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Report No.: EBO1411112-E294

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# FCC Report (WIFI)

**Applicant:** Shenzhen Firstview Electronic Co. Ltd.

Address of Applicant: 3-4/F, Block B, Huafeng 1st Technology Zone Baoan Main

Road, Baoan District, Shenzhen, China

**Equipment Under Test (EUT)** 

Product Name: 8.95 inch Tablet PC

Model No.: VTA089001, VTA089001S, VTA089001E, M8941

FCC ID: YW5VTA089001

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

Date of sample receipt: November 26, 2014

Date of Test: November 26, 2014 To December 5, 2014

Date of report issued: December 5, 2014

Test Result: PASS \*

Authorized Signature:

Kevin Yu 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 EBO 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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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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### 2 Version

Version No.	Date	Description
00	December 5, 2014	Original

Prepared By:	Jason	Date:	December 5, 2014
	Project Engineer	<del></del>	
Check By:	Cenyv	Date:	December 5, 2014



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# 4 Test Summary

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

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



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### 5 General Information

### 5.1 Client Information

	Applicant:	Shenzhen Firstview Electronic Co. Ltd.
	Address of Applicant:	3-4/F, Block B, Huafeng 1st Technology Zone Baoan Main Road, Baoan
		District, Shenzhen, China
	Manufacturer:	Shenzhen Firstview Electronic Co., Ltd.
Ī	Address of Manufacturer:	F3-6, Block B, Huafeng 1st Technology Zone, Baoan Main Road, Baoan
		District, Shenzhen, P.R.China

### 5.2 General Description of EUT

Product Name:	8.95 inch Tablet PC
Model No.:	VTA089001, VTA089001S, VTA089001E, M8941
Test Model No.:	VTA089001
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:	1.74dBi (declare by Applicant)
Power supply:	Input: DC 5V, 2000mA from adapter
	Or
	DC 3.7V, 5000mAh Li-ion Battery



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Operation Frequency each of channel									
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:

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

### 5.3 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode dutycycle >98%

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

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

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

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

### 5.4 Description of Support Units

None



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### 5.5 Test Facility

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

### CNAS —Registration No.: CNAS L5775

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

### • FCC —Registration No.: 600491

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

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

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

### 5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

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



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### 6 Test Instruments list

Rad	Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 29 2014	Mar. 28 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	Jul. 01 2014	Jun 30 2015		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	July 01 2014	June 30 2015		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July 01 2014	June 30 2015		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 28 2014	Mar. 27 2015		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 29 2014	Mar. 28 2015		
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 29 2014	Mar. 28 2015		
11	Coaxial Cable	GTS	N/A	GTS210	Mar. 29 2014	Mar. 28 2015		
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 29 2014	Mar. 28 2015		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	July 01 2014	June 30 2015		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July 01 2014	June 30 2015		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015		
16	Band filter	Amindeon	82346	GTS219	Mar. 29 2014	Mar. 28 2015		
17	Power Meter	Anritsu	ML2495A	GTS540	July 01 2014	June 30 2015		
18	Power Sensor	Anritsu	MA2411B	GTS541	July 01 2014	June 30 2015		

Cond	Conducted Emission:								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)			
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Jul. 01 2014	Jun. 30, 2015			
2	<b>EMI Test Receiver</b>	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			



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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 integral antenna, the best case gain of the antenna is 1.74dBi



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### 7.2 Conducted Emissions

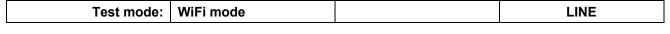
Test Requirement:	FCC Part15 C Section 15.207	,					
Test Method:	ANSI C63.4:2003						
Test Frequency Range:	150KHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9KHz, VBW=30KHz, St	ween time=auto					
	105V=31(12, VBV=301(12, 3	Limit (c	NP\/\				
Limit:	Frequency range (MHz)	Quasi-peak	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   EMI   Receiver    Remark: E.U.T. Equipment Under Test   LISN: Line impedence Stabilization Network   Test table height=0.8m						
Test procedure:	<ol> <li>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.</li> <li>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).</li> </ol>						
	3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.						
Test Instruments:	Refer to section 6.0 for details	3					
Test mode:	Refer to section 5.3 for details	3					
Test results:	Pass						

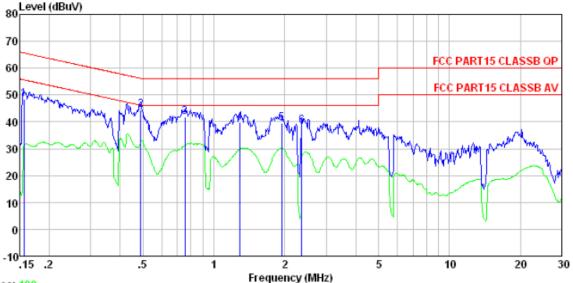


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### Measurement data:





Trace: 190

Site Condition

5

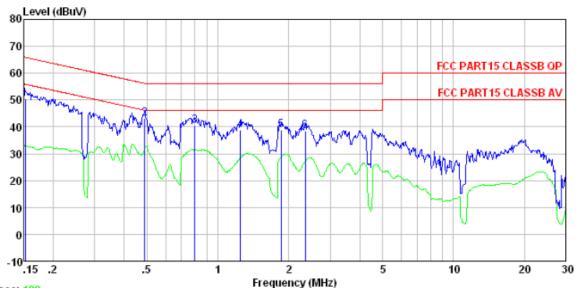
: Shielded room

n	:		RT15 CLA						
		Read	LISN	Cable		Limit	Over		
	Frea	Level	Factor	Loss	Level	Line	Limit	Remark	
	MHz	dBuV	dB	dB	<u>dBuV</u>	dBuV	dB		_
	31112	aba,	and the same	and the same	aba,	and a r	· ·		
	156	48.13	0.15	0.12	48.40	65 65	_17 25	OP	
- (	J. 150	40.10	0.15	0.12	40.40	05.05	-11.25	ØL.	
- (	). 489	44.21	0.12	0.11	44.44	56.19	-11.75	QP	
(	). 755	41.45	0.14	0.13	41.72	56.00	-14.28	QP	
		39. 47			39.72				
_									
1	. 939	39.31	0.12	0.14	39.57	56.00	-16.43	QP	
- 2	2. 358	38.12	0.13	0.15	38.40	56.00	-17.60	QP	



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Trace: 188

Site Condition : Shielded room

ondition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

	Freq		Factor			Limit	Over Limit	Remark
	MHz	dBu₹	dB	dB	dBuV	dBuV	dB	
1 2 3 4 5 6	0. 489 0. 800 1. 249	50. 15 42. 85 40. 32 38. 55 38. 58 38. 13		0.11 0.13 0.13 0.14	40. 52 38. 76 38. 81	56.19 56.00 56.00 56.00	-13.17 -15.48 -17.24	QP QP QP QP

#### Notes:

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



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### 7.3 Conducted 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:	Power Meter  E.U.T  Non-Conducted Table  Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

#### **Measurement Data**

Test CH		Output	Limit(dBm)	Result			
rest Cri	802.11b	802.11g	.11g 802.11n(HT20) 802.11n(HT4		Limit(ubin)	Nesull	
Lowest	8.36	7.88	7.72	6.88			
Middle	8.22	7.65	7.55	6.81	30.00	Pass	
Highest	8.13	7.59	7.42	6.70			



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### 7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)				
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03				
Limit:	>500KHz				
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

#### **Measurement Data**

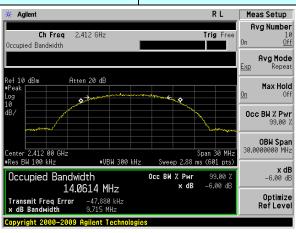
		Channel Ba					
Test CH	802.11b 802.11g 802.11r		802.11n(HT20 )	.11n(HT20   802.11n(HT40		Result	
Lowest	9.715	16.539	17.769	36.469			
Middle	9.286	16.514	17.686	36.439	>500	Pass	
Highest	10.234	16.542	17.687	36.434			

