

Global United Technology Services Co., Ltd.

Report No.: GTSE15070124401

FCC Report (WIFI)

Applicant: Kobian Canada Inc.,

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

L3R2M8

Equipment Under Test (EUT)

Product Name: TABLET PC

Model No.: **7DTB41**

FCC ID: YH5-7DTB41

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

Date of sample receipt: July 09, 2015

Date of Test: July 09-16, 2015

Date of report issued: July 16, 2015

Test Result: PASS *

Authorized Signature:

Robinson **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

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



2 **Version**

Version No.	Date	Description
00	July 16, 2015	Original

Tested By:	Sam. 900	Date:	July 16, 2015
	Project Engineer		
Check By:	hank. yan	Date:	July 16, 2015

Reviewer

No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



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4 Test Summary

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

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

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

Remark: Test according to ANSI C63.4:2014 and ANSI C63.10:2013



5 General Information

5.1 Client Information

Applicant:	Kobian Canada Inc.,
Address of Applicant:	560 Denison Street, Unit#5, Markham Ontario, Canada, L3R2M8
Manufacturer:	Kobian Canada Inc.,
Address of Manufacturer:	560 Denison Street, Unit#5, Markham Ontario, Canada, L3R2M8

5.2 General Description of EUT

Product Name:	TABLET PC	
Model No.:	7DTB41	
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:	Integrity antenna	
Antenna gain:	2dBi (declare by Applicant)	
Power supply:	AC/DC Adaptor:	
	Model No.:SUN-0500150	
	Input:100-240V~50/60Hz 0.3A	
	Output:5V == 1.5A	
	Or	
	DC 3.7 V Lithium battery 2500mAh	



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

5.3 Test mode

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

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

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

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

5.4 Description of Support Units

None.



5.5 Test Facility

• FCC —Registration No.: 600491

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

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

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

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

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

Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102

Tel: 0755-27798480 Fax: 0755-27798960



6 Test Instruments list

Radiated Emission:							
Item	em Test Equipment Manufacturer		Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 27 2015	Mar. 26 2016	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Dec. 4 2014	Dec. 3 2015	
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jun. 30 2015	Jun. 29 2016	
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Jun. 30 2015	Jun. 29 2016	
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	Jun. 26 2015	Jun. 25 2016	
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016	
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016	
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016	
11	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016	
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016	
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jun. 30 2015	Jun. 29 2016	
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jun. 30 2015	Jun. 29 2016	
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 26 2015	June 25 2016	
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016	
17	Power Meter	Anritsu	ML2495A	GTS540	Jun. 30 2015	Jun. 29 2016	
18	Power Sensor	Anritsu	MA2411B	GTS541	Jun. 30 2015	Jun. 29 2016	

Con	Conducted Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 07 2013	Sep. 06 2015		
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jun. 30 2015	Jun. 29 2016		
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jun. 30 2015	Jun. 29 2016		
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jun. 30 2015	Jun. 29 2016		
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jun. 30 2015	Jun. 29 2016		
6	Coaxial Cable	GTS	N/A	GTS227	Jun. 30 2015	Jun. 29 2016		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		



7 Test results and Measurement Data

7.1 Antenna requirement

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

15.203 requirement:

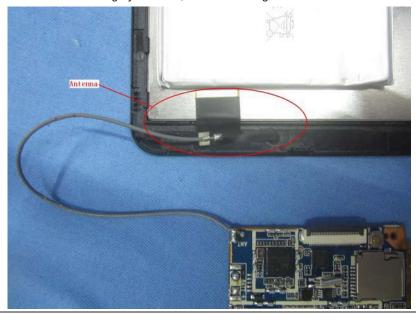
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

EUT Antenna:

The antenna is Integrity antenna, the best case gain of the antenna is 2dBi





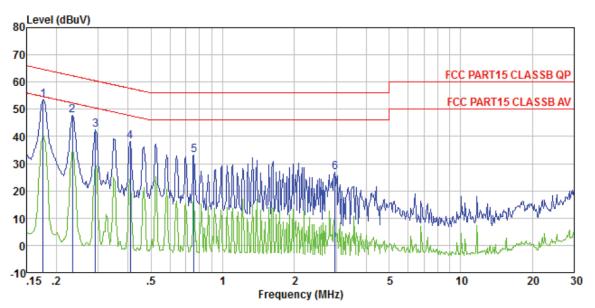
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013					
	150KHz to 30MHz					
Test Frequency Range:						
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv					
Limit:	Frequency range (MHz)	Limit (c				
	, , ,	Quasi-peak 66 to 56*	Average 56 to 46*			
	0.15-0.5 0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithm					
Test setup:	Reference Plane	•				
	AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN LISN Filter AC power EMI Receiver Receiver					
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 C63.10:2013 on conducted measurement. 					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					



Measurement data

Line:



Site : Shielded room

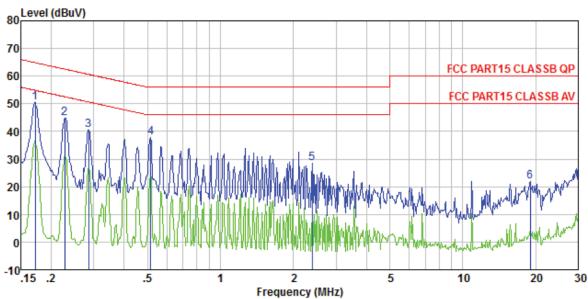
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 1244RF
Test mode : WiFI mode
Test Engineer: Song

	Freq		Cable Loss 1					Remark
	MHz	dBuV	dB ·	dB	dBu₹	dBu₹	dB	
1 2 3 4 5	0. 234 0. 292 0. 408 0. 759	47.61 42.16 37.89 33.06	0.13 0.12 0.10 0.11 0.13 0.15	0.12 0.11 0.11 0.14	42.37 38.11 33.33	62.30 60.46 57.68 56.00	-14.45 -18.09 -19.57 -22.67	QP QP QP QP



Neutral:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 1244RF Test mode : WiFI mode

Test Engineer: Song

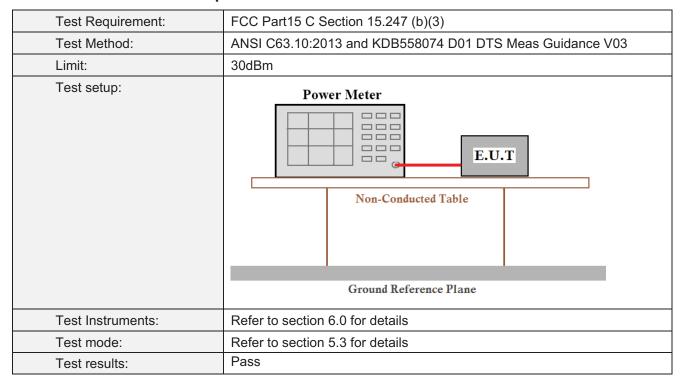
CSI	DIISTITCUI.	Read	Cabla	LISN		Limit	0ver	
	Freq	Level						Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1 2 3 4 5	0.172 0.228 0.286 0.516 2.396	28.28	0.12 0.12 0.10 0.11 0.15	0.06 0.06 0.10	50. 44 44. 94 40. 59 37. 90 28. 53	62.52 60.63 56.00 56.00	-20.04 -18.10 -27.47	QP QP QP QP
6	19.021	21.25	0.22	0.47	21.94	60.00	-38.06	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.



