

Global United Technology Services Co., Ltd.

Report No.: GTS16000370E01

FCC Report (WIFI)

Applicant: AOC

Address of Applicant: 14F-5, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei

City, Taiwan

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: A722

Trade Mark: AOC

FCC ID: 2AEB5-A722

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2014

Date of sample receipt: March 07, 2016

Date of Test: March 08-11, 2016

Date of report issued: March 14, 2016

Test Result: PASS *

Authorized Signature:

Robinson Lo Laboratory Manager

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

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



2 Version

Version No.	Date	Description
00	March 14, 2016	Original

Prepared By:	Edward.Par	Date:	March 14, 2016
	Project Engineer	_	
Check By:	hank. yan Reviewer	Date:	March 14, 2016



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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.

Remark: Test according to ANSI C63.4:2014 and ANSI C63.10:2013.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.			



5 General Information

5.1 Client Information

Applicant:	AOC
Address of Applicant:	14F-5, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei City, Taiwan
Manufacturer:	AOC
Address of Manufacturer:	14F-5, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei City, Taiwan

5.2 General Description of EUT

Product Name:	Tablet PC
Model No.:	A722
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:	1dBi (declare by Applicant)
Power Supply:	Adapter:
	Model:JHD-AP012U-050150BB
	Input: AC 120V, 60Hz, 0.35A
	Output: DC 5V, 1500mA
	Or
	DC 3.7V Li-ion battery 2600mAh

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Operation	Frequency eac	h of channe	el				
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 channel	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)	
Lowest channel	2412MHz	2422MHz	
Middle channel	2437MHz	2437MHz	
Highest channel	2462MHz	2452MHz	

5.3 Test mode

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

Remark: During the test,the dutycycle >98%, 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

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5.5 Test Facility

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

• 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: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960



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. 27 2015	Mar. 26 2016				
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. 03 2015	Dec. 02 2016				
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 30 2015	June 29 2016				
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 30 2015	June 29 2016				
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 26 2015	June 25 2016				
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016				
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A				
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016				
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016				
11	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016				
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016				
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 30 2015	June 29 2016				
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 30 2015	June 29 2016				
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 26 2015	June 25 2016				
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016				
17	Power Meter	Anritsu	ML2495A	GTS540	June 30 2015	June 29 2016				
18	Power Sensor	Anritsu	MA2411B	GTS541	June 30 2015	June 29 2016				

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 2015	Sep. 06 2016				
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	June 30 2015	June 29 2016				
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	June 30 2015	June 29 2016				
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June 30 2015	June 29 2016				
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	June 30 2015	June 29 2016				
6	Coaxial Cable	GTS	N/A	GTS227	June 30 2015	June 29 2016				
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 07 2015	July 06 2016				



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.

EUT Antenna:

The antenna is integral antenna, the best case gain of the antenna is 1dBi





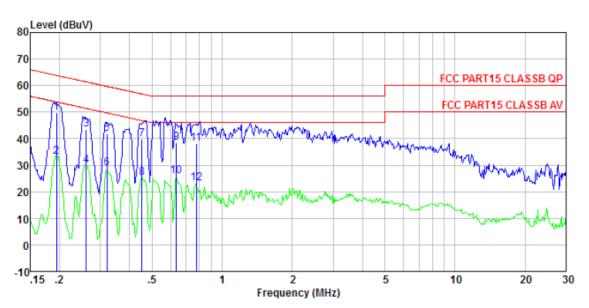
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.4:2014					
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto				
Limit:	Frequency range (MHz)	Limit (c	lBuV)			
	, , ,	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
- , ,	* Decreases with the logarithm	n of the frequency.				
Test setup:	Reference Plane		_			
	AUX Filter AC power Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m					
Test procedure:	 The E.U.T and simulators a line impedance stabilization 50ohm/50uH coupling imped The peripheral devices are 	n network (L.I.S.N.). The dance for the measuri	nis provides a ing equipment.			
	LISN that provides a 50ohn termination. (Please refer to photographs).		g impedance 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 characteristic according to ANSI C63.4: 2014 on conducted measurement.					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					



Measurement data

Line:



Site : Shielded room

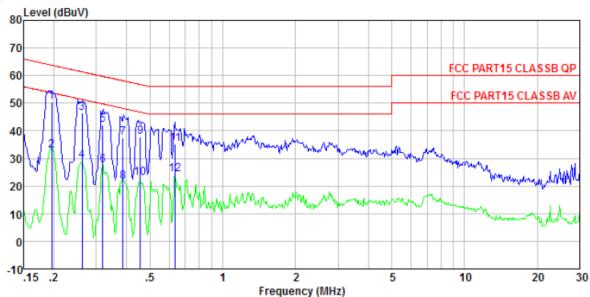
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 0370 Test mode : Wifi mode Test Engineer: Arslan

	Freq	Read Level	Level	Limit Line	LISN Factor	Cable Loss	Over Limit	Remark
	MHz	dBuV	dBuV	dBuV	dB	dB	dB	
1	0.194	49.42	49.69	63.84	0.14	0.13	-14.15	QP
2 3	0.194	32.92	33.19	53.84	0.14	0.13	-20.65	Average
3	0.260	43.34	43.56	61.42	0.11	0.11	-17.86	QP
4	0.260	29.71	29.93	51.42	0.11	0.11	-21.49	Average
4 5	0.320	41.63	41.84	59.71	0.11	0.10	-17.87	QP
6 7	0.320	28.63	28.84	49.71	0.11	0.10	-20.87	Average
7	0.452	39.42	39.65	56.85	0.12	0.11	-17.20	QP
8 9	0.452	24.98	25.21	46.85	0.12	0.11	-21.64	Average
9	0.637	38.25	38.51	56.00	0.13	0.13	-17.49	QP
10	0.637	25.59	25.85	46.00	0.13	0.13	-20.15	Average
11	0.775	38.03	38.30	56.00	0.14	0.13	-17.70	QP
12	0.775	23.06	23.33	46.00	0.14	0.13	-22.67	Average



Neutral:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0370 Test mode : Wifi mode Test Engineer: Arslan

000	Freq	Read	Level	Limit Line	LISN Factor	Cable Loss	Over Limit	Remark
	MHz	dBuV	dBu∜	dBu₹	dB	dB	dB	
1 2 3 4 5 6 7 8 9	0. 197 0. 197 0. 262 0. 262 0. 318 0. 318 0. 387 0. 387 0. 456	50. 21 32. 55 46. 18 28. 99 41. 98 27. 44 37. 37 21. 49 37. 74 22. 60	50. 41 32. 75 46. 35 29. 16 42. 14 27. 60 37. 54 21. 66 37. 91 22. 77	63. 76 53. 76 61. 38 51. 38 59. 75 49. 75 58. 12 48. 12 56. 76 46. 76	0. 07 0. 07 0. 06 0. 06 0. 06 0. 06 0. 06 0. 06 0. 06	0.13 0.11 0.11 0.10 0.10 0.11 0.11 0.11	-15. 03 -22. 22 -17. 61 -22. 15 -20. 58 -26. 46 -18. 85 -23. 99	Average QP Average QP Average QP Average QP Average
11 12	0.637 0.637	34. 94 23. 90	35.14 24.10	56.00 46.00	0.07 0.07		-20.86 -21.90	Qr Average

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 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.

