

FCC REPORT

Applicant: Shenzhen Compare Electronics Co.,Ltd.

Address of Applicant: 7B, block D ,the third industrial zone of Zhu Ao,
1st Gu Shu road, XiXiang, Bao'an District, Shenzhen China

Equipment Under Test (EUT)

Product Name: Wireless USB Module

Model No.: CP318 series V1.1,V2.2,V2.3,V2.4,V2.5

FCC ID: A2TCP318

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

Date of sample receipt: Nov.15, 2011

Date of Test: Nov.16-19, 2011

Date of report issued: Nov.21, 2011

Test Result : PASS *

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

Authorized Signature:



Stephen Guo
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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2 Version

Version No.	Date	Description
00	Nov.21, 2011	Original

Prepared By:

Collin He

Date:

Nov.21, 2011

Project Engineer

Check By:

Hans.Hu

Date:

Nov.21, 2011

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Occupied 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.

5 General Information

5.1 Client Information

Applicant:	Shenzhen Compare Electronics Co.,Ltd.
Address of Applicant:	7B, block D ,the third industrial zone of Zhu Ao, 1st Gu Shu road, XiXiang, Bao'an District, Shenzhen China
Manufacturer/ Factory:	Shenzhen Compare Electronics Co.,Ltd
Address of Manufacturer/ Factory:	7B, block D ,the third industrial zone of Zhu Ao, 1st Gu Shu road, XiXiang, Bao'an District, Shenzhen China

5.2 General Description of E.U.T.

Product Name:	Wireless USB Module
Model No.:	CP318 series V1.1,V2.2,V2.3,V2.4,V2.5
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40))
Channel numbers:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps
Data speed (IEEE 802.11n):	6.5Mbps, 13Mbps,19.5Mbps,26Mbps,39Mbps,52Mbps,58.5Mbps 78 Mbps,104Mbps,117Mbps,130Mbps
Antenna Type:	Omni-antenna
Antenna gain:	2dBi (declare by manufacturer)
Power supply:	DC 3.3V
Remark :	Only the model V2.2 was tested. CP318 series V1.1, V2.2, V2.3, V2.4, and V2.5 are identical in the same PCB layout, interior structure and electrical circuits. The only differences are the model name.

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	X	

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:

802.11b/802.11g/802.11n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n (HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Wifi mode	Keep the EUT in the continuous transmitting mode.

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

Final Test Mode:

According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup” 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(HT20) and 802.11n(HT40).

5.4 Test Facility

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

● **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 600491, July 20, 2010.

● **Industry Canada (IC)**

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

5.5 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

5.6 Other Information Requested by the Customer

None.

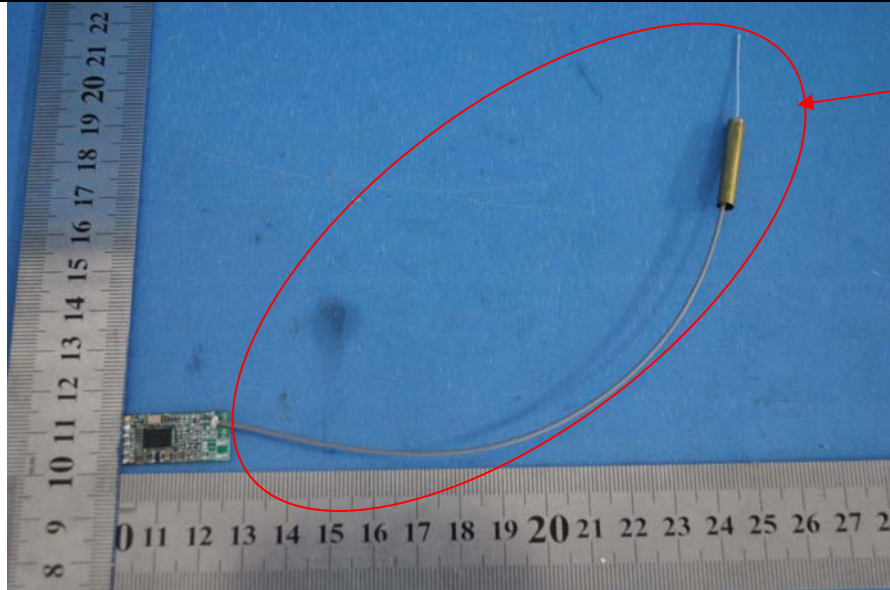
5.7 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 30 2011	Mar. 29 2012
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 04 2011	Jul. 03 2012
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 26 2011	Feb. 25 2012
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 30 2011	June 29 2012
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2011	Mar. 29 2012
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	Apr. 01 2011	Mar. 31 2012
9	Coaxial Cable	GTS	N/A	GTS211	Apr. 01 2011	Mar. 31 2012
9	Coaxial cable	GTS	N/A	GTS210	Apr. 01 2011	Mar. 31 2012
11	Coaxial Cable	GTS	N/A	GTS212	Apr. 01 2011	Mar. 31 2012
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 04 2011	Jul. 03 2012
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 04 2011	Jul. 03 2012
14	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 30 2011	June 29 2012
15	Band filter	Amindeon	82346	GTS219	June 30 2011	June 29 2012

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)	GTS252	Jul. 04 2011	Jul. 03 2012
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 04 2011	Jul. 03 2012
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 04 2011	Jul. 03 2012
4	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 04 2011	Jul. 03 2012
5	Coaxial Cable	GTS	N/A	GTS227	Apr. 01 2011	Mar. 31 2012
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