7.3 Conducted Peak Output Power



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	7.04	6.32	6.14	5.69		
Middle	7.02	6.56	6.42	5.70	30.00	Pass
Highest	6.86	6.79	6.46	5.81		



7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)			
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03			
Limit:	>500KHz			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			

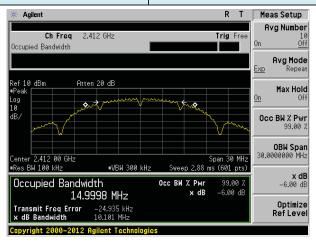
Measurement Data

Test CH		Channel Ban	Limit(KHz)	Result		
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	LIIIII((KI IZ)	Result
Lowest	10.101	16.579	17.864	36.514		
Middle	10.092	16.585	17.851	36.523	>500	Pass
Highest	10.099	16.588	17.866	36.534		

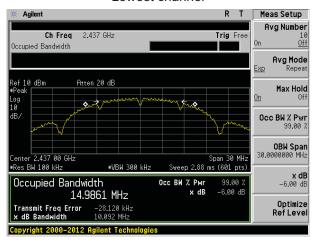
Test plot as follows:



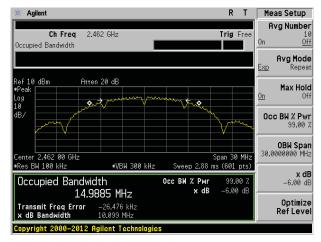
Test mode: 802.11b



Lowest channel



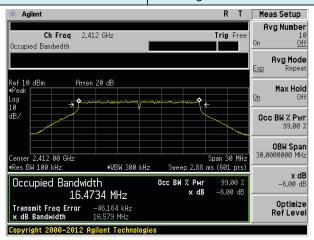
Middle channel



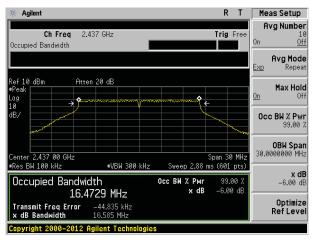
Highest channel



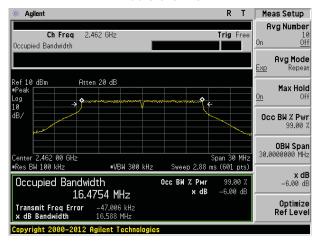
Test mode: 802.11g



Lowest channel



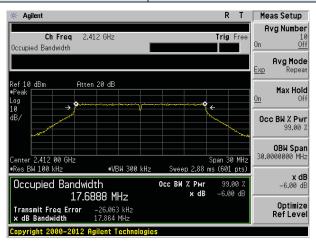
Middle channel



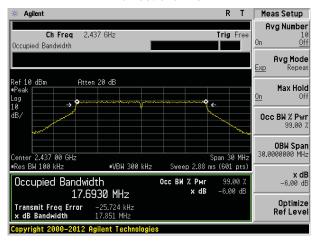
Highest channel



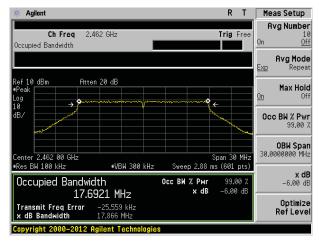
Test mode: 802.11n(HT20)



Lowest channel



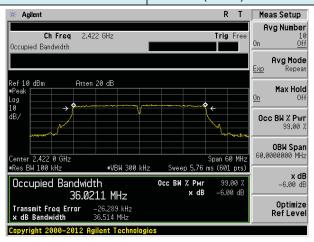
Middle channel



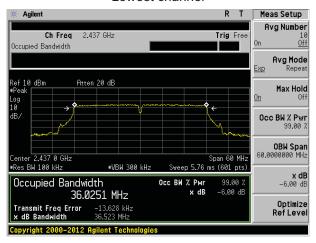
Highest channel



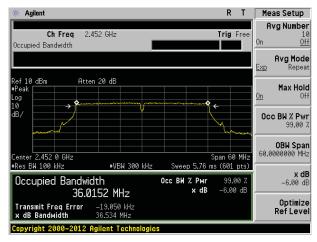
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)		
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03		
Limit:	8dBm		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

Measurement Data

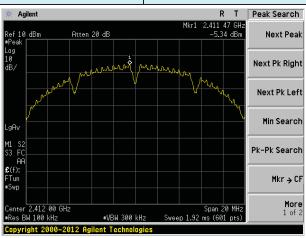
Test CH		Power Spectra	Limit(dBm/3kHz)	Result			
Test Off	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	Limit(dBin/3Ki12)	Result	
Lowest	-5.34	-9.87	-11.33	-14.88			
Middle	-5.40	-9.76	-11.02	-14.80	8.00	Pass	
Highest	-5.57	-9.61	-10.98	-14.93			

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

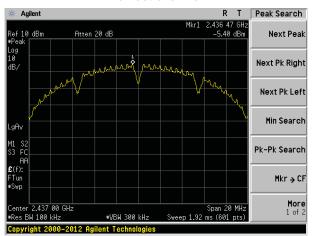


Test plot as follows:

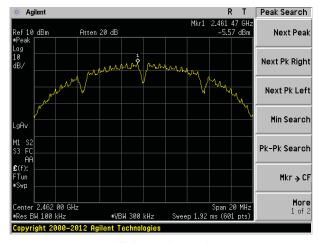
Test mode: 802.11b



Lowest channel



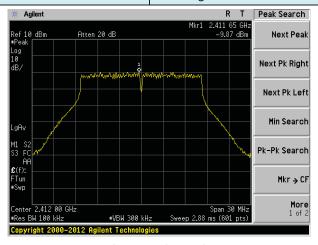
Middle channel



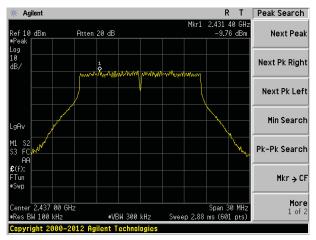
Highest channel



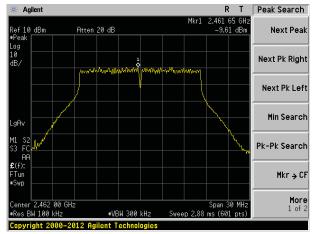
Test mode: 802.11g



Lowest channel



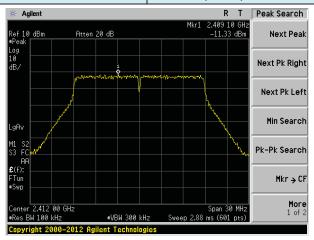
Middle channel



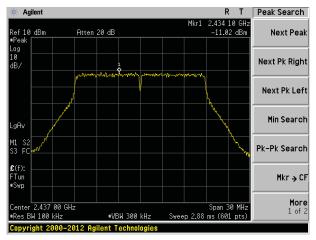
Highest channel



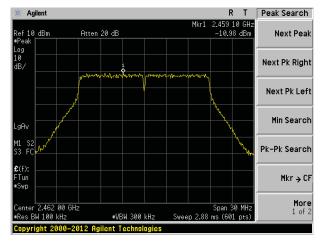
Test mode: 802.11n(HT20)



