dBuV/m) 50.68	(dBuV/m) 74.00	Limit (dB) -23.32	Horizontal
(MHz) 2483.50 2500.00	Level (dBuV) 47.61 44.49	Factor (dB/m) 27.53 27.55	Loss (dB) 5.47 5.49	Factor (dB) 29.93 29.93	(dBuV/m) 50.68 47.60	74.00 74.00	Limit (dB) -23.32 -26.40	Horizontal Horizontal
(MHz) 2483.50 2500.00 2483.50	Level (dBuV) 47.61 44.49 49.20 46.38	Factor (dB/m) 27.53 27.55 27.53	Loss (dB) 5.47 5.49 5.47	Factor (dB) 29.93 29.93 29.93	(dBuV/m) 50.68 47.60 52.27	74.00 74.00 74.00 74.00	Limit (dB) -23.32 -26.40 -21.73	Horizontal Horizontal Vertical
(MHz) 2483.50 2500.00 2483.50 2500.00	Level (dBuV) 47.61 44.49 49.20 46.38	Factor (dB/m) 27.53 27.55 27.53	Loss (dB) 5.47 5.49 5.47	Factor (dB) 29.93 29.93 29.93	(dBuV/m) 50.68 47.60 52.27	74.00 74.00 74.00 74.00	Limit (dB) -23.32 -26.40 -21.73	Horizontal Horizontal Vertical
(MHz) 2483.50 2500.00 2483.50 2500.00 Average va	Level (dBuV) 47.61 44.49 49.20 46.38 Iue:	Factor (dB/m) 27.53 27.55 27.53 27.55 Antenna Factor	Loss (dB) 5.47 5.49 5.47 5.49 Cable Loss	Factor (dB) 29.93 29.93 29.93 29.93 Preamp Factor	(dBuV/m) 50.68 47.60 52.27 49.49 Level	74.00 74.00 74.00 74.00 Tumit Line	Limit (dB) -23.32 -26.40 -21.73 -24.51 Over Limit	Horizontal Horizontal Vertical Vertical
(MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz)	Level (dBuV) 47.61 44.49 49.20 46.38 lue: Read Level (dBuV)	Factor (dB/m) 27.53 27.55 27.55 27.55 Antenna Factor (dB/m)	Loss (dB) 5.47 5.49 5.47 5.49 Cable Loss (dB)	Factor (dB) 29.93 29.93 29.93 Preamp Factor (dB)	(dBuV/m) 50.68 47.60 52.27 49.49 Level (dBuV/m)	74.00 74.00 74.00 74.00 Tumit Line (dBuV/m)	Limit (dB) -23.32 -26.40 -21.73 -24.51 Over Limit (dB)	Horizontal Horizontal Vertical Vertical Polarization
(MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50	Level (dBuV) 47.61 44.49 49.20 46.38 lue: Read Level (dBuV) 35.94	Factor (dB/m) 27.53 27.55 27.55 27.55 Antenna Factor (dB/m) 27.53	Loss (dB) 5.47 5.49 5.47 5.49 Cable Loss (dB) 5.47	Factor (dB) 29.93 29.93 29.93 Preamp Factor (dB) 29.93	(dBuV/m) 50.68 47.60 52.27 49.49 Level (dBuV/m) 39.01	74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	Limit (dB) -23.32 -26.40 -21.73 -24.51 Over Limit (dB) -14.99	Horizontal Horizontal Vertical Vertical Polarization Horizontal
(MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50 2500.00	Level (dBuV) 47.61 44.49 49.20 46.38 Iue: Read Level (dBuV) 35.94 32.67	Factor (dB/m) 27.53 27.55 27.55 27.55 Antenna Factor (dB/m) 27.53 27.55	Loss (dB) 5.47 5.49 5.47 5.49 Cable Loss (dB) 5.47 5.49	Factor (dB) 29.93 29.93 29.93 Preamp Factor (dB) 29.93 29.93	(dBuV/m) 50.68 47.60 52.27 49.49 Level (dBuV/m) 39.01 35.78	(dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00 54.00	Limit (dB) -23.32 -26.40 -21.73 -24.51 Over Limit (dB) -14.99 -18.22	Horizontal Horizontal Vertical Vertical Polarization Horizontal Horizontal

Test channel:

802.11n(HT40)

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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.



