

Global United Technology Services Co., Ltd.

Report No.: GTSE14060100301

FCC REPORT

Applicant: Cloud Antenne Services Sarl

Address of Applicant: Route de la Corniche 2,1066 Epalinges, Switzerland

Equipment Under Test (EUT)

Product Name: Android OTT Box

Model No.: LN-5000II

Trade Mark: maaxTV

FCC ID: 2AC39LN5000II

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

Date of sample receipt: June 04, 2014

Date of Test: July 08-10, 2014

Date of report issued: December 12, 2014

Test Result: PASS *

Authorized Signature:

Laboratory Manager

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

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



Version 2

Version No.	Date	Description
00	December 12, 2014	Original

Prepared By:	Edward.Pan	Date:	December 12, 2014	
	Project Engineer			
Check By:	hank yar.	Date:	December 12, 2014	
	Reviewer			



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Shenzhen, China 518102



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.



5 General Information

5.1 Client Information

Applicant:	Cloud Antenne Services Sarl	
Address of Applicant:	Route de la Corniche 2,1066 Epalinges, Switzerland	
Manufacturer:	Cloud Antenne Services Sarl	
Address of Manufacturer:	Route de la Corniche 2,1066 Epalinges, Switzerland	
Factory:	SHENZHEN GIEC ELECTRIC MANUFACTORY CO.,LTD.	
Address of Factory:	No.1 Building, Factory, No.7 District, Dayang Development Areas, FuYong Street, Baoan, Shenzhen, Guangdong, China	

5.2 General Description of EUT

Product Name:	Android OTT Box	
Model No.:	LN-5000II	
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.:FJ-SW1260502000DN	
	Input: AC 100-240V, 50/60Hz, 0.4A max.	
	Output: DC 5.0V, 2000mA	



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

Note:

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

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

5.3 Test mode

p the EUT in continuously transmitting mode(duty cycle>98%)	Transmitting mode
p the EUT in continuously transmitting mode(duty cycle>98%)	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

Manufacturer	Description	Model	Serial Number	FCC Approval
PHILIPS	LCD TV	19PFL3120/T3	AU1A1212002906	FCC DoC

Remark:The product of FCC ID:2AC39LN5000II with model No.LN-5000II is electrical identical with the original product of FCC ID: 2AC39HD509NII with Model No.: HD509NII ,The only difference is model No and FCC ID number .

So the data of the report GTSE140601003RF is same as original report of FCC ID: 2AC39HD509NII Report No.: GTSE14060097901.



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)

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.

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

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. 28 2014	Mar. 27 2015	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Dec. 5, 2013	Dec. 4, 2014	
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 01 2014	Jun. 30, 2015	
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 23 2014	Feb. 22 2015	
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015	
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 28 2014	Mar. 27 2015	
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 29 2014	Mar. 28 2015	
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 29 2014	Mar. 28 2015	
11	Coaxial cable	GTS	N/A	GTS210	Mar. 29 2014	Mar. 28 2015	
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 29 2014	Mar. 28 2015	
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 01 2014	Jun. 30, 2015	
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 01 2014	Jun. 30, 2015	
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015	
16	Band filter	Amindeon	82346	GTS219	Mar. 29 2014	Mar. 28 2015	

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 2014	
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 01 2014	Jun. 30, 2015	
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 01 2014	Jun. 30, 2015	
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jul. 01 2014	Jun. 30, 2015	
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 01 2014	Jun. 30, 2015	
6	Coaxial Cable	GTS	N/A	GTS227	Jul. 01 2014	Jun. 30, 2015	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	

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



7 Test results and Measurement Data

7.1 Antenna requirement:

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

15.203 requirement:

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

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

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

E.U.T Antenna:

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





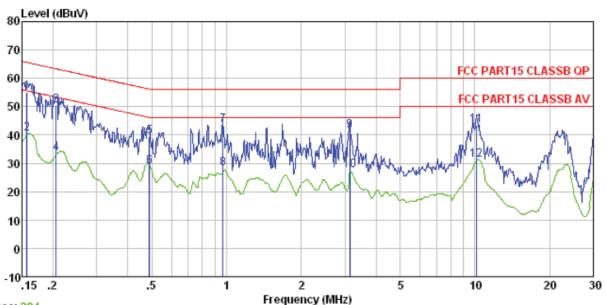
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207			
Test Method:	ANSI C63.4:2003			
Test Frequency Range:	150KHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto		
Limit:	Fraguerov range (MHz)	Limit (c	lBuV)	
	Frequency range (MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the logarithn	n of the frequency.		
Test setup:	Reference Plane		_	
	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC pow	ver	
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement. 			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			



Measurement data

Line:



Trace: 204

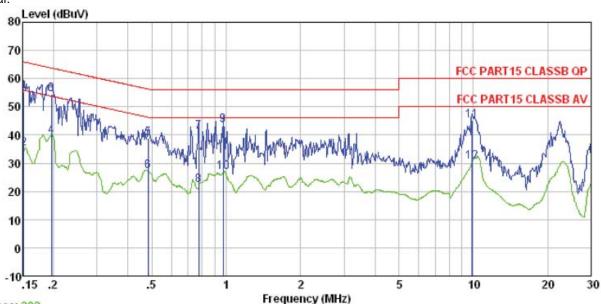
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 0979RF Test mode : WIFI mode Test Engineer: Qing

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	d₿	dBu₹	dBuV	dB	
1	0.157	54.70	0.15	0.12	54.97	65.60	-10.63	QP
2	0.157	40.06	0.15	0.12	40.33	55.60	-15.27	Average
3	0.206	50.13	0.13	0.13	50.39	63.36	-12.97	QP
4 5	0.206	33.25	0.13	0.13	33.51	53.36	-19.85	Average
5	0.489	39.35	0.12	0.11	39.58	56.19	-16.61	QP
6	0.489	28.77	0.12	0.11	29.00	46.19	-17.19	Average
7	0.968	43.10	0.14	0.13	43.37	56.00	-12.63	QP
8 9	0.968	28.04	0.14	0.13	28.31	46.00	-17.69	Average
9	3.140	41.22	0.16	0.15	41.53	56.00	-14.47	QP
10	3.140	27.36	0.16	0.15	27.67	46.00	-18.33	Average
11	10.125	43.06	0.29	0.19	43.54	60.00	-16.46	QP
12	10.125	30.57	0.29	0.19	31.05	50.00	-18.95	Average



Neutral:



Trace: 202
Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0979RF Test mode : WIFI mode Test Engineer: Qing

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	-dBuV	dB	
1	0.152	55.12	0.07	0.12	55.31	65.91	-10.60	QP
2	0.152	34.92	0.07	0.12	35.11	55.91	-20.80	Average
	0.197	54.31	0.07	0.13	54.51	63.76	-9.25	QP
4 5 6 7	0.197	39.41	0.07	0.13	39.61	53.76	-14.15	Average
5	0.484	38.65	0.06	0.11	38.82	56.27	-17.45	QP
6	0.484	27.06	0.06	0.11	27.23	46.27	-19.04	Average
7	0.775	41.09	0.07	0.13	41.29	56.00	-14.71	QP
8	0.775	22.12	0.07	0.13	22.32	46.00	-23.68	Average
9	0.974	43.17	0.07	0.13	43.37	56.00	-12.63	QP
10	0.974	26.70	0.07	0.13	26.90	46.00	-19.10	Average
11	9.913	44.64	0.24	0.19	45.07	60.00	-14.93	QP
12	9.913	30.12	0.24	0.19	30.55	50.00	-19.45	Average