6 Test results and Measurement Data

6.1 Antenna requirement:

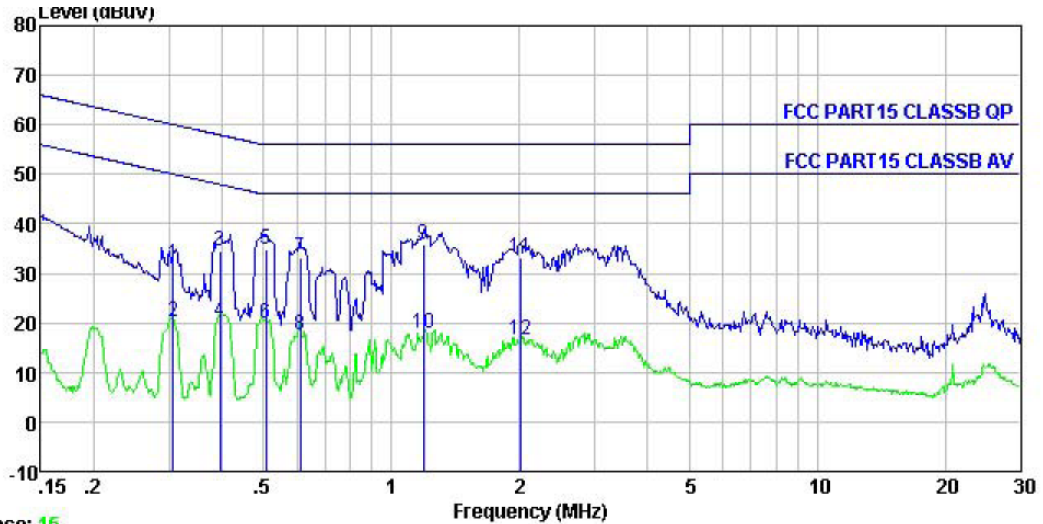
Standard requirement:	FCC Part15 C Section 15.203 /247(c)
<p><i>15.203 requirement:</i> <i>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that 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.</i></p> <p><i>15.247(c) (1)(i) requirement:</i> <i>(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.</i></p>	
E.U.T Antenna:	
<p><i>The antenna is an omni-antenna which permanently attached; the best case gain of the antenna is 2dBi.</i></p>	
	

6.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.4: 2009														
Test Frequency Range:	150KHz to 30MHz														
Class / Severity:	Class B														
Receiver setup:	RBW=9KHz, VBW=30KHz														
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>* Decreases with the logarithm of the frequency.</p>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test procedure	<ol style="list-style-type: none"> The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide 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 refers 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: 2009 on conducted measurement. 														
Test setup:	<p>Remark: <i>E.U.T: Equipment Under Test</i> <i>LISN: Line Impedance Stabilization Network</i> <i>Test table height=0.8m</i></p>														
Test Instruments:	Refer to section 5.7 for details														
Test mode:	Refer to section 5.3 for details														
Test results:	Passed														

Measurement Data

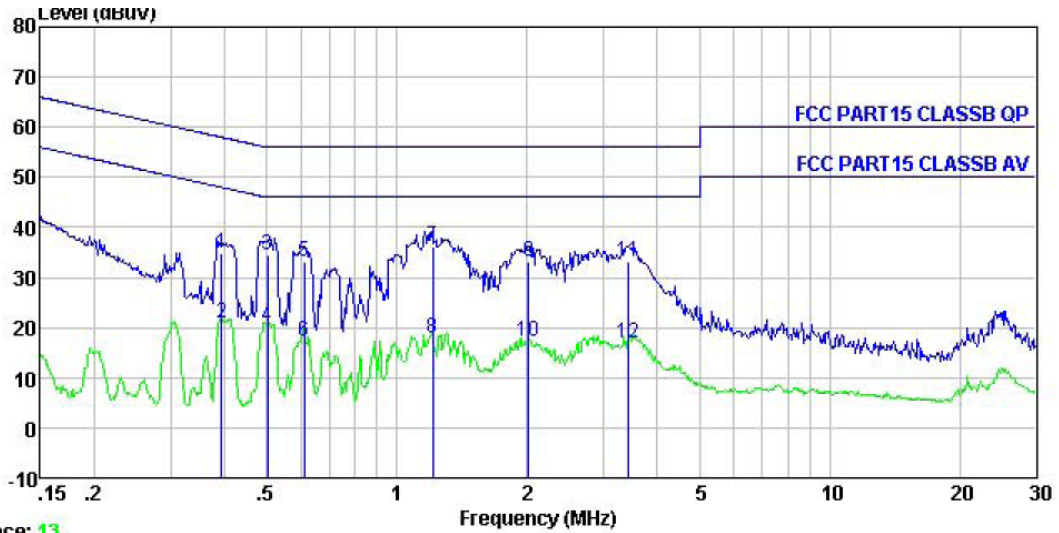
Live Line:



Trace: 15
 Condition : FCC PART15 CLASSB QP LISN(2011) LINE
 Job No. : 917RF
 Test Mode : WIFI Mode
 Test Engineer: Gavin

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.307	31.23	0.61	0.10	31.94	60.06	-28.12	QP
2	0.307	19.62	0.61	0.10	20.33	50.06	-29.73	Average
3	0.396	33.74	0.58	0.10	34.42	57.95	-23.53	QP
4	0.396	19.45	0.58	0.10	20.13	47.95	-27.82	Average
5	0.507	34.10	0.55	0.10	34.75	56.00	-21.25	QP
6	0.507	19.36	0.55	0.10	20.01	46.00	-25.99	Average
7	0.611	32.49	0.53	0.10	33.12	56.00	-22.88	QP
8	0.611	16.78	0.53	0.10	17.41	46.00	-28.59	Average
9	1.191	35.15	0.46	0.10	35.71	56.00	-20.29	QP
10	1.191	17.21	0.46	0.10	17.77	46.00	-28.23	Average
11	2.012	32.64	0.40	0.10	33.14	56.00	-22.86	QP
12	2.012	15.91	0.40	0.10	16.41	46.00	-29.59	Average

Neutral Line:



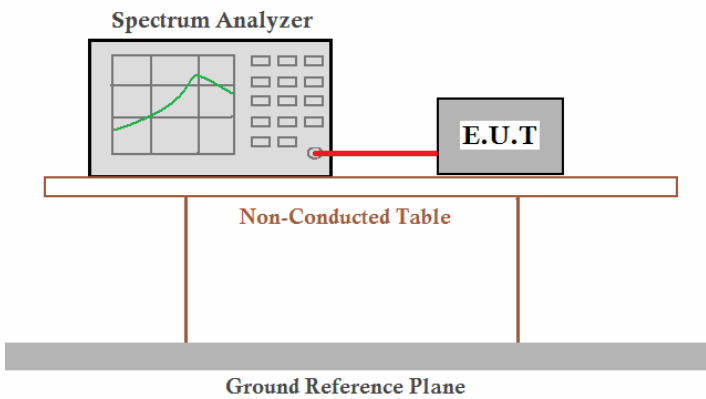
Trace: 13
 Condition : FCC PART15 CLASSB QP LISN(2011) NEUTRAL
 Job No. : 917RF
 Test Mode : WIFI Mode
 Test Engineer: Gavin