Lowest channel



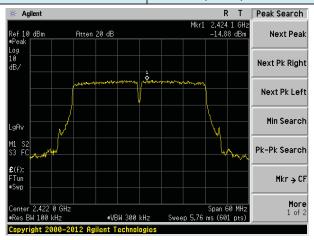
Middle channel



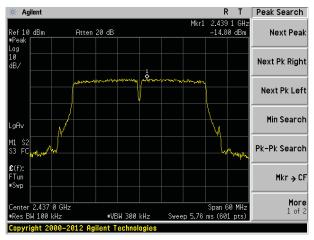
Highest channel



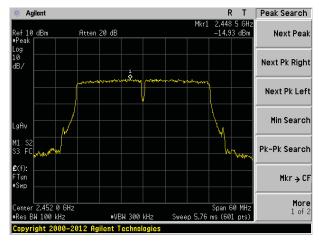
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.6 Band edges

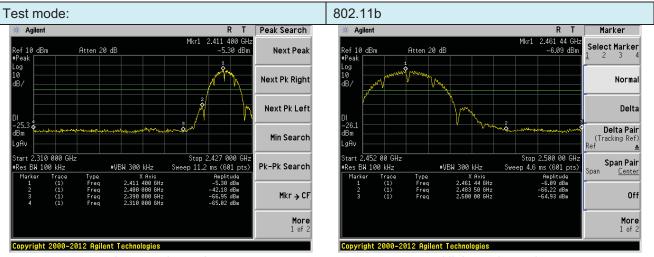
7.6.1 Conducted Emission Method

Toot Dogwinement	TOO Double O Continue 45 047 (4)				
Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				



Test plot as follows:

Test mode:



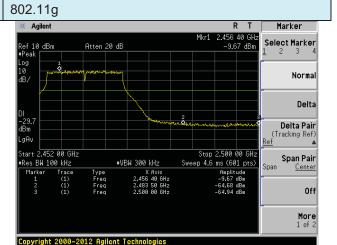
Lowest channel

Highest channel

Marker Agilent R T 2.310 000 GH Select Marker Normal Delta

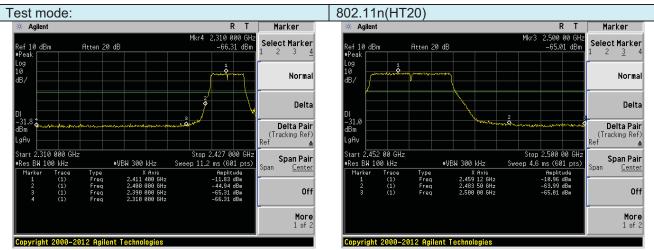
Stop 2.427 000 GH: Sweep 11.2 ms (601 pts) .310 000 GHz Off More 1 of 2

Lowest channel



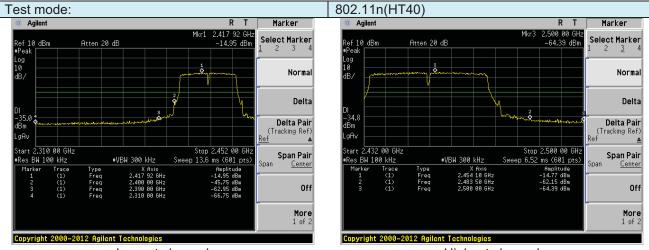
Highest channel





Lowest channel

Highest channel



Lowest channel

Highest channel



7.6.2 Radiated Emission Method

Test site: Measurement Distance: 3m Receiver setup: Peak 1MHz 3MHz Peak Above 1GHz RMS 1MHz 3MHz Average Limit: Frequency Limit (dBuV/m @3m) Value Frequency Limit (dBuV/m @3m) Value Above 1GHz RMS 1MHz 3MHz Average Frequency Limit (dBuV/m @3m) Value Above 1GHz Frequency Limit (dBuV/m @3m) Value Above 1GHz Frequency Limit (dBuV/m @3m) Value Above 1GHz Frequency Limit (dBuV/m @3m) Value Test setup: Test setup: Test setup: 1. The EUT was placed on the top of a rotating table 1.5m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make it measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positionin And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.	Test Requirement:	FCC Part15 C S	Section 15.20	9 and 15.205				
Test site: Measurement Distance: 3m Receiver setup: Peak 1MHz 3MHz Peak Above 1GHz RMS 1MHz 3MHz Average Limit: Frequency Limit (dBuV/m @3m) Value Frequency Limit (dBuV/m @3m) Value Above 1GHz RMS 1MHz 3MHz Average Frequency Limit (dBuV/m @3m) Value Above 1GHz Frequency Limit (dBuV/m @3m) Value Above 1GHz Frequency Limit (dBuV/m @3m) Value Above 1GHz Frequency Limit (dBuV/m @3m) Value Test setup: Test setup: Test setup: 1. The EUT was placed on the top of a rotating table 1.5m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make it measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positionin And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.	Test Method:	ANSI C63.10:2013						
Test site: Measurement Distance: 3m	Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to						
Receiver setup: Frequency		2500MHz) data was showed.						
Limit: Frequency	Test site:	Measurement D	istance: 3m					
Limit: Frequency Above 1GHz Frequency	Receiver setup:	Frequency	Detector	RBW	VBW	Value		
Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst cas and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positionin And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report. Refer to section 6.0 for details Test mode: Refer to section 6.3 for details			Peak	1MHz	3MHz	Peak		
Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make it measurement. 4. For each suspected emission, the EUT was arranged to its worst cas and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report. Refer to section 5.3 for details Test mode: Refer to section 5.3 for details		Above 1GHz	RMS	1MHz	3MHz	Average		
Test setup: 1. The EUT was placed on the top of a rotating table 1.5m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst cas and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report. Refer to section 6.0 for details Test mode: Refer to section 5.3 for details	Limit:	Freque	ency	Limit (dBuV/	/m @3m)	Value		
Test setup: 1. The EUT was placed on the top of a rotating table 1.5m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst cas and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report. Refer to section 5.3 for details Test mode: Refer to section 5.3 for details			•	,		Average		
Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positionin And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report. Refer to section 6.0 for details Test mode: Refer to section 5.3 for details		Above	GHZ	74.0	0	Peak		
ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst cast and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positionin 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 Refer to section 5.3 for details		Horn Antenna Spectrum Analyzer Turn Table 1.5m						
Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.3 for details	rest Procedure.	 The EUT was placed on the top of a rotating table 1.5m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis positioning. 						
Test mode: Refer to section 5.3 for details	Test Instruments:				л с.			
Test results: Pass			J.J IUI UEIAII	J				