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7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03				
Limit:	30dBm				
Test setup:	Power Meter E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

Measurement Data

Test CH		Peak Outp	Limit(dBm)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(dDim)	Result
Lowest	7.73	7.93	5.32	6.83		
Middle	8.23	7.90	7.52	6.53	30.00	Pass
Highest	8.19	7.68	6.60	6.21		



7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)			
Test Method:	ANSI C63.10:2013 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			

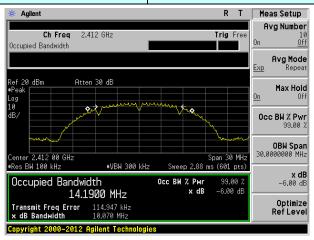
Measurement Data

Test CH		Channel E	Limit(KHz)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Lillin((XI IZ)	rtesuit
Lowest	10.070	16.352	17.431	35.794		
Middle	10.088	16.396	17.608	35.820	>500	Pass
Highest	10.045	16.436	17.768	35.628		

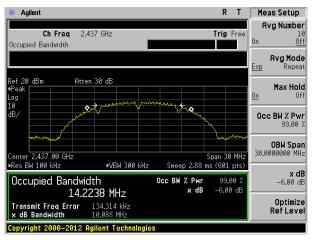
Test plot as follows:



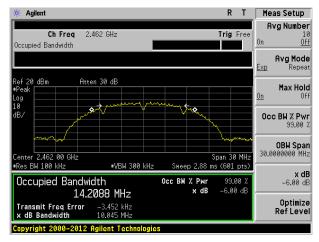
Test mode: 802.11b



Lowest channel



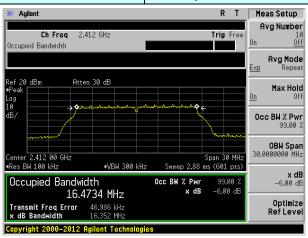
Middle channel



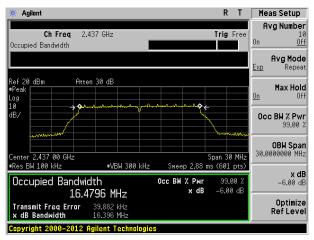
Highest channel



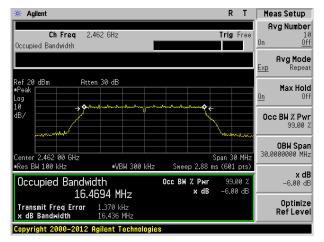
Test mode: 802.11g



Lowest channel



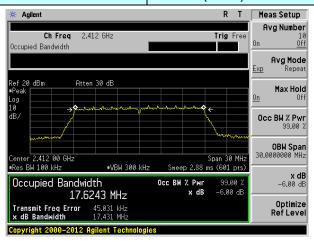
Middle channel



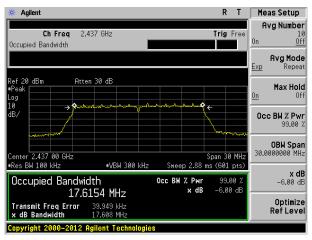
Highest channel



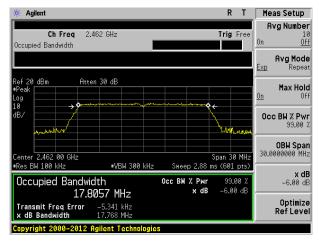
Test mode: 802.11n(HT20)



Lowest channel



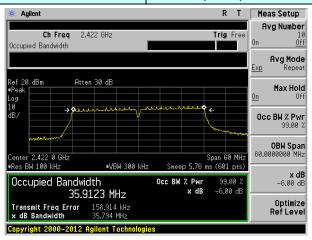
Middle channel



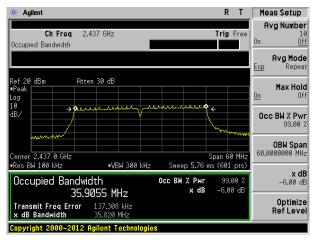
Highest channel



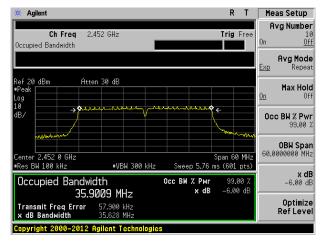
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)		
Test Method:	ANSI C63.10:2013 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		

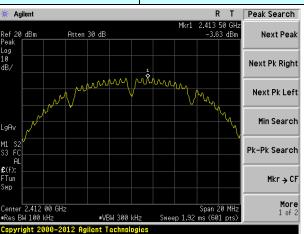
Measurement Data

Test CH		Power Spe	Limit(dBm/3kHz)	Result		
16St Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(dbin/3ki iz)	Nesuit
Lowest	-3.63	-6.44	-6.66	-8.68		
Middle	-3.49	-6.44	-6.61	-9.01	8.00	Pass
Highest	-3.29	-6.28	-6.77	-9.54		

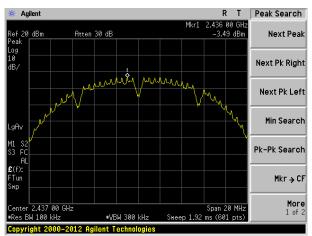


Test plot as follows:

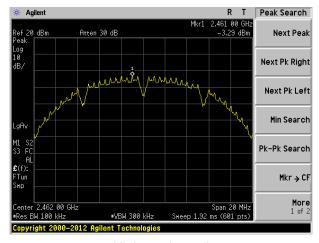
Test mode: 802.11b



Lowest channel



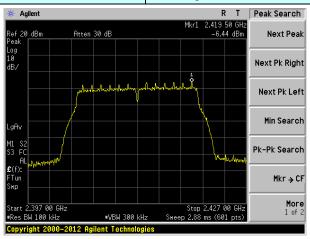
Middle channel



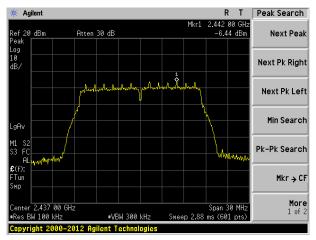
Highest channel



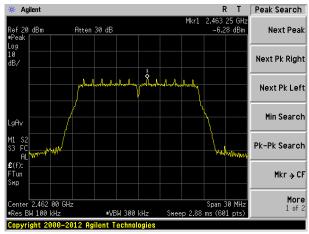
Test mode: 802.11g



Lowest channel



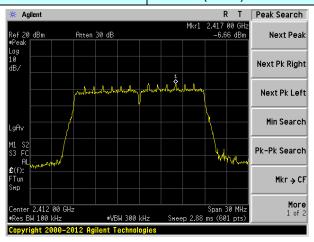
Middle channel



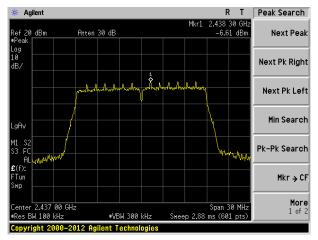
Highest channel



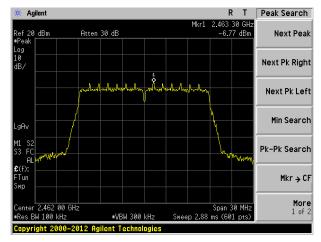
Test mode: 802.11n(HT20)



Lowest channel



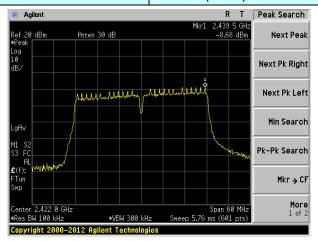
Middle channel



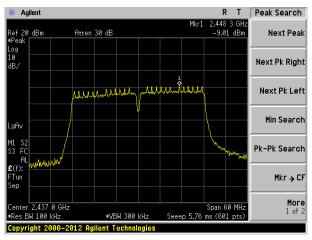
Highest channel



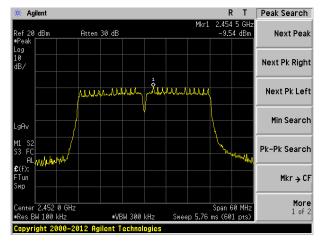
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