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.393	34.08	0.58	0.10	34.76	57.99	-23.23	QP
2	0.393	20.35	0.58	0.10	21.03	47.99	-26.96	Average
3	0.502	33.74	0.55	0.10	34.39	56.00	-21.61	QP
4	0.502	19.47	0.55	0.10	20.12	46.00	-25.88	Average
5	0.611	32.61	0.53	0.10	33.24	56.00	-22.76	QP
6	0.611	16.52	0.53	0.10	17.15	46.00	-28.85	Average
7	1.210	35.51	0.46	0.10	36.07	56.00	-19.93	QP
8	1.210	17.19	0.46	0.10	17.75	46.00	-28.25	Average
9	2.012	32.76	0.40	0.10	33.26	56.00	-22.74	QP
10	2.012	16.89	0.40	0.10	17.39	46.00	-28.61	Average
11	3.436	32.79	0.34	0.10	33.23	56.00	-22.77	QP
12	3.436	16.48	0.34	0.10	16.92	46.00	-29.08	Average

Notes:

1. An initial pre-scan was performed on the live 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

6.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2009 and KDB558074
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

Peak Power

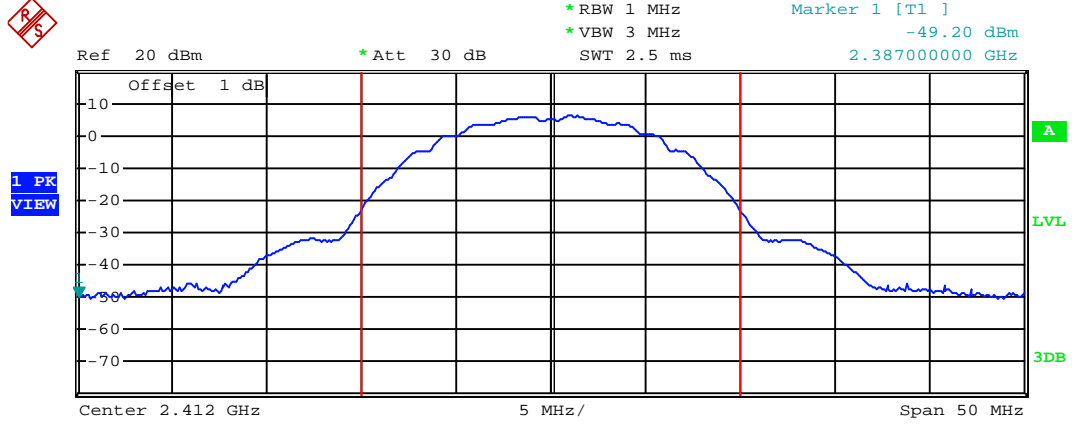
Test CH	Peak Output Power (dBm)				Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	
Lowest	14.11	14.88	13.28	14.20	Pass
Middle	13.13	13.05	14.68	14.25	
Highest	12.86	14.03	14.46	14.36	

Average Power

Test CH	Average Power (dBm)				Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	
Lowest	13.05	13.29	12.17	13.59	Pass
Middle	12.71	12.09	13.33	13.58	
Highest	11.78	13.24	13.75	13.42	

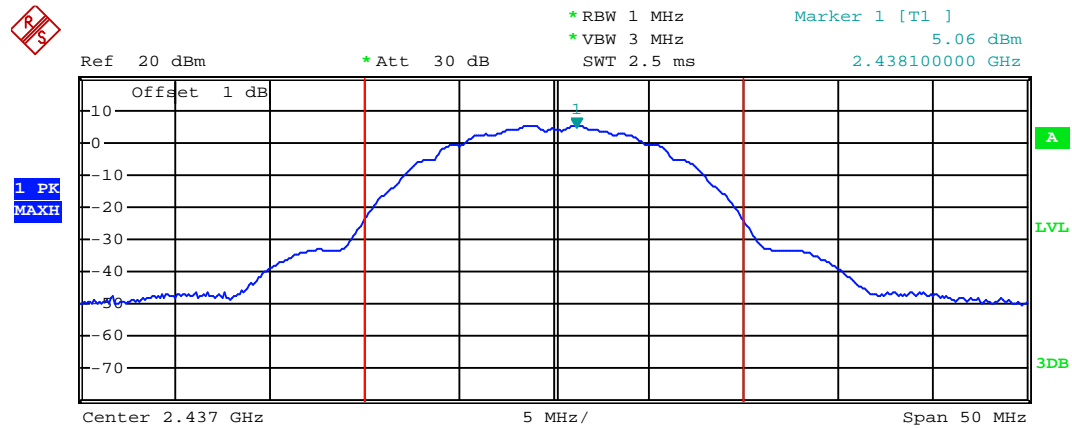
Test plot as follows:

Test mode:	802.11b
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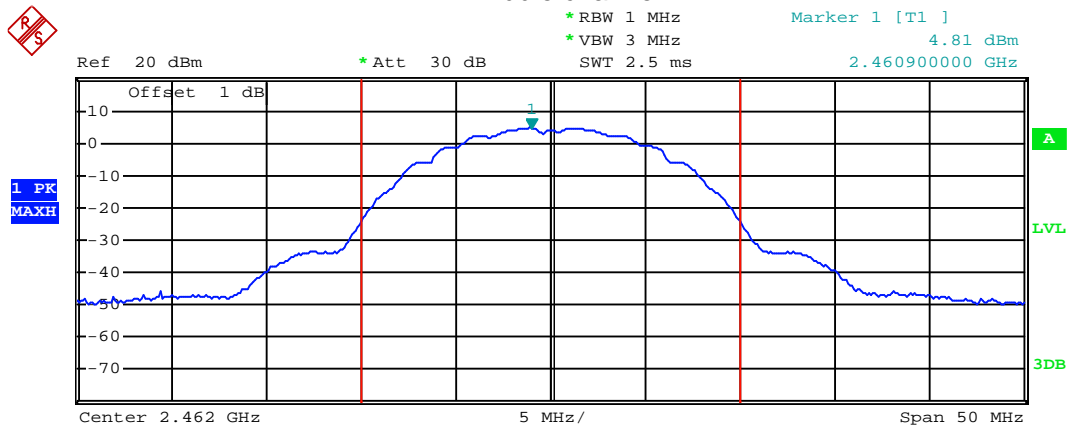
Tx Channel
Bandwidth 20 MHz Power 14.11 dBm