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Measurement data:

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

Test mode:	802.11b	Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	51.36	27.59	5.38	34.01	50.32	74.00	-23.68	Horizontal
2400.00	60.28	27.58	5.39	34.01	59.24	74.00	-14.76	Horizontal
2390.00	53.02	27.59	5.38	34.01	51.98	74.00	-22.02	Vertical
2400.00	62.00	27.58	5.39	34.01	60.96	74.00	-13.04	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	38.21	27.59	5.38	34.01	37.17	54.00	-16.83	Horizontal
2400.00	46.47	27.58	5.39	34.01	45.43	54.00	-8.57	Horizontal
2390.00	40.00	27.59	5.38	34.01	38.96	54.00	-15.04	Vertical
2400.00	47.57	27.58	5.39	34.01	46.53	54.00	-7.47	Vertical

Test mode: 802.11b	Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	51.90	27.53	5.47	33.92	50.98	74.00	-23.02	Horizontal
2500.00	47.82	27.55	5.49	29.93	50.93	74.00	-23.07	Horizontal
2483.50	54.10	27.53	5.47	33.92	53.18	74.00	-20.82	Vertical
2500.00	50.27	27.55	5.49	29.93	53.38	74.00	-20.62	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	38.53	27.53	5.47	33.92	37.61	54.00	-16.39	Horizontal
2500.00	34.68	27.55	5.49	29.93	37.79	54.00	-16.21	Horizontal
2483.50	40.45	27.53	5.47	33.92	39.53	54.00	-14.47	Vertical
2500.00	36.55	27.55	5.49	29.93	39.66	54.00	-14.34	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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Report No.: GTSE15070124401

Test mode:		802.1	1g	Test channel:			Lowest			
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r	Level (dBuV/m)	Limit Line (dBuV/m)	I Limit	Polarization	
2390.00	50.23	27.59	5.38	34.01	1	49.19	74.00	-24.81	Horizontal	
2400.00	58.77	27.58	5.39	34.01	1	57.73	74.00	-16.27	Horizontal	
2390.00	51.81	27.59	5.38	34.01	1	50.77	74.00	-23.23	Vertical	
2400.00	60.18	27.58	5.39	34.01	1	59.14	74.00	-14.86	Vertical	
Average va	lue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization	
2390.00	37.40	27.59	5.38	34.01	1	36.36	54.00	-17.64	Horizontal	
2400.00	45.54	27.58	5.39	34.01	1	44.50	54.00	-9.50	Horizontal	
2390.00	39.11	27.59	5.38	34.01	1	38.07	54.00	-15.93	Vertical	
2400.00	46.56	27.58	5.39	34.01	1	45.52	54.00	-8.48	Vertical	
Test mode:		802.1	1g	Test channel:				Highest		
Peak value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r	Level (dBuV/m)	Limit Line (dBuV/m)	I Limit	Polarization	
2483.50	50.28	27.53	5.47	33.92	2	49.36	74.00	-24.64	Horizontal	
2500.00	46.56	27.55	5.49	29.93	3	49.67	74.00	-24.33	Horizontal	
2483.50	52.25	27.53	5.47	33.92	2	51.33	74.00	-22.67	Vertical	
2500.00	48.80	27.55	5.49	29.93	3	51.91	74.00	-22.09	Vertical	
Average va	lue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r	Level (dBuV/m)	Limit Line (dBuV/m)	I I Imit	Polarization	
2483.50	37.55	27.53	5.47	33.92	2	36.63	54.00	-17.37	Horizontal	
2500.00	33.92	27.55	5.49	29.93	3	37.03	54.00	-16.97	Horizontal	
2483.50	39.37	27.53	5.47	33.92	2	38.45	54.00	-15.55	Vertical	
2500.00	35.75	27.55	5.49	29.93	3	38.86	54.00	-15.14	Vertical	
Remark:										

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

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



Report No.: GTSE15070124401

Test mode:		802.1	1n(HT20)	Test channel:			Lowest			
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	I Limit	Polarization	
2390.00	50.33	27.59	5.38	34.0	1	49.29	74.00	-24.71	Horizontal	
2400.00	58.90	27.58	5.39	34.0	1	57.86	74.00	-16.14	Horizontal	
2390.00	51.92	27.59	5.38	34.0	1	50.88	74.00	-23.12	Vertical	
2400.00	60.34	27.58	5.39	34.0	1	59.30	74.00	-14.70	Vertical	
Average va	lue:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	I Limit	Polarization	
2390.00	37.47	27.59	5.38	34.0	1	36.43	54.00	-17.57	Horizontal	
2400.00	45.62	27.58	5.39	34.0	1	44.58	54.00	-9.42	Horizontal	
2390.00	39.19	27.59	5.38	34.0	1	38.15	54.00	-15.85	Vertical	
2400.00	46.65	27.58	5.39	34.01		45.61	54.00	-8.39	Vertical	
Test mode:		802.1	1n(HT20)	n(HT20) Test channel:				Highest		
Peak value:	:			T				1		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	I Limit	Polarization	
2483.50	50.42	27.53	5.47	33.9	2	49.50	74.00	-24.50	Horizontal	
2500.00	46.67	27.55	5.49	29.9	3	49.78	74.00	-24.22	Horizontal	
2483.50	52.41	27.53	5.47	33.9	2	51.49	74.00	-22.51	Vertical	
2500.00	48.93	27.55	5.49	29.9	3	52.04	74.00	-21.96	Vertical	
Average va	lue:	r	r	1		r				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)	I I Imit	Polarization	
2483.50	37.64	27.53	5.47	33.9	2	36.72	54.00	-17.28	Horizontal	
2500.00	33.99	27.55	5.49	29.9	3	37.10	54.00	-16.90	Horizontal	
-								1	1	
2483.50	39.47	27.53	5.47	33.9	2	38.55	54.00	-15.45	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.