Notes:

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



7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)		
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance 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		

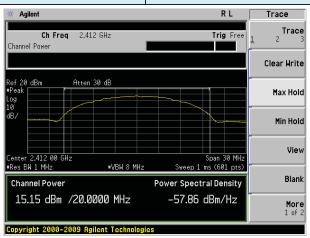
Measurement Data

Test CH		Peak Outp	Limit(dBm)	Result		
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Lilliit(GDIII)	Result
Lowest	15.15	11.06	10.99	10.95		
Middle	15.38	11.75	11.65	11.13	30.00	Pass
Highest	15.63	11.54	11.74	11.33		

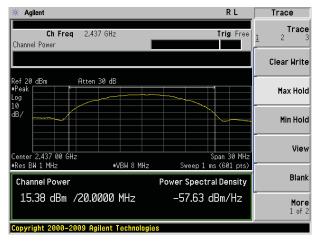


Test plot as follows:

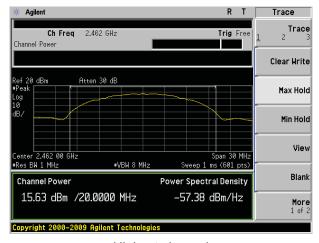
Test mode: 802.11b



Lowest channel



Middle channel

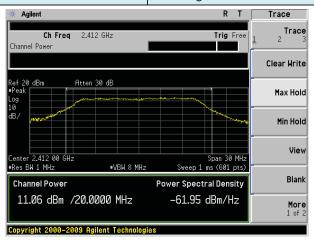


Highest channel

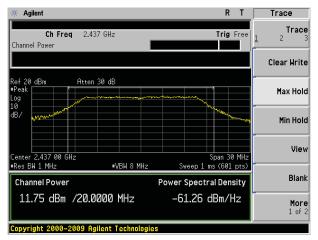
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



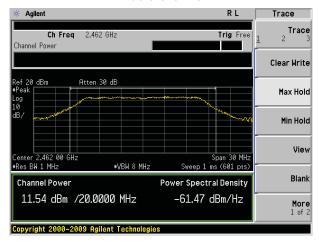
Test mode: 802.11g



Lowest channel



Middle channel

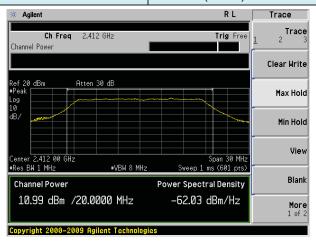


Highest channel

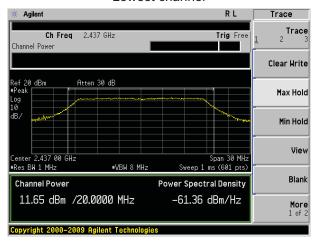
Shenzhen, China 518102



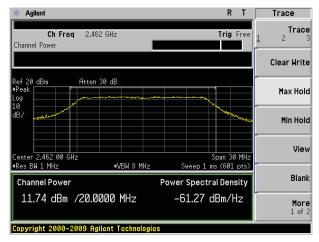
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

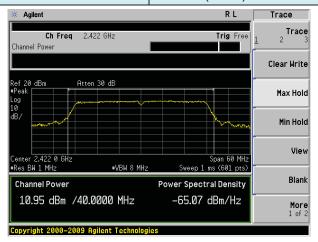


Highest channel

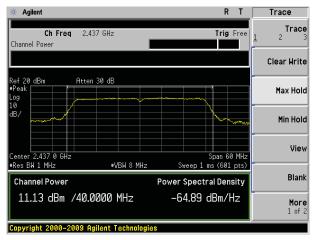
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



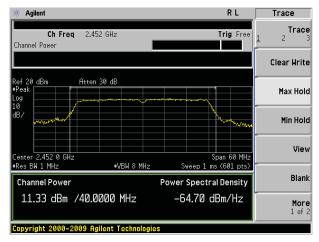
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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



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

		Channel Ba				
Test CH	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(KHz)	Result
Lowest	10.112	16.586	17.839	36.440		
Middle	10.098	16.575	17.831	36.434	>500	Pass
Highest	10.120	16.577	17.836	36.434		

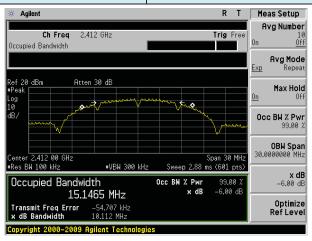
Test plot as follows:

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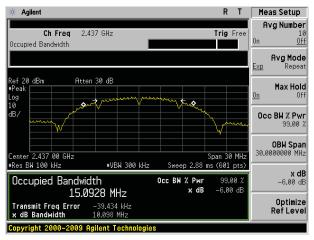
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



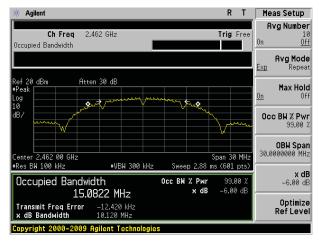
Test mode: 802.11b



Lowest channel



Middle channel



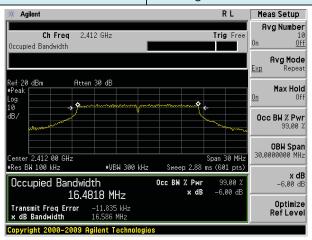
Highest channel

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

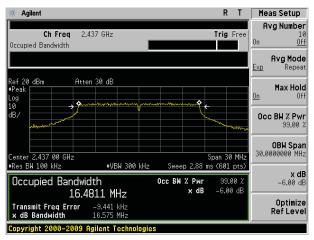
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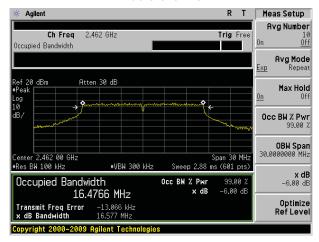
Test mode: 802.11g



Lowest channel



Middle channel



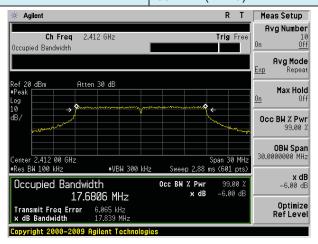
Highest channel

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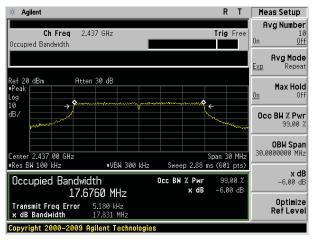
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