Lowest channel



Tx Channel
Bandwidth 20 MHz Power 13.13 dBm

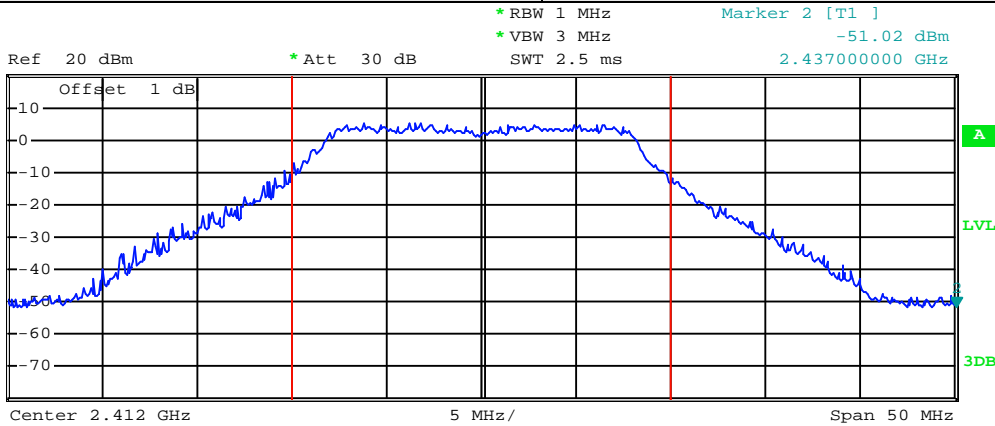
Middle channel



Tx Channel
Bandwidth 20 MHz Power 12.86 dBm

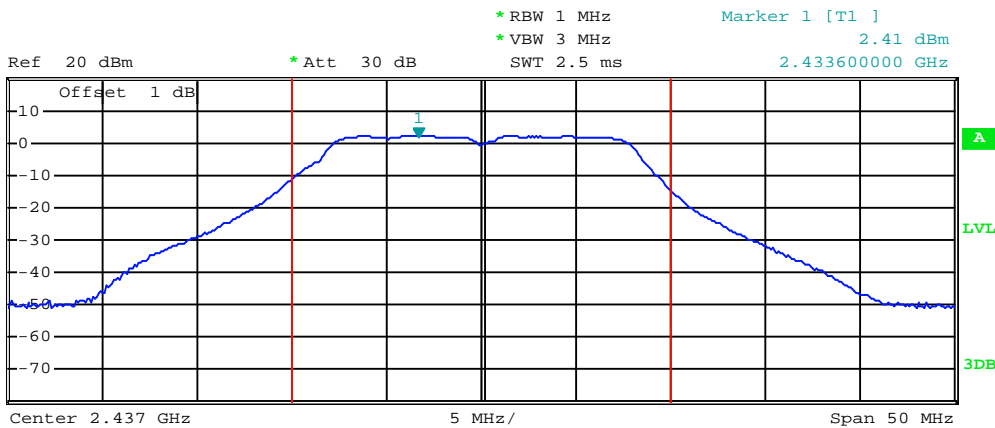
Highest channel

Test mode: 802.11g



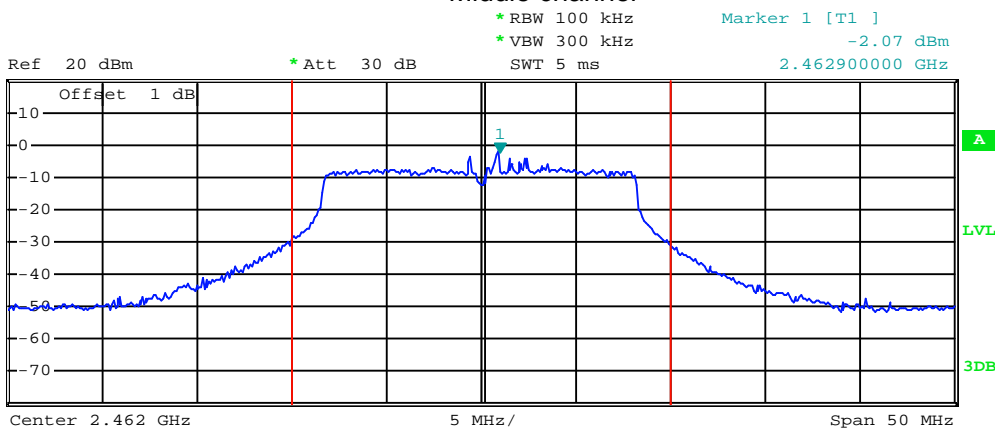
Tx Channel
 Bandwidth 20 MHz Power 14.88 dBm

Lowest channel



Tx Channel
 Bandwidth 20 MHz Power 13.05 dBm

Middle channel



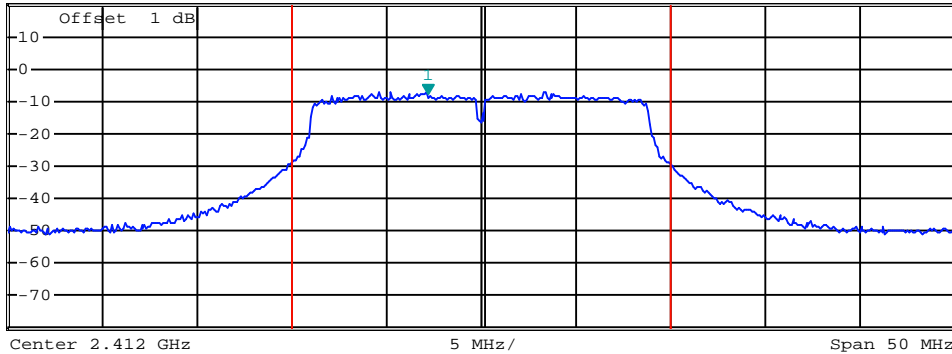
Tx Channel
 Bandwidth 20 MHz Power 14.03 dBm

