

Global United Technology Services Co., Ltd.

Report No.: GTSE15050073401

FCC Report (WIFI)

Applicant: Lightcomm Technology Co., Ltd.

Address of Applicant: RM1708-10,17/F,PROSPERITY CENTRE, 25 CHONG YIP

STREET, KWUN TONG, KOWLOON, HONG KONG

Equipment Under Test (EUT)

Product Name: MID

Model No.: MID9701-IB, TM970W510L

FCC ID: XMF-MID9701

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

Date of sample receipt: May 11, 2015

Date of Test: May 12-14, 2015

Date of report issued: May 14, 2015

Test Result: PASS *

Authorized Signature:



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	May 14, 2015	Original

Prepared By:	Edward.Pan	Date:	May 14, 2015
	Project Engineer		
Check By:	hank. yan	Date:	May 14, 2015
	Reviewer		



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4 Test Summary

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

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

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%.

Remark: Test according to ANSI C63.4:2009



5 General Information

5.1 Client Information

Applicant:	Lightcomm Technology Co., Ltd.	
Address of Applicant:	RM1708-10,17/F,PROSPERITY CENTRE, 25 CHONG YIP STREET,KWUN TONG, KOWLOON, HONG KONG	
Manufacturer/Factory:	Huizhou Hengdu Electronics Co., Ltd	
Address of Manufacture/Factory:	DIP South Area, Huiao Highway, Huizhou, Guangdong, China	

5.2 General Description of EUT

Product Name:	MID
Model No.:	MID9701-IB, TM970W510L
Test Model No.:	MID9701-IB
	identical in the same PCB layout, interior structure and electrical circuits. odel name and appearance color for commercial purpose.
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:	PIFA antenna
Antenna gain:	2.5dBi (declare by Applicant)
Power supply:	Model No.: TEKA018-0502500UK
	Input: AC 100-240V, 50/60Hz, 0.5A
	Output: DC 5.0V, 2.5A
	DC 3.7V Li-ion Battery



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

Note:

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

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

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode (dutycycle>98%)
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Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

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

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

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

5.4 Description of Support Units

None.

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



5.5 Test Facility

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

• CNAS —Registration No.: CNAS L5775

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

• FCC —Registration No.: 600491

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

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

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

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong

Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102

Tel: 0755-27798480 Fax: 0755-27798960



6 Test Instruments list

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. 4 2014	Dec. 3 2015	
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	July 01 2014	June 30 2015	
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July 01 2014	June 30 2015	
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015	
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 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	July 01 2014	June 30 2015	
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July 01 2014	June 30 2015	
15	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. 28 2015	Mar. 27 2016	
17	Power Meter	Anritsu	ML2495A	GTS540	July 01 2014	June 30 2015	
18	Power Sensor	Anritsu	MA2411B	GTS541	July 01 2014	June 30 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 2015				
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	July 01 2014	June 30 2015				
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	July 01 2014	June 30 2015				
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	July 01 2014	June 30 2015				
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	July 01 2014	June 30 2015				
6	Coaxial Cable	GTS	N/A	GTS227	July 01 2014	June 30 2015				
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A				

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

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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 PIFA antenna, the best case gain of the antenna is 2.5dBi





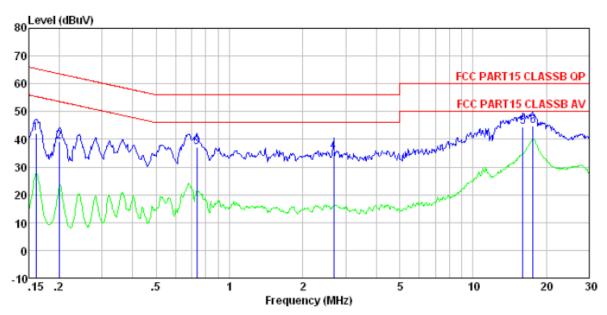
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
	ANSI C63.10:2013 150KHz to 30MHz					
Test Frequency Range:						
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv					
Limit:	Frequency range (MHz)	Limit (c				
	0.15-0.5	Quasi-peak 66 to 56*	Average 56 to 46*			
	0.15-0.5	56	46			
	5-30	60	50			
	* Decreases with the logarithm	n of the frequency.				
Test setup:	Reference Plane					
	AUX Equipment Remark E.U.T Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m					
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm 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 C63.10:2013 on conducted measurement. 					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					
Tool Toodito.	1. 400					



Measurement data

Line:



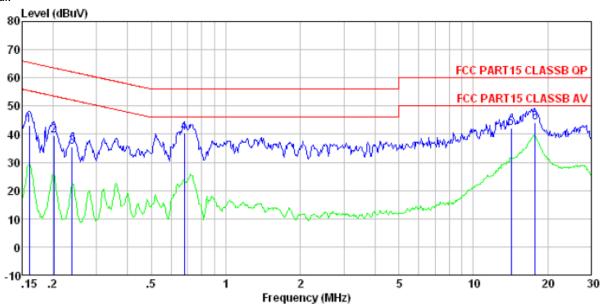
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 0734RF Test mode : WIFI mode Test Engineer: Qing

00.	2118211002		LISN	Cable		Limit	0ver	
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBuV	dB	d₿	dBuV	dBuV	dB	
1	0.161	41.96	0.15	0.12	42.23	65.43	-23.20	QP
2 3	0.200	38.92	0.14	0.13	39.19	63.62	-24.43	QP
3	0.735	36.89	0.14	0.13	37.16	56.00	-18.84	QP
4	2.678	35.23	0.14	0.15	35.52	56.00	-20.48	QP
5	16.055	43.74	0.35	0.22	44.31	60.00	-15.69	QP
6	17.661	43.96	0.49	0.22	44.67	60.00	-15.33	QP



Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0734RF Test mode : WIFI mode Test Engineer: Qing

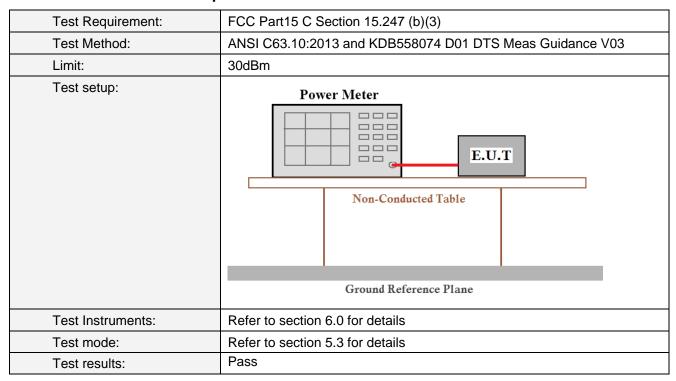
	F	Read	LISN				Over	B1-	
	rreq	Level	Factor	Loss	Level	Line	Limit	Kemark	
	MHz	dBu₹	dB	dB	dBu₹	dBuV	₫B		_
1	0.161	43.06	0.07	0.12	43.25	65.43	-22.18	QP	
2	0.202	39.22	0.07	0.13	39.42	63.54	-24.12	QP	
3	0.239	35.45	0.06	0.12	35.63	62.13	-26.50	QP	
4	0.679	40.32	0.07	0.13	40.52	56.00	-15.48	QP	
5	14.213	41.70	0.33	0.22	42.25	60.00	-17.75	QP	
6	17, 755	43, 49	0.40	0. 22	44.11	60, 00	-15.89	ΩP	

