

# Global United Technology Services Co., Ltd.

Report No.: GTSE12120154301

# **FCC REPORT**

Applicant: ShenZhen Mele Digital Technology Ltd

Address of Applicant: 6/F, Union Friend Industrial Center, Langshan Road Industry

Park, Shenzhen, (518051) China

**Equipment Under Test (EUT)** 

Product Name: Smart TV Box

Model No.: MC100

FCC ID: WF7-MG03A

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2011

Date of sample receipt: December 25, 2012

Date of Test: December 25-31, 2012

Date of report issued: January 04, 2013

Test Result: PASS \*

Authorized Signature:

### Robinson Lo Laboratory Manager

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

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



### 2 Version

Version No.	Date	Description
00	January 04, 2013	Original

Prepared By:	hank. yan.	Date:	January 04, 2013	
	Project Engineer	<del></del>		
Check By:	Homs. Hu	Date:	January 04, 2013	
	Reviewer			



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# 4 Test Summary

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

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

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#### **General Information** 5

### 5.1 Client Information

Applicant:	ShenZhen Mele Digital Technology Ltd	
Address of Applicant:	6/F, Union Friend Industrial Center, Langshan Road Industry Park, Shenzhen, (518051) China	
Manufacturer:	ShenZhen Mele Digital Technology Ltd	
Address of Manufacturer:	6/F, Union Friend Industrial Center, Langshan Road Industry Park, Shenzhen, (518051) China	

### 5.2 General Description of EUT

Product Name:	Smart TV Box	
Model No.:	MC100	
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:	Dedicated Antenna	
Antenna gain:	2.0dBi(declare by Applicant)	
Power supply:	Model No.: NSA15EU-050200	
	Input: AC 100-240V 50/60Hz 0.5A	
	Output: DC 5.0V 2.0A	

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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:

Toot obonnol	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
-------------------	--

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

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

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

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

### 5.4 Description of Support Units

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

Shenzhen, China 518102



### 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, July 20, 2010.

### • Industry Canada (IC)

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.

### 5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

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

Tel: 0755-27798480 Fax: 0755-27798960

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

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### 6 Test Instruments list

Radi	Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 30 2011	Mar. 29 2013	
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. 6, 2012	Dec. 5, 2013	
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 03 2012	Jul. 02 2013	
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 25 2012	Feb. 24 2013	
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 29 2012	June 28 2013	
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2011	Mar. 29 2013	
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 31 2012	Mar. 30 2013	
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 31 2012	Mar. 30 2013	
11	Coaxial cable	GTS	N/A	GTS210	Mar. 31 2012	Mar. 30 2013	
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 31 2012	Mar. 30 2013	
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 03 2012	Jul. 02 2013	
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 03 2012	Jul. 02 2013	
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 29 2012	June 28 2013	
16	Band filter	Amindeon	82346	GTS219	Mar. 31 2012	Mar. 30 2013	

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. 08 2011	Sep. 07 2013	
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 03 2012	Jul. 02 2013	
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 03 2012	Jul. 02 2013	
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jul. 03 2012	Jul. 02 2013	
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 03 2012	Jul. 02 2013	
6	Coaxial Cable	GTS	N/A	GTS227	Jul. 03 2012	Jul. 02 2013	
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 10 2012	July 09 2013	



### 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 Dedicated Antenna, the best case gain of the antenna is 2.0dBi





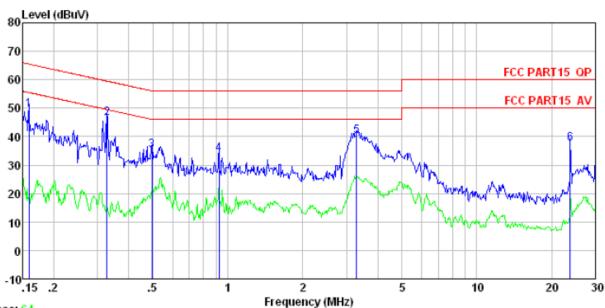
### 7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.4:2003				
Test Frequency Range:	150KHz to 30MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto			
Limit:	Frequency range (MHz)	Limit (c	lBuV)		
	, , ,	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithn	n of the frequency.			
Test setup:	Reference Plane				
	ver				
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> <li>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</li> </ol>				
	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				
Test results:	Pass				



### Measurement data

Line:



Trace: 64

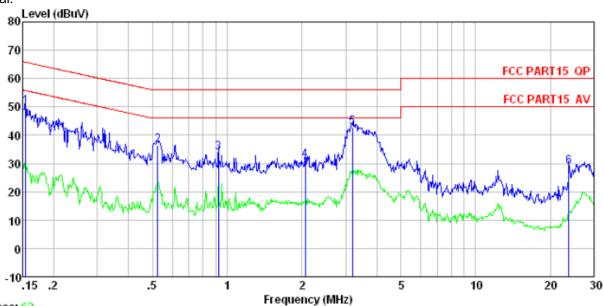
: FCC PART15 QP LISN-2012 LINE

Condition Job No. : 1543RF Test Mode : WiFi mode Test Engineer: Jim

CSI	Digineer.							
		Read	LISN	Cable		Limit	Over	
	F							Pamanla
	rreq	rever	Factor	LUSS	rever	Line	Limit	Kemark
	MHz	dBuV	−dB	d₿	dBuV	-dBuV	dB	
	311122	abar	· ·	· ·	abar	abar	· ·	
1	0.159	49.63	-0.26	0.10	49.47	65.52	-16.05	QP
2 3	0.327	46 61	-0.22	0.10	46 49	59 53	-13.04	ΩP
õ								•
3	0.497	35. 32	-0.21	0.10	35.21	56.05	-20.84	QP
4	0.923	33.78	-0.21	0.10	33.67	56.00	-22.33	QP
5			-0.26					
6	23.762	38. 20	-0.80	0.21	37.61	60.00	-22.39	QP



### Neutral:



Trace: 62

Condition : FCC PART15 QP LISN-2012 NEUTRAL

Job No. : 1543RF Test Mode : WiFi mode Test Engineer: Jim

	Freq		LISN Factor					Remark
	MHz	dBuV	dB	d₿	dBuV	dBuV	dB	
1 2 3 4 5	0.524 0.923	36.52 33.76 31.30 42.71		0.10 0.10 0.10 0.10	36.54 33.77 31.29 42.68	56.00 56.00 56.00 56.00	-19.46 -22.23 -24.71 -13.32	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



### 7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)	
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V02	
Limit:	30dBm	
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane	
Test Instruments:	Refer to section 6.0 for details	
Test mode:	Refer to section 5.3 for details	
Test results:	Pass	

### **Measurement Data**

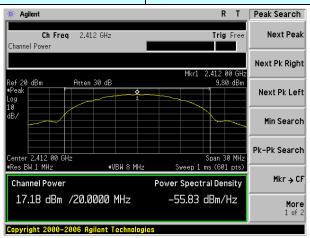
Test CH		Peak Outp	Limit(dBm)	Result		
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Lillin(abili)	resuit
Lowest	17.18	13.20	12.47	12.31		
Middle	17.45	13.87	13.02	12.70	30.00	Pass
Highest	17.40	13.50	13.06	12.49		