Highest channel

Test mode: 802.11n(HT20)



Ref 20 dBm * Att 30 dB * RBW 100 kHz * VBW 300 kHz * Marker 1 [T1] -7.07 dBm
SWT 5 ms 2.409100000 GHz

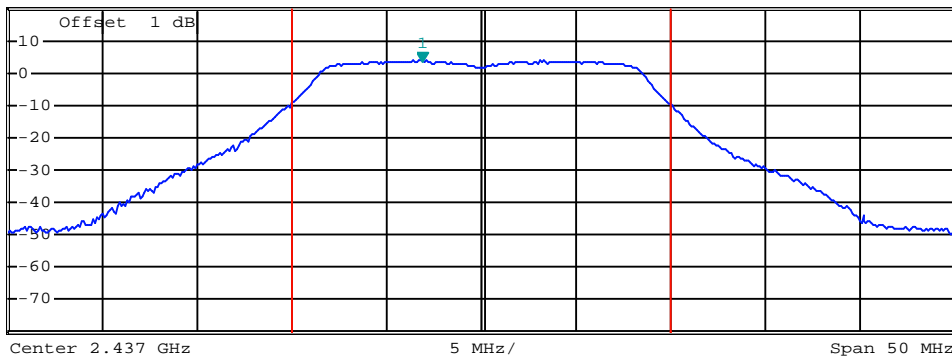


Tx Channel
Bandwidth 20 MHz Power 13.28 dBm

Lowest channel



Ref 20 dBm * Att 30 dB * RBW 1 MHz * VBW 3 MHz * Marker 1 [T1] 4.17 dBm
SWT 2.5 ms 2.433800000 GHz

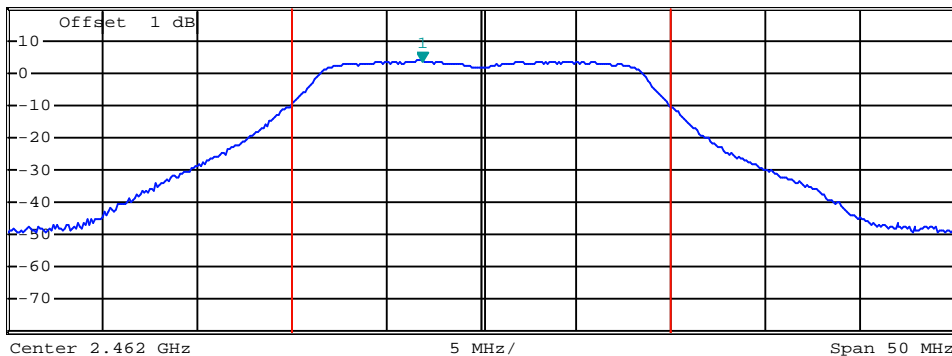


Tx Channel
Bandwidth 20 MHz Power 14.68 dBm

Middle channel



Ref 20 dBm * Att 30 dB * RBW 1 MHz * VBW 3 MHz * Marker 1 [T1] 3.92 dBm
SWT 2.5 ms 2.458800000 GHz



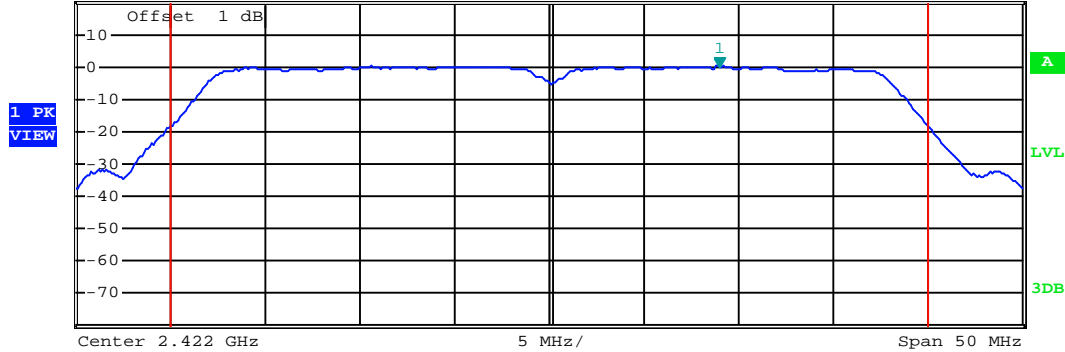
Tx Channel
Bandwidth 20 MHz Power 14.46 dBm

Highest channel

Test mode:	802.11n(HT40)
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Ref 20 dBm * Att 30 dB * RBW 1 MHz * VBW 3 MHz * SWT 2.5 ms Marker 1 [T1] 0.17 dBm 2.430900000 GHz

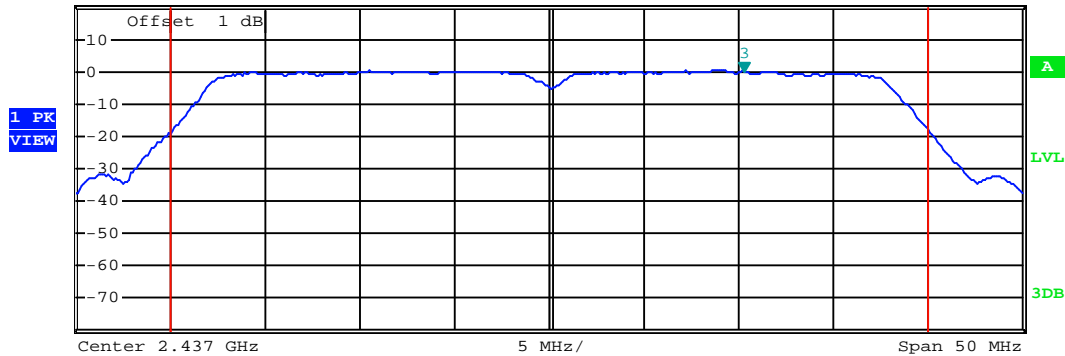


Tx Channel
Bandwidth 40 MHz Power 14.20 dBm

Lowest channel



Ref 20 dBm * Att 30 dB * RBW 1 MHz * VBW 3 MHz * SWT 2.5 ms Marker 3 [T1] 0.35 dBm 2.447200000 GHz

