

Global United Technology Services Co., Ltd.

Report No.: GTSE14090167101

FCC Report (WIFI)

Applicant: Kobian Canada Inc.,

Address of Applicant: 560 Denison Street, Unit#5, Markham, Ontario, Canada,

L3R 2M8

Equipment Under Test (EUT)

Product Name: Flare 3

Model No.: HS-9DTB37

hipstreet

Trade Mark: FLARE³

FCC ID: YH5-9DTB37

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

Date of sample receipt: September 19, 2014

Date of Test: September 19-24, 2014

Date of report issued: September 24, 2014

Test Result: PASS *

Authorized Signature:

Robinson Lo Laboratory Manager

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

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



2 Version

Version No.	Date	Description
00	September 24, 2014	Original

Ргерагео ву:	van. Gao	Date:	September 24, 2014	
	Project Engineer			

Check By: Date: September 24, 2014

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 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:	Kobian Canada Inc.,
Address of Applicant:	560 Denison Street, Unit#5, Markham, Ontario, Canada, L3R 2M8
Manufacturer:	Kobian Canada Inc.,
Address of Manufacturer:	560 Denison Street, Unit#5, Markham, Ontario, Canada, L3R 2M8

5.2 General Description of EUT

Product Name:	Flare 3
Model No.:	HS-9DTB37
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:	1.6dBi (declare by Applicant)
Power supply:	Input: DC 5V, 2A from adapter
	Or
	DC 3.7V, 4000mAh Li-ion Battery
Adapter Information:	Model No.:SUN-0500200
	Input: AC 100-240V, 50/60Hz, 0.3A max
	Output: DC 5V, 2A



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

Note:

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

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

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

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

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

5.4 Description of Support Units

None

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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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

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



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

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



7 Test results and Measurement Data

7.1 Antenna requirement

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

15.203 requirement:

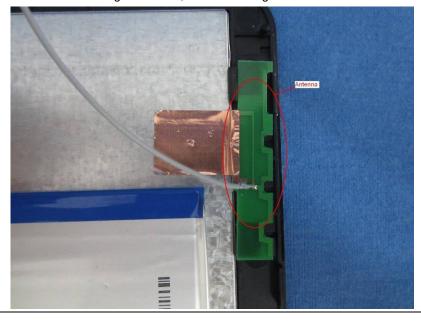
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 1.6dBi





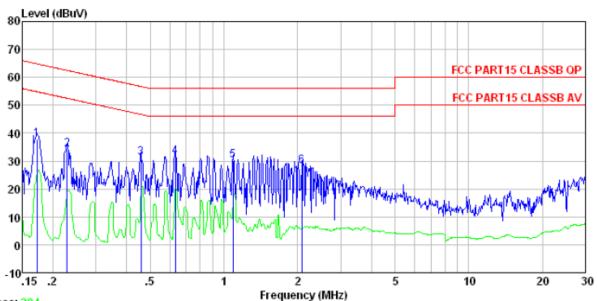
7.2 Conducted Emissions

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



Measurement data

Line:



Trace: 204

Condition : FCC PART15 CLASSB QP LISN-2013 LINE

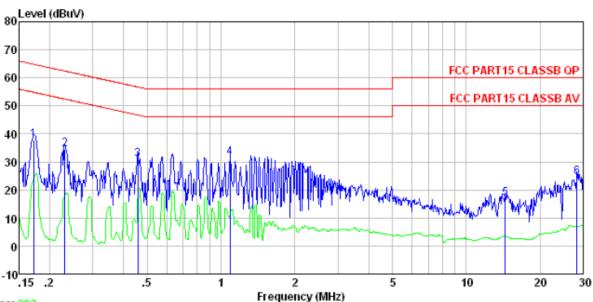
Job No. : 1671RF Test mode : WiFi mode

Test Engineer: Mike

	Freq		LISN Factor				Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1 2 3 4 5 6	0. 229 0. 459 0. 634 1. 088	30.96 31.12 30.00	0.12 0.12	0.12 0.11 0.13 0.13	34. 29 31. 19 31. 38 30. 26	62. 48 56. 71 56. 00 56. 00	-28. 19 -25. 52 -24. 62 -25. 74	QP QP QP QP



Neutral:



Trace: 202

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 1671RF Test mode : WiFi mode Test Engineer: Mike

	Freq	Read	LISN Factor				Over Limit	Remark	
	MHz	dBuV	dB	dB	dBuV	dBuV	dB		
1 2 3			0.06	0.12 0.12 0.11	34.47	62.44	-27.97	QP	
4 5 6	1.088 14.440	31.19 16.50		0.13 0.22	31.40 17.05	56.00 60.00	-24.60 -42.95	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		Peak Outp	Limit(dBm)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(abin)	Nesuit
Lowest	7.54	6.39	6.87	5.97		Pass
Middle	7.49	6.54	6.92	5.86	30.00	
Highest	7.50	6.46	6.82	5.92		



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

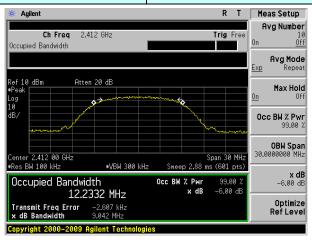
Test CH		Channel Ban	Limit(KHz)	Result		
1631 011	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Littil(Ki12)	Result
Lowest	9.042	16.377	17.628	35.352		Pass
Middle	9.562	16.424	17.631	36.298	>500	
Highest	10.574	16.521	17.652	36.164		

Test plot as follows:

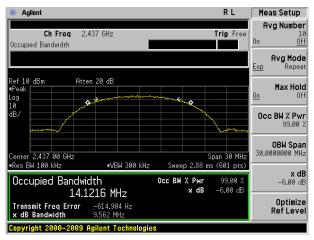
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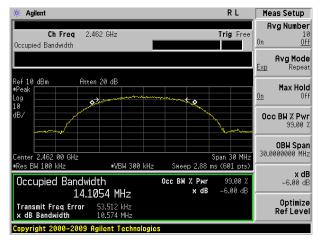
Test mode: 802.11b