7.7 Spurious Emission

7.7.1 Conducted Emission Method

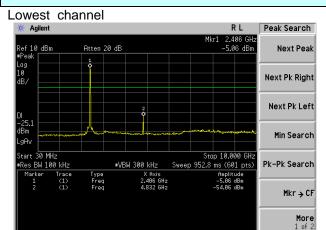
Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					



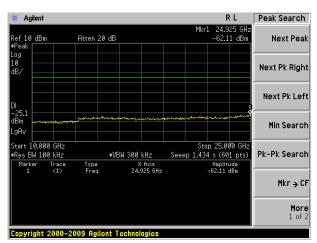
Test plot as follows:

Test mode:

802.11b

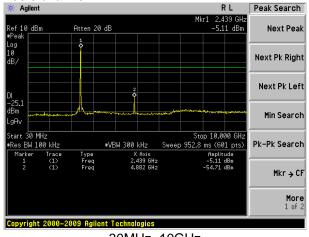


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30MHz~10GHz

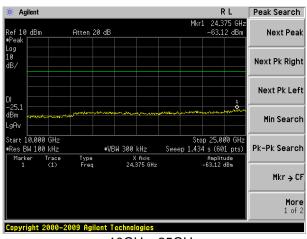


10GHz~25GHz

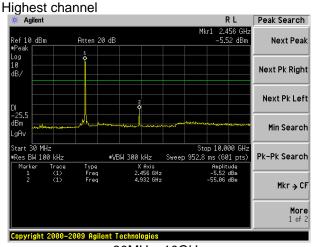




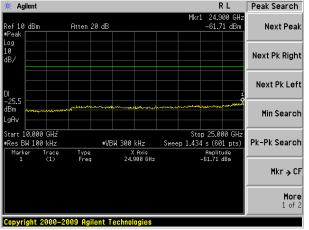
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



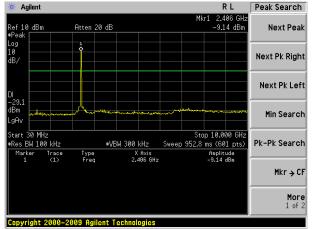
10GHz~25GHz



Test mode:

802.11g



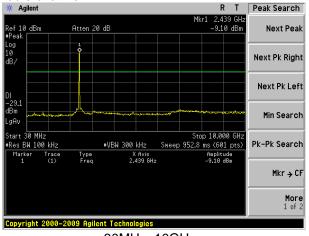


30MHz~10GHz

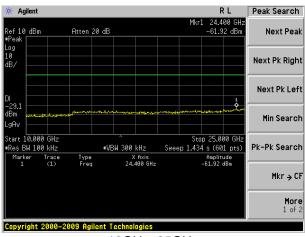
Agilent Peak Search Ref 10 dBm Atten 20 dE Next Peak Next Pk Right Next Pk Left Min Search gAv Start 10.000 GHz •Res BW 100 kHz Stop 25.000 GHz Sweep 1.434 s (601 pts) Pk-Pk Search X Axis 24.750 GHz Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

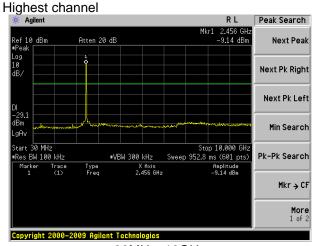
Middle channel



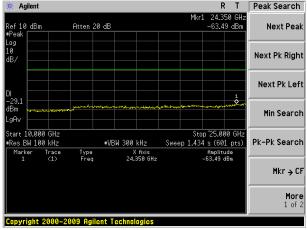
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



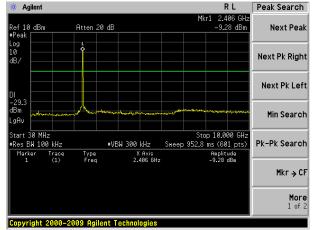
10GHz~25GHz



Test mode:

802.11n(HT20)

Lowest channel



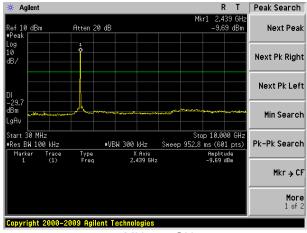
30MHz~10GHz

Peak Search R L 🗰 Agilent Next Peak Atten 20 dB Next Pk Right Next Pk Left Min Search Start 10.000 GHz ■Res BW 100 kHz Stop 25.000 GH: Sweep 1.434 s (601 pts) Pk-Pk Search #VBW 300 kHz Type Freq X Axis 24.725 GHz Mkr → CF More 1 of 2