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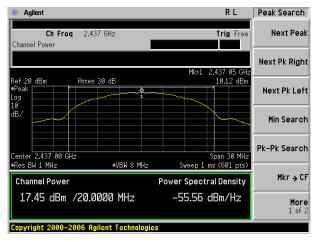


### Test plot as follows:

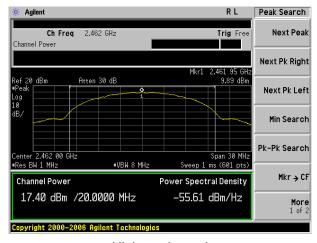
Test mode: 802.11b



### Lowest channel



### Middle channel



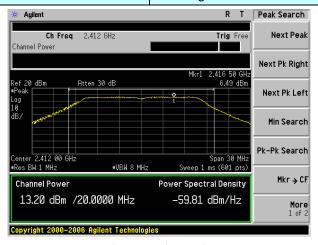
Highest channel

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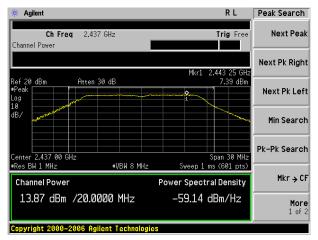
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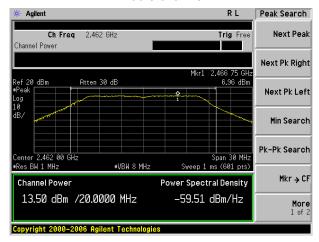
Test mode: 802.11g



#### Lowest channel



### Middle channel

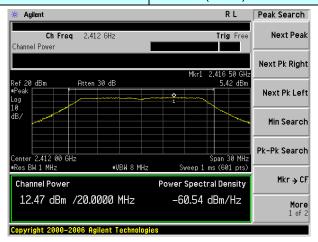


Highest channel

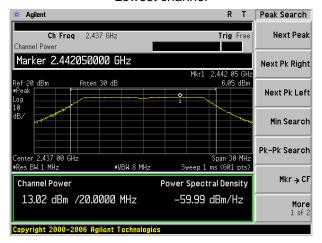
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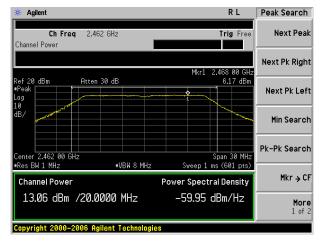
Test mode: 802.11n(HT20)



#### Lowest channel



### Middle channel

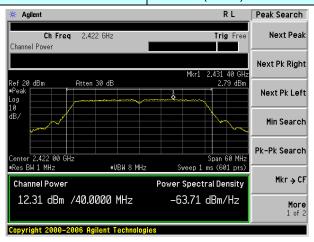


Highest channel

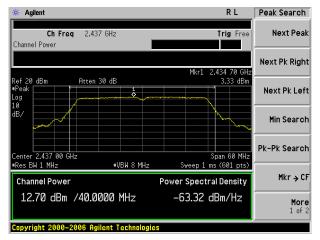
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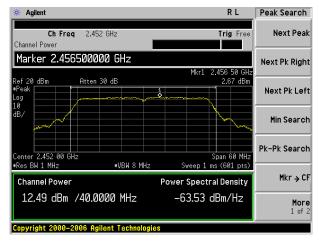
Test mode: 802.11n(HT40)



#### Lowest channel



### Middle channel



Highest channel

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### 7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)	
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V02	
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		
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Lillit(Ki iz)	Nesuit
Lowest	10.081	16.601	17.798	36.475		
Middle	10.106	16.606	17.843	36.479	>500	Pass
Highest	10.102	16.615	17.840	36.472		

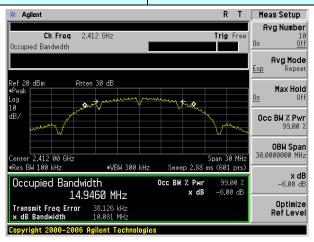
### Test plot as follows:

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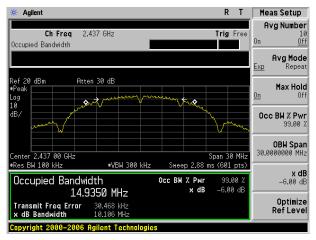


Project No.: GTSE121201543RF

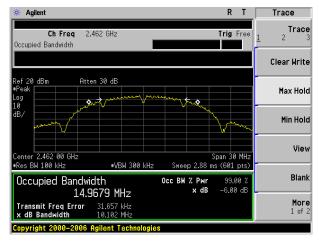
Test mode: 802.11b



#### Lowest channel



### Middle channel

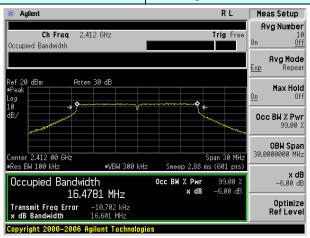


Highest channel

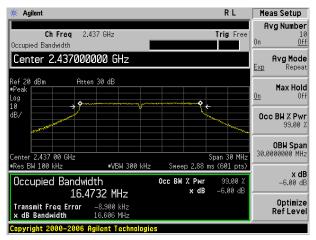


Project No.: GTSE121201543RF

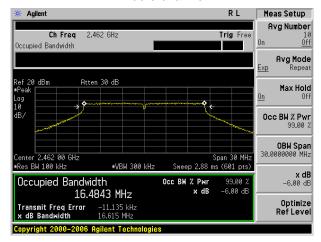
Test mode: 802.11g



#### Lowest channel



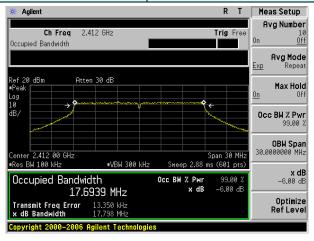
### Middle channel



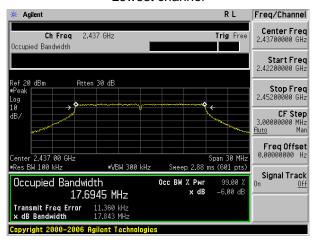
Highest channel



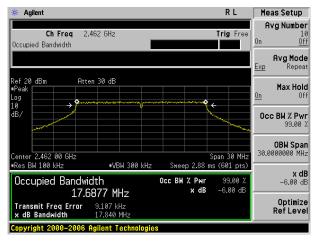
Test mode: 802.11n(HT20)



#### Lowest channel



### Middle channel

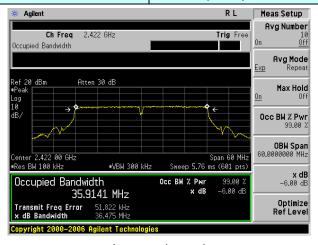


Highest channel

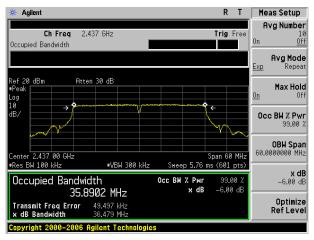
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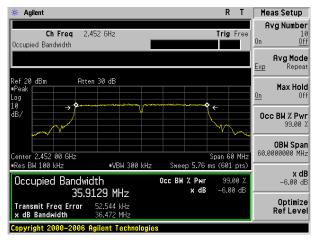
Test mode: 802.11n(HT40)