Notes:

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



7.3 Conducted Peak Output Power



Measurement Data

Test CH		Peak Outp	Limit(dBm)	Result		
1031 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesuit
Lowest	7.51	7.37	7.17	7.13		Pass
Middle	7.44	7.43	7.27	7.17	30.00	
Highest	7.57	7.23	7.37	7.16		



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		

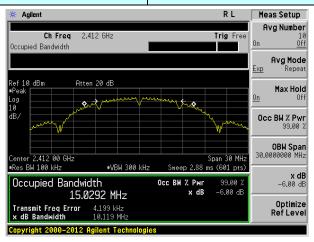
Measurement Data

Test CH		Channel Ban	Limit(KHz)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littit(IXI12)	Nesuit
Lowest	10.119	16.419	17.649	36.564		Pass
Middle	10.093	16.485	17.631	36.559	>500	
Highest	10.102	16.438	17.623	36.567		

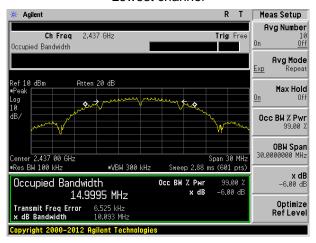
Test plot as follows:



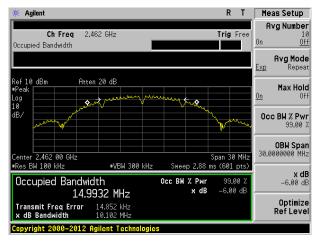
Test mode: 802.11b



Lowest channel



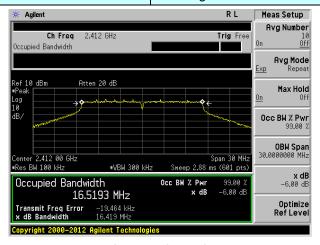
Middle channel



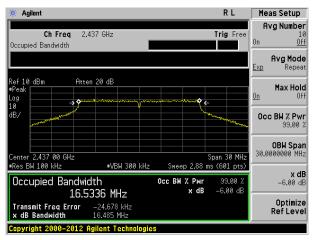
Highest channel



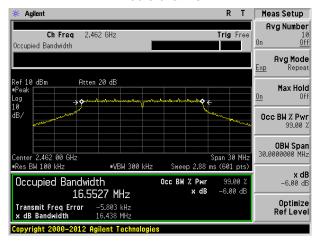
Test mode: 802.11g



Lowest channel



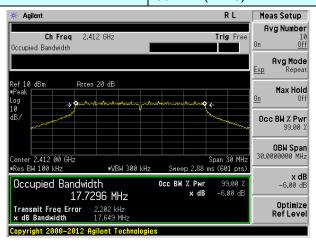
Middle channel



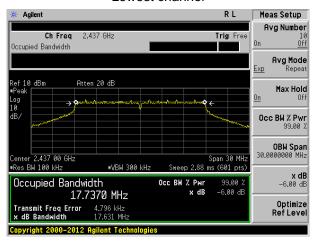
Highest channel



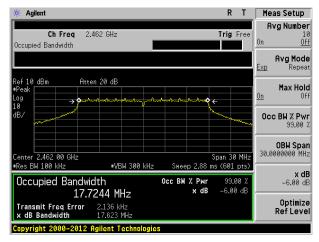
Test mode: 802.11n(HT20)



Lowest channel



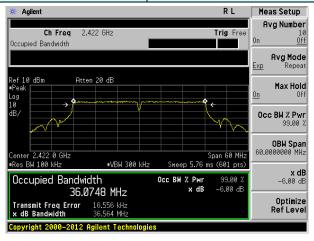
Middle channel



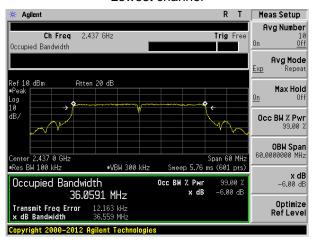
Highest channel



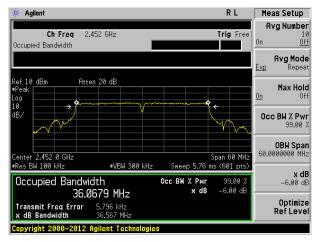
Test mode: 802.11n(HT40)



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		

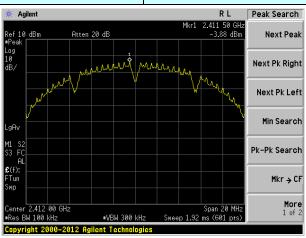
Measurement Data

Test CH		Power Spectra	Limit(dBm/3kHz)	Result		
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	LITIIL(GBITI/3KI12)	Meanit
Lowest	-3.88	-8.13	-8.26	-14.28		Pass
Middle	-4.06	-7.91	-7.84	-14.11	8.00	
Highest	-3.74	-7.82	-7.66	-14.47		

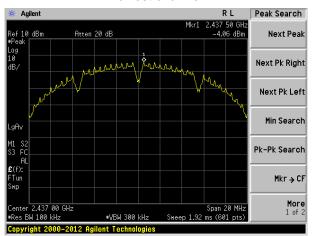


Test plot as follows:

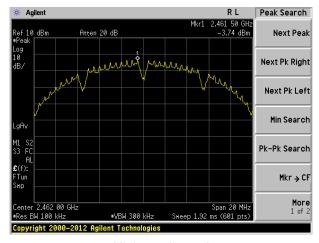
Test mode: 802.11b



Lowest channel



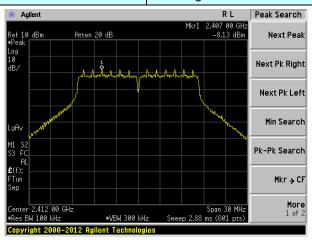
Middle channel



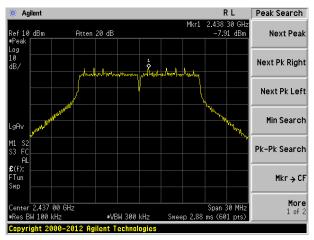
Highest channel



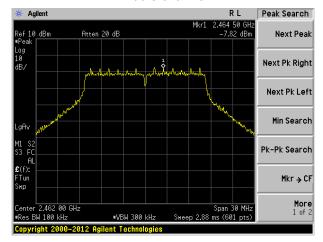
Test mode: 802.11g



Lowest channel



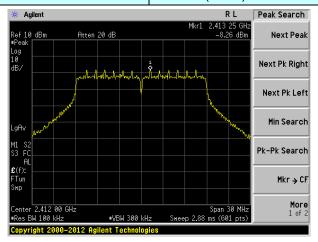
Middle channel



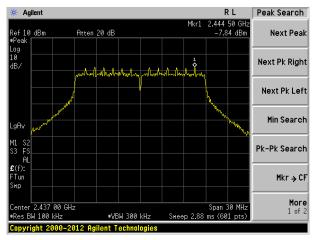
Highest channel



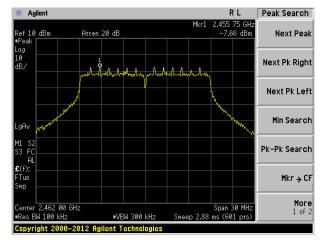
Test mode: 802.11n(HT20)