Lowest channel



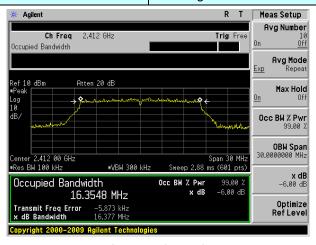
Middle channel



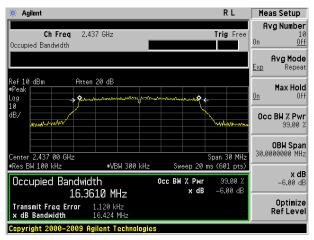
Highest channel



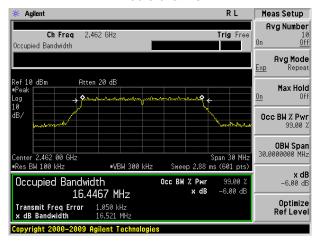
Test mode: 802.11g



Lowest channel



Middle channel

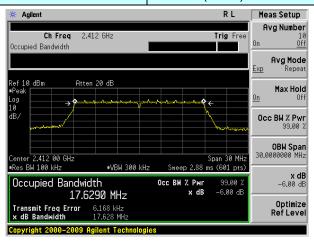


Highest channel

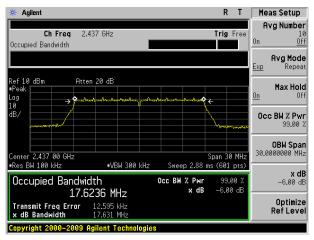
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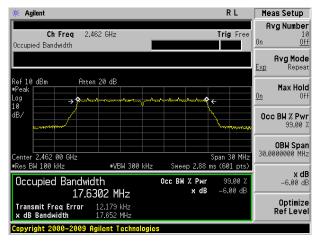
Test mode: 802.11n(HT20)



Lowest channel



Middle channel



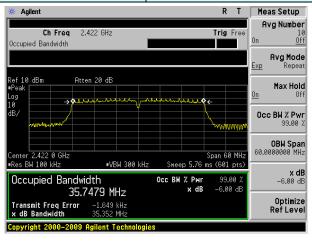
Highest channel

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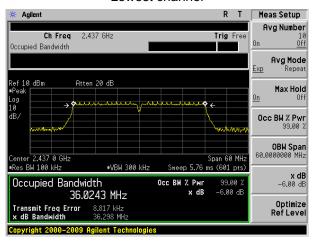


Project No.: GTSE140901671RF

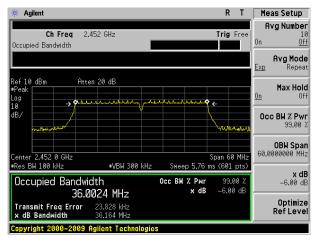
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)		
Test Method:	ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03		
Limit:	8dBm		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

Measurement Data

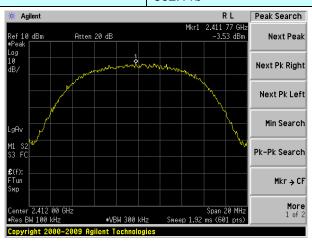
Test CH		Power Spectra	Limit(dBm/3kHz)	Result		
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(dBm/3Km2)	Nesuit
Lowest	-3.53	-4.85	-7.47	-9.99		Pass
Middle	-4.78	-4.78	-7.23	-10.74	8.00	
Highest	-4.05	-4.79	-6.77	-10.63		

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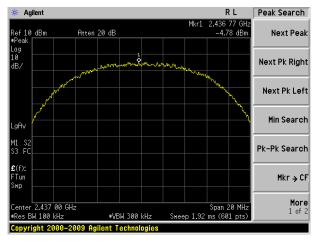


Test plot as follows:

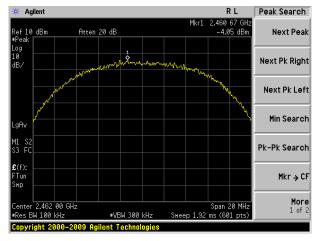
Test mode: 802.11b



Lowest channel



Middle channel

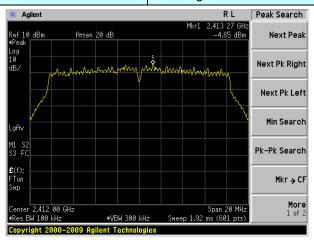


Highest channel

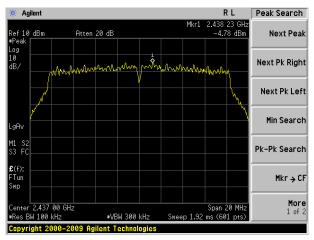
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



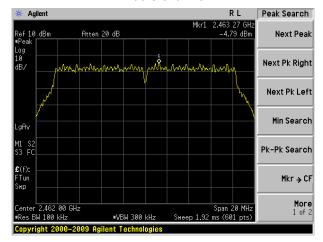
Test mode: 802.11g



Lowest channel



Middle channel

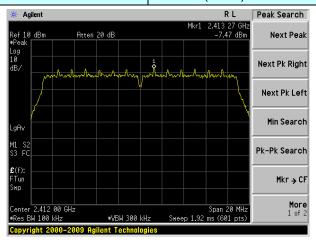


Highest channel

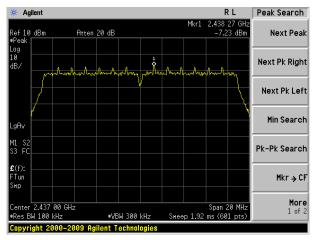
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



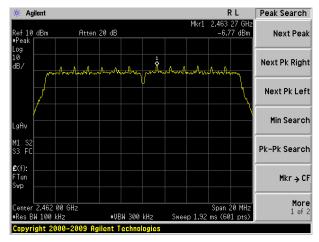
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

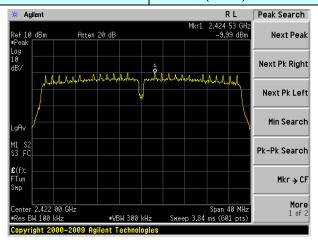


Highest channel

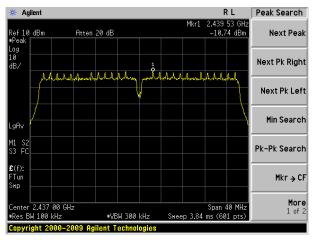
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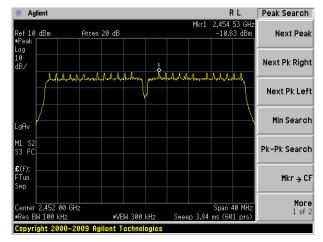
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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7.6 Band edges

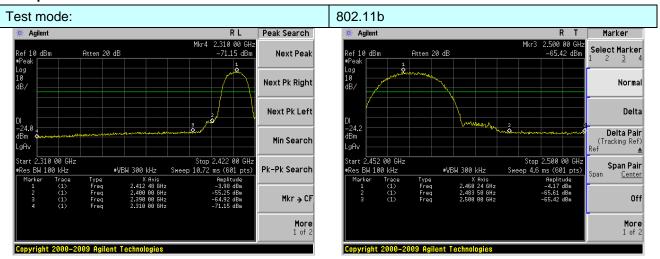
7.6.1 Conducted Emission Method

To at Dogwins month	FOO Double O Continue 45 047 (d)				
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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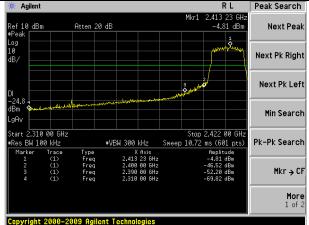
Test plot as follows:



Lowest channel

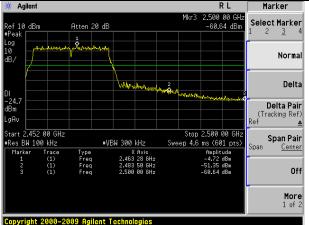
Highest channel

Test mode: Agilent



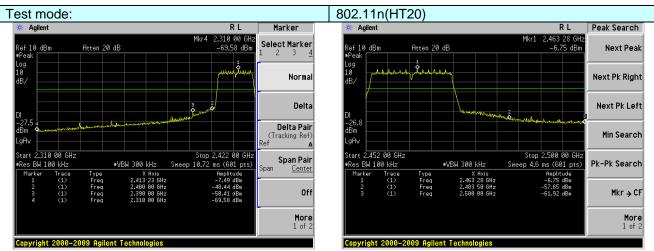
Lowest channel





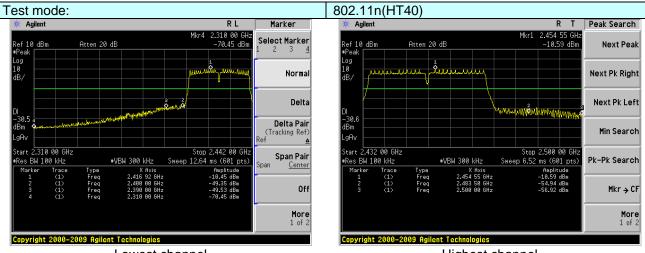
Highest channel





Lowest channel

Highest channel



Lowest channel

Highest channel

Shenzhen, China 518102



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205								
Test Method:	ANSI C63.4: 20	ANSI C63.4: 2003							
Test Frequency Range:	All of the restrict 2500MHz) data		tested, only	the worst b	and's (2390MHz to				
Test site:	Measurement D								
Receiver setup:	Frequency	Detector	RBW	VBW	Value				
·		Peak	1MHz	3MHz	Peak				
	Above 1GHz	RMS	1MHz	3MHz	Average				
Limit:	Freque	ency	Limit (dBuV	/m @3m)	Value				
			54.0		Average				
	Above 1	GHZ	74.0	0	Peak				
Test setup:	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 determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make measurement. For each suspected emission, the EUT was arranged to its worst calcand then the antenna was turned to heights from 1 meter to 4 meter and the rotal table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak value of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quas peak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis positionin And found the Y axis positioning which it is worse case, only the testing could be stopped and the peak value of the EUT was a specified and then reported in a data sheet. 								
Test Instruments:	Refer to section 6.0 for details								
Test mode:	Refer to section	5.3 for details							
Test results:	Pass								



Measurement data:

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

Test mode:	802.11b	Test channel:	Lowest
i oot iiiodo.	002.110	1 oot onarmon	_000.

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	49.90	27.59	5.38	30.18	52.69	74.00	-21.31	Horizontal
2400.00	58.33	27.58	5.39	30.18	61.12	74.00	-12.88	Horizontal
2390.00	51.46	27.59	5.38	30.18	54.25	74.00	-19.75	Vertical
2400.00	59.65	27.58	5.39	30.18	62.44	74.00	-11.56	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	37.17	27.59	5.38	30.18	39.96	54.00	-14.04	Horizontal
2400.00	45.27	27.58	5.39	30.18	48.06	54.00	-5.94	Horizontal
2390.00	38.85	27.59	5.38	30.18	41.64	54.00	-12.36	Vertical
2400.00	46.26	27.58	5.39	30.18	49.05	54.00	-4.95	Vertical

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

Peak value:

					8			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.81	27.53	5.47	29.93	52.88	74.00	-21.12	Horizontal
2500.00	46.19	27.55	5.49	29.93	49.30	74.00	-24.70	Horizontal
2483.50	51.71	27.53	5.47	29.93	54.78	74.00	-19.22	Vertical
2500.00	48.38	27.55	5.49	29.93	51.49	74.00	-22.51	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	37.27	27.53	5.47	29.93	40.34	54.00	-13.66	Horizontal
2500.00	33.70	27.55	5.49	29.93	36.81	54.00	-17.19	Horizontal
2483.50	39.06	27.53	5.47	29.93	42.13	54.00	-11.87	Vertical
2500.00	35.51	27.55	5.49	29.93	38.62	54.00	-15.38	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.: GTSE140901671RF

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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	49.12	27.59	5.38	30.18	51.91	74.00	-22.09	Horizontal
2400.00	57.29	27.58	5.39	30.18	60.08	74.00	-13.92	Horizontal
2390.00	50.63	27.59	5.38	30.18	53.42	74.00	-20.58	Vertical
2400.00	58.41	27.58	5.39	30.18	61.20	74.00	-12.80	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	36.61	27.59	5.38	30.18	39.40	54.00	-14.60	Horizontal
2400.00	44.63	27.58	5.39	30.18	47.42	54.00	-6.58	Horizontal
2390.00	38.23	27.59	5.38	30.18	41.02	54.00	-12.98	Vertical
2400.00	45.56	27.58	5.39	30.18	48.35	54.00	-5.65	Vertical
Test mode:	Test mode: 802.11g		Tes	st channel:	ŀ	Highest		
Peak value	:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.70	27.53	5.47	29.93	51.77	74.00	-22.23	Horizontal
2500.00	45.33	27.55	5.49	29.93	48.44	74.00	-25.56	Horizontal
2483.50	50.44	27.53	5.47	29.93	53.51	74.00	-20.49	Vertical
2500.00	47.37	27.55	5.49	29.93	50.48	74.00	-23.52	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	36.60	27.53	5.47	29.93	39.67	54.00	-14.33	Horizontal
2500.00	33.18	27.55	5.49	29.93	36.29	54.00	-17.71	Horizontal
2483.50	38.32	27.53	5.47	29.93	41.39	54.00	-12.61	Vertical
2500.00	34.96	27.55	5.49	29.93	38.07	54.00	-15.93	Vertical
Remark:								

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Shenzhen, China 518102

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:

Report No.: GTSE14090167101

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	49.51	27.59	5.38	30.18	52.30	74.00	-21.70	Horizontal
2400.00	57.81	27.58	5.39	30.18	60.60	74.00	-13.40	Horizontal
2390.00	51.05	27.59	5.38	30.18	53.84	74.00	-20.16	Vertical
2400.00	59.03	27.58	5.39	30.18	61.82	74.00	-12.18	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	36.89	27.59	5.38	30.18	39.68	54.00	-14.32	Horizontal
2400.00	44.95	27.58	5.39	30.18	47.74	54.00	-6.26	Horizontal
2390.00	38.54	27.59	5.38	30.18	41.33	54.00	-12.67	Vertical
2400.00	45.91	27.58	5.39	30.18	48.70	54.00	-5.30	Vertical
Test mode:		802.1	1n(HT20)	Tes	st channel:	F	lighest	
Peak value	:				_			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.25	27.53	5.47	29.93	52.32	74.00	-21.68	Horizontal
2500.00	45.76	27.55	5.49	29.93	48.87	74.00	-25.13	Horizontal
2483.50	51.07	27.53	5.47	29.93	54.14	74.00	-19.86	Vertical
2500.00	47.87	27.55	5.49	29.93	50.98	74.00	-23.02	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	36.93	27.53	5.47	29.93	40.00	54.00	-14.00	Horizontal
2500.00	33.44	27.55	5.49	29.93	36.55	54.00	-17.45	Horizontal
0.400 50	20.60	27.53	5.47	29.93	41.76	54.00	-12.24	Vertical
2483.50	38.69	21.55	0.47	20.00		000		
2500.00	35.24	27.55	5.49	29.93	38.35	54.00	-15.65	Vertical

Test channel:

802.11n(HT20)

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

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

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Test mode:

Report No.: GTSE14090167101

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	48.54	27.59	5.38	30.18	51.33	74.00	-22.67	Horizontal
2400.00	56.51	27.58	5.39	30.18	59.30	74.00	-14.70	Horizontal
2390.00	50.01	27.59	5.38	30.18	52.80	74.00	-21.20	Vertical
2400.00	57.47	27.58	5.39	30.18	60.26	74.00	-13.74	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	36.20	27.59	5.38	30.18	38.99	54.00	-15.01	Horizontal
2400.00	44.16	27.58	5.39	30.18	46.95	54.00	-7.05	Horizontal
2390.00	37.77	27.59	5.38	30.18	40.56	54.00	-13.44	Vertical
2400.00	45.04	27.58	5.39	30.18	47.83	54.00	-6.17	Vertical
Test mode:		802.1	1n(HT40)	Tes	st channel:	H	lighest	
Peak value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	47.87	27.53	5.47	29.93	50.94	74.00	-23.06	Horizontal
2500.00	44.69	27.55	5.49	29.93	47.80	74.00	-26.20	Horizontal
2483.50								
	49.49	27.53	5.47	29.93	52.56	74.00	-21.44	Vertical
2500.00	49.49 46.61	27.53 27.55	5.47 5.49	29.93 29.93	52.56 49.72	74.00 74.00	-21.44 -24.28	Vertical Vertical
2500.00 Average va	46.61							
	46.61							
Average va	46.61 lue: Read Level	27.55 Antenna Factor	5.49 Cable Loss	29.93 Preamp Factor	49.72 Level	74.00 Limit Line	-24.28 Over Limit	Vertical
Average va Frequency (MHz)	46.61 Iue: Read Level (dBuV)	27.55 Antenna Factor (dB/m)	5.49 Cable Loss (dB)	29.93 Preamp Factor (dB)	49.72 Level (dBuV/m)	74.00 Limit Line (dBuV/m)	-24.28 Over Limit (dB)	Vertical Polarization
Average va Frequency (MHz) 2483.50	46.61 Iue: Read Level (dBuV) 36.09	27.55 Antenna Factor (dB/m) 27.53	5.49 Cable Loss (dB) 5.47	Preamp Factor (dB) 29.93	49.72 Level (dBuV/m) 39.16	74.00 Limit Line (dBuV/m) 54.00	-24.28 Over Limit (dB) -14.84	Vertical Polarization Horizontal
Frequency (MHz) 2483.50 2500.00	46.61 lue: Read Level (dBuV) 36.09 32.79	27.55 Antenna Factor (dB/m) 27.53 27.55	5.49 Cable Loss (dB) 5.47 5.49	29.93 Preamp Factor (dB) 29.93 29.93	49.72 Level (dBuV/m) 39.16 35.90	74.00 Limit Line (dBuV/m) 54.00 54.00	-24.28 Over Limit (dB) -14.84 -18.10	Vertical Polarization Horizontal Horizontal

Test channel:

802.11n(HT40)

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

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

Shenzhen, China 518102

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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				

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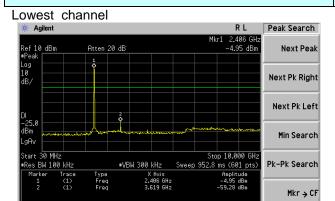


Test plot as follows:

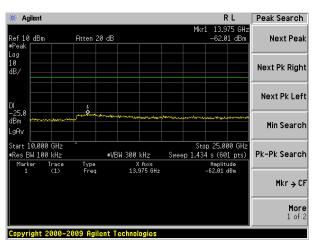
Test mode:

802.11b

More 1 of 2



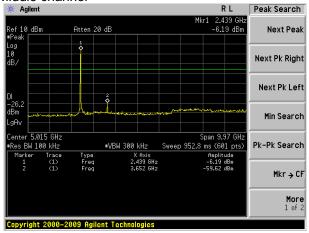
30MHz~10GHz



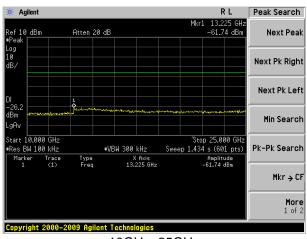
10GHz~25GHz



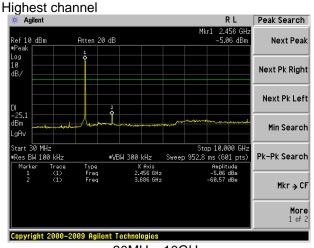
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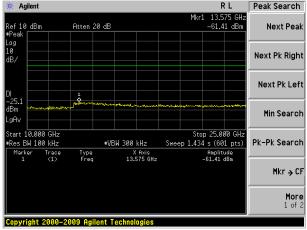
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



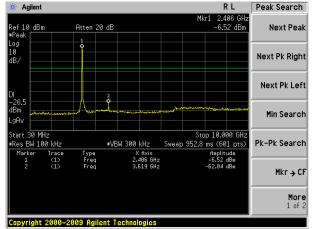
10GHz~25GHz



Test mode:

802.11g

Lowest channel



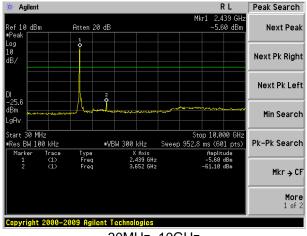
30MHz~10GHz

Agilent R T Peak Search Ref 10 dBm Atten 20 dE Next Peak Next Pk Right Next Pk Left Min Search gAv Start 10.000 GHz •Res BW 100 kHz Stop 25.000 GHz Sweep 1.434 s (601 pts) #VBW 300 kHz Pk-Pk Search Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

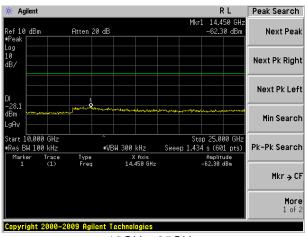
10GHz~25GHz

Middle channel

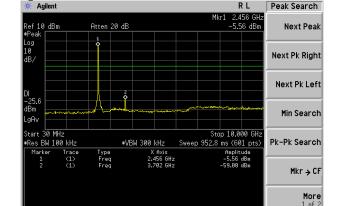
Highest channel



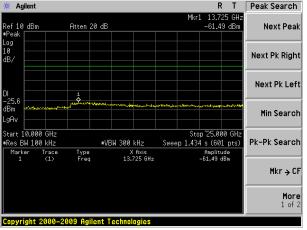
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



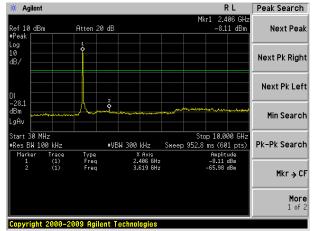
10GHz~25GHz



Test mode:

802.11n(HT20)

Lowest channel



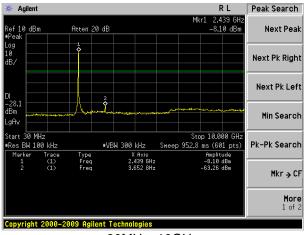
30MHz~10GHz

R L Peak Search Agilent Next Peak Atten 20 dB Next Pk Right Next Pk Left Min Search Start 10.000 GHz •Res BW 100 kHz Stop 25.000 GH: Sweep 1.434 s (601 pts) Pk-Pk Search X Axis 14.325 GHz Mkr → CF More 1 of 2

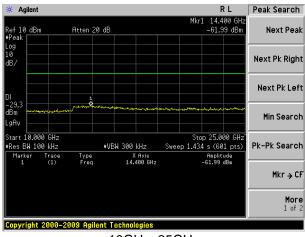
10GHz~25GHz

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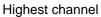
Middle channel

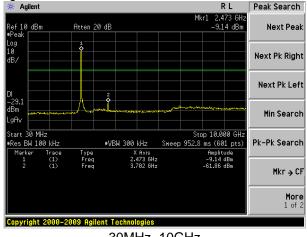


30MHz~10GHz

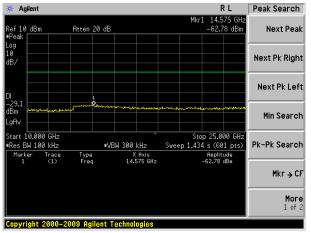


10GHz~25GHz





30MHz~10GHz



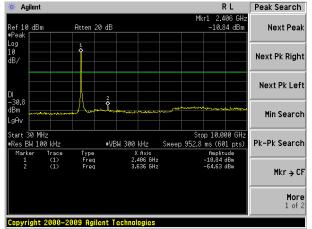
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

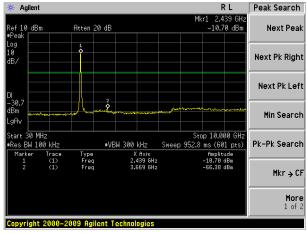


30MHz~10GHz

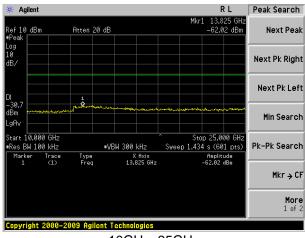
* Agilent Peak Search 14.650 GHz -61.25 dBm Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH Sweep 1.434 s (601 pts) #VBW 300 kHz Pk-Pk Search ■Res BW 100 kHz Type Freq X Axis 14.650 GHz Amplitude -61.25 dBm Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

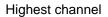
Middle channel

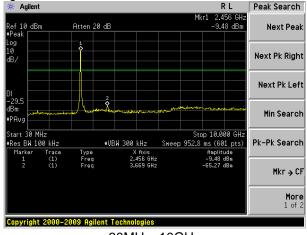


30MHz~10GHz

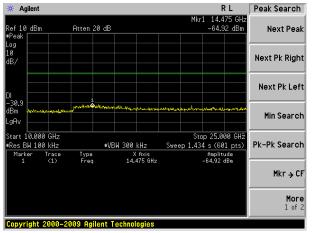


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

ANSI C63.4: 200										
30MHz to 25GHz										
301VII 12 to 2301 12	30MHz to 25GHz									
Measurement Dis	stance: 3m									
Frequency	Frequency Detector RBW VBW V									
30MHz-1GHz	30MHz-1GHz Quasi-peak 120KHz 300KHz Quasi-peak									
Abovo 1GHz										
Above 1G112	Above 1GHz									
Frequen	icy l	_imit (dBuV/	/m @3m)	Value						
30MHz-88	MHz	40.0	0	Quasi-peak						
88MHz-216	88MHz-216MHz 43.50 Quasi-peak									
216MHz-96	216MHz-960MHz 46.00 Quasi-peak									
960MHz-1	GHz	54.0	0	Quasi-peak						
Above 16	`U-	54.0	0	Average						
Above 10	Above 1GHz 74.00 Peak									
Tum 7.8m 7.8m 7.8m 7.8m 7.8m 7.8m 7.8m 7.8	4m	Hou	rn Antenna etrum							
	30MHz-1GHz Above 1GHz Frequen 30MHz-88 88MHz-216 216MHz-96 960MHz-1 Above 1C Below 1GHz Ground Plane Above 1GHz	30MHz-1GHz Quasi-peak Peak RMS Frequency 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz Below 1GHz Below 1GHz Below 1GHz Above 1GHz	30MHz-1GHz Quasi-peak 120KHz Above 1GHz Peak 1MHz RMS 1MHz RMS 1MHz Frequency Limit (dBuV/ 30MHz-88MHz 40.0 88MHz-216MHz 43.5 216MHz-960MHz 46.0 960MHz-1GHz 54.0 Above 1GHz Below 1GHz Below 1GHz Above 1GHz Above 1GHz	30MHz-1GHz Quasi-peak 120KHz 300KHz Above 1GHz Peak 1MHz 3MHz RMS 1MHz 3MHz Frequency Limit (dBuV/m @3m) 30MHz-88MHz 40.00 88MHz-216MHz 43.50 216MHz-960MHz 46.00 960MHz-1GHz 54.00 Above 1GHz 74.00 Below 1GHz Antenna Tower Antenna Tower Antenna Tower Antenna Tower Antenna Tower Antenna Tower Antenna Tower						