#### Lowest channel



### Middle channel



Highest channel

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Project No.: GTSE121201543RF

### 7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)		
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V02		
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		

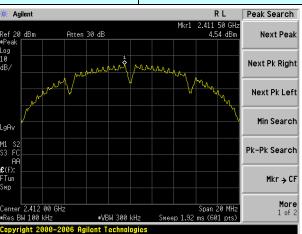
### **Measurement Data**

Test CH		Power Sp	Limit(dBm/3kHz)	Result		
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(dbin/3ki iz)	Result
Lowest	4.54	-5.15	-6.10	-9.00		
Middle	5.04	-4.47	-4.82	-7.59	8.00	Pass
Highest	6.43	-4.29	-5.15	-7.70		

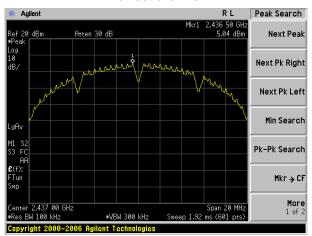


### Test plot as follows:

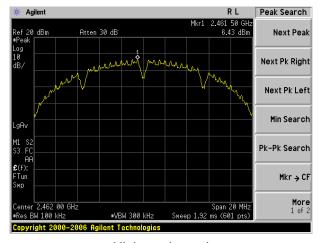
Test mode: 802.11b



### Lowest channel



### Middle channel

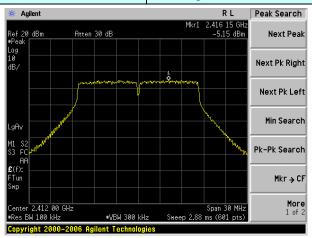


Highest channel

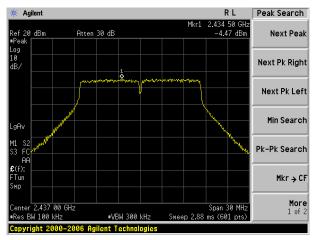
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



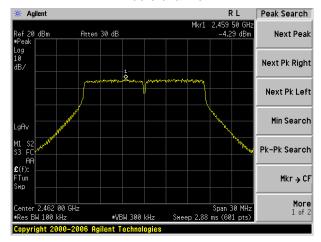
Test mode: 802.11g



### Lowest channel



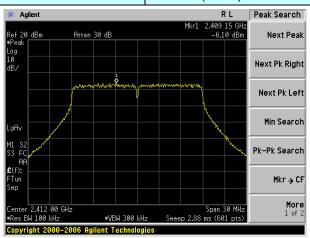
### Middle channel



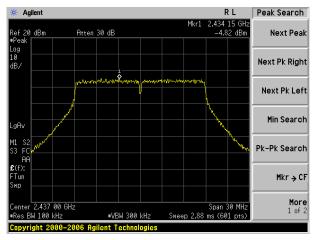
Highest channel



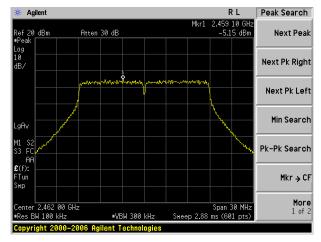
Test mode: 802.11n(HT20)



#### Lowest channel



### Middle channel

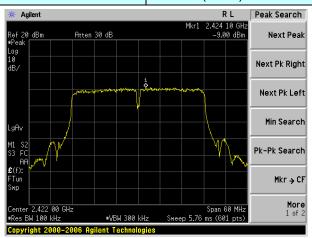


Highest channel

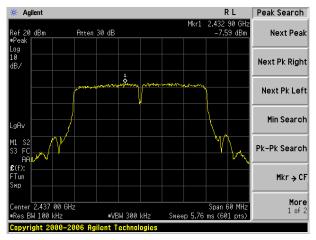
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



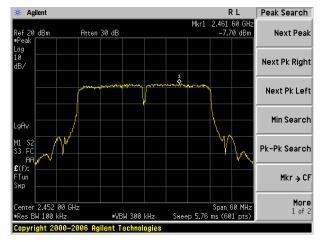
Test mode: 802.11n(HT40)



#### Lowest channel



### Middle channel



Highest channel

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



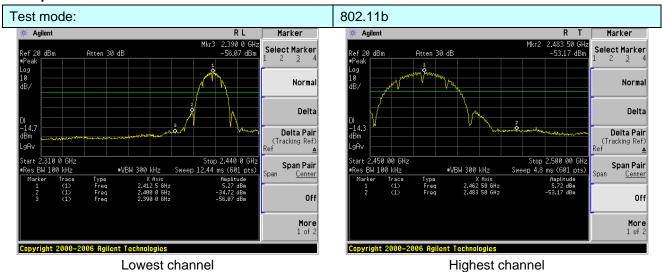
# 7.6 Band edges

### 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 V02		
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		



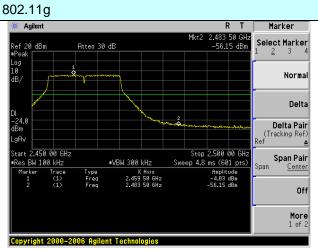
### Test plot as follows:



Lowest channel

## Test mode: RL Agilent Normal Delta **Delta Pair** (Tracking Ref) Ref Stop 2.440 0 GHz Sweep 12.44 ms (601 pts) 2.310 0 GHz BW 100 kHz Off More 1 of 2 Copyright 2000-2006 Agilent Technologies

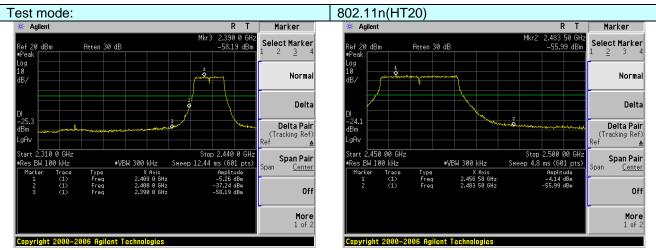
Lowest channel

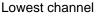


Highest channel

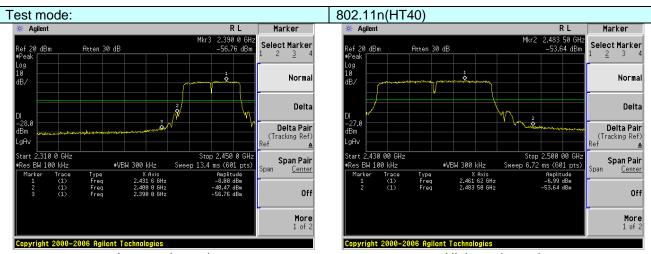
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960







Highest channel



Lowest channel

Highest channel



### 7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205					
Test Method:	ANSI C63.4: 20	03				
Test Frequency Range:	All of the restrict 2500MHz) data		tested, only	the worst b	pand's (2310MHz to	
Test site:	Measurement D					
Receiver setup:	Frequency	Detector	RBW	VBW	Value	
•		Peak	1MHz	3MHz	Peak	
	Above 1GHz	AV	1MHz	10Hz	Average	
Limit:	Freque	ency	Limit (dBuV	/m @3m)	Value	
	Above 1		54.0	00	Average	
	Above	GHZ	74.0	00	Peak	
Test setup:	Antenna Tower  Horn Antenna  Spectrum Analyzer  Turn Table  Amplifier					
Test Procedure:	Turn 0.8m 1m					
Test Instruments:	Refer to section					
Test mode:	Refer to section	5.3 for details				
Test results:	Pass					