Lowest channel



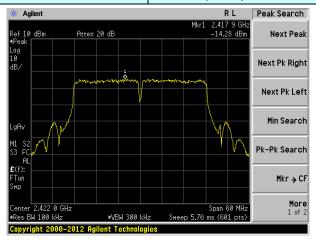
Middle channel



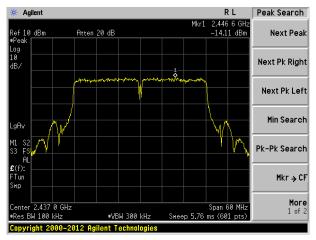
Highest channel



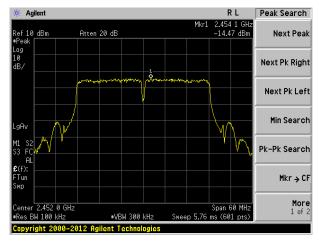
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



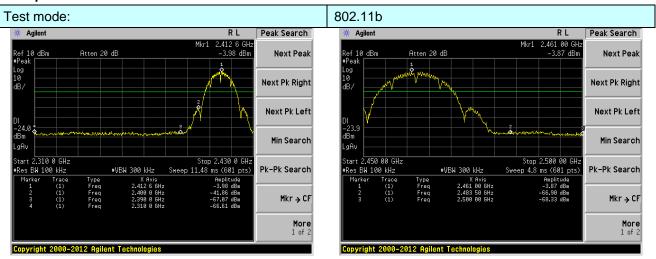
7.6 Band edges

7.6.1 Conducted Emission Method

Toot Doguiroment	FCC Port15 C Coation 15 247 (d)			
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			



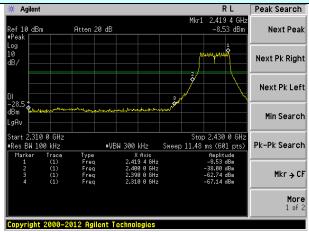
Test plot as follows:



Lowest channel

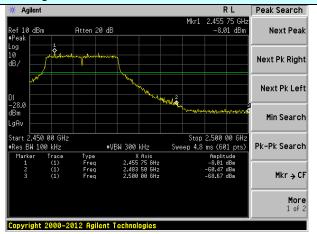
Highest channel

Test mode:



Lowest channel

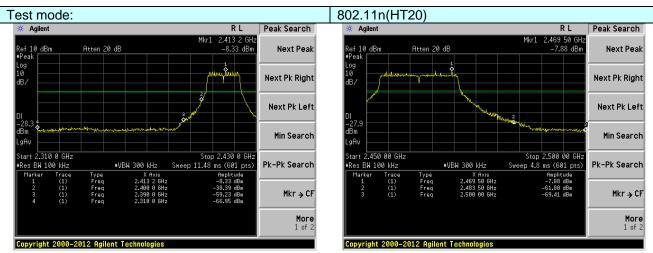
802.11g



Highest channel

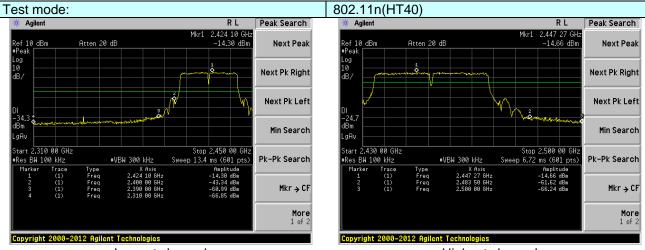
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Lowest channel

Highest channel



Lowest channel

Highest channel



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15.20	9 and 15.205						
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	All of the restric	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.							
	2500MHz) data								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak				
	Above IGHZ	RMS	1MHz	3MHz	Average				
Limit:	Freque	ency	Limit (dBuV/	/m @3m)	Value				
	Above 1	CH-	54.0	0	Average				
	Above 1	GHZ	74.0	0	Peak				
Test setup:	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table 1.5m A A Amplifier								
Test Procedure:									
Test Instruments:	Refer to section		led in the repo	л с.					
		5.3 for detail							
Test mode:									

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Measurement data:

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

Test mode:	802.11b	Test channel:	Lowest
------------	---------	---------------	--------

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
2310.00	51.89	27.59	5.38	34.01	50.85	74.00	-23.15	Horizontal
2390.00	60.99	27.58	5.39	34.01	59.95	74.00	-14.05	Horizontal
2310.00	53.59	27.59	5.38	34.01	52.55	74.00	-21.45	Vertical
2390.00	62.85	27.58	5.39	34.01	61.81	74.00	-12.19	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
2310.00	38.59	27.59	5.38	34.01	37.55	54.00	-16.45	Horizontal
2390.00	46.91	27.58	5.39	34.01	45.87	54.00	-8.13	Horizontal
2310.00	40.42	27.59	5.38	34.01	39.38	54.00	-14.62	Vertical
2390.00	48.05	27.58	5.39	34.01	47.01	54.00	-6.99	Vertical

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

Peak value:

					8			
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	52.66	27.53	5.47	33.92	51.74	74.00	-22.26	Horizontal
2500.00	48.41	27.55	5.49	29.93	51.52	74.00	-22.48	Horizontal
2483.50	54.97	27.53	5.47	33.92	54.05	74.00	-19.95	Vertical
2500.00	50.96	27.55	5.49	29.93	54.07	74.00	-19.93	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
2483.50	38.99	27.53	5.47	33.92	38.07	54.00	-15.93	Horizontal
2500.00	35.04	27.55	5.49	29.93	38.15	54.00	-15.85	Horizontal
2483.50	40.96	27.53	5.47	33.92	40.04	54.00	-13.96	Vertical
2500.00	36.93	27.55	5.49	29.93	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	1g	Te	st channel:	L	owest	
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
2310.00	50.44	27.59	5.38	34.01	49.40	74.00	-24.60	Horizontal
2390.00	59.05	27.58	5.39	34.01	58.01	74.00	-15.99	Horizontal
2310.00	52.04	27.59	5.38	34.01	51.00	74.00	-23.00	Vertical
2390.00	60.52	27.58	5.39	34.01	59.48	74.00	-14.52	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
2310.00	37.55	27.59	5.38	34.01	36.51	54.00	-17.49	Horizontal
2390.00	45.71	27.58	5.39	34.01	44.67	54.00	-9.33	Horizontal
2310.00	39.27	27.59	5.38	34.01	38.23	54.00	-15.77	Vertical
2390.00	46.75	27.58	5.39	34.01	45.71	54.00	-8.29	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	50.58	27.53	5.47	33.92	49.66	74.00	-24.34	Horizontal
2500.00	46.79	27.55	5.49	29.93	49.90	74.00	-24.10	Horizontal
2483.50	52.59	27.53	5.47	33.92	51.67	74.00	-22.33	Vertical
2500.00	49.08	27.55	5.49	29.93	52.19	74.00	-21.81	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.73	27.53	5.47	33.92	36.81	54.00	-17.19	Horizontal
2500.00	34.06	27.55	5.49	29.93	37.17	54.00	-16.83	Horizontal
2483.50	39.57	27.53	5.47	33.92	38.65	54.00	-15.35	Vertical
2500.00 Remark:	35.90	27.55	5.49	29.93	39.01	54.00	-14.99	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.: GTSE15050073401

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
2310.00	50.55	27.59	5.38	34.01	49.51	74.00	-24.49	Horizontal
2390.00	59.19	27.58	5.39	34.01	58.15	74.00	-15.85	Horizontal
2310.00	52.15	27.59	5.38	34.01	51.11	74.00	-22.89	Vertical
2390.00	60.69	27.58	5.39	34.01	59.65	74.00	-14.35	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	37.63	27.59	5.38	34.01	36.59	54.00	-17.41	Horizontal
2390.00	45.80	27.58	5.39	34.01	44.76	54.00	-9.24	Horizontal
2310.00	39.36	27.59	5.38	34.01	38.32	54.00	-15.68	Vertical
2390.00	46.84	27.58	5.39	34.01	45.80	54.00	-8.20	Vertical
Test mode:		802.1	1n(HT20)	Tes	st channel:	H	lighest	
Peak value								
Frequency (MHz)	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Polarization
	(dBuV)	(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	1 Olarization
2483.50	(dBuV) 50.73	(dB/m) 27.53	(dB) 5.47	(dB) 33.92	(dBuV/m) 49.81	(dBuV/m) 74.00		Horizontal
2483.50 2500.00	,	, ,	` '	` ,		,	(dB)	
	50.73	27.53	5.47	33.92	49.81	74.00	(dB) -24.19	Horizontal
2500.00	50.73 46.91	27.53 27.55	5.47 5.49	33.92 29.93	49.81 50.02	74.00 74.00	(dB) -24.19 -23.98	Horizontal Horizontal
2500.00 2483.50	50.73 46.91 52.77 49.22	27.53 27.55 27.53	5.47 5.49 5.47	33.92 29.93 33.92	49.81 50.02 51.85	74.00 74.00 74.00	(dB) -24.19 -23.98 -22.15	Horizontal Horizontal Vertical
2500.00 2483.50 2500.00	50.73 46.91 52.77 49.22	27.53 27.55 27.53	5.47 5.49 5.47	33.92 29.93 33.92	49.81 50.02 51.85	74.00 74.00 74.00	(dB) -24.19 -23.98 -22.15	Horizontal Horizontal Vertical
2500.00 2483.50 2500.00 Average va Frequency	50.73 46.91 52.77 49.22 lue: Read Level	27.53 27.55 27.53 27.55 Antenna Factor	5.47 5.49 5.47 5.49 Cable Loss	33.92 29.93 33.92 29.93 Preamp Factor	49.81 50.02 51.85 52.33	74.00 74.00 74.00 74.00	(dB) -24.19 -23.98 -22.15 -21.67 Over Limit	Horizontal Horizontal Vertical Vertical
2500.00 2483.50 2500.00 Average va Frequency (MHz)	50.73 46.91 52.77 49.22 Iue: Read Level (dBuV)	27.53 27.55 27.53 27.55 Antenna Factor (dB/m)	5.47 5.49 5.47 5.49 Cable Loss (dB)	33.92 29.93 33.92 29.93 Preamp Factor (dB)	49.81 50.02 51.85 52.33 Level (dBuV/m)	74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	(dB) -24.19 -23.98 -22.15 -21.67 Over Limit (dB)	Horizontal Horizontal Vertical Vertical Polarization
2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50	50.73 46.91 52.77 49.22 Iue: Read Level (dBuV) 37.83	27.53 27.55 27.53 27.55 Antenna Factor (dB/m) 27.53	5.47 5.49 5.47 5.49 Cable Loss (dB) 5.47	33.92 29.93 33.92 29.93 Preamp Factor (dB) 33.92	49.81 50.02 51.85 52.33 Level (dBuV/m) 36.91	74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	(dB) -24.19 -23.98 -22.15 -21.67 Over Limit (dB) -17.09	Horizontal Horizontal Vertical Vertical Polarization Horizontal
2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50 2500.00	50.73 46.91 52.77 49.22 lue: Read Level (dBuV) 37.83 34.14	27.53 27.55 27.55 27.55 Antenna Factor (dB/m) 27.53 27.55	5.47 5.49 5.47 5.49 Cable Loss (dB) 5.47 5.49	33.92 29.93 33.92 29.93 Preamp Factor (dB) 33.92 29.93	49.81 50.02 51.85 52.33 Level (dBuV/m) 36.91 37.25	74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	(dB) -24.19 -23.98 -22.15 -21.67 Over Limit (dB) -17.09 -16.75	Horizontal Horizontal Vertical Vertical Polarization Horizontal Horizontal

Test channel:

802.11n(HT20)

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1.

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

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

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Test mode:

Report No.: GTSE15050073401

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
2310.00	49.76	27.59	5.38	34.01	48.72	74.00	-25.28	Horizontal
2390.00	58.14	27.58	5.39	34.01	57.10	74.00	-16.90	Horizontal
2310.00	51.31	27.59	5.38	34.01	50.27	74.00	-23.73	Vertical
2390.00	59.43	27.58	5.39	34.01	58.39	74.00	-15.61	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	37.07	27.59	5.38	34.01	36.03	54.00	-17.97	Horizontal
2390.00	45.16	27.58	5.39	34.01	44.12	54.00	-9.88	Horizontal
2310.00	38.74	27.59	5.38	34.01	37.70	54.00	-16.30	Vertical
2390.00	46.14	27.58	5.39	34.01	45.10	54.00	-8.90	Vertical
•								•
Test mode:		802.1	1n(HT40)	Te	st channel:	H	lighest	
Peak value:	•							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.61	27.53	5.47	33.92	48.69	74.00	-25.31	Horizontal
2500.00	46.04	27.55	5.49	29.93	49.15	74.00	-24.85	Horizontal
2483.50	51.48	27.53	5.47	33.92	50.56	74.00	-23.44	Vertical
2500.00	48.20	27.55	5.49	29.93	51.31	74.00	-22.69	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	37.15	27.53	5.47	33.92	36.23	54.00	-17.77	Horizontal
2500.00	33.61	27.55	5.49	29.93	36.72	54.00	-17.28	Horizontal
2483.50	38.93	27.53	5.47	33.92	38.01	54.00	-15.99	Vertical
2500.00	35.42	27.55	5.49	29.93	38.53	54.00	-15.47	Vertical
Remark:								