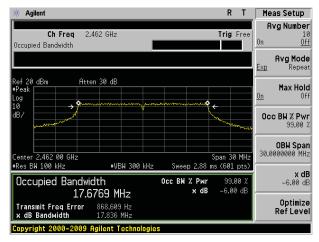
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

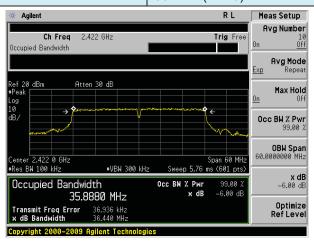


Highest channel

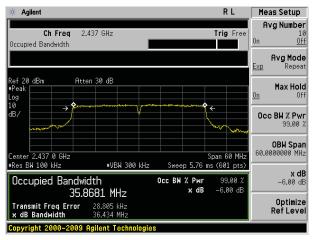
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



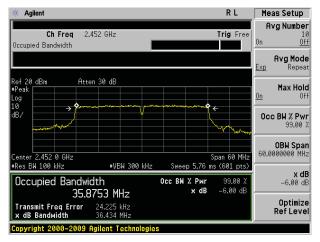
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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7.5 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	

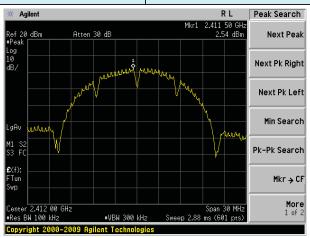
Measurement Data

		Power Spect	Limit(dBm/3kHz			
Test CH	802.11b	802.11g	802.11n(HT20)	802.11n(HT40))	Result
Lowest	2.54	-5.10	-5.73	-8.31		
Middle	2.96	-4.54	-4.97	-8.03	8.00	Pass
Highest	3.22	-4.26	-4.96	-7.76		

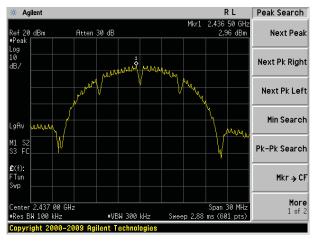


Test plot as follows:

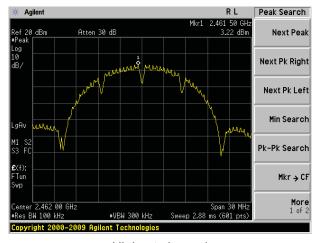
Test mode: 802.11b



Lowest channel



Middle channel

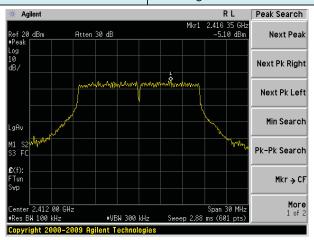


Highest channel

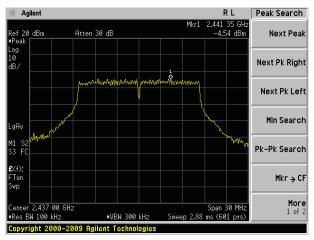
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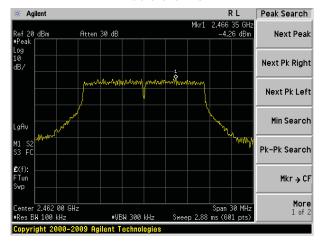
Test mode: 802.11g



Lowest channel



Middle channel



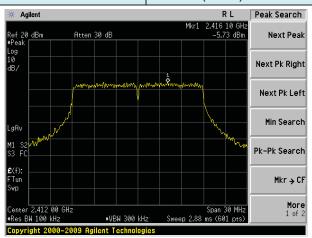
Highest channel

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

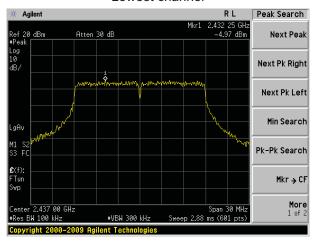
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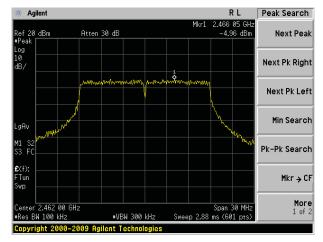
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

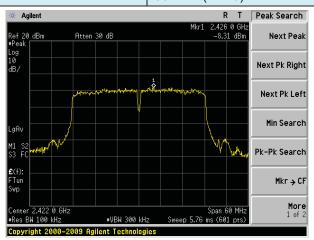


Highest channel

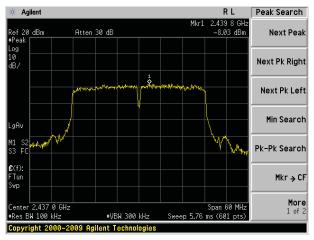
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



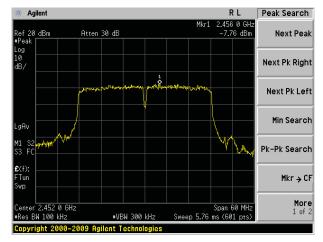
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



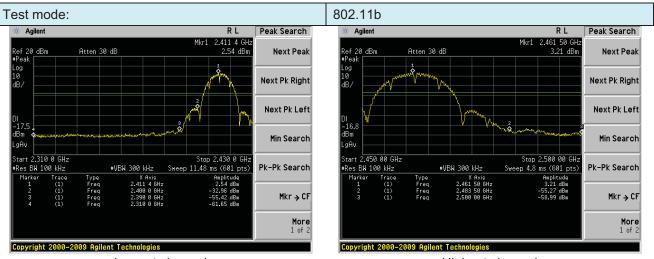
7.6 Band edges

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		



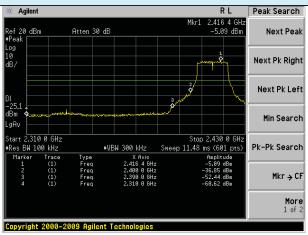
Test plot as follows:



Lowest channel

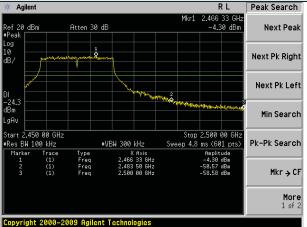
Highest channel

Test mode:



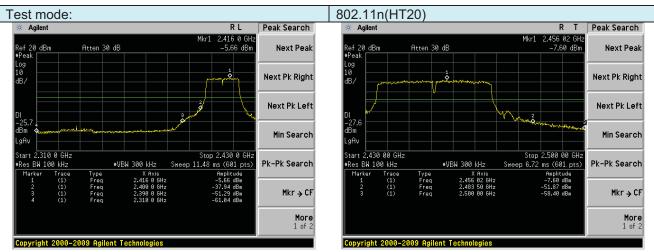
Lowest channel

802.11g



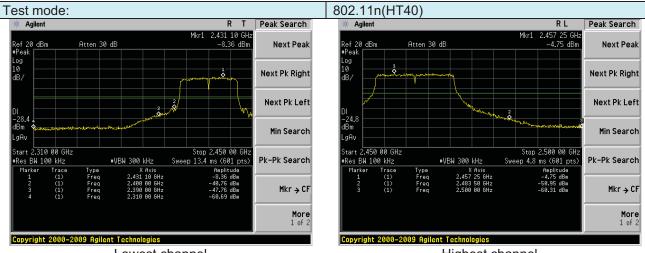
Highest channel





Lowest channel

Highest channel



Lowest channel

Highest channel

Shenzhen, China 518102



7.6.2 Radiated Emission Method

To d Day 1 and d	100 D. 445 O.G) (' 4F 000	145.005				
Test Requirement:	FCC Part15 C Section 15.209 and 15.205 ANSI C63.4: 2003						
Test Method:	All of the restrict bands were tested, only the worst band's (2310MHz to						
Test Frequency Range:	2500MHz) data was showed.						
Test site:	Measurement D	istance: 3m					
Receiver setup:	Frequency	Detector	RBW	VBW	Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak		
	Above 1GHZ	RMS	1MHz	3MHz	Average		
Limit:	Freque	ncy	Limit (dBuV	/m @3m)	Value		
	Above 1	CH-	54.0	0	Average		
	Above 1	GHZ	74.00 Peak				
Test setup:	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table Amplifier Amplifier						
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test 						
Test Instruments:	Refer to section	6.0 for details					
Test mode:	Refer to section	5.3 for details					
Test results:	Pass						



Measurement data:

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

Test mode:	802 11h	Test channel:	Lowest
1000111000.	002.110	1 oot onamion.	LOWGOL

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	49.98	27.59	5.38	30.18	52.77	74.00	-21.23	Horizontal
2400.00	58.43	27.58	5.39	30.18	61.22	74.00	-12.78	Horizontal
2390.00	51.54	27.59	5.38	30.18	54.33	74.00	-19.67	Vertical
2400.00	59.78	27.58	5.39	30.18	62.57	74.00	-11.43	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.22	27.59	5.38	30.18	40.01	54.00	-13.99	Horizontal
2400.00	45.33	27.58	5.39	30.18	48.12	54.00	-5.88	Horizontal
2390.00	38.91	27.59	5.38	30.18	41.70	54.00	-12.30	Vertical
2400.00	46.33	27.58	5.39	30.18	49.12	54.00	-4.88	Vertical

Test mode: 802.7	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.92	27.53	5.47	29.93	52.99	74.00	-21.01	Horizontal
2500.00	46.28	27.55	5.49	29.93	49.39	74.00	-24.61	Horizontal
2483.50	51.84	27.53	5.47	29.93	54.91	74.00	-19.09	Vertical
2500.00	48.48	27.55	5.49	29.93	51.59	74.00	-22.41	Vertical

Average value:

71101490 141401								
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	37.33	27.53	5.47	29.93	40.40	54.00	-13.60	Horizontal
2500.00	33.75	27.55	5.49	29.93	36.86	54.00	-17.14	Horizontal
2483.50	39.13	27.53	5.47	29.93	42.20	54.00	-11.80	Vertical
2500.00	35.57	27.55	5.49	29.93	38.68	54.00	-15.32	Vertical

Remark:

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

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Project No.: GTSE140601003RF

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802.11g

Test mode:

Report No.: GTSE14060100301

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	49.19	27.59	5.38	30.18	51.98	74.00	-22.02	Horizontal
2400.00	57.38	27.58	5.39	30.18	60.17	74.00	-13.83	Horizontal
2390.00	50.70	27.59	5.38	30.18	53.49	74.00	-20.51	Vertical
2400.00	58.51	27.58	5.39	30.18	61.30	74.00	-12.70	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	36.66	27.59	5.38	30.18	39.45	54.00	-14.55	Horizontal
2400.00	44.69	27.58	5.39	30.18	47.48	54.00	-6.52	Horizontal
2390.00	38.28	27.59	5.38	30.18	41.07	54.00	-12.93	Vertical
2400.00	45.62	27.58	5.39	30.18	48.41	54.00	-5.59	Vertical
Test mode:		802.1	1g	Tes	st channel:	Highest		
Peak value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.79	27.53	5.47	29.93	51.86	74.00	-22.14	Horizontal
2500.00	45.41	27.55	5.49	29.93	48.52	74.00	-25.48	Horizontal
2483.50	50.55	27.53	5.47	29.93	53.62	74.00	-20.38	Vertical
2500.00	47.45	27.55	5.49	29.93	50.56	74.00	-23.44	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.65	27.53	5.47	29.93	39.72	54.00	-14.28	Horizontal
2500.00	33.22	27.55	5.49	29.93	36.33	54.00	-17.67	Horizontal
2483.50	38.38	27.53	5.47	29.93	41.45	54.00	-12.55	Vertical
2500.00	35.01	27.55	5.49	29.93	38.12	54.00	-15.88	Vertical
Remark:								

Test channel:

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.: GTSE14060100301

Lowest

1 oot mode.		00	(,	1 oot onamio		Lowoot		
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	49.55	27.59	5.38	30.18	52.34	74.00	-21.66	Horizontal
2400.00	57.86	27.58	5.39	30.18	60.65	74.00	-13.35	Horizontal
2390.00	51.09	27.59	5.38	30.18	53.88	74.00	-20.12	Vertical
2400.00	59.10	27.58	5.39	30.18	61.89	74.00	-12.11	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	36.92	27.59	5.38	30.18	39.71	54.00	-14.29	Horizontal
2400.00	44.99	27.58	5.39	30.18	47.78	54.00	-6.22	Horizontal
2390.00	38.57	27.59	5.38	30.18	41.36	54.00	-12.64	Vertical
2400.00	45.95	27.58	5.39	30.18	48.74	54.00	-5.26	Vertical
Test mode:		802.1	1n(HT20)	Tes	st channel:	I: Highest		
Peak value					_			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.31	27.53	5.47	29.93	52.38	74.00	-21.62	Horizontal
2500.00	45.81	27.55	5.49	29.93	48.92	74.00	-25.08	Horizontal
2483.50	51.14	27.53	5.47	29.93	54.21	74.00	-19.79	Vertical
2500.00	47.92	27.55	5.49	29.93	51.03	74.00	-22.97	Vertical
Average va	lue:				1			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.97	27.53	5.47	29.93	40.04	54.00	-13.96	Horizontal
2500.00	33.47	27.55	5.49	29.93	36.58	54.00	-17.42	Horizontal
2483.50	38.73	27.53	5.47	29.93	41.80	54.00	-12.20	Vertical
2500.00	35.27	27.55	5.49	29.93	38.38	54.00	-15.62	Vertical
Remark:								

Test channel:

802.11n(HT20)

Remark:

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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.