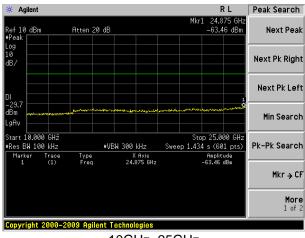
10GHz~25GHz

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Middle channel

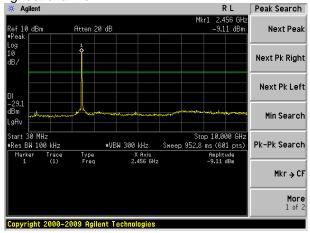


30MHz~10GHz

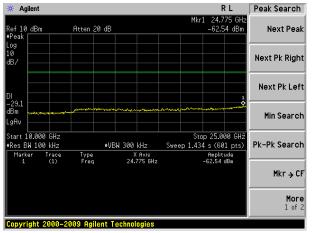


10GHz~25GHz





30MHz~10GHz



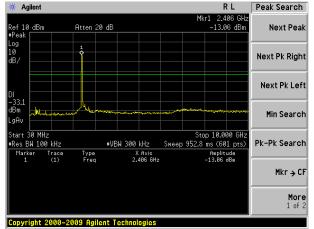
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

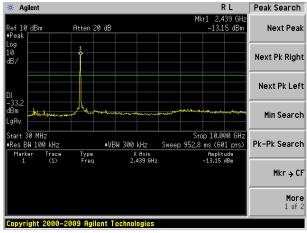


30MHz~10GHz

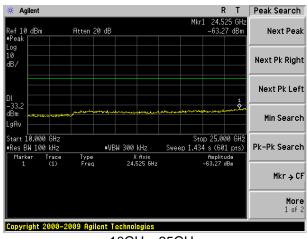
🔆 Agilent Peak Search 24.925 GHz -62.90 dBm Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH Sweep 1.434 s (601 pts) ■Res BW 100 kHz #VBW 300 kHz Pk-Pk Search Type Freq X Axis 24.925 GHz Amplitude -62.90 dBm Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

Middle channel

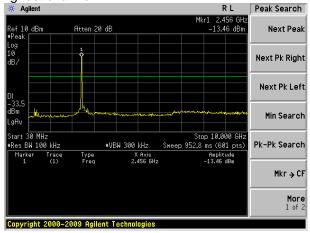


30MHz~10GHz

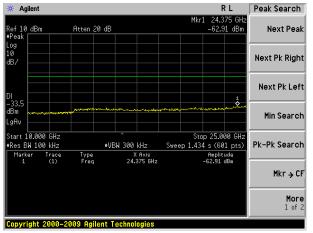


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Test Method:	ANSI C63.4: 200										
	ANSI C03.4. 200	3									
Test Frequency Range:	30MHz to 25GHz	30MHz to 25GHz									
Test site:	Measurement Dis	Measurement Distance: 3m Frequency Detector RBW VBW Value									
Receiver setup:	Frequency	Frequency Detector RBW VBW									
	30MHz-1GHz	' '									
	Above 1CHz	Above 1GHz Quasi-peak 120KHz 300KHz Peak 1MHz 3MHz									
	Above 1GHz	Peak	1MHz	10Hz	Average						
Limit:	Frequen	cy L	_imit (dBuV	/m @3m)	Value						
	30MHz-88	MHz	40.0	0	Quasi-peak						
	88MHz-216	6MHz	43.5	0	Quasi-peak						
	216MHz-96	0MHz	46.0	0	Quasi-peak						
	960MHz-1	GHz	54.0	0	Quasi-peak						
	Above 10	`U-	54.0	0	Average						
	Above 10	סחב	74.0	0	Peak						
	Tum 7.8m 7.8m 7.8m 7.8m 7.8m 7.8m 7.8m 7.8	Antenna Tower Horn Antenna									