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

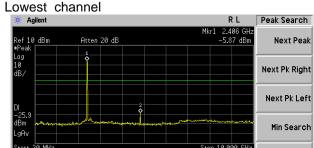
Test Requirement:	FCC Part15 C Section 15.247 (d)			
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional 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			

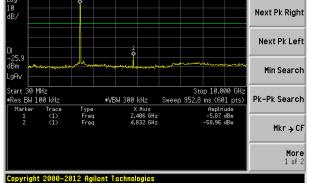


Test plot as follows:

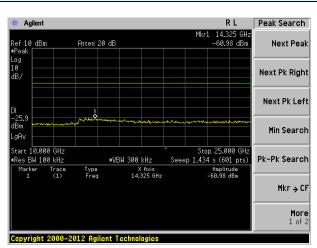
Test mode:

802.11b



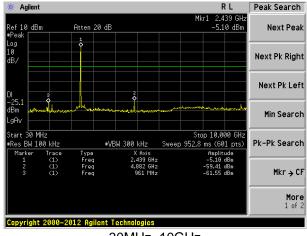


30MHz~10GHz

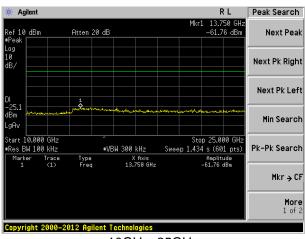


10GHz~25GHz

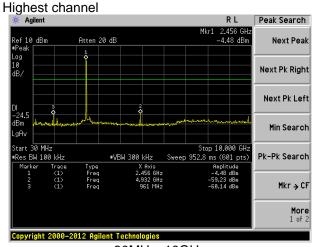
Middle channel



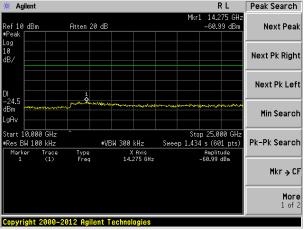
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz

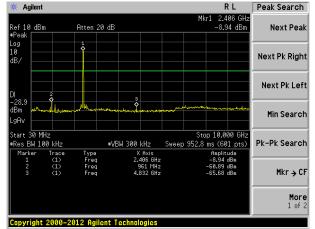
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Test mode:

802.11g

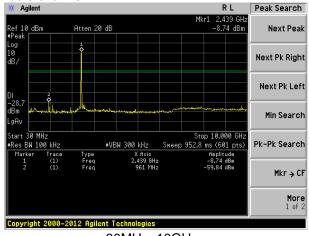
Lowest channel



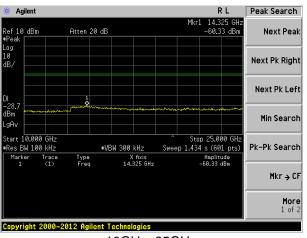
30MHz~10GHz

10GHz~25GHz

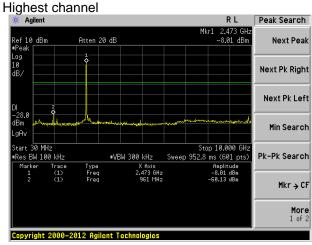
Middle channel



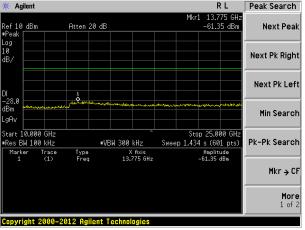
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz



R L

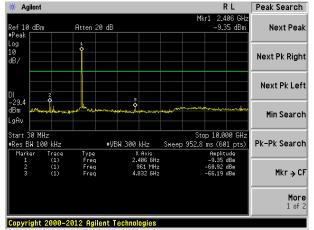
Peak Search

More 1 of 2

Test mode:

802.11n(HT20)

Lowest channel



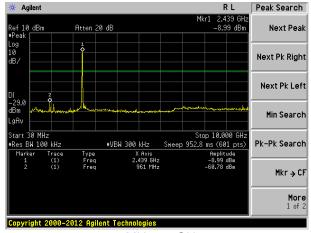
30MHz~10GHz

🗰 Agilent 14.325 GH -61.19 dBm Next Peak Atten 20 dB Next Pk Right Next Pk Left Min Search Start 10.000 GHz ■Res BW 100 kHz Stop 25.000 GH: Sweep 1.434 s (601 pts) Pk-Pk Search #VBW 300 kHz Amplitude -61.19 dBm X Axis 14.325 GHz Mkr → CF

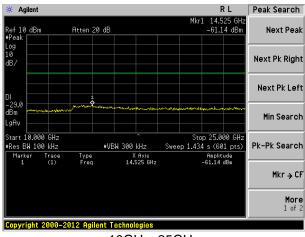
10GHz~25GHz

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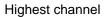
Middle channel

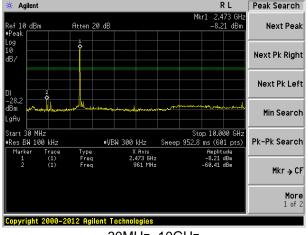


30MHz~10GHz

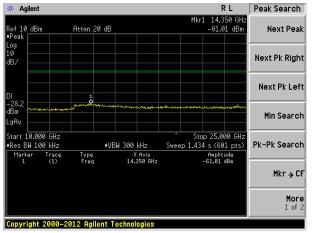


10GHz~25GHz





30MHz~10GHz



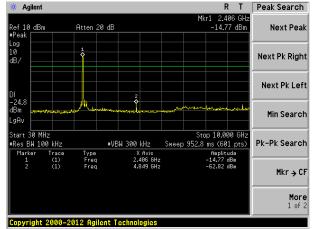
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

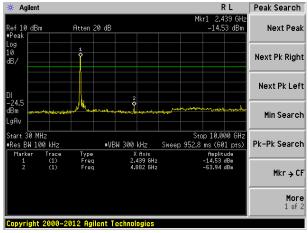


30MHz~10GHz

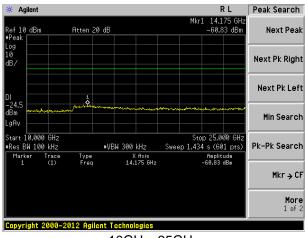
Peak Search 14.175 GHz -60.91 dBm Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH: Sweep 1.434 s (601 pts) ■Res BW 100 kHz #VBW 300 kHz Pk-Pk Search X Axis 14.175 GHz Amplitude -60.91 dBm Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