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.
	 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, quasi- peak or average method as specified and then reported in a data sheet.
	7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

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



Measurement Data

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
44.901	42.69	15.55	0.72	32.01	26.95	40.00	-13.05	Vertical
123.699	52.63	11.90	1.39	31.88	34.04	43.50	-9.46	Vertical
239.987	47.83	14.09	2.07	32.16	31.83	46.00	-14.17	Vertical
306.754	45.26	15.15	2.39	32.16	30.64	46.00	-15.36	Vertical
101.644	45.99	15.02	1.21	31.77	30.45	43.50	-13.05	Vertical
578.670	37.27	20.09	3.64	31.15	29.85	46.00	-16.15	Vertical
77.321	54.09	10.14	1.01	31.79	33.45	40.00	-6.55	Horizontal
207.850	49.32	12.80	1.89	32.14	31.87	43.50	-11.63	Horizontal
239.987	57.53	14.09	2.07	32.16	41.53	46.00	-4.47	Horizontal
383.932	47.12	16.68	2.78	31.93	34.65	46.00	-11.35	Horizontal
480.528	43.73	18.07	3.22	31.62	33.40	46.00	-12.60	Horizontal
301.422	48.22	15.08	2.37	32.17	33.50	46.00	-12.50	Horizontal



■ Above 1GHz

Test mode:		802.11b		Test	Test channel:		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	38.15	31.79	8.62	32.10	46.46	74.00	-27.54	Vertical
7236.00	32.86	36.19	11.68	31.97	48.76	74.00	-25.24	Vertical
9648.00	31.74	38.07	14.16	31.56	52.41	74.00	-21.59	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	37.15	31.79	8.62	32.10	45.46	74.00	-28.54	Horizontal
7236.00	32.78	36.19	11.68	31.97	48.68	74.00	-25.32	Horizontal
9648.00	31.40	38.07	14.16	31.56	52.07	74.00	-21.93	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	27.40	31.79	8.62	32.10	35.71	54.00	-18.29	Vertical
7236.00	21.78	36.19	11.68	31.97	37.68	54.00	-16.32	Vertical
9648.00	22.13	38.07	14.16	31.56	42.80	54.00	-11.20	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	26.80	31.79	8.62	32.10	35.11	54.00	-18.89	Horizontal
7236.00	21.40	36.19	11.68	31.97	37.30	54.00	-16.70	Horizontal
9648.00	21.18	38.07	14.16	31.56	41.85	54.00	-12.15	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11b		Tes	st 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	37.57	31.85	8.66	32.12	45.96	74.00	-28.04	Vertical
7311.00	33.17	36.37	11.71	31.91	49.34	74.00	-24.66	Vertical
9748.00	32.93	38.27	14.25	31.56	53.89	74.00	-20.11	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	38.33	31.85	8.66	32.12	46.72	74.00	-27.28	Horizontal
7311.00	31.95	36.37	11.71	31.91	48.12	74.00	-25.88	Horizontal
9748.00	32.88	38.27	14.25	31.56	53.84	74.00	-20.16	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	28.57	31.85	8.66	32.12	36.96	54.00	-17.04	Vertical
7311.00	21.52	36.37	11.71	31.91	37.69	54.00	-16.31	Vertical
9748.00	22.22	38.27	14.25	31.56	43.18	54.00	-10.82	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	28.53	31.85	8.66	32.12	36.92	54.00	-17.08	Horizontal
7311.00	21.07	36.37	11.71	31.91	37.24	54.00	-16.76	Horizontal
9748.00	22.62	38.27	14.25	31.56	43.58	54.00	-10.42	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

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



Test mode:		802.11b		Te	est chani	nel:		Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	; L	evel suV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	41.82	31.90	8.70	32.15	5 5	0.27	74.0	00	-23.73	Vertical
7386.00	33.03	36.49	11.76	31.83	3 4	9.45	74.0	00	-24.55	Vertical
9848.00	35.65	38.62	14.31	31.77	5	6.81	74.0	00	-17.19	Vertical
12310.00	*						74.0	00		Vertical
14772.00	*						74.0	00		Vertical
17234.00	*						74.0	00		Vertical
4924.00	41.60	31.90	8.70	32.15	5 5	0.05	74.0	00	-23.95	Horizontal
7386.00	32.17	36.49	11.76	31.83	3 4	8.59	74.0	00	-25.41	Horizontal
9848.00	31.92	38.62	14.31	31.77	5	3.08	74.0	00	-20.92	Horizontal
12310.00	*						74.0	00		Horizontal
14772.00	*						74.0	00		Horizontal
17234.00	*						74.0	00		Horizontal
Average val	ue:						,			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	; L	evel BuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4924.00	32.97	31.90	8.70	32.15	5 4	1.42	54.0	00	-12.58	Vertical
7386.00	23.01	36.49	11.76	31.83	3	9.43	54.0	00	-14.57	Vertical
9848.00	24.20	38.62	14.31	31.77	4	5.36	54.0	00	-8.64	Vertical
12310.00	*						54.0	00		Vertical
14772.00	*						54.0	00		Vertical
17234.00	*						54.0	00		Vertical
4924.00	32.12	31.90	8.70	32.15	4	0.57	54.0	00	-13.43	Horizontal
7386.00	21.61	36.49	11.76	31.83	3	8.03	54.0	00	-15.97	Horizontal
9848.00	21.23	38.62	14.31	31.77	4	2.39	54.0	00	-11.61	Horizontal
12310.00	*						54.0	00		Horizontal
14772.00	*						54.0	00		Horizontal
17234.00	*						54.0	00		Horizontal

Remark:

Shenzhen, China 518102

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

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



Test mode:		802.11g		Tes	st channel:	lowes	st	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	37.30	31.79	8.62	32.10	45.61	74.00	-28.39	Vertical
7236.00	32.33	36.19	11.68	31.97	48.23	74.00	-25.77	Vertical
9648.00	31.36	38.07	14.16	31.56	52.03	74.00	-21.97	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	36.43	31.79	8.62	32.10	44.74	74.00	-29.26	Horizontal
7236.00	32.31	36.19	11.68	31.97	48.21	74.00	-25.79	Horizontal
9648.00	31.04	38.07	14.16	31.56	51.71	74.00	-22.29	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	26.62	31.79	8.62	32.10	34.93	54.00	-19.07	Vertical
7236.00	21.26	36.19	11.68	31.97	37.16	54.00	-16.84	Vertical
9648.00	21.76	38.07	14.16	31.56	42.43	54.00	-11.57	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	26.13	31.79	8.62	32.10	34.44	54.00	-19.56	Horizontal
7236.00	20.94	36.19	11.68	31.97	36.84	54.00	-17.16	Horizontal
9648.00	20.84	38.07	14.16	31.56	41.51	54.00	-12.49	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