Report No.: GTSE15070124401

Test mode:		80:	2.11n(HT40)	Test channel:				Lowest		
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenn Factor (dB/m)	Loss	Prear Fact (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	I Limit	Polarization	
2390.00	49.73	27.59	5.38	34.0	1	48.69	74.00	-25.31	Horizontal	
2400.00	58.10	27.58	5.39	34.0	1	57.06	74.00	-16.94	Horizontal	
2390.00	51.28	27.59	5.38	34.0	1	50.24	74.00	-23.76	Vertical	
2400.00	59.38	27.58	5.39	34.0	1	58.34	74.00	-15.66	Vertical	
Average va	lue:									
Frequency (MHz)	Read Level (dBuV)	Antenn Factor (dB/m)	Loss	Prear Fact (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization	
2390.00	37.05	27.59	5.38	34.0	1	36.01	54.00	-17.99	Horizontal	
2400.00	45.13	27.58	5.39	34.0	1	44.09	54.00	-9.91	Horizontal	
2390.00	38.71	27.59	5.38	34.0	1	37.67	54.00	-16.33	Vertical	
2400.00	46.11	27.58	5.39	9 34.01		45.07	54.00	-8.93	Vertical	
					1					
Test mode:		80	2.11n(HT40)		Tes	st channel:		Highest		
Peak value:		1		1		1	T	1		
Frequency (MHz)	Read Level (dBuV)	Antenn Factor (dB/m)	Loss	Prear Fact (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization	
2483.50	49.56	27.53	5.47	33.9	2	48.64	74.00	-25.36	Horizontal	
2500.00	46.01	27.55	5.49	29.9	3	49.12	74.00	-24.88	Horizontal	
2483.50	51.43	27.53	5.47	33.9	2	50.51	74.00	-23.49	Vertical	
2500.00	48.15	27.55	5.49	29.9	3	51.26	74.00	-22.74	Vertical	
Average va	lue:	1				1			,	
Frequency (MHz)	Read Level (dBuV)	Antenn Factor (dB/m)	Loss	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)	I I Imit	Polarization	
2483.50	37.12	27.53	5.47	33.9	2	36.20	54.00	-17.80	Horizontal	
2500.00	33.59	27.55	5.49	29.9	3	36.70	54.00	-17.30	Horizontal	
2483.50	38.89	27.53	5.47	33.9		37.97	54.00	-16.03	Vertical	
2500.00	35.39	27.55	5.49	29.9	3	38.50	54.00	-15.50	Vertical	

Remark: 1.

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

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

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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 C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					

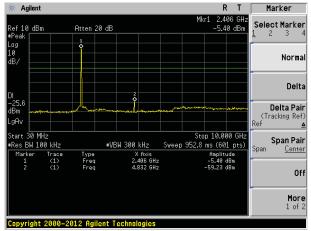


Test plot as follows:

Test mode:

802.11b

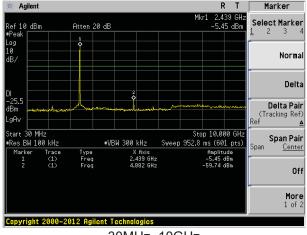
Lowest channel



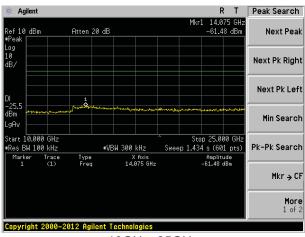
30MHz~10GHz

10GHz~25GHz

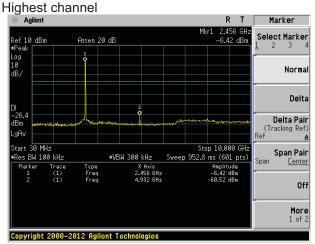
Middle channel



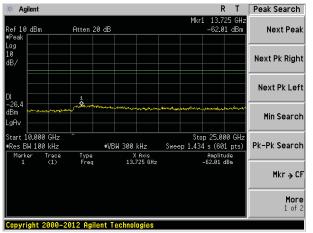
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz

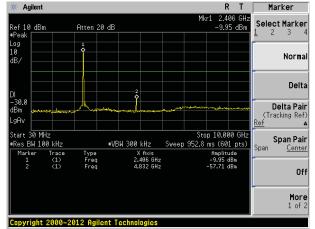
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Test mode:

802.11g

Lowest channel

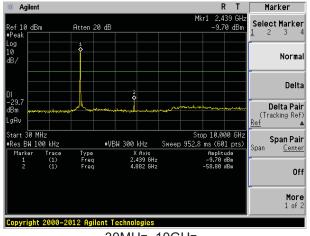


30MHz~10GHz

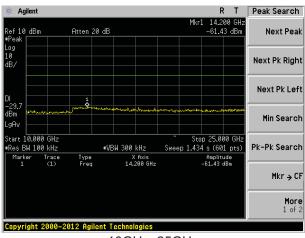
Agilent ## Agilent

10GHz~25GHz

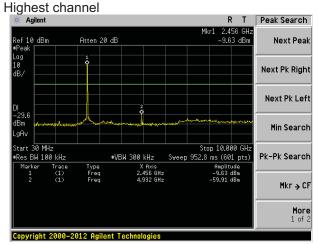
Middle channel



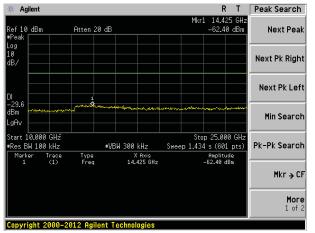
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz



R T Peak Search

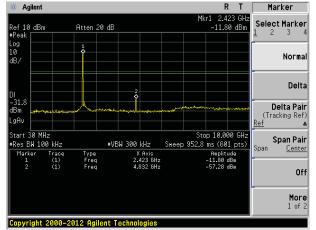
Next Peak

Test mode:

802.11n(HT20)

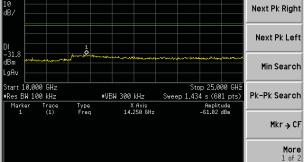
Agilent

Lowest channel



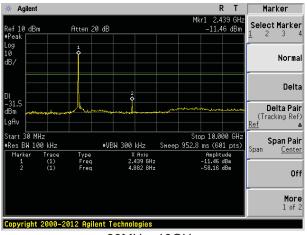
30MHz~10GHz

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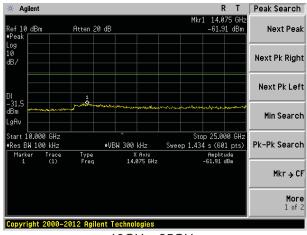


10GHz~25GHz

Middle channel

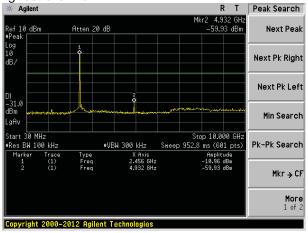


30MHz~10GHz

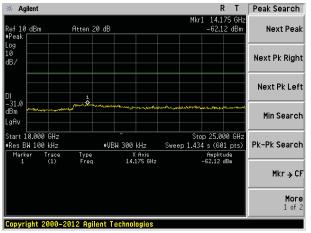


10GHz~25GHz





30MHz~10GHz



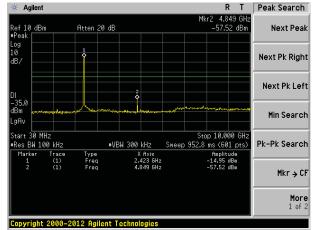
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