### Test plot as follows:

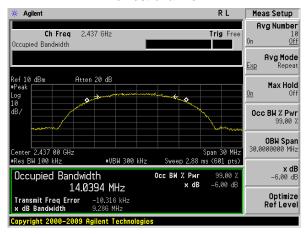


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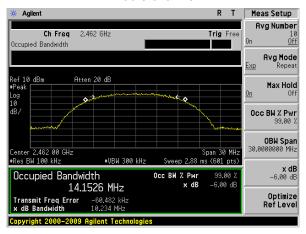
Test mode: 802.11b



#### Lowest channel



#### Middle channel

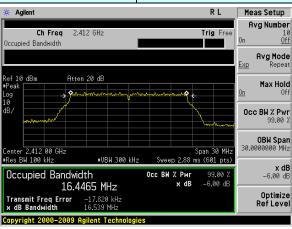


Highest channel

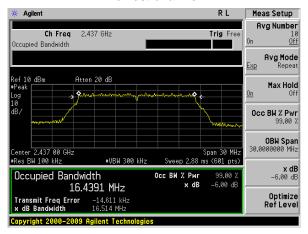


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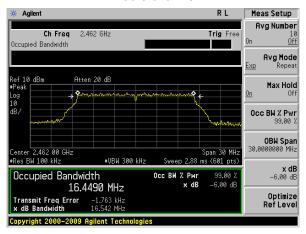
Test mode: 802.11g



#### Lowest channel



#### Middle channel

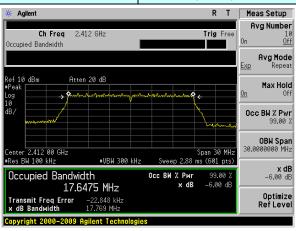


Highest channel

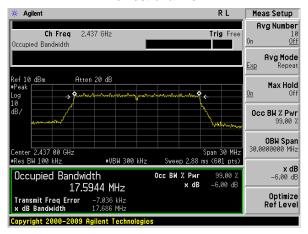


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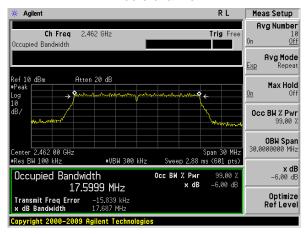
Test mode: 802.11n(HT20)



#### Lowest channel



#### Middle channel

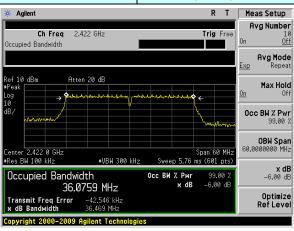


Highest channel

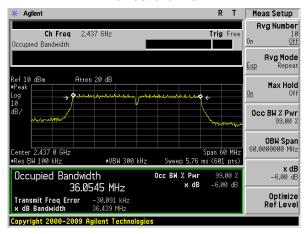


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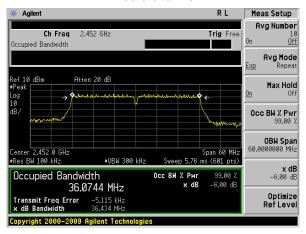
Test mode: 802.11n(HT40)



#### Lowest channel



#### Middle channel

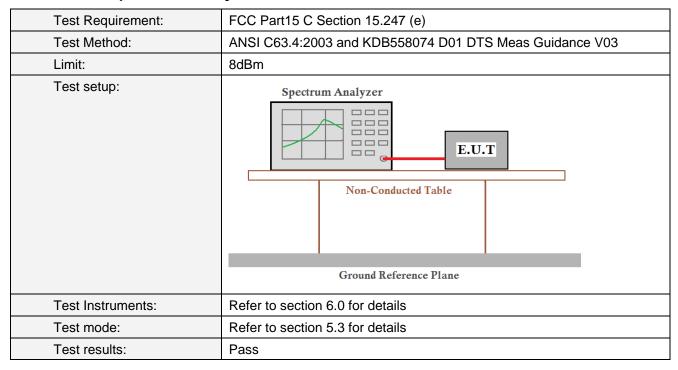


Highest channel



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### 7.5 Power Spectral Density



#### **Measurement Data**

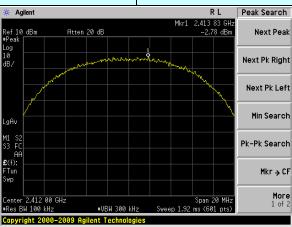
		Power Spect	Limit(dBm/3kHz				
Test CH	802.11b 802.11g 802.11n(HT		802.11n(HT20 )	802.11n(HT40 )	)	Result	
Lowest	-2.78	-4.05	-4.00	-6.05		Pass	
Middle	-2.55	-3.99	-3.69	-5.78	8.00		
Highest	-2.52	-3.40	-3.37	-5.64			



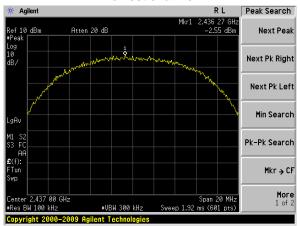
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### Test plot as follows:

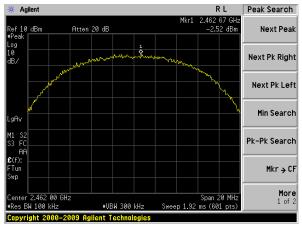
Test mode: 802.11b



#### Lowest channel



#### Middle channel

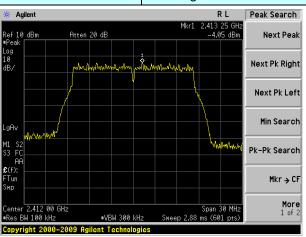


Highest channel

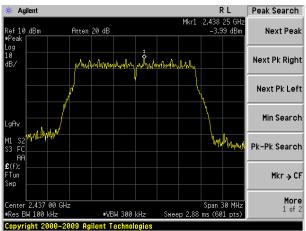


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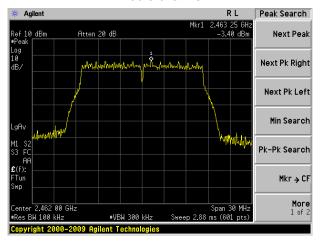
Test mode: 802.11g



### Lowest channel



#### Middle channel

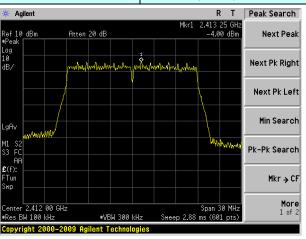


### Highest channel

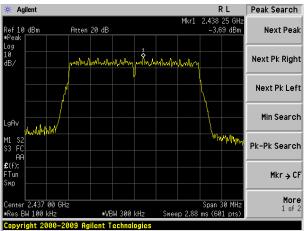


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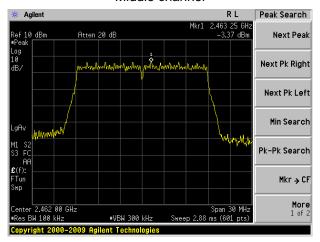
Test mode: 802.11n(HT20)



#### Lowest channel



### Middle channel

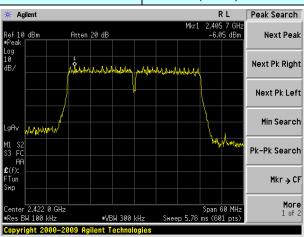


### Highest channel

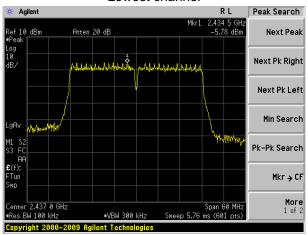


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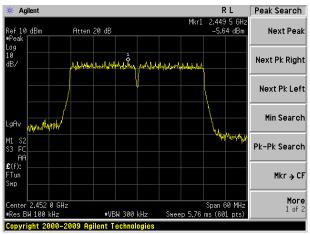
Test mode: 802.11n(HT40)