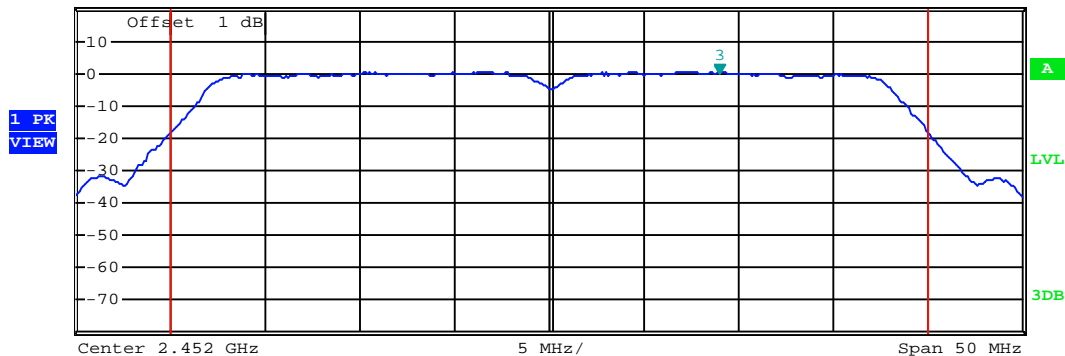


Tx Channel
Bandwidth 40 MHz Power 14.25 dBm

Middle channel



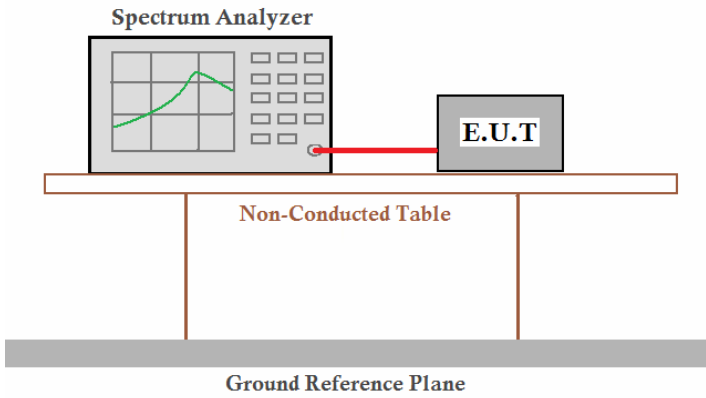
Ref 20 dBm * Att 30 dB * RBW 1 MHz * VBW 3 MHz * SWT 2.5 ms Marker 3 [T1] 0.41 dBm 2.460900000 GHz



Tx Channel
Bandwidth 40 MHz Power 14.36 dBm

Highest channel

6.4 6dB Occupy Bandwidth

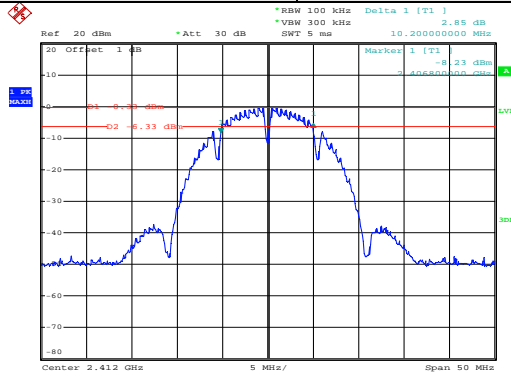
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2009 and KDB558074
Limit:	>500KHz
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

Test CH	6dB Occupy Bandwidth (MHz)				Limit(KHz)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	10.20	16.70	17.80	36.60	>500	Pass
Middle	10.30	16.50	17.80	36.50		
Highest	10.10	16.60	17.80	36.60		

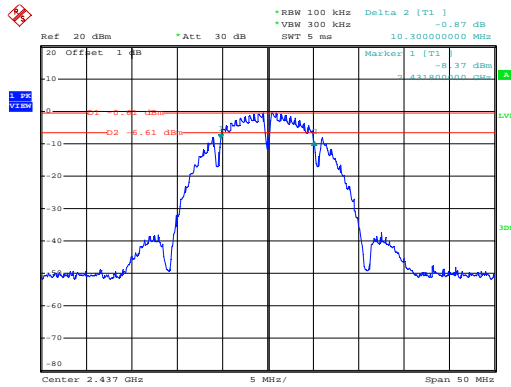
Test plot as follows:

Test mode:	802.11b
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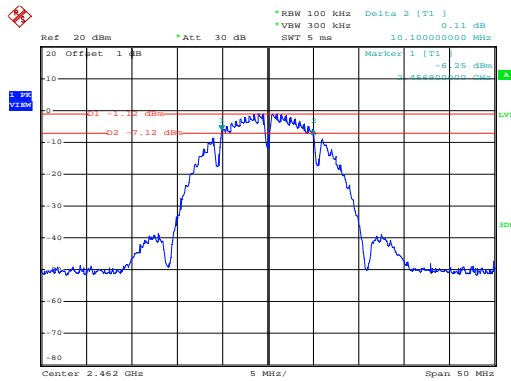
Date: 16.NOV.2011 08:24:19