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



Test mode:		802.11g		Те	st channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	1 4//41	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	36.87	31.85	8.66	32.12	45.26	74.00	-28.74	Vertical
7311.00	32.72	36.37	11.71	31.91	48.89	74.00	-25.11	Vertical
9748.00	32.61	38.27	14.25	31.56	53.57	74.00	-20.43	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	37.74	31.85	8.66	32.12	46.13	74.00	-27.87	Horizontal
7311.00	31.56	36.37	11.71	31.91	47.73	74.00	-26.27	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)	Pream _l Factor (dB)	1 400	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	27.92	31.85	8.66	32.12	36.31	54.00	-17.69	Vertical
7311.00	21.09	36.37	11.71	31.91	37.26	54.00	-16.74	Vertical
9748.00	21.91	38.27	14.25	31.56	42.87	54.00	-11.13	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	27.98	31.85	8.66	32.12	36.37	54.00	-17.63	Horizontal
7311.00	20.69	36.37	11.71	31.91	36.86	54.00	-17.14	Horizontal
9748.00	22.34	38.27	14.25	31.56	43.30	54.00	-10.70	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*	_				54.00		Horizontal

Remark:

Shenzhen, China 518102

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

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



Test mode:		802.11g		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	40.61	31.90	8.70	32.15	49.06	74.00	-24.94	Vertical
7386.00	32.27	36.49	11.76	31.83	48.69	74.00	-25.31	Vertical
9848.00	35.10	38.62	14.31	31.77	56.26	74.00	-17.74	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	40.58	31.90	8.70	32.15	49.03	74.00	-24.97	Horizontal
7386.00	31.51	36.49	11.76	31.83	47.93	74.00	-26.07	Horizontal
9848.00	31.42	38.62	14.31	31.77	52.58	74.00	-21.42	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	31.86	31.90	8.70	32.15	40.31	54.00	-13.69	Vertical
7386.00	22.28	36.49	11.76	31.83	38.70	54.00	-15.30	Vertical
9848.00	23.68	38.62	14.31	31.77	44.84	54.00	-9.16	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	31.17	31.90	8.70	32.15	39.62	54.00	-14.38	Horizontal
7386.00	20.97	36.49	11.76	31.83	37.39	54.00	-16.61	Horizontal
9848.00	20.74	38.62	14.31	31.77	41.90	54.00	-12.10	Horizontal
12310.00	*	_				54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

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



Test mode:		802.11n(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	37.62	31.79	8.62	32.10	45.93	74.00	-28.07	Vertical
7236.00	32.53	36.19	11.68	31.97	48.43	74.00	-25.57	Vertical
9648.00	31.51	38.07	14.16	31.56	52.18	74.00	-21.82	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	36.71	31.79	8.62	32.10	45.02	74.00	-28.98	Horizontal
7236.00	32.49	36.19	11.68	31.97	48.39	74.00	-25.61	Horizontal
9648.00	31.18	38.07	14.16	31.56	51.85	74.00	-22.15	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	26.92	31.79	8.62	32.10	35.23	54.00	-18.77	Vertical
7236.00	21.46	36.19	11.68	31.97	37.36	54.00	-16.64	Vertical
9648.00	21.90	38.07	14.16	31.56	42.57	54.00	-11.43	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	26.39	31.79	8.62	32.10	34.70	54.00	-19.30	Horizontal
7236.00	21.12	36.19	11.68	31.97	37.02	54.00	-16.98	Horizontal
9648.00	20.97	38.07	14.16	31.56	41.64	54.00	-12.36	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11n(H	IT20)	-	Test o	channel:		Midd	le	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	37.14	31.85	8.66	32.1	2	45.53	74.0	00	-28.47	Vertical
7311.00	32.89	36.37	11.71	31.9	1	49.06	74.0	00	-24.94	Vertical
9748.00	32.74	38.27	14.25	31.5	6	53.70	74.0	00	-20.30	Vertical
12185.00	*						74.0	00		Vertical
14622.00	*						74.0	00		Vertical
17059.00	*						74.0	00		Vertical
4874.00	37.97	31.85	8.66	32.1	2	46.36	74.0	00	-27.64	Horizontal
7311.00	31.71	36.37	11.71	31.9)1	47.88	74.0	00	-26.12	Horizontal
9748.00	32.70	38.27	14.25	31.5	6	53.66	74.0	00	-20.34	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)	Prear Fact (dB	or	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	28.17	31.85	8.66	32.1	2	36.56	54.0	00	-17.44	Vertical
7311.00	21.26	36.37	11.71	31.9)1	37.43	54.0	00	-16.57	Vertical
9748.00	22.03	38.27	14.25	31.5	6	42.99	54.0	00	-11.01	Vertical
12185.00	*						54.0	00		Vertical
14622.00	*						54.0	00		Vertical
17059.00	*						54.0	00		Vertical
4874.00	28.19	31.85	8.66	32.1	2	36.58	54.0	00	-17.42	Horizontal
7311.00	20.83	36.37	11.71	31.9)1	37.00	54.0	00	-17.00	Horizontal
9748.00	22.45	38.27	14.25	31.5	6	43.41	54.0	00	-10.59	Horizontal
12185.00	*						54.0	00		Horizontal
14622.00	*						54.0	00		Horizontal
17059.00	*						54.0	00		Horizontal

Remark:

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

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



Test mode:		802.11n(H	IT20)	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	41.08	31.90	8.70	32.15	49.53	74.00	-24.47	Vertical
7386.00	32.56	36.49	11.76	31.83	48.98	74.00	-25.02	Vertical
9848.00	35.31	38.62	14.31	31.77	56.47	74.00	-17.53	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	40.97	31.90	8.70	32.15	49.42	74.00	-24.58	Horizontal
7386.00	31.76	36.49	11.76	31.83	48.18	74.00	-25.82	Horizontal
9848.00	31.61	38.62	14.31	31.77	52.77	74.00	-21.23	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	32.29	31.90	8.70	32.15	40.74	54.00	-13.26	Vertical
7386.00	22.56	36.49	11.76	31.83	38.98	54.00	-15.02	Vertical
9848.00	23.88	38.62	14.31	31.77	45.04	54.00	-8.96	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	31.54	31.90	8.70	32.15	39.99	54.00	-14.01	Horizontal
7386.00	21.22	36.49	11.76	31.83	37.64	54.00	-16.36	Horizontal
9848.00	20.93	38.62	14.31	31.77	42.09	54.00	-11.91	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