Middle channel

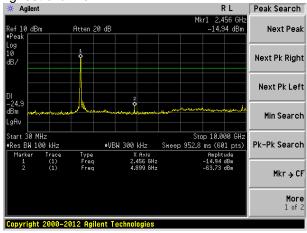


30MHz~10GHz

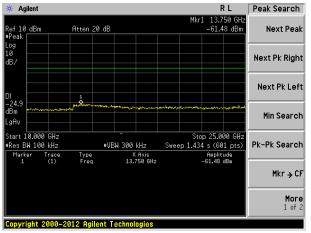


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209									
Test Method:	ANSI C63.10:201	13									
Test Frequency Range:	30MHz to 25GHz	30MHz to 25GHz									
Test site:	Measurement Dis	Measurement Distance: 3m									
Receiver setup:	Frequency										
	30MHz-1GHz	30MHz-1GHz Quasi-peak 120KHz 300KHz									
	Above 1CHz	30MHz-1GHz Quasi-peak 120KHz 300KHz Above 1GHz Peak 1MHz 3MHz RMS 1MHz 3MHz									
	Above 1G112	RMS	1MHz	3MHz	Average						
Limit:	Frequen	cy I	_imit (dBuV	/m @3m)	Value						
	30MHz-88	MHz	40.0	0	Quasi-peak						
	88MHz-216	6MHz	43.5	0	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									
	Turn O.8m Table O.8m Above 1GHz Turn Table V.15m	4m	, s	Antenna Tower Horn Antenna Spectrum Analyzer							



Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	5. 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
32.52	50.06	14.31	0.58	30.08	34.87	40.00	-5.13	Vertical
50.06	47.61	15.25	0.77	30.00	33.63	40.00	-6.37	Vertical
70.09	48.41	10.65	0.94	29.85	30.15	40.00	-9.85	Vertical
128.11	43.78	11.22	1.42	29.52	26.90	43.50	-16.60	Vertical
178.76	43.87	11.62	1.73	29.28	27.94	43.50	-15.56	Vertical
268.49	36.83	14.34	2.21	29.79	23.59	46.00	-22.41	Vertical
31.18	37.10	14.32	0.56	30.09	21.89	40.00	-18.11	Horizontal
55.22	37.95	15.00	0.82	29.96	23.81	40.00	-16.19	Horizontal
86.81	39.97	12.89	1.08	29.76	24.18	40.00	-15.82	Horizontal
151.07	49.45	10.29	1.58	29.40	31.92	43.50	-11.58	Horizontal
245.09	41.00	14.08	2.10	29.61	27.57	46.00	-18.43	Horizontal
310.00	40.91	15.19	2.42	29.94	28.58	46.00	-17.42	Horizontal



Above 1GHz

Test mode:		802.11b		Test	channel:	Lowe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.93	31.79	8.62	32.10	49.24	74.00	-24.76	Vertical
7236.00	34.62	36.19	11.68	31.97	50.52	74.00	-23.48	Vertical
9648.00	33.00	38.07	14.16	31.56	53.67	74.00	-20.33	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.50	31.79	8.62	32.10	47.81	74.00	-26.19	Horizontal
7236.00	34.32	36.19	11.68	31.97	50.22	74.00	-23.78	Horizontal
9648.00	32.56	38.07	14.16	31.56	53.23	74.00	-20.77	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	29.97	31.79	8.62	32.10	38.28	54.00	-15.72	Vertical
7236.00	23.48	36.19	11.68	31.97	39.38	54.00	-14.62	Vertical
9648.00	23.34	38.07	14.16	31.56	44.01	54.00	-9.99	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	29.01	31.79	8.62	32.10	37.32	54.00	-16.68	Horizontal
7236.00	22.89	36.19	11.68	31.97	38.79	54.00	-15.21	Horizontal
9648.00	22.30	38.07	14.16	31.56	42.97	54.00	-11.03	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

Project No.: GTSE150500734RF

^{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	39.88	31.85	8.66	32.12	48.27	74.00	-25.73	Vertical
7311.00	34.62	36.37	11.71	31.91	50.79	74.00	-23.21	Vertical
9748.00	33.97	38.27	14.25	31.56	54.93	74.00	-19.07	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.28	31.85	8.66	32.12	48.67	74.00	-25.33	Horizontal
7311.00	33.22	36.37	11.71	31.91	49.39	74.00	-24.61	Horizontal
9748.00	33.84	38.27	14.25	31.56	54.80	74.00	-19.20	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.69	31.85	8.66	32.12	39.08	54.00	-14.92	Vertical
7311.00	22.93	36.37	11.71	31.91	39.10	54.00	-14.90	Vertical
9748.00	23.22	38.27	14.25	31.56	44.18	54.00	-9.82	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.36	31.85	8.66	32.12	38.75	54.00	-15.25	Horizontal
7311.00	22.30	36.37	11.71	31.91	38.47	54.00	-15.53	Horizontal
9748.00	23.55	38.27	14.25	31.56	44.51	54.00	-9.49	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	45.79	31.90	8.70	32.15	54.24	74.00	-19.76	Vertical
7386.00	35.54	36.49	11.76	31.83	51.96	74.00	-22.04	Vertical
9848.00	37.44	38.62	14.31	31.77	58.60	74.00	-15.40	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.95	31.90	8.70	32.15	53.40	74.00	-20.60	Horizontal
7386.00	34.37	36.49	11.76	31.83	50.79	74.00	-23.21	Horizontal
9848.00	33.58	38.62	14.31	31.77	54.74	74.00	-19.26	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	36.63	31.90	8.70	32.15	45.08	54.00	-8.92	Vertical
7386.00	25.44	36.49	11.76	31.83	41.86	54.00	-12.14	Vertical
9848.00	25.93	38.62	14.31	31.77	47.09	54.00	-6.91	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	35.27	31.90	8.70	32.15	43.72	54.00	-10.28	Horizontal
7386.00	23.74	36.49	11.76	31.83	40.16	54.00	-13.84	Horizontal
9848.00	22.82	38.62	14.31	31.77	43.98	54.00	-10.02	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		Tes	t 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	39.77	31.79	8.62	32.10	48.08	74.00	-25.92	Vertical
7236.00	33.89	36.19	11.68	31.97	49.79	74.00	-24.21	Vertical
9648.00	32.48	38.07	14.16	31.56	53.15	74.00	-20.85	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.52	31.79	8.62	32.10	46.83	74.00	-27.17	Horizontal
7236.00	33.68	36.19	11.68	31.97	49.58	74.00	-24.42	Horizontal
9648.00	32.07	38.07	14.16	31.56	52.74	74.00	-21.26	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	28.90	31.79	8.62	32.10	37.21	54.00	-16.79	Vertical
7236.00	22.77	36.19	11.68	31.97	38.67	54.00	-15.33	Vertical
9648.00	22.83	38.07	14.16	31.56	43.50	54.00	-10.50	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	28.09	31.79	8.62	32.10	36.40	54.00	-17.60	Horizontal
7236.00	22.27	36.19	11.68	31.97	38.17	54.00	-15.83	Horizontal
9648.00	21.83	38.07	14.16	31.56	42.50	54.00	-11.50	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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