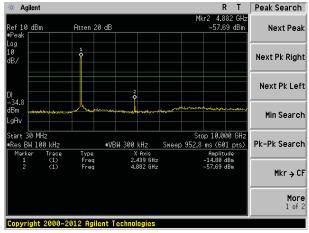


30MHz~10GHz

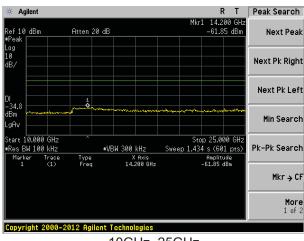
Agilent Peak Search 13.875 GH -61.08 dBm Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH: Sweep 1.434 s (601 pts) #VBW 300 kHz Pk-Pk Search ■Res BW 100 kHz Type Freq X Axis 13.875 GHz Amplitude -61.08 dBm Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

Middle channel

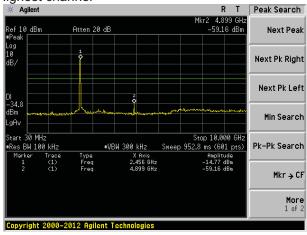


30MHz~10GHz

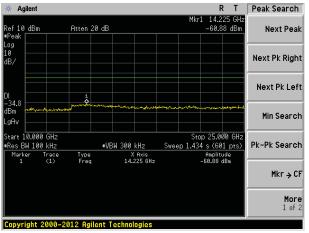


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Se	ection 15.209						
Test Method:	ANSI C63.10:201	13						
Test Frequency Range:	30MHz to 25GHz							
Test site:	Measurement Dis	stance: 3m						
Receiver setup:	Frequency	Detector	RBW	VBW	Value			
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak			
	Above 1GHz	Peak	1MHz	3MHz	Peak			
	Above 1GHZ	RMS	1MHz	3MHz	Average			
Limit:	Frequen	ıcy I	_imit (dBuV/	/m @3m)	Value			
	30MHz-88	MHz	40.0	0	Quasi-peak			
	88MHz-216	6MHz	43.5	0	Quasi-peak			
	216MHz-96	0MHz	46.0	0	Quasi-peak			
	960MHz-1	GHz	54.0	0	Quasi-peak			
	Above 10	DU-	54.0	0	Average			
	Above 10	3112	74.0	0	Peak			
	EUT 3m	4m		_ Search Antenna				
	Tum 0.8m A O.8m			RF Test Receiver				
	Table 0.8m		-\P	Receiver				

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Test Procedure:	 The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	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
33.80	38.94	14.31	0.59	30.08	23.76	40.00	-16.24	Vertical
85.00	47.10	12.31	1.07	29.77	30.71	40.00	-9.29	Vertical
180.02	47.27	11.68	1.74	29.27	31.42	43.50	-12.08	Vertical
429.52	38.31	17.51	2.99	29.44	29.37	46.00	-16.63	Vertical
560.69	35.73	19.77	3.56	29.30	29.76	46.00	-16.24	Vertical
787.85	25.28	21.92	4.41	29.20	22.41	46.00	-23.59	Vertical
75.98	34.63	9.97	0.99	29.82	15.77	40.00	-24.23	Horizontal
119.44	42.89	12.58	1.36	29.57	27.26	43.50	-16.24	Horizontal
191.75	45.05	12.56	1.80	29.23	30.18	43.50	-13.32	Horizontal
294.11	37.69	14.95	2.33	29.97	25.00	46.00	-21.00	Horizontal
432.55	29.05	17.53	3.01	29.43	20.16	46.00	-25.84	Horizontal
562.66	40.12	19.83	3.57	29.30	34.22	46.00	-11.78	Horizontal



Above 1GHz

Test mode:		802.11b		Test	channel:	Lowe	est	
Peak value:						<u>'</u>		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	39.85	31.79	8.62	32.10	48.16	74.00	-25.84	Vertical
7236.00	33.94	36.19	11.68	31.97	49.84	74.00	-24.16	Vertical
9648.00	32.51	38.07	14.16	31.56	53.18	74.00	-20.82	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.59	31.79	8.62	32.10	46.90	74.00	-27.10	Horizontal
7236.00	33.72	36.19	11.68	31.97	49.62	74.00	-24.38	Horizontal
9648.00	32.11	38.07	14.16	31.56	52.78	74.00	-21.22	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	28.97	31.79	8.62	32.10	37.28	54.00	-16.72	Vertical
7236.00	22.81	36.19	11.68	31.97	38.71	54.00	-15.29	Vertical
9648.00	22.87	38.07	14.16	31.56	43.54	54.00	-10.46	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.15	31.79	8.62	32.10	36.46	54.00	-17.54	Horizontal
7236.00	22.31	36.19	11.68	31.97	38.21	54.00	-15.79	Horizontal
9648.00	21.86	38.07	14.16	31.56	42.53	54.00	-11.47	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

Project No.: GTSE150701244RF

^{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	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	38.98	31.85	8.66	32.12	47.37	74.00	-26.63	Vertical
7311.00	34.06	36.37	11.71	31.91	50.23	74.00	-23.77	Vertical
9748.00	33.57	38.27	14.25	31.56	54.53	74.00	-19.47	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.52	31.85	8.66	32.12	47.91	74.00	-26.09	Horizontal
7311.00	32.73	36.37	11.71	31.91	48.90	74.00	-25.10	Horizontal
9748.00	33.47	38.27	14.25	31.56	54.43	74.00	-19.57	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.86	31.85	8.66	32.12	38.25	54.00	-15.75	Vertical
7311.00	22.38	36.37	11.71	31.91	38.55	54.00	-15.45	Vertical
9748.00	22.83	38.27	14.25	31.56	43.79	54.00	-10.21	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.65	31.85	8.66	32.12	38.04	54.00	-15.96	Horizontal
7311.00	21.82	36.37	11.71	31.91	37.99	54.00	-16.01	Horizontal
9748.00	23.19	38.27	14.25	31.56	44.15	54.00	-9.85	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11b		Test	channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	44.24	31.90	8.70	32.15	52.69	74.00	-21.31	Vertical
7386.00	34.56	36.49	11.76	31.83	50.98	74.00	-23.02	Vertical
9848.00	36.74	38.62	14.31	31.77	57.90	74.00	-16.10	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.65	31.90	8.70	32.15	52.10	74.00	-21.90	Horizontal
7386.00	33.51	36.49	11.76	31.83	49.93	74.00	-24.07	Horizontal
9848.00	32.93	38.62	14.31	31.77	54.09	74.00	-19.91	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val			,					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	35.21	31.90	8.70	32.15	43.66	54.00	-10.34	Vertical
7386.00	24.49	36.49	11.76	31.83	40.91	54.00	-13.09	Vertical
9848.00	25.26	38.62	14.31	31.77	46.42	54.00	-7.58	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.05	31.90	8.70	32.15	42.50	54.00	-11.50	Horizontal
7386.00	22.91	36.49	11.76	31.83	39.33	54.00	-14.67	Horizontal
9848.00	22.20	38.62	14.31	31.77	43.36	54.00	-10.64	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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