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102



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

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-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
121.12	47.31	12.29	1.37	31.86	29.11	43.50	-14.39	Vertical
199.99	49.79	12.57	1.84	32.14	32.06	43.50	-11.44	Vertical
408.95	49.78	17.26	2.90	31.86	38.08	46.00	-7.92	Vertical
480.53	51.41	18.07	3.22	31.62	41.08	46.00	-4.92	Vertical
550.95	48.38	19.57	3.53	31.28	40.20	46.00	-5.80	Vertical
750.11	47.23	21.43	4.28	31.26	41.68	46.00	-4.32	Vertical
61.35	43.21	14.16	0.87	31.93	26.31	40.00	-13.69	Horizontal
143.83	54.88	10.22	1.53	31.96	34.67	43.50	-8.83	Horizontal
216.02	52.17	13.07	1.93	32.15	35.02	46.00	-10.98	Horizontal
350.48	50.43	16.27	2.62	32.02	37.30	46.00	-8.70	Horizontal
480.53	53.91	18.07	3.22	31.62	43.58	46.00	-2.42	Horizontal
601.43	48.79	20.46	3.73	31.04	41.94	46.00	-4.06	Horizontal



■ Above 1GHz

Test mode:		802.11b		Test	channel:	Lowe	est	
Peak value:				,		•		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	33.50	31.79	8.62	32.10	41.81	74.00	-32.19	Vertical
7236.00	27.85	36.19	11.68	31.97	43.75	74.00	-30.25	Vertical
9648.00	28.41	38.07	14.16	31.56	49.08	74.00	-24.92	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	32.80	31.79	8.62	32.10	41.11	74.00	-32.89	Horizontal
7236.00	27.64	36.19	11.68	31.97	43.54	74.00	-30.46	Horizontal
9648.00	27.95	38.07	14.16	31.56	48.62	74.00	-25.38	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	23.31	31.79	8.62	32.10	31.62	54.00	-22.38	Vertical
7236.00	17.38	36.19	11.68	31.97	33.28	54.00	-20.72	Vertical
9648.00	17.56	38.07	14.16	31.56	38.23	54.00	-15.77	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	22.59	31.79	8.62	32.10	30.90	54.00	-23.10	Horizontal
7236.00	16.93	36.19	11.68	31.97	32.83	54.00	-21.17	Horizontal
9648.00	16.58	38.07	14.16	31.56	37.25	54.00	-16.75	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		Te	st channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	33.39	31.85	8.66	32.12	41.78	74.00	-32.22	Vertical
7311.00	28.69	36.37	11.71	31.91	44.86	74.00	-29.14	Vertical
9748.00	28.30	38.27	14.25	31.56	49.26	74.00	-24.74	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	34.02	31.85	8.66	32.12	42.41	74.00	-31.59	Horizontal
7311.00	27.40	36.37	11.71	31.91	43.57	74.00	-30.43	Horizontal
9748.00	28.22	38.27	14.25	31.56	49.18	74.00	-24.82	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	24.32	31.85	8.66	32.12	32.71	54.00	-21.29	Vertical
7311.00	17.02	36.37	11.71	31.91	33.19	54.00	-20.81	Vertical
9748.00	17.57	38.27	14.25	31.56	38.53	54.00	-15.47	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	24.18	31.85	8.66	32.12	32.57	54.00	-21.43	Horizontal
7311.00	16.51	36.37	11.71	31.91	32.68	54.00	-21.32	Horizontal
9748.00	17.95	38.27	14.25	31.56	38.91	54.00	-15.09	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

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



Test mode:		802.11b		Tes	t channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	38.23	31.90	8.70	32.15	46.68	74.00	-27.32	Vertical
7386.00	28.92	36.49	11.76	31.83	45.34	74.00	-28.66	Vertical
9848.00	31.28	38.62	14.31	31.77	52.44	74.00	-21.56	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	37.80	31.90	8.70	32.15	46.25	74.00	-27.75	Horizontal
7386.00	27.96	36.49	11.76	31.83	44.38	74.00	-29.62	Horizontal
9848.00	27.51	38.62	14.31	31.77	48.67	74.00	-25.33	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	29.28	31.90	8.70	32.15	37.73	54.00	-16.27	Vertical
7386.00	18.88	36.49	11.76	31.83	35.30	54.00	-18.70	Vertical
9848.00	19.82	38.62	14.31	31.77	40.98	54.00	-13.02	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	28.25	31.90	8.70	32.15	36.70	54.00	-17.30	Horizontal
7386.00	17.37	36.49	11.76	31.83	33.79	54.00	-20.21	Horizontal
9848.00	16.80	38.62	14.31	31.77	37.96	54.00	-16.04	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:		802.11g		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	32.68	31.79	8.62	32.10	40.99	74.00	-33.01	Vertical
7236.00	27.33	36.19	11.68	31.97	43.23	74.00	-30.77	Vertical
9648.00	28.03	38.07	14.16	31.56	48.70	74.00	-25.30	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	32.10	31.79	8.62	32.10	40.41	74.00	-33.59	Horizontal
7236.00	27.19	36.19	11.68	31.97	43.09	74.00	-30.91	Horizontal
9648.00	27.61	38.07	14.16	31.56	48.28	74.00	-25.72	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	22.55	31.79	8.62	32.10	30.86	54.00	-23.14	Vertical
7236.00	16.88	36.19	11.68	31.97	32.78	54.00	-21.22	Vertical
9648.00	17.20	38.07	14.16	31.56	37.87	54.00	-16.13	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	21.93	31.79	8.62	32.10	30.24	54.00	-23.76	Horizontal
7236.00	16.49	36.19	11.68	31.97	32.39	54.00	-21.61	Horizontal
9648.00	16.24	38.07	14.16	31.56	36.91	54.00	-17.09	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