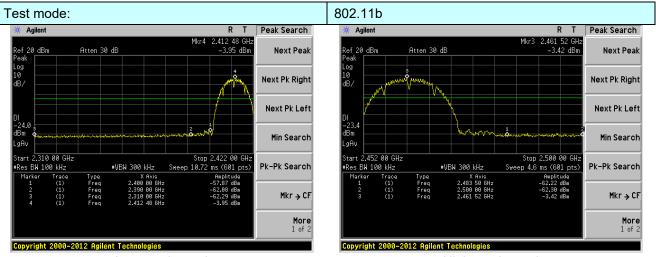
7.6 Band edges

7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					



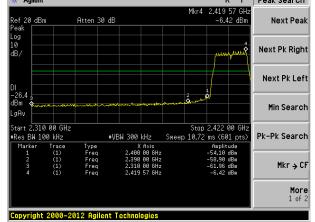
Test plot as follows:



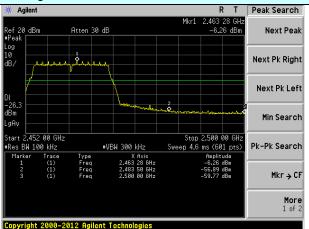
Lowest channel

Highest channel

Test mode: 802.11g ** Agilent R T Peak Search Agilent Mkr4 2.419 57 GHz

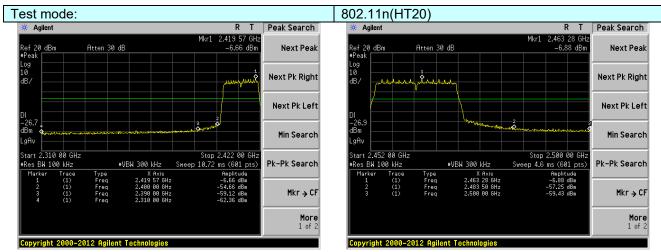


Lowest channel



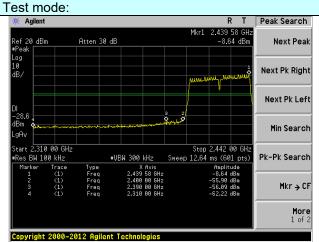
Highest channel



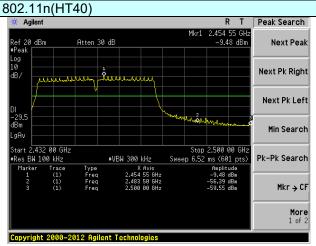


Lowest channel

Highest channel



Lowest channel



Highest channel



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15.209	and 15.205			
Test Method:	ANSI C63.10:2013					
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.					
Test site:	Measurement Distance: 3m					
Receiver setup:	Frequency Detector RBW VBW Valu					
	Above 1GHz	Peak	1MHz	3MHz	Peak	
	Above IGHZ	RMS	1MHz	3MHz	Average	
Limit:	Freque	ncy	Limit (dBuV/		Value	
	Above 1	GHz	54.0		Average	
Test setup:			74.0	0	Peak	
	Turn	3m < 4m		Antenna Tower Horn Antenna Spectrum Analyzer Amplifier		
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 m 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 th 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 cannot 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 value of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis positionin And found the Y axis positioning which it is worse case, only the test 				ce-receiving e-height antenna meters above the strength. Both are set to make the ed to its worst case neter to 4 meters degrees to find anction and OdB lower than degrees to degree to degree to degree to degree to degree to find anction and degree to degree to degree to find anction and degree to degree to find anction and degree to degree to find anction and degree to find anction anction anction and degree to find anction anction and degree to find anction anction anction and degree to find anction anc	
Test Instruments:	Refer to section	ode is recordened for details				
Test mode:	Refer to section	5.3 for details	6			
Test results:	Pass					

Measurement data:

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

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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:	ode: 802.11b		Te	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	51.90	27.59	5.38	34.01	50.86	74.00	-23.14	Horizontal
2400.00	61.00	27.58	5.39	34.01	59.96	74.00	-14.04	Horizontal
2390.00	53.60	27.59	5.38	34.01	52.56	74.00	-21.44	Vertical
2400.00	62.86	27.58	5.39	34.01	61.82	74.00	-12.18	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	38.59	27.59	5.38	34.01	37.55	54.00	-16.45	Horizontal
2400.00	46.91	27.58	5.39	34.01	45.87	54.00	-8.13	Horizontal
2390.00	40.43	27.59	5.38	34.01	39.39	54.00	-14.61	Vertical
2400.00	48.06	27.58	5.39	34.01	47.02	54.00	-6.98	Vertical
Test mode:		802.1	1b	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	52.67	27.53	5.47	33.92	51.75	74.00	-22.25	Horizontal
2500.00	48.41	27.55	5.49	29.93	51.52	74.00	-22.48	Horizontal
2483.50	54.98	27.53	5.47	33.92	54.06	74.00	-19.94	Vertical
2500.00	50.97	27.55	5.49	29.93	54.08	74.00	-19.92	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	38.99	27.53	5.47	33.92	38.07	54.00	-15.93	Horizontal
2500.00	35.05	27.55	5.49	29.93	38.16	54.00	-15.84	Horizontal
2483.50	40.96	27.53	5.47	33.92	40.04	54.00	-13.96	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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Test mode:		802.1	802.11g Test channel:		L	owest		
Peak value:		<u>'</u>		<u>'</u>		<u> </u>		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	50.47	27.59	5.38	34.01	49.43	74.00	-24.57	Horizontal
2400.00	59.08	27.58	5.39	34.01	58.04	74.00	-15.96	Horizontal
2390.00	52.07	27.59	5.38	34.01	51.03	74.00	-22.97	Vertical
2400.00	60.56	27.58	5.39	34.01	59.52	74.00	-14.48	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.57	27.59	5.38	34.01	36.53	54.00	-17.47	Horizontal
2400.00	45.74	27.58	5.39	34.01	44.70	54.00	-9.30	Horizontal
2390.00	39.29	27.59	5.38	34.01	38.25	54.00	-15.75	Vertical
2400.00	46.77	27.58	5.39	34.01	45.73	54.00	-8.27	Vertical
Test mode:		802.1	1g	Te	st channel:	ŀ	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	50.62	27.53	5.47	33.92	49.70	74.00	-24.30	Horizontal
2500.00	46.82	27.55	5.49	29.93	49.93	74.00	-24.07	Horizontal
2483.50	52.63	27.53	5.47	33.92	51.71	74.00	-22.29	Vertical
2500.00	49.11	27.55	5.49	29.93	52.22	74.00	-21.78	Vertical
Average va	lue:				_			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.76	27.53	5.47	33.92	36.84	54.00	-17.16	Horizontal
2500.00	34.08	27.55	5.49	29.93	37.19	54.00	-16.81	Horizontal
2483.50	39.60	27.53	5.47	33.92	38.68	54.00	-15.32	Vertical
2500.00	35.92	27.55	5.49	29.93	39.03	54.00	-14.97	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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Test mode:

Report No.: GTS16000370E01

Lowest

Read					*		
Read							
Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
50.55	27.59	5.38	34.01	49.51	74.00	-24.49	Horizontal
59.19	27.58	5.39	34.01	58.15	74.00	-15.85	Horizontal
52.15	27.59	5.38	34.01	51.11	74.00	-22.89	Vertical
60.69	27.58	5.39	34.01	59.65	74.00	-14.35	Vertical
lue:							
Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
37.63	27.59	5.38	34.01	36.59	54.00	-17.41	Horizontal
45.80	27.58	5.39	34.01	44.76	54.00	-9.24	Horizontal
39.36	27.59	5.38	34.01	38.32	54.00	-15.68	Vertical
46.84	27.58	5.39	34.01	45.80	54.00	-8.20	Vertical
	802.1	1n(HT20)	Tes	st channel:	F	lighest	
	· · · · · · · · · · · · · · · · · · ·			T			T
Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
50.73	27.53	5.47	33.92	49.81	74.00	-24.19	Horizontal
46.91	27.55	5.49	29.93	50.02	74.00	-23.98	Horizontal
52.77	27.53	5.47	33.92	51.85	74.00	-22.15	Vertical
49.21	27.55	5.49	29.93	52.32	74.00	-21.68	Vertical
lue:				1			1
Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
		5.47	33.92	36.90	54.00	-17.10	Horizontal
37.82	27.53	5.47					
37.82 34.14	27.53 27.55	5.49	29.93	37.25	54.00	-16.75	Horizontal
				37.25 38.75	54.00 54.00	-16.75 -15.25	
	59.19 52.15 60.69 lue: Read Level (dBuV) 37.63 45.80 39.36 46.84 Read Level (dBuV) 50.73 46.91 52.77 49.21 lue: Read	59.19 27.58 52.15 27.59 60.69 27.58 Iue: Read Level (dBuV) Antenna Factor (dB/m) 37.63 27.59 45.80 27.58 39.36 27.59 46.84 27.58 802.1 Read Level (dBw) Antenna Factor (dB/m) 50.73 27.53 46.91 27.55 52.77 27.53 49.21 27.55 Iue: Read Antenna	59.19 27.58 5.39 52.15 27.59 5.38 60.69 27.58 5.39 Iue: Read Level (dBuV) Antenna Factor (dB/m) Cable Loss (dB/m) (dB/m) (dB) 37.63 27.59 5.38 45.80 27.58 5.39 39.36 27.59 5.38 46.84 27.58 5.39 802.11n(HT20) Read Level (dB/m) Cable Loss (dB/m) (dB/m) (dB) 50.73 27.53 5.47 46.91 27.55 5.49 52.77 27.53 5.47 49.21 27.55 5.49 Iue: Read Antenna Cable	59.19 27.58 5.39 34.01 52.15 27.59 5.38 34.01 60.69 27.58 5.39 34.01 Iue: Read Level (dBuV) Antenna Cable Loss (dBm) Preamp Factor (dBm) (dBwV) (dBm) (dBm) 34.01 45.80 27.58 5.39 34.01 39.36 27.59 5.38 34.01 46.84 27.58 5.39 34.01 Read Level (dBwV) Cable Factor Loss (dBwW) Factor (dBwW) </td <td>59.19 27.58 5.39 34.01 58.15 52.15 27.59 5.38 34.01 51.11 60.69 27.58 5.39 34.01 59.65 lue: Read Level (dBuV) Antenna Factor (dB/m) Cable Loss (dB) Preamp Factor (dBuV/m) Level (dBuV/m) 37.63 27.59 5.38 34.01 36.59 45.80 27.58 5.39 34.01 44.76 39.36 27.59 5.38 34.01 38.32 46.84 27.58 5.39 34.01 45.80 Read Level (dB/m) (dB/m) (dB) (dB) Test channel: Read Level (dB/m) (dB) Level (dBuV/m) 50.73 27.53 5.47 33.92 49.81 46.91 27.55 5.49 29.93 50.02 52.77 27.53 5.47 33.92 51.85 49.21 27.55 5.49 29.93 52.32 Iue:</td> <td>59.19 27.58 5.39 34.01 58.15 74.00 52.15 27.59 5.38 34.01 51.11 74.00 60.69 27.58 5.39 34.01 59.65 74.00 Iue: Read Level (dBuV) Antenna Factor (dB/m) Cable Loss (dB) Preamp Factor (dBuV/m) Level (dBuV/m) Limit Line (dBuV/m) 37.63 27.59 5.38 34.01 36.59 54.00 45.80 27.58 5.39 34.01 44.76 54.00 39.36 27.59 5.38 34.01 38.32 54.00 46.84 27.58 5.39 34.01 45.80 54.00 Read Level (dB/m) Loss (dB/m) Factor (dB/m) Level (dB/m) Limit Line (dBuV/m) 60.73 27.53 5.47 33.92 49.81 74.00 50.73 27.55 5.49 29.93 50.02 74.00 52.77 27.53 5.47 33.92 51.85 74.00</td> <td>59.19 27.58 5.39 34.01 58.15 74.00 -15.85 52.15 27.59 5.38 34.01 51.11 74.00 -22.89 60.69 27.58 5.39 34.01 59.65 74.00 -14.35 Iue: Read Level (dBuV) Antenna Loss (dB) Cable Loss (dB) Preamp Factor (dBuV/m) Level (dBuV/m) Limit Line (dBuV/m) Over Limit (dB) 37.63 27.59 5.38 34.01 36.59 54.00 -17.41 45.80 27.58 5.39 34.01 44.76 54.00 -9.24 39.36 27.59 5.38 34.01 38.32 54.00 -15.68 46.84 27.58 5.39 34.01 45.80 54.00 -8.20 Read Level (dBuV) Level (dBuV/m) Level (dBuV/m) Level (dBuV/m) Over Limit Line (dBuV/m) (dB) 7.53 5.47 33.92 49.81 74.00 -24.19 46.91 27.55 5.49 <t< td=""></t<></td>	59.19 27.58 5.39 34.01 58.15 52.15 27.59 5.38 34.01 51.11 60.69 27.58 5.39 34.01 59.65 lue: Read Level (dBuV) Antenna Factor (dB/m) Cable Loss (dB) Preamp Factor (dBuV/m) Level (dBuV/m) 37.63 27.59 5.38 34.01 36.59 45.80 27.58 5.39 34.01 44.76 39.36 27.59 5.38 34.01 38.32 46.84 27.58 5.39 34.01 45.80 Read Level (dB/m) (dB/m) (dB) (dB) Test channel: Read Level (dB/m) (dB) Level (dBuV/m) 50.73 27.53 5.47 33.92 49.81 46.91 27.55 5.49 29.93 50.02 52.77 27.53 5.47 33.92 51.85 49.21 27.55 5.49 29.93 52.32 Iue:	59.19 27.58 5.39 34.01 58.15 74.00 52.15 27.59 5.38 34.01 51.11 74.00 60.69 27.58 5.39 34.01 59.65 74.00 Iue: Read Level (dBuV) Antenna Factor (dB/m) Cable Loss (dB) Preamp Factor (dBuV/m) Level (dBuV/m) Limit Line (dBuV/m) 37.63 27.59 5.38 34.01 36.59 54.00 45.80 27.58 5.39 34.01 44.76 54.00 39.36 27.59 5.38 34.01 38.32 54.00 46.84 27.58 5.39 34.01 45.80 54.00 Read Level (dB/m) Loss (dB/m) Factor (dB/m) Level (dB/m) Limit Line (dBuV/m) 60.73 27.53 5.47 33.92 49.81 74.00 50.73 27.55 5.49 29.93 50.02 74.00 52.77 27.53 5.47 33.92 51.85 74.00	59.19 27.58 5.39 34.01 58.15 74.00 -15.85 52.15 27.59 5.38 34.01 51.11 74.00 -22.89 60.69 27.58 5.39 34.01 59.65 74.00 -14.35 Iue: Read Level (dBuV) Antenna Loss (dB) Cable Loss (dB) Preamp Factor (dBuV/m) Level (dBuV/m) Limit Line (dBuV/m) Over Limit (dB) 37.63 27.59 5.38 34.01 36.59 54.00 -17.41 45.80 27.58 5.39 34.01 44.76 54.00 -9.24 39.36 27.59 5.38 34.01 38.32 54.00 -15.68 46.84 27.58 5.39 34.01 45.80 54.00 -8.20 Read Level (dBuV) Level (dBuV/m) Level (dBuV/m) Level (dBuV/m) Over Limit Line (dBuV/m) (dB) 7.53 5.47 33.92 49.81 74.00 -24.19 46.91 27.55 5.49 <t< td=""></t<>

Test channel:

802.11n(HT20)

Remark.