#### Lowest channel



### Middle channel



### Highest channel



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### 7.6 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 30 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					



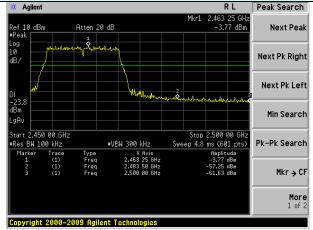
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### Test plot as follows:

#### 802.11b Test mode: Peak Search RL Agilent R T Peak Search Next Peak Next Peak Next Pk Right Next Pk Right Next Pk Left Next Pk Left Min Search Min Search Stop 2.430 0 GHz Stop 2.500 00 GH: Sweep 4.8 ms (601 pts) .310 0 GHz 450 00 GHz Start Sweep 11.48 ms (601 pts) Pk-Pk Search Pk-Pk Search Mkr → CF Mkr → CF More 1 of 2 More 1 of 2 Copyright 2000-2009 Agilent Technologies Copyright 2000-2009 Agilent Technologies Lowest channel Highest channel

Test mode: 802.11g



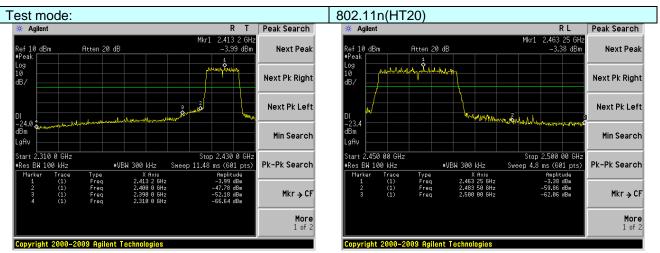


Lowest channel

Highest channel

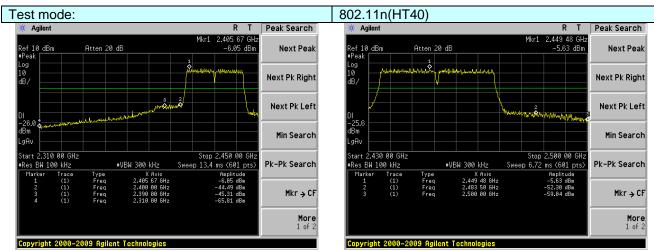


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Lowest channel

Highest channel



Lowest channel

Highest channel



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### 7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205							
Test Method:	ANSI C63.4: 2003							
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2390MHz to 2500MHz) data was showed.							
Test site:	Measurement D							
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
,		Peak	1MHz	3MHz	Peak			
	Above 1GHz	RMS	1MHz	3MHz	Average			
Limit:	Freque		Limit (dBuV/		Value			
			54.0		Average			
	Above 1	GHz	74.0		Peak			
Test setup:	EUT Turn Table	4m Spectrum Analyzer						
Test Procedure:	the ground a determine the 2. The EUT was antenna, whi tower.  3. The antenna ground to de horizontal an measurement.  4. For each sus and then the and the rotathe maximum.  5. The test-recesspecified Ba.  6. If the emission the limit specified ba.  6. If the emission the limit specified ba.  7. The radiation and found the country and found the country and seed.	t a 3 meter can be position of the set 3 meters ch was mounted the mass of the	mber. The take highest race away from the don the top d from one maximum value rizations of the con, the EUT uned to heiged from 0 degras set to Pealaximum Hole EUT in peaking could be ed. Otherwise re-tested on a specified arts are performoning which i	ole was rotadiation. The interference of a variable of the field one antennatives arrange of the field of the	r meters above the distrength. Both are set to make the ed to its worst case meter to 4 meters 0 degrees to find function and 10dB lower than and the peak values sions that did not using peak, quasi-			



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Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass



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Measurement data:

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				t channel:		Lowest			
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	52.09	27.59	5.38	34.01		51.05	74.00	-22.95	Horizontal
2400.00	65.97	27.58	5.39	34.01		64.93	74.00	-9.07	Horizontal
2390.00	53.81	27.59	5.38	34.01		52.77	74.00	-21.23	Vertical
2400.00	68.06	27.58	5.39	34.01		67.02	74.00	-6.98	Vertical
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	38.73	27.59	5.38	34.01		37.69	54.00	-16.31	Horizontal
2400.00	51.65	27.58	5.39	34.01		50.61	54.00	-3.39	Horizontal
2390.00	40.58	27.59	5.38	34.01		39.54	54.00	-14.46	Vertical
2400.00	52.60	27.58	5.39	34.01		51.56	54.00	-2.44	Vertical
Test mode:		802.1	1b		Tes	t channel:		Highest	
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	52.94	27.53	5.47	33.92	2	52.02	74.00	-21.98	Horizontal
2500.00	48.62	27.55	5.49	29.93	3	51.73	74.00	-22.27	Horizontal
2483.50	55.29	27.53	5.47	33.92	2	54.37	74.00	-19.63	Vertical
2500.00	51.22	27.55	5.49	29.93	3	54.33	74.00	-19.67	Vertical
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	39.16	27.53	5.47	33.92	2	38.24	54.00	-15.76	Horizontal
2500.00	35.18	27.55	5.49	29.93	3	38.29	54.00	-15.71	Horizontal
2483.50	41.14	27.53	5.47	33.92	2	40.22	54.00	-13.78	Vertical
2500.00	37.07	27.55	5.49	29.93	3	40.18	54.00	-13.82	Vertical
Remark:				,					

- 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.



802.11a

Test mode:

# Shenzhen EBO Technology Co., Ltd.

Test channel:

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Lowest

rest mode:		802.1	19	res	st channel:		Lowest	
Peak value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.98	27.59	5.38	34.01	48.94	74.00	-25.06	Horizontal
2400.00	63.15	27.58	5.39	34.01	62.11	74.00	-11.89	Horizontal
2390.00	51.55	27.59	5.38	34.01	50.51	74.00	-23.49	Vertical
2400.00	64.67	27.58	5.39	34.01	63.63	74.00	-10.37	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	34.01	36.18	54.00	-17.82	Horizontal
2400.00	49.92	27.58	5.39	34.01	48.88	54.00	-5.12	Horizontal
2390.00	38.91	27.59	5.38	34.01	37.87	54.00	-16.13	Vertical
2400.00	50.70	27.58	5.39	34.01	49.66	54.00	-4.34	Vertical
Test mode:		802.1	1g	Te	st channel:		Highest	
Peak value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.92	27.53	5.47	33.92	49.00	74.00	-25.00	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	33.92	50.92	74.00	-23.08	Vertical
2500.00	48.48	27.55	5.49	29.93	51.59	74.00	-22.41	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	37.34	27.53	5.47	33.92	36.42	54.00	-17.58	Horizontal
2500.00	33.76	27.55	5.49	29.93	36.87	54.00	-17.13	Horizontal
2483.50	39.13	27.53	5.47	33.92	38.21	54.00	-15.79	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
- The emission levels of other frequencies are very lower than the limit and not show in test report.