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



Test mode:		802.11g		Tes	t channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	32.71	31.85	8.66	32.12	41.10	74.00	-32.90	Vertical
7311.00	28.25	36.37	11.71	31.91	44.42	74.00	-29.58	Vertical
9748.00	27.99	38.27	14.25	31.56	48.95	74.00	-25.05	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	33.45	31.85	8.66	32.12	41.84	74.00	-32.16	Horizontal
7311.00	27.02	36.37	11.71	31.91	43.19	74.00	-30.81	Horizontal
9748.00	27.94	38.27	14.25	31.56	48.90	74.00	-25.10	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	23.69	31.85	8.66	32.12	32.08	54.00	-21.92	Vertical
7311.00	16.61	36.37	11.71	31.91	32.78	54.00	-21.22	Vertical
9748.00	17.28	38.27	14.25	31.56	38.24	54.00	-15.76	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	23.64	31.85	8.66	32.12	32.03	54.00	-21.97	Horizontal
7311.00	16.14	36.37	11.71	31.91	32.31	54.00	-21.69	Horizontal
9748.00	17.68	38.27	14.25	31.56	38.64	54.00	-15.36	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:		802.11g		Tes	t channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	37.06	31.90	8.70	32.15	45.51	74.00	-28.49	Vertical
7386.00	28.18	36.49	11.76	31.83	44.60	74.00	-29.40	Vertical
9848.00	30.75	38.62	14.31	31.77	51.91	74.00	-22.09	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	36.80	31.90	8.70	32.15	45.25	74.00	-28.75	Horizontal
7386.00	27.30	36.49	11.76	31.83	43.72	74.00	-30.28	Horizontal
9848.00	27.02	38.62	14.31	31.77	48.18	74.00	-25.82	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	28.19	31.90	8.70	32.15	36.64	54.00	-17.36	Vertical
7386.00	18.16	36.49	11.76	31.83	34.58	54.00	-19.42	Vertical
9848.00	19.31	38.62	14.31	31.77	40.47	54.00	-13.53	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	27.31	31.90	8.70	32.15	35.76	54.00	-18.24	Horizontal
7386.00	16.74	36.49	11.76	31.83	33.16	54.00	-20.84	Horizontal
9848.00	16.32	38.62	14.31	31.77	37.48	54.00	-16.52	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

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



Test mode:		802.11n(H	IT20)	Tes	st 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	32.38	31.79	8.62	32.10	40.69	74.00	-33.31	Vertical
7236.00	27.14	36.19	11.68	31.97	43.04	74.00	-30.96	Vertical
9648.00	27.90	38.07	14.16	31.56	48.57	74.00	-25.43	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	31.85	31.79	8.62	32.10	40.16	74.00	-33.84	Horizontal
7236.00	27.02	36.19	11.68	31.97	42.92	74.00	-31.08	Horizontal
9648.00	27.48	38.07	14.16	31.56	48.15	74.00	-25.85	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	22.28	31.79	8.62	32.10	30.59	54.00	-23.41	Vertical
7236.00	16.69	36.19	11.68	31.97	32.59	54.00	-21.41	Vertical
9648.00	17.07	38.07	14.16	31.56	37.74	54.00	-16.26	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	21.69	31.79	8.62	32.10	30.00	54.00	-24.00	Horizontal
7236.00	16.33	36.19	11.68	31.97	32.23	54.00	-21.77	Horizontal
9648.00	16.12	38.07	14.16	31.56	36.79	54.00	-17.21	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.