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^{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.: GTS16000370E01

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	49.75	27.59	5.38	34.01	48.71	74.00	-25.29	Horizontal
2400.00	58.13	27.58	5.39	34.01	57.09	74.00	-16.91	Horizontal
2390.00	51.30	27.59	5.38	34.01	50.26	74.00	-23.74	Vertical
2400.00	59.41	27.58	5.39	34.01	58.37	74.00	-15.63	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.06	27.59	5.38	34.01	36.02	54.00	-17.98	Horizontal
2400.00	45.15	27.58	5.39	34.01	44.11	54.00	-9.89	Horizontal
2390.00	38.73	27.59	5.38	34.01	37.69	54.00	-16.31	Vertical
2400.00	46.13	27.58	5.39	34.01	45.09	54.00	-8.91	Vertical
Test mode:		000.4	4 · /LIT40\	_				
Test mode.		802.1	1n(HT40)	le	st channel:	F	lighest	
Peak value:	:	802.1	1n(H14U)	le	st channel:		lighest	
	: Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
Peak value:	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Polarization Horizontal
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)	
Peak value: Frequency (MHz) 2483.50	Read Level (dBuV) 49.59	Antenna Factor (dB/m) 27.53	Cable Loss (dB) 5.47	Preamp Factor (dB) 33.92	Level (dBuV/m) 48.67	Limit Line (dBuV/m) 74.00	Over Limit (dB)	Horizontal
Peak value: Frequency (MHz) 2483.50 2500.00	Read Level (dBuV) 49.59 46.03	Antenna Factor (dB/m) 27.53 27.55	Cable Loss (dB) 5.47 5.49	Preamp Factor (dB) 33.92 29.93	Level (dBuV/m) 48.67 49.14	Limit Line (dBuV/m) 74.00 74.00	Over Limit (dB) -25.33 -24.86	Horizontal Horizontal
Peak value: Frequency (MHz) 2483.50 2500.00 2483.50	Read Level (dBuV) 49.59 46.03 51.46 48.18	Antenna 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) 48.67 49.14 50.54	Limit Line (dBuV/m) 74.00 74.00 74.00	Over Limit (dB) -25.33 -24.86 -23.46	Horizontal Horizontal Vertical
Peak value: Frequency (MHz) 2483.50 2500.00 2483.50 2500.00	Read Level (dBuV) 49.59 46.03 51.46 48.18	Antenna 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) 48.67 49.14 50.54	Limit Line (dBuV/m) 74.00 74.00 74.00	Over Limit (dB) -25.33 -24.86 -23.46	Horizontal Horizontal Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va	Read Level (dBuV) 49.59 46.03 51.46 48.18 Iue:	Antenna Factor (dB/m) 27.53 27.55 27.53 27.55	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) 48.67 49.14 50.54 51.29	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Contract the contract of the contr	Over Limit (dB) -25.33 -24.86 -23.46 -22.71 Over Limit	Horizontal Horizontal Vertical Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz)	Read Level (dBuV) 49.59 46.03 51.46 48.18 Iue: Read Level (dBuV)	Antenna Factor (dB/m) 27.53 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) 48.67 49.14 50.54 51.29 Level (dBuV/m)	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	Over Limit (dB) -25.33 -24.86 -23.46 -22.71 Over Limit (dB)	Horizontal Horizontal Vertical Vertical Polarization
Peak value: Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50	Read Level (dBuV) 49.59 46.03 51.46 48.18 Iue: Read Level (dBuV) 37.14	Antenna Factor (dB/m) 27.53 27.55 27.53 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) 48.67 49.14 50.54 51.29 Level (dBuV/m)	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	Over Limit (dB) -25.33 -24.86 -23.46 -22.71 Over Limit (dB) -17.78	Horizontal Horizontal Vertical Vertical Polarization Horizontal
Peak value: Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50 2500.00	Read Level (dBuV) 49.59 46.03 51.46 48.18 Iue: Read Level (dBuV) 37.14 33.60	Antenna Factor (dB/m) 27.53 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) 48.67 49.14 50.54 51.29 Level (dBuV/m) 36.22 36.71	Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Cimit Line (dBuV/m) 54.00 54.00	Over Limit (dB) -25.33 -24.86 -23.46 -22.71 Over Limit (dB) -17.78 -17.29	Horizontal Horizontal Vertical Vertical Polarization Horizontal Horizontal

Test channel:

802.11n(HT40)

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^{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.



7.7 Spurious Emission

7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 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					



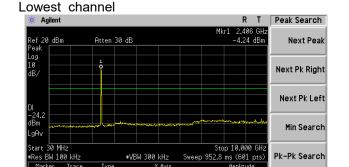
Test plot as follows:

Test mode:

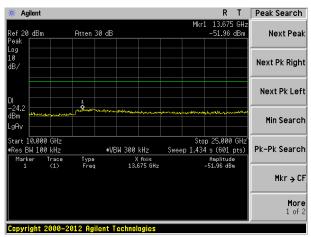
802.11b

Mkr → CF

More 1 of 2

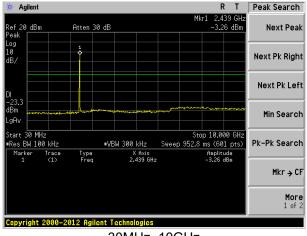


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30MHz~10GHz

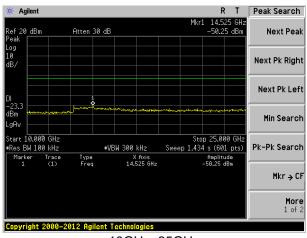


10GHz~25GHz

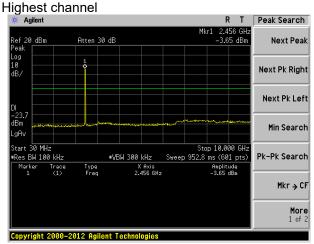
Middle channel



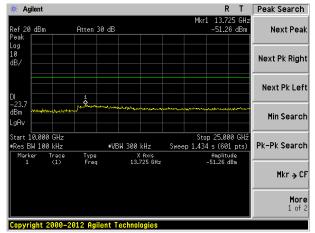
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz

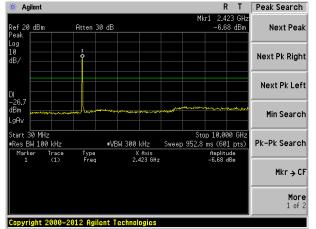
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Test mode:

802.11g

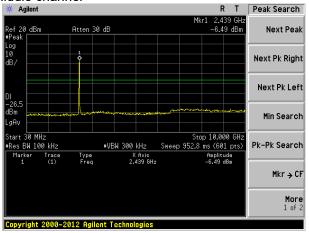
Lowest channel



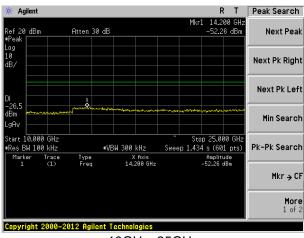
30MHz~10GHz

10GHz~25GHz

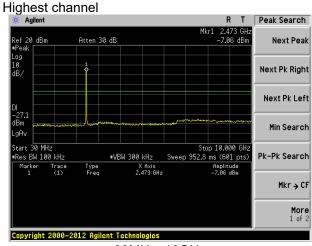
Middle channel



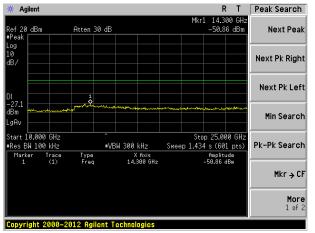
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz

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R T Peak Search

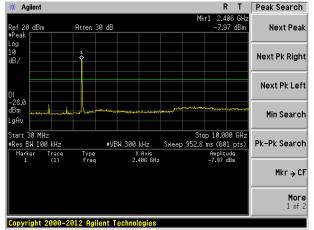
More 1 of 2

Test mode:

802.11n(HT20)

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Lowest channel

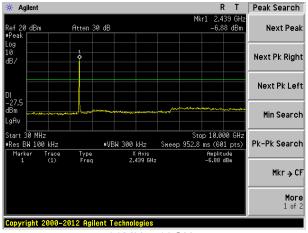


30MHz~10GHz

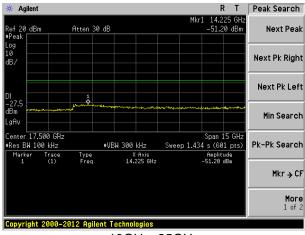
10GHz~25GHz

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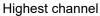
Middle channel

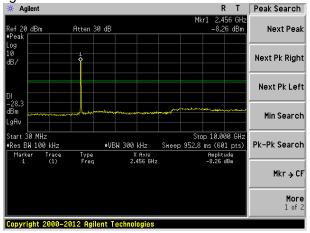


30MHz~10GHz

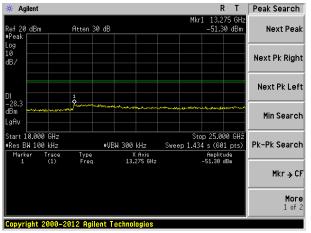


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

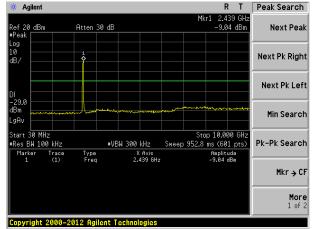
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Test mode:

802.11n(HT40)

Lowest channel

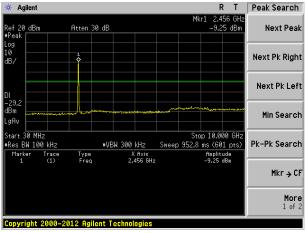


30MHz~10GHz

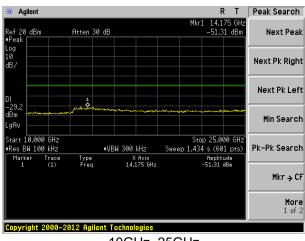
R T Peak Search 14.350 GHz -50.58 dBm Atten 30 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH: Sweep 1.434 s (601 pts) #VBW 300 kHz Pk-Pk Search ■Res BW 100 kHz X Axis 14.350 GHz Amplitude -50.58 dBm Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

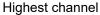
Middle channel

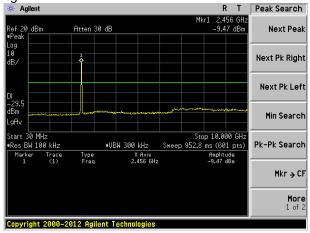


30MHz~10GHz

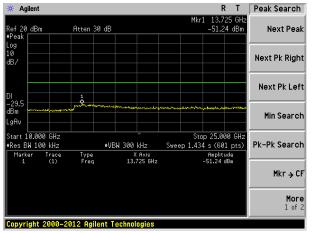


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

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7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209									
Test Method:	ANSI C63.10:201	13								
Test Frequency Range:	30MHz to 25GHz	30MHz to 25GHz								
Test site:	Measurement Distance: 3m									
Receiver setup:	Frequency	Detector	RBW	VBW	Value					
	30MHz-1GHz	30MHz-1GHz Quasi-peak 120KHz 300KHz Peak 1MHz 3MHz								
	Above 1CHz	Above 1GHz Peak 1MHz 3MHz Pea RMS 1MHz 3MHz Average								
	Above 1G112	RMS 1MHz 3MHz Ave								
Limit:	Frequen	Frequency Limit (dBuV/m @3m) Value								
	30MHz-88	MHz	40.0	0	Quasi-peak					
	88MHz-216	88MHz-216MHz 43.50 Quasi-peak								
	216MHz-96	216MHz-960MHz 46.00 Quasi-peak								
	960MHz-1	960MHz-1GHz 54.00 Quasi-peak								
	Abovo 10	54.00 Average								
	Above 10	Above 1GHz 74.00 Peak								
	Ground Plane Above 1GHz Turn Table Turn Table 1.5	4m		Antenna Tower Search Antenna RF Test Receiver Antenna Tower Horn Antenna Spectrum Analyzer						

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Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
	7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.



Measurement Data

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
49.53	44.31	15.28	0.77	30.00	30.36	40.00	-9.64	Vertical
89.91	47.25	13.90	1.11	29.75	32.51	43.50	-10.99	Vertical
180.02	55.75	11.68	1.74	29.27	39.90	43.50	-3.60	Vertical
300.37	52.29	15.06	2.36	29.99	39.72	46.00	-6.28	Vertical
455.91	49.91	17.58	3.11	29.38	41.22	46.00	-4.78	Vertical
645.12	39.65	20.61	3.89	29.25	34.90	46.00	-11.10	Vertical
59.86	44.88	14.71	0.86	29.92	30.53	40.00	-9.47	Horizontal
148.44	56.45	10.25	1.56	29.41	38.85	43.50	-4.65	Horizontal
210.05	54.11	12.87	1.90	29.30	39.58	43.50	-3.92	Horizontal
284.98	53.88	14.75	2.29	29.90	41.02	46.00	-4.98	Horizontal
455.91	50.86	17.58	3.11	29.38	42.17	46.00	-3.83	Horizontal
842.13	43.39	22.51	4.63	29.16	41.37	46.00	-4.63	Horizontal



Above 1GHz

Test mode:		802.11b		Test	channel:	Lowe	est	
Peak value:						<u>'</u>		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.80	31.79	8.62	32.10	49.11	74.00	-24.89	Vertical
7236.00	34.54	36.19	11.68	31.97	50.44	74.00	-23.56	Vertical
9648.00	32.94	38.07	14.16	31.56	53.61	74.00	-20.39	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.39	31.79	8.62	32.10	47.70	74.00	-26.30	Horizontal
7236.00	34.25	36.19	11.68	31.97	50.15	74.00	-23.85	Horizontal
9648.00	32.50	38.07	14.16	31.56	53.17	74.00	-20.83	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.84	31.79	8.62	32.10	38.15	54.00	-15.85	Vertical
7236.00	23.40	36.19	11.68	31.97	39.30	54.00	-14.70	Vertical
9648.00	23.28	38.07	14.16	31.56	43.95	54.00	-10.05	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.90	31.79	8.62	32.10	37.21	54.00	-16.79	Horizontal
7236.00	22.82	36.19	11.68	31.97	38.72	54.00	-15.28	Horizontal
9648.00	22.24	38.07	14.16	31.56	42.91	54.00	-11.09	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