^{2. &}quot; \ast ", 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	39.23	31.79	8.62	32.10	47.54	74.00	-26.46	Vertical
7236.00	33.55	36.19	11.68	31.97	49.45	74.00	-24.55	Vertical
9648.00	32.23	38.07	14.16	31.56	52.90	74.00	-21.10	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.07	31.79	8.62	32.10	46.38	74.00	-27.62	Horizontal
7236.00	33.38	36.19	11.68	31.97	49.28	74.00	-24.72	Horizontal
9648.00	31.85	38.07	14.16	31.56	52.52	74.00	-21.48	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	28.40	31.79	8.62	32.10	36.71	54.00	-17.29	Vertical
7236.00	22.44	36.19	11.68	31.97	38.34	54.00	-15.66	Vertical
9648.00	22.60	38.07	14.16	31.56	43.27	54.00	-10.73	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	27.66	31.79	8.62	32.10	35.97	54.00	-18.03	Horizontal
7236.00	21.98	36.19	11.68	31.97	37.88	54.00	-16.12	Horizontal
9648.00	21.61	38.07	14.16	31.56	42.28	54.00	-11.72	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. " \ast ", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.47	31.85	8.66	32.12	46.86	74.00	-27.14	Vertical
7311.00	33.73	36.37	11.71	31.91	49.90	74.00	-24.10	Vertical
9748.00	33.34	38.27	14.25	31.56	54.30	74.00	-19.70	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.09	31.85	8.66	32.12	47.48	74.00	-26.52	Horizontal
7311.00	32.45	36.37	11.71	31.91	48.62	74.00	-25.38	Horizontal
9748.00	33.26	38.27	14.25	31.56	54.22	74.00	-19.78	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.39	31.85	8.66	32.12	37.78	54.00	-16.22	Vertical
7311.00	22.07	36.37	11.71	31.91	38.24	54.00	-15.76	Vertical
9748.00	22.60	38.27	14.25	31.56	43.56	54.00	-10.44	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.25	31.85	8.66	32.12	37.64	54.00	-16.36	Horizontal
7311.00	21.55	36.37	11.71	31.91	37.72	54.00	-16.28	Horizontal
9748.00	22.98	38.27	14.25	31.56	43.94	54.00	-10.06	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

^{2. &}quot; \ast ", 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	43.37	31.90	8.70	32.15	51.82	74.00	-22.18	Vertical
7386.00	34.01	36.49	11.76	31.83	50.43	74.00	-23.57	Vertical
9848.00	36.34	38.62	14.31	31.77	57.50	74.00	-16.50	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	42.91	31.90	8.70	32.15	51.36	74.00	-22.64	Horizontal
7386.00	33.03	36.49	11.76	31.83	49.45	74.00	-24.55	Horizontal
9848.00	32.57	38.62	14.31	31.77	53.73	74.00	-20.27	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	34.40	31.90	8.70	32.15	42.85	54.00	-11.15	Vertical
7386.00	23.96	36.49	11.76	31.83	40.38	54.00	-13.62	Vertical
9848.00	24.87	38.62	14.31	31.77	46.03	54.00	-7.97	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.35	31.90	8.70	32.15	41.80	54.00	-12.20	Horizontal
7386.00	22.44	36.49	11.76	31.83	38.86	54.00	-15.14	Horizontal
9848.00	21.85	38.62	14.31	31.77	43.01	54.00	-10.99	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. " \ast ", 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	39.45	31.79	8.62	32.10	47.76	74.00	-26.24	Vertical
7236.00	33.69	36.19	11.68	31.97	49.59	74.00	-24.41	Vertical
9648.00	32.33	38.07	14.16	31.56	53.00	74.00	-21.00	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.25	31.79	8.62	32.10	46.56	74.00	-27.44	Horizontal
7236.00	33.50	36.19	11.68	31.97	49.40	74.00	-24.60	Horizontal
9648.00	31.94	38.07	14.16	31.56	52.61	74.00	-21.39	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	28.60	31.79	8.62	32.10	36.91	54.00	-17.09	Vertical
7236.00	22.57	36.19	11.68	31.97	38.47	54.00	-15.53	Vertical
9648.00	22.69	38.07	14.16	31.56	43.36	54.00	-10.64	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.83	31.79	8.62	32.10	36.14	54.00	-17.86	Horizontal
7236.00	22.10	36.19	11.68	31.97	38.00	54.00	-16.00	Horizontal
9648.00	21.70	38.07	14.16	31.56	42.37	54.00	-11.63	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

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



Test mode:		802.11n(H	IT20)	Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.65	31.85	8.66	32.12	47.04	74.00	-26.96	Vertical
7311.00	33.85	36.37	11.71	31.91	50.02	74.00	-23.98	Vertical
9748.00	33.42	38.27	14.25	31.56	54.38	74.00	-19.62	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.24	31.85	8.66	32.12	47.63	74.00	-26.37	Horizontal
7311.00	32.55	36.37	11.71	31.91	48.72	74.00	-25.28	Horizontal
9748.00	33.33	38.27	14.25	31.56	54.29	74.00	-19.71	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.56	31.85	8.66	32.12	37.95	54.00	-16.05	Vertical
7311.00	22.18	36.37	11.71	31.91	38.35	54.00	-15.65	Vertical
9748.00	22.68	38.27	14.25	31.56	43.64	54.00	-10.36	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.39	31.85	8.66	32.12	37.78	54.00	-16.22	Horizontal
7311.00	21.64	36.37	11.71	31.91	37.81	54.00	-16.19	Horizontal
9748.00	23.06	38.27	14.25	31.56	44.02	54.00	-9.98	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

Remark:

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

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



Test mode:		802.11n(H	IT20)	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	43.68	31.90	8.70	32.15	52.13	74.00	-21.87	Vertical
7386.00	34.21	36.49	11.76	31.83	50.63	74.00	-23.37	Vertical
9848.00	36.49	38.62	14.31	31.77	57.65	74.00	-16.35	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.17	31.90	8.70	32.15	51.62	74.00	-22.38	Horizontal
7386.00	33.20	36.49	11.76	31.83	49.62	74.00	-24.38	Horizontal
9848.00	32.70	38.62	14.31	31.77	53.86	74.00	-20.14	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	34.69	31.90	8.70	32.15	43.14	54.00	-10.86	Vertical
7386.00	24.15	36.49	11.76	31.83	40.57	54.00	-13.43	Vertical
9848.00	25.01	38.62	14.31	31.77	46.17	54.00	-7.83	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.60	31.90	8.70	32.15	42.05	54.00	-11.95	Horizontal
7386.00	22.61	36.49	11.76	31.83	39.03	54.00	-14.97	Horizontal
9848.00	21.98	38.62	14.31	31.77	43.14	54.00	-10.86	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