Report No.: GTSE14060100301

Test mode:		802.1	1n(HT40)	Test channel:			Lowest		
Peak value:	1	•		·			<u>'</u>		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or .	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	48.40	27.59	5.38	30.1	8	51.19	74.00	-22.81	Horizontal
2400.00	56.32	27.58	5.39	30.1	8	59.11	74.00	-14.89	Horizontal
2390.00	49.85	27.59	5.38	30.1	8	52.64	74.00	-21.36	Vertical
2400.00	57.24	27.58	5.39	30.1	8	60.03	74.00	-13.97	Vertical
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or .	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	36.09	27.59	5.38	30.1	8	38.88	54.00	-15.12	Horizontal
2400.00	44.04	27.58	5.39	30.1	8	46.83	54.00	-7.17	Horizontal
2390.00	37.65	27.59	5.38	30.18		40.44	54.00	-13.56	Vertical
2400.00	44.91	27.58	5.39	30.1	8	47.70	54.00	-6.30	Vertical
Test mode:		802.1	1n(HT40)		Tes	st channel:		Highest	
Peak value:				ı				1	1
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2483.50	47.66	27.53	5.47	29.9	3	50.73	74.00	-23.27	Horizontal
2500.00	44.53	27.55	5.49	29.9	3	47.64	74.00	-26.36	Horizontal
2483.50	49.25	27.53	5.47	29.9	3	52.32	74.00	-21.68	Vertical
2500.00	46.42	27.55	5.49	29.9	3	49.53	74.00	-24.47	Vertical
Average va	lue:				1	Т			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	I I Imit	Polarization
2483.50	35.97	27.53	5.47	29.9	3	39.04	54.00	-14.96	Horizontal
2500.00	32.69	27.55	5.49	29.9	3	35.80	54.00	-18.20	Horizontal
2483.50	37.62	27.53	5.47	29.9	3	40.69	54.00	-13.31	Vertical
2500.00	34.44	27.55	5.49	29.9	3	37.55	54.00	-16.45	Vertical

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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.



7.7 Spurious Emission

7.7.1 Conducted Emission Method

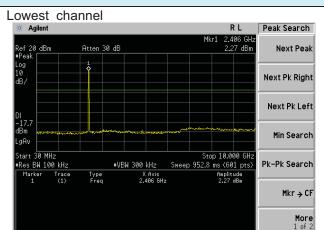
Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the 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					



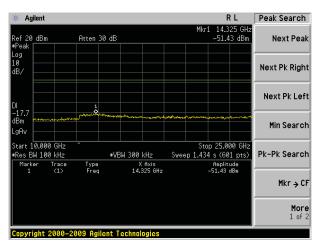
Test plot as follows:

Test mode:

802.11b



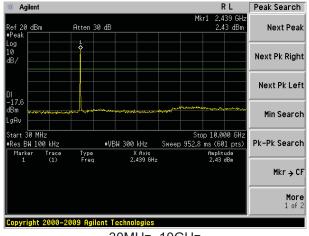
30MHz~10GHz



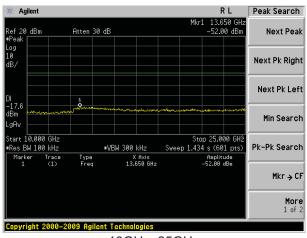
10GHz~25GHz



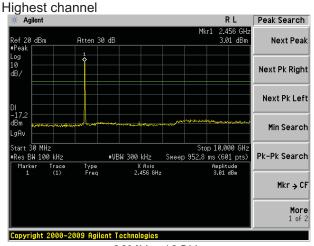
Copyright 2000-2009 Agilent Technologies



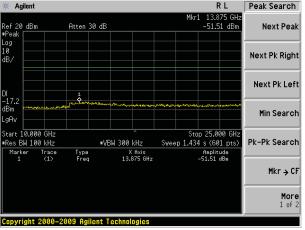
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



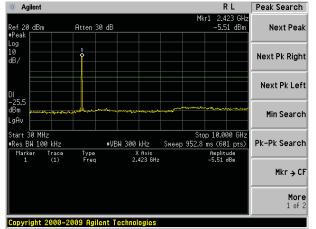
10GHz~25GHz



Test mode:

802.11g

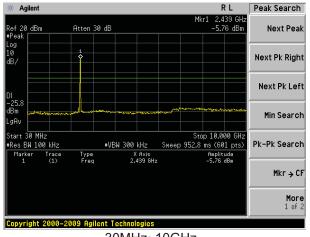




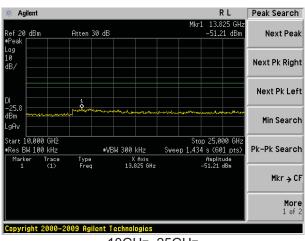
30MHz~10GHz

10GHz~25GHz

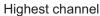
Middle channel

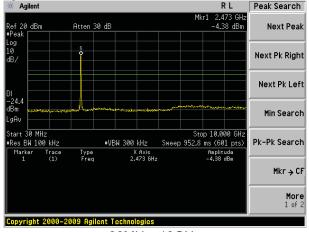


30MHz~10GHz

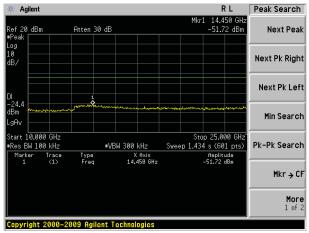


10GHz~25GHz





30MHz~10GHz



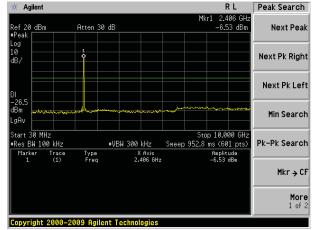
10GHz~25GHz



Test mode:

802.11n(HT20)

Lowest channel

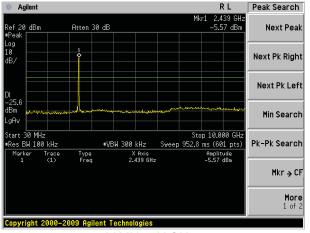


30MHz~10GHz

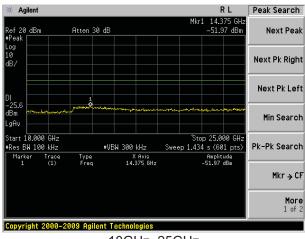
Peak Search R L Agilent Next Peak Atten 30 dB Next Pk Right Next Pk Left Min Search Start 10.000 GHz Res BW 100 kHz Stop 25.000 GH: Sweep 1.434 s (601 pts) Pk-Pk Search #VBW 300 kHz X Axis 14.025 GHz Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

Middle channel

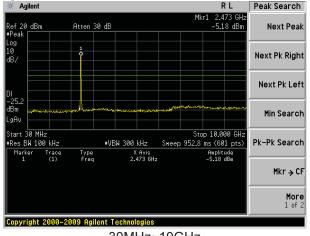


30MHz~10GHz

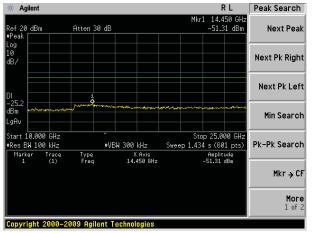


10GHz~25GHz

Highest channel



30MHz~10GHz



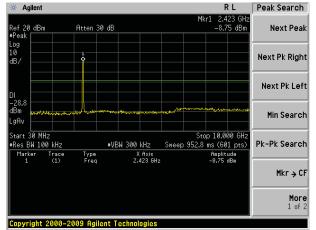
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