### Measurement data:

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

Test mode:	802.11b	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
2390.00	49.74	27.38	3.91	34.83	46.20	74.00	-27.80	Horizontal
2400.00	52.89	27.38	3.93	34.83	49.37	74.00	-24.63	Horizontal
2390.00	51.61	27.38	3.91	34.83	48.07	74.00	-25.93	Vertical
2400.00	53.66	27.38	3.93	34.83	50.14	74.00	-23.86	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	38.46	27.38	3.91	34.83	34.92	54.00	-19.08	Horizontal
2400.00	41.02	27.38	3.93	34.83	37.50	54.00	-16.50	Horizontal
2390.00	39.06	27.38	3.91	34.83	35.52	54.00	-18.48	Vertical
2400.00	42.48	27.38	3.93	34.83	38.96	54.00	-15.04	Vertical

Test mode: 802.11b	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
2483.50	51.07	27.32	3.99	34.86	47.52	74.00	-26.48	Horizontal
2500.00	48.70	27.35	4.00	34.87	45.18	74.00	-28.82	Horizontal
2483.50	51.84	27.32	3.99	34.86	48.29	74.00	-25.71	Vertical
2500.00	50.42	27.35	4.00	34.87	46.90	74.00	-27.10	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	36.69	27.32	3.99	34.86	33.14	54.00	-20.86	Horizontal
2500.00	33.35	27.35	4.00	34.87	29.83	54.00	-24.17	Horizontal
2483.50	38.04	27.32	3.99	34.86	34.49	54.00	-19.51	Vertical
2500.00	34.25	27.35	4.00	34.87	30.73	54.00	-23.27	Vertical

### Remark:

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

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Project No.: GTSE121201543RF

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Test mode:		802.1	1g	Tes	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
2390.00	48.52	27.38	3.91	34.83	44.98	74.00	-29.02	Horizontal
2400.00	50.67	27.38	3.93	34.83	47.15	74.00	-26.85	Horizontal
2390.00	50.51	27.38	3.91	34.83	46.97	74.00	-27.03	Vertical
2400.00	52.19	27.38	3.93	34.83	48.67	74.00	-25.33	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	33.99	27.38	3.91	34.83	30.45	54.00	-23.55	Horizontal
2400.00	36.07	27.38	3.93	34.83	32.55	54.00	-21.45	Horizontal
2390.00	34.26	27.38	3.91	34.83	30.72	54.00	-23.28	Vertical
2400.00	36.22	27.38	3.93	34.83	32.70	54.00	-21.30	Vertical
Test mode:		802.1	1g	Tes	st channel:	ŀ	Highest	
Peak value		1			7	Ī	1	,
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.37	27.32	3.99	34.86	44.82	74.00	-29.18	Horizontal
2500.00	45.10	27.35	4.00	34.87	41.58	74.00	-32.42	Horizontal
2483.50	50.15	27.32	3.99	34.86	46.60	74.00	-27.40	Vertical
2500.00	47.99	27.35	4.00	34.87	44.47	74.00	-29.53	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	34.66	27.32	3.99	34.86	31.11	54.00	-22.89	Horizontal
2500.00	33.02	27.35	4.00	34.87	29.50	54.00	-24.50	Horizontal
2483.50	35.93	27.32	3.99	34.86	32.38	54.00	-21.62	Vertical
2500.00	34.25	27.35	4.00	34.87	30.73	54.00	-23.27	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.

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102



Test mode:

Report No.: GTSE12120154301

Lowest

	:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	48.47	27.38	3.91	34.83	44.93	74.00	-29.07	Horizontal
2400.00	50.20	27.38	3.93	34.83	46.68	74.00	-27.32	Horizontal
2390.00	44.64	27.38	3.91	34.83	41.10	74.00	-32.90	Vertical
2400.00	46.53	27.38	3.93	34.83	43.01	74.00	-30.99	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	35.29	27.38	3.91	34.83	31.75	54.00	-22.25	Horizontal
2400.00	37.55	27.38	3.93	34.83	34.03	54.00	-19.97	Horizontal
2390.00	29.83	27.38	3.91	34.83	26.29	54.00	-27.71	Vertical
2400.00	32.65	27.38	3.93	34.83	29.13	54.00	-24.87	Vertical
				•	•			
Test mode:		802.1	1n(HT20)	Tes	st channel:	F	lighest	
Peak value								
reak 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
Frequency	Read Level	Factor	Loss	Factor			Limit	Polarization Horizontal
Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	(dBuV/m)	(dBuV/m)	Limit (dB)	
Frequency (MHz) 2483.50	Read Level (dBuV) 46.87	Factor (dB/m) 27.32	Loss (dB) 3.99	Factor (dB) 34.86	(dBuV/m) 43.32	(dBuV/m) 74.00	Limit (dB) -30.68	Horizontal
Frequency (MHz) 2483.50 2500.00	Read Level (dBuV) 46.87 45.17	Factor (dB/m) 27.32 27.35	Loss (dB) 3.99 4.00	Factor (dB) 34.86 34.87	(dBuV/m) 43.32 41.65	74.00 74.00	Limit (dB) -30.68 -32.35	Horizontal Horizontal
Frequency (MHz) 2483.50 2500.00 2483.50	Read Level (dBuV) 46.87 45.17 49.04 46.15	Factor (dB/m) 27.32 27.35 27.32	Loss (dB) 3.99 4.00 3.99 4.00	Factor (dB)  34.86  34.87  34.86  34.87	(dBuV/m) 43.32 41.65 45.49	74.00 74.00 74.00	Limit (dB) -30.68 -32.35 -28.51	Horizontal Horizontal Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00	Read Level (dBuV) 46.87 45.17 49.04 46.15	Factor (dB/m) 27.32 27.35 27.32	Loss (dB) 3.99 4.00 3.99	Factor (dB)  34.86  34.87  34.86	(dBuV/m) 43.32 41.65 45.49	74.00 74.00 74.00	Limit (dB) -30.68 -32.35 -28.51	Horizontal Horizontal Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 <b>Average va</b> Frequency	Read Level (dBuV) 46.87 45.17 49.04 46.15 Iue:	Factor (dB/m) 27.32 27.35 27.32 27.35 Antenna Factor	Loss (dB) 3.99 4.00 3.99 4.00 Cable Loss	Factor (dB) 34.86 34.87 34.86 34.87 Preamp Factor	(dBuV/m) 43.32 41.65 45.49 42.63  Level	74.00 74.00 74.00 74.00 74.00	Limit (dB) -30.68 -32.35 -28.51 -31.37  Over Limit	Horizontal Horizontal Vertical Vertical
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 <b>Average va</b> Frequency (MHz)	Read Level (dBuV) 46.87 45.17 49.04 46.15 Iue: Read Level (dBuV)	Factor (dB/m) 27.32 27.35 27.32 27.35 Antenna Factor (dB/m)	Loss (dB) 3.99 4.00 3.99 4.00 Cable Loss (dB)	Factor (dB) 34.86 34.87 34.86 34.87 Preamp Factor (dB)	(dBuV/m) 43.32 41.65 45.49 42.63  Level (dBuV/m)	74.00 74.00 74.00 74.00 Limit Line (dBuV/m)	Limit (dB) -30.68 -32.35 -28.51 -31.37  Over Limit (dB)	Horizontal Horizontal Vertical Vertical Polarization
Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 <b>Average va</b> Frequency (MHz) 2483.50	Read Level (dBuV) 46.87 45.17 49.04 46.15 Ilue: Read Level (dBuV) 34.19	Factor (dB/m) 27.32 27.35 27.32 27.35  Antenna Factor (dB/m) 27.32	Loss (dB) 3.99 4.00 3.99 4.00 Cable Loss (dB) 3.99	Factor (dB)  34.86  34.87  34.86  34.87  Preamp Factor (dB)  34.86	(dBuV/m) 43.32 41.65 45.49 42.63  Level (dBuV/m) 30.64	74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	Limit (dB) -30.68 -32.35 -28.51 -31.37  Over Limit (dB) -23.36	Horizontal Horizontal Vertical Vertical Polarization Horizontal