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



Test mode:		802.11n(HT40)			Test channel:			Lowe	est	
Peak value:										<u>'</u>
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit Line (dBuV/m)		Over Limit (dB)	polarization
4844.00	38.47	31.81	8.63	32.11		46.80	74.00		-27.20	Vertical
7266.00	33.07	36.28	11.69	31.94		49.10	74.00		-24.90	Vertical
9688.00	31.89	38.13	14.21	31.52		52.71	74.00		-21.29	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	37.42	31.81	8.63	32.11		45.75	74.	00	-28.25	Horizontal
7266.00	32.96	36.28	11.69	31.94		48.99	74.	00	-25.01	Horizontal
9688.00	31.53	38.13	14.21	31.52		52.35	74.	00	-21.65	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal

Average value:

, troings rui								
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	27.70	31.81	8.63	32.11	36.03	54.00	-17.97	Vertical
7266.00	21.97	36.28	11.69	31.94	38.00	54.00	-16.00	Vertical
9688.00	22.27	38.13	14.21	31.52	43.09	54.00	-10.91	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.06	31.81	8.63	32.11	35.39	54.00	-18.61	Horizontal
7266.00	21.57	36.28	11.69	31.94	37.60	54.00	-16.40	Horizontal
9688.00	21.31	38.13	14.21	31.52	42.13	54.00	-11.87	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 chann		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	37.84	31.85	8.66	32.12		46.23	74.	00	-27.77	Vertical
7311.00	33.34	36.37	11.71	31.9	91	49.51	74.	00	-24.49	Vertical
9748.00	33.05	38.27	14.25	31.56		54.01	74.00		-19.99	Vertical
12185.00	*						74.00			Vertical
14622.00	*						74.00			Vertical
17059.00	*						74.00			Vertical
4874.00	38.56	31.85	8.66	32.	2.12 46.95		74.	00	-27.05	Horizontal
7311.00	32.10	36.37	11.71	31.9	91	48.27	74.	00	-25.73	Horizontal
9748.00	32.99	38.27	14.25	31.56		53.95	74.00		-20.05	Horizontal
12185.00	*						74.	00		Horizontal
14622.00	*						74.	00		Horizontal
17059.00	*						74.	00		Horizontal
Average val										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dE	tor	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4874.00	28.81	31.85	8.66	32.	12	37.20	54.	00	-16.80	Vertical
7311.00	21.69	36.37	11.71	31.9	91	37.86	54.	00	-16.14	Vertical
9748.00	22.33	38.27	14.25	31.	56	43.29	54.	00	-10.71	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	28.75	31.85	8.66	32.	12	37.14	54.	00	-16.86	Horizontal
7311.00	21.21	36.37	11.71	31.9	91	37.38	54.	00	-16.62	Horizontal
9748.00	22.73	38.27	14.25	31.	56	43.69	54.	00	-10.31	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*						54.	00		Horizontal

Remark:

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

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



Test mode:		802.11n(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	42.28	31.88	8.68	32.13	50.71	74.00	-23.29	Vertical
7356.00	33.32	36.45	11.75	31.86	49.66	74.00	-24.34	Vertical
9808.00	35.85	38.43	14.29	31.68	56.89	74.00	-17.11	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	41.99	31.88	8.68	32.13	50.42	74.00	-23.58	Horizontal
7356.00	32.43	36.45	11.75	31.86	48.77	74.00	-25.23	Horizontal
9808.00	32.12	38.43	14.29	31.68	53.16	74.00	-20.84	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	33.40	31.88	8.68	32.13	41.83	54.00	-12.17	Vertical
7356.00	23.30	36.45	11.75	31.86	39.64	54.00	-14.36	Vertical
9808.00	24.40	38.43	14.29	31.68	45.44	54.00	-8.56	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	32.49	31.88	8.68	32.13	40.92	54.00	-13.08	Horizontal
7356.00	21.86	36.45	11.75	31.86	38.20	54.00	-15.80	Horizontal
9808.00	21.42	38.43	14.29	31.68	42.46	54.00	-11.54	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

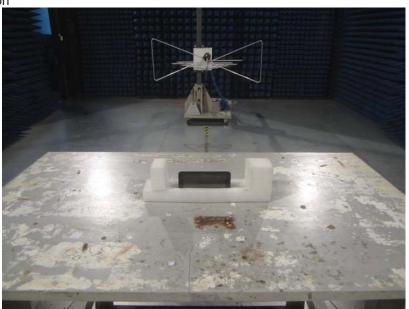
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

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



8 Test Setup Photo

Radiated Emission







Conducted Emission



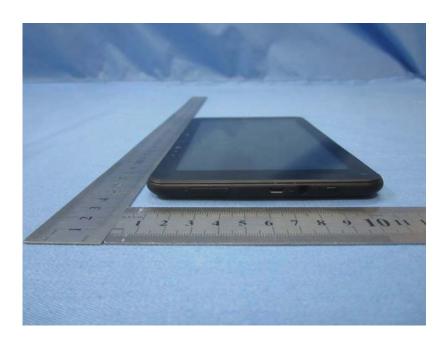


9 EUT Constructional Details















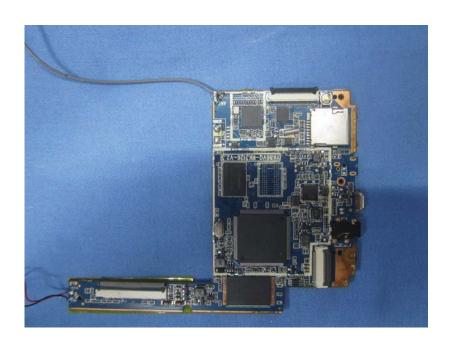






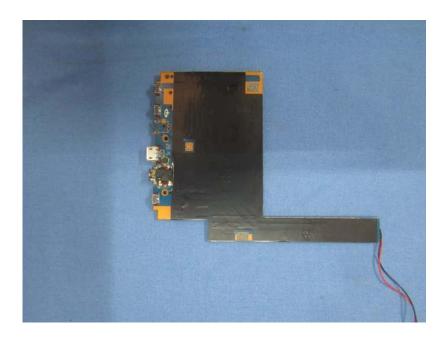


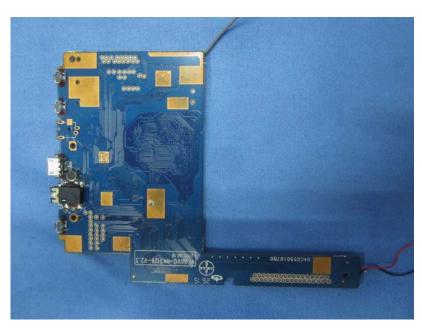






















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