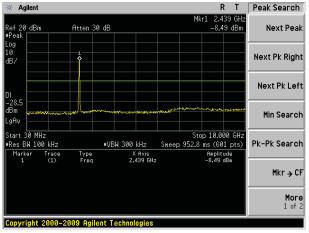


30MHz~10GHz

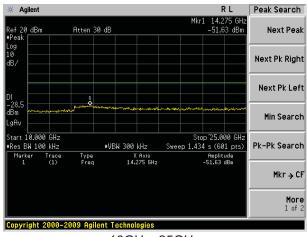
Peak Search Agilent R L Next Peak Atten 30 dE Next Pk Right Next Pk Left Min Search Stop 25.000 GH: Sweep 1.434 s (601 pts) Start 10.000 GHz #VBW 300 kHz Pk-Pk Search Res BW 100 kHz #Res BW 100 kHz Type Freq X Axis 14.425 GHz Amplitude -50.23 dBm Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

Middle channel

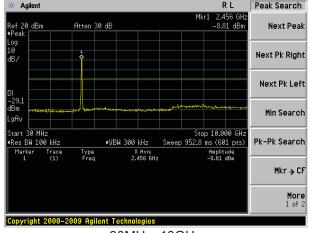


30MHz~10GHz

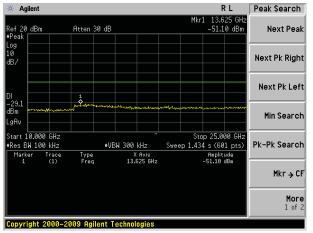


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209										
Test Method:	ANSI C63.4: 200	3										
Test Frequency Range:	30MHz to 25GHz	30MHz to 25GHz										
Test site:	Measurement Dis	stance: 3m										
Receiver setup:	Frequency											
	30MHz-1GHz	30MHz-1GHz Quasi-peak 120KHz 300KHz Qua										
	Above 1CHz	Above 1GHz Peak 1MHz 3MHz Peak										
	Above 1G112	RMS	1MHz	3MHz	Average							
Limit:	Frequen	су	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										
	Above 10	Above 1GHz 54.00 Average										
	Above 10	Above 1GHz 74.00 Peak										
	Antenna Tower Search Antenna RF Test Receiver Ground Plane Above 1GHz Antenna Tower Horn Antenna Spectrum Analyzer											

Global United Technology Services Co., Ltd.

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Shenzhen, China 518102



Test Procedure:	The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	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
30.85	52.79	14.32	0.56	32.06	35.61	40.00	-4.39	Vertical
199.99	53.19	12.57	1.84	32.14	35.46	43.50	-8.04	Vertical
370.70	52.80	16.51	2.72	31.97	40.06	46.00	-5.94	Vertical
508.26	46.23	18.74	3.34	31.51	36.80	46.00	-9.20	Vertical
742.26	47.17	21.34	4.24	31.25	41.50	46.00	-4.50	Vertical
912.86	44.43	23.18	4.90	31.19	41.32	46.00	-4.68	Vertical
199.99	52.80	12.57	1.84	32.14	35.07	43.50	-8.43	Horizontal
252.95	52.93	14.06	2.14	32.16	36.97	46.00	-9.03	Horizontal
374.62	54.53	16.54	2.74	31.96	41.85	46.00	-4.15	Horizontal
455.91	47.56	17.58	3.11	31.70	36.55	46.00	-9.45	Horizontal
747.48	46.81	21.43	4.27	31.25	41.26	46.00	-4.74	Horizontal
842.13	45.19	22.51	4.63	31.26	41.07	46.00	-4.93	Horizontal

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Above 1GHz

Test mode:		802.11b		Test	st channel: Lowe		est		
Peak value:		_				<u>'</u>	_		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4824.00	38.31	31.79	8.62	32.10	46.62	74.00	-27.38	Vertical	
7236.00	32.96	36.19	11.68	31.97	48.86	74.00	-25.14	Vertical	
9648.00	31.82	38.07	14.16	31.56	52.49	74.00	-21.51	Vertical	
12060.00	*					74.00		Vertical	
14472.00	*					74.00		Vertical	
16884.00	*					74.00		Vertical	
4824.00	37.29	31.79	8.62	32.10	45.60	74.00	-28.40	Horizontal	
7236.00	32.87	36.19	11.68	31.97	48.77	74.00	-25.23	Horizontal	
9648.00	31.47	38.07	14.16	31.56	52.14	74.00	-21.86	Horizontal	
12060.00	*					74.00		Horizontal	
14472.00	*					74.00		Horizontal	
16884.00	*					74.00		Horizontal	
Average val		T						T	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4824.00	27.55	31.79	8.62	32.10	35.86	54.00	-18.14	Vertical	
7236.00	21.88	36.19	11.68	31.97	37.78	54.00	-16.22	Vertical	
9648.00	22.20	38.07	14.16	31.56	42.87	54.00	-11.13	Vertical	
12060.00	*					54.00		Vertical	
14472.00	*					54.00		Vertical	
16884.00	*					54.00		Vertical	
4824.00	26.93	31.79	8.62	32.10	35.24	54.00	-18.76	Horizontal	
7236.00	21.49	36.19	11.68	31.97	37.39	54.00	-16.61	Horizontal	
9648.00	21.24	38.07	14.16	31.56	41.91	54.00	-12.09	Horizontal	
12060.00	*					54.00		Horizontal	
14472.00	*					54.00		Horizontal	
100010=		l							

Remark:

16884.00

Project No.: GTSE140601003RF

Horizontal

54.00

^{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	37.71	31.85	8.66	32.12	46.10	74.00	-27.90	Vertical
7311.00	33.25	36.37	11.71	31.91	49.42	74.00	-24.58	Vertical
9748.00	32.99	38.27	14.25	31.56	53.95	74.00	-20.05	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	38.44	31.85	8.66	32.12	46.83	74.00	-27.17	Horizontal
7311.00	32.02	36.37	11.71	31.91	48.19	74.00	-25.81	Horizontal
9748.00	32.94	38.27	14.25	31.56	53.90	74.00	-20.10	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:		•	•				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	28.69	31.85	8.66	32.12	37.08	54.00	-16.92	Vertical
7311.00	21.60	36.37	11.71	31.91	37.77	54.00	-16.23	Vertical
9748.00	22.27	38.27	14.25	31.56	43.23	54.00	-10.77	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	28.64	31.85	8.66	32.12	37.03	54.00	-16.97	Horizontal
7311.00	21.14	36.37	11.71	31.91	37.31	54.00	-16.69	Horizontal
9748.00	22.68	38.27	14.25	31.56	43.64	54.00	-10.36	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