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

Test channel:

802.11n(HT20)

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102



Test mode:

Report No.: GTSE12120154301

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	49.66	27.38	3.91	34.83	46.12	74.00	-27.88	Horizontal
2400.00	50.50	27.38	3.93	34.83	46.98	74.00	-27.02	Horizontal
2390.00	50.84	27.38	3.91	34.83	47.30	74.00	-26.70	Vertical
2400.00	54.29	27.38	3.93	34.83	50.77	74.00	-23.23	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	36.39	27.38	3.91	34.83	32.85	54.00	-21.15	Horizontal
2400.00	39.55	27.38	3.93	34.83	36.03	54.00	-17.97	Horizontal
2390.00	36.26	27.38	3.91	34.83	32.72	54.00	-21.28	Vertical
2400.00	39.08	27.38	3.93	34.83	35.56	54.00	-18.44	Vertical
				•	•			
Test mode:		802.1	1n(HT40)	Tes	st channel:	F	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	51.45	27.32	3.99	34.86	47.90	74.00	-26.10	Horizontal
2500.00	47.87	27.35	4.00	34.87	44.35	74.00	-29.65	Horizontal
2483.50	51.24	27.32	3.99	34.86	47.69	74.00	-26.31	Vertical
2500.00	48.19	27.35	4.00	34.87	44.67	74.00	-29.33	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.39	27.32	3.99	34.86	32.84	54.00	-21.16	Horizontal
2403.30					1			
2500.00	35.43	27.35	4.00	34.87	31.91	54.00	-22.09	Horizontal
		27.35 27.32	4.00 3.99	34.87 34.86	31.91 32.43	54.00 54.00	-22.09 -21.57	Vertical

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

Test channel:

802.11n(HT40)

Global United Technology Services Co., Ltd.

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Shenzhen, China 518102



# 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 V02					
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					

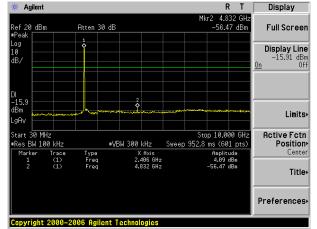


## Test plot as follows:

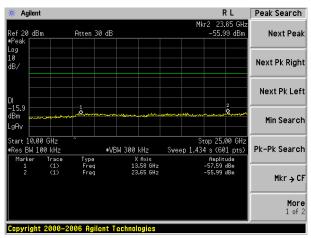
## Test mode:

## 802.11b

## Lowest channel

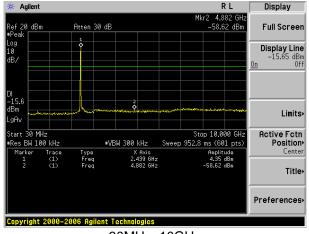


30MHz~10GHz

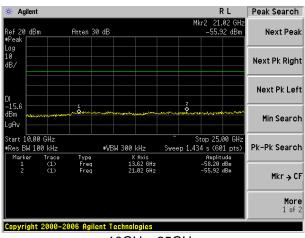


10GHz~25GHz

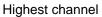
#### Middle channel

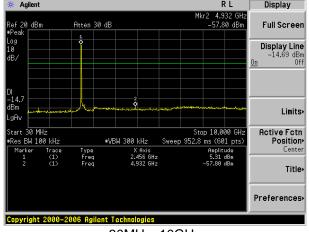


30MHz~10GHz

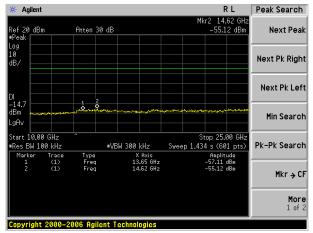


10GHz~25GHz





30MHz~10GHz



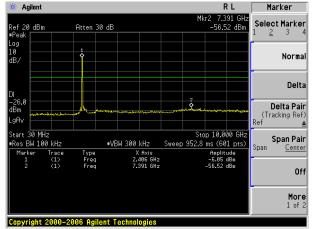
10GHz~25GHz



#### Test mode:

## 802.11g

## Lowest channel

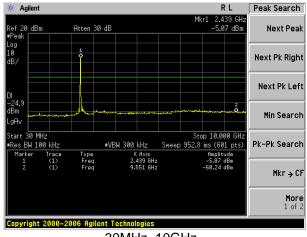


30MHz~10GHz

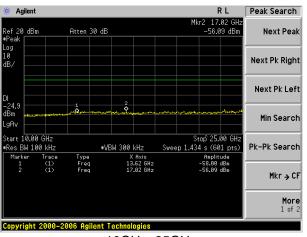
# 

10GHz~25GHz

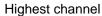
#### Middle channel

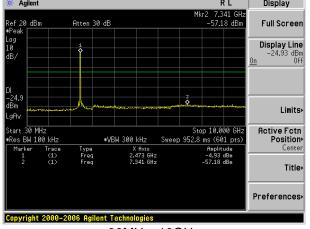


30MHz~10GHz

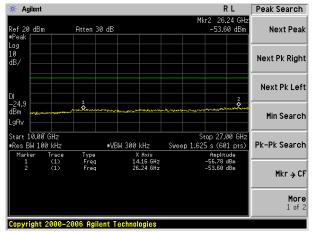


10GHz~25GHz





30MHz~10GHz



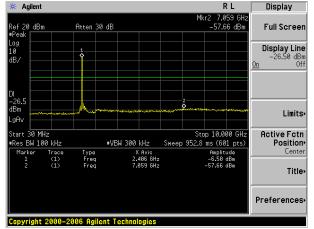
10GHz~25GHz



#### Test mode:

## 802.11n(HT20)

#### Lowest channel

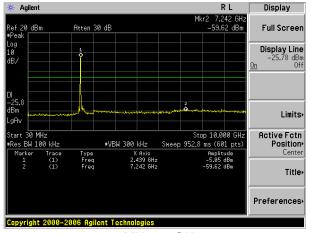


30MHz~10GHz

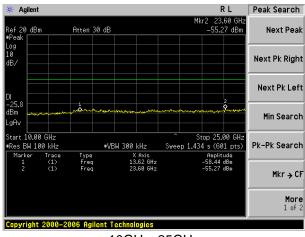
# 

10GHz~25GHz

## Middle channel

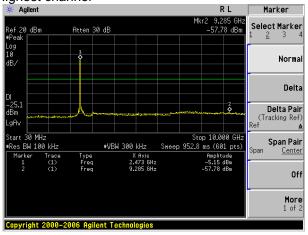


30MHz~10GHz

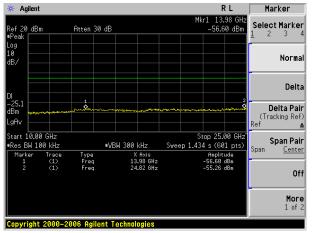


10GHz~25GHz





30MHz~10GHz



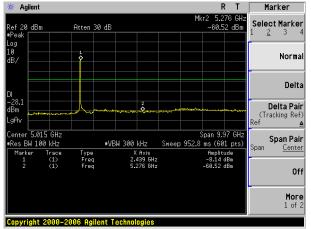
10GHz~25GHz



#### Test mode:

## 802.11n(HT40)

#### Lowest channel

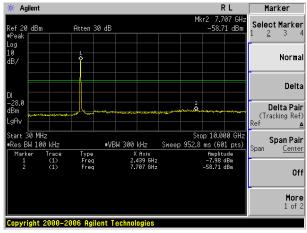


30MHz~10GHz

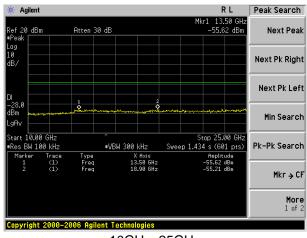
# 

10GHz~25GHz

## Middle channel

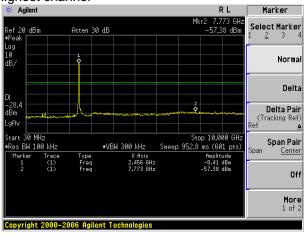


30MHz~10GHz

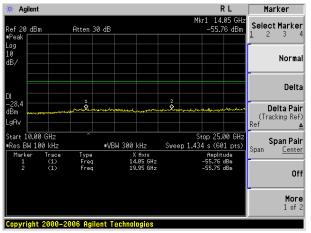


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



## 7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209									
Test Method:	ANSI C63.4: 200	3									
Test Frequency Range:	30MHz to 25GHz	30MHz to 25GHz									
Test site:	Measurement Dis	Measurement Distance: 3m									
Receiver setup:	Frequency										
	30MHz-1GHz	Peak 1MHz 3MHz Peak									
	Aboyo 1€ U-7	·									
	Above IGHZ	Above 1GHz AV 1MHz 10Hz Average									
Limit:	Frequen	icy l	_imit (dBuV	/m @3m)	Value						
	30MHz-88	30MHz-88MHz 40.00 Quasi-peak									
	88MHz-216	88MHz-216MHz 43.50 Quasi-peak									
	216MHz-96	216MHz-960MHz 46.00 Quasi-peak									
	960MHz-1	960MHz-1GHz 54.00 Quasi-peak									
	A1 46	54 00 Average									
	Above 10	Above 1GHz 74.00 Peak									
	Tum Table 0.8m Above 1GHz	4m		Antenna  RF Test Receiver							
	Antenna Tower  Horn Antenna  Spectrum Analyzer  Turn Table A A A A A Amplifier										

Global United Technology Services Co., Ltd.

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

Shenzhen, China 518102



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

## Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the 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
33.56	50.49	15.78	0.59	32.06	34.80	40.00	-5.20	Vertical
54.07	49.68	16.15	0.81	31.95	34.69	40.00	-5.31	Vertical
64.66	52.18	14.60	0.90	31.91	35.77	40.00	-4.23	Vertical
250.30	57.51	15.07	2.12	32.16	42.54	46.00	-3.46	Vertical
790.62	44.20	22.96	4.42	31.31	40.27	46.00	-5.73	Vertical
972.34	48.90	23.84	5.12	31.22	46.64	54.00	-7.36	Vertical
250.30	56.65	15.07	2.12	32.16	41.68	46.00	-4.32	Horizontal
315.48	48.86	16.30	2.44	32.13	35.47	46.00	-10.53	Horizontal
552.88	46.57	19.62	3.53	31.28	38.44	46.00	-7.56	Horizontal
631.69	46.20	20.91	3.84	31.09	39.86	46.00	-6.14	Horizontal
869.13	44.44	23.78	4.74	31.22	41.74	46.00	-4.26	Horizontal
972.34	46.34	23.84	5.12	31.22	44.08	54.00	-9.92	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	37.46	31.28	8.62	24.17	53.19	74.00	-20.81	Vertical
7236.00	30.73	35.36	11.68	26.52	51.25	74.00	-22.75	Vertical
9648.00	31.12	37.44	14.16	25.44	57.28	74.00	-16.72	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	32.82	31.28	8.62	24.17	48.55	74.00	-25.45	Horizontal
7236.00	27.80	35.36	11.68	26.52	48.32	74.00	-25.68	Horizontal
9648.00	28.06	37.44	14.16	25.44	54.22	74.00	-19.78	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	27.79	31.28	8.62	24.17	43.52	54.00	-10.48	Vertical
7236.00	23.46	35.36	11.68	26.52	43.98	54.00	-10.02	Vertical
9648.00	18.64	37.44	14.16	25.44	44.80	54.00	-9.20	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	22.90	31.28	8.62	24.17	38.63	54.00	-15.37	Horizontal
7236.00	19.49	35.36	11.68	26.52	40.01	54.00	-13.99	Horizontal
9648.00	20.55	37.44	14.16	25.44	46.71	54.00	-7.29	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

## Remark:

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b		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	37.69	32.02	8.66	24.12	54.25	74.00	-19.75	Vertical
7311.00	31.00	36.64	11.71	26.71	52.64	74.00	-21.36	Vertical
9748.00	30.36	38.54	14.25	25.38	57.77	74.00	-16.23	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	34.14	32.02	8.66	24.12	50.70	74.00	-23.30	Horizontal
7311.00	27.73	36.64	11.71	26.71	49.37	74.00	-24.63	Horizontal
9748.00	28.45	38.54	14.25	25.38	55.86	74.00	-18.14	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	28.05	32.02	8.66	24.12	44.61	54.00	-9.39	Vertical
7311.00	23.43	36.64	11.71	26.71	45.07	54.00	-8.93	Vertical
9748.00	17.78	38.54	14.25	25.38	45.19	54.00	-8.81	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	24.33	32.02	8.66	24.12	40.89	54.00	-13.11	Horizontal
7311.00	19.40	36.64	11.71	26.71	41.04	54.00	-12.96	Horizontal
9748.00	19.92	38.54	14.25	25.38	47.33	54.00	-6.67	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