Test mode:

# Shenzhen EBO Technology Co., Ltd.

Test channel:

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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	50.75	27.59	5.38	34.01	49.71	74.00	-24.29	Horizontal
2400.00	64.18	27.58	5.39	34.01	63.14	74.00	-10.86	Horizontal
2390.00	52.37	27.59	5.38	34.01	51.33	74.00	-22.67	Vertical
2400.00	65.90	27.58	5.39	34.01	64.86	74.00	-9.14	Vertical
Average va	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	37.77	27.59	5.38	34.01	36.73	54.00	-17.27	Horizontal
2400.00	50.54	27.58	5.39	34.01	49.50	54.00	-4.50	Horizontal
2390.00	39.52	27.59	5.38	34.01	38.48	54.00	-15.52	Vertical
2400.00	51.39	27.58	5.39	34.01	50.35	54.00	-3.65	Vertical
Test mode:		802.1	1n(HT20)	Tes	st channel:	H	lighest	
Peak value:								
		r		1		1	T	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
	Read Level	Factor	Loss	Factor			Limit	Polarization  Horizontal
(MHz)	Read Level (dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	(dBuV/m)	(dBuV/m)	Limit (dB)	
(MHz) 2483.50	Read Level (dBuV) 51.02	Factor (dB/m) 27.53	Loss (dB) 5.47	Factor (dB) 33.92	(dBuV/m) 50.10	(dBuV/m) 74.00	Limit (dB) -23.90	Horizontal
(MHz) 2483.50 2500.00	Read Level (dBuV) 51.02 47.13	Factor (dB/m) 27.53 27.55	Loss (dB) 5.47 5.49	Factor (dB) 33.92 29.93	(dBuV/m) 50.10 50.24	74.00 74.00	Limit (dB) -23.90 -23.76	Horizontal Horizontal
(MHz) 2483.50 2500.00 2483.50	Read Level (dBuV) 51.02 47.13 53.09 49.47	Factor (dB/m) 27.53 27.55 27.53	Loss (dB) 5.47 5.49 5.47	Factor (dB) 33.92 29.93 33.92	(dBuV/m) 50.10 50.24 52.17	74.00 74.00 74.00	Limit (dB) -23.90 -23.76 -21.83	Horizontal Horizontal Vertical
(MHz) 2483.50 2500.00 2483.50 2500.00	Read Level (dBuV) 51.02 47.13 53.09 49.47	Factor (dB/m) 27.53 27.55 27.53	Loss (dB) 5.47 5.49 5.47	Factor (dB) 33.92 29.93 33.92	(dBuV/m) 50.10 50.24 52.17	74.00 74.00 74.00	Limit (dB) -23.90 -23.76 -21.83	Horizontal Horizontal Vertical
(MHz)  2483.50  2500.00  2483.50  2500.00  Average va  Frequency	Read Level (dBuV) 51.02 47.13 53.09 49.47 Iue: Read Level	Factor (dB/m) 27.53 27.55 27.55 27.55 Antenna Factor	Loss (dB) 5.47 5.49 5.49 Cable Loss	Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor	(dBuV/m) 50.10 50.24 52.17 52.58  Level	(dBuV/m) 74.00 74.00 74.00 74.00 Limit Line	Limit (dB) -23.90 -23.76 -21.83 -21.42  Over Limit	Horizontal Horizontal Vertical Vertical
(MHz)  2483.50  2500.00  2483.50  2500.00  Average va  Frequency (MHz)	Read Level (dBuV) 51.02 47.13 53.09 49.47 Iue: Read Level (dBuV)	Factor (dB/m) 27.53 27.55 27.53 27.55 Antenna Factor (dB/m)	Loss (dB) 5.47 5.49 5.47 5.49 Cable Loss (dB)	Factor (dB) 33.92 29.93 33.92 29.93 Preamp Factor (dB)	(dBuV/m) 50.10 50.24 52.17 52.58  Level (dBuV/m)	(dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	Limit (dB) -23.90 -23.76 -21.83 -21.42  Over Limit (dB)	Horizontal Horizontal Vertical Vertical Polarization
(MHz)  2483.50  2500.00  2483.50  2500.00  Average va  Frequency (MHz)  2483.50	Read Level (dBuV) 51.02 47.13 53.09 49.47 Iue: Read Level (dBuV) 38.00	Factor (dB/m) 27.53 27.55 27.55 27.55 Antenna Factor (dB/m) 27.53	Loss (dB) 5.47 5.49 5.49 Cable Loss (dB) 5.47	Factor (dB) 33.92 29.93 33.92 29.93  Preamp Factor (dB) 33.92	(dBuV/m) 50.10 50.24 52.17 52.58  Level (dBuV/m) 37.08	(dBuV/m) 74.00 74.00 74.00 74.00  Limit Line (dBuV/m) 54.00	Limit (dB) -23.90 -23.76 -21.83 -21.42  Over Limit (dB) -16.92	Horizontal Horizontal Vertical Vertical Polarization Horizontal
(MHz)  2483.50  2500.00  2483.50  2500.00  Average va  Frequency (MHz)  2483.50  2500.00	Read Level (dBuV) 51.02 47.13 53.09 49.47 Iue: Read Level (dBuV) 38.00 34.27	Factor (dB/m) 27.53 27.55 27.55 27.55  Antenna Factor (dB/m) 27.53 27.55	Loss (dB) 5.47 5.49 5.47 5.49  Cable Loss (dB) 5.47 5.49	Factor (dB) 33.92 29.93 33.92 29.93  Preamp Factor (dB) 33.92 29.93	(dBuV/m) 50.10 50.24 52.17 52.58  Level (dBuV/m) 37.08 37.38	(dBuV/m) 74.00 74.00 74.00 74.00  Limit Line (dBuV/m) 54.00 54.00	Limit (dB) -23.90 -23.76 -21.83 -21.42  Over Limit (dB) -16.92 -16.62	Horizontal Horizontal Vertical Vertical Polarization Horizontal Horizontal

802.11n(HT20)

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



802.11n(HT40)

Test mode:

# Shenzhen EBO Technology Co., Ltd.

Test channel:

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Lowest

		111(11140)	_		_		
•							
Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
49.29	27.59	5.38	34.01	48.25	74.00	-25.75	Horizontal
62.22	27.58	5.39	34.01	61.18	74.00	-12.82	Horizontal
50.80	27.59	5.38	34.01	49.76	74.00	-24.24	Vertical
63.55	27.58	5.39	34.01	62.51	74.00	-11.49	Vertical
Average value:							
Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
36.73	27.59	5.38	34.01	35.69	54.00	-18.31	Horizontal
49.35	27.58	5.39	34.01	48.31	54.00	-5.69	Horizontal
38.36	27.59	5.38	34.01	37.32	54.00	-16.68	Vertical
50.08	27.58	5.39	34.01	49.04	54.00	-4.96	Vertical
	802.1	1n(HT40)	Tes	st channel:	H	lighest	
Peak value:							
Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
48.93	27.53	5.47	33.92	48.01	74.00	-25.99	Horizontal
45.51	27.55	5.49	29.93	48.62	74.00	-25.38	Horizontal
50.70	27.53	5.47	33.92	49.78	74.00	-24.22	Vertical
47.58	27.55	5.49	29.93	50.69	74.00	-23.31	Vertical
lue:							
Read	Antenna	Cable	Preamp	Level	Limit Line	Over	Polarization
Level (dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	(dBuV/m)	(dBuV/m)	Limit (dB)	1 Glarization
				(dBuV/m) 35.81	(dBuV/m) 54.00		Horizontal
(dBuV)	(dB/m)	(dB)	(dB)	,	, ,	(dB)	
(dBuV) 36.73	(dB/m) 27.53	(dB) 5.47	(dB) 33.92	35.81	54.00	(dB) -18.19	Horizontal
	Level (dBuV) 49.29 62.22 50.80 63.55 Iue:  Read Level (dBuV) 36.73 49.35 38.36 50.08 : Read Level (dBuV) 44.93 45.51 50.70 47.58 Iue:	Read Level (dBuV)         Antenna Factor (dB/m)           49.29         27.59           62.22         27.58           50.80         27.59           63.55         27.58           Iue:           Read Level (dBuV)         Antenna Factor (dB/m)           36.73         27.59           49.35         27.58           38.36         27.59           50.08         27.58           802.1         :           Read Level (dBwV)         Antenna Factor (dB/m)           48.93         27.53           45.51         27.55           50.70         27.53           47.58         27.55           Iue:	Read Level (dBuV)         Antenna Factor (dB/m)         Cable Loss (dB)           49.29         27.59         5.38           62.22         27.58         5.39           50.80         27.59         5.38           63.55         27.58         5.39           Iue:           Read Level (dBuV)         Antenna Cable Loss (dB/m)         Cable Loss (dB/m)           (dBuV)         27.59         5.38           49.35         27.59         5.38           50.08         27.59         5.38           50.08         27.59         5.38           50.08         27.58         5.39           802.11n(HT40)           E         Read Level (dB/m) (dB)         Cable Loss (dB)           (dBuV)         (dB/m) (dB)         48.93         27.53         5.47           45.51         27.55         5.49         50.70         27.53         5.47           47.58         27.55         5.49         10e         10e	Read Level (dBuV)         Antenna Factor (dB/m)         Cable Loss (dB)         Preamp Factor (dB)           (dBuV)         (dB/m)         (dB)         (dB)           49.29         27.59         5.38         34.01           62.22         27.58         5.39         34.01           50.80         27.59         5.38         34.01           63.55         27.58         5.39         34.01           Iue:           Read Level (dBwV)         Antenna Cable Factor (dB)         Preamp Factor (dB)           (dB/m)         (dB)         34.01           38.36         27.59         5.38         34.01           38.36         27.59         5.38         34.01           38.36         27.59         5.38         34.01           50.08         27.58         5.39         34.01           Solution (dB)         34.01           Bolution (dB)         34.01           Read Level Factor (dBwV)         Cable Preamp Factor (dB)           (dBwV)         (dB/m)         (dB)         (dB)           48.93         27.53         5.47         33.92           45.51         27.55         5.49         29.93	Read Level (dBuV)         Antenna Factor (dB/m)         Cable Loss (dB)         Preamp Factor (dBuV/m)         Level (dBuV/m)           49.29         27.59         5.38         34.01         48.25           62.22         27.58         5.39         34.01         61.18           50.80         27.59         5.38         34.01         49.76           63.55         27.58         5.39         34.01         62.51           Iue:           Read Level (dBwV)         Antenna Factor (dB/m)         Cable Loss (dB)         Preamp Factor (dBwV/m)         Level (dBwV/m)           36.73         27.59         5.38         34.01         35.69           49.35         27.58         5.39         34.01         48.31           38.36         27.59         5.38         34.01         37.32           50.08         27.58         5.39         34.01         49.04      Read Level (dBwV) (dB/m) (dB) (dB) (dB) (dB) (dB) (dB) (dB) (dB	Read Level (dBuV)         Antenna Factor (dB/m)         Cable Loss (dB)         Preamp Factor (dBuV/m)         Level (dBuV/m)         Limit Line (dBuV/m)           49.29         27.59         5.38         34.01         48.25         74.00           62.22         27.58         5.39         34.01         61.18         74.00           50.80         27.59         5.38         34.01         49.76         74.00           63.55         27.58         5.39         34.01         62.51         74.00           63.55         27.58         5.39         34.01         62.51         74.00           Iue:           Read Level (dBwV)         Antenna Factor (dB)         Cable Loss (dB)         Level (dBuV/m)         Limit Line (dBuV/m)           38.36         27.59         5.38         34.01         35.69         54.00           38.36         27.59         5.38         34.01         37.32         54.00           38.36         27.59         5.38         34.01         37.32         54.00           38.36         27.59         5.38         34.01         37.32         54.00           50.08         27.58         5.39         34.01         49.04         54.00	Read Level (dBuV)         Antenna Factor (dB/m)         Cable Loss (dB)         Preamp Factor (dB)         Level (dBuV/m)         Limit Line (dBuV/m)         Over Limit (dB)           49.29         27.59         5.38         34.01         48.25         74.00         -25.75           62.22         27.58         5.39         34.01         61.18         74.00         -12.82           50.80         27.59         5.38         34.01         49.76         74.00         -24.24           63.55         27.58         5.39         34.01         62.51         74.00         -11.49           Iue:           Read Level (dBuV)         Cable (dB)         Preamp Factor (dB)         Level (dBuV/m)         Limit Line (dBuV/m)         Over Limit (dB)           49.35         27.59         5.38         34.01         35.69         54.00         -18.31           49.35         27.58         5.39         34.01         48.31         54.00         -5.69           38.36         27.59         5.38         34.01         37.32         54.00         -16.68           50.08         27.58         5.39         34.01         49.04         54.00         -4.96           802.11n(HT40)         Test

- 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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### 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			



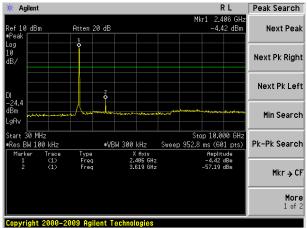
\* Agilent

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### Test plot as follows:

Test mode: 802.11b

### Lowest channel



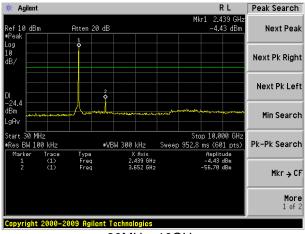
30MHz~10GHz

# Peak Search Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search Start 10.000 GHz •Res BW 100 kHz Stop 25.000 GHz Sweep 1.434 s (601 pts) Pk-Pk Search #VBW 300 kHz X Axis 24.925 GHz Mkr → CF Copyright 2000-2009 Agilent Technologies

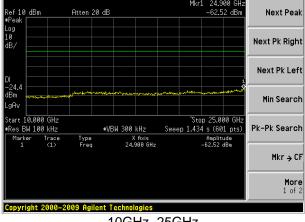
10GHz~25GHz

Peak Search

### Middle channel



30MHz~10GHz



10GHz~25GHz

Highest channel



Atten 20 dB

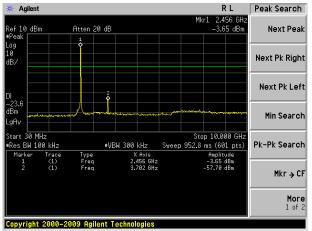
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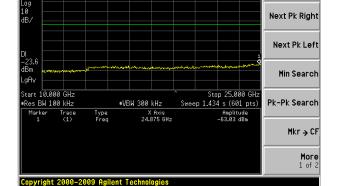
24.875 GH 63.03 dBm

Peak Search

Next Peak

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30MHz~10GHz

10GHz~25GHz

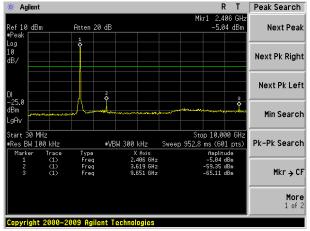


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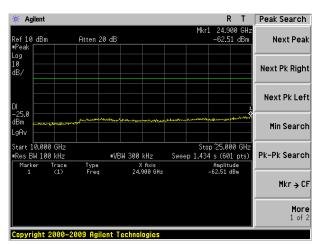
#### Test mode:

#### 802.11g

#### Lowest channel

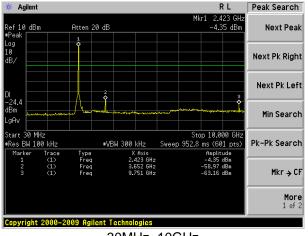


30MHz~10GHz

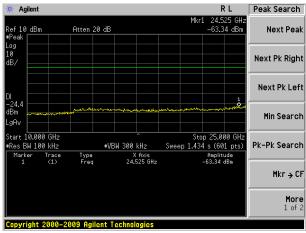


10GHz~25GHz

### Middle channel



30MHz~10GHz

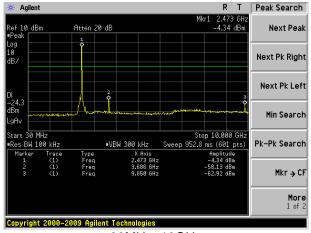


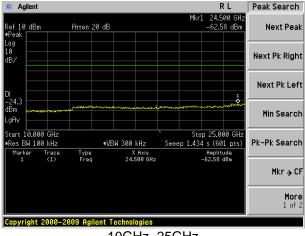
10GHz~25GHz

Highest channel



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30MHz~10GHz

10GHz~25GHz

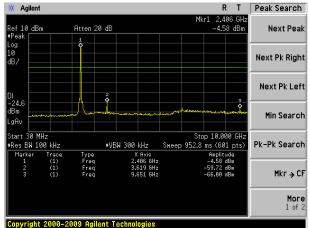


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#### Test mode:

#### 802.11n(HT20)

#### Lowest channel

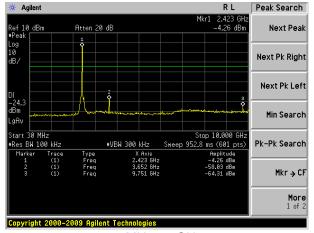


30MHz~10GHz

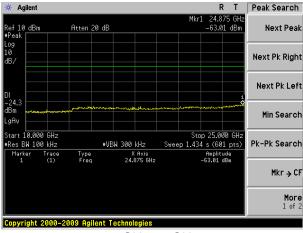
### 

10GHz~25GHz

#### Middle channel



30MHz~10GHz



10GHz~25GHz

Highest channel



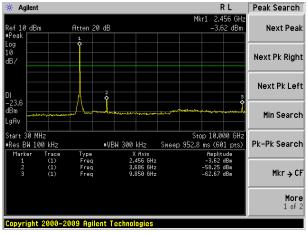
Atten 20 dB

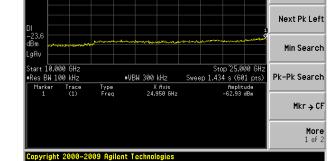
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Peak Search

Next Pk Right

Next Peak





30MHz~10GHz

10GHz~25GHz

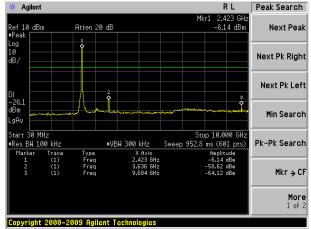


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#### Test mode:

### 802.11n(HT40)

#### Lowest channel

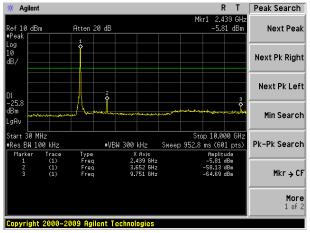


30MHz~10GHz

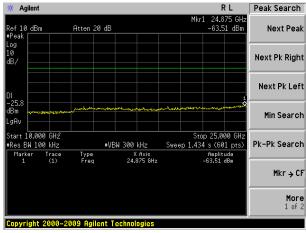
### 

10GHz~25GHz

#### Middle channel



30MHz~10GHz

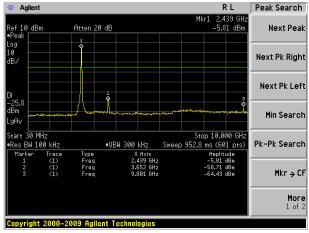


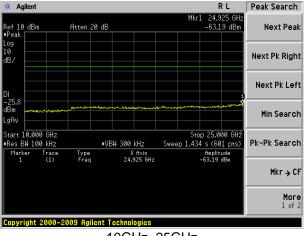
10GHz~25GHz

Highest channel



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30MHz~10GHz

10GHz~25GHz



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#### 7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209									
Test Method:	ANSI C63.4: 200	3								
Test Frequency Range:	30MHz to 25GHz	7								
Test site:	Measurement Dis	stance: 3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Value					
	30MHz-1GHz	Quasi-pea	k 120KHz	300KHz	Quasi-peak					
	Above 1GHz	Above 1GHz Peak		3MHz	Peak					
	Above 1GHz	RMS	1MHz	3MHz	Average					
Limit:	Frequency Limit (dBuV/m @3m) Value									
	30MHz-88	MHz	40.0	0	Quasi-peak					
	88MHz-216	6MHz	43.5	0	Quasi-peak					
	216MHz-96	0MHz	46.0	0	Quasi-peak					
	960MHz-1	GHz	54.0	0	Quasi-peak					
	Above 10	2H7	54.0	0	Average					
	Above 10	J1 12	74.0	0	Peak					
Test setup:	Below 1GHz  Antenna Tower  Search Antenna  RF Test Receiver  Ground Plane  Above 1GHz									



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	_
	Antenna Tower  Horn Antenna  Spectrum Analyzer  Turn Table  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.
	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.
	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.



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#### **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
40.28	51.87	15.58	0.66	32.06	36.05	40.00	-3.95	Vertical
47.33	52.55	15.41	0.74	31.98	36.72	40.00	-3.28	Vertical
120.70	53.62	12.38	1.37	31.86	35.51	43.50	-7.99	Vertical
140.84	59.64	10.20	1.51	31.95	39.40	43.50	-4.10	Vertical
178.76	57.24	11.62	1.73	32.08	38.51	43.50	-4.99	Vertical
878.32	40.44	22.87	4.77	31.21	36.87	46.00	-9.13	Vertical
45.22	43.85	15.54	0.72	32.00	28.11	40.00	-11.89	Horizontal
80.08	55.85	10.54	1.03	31.76	35.66	40.00	-4.34	Horizontal
143.83	55.63	10.22	1.53	31.96	35.42	43.50	-8.08	Horizontal
177.51	55.80	11.49	1.73	32.07	36.95	43.50	-6.55	Horizontal
297.22	49.90	15.00	2.35	32.18	35.07	46.00	-10.93	Horizontal
878.32	40.65	22.87	4.77	31.21	37.08	46.00	-8.92	Horizontal



802.11b

### Shenzhen EBO Technology Co., Ltd.

Test channel:

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Lowest

54.00

54.00

54.00

54.00

54.00

54.00

54.00

-17.40

-15.69

-11.40

Vertical

Horizontal

Horizontal

Horizontal

Horizontal

Horizontal

Horizontal

#### ■ Above 1GHz

Test mode:

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	40.03	31.79	8.62	32.10	48.34	74.00	-25.66	Vertical
7236.00	34.05	36.19	11.68	31.97	49.95	74.00	-24.05	Vertical
9648.00	32.59	38.07	14.16	31.56	53.26	74.00	-20.74	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.74	31.79	8.62	32.10	47.05	74.00	-26.95	Horizontal
7236.00	33.82	36.19	11.68	31.97	49.72	74.00	-24.28	Horizontal
9648.00	32.18	38.07	14.16	31.56	52.85	74.00	-21.15	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	29.13	31.79	8.62	32.10	37.44	54.00	-16.56	Vertical
7236.00	22.92	36.19	11.68	31.97	38.82	54.00	-15.18	Vertical
9648.00	22.95	38.07	14.16	31.56	43.62	54.00	-10.38	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical

#### Remark:

16884.00

4824.00

7236.00

9648.00

12060.00

14472.00

16884.00

28.29

22.41

21.93

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

8.62

11.68

14.16

2. "\*", means this data is the too weak instrument of signal is unable to test.