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Test mode:		802.11b		Test	channel:	Highe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	42.05	31.90	8.70	32.15	50.50	74.00	-23.50	Vertical
7386.00	33.18	36.49	11.76	31.83	49.60	74.00	-24.40	Vertical
9848.00	35.75	38.62	14.31	31.77	56.91	74.00	-17.09	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	41.80	31.90	8.70	32.15	50.25	74.00	-23.75	Horizontal
7386.00	32.30	36.49	11.76	31.83	48.72	74.00	-25.28	Horizontal
9848.00	32.02	38.62	14.31	31.77	53.18	74.00	-20.82	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	33.19	31.90	8.70	32.15	41.64	54.00	-12.36	Vertical
7386.00	23.16	36.49	11.76	31.83	39.58	54.00	-14.42	Vertical
9848.00	24.30	38.62	14.31	31.77	45.46	54.00	-8.54	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	32.31	31.90	8.70	32.15	40.76	54.00	-13.24	Horizontal
7386.00	21.74	36.49	11.76	31.83	38.16	54.00	-15.84	Horizontal
9848.00	21.32	38.62	14.31	31.77	42.48	54.00	-11.52	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

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Test mode:		802.11g		Test	channel:	lowes	st	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	37.13	31.79	8.62	32.10	45.44	74.00	-28.56	Vertical
7236.00	32.22	36.19	11.68	31.97	48.12	74.00	-25.88	Vertical
9648.00	31.29	38.07	14.16	31.56	51.96	74.00	-22.04	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	36.29	31.79	8.62	32.10	44.60	74.00	-29.40	Horizontal
7236.00	32.22	36.19	11.68	31.97	48.12	74.00	-25.88	Horizontal
9648.00	30.97	38.07	14.16	31.56	51.64	74.00	-22.36	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	ue:		•	•				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	26.46	31.79	8.62	32.10	34.77	54.00	-19.23	Vertical
7236.00	21.16	36.19	11.68	31.97	37.06	54.00	-16.94	Vertical
9648.00	21.69	38.07	14.16	31.56	42.36	54.00	-11.64	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	26.00	31.79	8.62	32.10	34.31	54.00	-19.69	Horizontal
7236.00	20.86	36.19	11.68	31.97	36.76	54.00	-17.24	Horizontal
9648.00	20.77	38.07	14.16	31.56	41.44	54.00	-12.56	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

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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	36.74	31.85	8.66	32.12	45.13	74.00	-28.87	Vertical
7311.00	32.64	36.37	11.71	31.91	48.81	74.00	-25.19	Vertical
9748.00	32.55	38.27	14.25	31.56	53.51	74.00	-20.49	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	37.62	31.85	8.66	32.12	46.01	74.00	-27.99	Horizontal
7311.00	31.49	36.37	11.71	31.91	47.66	74.00	-26.34	Horizontal
9748.00	32.53	38.27	14.25	31.56	53.49	74.00	-20.51	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	27.79	31.85	8.66	32.12	36.18	54.00	-17.82	Vertical
7311.00	21.01	36.37	11.71	31.91	37.18	54.00	-16.82	Vertical
9748.00	21.85	38.27	14.25	31.56	42.81	54.00	-11.19	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	27.87	31.85	8.66	32.12	36.26	54.00	-17.74	Horizontal
7311.00	20.62	36.37	11.71	31.91	36.79	54.00	-17.21	Horizontal
9748.00	22.29	38.27	14.25	31.56	43.25	54.00	-10.75	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

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Test mode:		802.11g			Test	channel:		Highe	est	
Peak value:										
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
4924.00	40.37	31.90	8.70	32	.15	48.82	74.	00	-25.18	Vertical
7386.00	32.12	36.49	11.76	31	.83	48.54	74.	00	-25.46	Vertical
9848.00	34.99	38.62	14.31	31	.77	56.15	74.	00	-17.85	Vertical
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	40.38	31.90	8.70	32	.15	48.83	74.	00	-25.17	Horizontal
7386.00	31.37	36.49	11.76	31	.83	47.79	74.	00	-26.21	Horizontal
9848.00	31.32	38.62	14.31	31	.77	52.48	74.	00	-21.52	Horizontal
12310.00	*						74.	00		Horizontal
14772.00	*						74.	00		Horizontal
17234.00	*						74.	00		Horizontal
Average val	ue:		1							
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
4924.00	31.64	31.90	8.70	32	.15	40.09	54.	00	-13.91	Vertical
7386.00	22.13	36.49	11.76	31	.83	38.55	54.	00	-15.45	Vertical
9848.00	23.58	38.62	14.31	31	.77	44.74	54.	00	-9.26	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4924.00	30.98	31.90	8.70	32	.15	39.43	54.	00	-14.57	Horizontal
7386.00	20.84	36.49	11.76	31	.83	37.26	54.	00	-16.74	Horizontal
9848.00	20.65	38.62	14.31	31	.77	41.81	54.	00	-12.19	Horizontal
12310.00	*						54.	00		Horizontal
14772.00	*						54.	00		Horizontal
17234.00	*						54.	00	<u> </u>	Horizontal

Remark:

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



Test mode:		802.11n(H	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	37.61	31.79	8.62	32.10	45.92	74.00	-28.08	Vertical
7236.00	32.52	36.19	11.68	31.97	48.42	74.00	-25.58	Vertical
9648.00	31.50	38.07	14.16	31.56	52.17	74.00	-21.83	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	36.69	31.79	8.62	32.10	45.00	74.00	-29.00	Horizontal
7236.00	32.48	36.19	11.68	31.97	48.38	74.00	-25.62	Horizontal
9648.00	31.17	38.07	14.16	31.56	51.84	74.00	-22.16	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	26.90	31.79	8.62	32.10	35.21	54.00	-18.79	Vertical
7236.00	21.45	36.19	11.68	31.97	37.35	54.00	-16.65	Vertical
9648.00	21.89	38.07	14.16	31.56	42.56	54.00	-11.44	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	26.37	31.79	8.62	32.10	34.68	54.00	-19.32	Horizontal
7236.00	21.11	36.19	11.68	31.97	37.01	54.00	-16.99	Horizontal
9648.00	20.96	38.07	14.16	31.56	41.63	54.00	-12.37	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	37.13	31.85	8.66	32.12	45.52	74.00	-28.48	Vertical
7311.00	32.88	36.37	11.71	31.91	49.05	74.00	-24.95	Vertical
9748.00	32.73	38.27	14.25	31.56	53.69	74.00	-20.31	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	37.95	31.85	8.66	32.12	46.34	74.00	-27.66	Horizontal
7311.00	31.70	36.37	11.71	31.91	47.87	74.00	-26.13	Horizontal
9748.00	32.69	38.27	14.25	31.56	53.65	74.00	-20.35	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)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	28.15	31.85	8.66	32.12	36.54	54.00	-17.46	Vertical
7311.00	21.25	36.37	11.71	31.91	37.42	54.00	-16.58	Vertical
9748.00	22.02	38.27	14.25	31.56	42.98	54.00	-11.02	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	28.18	31.85	8.66	32.12	36.57	54.00	-17.43	Horizontal
7311.00	20.83	36.37	11.71	31.91	37.00	54.00	-17.00	Horizontal
9748.00	22.44	38.27	14.25	31.56	43.40	54.00	-10.60	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.