## Remark:

Shenzhen, China 518102

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b		Т	est c	hannel:		Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prean Facto (dB)	or	Level (dBuV/m)	Limit L (dBuV		Over Limit (dB)	polarization
4924.00	38.23	32.14	8.70	24.0	5	55.02	74.0	0	-18.98	Vertical
7386.00	30.82	36.75	11.76	26.90	0	52.43	74.0	0	-21.57	Vertical
9848.00	30.04	38.79	14.31	25.30	0	57.84	74.0	0	-16.16	Vertical
12310.00	*						74.0	0		Vertical
14772.00	*						74.0	0		Vertical
17234.00	*						74.0	0		Vertical
4924.00	33.70	32.14	8.70	24.0	5	50.49	74.0	0	-23.51	Horizontal
7386.00	28.07	36.75	11.76	26.90	0	49.68	74.0	0	-24.32	Horizontal
9848.00	25.67	38.79	14.31	25.30	0	53.47	74.0	0	-20.53	Horizontal
12310.00	*						74.0	0		Horizontal
14772.00	*						74.0	0		Horizontal
17234.00	*						74.0	0		Horizontal
Average val	ue:							•		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prean Facto (dB)	or	Level (dBuV/m)	Limit L (dBuV		Over Limit (dB)	polarization
4924.00	27.59	32.14	8.70	24.0	5	44.38	54.0	0	-9.62	Vertical
7386.00	23.05	36.75	11.76	26.90	0	44.66	54.0	0	-9.34	Vertical
9848.00	16.36	38.79	14.31	25.30	0	44.16	54.0	0	-9.84	Vertical
12310.00	*						54.0	0		Vertical
14772.00	*						54.0	0		Vertical
17234.00	*						54.0	0		Vertical
4924.00	23.09	32.14	8.70	24.0	5	39.88	54.0	0	-14.12	Horizontal
7386.00	19.58	36.75	11.76	26.90	0	41.19	54.0	0	-12.81	Horizontal
9848.00	17.14	38.79	14.31	25.30	0	44.94	54.0	0	-9.06	Horizontal
12310.00	*	_					54.0	0		Horizontal
14772.00	*						54.0	0		Horizontal
17234.00	*						54.0	0		Horizontal

## Remark:

Shenzhen, China 518102

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Test	channel:	lowes	st	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	38.73	31.28	8.62	24.17	54.46	74.00	-19.54	Vertical
7236.00	32.32	35.36	11.68	26.52	52.84	74.00	-21.16	Vertical
9648.00	30.87	37.44	14.16	25.44	57.03	74.00	-16.97	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.00	31.28	8.62	24.17	53.73	74.00	-20.27	Horizontal
7236.00	31.95	35.36	11.68	26.52	52.47	74.00	-21.53	Horizontal
9648.00	33.95	37.44	14.16	25.44	60.11	74.00	-13.89	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	29.15	31.28	8.62	24.17	44.88	54.00	-9.12	Vertical
7236.00	26.55	35.36	11.68	26.52	47.07	54.00	-6.93	Vertical
9648.00	20.49	37.44	14.16	25.44	46.65	54.00	-7.35	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	24.82	31.28	8.62	24.17	40.55	54.00	-13.45	Horizontal
7236.00	25.98	35.36	11.68	26.52	46.50	54.00	-7.50	Horizontal
9648.00	20.60	37.44	14.16	25.44	46.76	54.00	-7.24	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*	_				54.00		Horizontal

## Remark:

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Test	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	37.20	32.02	8.66	24.12	53.76	74.00	-20.24	Vertical
7311.00	31.31	36.64	11.71	26.71	52.95	74.00	-21.05	Vertical
9748.00	30.65	38.54	14.25	25.38	58.06	74.00	-15.94	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	34.33	32.02	8.66	24.12	50.89	74.00	-23.11	Horizontal
7311.00	30.79	36.64	11.71	26.71	52.43	74.00	-21.57	Horizontal
9748.00	31.25	38.54	14.25	25.38	58.66	74.00	-15.34	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	28.65	32.02	8.66	24.12	45.21	54.00	-8.79	Vertical
7311.00	23.84	36.64	11.71	26.71	45.48	54.00	-8.52	Vertical
9748.00	19.37	38.54	14.25	25.38	46.78	54.00	-7.22	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	25.76	32.02	8.66	24.12	42.32	54.00	-11.68	Horizontal
7311.00	22.00	36.64	11.71	26.71	43.64	54.00	-10.36	Horizontal
9748.00	18.60	38.54	14.25	25.38	46.01	54.00	-7.99	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

## Remark:

Shenzhen, China 518102

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>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	39.77	32.14	8.70	24.05	56.56	74.00	-17.44	Vertical
7386.00	32.64	36.75	11.76	26.90	54.25	74.00	-19.75	Vertical
9848.00	31.27	38.79	14.31	25.30	59.07	74.00	-14.93	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	37.45	32.14	8.70	24.05	54.24	74.00	-19.76	Horizontal
7386.00	30.94	36.75	11.76	26.90	52.55	74.00	-21.45	Horizontal
9848.00	30.29	38.79	14.31	25.30	58.09	74.00	-15.91	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	28.86	32.14	8.70	24.05	45.65	54.00	-8.35	Vertical
7386.00	24.67	36.75	11.76	26.90	46.28	54.00	-7.72	Vertical
9848.00	18.69	38.79	14.31	25.30	46.49	54.00	-7.51	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	25.87	32.14	8.70	24.05	42.66	54.00	-11.34	Horizontal
7386.00	22.88	36.75	11.76	26.90	44.49	54.00	-9.51	Horizontal
9848.00	19.04	38.79	14.31	25.30	46.84	54.00	-7.16	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

## Remark:

Shenzhen, China 518102

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>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	38.11	31.28	8.62	24.17	53.84	74.00	-20.16	Vertical
7236.00	30.63	35.36	11.68	26.52	51.15	74.00	-22.85	Vertical
9648.00	30.46	37.44	14.16	25.44	56.62	74.00	-17.38	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	35.83	31.28	8.62	24.17	51.56	74.00	-22.44	Horizontal
7236.00	29.38	35.36	11.68	26.52	49.90	74.00	-24.10	Horizontal
9648.00	29.35	37.44	14.16	25.44	55.51	74.00	-18.49	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	29.26	31.28	8.62	24.17	44.99	54.00	-9.01	Vertical
7236.00	24.97	35.36	11.68	26.52	45.49	54.00	-8.51	Vertical
9648.00	21.05	37.44	14.16	25.44	47.21	54.00	-6.79	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	25.51	31.28	8.62	24.17	41.24	54.00	-12.76	Horizontal
7236.00	22.95	35.36	11.68	26.52	43.47	54.00	-10.53	Horizontal
9648.00	18.09	37.44	14.16	25.44	44.25	54.00	-9.75	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

## Remark:

Shenzhen, China 518102

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)	Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	37.28	32.02	8.66	24.12	53.84	74.00	-20.16	Vertical
7311.00	31.39	36.64	11.71	26.71	53.03	74.00	-20.97	Vertical
9748.00	31.94	38.54	14.25	25.38	59.35	74.00	-14.65	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	36.96	32.02	8.66	24.12	53.52	74.00	-20.48	Horizontal
7311.00	28.90	36.64	11.71	26.71	50.54	74.00	-23.46	Horizontal
9748.00	28.84	38.54	14.25	25.38	56.25	74.00	-17.75	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	27.59	32.02	8.66	24.12	44.15	54.00	-9.85	Vertical
7311.00	23.49	36.64	11.71	26.71	45.13	54.00	-8.87	Vertical
9748.00	20.48	38.54	14.25	25.38	47.89	54.00	-6.11	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	25.28	32.02	8.66	24.12	41.84	54.00	-12.16	Horizontal
7311.00	22.43	36.64	11.71	26.71	44.07	54.00	-9.93	Horizontal
9748.00	15.99	38.54	14.25	25.38	43.40	54.00	-10.60	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