31.79

36.19

38.07

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32.10

31.97

31.56

36.60

38.31

42.60



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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	39.13	31.85	8.66	32.12	47.52	74.00	-26.48	Vertical
7311.00	34.15	36.37	11.71	31.91	50.32	74.00	-23.68	Vertical
9748.00	33.63	38.27	14.25	31.56	54.59	74.00	-19.41	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.64	31.85	8.66	32.12	48.03	74.00	-25.97	Horizontal
7311.00	32.81	36.37	11.71	31.91	48.98	74.00	-25.02	Horizontal
9748.00	33.53	38.27	14.25	31.56	54.49	74.00	-19.51	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val					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
4874.00	30.00	31.85	8.66	32.12	38.39	54.00	-15.61	Vertical
7311.00	22.47	36.37	11.71	31.91	38.64	54.00	-15.36	Vertical
9748.00	22.89	38.27	14.25	31.56	43.85	54.00	-10.15	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.77	31.85	8.66	32.12	38.16	54.00	-15.84	Horizontal
7311.00	21.90	36.37	11.71	31.91	38.07	54.00	-15.93	Horizontal
9748.00	23.25	38.27	14.25	31.56	44.21	54.00	-9.79	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)	Fa	amp ctor IB)	Level (dBuV/m)	Limit (dBu'		Over Limit (dB)	polarization
4924.00	44.50	31.90	8.70	32	.15	52.95	74.	00	-21.05	Vertical
7386.00	34.73	36.49	11.76	31	.83	51.15	74.	00	-22.85	Vertical
9848.00	36.86	38.62	14.31	31	.77	58.02	74.	00	-15.98	Vertical
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	43.87	31.90	8.70	32	.15	52.32	74.	00	-21.68	Horizontal
7386.00	33.66	36.49	11.76	31	.83	50.08	74.	00	-23.92	Horizontal
9848.00	33.04	38.62	14.31	31	.77	54.20	74.	00	-19.80	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)	Fa	amp ctor IB)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4924.00	35.45	31.90	8.70	32	.15	43.90	54.	00	-10.10	Vertical
7386.00	24.65	36.49	11.76	31	.83	41.07	54.	00	-12.93	Vertical
9848.00	25.37	38.62	14.31	31	.77	46.53	54.	00	-7.47	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4924.00	34.25	31.90	8.70	32	.15	42.70	54.	00	-11.30	Horizontal
7386.00	23.05	36.49	11.76	31	.83	39.47	54.	00	-14.53	Horizontal
9848.00	22.31	38.62	14.31	31	.77	43.47	54.	00	-10.53	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:	lowe	st	
Peak value:					_		_	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	38.07	31.79	8.62	32.10	46.38	74.00	-27.62	Vertical
7236.00	32.82	36.19	11.68	31.97	48.72	74.00	-25.28	Vertical
9648.00	31.71	38.07	14.16	31.56	52.38	74.00	-21.62	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	37.09	31.79	8.62	32.10	45.40	74.00	-28.60	Horizontal
7236.00	32.74	36.19	11.68	31.97	48.64	74.00	-25.36	Horizontal
9648.00	31.37	38.07	14.16	31.56	52.04	74.00	-21.96	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	27.33	31.79	8.62	32.10	35.64	54.00	-18.36	Vertical
7236.00	21.73	36.19	11.68	31.97	37.63	54.00	-16.37	Vertical
9648.00	22.10	38.07	14.16	31.56	42.77	54.00	-11.23	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	26.74	31.79	8.62	32.10	35.05	54.00	-18.95	Horizontal
7236.00	21.36	36.19	11.68	31.97	37.26	54.00	-16.74	Horizontal
9648.00	21.15	38.07	14.16	31.56	41.82	54.00	-12.18	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			Test	channel:		Middl	le	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor IB)	Level (dBuV/m)	Limit I (dBu\		Over Limit (dB)	polarization
4874.00	37.51	31.85	8.66	32	.12	45.90	74.0	00	-28.10	Vertical
7311.00	33.13	36.37	11.71	31	.91	49.30	74.0	00	-24.70	Vertical
9748.00	32.90	38.27	14.25	31	.56	53.86	74.0	00	-20.14	Vertical
12185.00	*						74.0	00		Vertical
14622.00	*						74.0	00		Vertical
17059.00	*						74.0	00		Vertical
4874.00	38.28	31.85	8.66	32	.12	46.67	74.0	00	-27.33	Horizontal
7311.00	31.92	36.37	11.71	31	.91	48.09	74.0	00	-25.91	Horizontal
9748.00	32.86	38.27	14.25	31	.56	53.82	74.0	00	-20.18	Horizontal
12185.00	*						74.0	00		Horizontal
14622.00	*						74.0	00		Horizontal
17059.00	*						74.0	00		Horizontal
Average val	ue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fa	amp ctor IB)	Level (dBuV/m)	Limit I (dBu\		Over Limit (dB)	polarization
4874.00	28.51	31.85	8.66	32	.12	36.90	54.0	00	-17.10	Vertical
7311.00	21.49	36.37	11.71	31	.91	37.66	54.0	00	-16.34	Vertical
9748.00	22.19	38.27	14.25	31	.56	43.15	54.0	00	-10.85	Vertical
12185.00	*						54.0	00		Vertical
14622.00	*						54.0	00		Vertical
17059.00	*						54.0	00		Vertical
4874.00	28.49	31.85	8.66	32	.12	36.88	54.0	00	-17.12	Horizontal
7311.00	21.03	36.37	11.71	31	.91	37.20	54.0	00	-16.80	Horizontal
9748.00	22.60	38.27	14.25	31	.56	43.56	54.0	00	-10.44	Horizontal
12185.00	*						54.0	00		Horizontal
14622.00	*						54.0	00		Horizontal
17059.00	*						54.0	00		Horizontal

#### Remark:

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



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Test mode:		802.11g			Test	channel:	annel: Highest			
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	41.72	31.90	8.70	32	.15	50.17	74.00		-23.83	Vertical
7386.00	32.97	36.49	11.76	31	.83	49.39	74.	00	-24.61	Vertical
9848.00	35.60	38.62	14.31	31	.77	56.76	74.	00	-17.24	Vertical
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	41.51	31.90	8.70	32	.15	49.96	74.	00	-24.04	Horizontal
7386.00	32.12	36.49	11.76	31	.83	48.54	74.	00	-25.46	Horizontal
9848.00	31.88	38.62	14.31	31	.77	53.04	74.	00	-20.96	Horizontal
12310.00	*						74.	00		Horizontal
14772.00	*						74.	00		Horizontal
17234.00	*						74.	00		Horizontal
Average val			T	ı		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	32.88	31.90	8.70	32	.15	41.33	54.	00	-12.67	Vertical
7386.00	22.95	36.49	11.76	31	.83	39.37	54.	00	-14.63	Vertical
9848.00	24.16	38.62	14.31	31	.77	45.32	54.	00	-8.68	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4924.00	32.04	31.90	8.70	32	.15	40.49	54.	00	-13.51	Horizontal
7386.00	21.56	36.49	11.76	31	.83	37.98	54.	00	-16.02	Horizontal
9848.00	21.19	38.62	14.31	31	.77	42.35	54.	00	-11.65	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:		802.11n(H	T20)	Test channel:		channel:		Lowe	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
4824.00	38.94	31.79	8.62	32	.10	47.25	74.00		-26.75	Vertical
7236.00	33.36	36.19	11.68	31	.97	49.26	74.	00	-24.74	Vertical
9648.00	32.10	38.07	14.16	31	.56	52.77	74.	00	-21.23	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4824.00	37.82	31.79	8.62	32	.10	46.13	74.	00	-27.87	Horizontal
7236.00	33.22	36.19	11.68	31	.97	49.12	74.	00	-24.88	Horizontal
9648.00	31.73	38.07	14.16	31	.56	52.40	74.	00	-21.60	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)	Fa	amp ctor IB)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4824.00	28.13	31.79	8.62	32	.10	36.44	54.	00	-17.56	Vertical
7236.00	22.26	36.19	11.68	31	.97	38.16	54.	00	-15.84	Vertical
9648.00	22.47	38.07	14.16	31	.56	43.14	54.	00	-10.86	Vertical
12060.00	*						54.	00		Vertical
14472.00	*						54.	00		Vertical
16884.00	*						54.	00		Vertical
4824.00	27.43	31.79	8.62	32	.10	35.74	54.	00	-18.26	Horizontal
7236.00	21.82	36.19	11.68	31	.97	37.72	54.	00	-16.28	Horizontal
9648.00	21.50	38.07	14.16	31	.56	42.17	54.	00	-11.83	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:		802.11n(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	38.23	31.85	8.66	32.12	46.62	74.00	-27.38	Vertical
7311.00	33.58	36.37	11.71	31.91	49.75	74.00	-24.25	Vertical
9748.00	33.23	38.27	14.25	31.56	54.19	74.00	-19.81	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	38.88	31.85	8.66	32.12	47.27	74.00	-26.73	Horizontal
7311.00	32.31	36.37	11.71	31.91	48.48	74.00	-25.52	Horizontal
9748.00	33.15	38.27	14.25	31.56	54.11	74.00	-19.89	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	29.17	31.85	8.66	32.12	37.56	54.00	-16.44	Vertical
7311.00	21.92	36.37	11.71	31.91	38.09	54.00	-15.91	Vertical
9748.00	22.50	38.27	14.25	31.56	43.46	54.00	-10.54	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.05	31.85	8.66	32.12	37.44	54.00	-16.56	Horizontal
7311.00	21.42	36.37	11.71	31.91	37.59	54.00	-16.41	Horizontal
9748.00	22.89	38.27	14.25	31.56	43.85	54.00	-10.15	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