Shenzhen, China 518102



Test mode:		802.11n(H	IT20)	Test	channel:	Highe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	41.05	31.90	8.70	32.15	49.50	74.00	-24.50	4924.00
7386.00	32.54	36.49	11.76	31.83	48.96	74.00	-25.04	7386.00
9848.00	35.30	38.62	14.31	31.77	56.46	74.00	-17.54	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	40.95	31.90	8.70	32.15	49.40	74.00	-24.60	Horizontal
7386.00	31.75	36.49	11.76	31.83	48.17	74.00	-25.83	Horizontal
9848.00	31.60	38.62	14.31	31.77	52.76	74.00	-21.24	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	32.26	31.90	8.70	32.15	40.71	54.00	-13.29	Vertical
7386.00	22.54	36.49	11.76	31.83	38.96	54.00	-15.04	Vertical
9848.00	23.87	38.62	14.31	31.77	45.03	54.00	-8.97	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	31.52	31.90	8.70	32.15	39.97	54.00	-14.03	Horizontal
7386.00	21.20	36.49	11.76	31.83	37.62	54.00	-16.38	Horizontal
9848.00	20.92	38.62	14.31	31.77	42.08	54.00	-11.92	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(HT40)			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	35.97	31.81	8.63	32.11		44.30	74.00		-29.70	Vertical
7266.00	31.48	36.28	11.69	31.94		47.51	74.00		-26.49	Vertical
9688.00	30.76	38.13	14.21	31.52		51.58	74.00		-22.42	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	35.31	31.81	8.63	32.11		43.64	74.	00	-30.36	Horizontal
7266.00	31.58	36.28	11.69	31.94		47.61	74.	00	-26.39	Horizontal
9688.00	30.49	38.13	14.21	31.52		51.31	74.	00	-22.69	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*				_		74.	00		Horizontal
Average val	ue:									

7 troi ago rai								
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	25.39	31.81	8.63	32.11	33.72	54.00	-20.28	Vertical
7266.00	20.45	36.28	11.69	31.94	36.48	54.00	-17.52	Vertical
9688.00	21.18	38.13	14.21	31.52	42.00	54.00	-12.00	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	25.07	31.81	8.63	32.11	33.40	54.00	-20.60	Horizontal
7266.00	20.23	36.28	11.69	31.94	36.26	54.00	-17.74	Horizontal
9688.00	20.30	38.13	14.21	31.52	41.12	54.00	-12.88	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(HT40)			Test channel:			Middle		
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4874.00	35.77	31.85	8.66	32.12		44.16	74.	00	-29.84	Vertical
7311.00	32.03	36.37	11.71	31.91		48.20	74.	00	-25.80	Vertical
9748.00	32.12	38.27	14.25	31.56		53.08	74.00		-20.92	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	36.81	31.85	8.66	32	.12	45.20	74.00		-28.80	Horizontal
7311.00	30.95	36.37	11.71	31.91		47.12	74.00		-26.88	Horizontal
9748.00	32.13	38.27	14.25	31.56		53.09	74.00		-20.91	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	26.91	31.85	8.66	32	.12	35.30	54.	00	-18.70	Vertical
7311.00	20.42	36.37	11.71	31	.91	36.59	54.	00	-17.41	Vertical
9748.00	21.43	38.27	14.25	31	.56	42.39	54.	00	-11.61	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	27.11	31.85	8.66	32	.12	35.50	54.	00	-18.50	Horizontal
7311.00	20.10	36.37	11.71	31	.91	36.27	54.	00	-17.73	Horizontal
9748.00	21.90	38.27	14.25	31	.56	42.86	54.	00	-11.14	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	IT40)	Test	channel:	Highest			
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4904.00	38.71	31.88	8.68	32.13	47.14	74.00	-26.86	Vertical	
7356.00	31.07	36.45	11.75	31.86	47.41	74.00	-26.59	Vertical	
9808.00	34.24	38.43	14.29	31.68	55.28	74.00	-18.72	Vertical	
12310.00	*					74.00		Vertical	
14772.00	*					74.00		Vertical	
17234.00	*					74.00		Vertical	
4904.00	38.98	31.88	8.68	32.13	47.41	74.00	-26.59	Horizontal	
7356.00	30.46	36.45	11.75	31.86	46.80	74.00	-27.20	Horizontal	
9808.00	30.63	38.43	14.29	31.68	51.67	74.00	-22.33	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	30.11	31.88	8.68	32.13	38.54	54.00	-15.46	Vertical	
7356.00	21.12	36.45	11.75	31.86	37.46	54.00	-16.54	Vertical	
9808.00	22.86	38.43	14.29	31.68	43.90	54.00	-10.10	Vertical	
12310.00	*					54.00		Vertical	
14772.00	*					54.00		Vertical	
17234.00	*					54.00		Vertical	
4904.00	29.67	31.88	8.68	32.13	38.10	54.00	-15.90	Horizontal	
7356.00	19.95	36.45	11.75	31.86	36.29	54.00	-17.71	Horizontal	
9808.00	19.98	38.43	14.29	31.68	41.02	54.00	-12.98	Horizontal	
12310.00	*					54.00		Horizontal	
14772.00	*					54.00		Horizontal	
17234.00	*					54.00		Horizontal	

Remark:

Shenzhen, China 518102

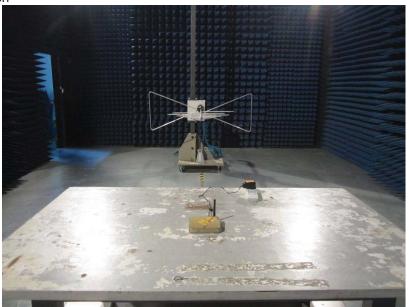
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

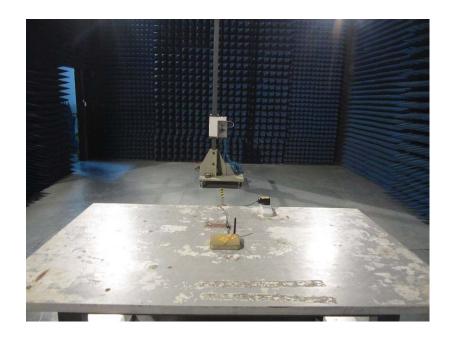
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







Conducted Emission



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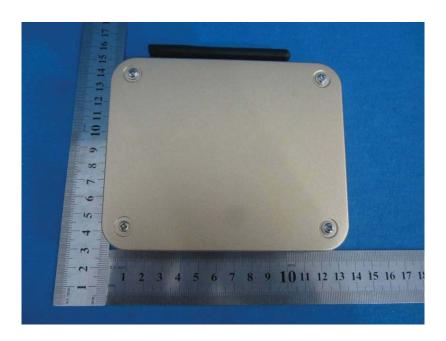
9 EUT Constructional Details





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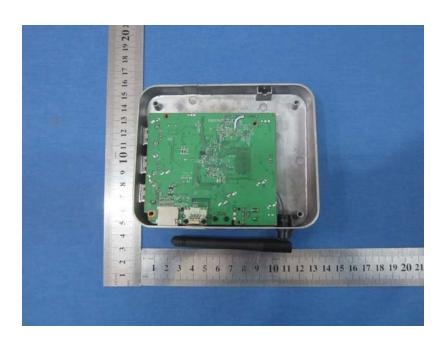






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