Project No.: GTS16000370

^{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	39.77	31.85	8.66	32.12	48.16	74.00	-25.84	Vertical
7311.00	34.55	36.37	11.71	31.91	50.72	74.00	-23.28	Vertical
9748.00	33.92	38.27	14.25	31.56	54.88	74.00	-19.12	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.18	31.85	8.66	32.12	48.57	74.00	-25.43	Horizontal
7311.00	33.16	36.37	11.71	31.91	49.33	74.00	-24.67	Horizontal
9748.00	33.80	38.27	14.25	31.56	54.76	74.00	-19.24	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	30.59	31.85	8.66	32.12	38.98	54.00	-15.02	Vertical
7311.00	22.86	36.37	11.71	31.91	39.03	54.00	-14.97	Vertical
9748.00	23.17	38.27	14.25	31.56	44.13	54.00	-9.87	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.27	31.85	8.66	32.12	38.66	54.00	-15.34	Horizontal
7311.00	22.24	36.37	11.71	31.91	38.41	54.00	-15.59	Horizontal
9748.00	23.51	38.27	14.25	31.56	44.47	54.00	-9.53	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:		802.11b		Test	channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	45.60	31.90	8.70	32.15	54.05	74.00	-19.95	Vertical
7386.00	35.42	36.49	11.76	31.83	51.84	74.00	-22.16	Vertical
9848.00	37.35	38.62	14.31	31.77	58.51	74.00	-15.49	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.80	31.90	8.70	32.15	53.25	74.00	-20.75	Horizontal
7386.00	34.27	36.49	11.76	31.83	50.69	74.00	-23.31	Horizontal
9848.00	33.50	38.62	14.31	31.77	54.66	74.00	-19.34	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	36.46	31.90	8.70	32.15	44.91	54.00	-9.09	Vertical
7386.00	25.32	36.49	11.76	31.83	41.74	54.00	-12.26	Vertical
9848.00	25.84	38.62	14.31	31.77	47.00	54.00	-7.00	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	35.12	31.90	8.70	32.15	43.57	54.00	-10.43	Horizontal
7386.00	23.64	36.49	11.76	31.83	40.06	54.00	-13.94	Horizontal
9848.00	22.75	38.62	14.31	31.77	43.91	54.00	-10.09	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:	lowe	st	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.11	31.79	8.62	32.10	48.42	74.00	-25.58	Vertical
7236.00	34.10	36.19	11.68	31.97	50.00	74.00	-24.00	Vertical
9648.00	32.63	38.07	14.16	31.56	53.30	74.00	-20.70	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.81	31.79	8.62	32.10	47.12	74.00	-26.88	Horizontal
7236.00	33.87	36.19	11.68	31.97	49.77	74.00	-24.23	Horizontal
9648.00	32.22	38.07	14.16	31.56	52.89	74.00	-21.11	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.21	31.79	8.62	32.10	37.52	54.00	-16.48	Vertical
7236.00	22.98	36.19	11.68	31.97	38.88	54.00	-15.12	Vertical
9648.00	22.98	38.07	14.16	31.56	43.65	54.00	-10.35	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	28.36	31.79	8.62	32.10	36.67	54.00	-17.33	Horizontal
7236.00	22.45	36.19	11.68	31.97	38.35	54.00	-15.65	Horizontal
9648.00	21.97	38.07	14.16	31.56	42.64	54.00	-11.36	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:		802.11g		Te	st channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	1 1 6061	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.20	31.85	8.66	32.12	47.59	74.00	-26.41	Vertical
7311.00	34.20	36.37	11.71	31.91	50.37	74.00	-23.63	Vertical
9748.00	33.66	38.27	14.25	31.56	54.62	74.00	-19.38	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.70	31.85	8.66	32.12	48.09	74.00	-25.91	Horizontal
7311.00	32.85	36.37	11.71	31.91	49.02	74.00	-24.98	Horizontal
9748.00	33.56	38.27	14.25	31.56	54.52	74.00	-19.48	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val			T	1		1	T	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	1 1 41/41	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.07	31.85	8.66	32.12	38.46	54.00	-15.54	Vertical
7311.00	22.51	36.37	11.71	31.91	38.68	54.00	-15.32	Vertical
9748.00	22.92	38.27	14.25	31.56	43.88	54.00	-10.12	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.82	31.85	8.66	32.12	38.21	54.00	-15.79	Horizontal
7311.00	21.94	36.37	11.71	31.91	38.11	54.00	-15.89	Horizontal
9748.00	23.28	38.27	14.25	31.56	44.24	54.00	-9.76	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		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	44.62	31.90	8.70	32.15	53.07	74.00	-20.93	Vertical
7386.00	34.80	36.49	11.76	31.83	51.22	74.00	-22.78	Vertical
9848.00	36.91	38.62	14.31	31.77	58.07	74.00	-15.93	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.97	31.90	8.70	32.15	52.42	74.00	-21.58	Horizontal
7386.00	33.72	36.49	11.76	31.83	50.14	74.00	-23.86	Horizontal
9848.00	33.09	38.62	14.31	31.77	54.25	74.00	-19.75	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	35.56	31.90	8.70	32.15	44.01	54.00	-9.99	Vertical
7386.00	24.72	36.49	11.76	31.83	41.14	54.00	-12.86	Vertical
9848.00	25.42	38.62	14.31	31.77	46.58	54.00	-7.42	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.34	31.90	8.70	32.15	42.79	54.00	-11.21	Horizontal
7386.00	23.12	36.49	11.76	31.83	39.54	54.00	-14.46	Horizontal
9848.00	22.35	38.62	14.31	31.77	43.51	54.00	-10.49	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(F	IT20)	Test	channel:	Lowe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	39.91	31.79	8.62	32.10	48.22	74.00	-25.78	Vertical
7236.00	33.98	36.19	11.68	31.97	49.88	74.00	-24.12	Vertical
9648.00	32.54	38.07	14.16	31.56	53.21	74.00	-20.79	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.64	31.79	8.62	32.10	46.95	74.00	-27.05	Horizontal
7236.00	33.76	36.19	11.68	31.97	49.66	74.00	-24.34	Horizontal
9648.00	32.13	38.07	14.16	31.56	52.80	74.00	-21.20	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.03	31.79	8.62	32.10	37.34	54.00	-16.66	Vertical
7236.00	22.85	36.19	11.68	31.97	38.75	54.00	-15.25	Vertical
9648.00	22.89	38.07	14.16	31.56	43.56	54.00	-10.44	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.20	31.79	8.62	32.10	36.51	54.00	-17.49	Horizontal
7236.00	22.34	36.19	11.68	31.97	38.24	54.00	-15.76	Horizontal
9648.00	21.89	38.07	14.16	31.56	42.56	54.00	-11.44	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	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	39.03	31.85	8.66	32.12	47.42	74.00	-26.58	Vertical
7311.00	34.09	36.37	11.71	31.91	50.26	74.00	-23.74	Vertical
9748.00	33.59	38.27	14.25	31.56	54.55	74.00	-19.45	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.56	31.85	8.66	32.12	47.95	74.00	-26.05	Horizontal
7311.00	32.76	36.37	11.71	31.91	48.93	74.00	-25.07	Horizontal
9748.00	33.49	38.27	14.25	31.56	54.45	74.00	-19.55	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	29.91	31.85	8.66	32.12	38.30	54.00	-15.70	Vertical
7311.00	22.41	36.37	11.71	31.91	38.58	54.00	-15.42	Vertical
9748.00	22.85	38.27	14.25	31.56	43.81	54.00	-10.19	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.69	31.85	8.66	32.12	38.08	54.00	-15.92	Horizontal
7311.00	21.85	36.37	11.71	31.91	38.02	54.00	-15.98	Horizontal
9748.00	23.21	38.27	14.25	31.56	44.17	54.00	-9.83	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	44.34	31.90	8.70	32.15	52.79	74.00	-21.21	Vertical
7386.00	34.62	36.49	11.76	31.83	51.04	74.00	-22.96	Vertical
9848.00	36.78	38.62	14.31	31.77	57.94	74.00	-16.06	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.73	31.90	8.70	32.15	52.18	74.00	-21.82	Horizontal
7386.00	33.56	36.49	11.76	31.83	49.98	74.00	-24.02	Horizontal
9848.00	32.97	38.62	14.31	31.77	54.13	74.00	-19.87	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val			,				,	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	35.29	31.90	8.70	32.15	43.74	54.00	-10.26	Vertical
7386.00	24.55	36.49	11.76	31.83	40.97	54.00	-13.03	Vertical
9848.00	25.29	38.62	14.31	31.77	46.45	54.00	-7.55	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.12	31.90	8.70	32.15	42.57	54.00	-11.43	Horizontal
7386.00	22.96	36.49	11.76	31.83	39.38	54.00	-14.62	Horizontal
9848.00	22.24	38.62	14.31	31.77	43.40	54.00	-10.60	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(HT40)			Test channel:			Lowe	st	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fac	amp ctor B)	Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4844.00	38.73	31.81	8.63	32.11		47.06	74.00		-26.94	Vertical
7266.00	33.23	36.28	11.69	31.94		49.26	74.00		-24.74	Vertical
9688.00	32.01	38.13	14.21	31.52		52.83	74.00		-21.17	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	37.65	31.81	8.63	32.11		45.98	74.	00	-28.02	Horizontal
7266.00	33.11	36.28	11.69	31.94		49.14	74.	00	-24.86	Horizontal
9688.00	31.64	38.13	14.21	31.52		52.46	74.	00	-21.54	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal

Average value:

Average var								
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	27.94	31.81	8.63	32.11	36.27	54.00	-17.73	Vertical
7266.00	22.13	36.28	11.69	31.94	38.16	54.00	-15.84	Vertical
9688.00	22.38	38.13	14.21	31.52	43.20	54.00	-10.80	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.27	31.81	8.63	32.11	35.60	54.00	-18.40	Horizontal
7266.00	21.71	36.28	11.69	31.94	37.74	54.00	-16.26	Horizontal
9688.00	21.41	38.13	14.21	31.52	42.23	54.00	-11.77	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	38.06	31.85	8.66	32.12		46.45	74.0	00	-27.55	Vertical
7311.00	33.47	36.37	11.71	31	.91	49.64	74.0	00	-24.36	Vertical
9748.00	33.15	38.27	14.25	31.56		54.11	74.00		-19.89	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	38.74	31.85	8.66	32.12		47.13	74.00		-26.87	Horizontal
7311.00	32.22	36.37	11.71	31	.91	48.39	74.0	00	-25.61	Horizontal
9748.00	33.08	38.27	14.25	31.56		54.04	74.00		-19.96	Horizontal
12185.00	*						74.0	00		Horizontal
14622.00	*						74.0	00		Horizontal
17059.00	*						74.0	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	29.01	31.85	8.66	32	.12	37.40	54.0	00	-16.60	Vertical
7311.00	21.82	36.37	11.71	31	.91	37.99	54.0	00	-16.01	Vertical
9748.00	22.43	38.27	14.25	31	.56	43.39	54.0	00	-10.61	Vertical
12185.00	*						54.0	00		Vertical
14622.00	*						54.0	00		Vertical
17059.00	*						54.0	00		Vertical
4874.00	28.92	31.85	8.66	32.12		37.31	54.0	00	-16.69	Horizontal
7311.00	21.33	36.37	11.71	31	.91	37.50	54.0	00	-16.50	Horizontal
9748.00	22.82	38.27	14.25	31	.56	43.78	54.0	00	-10.22	Horizontal
12185.00	*						54.0	00		Horizontal
14622.00	*						54.0	00		Horizontal
17059.00	*						54.0	00		Horizontal

Remark:

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

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



Test mode:		802.11n(H	IT40)	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
4904.00	42.66	31.88	8.68	32.13	51.09	74.00	-22.91	Vertical
7356.00	33.56	36.45	11.75	31.86	49.90	74.00	-24.10	Vertical
9808.00	36.02	38.43	14.29	31.68	57.06	74.00	-16.94	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	42.31	31.88	8.68	32.13	50.74	74.00	-23.26	Horizontal
7356.00	32.64	36.45	11.75	31.86	48.98	74.00	-25.02	Horizontal
9808.00	32.27	38.43	14.29	31.68	53.31	74.00	-20.69	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val								•
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	33.75	31.88	8.68	32.13	42.18	54.00	-11.82	Vertical
7356.00	23.52	36.45	11.75	31.86	39.86	54.00	-14.14	Vertical
9808.00	24.57	38.43	14.29	31.68	45.61	54.00	-8.39	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	32.79	31.88	8.68	32.13	41.22	54.00	-12.78	Horizontal
7356.00	22.06	36.45	11.75	31.86	38.40	54.00	-15.60	Horizontal
9808.00	21.57	38.43	14.29	31.68	42.61	54.00	-11.39	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

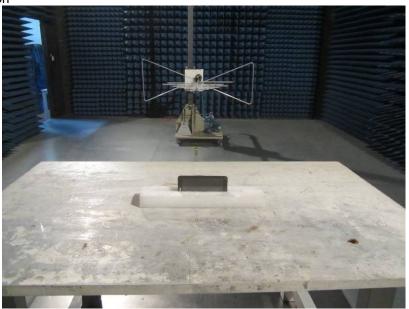
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

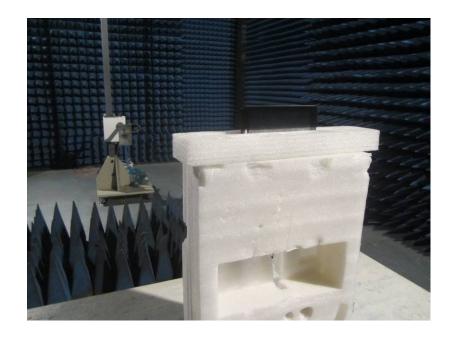
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







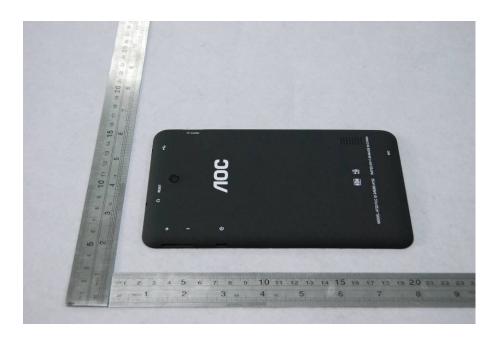
Conducted Emission





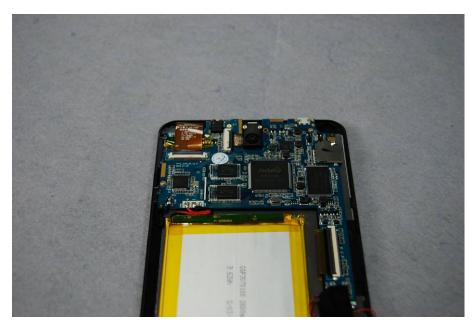
9 EUT Constructional Details





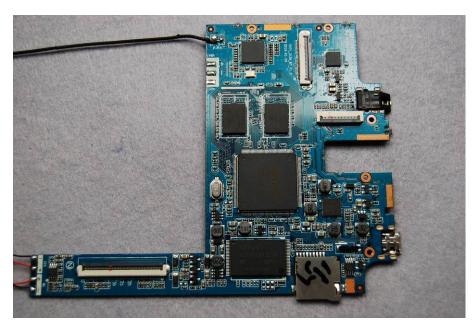




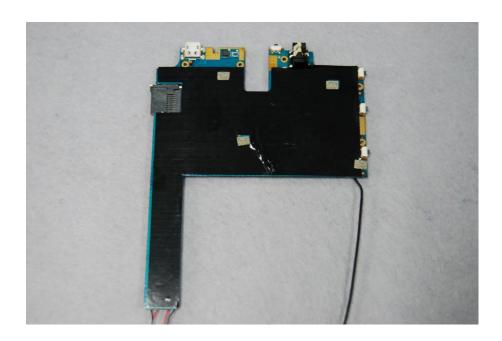


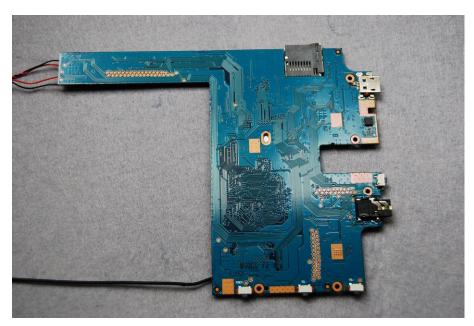


















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