Shenzhen, China 518102

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

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



Test mode:		802.11n(HT40)			Test channel:			Lowest		
Peak value:		1								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	•	Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4844.00	36.80	31.81	8.63	32.11		45.13	74.00		-28.87	Vertical
7266.00	32.01	36.28	11.69	31.94		48.04	74.00		-25.96	Vertical
9688.00	31.14	38.13	14.21	31.52		51.96	74.00		-22.04	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	36.02	31.81	8.63	32.11		44.35	74.	00	-29.65	Horizontal
7266.00	32.04	36.28	11.69	31.94		48.07	74.	00	-25.93	Horizontal
9688.00	30.84	38.13	14.21	31.52		51.66	74.	00	-22.34	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	26.16	31.81	8.63	32.11	34.49	54.00	-19.51	Vertical
7266.00	20.96	36.28	11.69	31.94	36.99	54.00	-17.01	Vertical
9688.00	21.55	38.13	14.21	31.52	42.37	54.00	-11.63	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	25.74	31.81	8.63	32.11	34.07	54.00	-19.93	Horizontal
7266.00	20.68	36.28	11.69	31.94	36.71	54.00	-17.29	Horizontal
9688.00	20.64	38.13	14.21	31.52	41.46	54.00	-12.54	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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



Test mode:		802.11n(H	IT40)	Test channel:		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	36.46	31.85	8.66	32.12		44.85	74.	00	-29.15	Vertical
7311.00	32.46	36.37	11.71	31.91		48.63	74.	00	-25.37	Vertical
9748.00	32.43	38.27	14.25	31.56		53.39	74.00		-20.61	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	37.39	31.85	8.66	32	2.12	45.78	74.00		-28.22	Horizontal
7311.00	31.34	36.37	11.71	31	.91	47.51	74.00		-26.49	Horizontal
9748.00	32.42	38.27	14.25	31.56		53.38	74.00		-20.62	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)	Fa	eamp ictor dB)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4874.00	27.54	31.85	8.66	32	2.12	35.93	54.	00	-18.07	Vertical
7311.00	20.84	36.37	11.71	31	.91	37.01	54.	00	-16.99	Vertical
9748.00	21.73	38.27	14.25	31	.56	42.69	54.	00	-11.31	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	27.66	31.85	8.66	32	2.12	36.05	54.	00	-17.95	Horizontal
7311.00	20.47	36.37	11.71	31	.91	36.64	54.	00	-17.36	Horizontal
9748.00	22.18	38.27	14.25	31	.56	43.14	54.	00	-10.86	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*						54.	00		Horizontal

Remark:

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



Test mode:		802.11n(H	IT40)	Test	channel:	Highest			
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4904.00	39.91	31.88	8.68	32.13	48.34	74.00	-25.66	Vertical	
7356.00	31.82	36.45	11.75	31.86	48.16	74.00	-25.84	Vertical	
9808.00	34.78	38.43	14.29	31.68	55.82	74.00	-18.18	Vertical	
12310.00	*					74.00		Vertical	
14772.00	*					74.00		Vertical	
17234.00	*					74.00		Vertical	
4904.00	39.99	31.88	8.68	32.13	48.42	74.00	-25.58	Horizontal	
7356.00	31.12	36.45	11.75	31.86	47.46	74.00	-26.54	Horizontal	
9808.00	31.12	38.43	14.29	31.68	52.16	74.00	-21.84	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	31.21	31.88	8.68	32.13	39.64	54.00	-14.36	Vertical	
7356.00	21.85	36.45	11.75	31.86	38.19	54.00	-15.81	Vertical	
9808.00	23.37	38.43	14.29	31.68	44.41	54.00	-9.59	Vertical	
12310.00	*					54.00		Vertical	
14772.00	*					54.00		Vertical	
17234.00	*					54.00		Vertical	
4904.00	30.61	31.88	8.68	32.13	39.04	54.00	-14.96	Horizontal	
7356.00	20.59	36.45	11.75	31.86	36.93	54.00	-17.07	Horizontal	
9808.00	20.46	38.43	14.29	31.68	41.50	54.00	-12.50	Horizontal	
12310.00	*					54.00		Horizontal	
14772.00	*	_				54.00		Horizontal	
17234.00	*					54.00		Horizontal	

Remark:

Shenzhen, China 518102

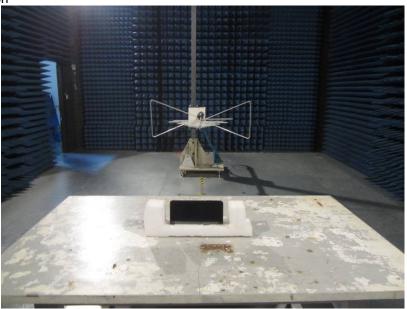
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

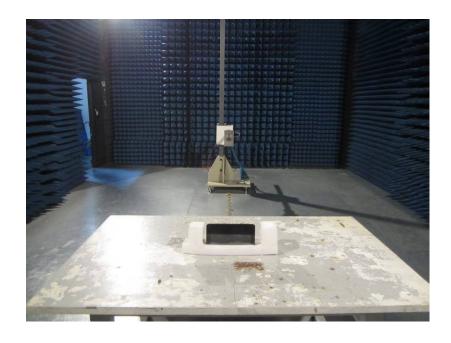
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







Conducted Emission





9 EUT Constructional Details

















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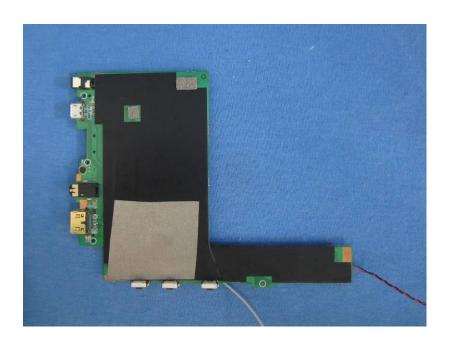


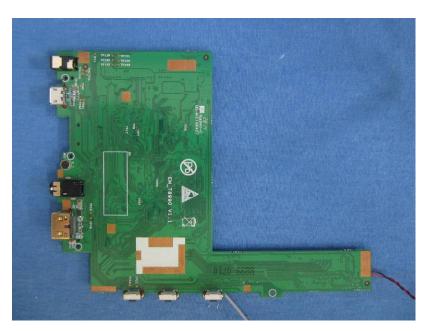


















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