Shenzhen, China 518102



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	32.46	31.85	8.66	32.12	40.85	74.00	-33.15	Vertical
7311.00	28.10	36.37	11.71	31.91	44.27	74.00	-29.73	Vertical
9748.00	27.88	38.27	14.25	31.56	48.84	74.00	-25.16	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	33.24	31.85	8.66	32.12	41.63	74.00	-32.37	Horizontal
7311.00	26.89	36.37	11.71	31.91	43.06	74.00	-30.94	Horizontal
9748.00	27.84	38.27	14.25	31.56	48.80	74.00	-25.20	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	23.47	31.85	8.66	32.12	31.86	54.00	-22.14	Vertical
7311.00	16.45	36.37	11.71	31.91	32.62	54.00	-21.38	Vertical
9748.00	17.17	38.27	14.25	31.56	38.13	54.00	-15.87	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	23.45	31.85	8.66	32.12	31.84	54.00	-22.16	Horizontal
7311.00	16.01	36.37	11.71	31.91	32.18	54.00	-21.82	Horizontal
9748.00	17.58	38.27	14.25	31.56	38.54	54.00	-15.46	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

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



Test mode:		802.11n(H	IT20)	Tes	t channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	36.63	31.90	8.70	32.15	45.08	74.00	-28.92	4924.00
7386.00	27.91	36.49	11.76	31.83	44.33	74.00	-29.67	7386.00
9848.00	30.56	38.62	14.31	31.77	51.72	74.00	-22.28	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	36.44	31.90	8.70	32.15	44.89	74.00	-29.11	Horizontal
7386.00	27.07	36.49	11.76	31.83	43.49	74.00	-30.51	Horizontal
9848.00	26.84	38.62	14.31	31.77	48.00	74.00	-26.00	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	27.80	31.90	8.70	32.15	36.25	54.00	-17.75	Vertical
7386.00	17.90	36.49	11.76	31.83	34.32	54.00	-19.68	Vertical
9848.00	19.12	38.62	14.31	31.77	40.28	54.00	-13.72	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	26.98	31.90	8.70	32.15	35.43	54.00	-18.57	Horizontal
7386.00	16.51	36.49	11.76	31.83	32.93	54.00	-21.07	Horizontal
9848.00	16.15	38.62	14.31	31.77	37.31	54.00	-16.69	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)	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
4844.00	31.43	31.81	8.63	32.11	39.76	74.00	-34.24	Vertical
7266.00	26.54	36.28	11.69	31.94	42.57	74.00	-31.43	Vertical
9688.00	27.47	38.13	14.21	31.52	48.29	74.00	-25.71	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	31.05	31.81	8.63	32.11	39.38	74.00	-34.62	Horizontal
7266.00	26.50	36.28	11.69	31.94	42.53	74.00	-31.47	Horizontal
9688.00	27.09	38.13	14.21	31.52	47.91	74.00	-26.09	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	21.40	31.81	8.63	32.11	29.73	54.00	-24.27	Vertical
7266.00	16.11	36.28	11.69	31.94	32.14	54.00	-21.86	Vertical
9688.00	16.66	38.13	14.21	31.52	37.48	54.00	-16.52	Vertical
12060.00	*				54.00			Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	20.94	31.81	8.63	32.11	29.27	54.00	-24.73	Horizontal
7266.00	15.82	36.28	11.69	31.94	31.85	54.00	-22.15	Horizontal
9688.00	15.74	38.13	14.21	31.52	36.56	54.00	-17.44	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 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	31.68	31.85	8.66	32	.12	40.07	74.00		-33.93	Vertical
7311.00	27.60	36.37	11.71	31	.91	43.77	74.	00	-30.23	Vertical
9748.00	27.53	38.27	14.25	31.56		48.49	74.00		-25.51	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	32.57	31.85	8.66	32	.12	40.96	74.00		-33.04	Horizontal
7311.00	26.45	36.37	11.71	31	.91	42.62	74.00		-31.38	Horizontal
9748.00	27.51	38.27	14.25	31.56		48.47	74.00		-25.53	Horizontal
12185.00	*						74.	00		Horizontal
14622.00	*						74.	00		Horizontal
17059.00	*						74.	00		Horizontal
Average val										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor IB)	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	22.74	31.85	8.66	32	.12	31.13	54.	00	-22.87	Vertical
7311.00	15.97	36.37	11.71	31	.91	32.14	54.	00	-21.86	Vertical
9748.00	16.83	38.27	14.25	31	.56	37.79	54.	00	-16.21	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	22.83	31.85	8.66	32.12		31.22	54.	00	-22.78	Horizontal
7311.00	15.59	36.37	11.71	31.91		31.76	54.	00	-22.24	Horizontal
9748.00	17.26	38.27	14.25	31	.56	38.22	54.	00	-15.78	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*						54.	00		Horizontal