Test mode:		802.11g		Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.92	31.85	8.66	32.12	47.31	74.00	-26.69	Vertical
7311.00	34.02	36.37	11.71	31.91	50.19	74.00	-23.81	Vertical
9748.00	33.54	38.27	14.25	31.56	54.50	74.00	-19.50	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.46	31.85	8.66	32.12	47.85	74.00	-26.15	Horizontal
7311.00	32.69	36.37	11.71	31.91	48.86	74.00	-25.14	Horizontal
9748.00	33.44	38.27	14.25	31.56	54.40	74.00	-19.60	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	29.80	31.85	8.66	32.12	38.19	54.00	-15.81	Vertical
7311.00	22.34	36.37	11.71	31.91	38.51	54.00	-15.49	Vertical
9748.00	22.80	38.27	14.25	31.56	43.76	54.00	-10.24	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.60	31.85	8.66	32.12	37.99	54.00	-16.01	Horizontal
7311.00	21.79	36.37	11.71	31.91	37.96	54.00	-16.04	Horizontal
9748.00	23.16	38.27	14.25	31.56	44.12	54.00	-9.88	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	44.14	31.90	8.70	32.15	52.59	74.00	-21.41	Vertical
7386.00	34.49	36.49	11.76	31.83	50.91	74.00	-23.09	Vertical
9848.00	36.69	38.62	14.31	31.77	57.85	74.00	-16.15	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.56	31.90	8.70	32.15	52.01	74.00	-21.99	Horizontal
7386.00	33.45	36.49	11.76	31.83	49.87	74.00	-24.13	Horizontal
9848.00	32.89	38.62	14.31	31.77	54.05	74.00	-19.95	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:		•					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	35.11	31.90	8.70	32.15	43.56	54.00	-10.44	Vertical
7386.00	24.43	36.49	11.76	31.83	40.85	54.00	-13.15	Vertical
9848.00	25.21	38.62	14.31	31.77	46.37	54.00	-7.63	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.96	31.90	8.70	32.15	42.41	54.00	-11.59	Horizontal
7386.00	22.86	36.49	11.76	31.83	39.28	54.00	-14.72	Horizontal
9848.00	22.16	38.62	14.31	31.77	43.32	54.00	-10.68	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11n(H	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	40.14	31.79	8.62	32.10	48.45	74.00	-25.55	Vertical
7236.00	34.12	36.19	11.68	31.97	50.02	74.00	-23.98	Vertical
9648.00	32.64	38.07	14.16	31.56	53.31	74.00	-20.69	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.83	31.79	8.62	32.10	47.14	74.00	-26.86	Horizontal
7236.00	33.88	36.19	11.68	31.97	49.78	74.00	-24.22	Horizontal
9648.00	32.23	38.07	14.16	31.56	52.90	74.00	-21.10	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	29.23	31.79	8.62	32.10	37.54	54.00	-16.46	Vertical
7236.00	22.99	36.19	11.68	31.97	38.89	54.00	-15.11	Vertical
9648.00	22.99	38.07	14.16	31.56	43.66	54.00	-10.34	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.38	31.79	8.62	32.10	36.69	54.00	-17.31	Horizontal
7236.00	22.47	36.19	11.68	31.97	38.37	54.00	-15.63	Horizontal
9648.00	21.98	38.07	14.16	31.56	42.65	54.00	-11.35	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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



Test mode:		802.11n(H	IT20)	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	39.22	31.85	8.66	32.12	47.61	74.00	-26.39	Vertical
7311.00	34.21	36.37	11.71	31.91	50.38	74.00	-23.62	Vertical
9748.00	33.67	38.27	14.25	31.56	54.63	74.00	-19.37	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.72	31.85	8.66	32.12	48.11	74.00	-25.89	Horizontal
7311.00	32.86	36.37	11.71	31.91	49.03	74.00	-24.97	Horizontal
9748.00	33.57	38.27	14.25	31.56	54.53	74.00	-19.47	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	30.08	31.85	8.66	32.12	38.47	54.00	-15.53	Vertical
7311.00	22.53	36.37	11.71	31.91	38.70	54.00	-15.30	Vertical
9748.00	22.93	38.27	14.25	31.56	43.89	54.00	-10.11	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.84	31.85	8.66	32.12	38.23	54.00	-15.77	Horizontal
7311.00	21.95	36.37	11.71	31.91	38.12	54.00	-15.88	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:		802.11n(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	44.66	31.90	8.70	32.15	53.11	74.00	-20.89	Vertical
7386.00	34.82	36.49	11.76	31.83	51.24	74.00	-22.76	Vertical
9848.00	36.93	38.62	14.31	31.77	58.09	74.00	-15.91	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.00	31.90	8.70	32.15	52.45	74.00	-21.55	Horizontal
7386.00	33.74	36.49	11.76	31.83	50.16	74.00	-23.84	Horizontal
9848.00	33.11	38.62	14.31	31.77	54.27	74.00	-19.73	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	35.59	31.90	8.70	32.15	44.04	54.00	-9.96	Vertical
7386.00	24.74	36.49	11.76	31.83	41.16	54.00	-12.84	Vertical
9848.00	25.43	38.62	14.31	31.77	46.59	54.00	-7.41	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.37	31.90	8.70	32.15	42.82	54.00	-11.18	Horizontal
7386.00	23.14	36.49	11.76	31.83	39.56	54.00	-14.44	Horizontal
9848.00	22.37	38.62	14.31	31.77	43.53	54.00	-10.47	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11n(H	IT40)	Test	channel:	Lowe	est	
Peak value:		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
4844.00	39.01	31.81	8.63	32.11	47.34	74.00	-26.66	Vertical
7266.00	33.41	36.28	11.69	31.94	49.44	74.00	-24.56	Vertical
9688.00	32.13	38.13	14.21	31.52	52.95	74.00	-21.05	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	37.88	31.81	8.63	32.11	46.21	74.00	-27.79	Horizontal
7266.00	33.26	36.28	11.69	31.94	49.29	74.00	-24.71	Horizontal
9688.00	31.76	38.13	14.21	31.52	52.58	74.00	-21.42	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
16884.00						74.00		Horizon

Average value:

5								
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	28.20	31.81	8.63	32.11	36.53	54.00	-17.47	Vertical
7266.00	22.30	36.28	11.69	31.94	38.33	54.00	-15.67	Vertical
9688.00	22.50	38.13	14.21	31.52	43.32	54.00	-10.68	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.49	31.81	8.63	32.11	35.82	54.00	-18.18	Horizontal
7266.00	21.86	36.28	11.69	31.94	37.89	54.00	-16.11	Horizontal
9688.00	21.53	38.13	14.21	31.52	42.35	54.00	-11.65	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	n(HT40) Test channel:		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	38.29	31.85	8.66	32.12		46.68	74.00		-27.32	Vertical
7311.00	33.62	36.37	11.71	31.91		49.79	74.00		-24.21	Vertical
9748.00	33.25	38.27	14.25	31.56		54.21	74.00		-19.79	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	38.93	31.85	8.66	32	2.12	47.32	74.00		-26.68	Horizontal
7311.00	32.34	36.37	11.71	31.91		48.51	74.00		-25.49	Horizontal
9748.00	33.18	38.27	14.25	31.56		54.14	74.00		-19.86	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 dB)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4874.00	29.23	31.85	8.66	32	2.12	37.62	54.	00	-16.38	Vertical
7311.00	21.96	36.37	11.71	31	.91	38.13	54.	00	-15.87	Vertical
9748.00	22.53	38.27	14.25	31	.56	43.49	54.	00	-10.51	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	29.10	31.85	8.66	32.12		37.49	54.	00	-16.51	Horizontal
7311.00	21.45	36.37	11.71	31	.91	37.62	54.	00	-16.38	Horizontal
9748.00	22.91	38.27	14.25	31	.56	43.87	54.	00	-10.13	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*						54.	00		Horizontal

Remark:

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



Test mode:	de: 802.11n(HT40) Test ch		channel:	nnel: 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	43.05	31.88	8.68	32.13	51.48	74.00	-22.52	Vertical
7356.00	33.81	36.45	11.75	31.86	50.15	74.00	-23.85	Vertical
9808.00	36.20	38.43	14.29	31.68	57.24	74.00	-16.76	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	42.64	31.88	8.68	32.13	51.07	74.00	-22.93	Horizontal
7356.00	32.86	36.45	11.75	31.86	49.20	74.00	-24.80	Horizontal
9808.00	32.44	38.43	14.29	31.68	53.48	74.00	-20.52	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	34.11	31.88	8.68	32.13	42.54	54.00	-11.46	Vertical
7356.00	23.77	36.45	11.75	31.86	40.11	54.00	-13.89	Vertical
9808.00	24.74	38.43	14.29	31.68	45.78	54.00	-8.22	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	33.10	31.88	8.68	32.13	41.53	54.00	-12.47	Horizontal
7356.00	22.28	36.45	11.75	31.86	38.62	54.00	-15.38	Horizontal
9808.00	21.72	38.43	14.29	31.68	42.76	54.00	-11.24	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

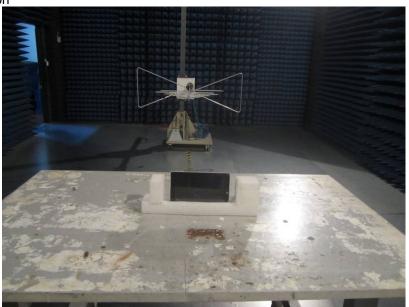
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{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





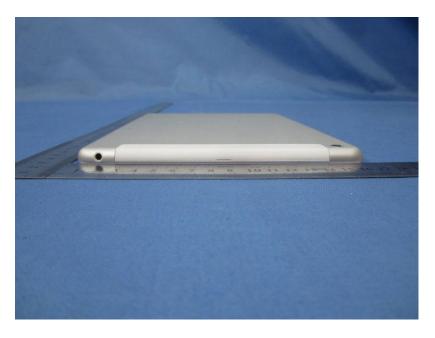




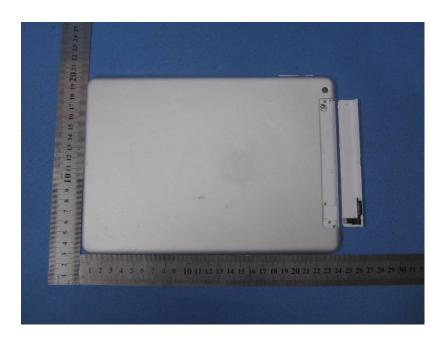






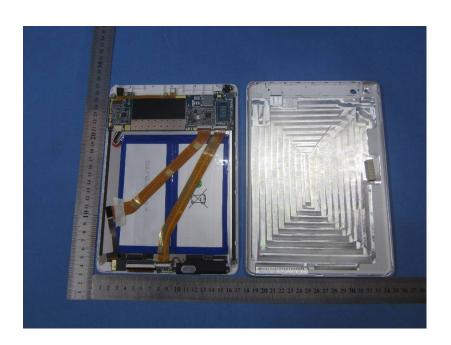


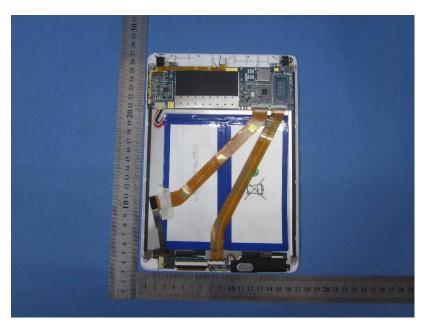




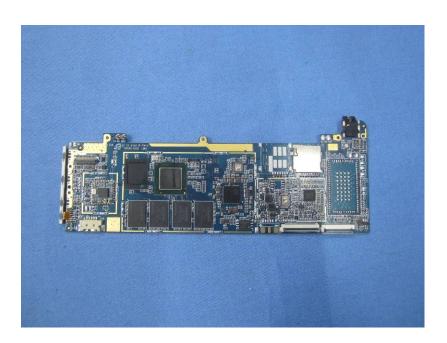


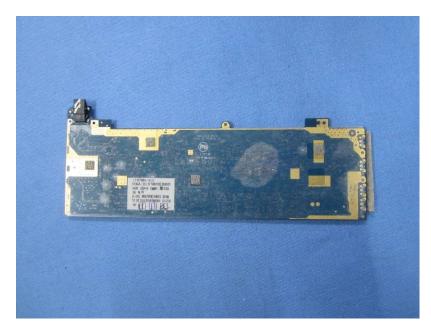




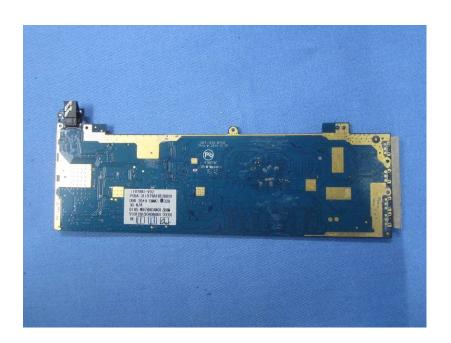








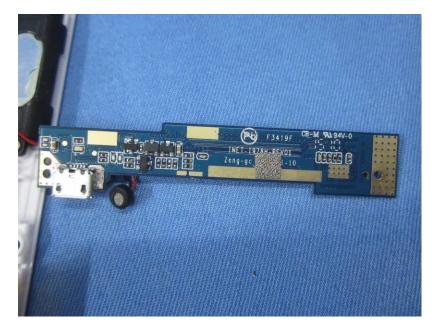






















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