## Remark:

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	T20)	Tes	t channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	37.56	32.14	8.70	24.05	54.35	74.00	-19.65	Vertical
7386.00	31.58	36.75	11.76	26.90	53.19	74.00	-20.81	Vertical
9848.00	31.17	38.79	14.31	25.30	58.97	74.00	-15.03	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	35.72	32.14	8.70	24.05	52.51	74.00	-21.49	Horizontal
7386.00	28.86	36.75	11.76	26.90	50.47	74.00	-23.53	Horizontal
9848.00	28.40	38.79	14.31	25.30	56.20	74.00	-17.80	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	29.29	32.14	8.70	24.05	46.08	54.00	-7.92	Vertical
7386.00	25.77	36.75	11.76	26.90	47.38	54.00	-6.62	Vertical
9848.00	19.87	38.79	14.31	25.30	47.67	54.00	-6.33	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	25.99	32.14	8.70	24.05	42.78	54.00	-11.22	Horizontal
7386.00	22.69	36.75	11.76	26.90	44.30	54.00	-9.70	Horizontal
9848.00	15.55	38.79	14.31	25.30	43.35	54.00	-10.65	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

## Remark:

Shenzhen, China 518102

<sup>1</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2 &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT40)	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
4844.00	36.69	31.40	8.63	24.04	52.68	74.00	-21.32	Vertical
7266.00	30.08	35.96	11.69	26.47	51.26	74.00	-22.74	Vertical
9688.00	30.05	37.71	14.21	25.30	56.67	74.00	-17.33	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4844.00	35.41	31.40	8.63	24.04	51.40	74.00	-22.60	Horizontal
7266.00	30.15	35.96	11.69	26.47	51.33	74.00	-22.67	Horizontal
9688.00	30.18	37.71	14.21	25.30	56.80	74.00	-17.20	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
4844.00	28.64	31.40	8.63	24.04	44.63	54.00	-9.37	Vertical
7266.00	21.51	35.96	11.69	26.47	42.69	54.00	-11.31	Vertical
9688.00	17.67	37.71	14.21	25.30	44.29	54.00	-9.71	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	26.06	31.40	8.63	24.04	42.05	54.00	-11.95	Horizontal
7266.00	19.79	35.96	11.69	26.47	40.97	54.00	-13.03	Horizontal
9688.00	17.03	37.71	14.21	25.30	43.65	54.00	-10.35	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.

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Test mode:		802.11n(HT40)		Test channel:		Middle		
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.28	32.02	8.66	24.12	54.84	74.00	-19.16	Vertical
7311.00	28.84	36.64	11.71	26.71	50.48	74.00	-23.52	Vertical
9748.00	28.65	38.54	14.25	25.38	56.06	74.00	-17.94	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	37.02	32.02	8.66	24.12	53.58	74.00	-20.42	Horizontal
7311.00	29.82	36.64	11.71	26.71	51.46	74.00	-22.54	Horizontal
9748.00	29.23	38.54	14.25	25.38	56.64	74.00	-17.36	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	27.45	32.02	8.66	24.12	44.01	54.00	-9.99	Vertical
7311.00	22.87	36.64	11.71	26.71	44.51	54.00	-9.49	Vertical
9748.00	17.97	38.54	14.25	25.38	45.38	54.00	-8.62	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	24.27	32.02	8.66	24.12	40.83	54.00	-13.17	Horizontal
7311.00	22.55	36.64	11.71	26.71	44.19	54.00	-9.81	Horizontal
9748.00	15.98	38.54	14.25	25.38	43.39	54.00	-10.61	Horizontal
12185.00	*	_				54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

## Remark:

<sup>1.</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

<sup>2. &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



Test mode:	node: 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	36.03	32.08	8.68	23.97	52.82	74.00	-21.18	Vertical
7356.00	28.66	36.69	11.74	26.73	50.36	74.00	-23.64	Vertical
9808.00	28.98	38.60	14.29	25.22	56.65	74.00	-17.35	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	35.46	32.08	8.68	23.97	52.25	74.00	-21.75	Horizontal
7356.00	29.22	36.69	11.74	26.73	50.92	74.00	-23.08	Horizontal
9808.00	29.03	38.60	14.29	25.22	56.70	74.00	-17.30	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	28.74	32.08	8.68	23.97	45.53	54.00	-8.47	Vertical
7356.00	23.19	36.69	11.74	26.73	44.89	54.00	-9.11	Vertical
9808.00	16.50	38.60	14.29	25.22	44.17	54.00	-9.83	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	25.78	32.08	8.68	23.97	42.57	54.00	-11.43	Horizontal
7356.00	20.95	36.69	11.74	26.73	42.65	54.00	-11.35	Horizontal
9808.00	17.98	38.60	14.29	25.22	45.65	54.00	-8.35	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

## Remark:

Shenzhen, China 518102

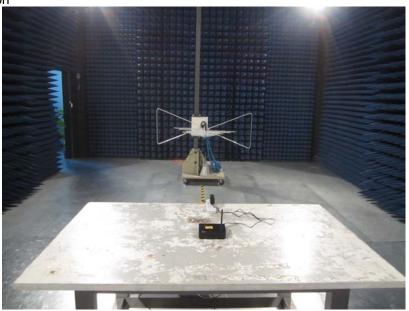
<sup>1</sup> Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

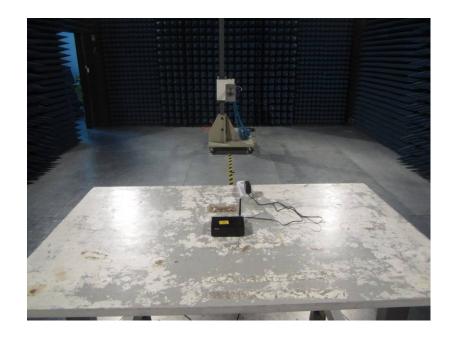
<sup>2 &</sup>quot;\*", means this data is the too weak instrument of signal is unable to test.



# 8 Test Setup Photo

Radiated Emission





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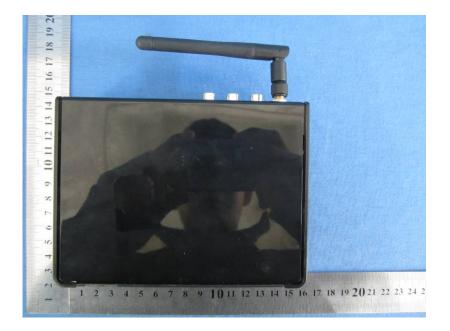
## Conducted Emission



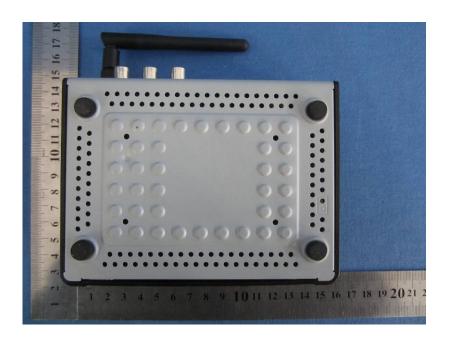


# 9 EUT Constructional Details











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