Remark:

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



Test mode:	le: 802.11n(HT40)		Test	channel:	Highest			
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	35.28	31.88	8.68	32.13	43.71	74.00	-30.29	Vertical
7356.00	27.05	36.45	11.75	31.86	43.39	74.00	-30.61	Vertical
9808.00	29.95	38.43	14.29	31.68	50.99	74.00	-23.01	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	35.30	31.88	8.68	32.13	43.73	74.00	-30.27	Horizontal
7356.00	26.32	36.45	11.75	31.86	42.66	74.00	-31.34	Horizontal
9808.00	26.28	38.43	14.29	31.68	47.32	74.00	-26.68	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	26.55	31.88	8.68	32.13	34.98	54.00	-19.02	Vertical
7356.00	17.07	36.45	11.75	31.86	33.41	54.00	-20.59	Vertical
9808.00	18.53	38.43	14.29	31.68	39.57	54.00	-14.43	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	25.90	31.88	8.68	32.13	34.33	54.00	-19.67	Horizontal
7356.00	15.79	36.45	11.75	31.86	32.13	54.00	-21.87	Horizontal
9808.00	15.61	38.43	14.29	31.68	36.65	54.00	-17.35	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

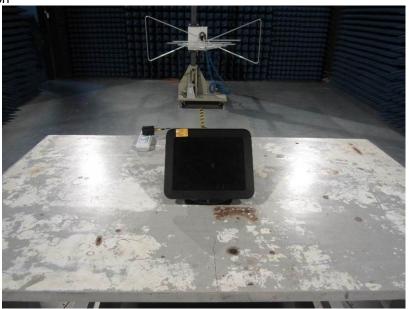
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

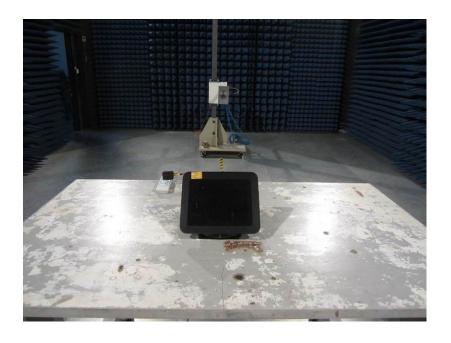
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission





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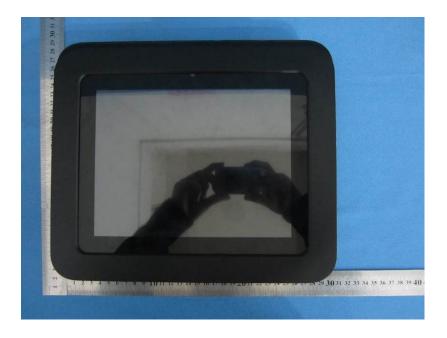
Conducted Emission



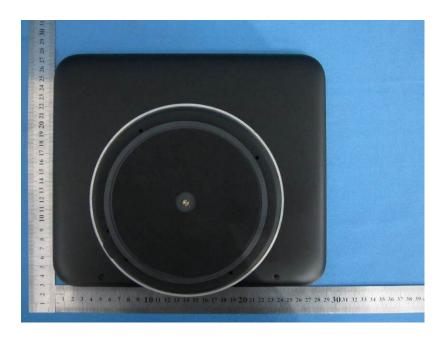


9 EUT Constructional Details











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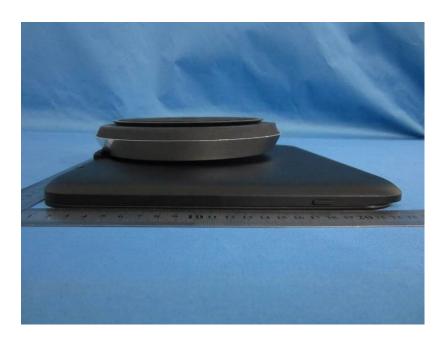