Lowest channel



Date: 16.NOV.2011 08:36:53

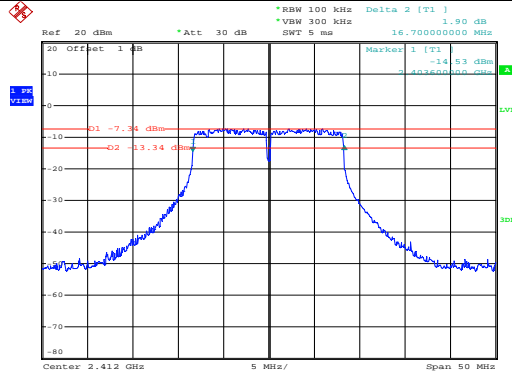
Middle channel



Date: 16.NOV.2011 08:45:48

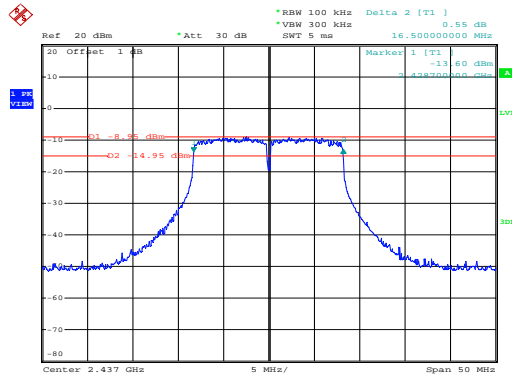
Highest channel

Test mode:	802.11g
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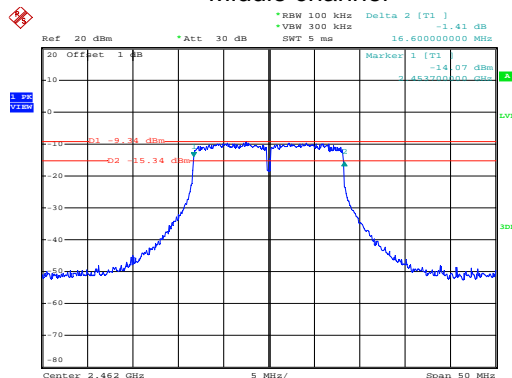
Date: 17.NOV.2011 01:49:11

Lowest channel



Date: 16.NOV.2011 09:02:56

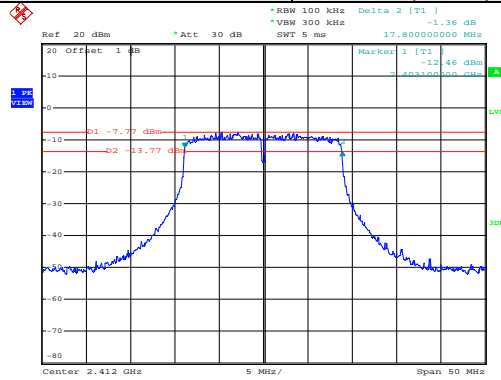
Middle channel



Date: 16.NOV.2011 09:27:29

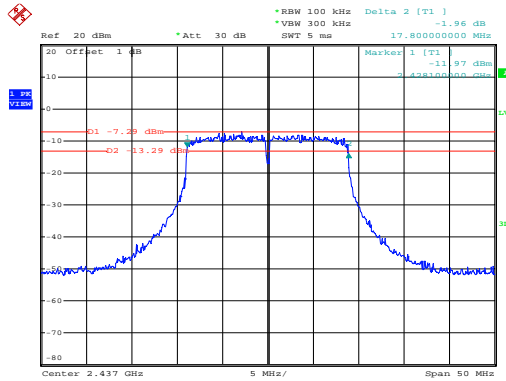
Highest channel

Test mode: 802.11n(HT20)



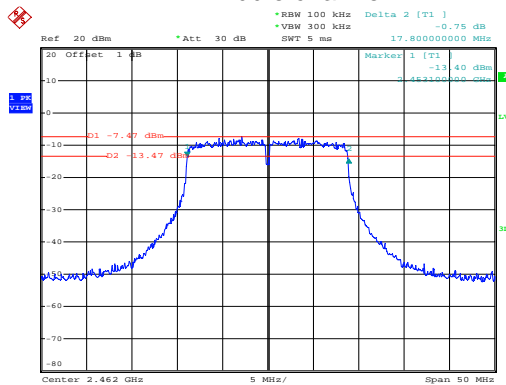
Date: 16.NOV.2011 09:45:33

Lowest channel



Date: 16.NOV.2011 09:51:25

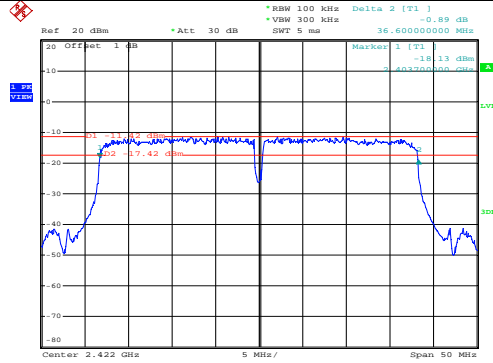
Middle channel



Date: 16.NOV.2011 09:56:25

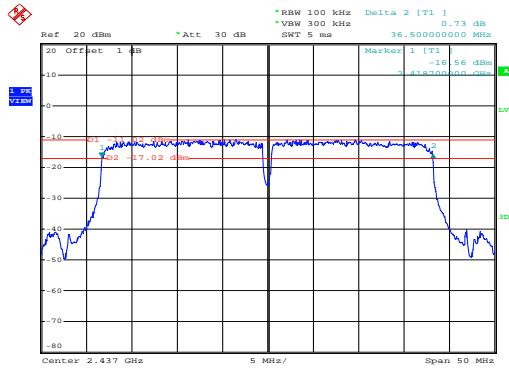
Highest channel

Test mode: 802.11n(HT40)