#### Remark:

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



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Test mode:		802.11n(H	IT20)	Test	channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	42.95	31.90	8.70	32.15	51.40	74.00	-22.60	Vertical
7386.00	33.74	36.49	11.76	31.83	50.16	74.00	-23.84	Vertical
9848.00	36.15	38.62	14.31	31.77	57.31	74.00	-16.69	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	42.55	31.90	8.70	32.15	51.00	74.00	-23.00	Horizontal
7386.00	32.80	36.49	11.76	31.83	49.22	74.00	-24.78	Horizontal
9848.00	32.39	38.62	14.31	31.77	53.55	74.00	-20.45	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val			1	1				T1
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	34.01	31.90	8.70	32.15	42.46	54.00	-11.54	Vertical
7386.00	23.70	36.49	11.76	31.83	40.12	54.00	-13.88	Vertical
9848.00	24.69	38.62	14.31	31.77	45.85	54.00	-8.15	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.02	31.90	8.70	32.15	41.47	54.00	-12.53	Horizontal
7386.00	22.22	36.49	11.76	31.83	38.64	54.00	-15.36	Horizontal
9848.00	21.68	38.62	14.31	31.77	42.84	54.00	-11.16	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:		802.11n(HT40)			Test channel:			Lowe	st	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4844.00	37.31	31.81	8.63	32.11		45.64	74.	00	-28.36	Vertical
7266.00	32.33	36.28	11.69	31.	94	48.36	74.	00	-25.64	Vertical
9688.00	31.37	38.13	14.21	31.	52	52.19	74.	00	-21.81	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	36.45	31.81	8.63	32.	.11	44.78	74.	00	-29.22	Horizontal
7266.00	32.32	36.28	11.69	31.	94	48.35	74.	00	-25.65	Horizontal
9688.00	31.05	38.13	14.21	31.	52	51.87	74.	00	-22.13	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal

### Average value:

Average var								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	26.63	31.81	8.63	32.11	34.96	54.00	-19.04	Vertical
7266.00	21.27	36.28	11.69	31.94	37.30	54.00	-16.70	Vertical
9688.00	21.77	38.13	14.21	31.52	42.59	54.00	-11.41	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	26.14	31.81	8.63	32.11	34.47	54.00	-19.53	Horizontal
7266.00	20.95	36.28	11.69	31.94	36.98	54.00	-17.02	Horizontal
9688.00	20.84	38.13	14.21	31.52	41.66	54.00	-12.34	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:		802.11n(HT40)		Test channel:		Middle		
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
4874.00	36.88	31.85	8.66	32.12	45.27	74.00	-28.73	Vertical
7311.00	32.73	36.37	11.71	31.91	48.90	74.00	-25.10	Vertical
9748.00	32.62	38.27	14.25	31.56	53.58	74.00	-20.42	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	37.75	31.85	8.66	32.12	46.14	74.00	-27.86	Horizontal
7311.00	31.57	36.37	11.71	31.91	47.74	74.00	-26.26	Horizontal
9748.00	32.59	38.27	14.25	31.56	53.55	74.00	-20.45	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	27.93	31.85	8.66	32.12	36.32	54.00	-17.68	Vertical
7311.00	21.10	36.37	11.71	31.91	37.27	54.00	-16.73	Vertical
9748.00	21.92	38.27	14.25	31.56	42.88	54.00	-11.12	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	27.99	31.85	8.66	32.12	36.38	54.00	-17.62	Horizontal
7311.00	20.70	36.37	11.71	31.91	36.87	54.00	-17.13	Horizontal
9748.00	22.35	38.27	14.25	31.56	43.31	54.00	-10.69	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

### Remark:

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



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Test mode:		802.11n(H	802.11n(HT40)		Test channel:		Highest	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	40.63	31.88	8.68	32.13	49.06	74.00	-24.94	Vertical
7356.00	32.28	36.45	11.75	31.86	48.62	74.00	-25.38	Vertical
9808.00	35.11	38.43	14.29	31.68	56.15	74.00	-17.85	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	40.60	31.88	8.68	32.13	49.03	74.00	-24.97	Horizontal
7356.00	31.52	36.45	11.75	31.86	47.86	74.00	-26.14	Horizontal
9808.00	31.43	38.43	14.29	31.68	52.47	74.00	-21.53	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val			T	ı			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
4904.00	31.88	31.88	8.68	32.13	40.31	54.00	-13.69	Vertical
7356.00	22.29	36.45	11.75	31.86	38.63	54.00	-15.37	Vertical
9808.00	23.69	38.43	14.29	31.68	44.73	54.00	-9.27	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	31.18	31.88	8.68	32.13	39.61	54.00	-14.39	Horizontal
7356.00	20.98	36.45	11.75	31.86	37.32	54.00	-16.68	Horizontal
9808.00	20.75	38.43	14.29	31.68	41.79	54.00	-12.21	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.

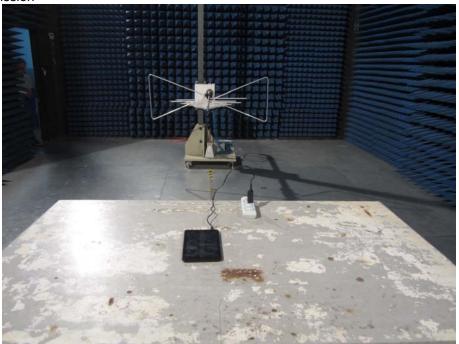


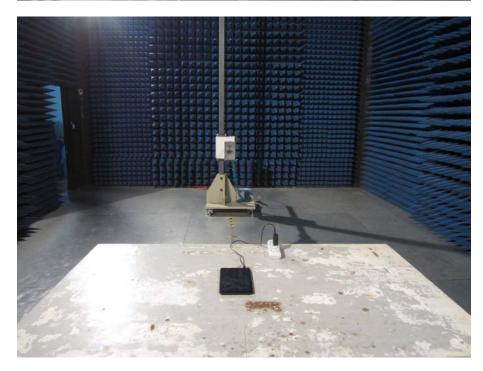
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# 8 Test Setup Photo

Radiated Emission







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#### Conducted Emission





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### 9 EUT Constructional Details

Reference to the test report No. EBO1411112-E291
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