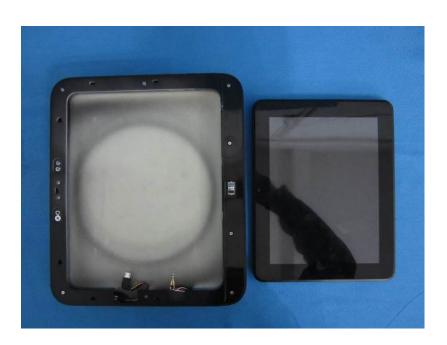
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960





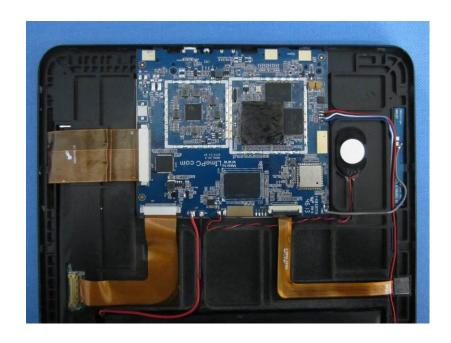








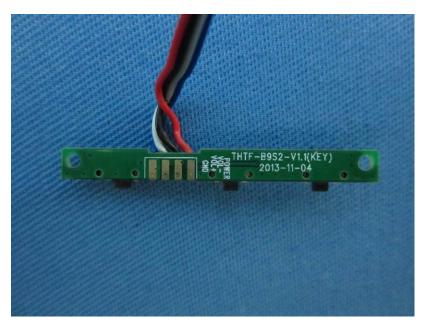




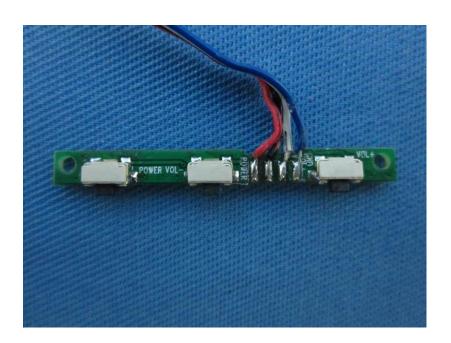








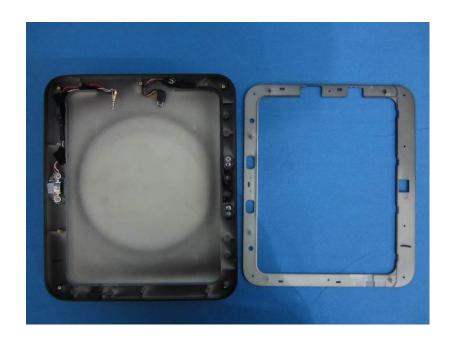


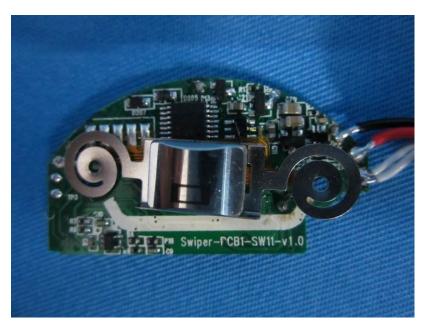




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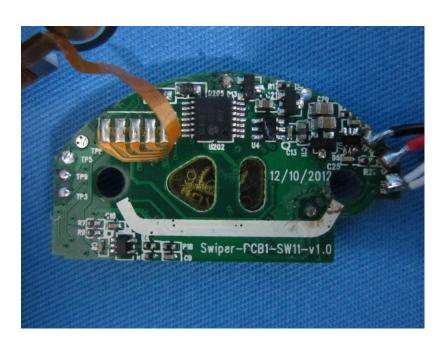


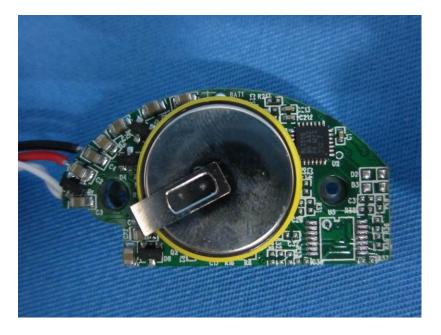




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