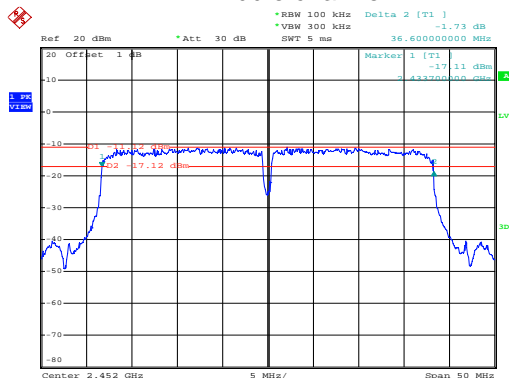
Date: 16.NOV.2011 10:09:29

Lowest channel



Date: 16.NOV.2011 10:28:44

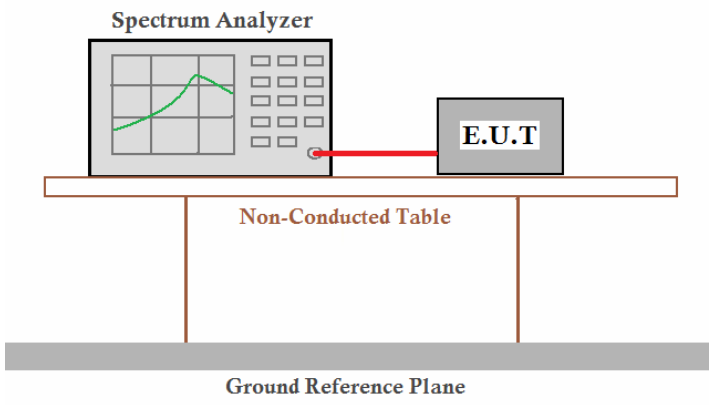
Middle channel



Date: 16.NOV.2011 10:27:27

Highest channel

6.5 Power Spectral Density

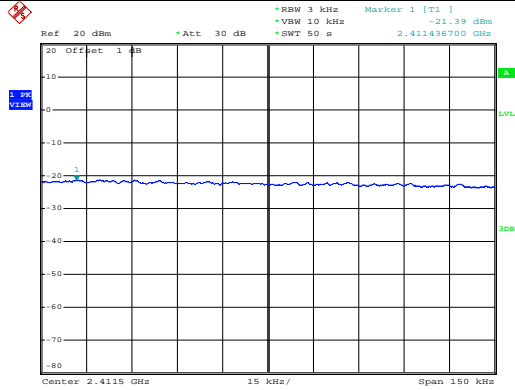
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2009 and KDB558074
Limit:	8dBm
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

Test CH	Power Spectral Density (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)		
Lowest	-21.39	-24.86	-22.64	-25.33	8.00	Pass
Middle	-21.06	-22.74	-22.75	-26.79		
Highest	-24.98	-24.00	-22.86	-25.57		

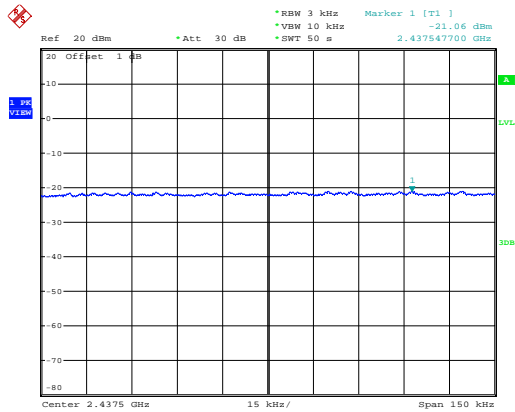
Test plot as follows:

Test mode: 802.11b



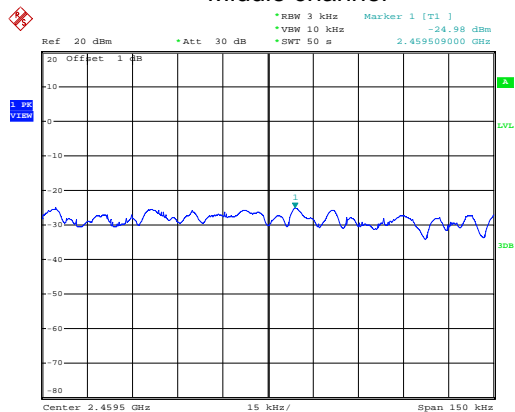
Date: 16.NOV.2011 08:28:11

Lowest channel



Date: 16.NOV.2011 08:39:19

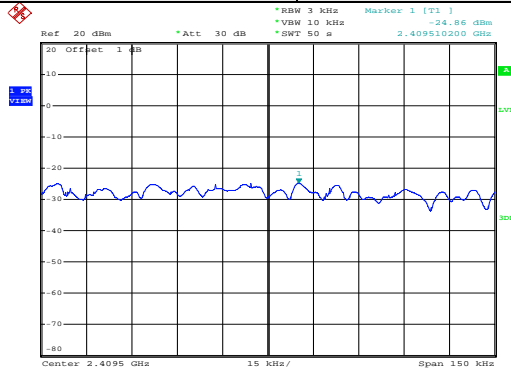
Middle channel



Date: 16.NOV.2011 09:28:58

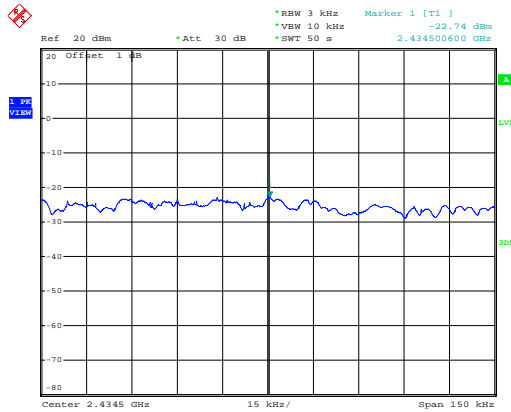
Highest channel

Test mode:	802.11g
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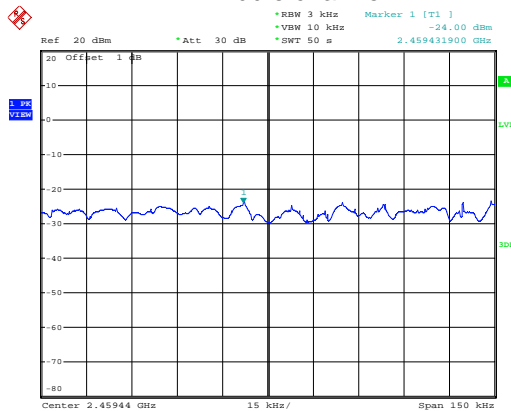
Date: 16.NOV.2011 08:55:47

Lowest channel



Date: 17.NOV.2011 01:52:36

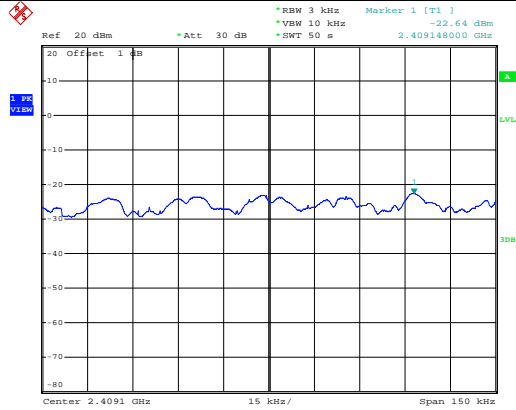
Middle channel



Date: 16.NOV.2011 09:39:51

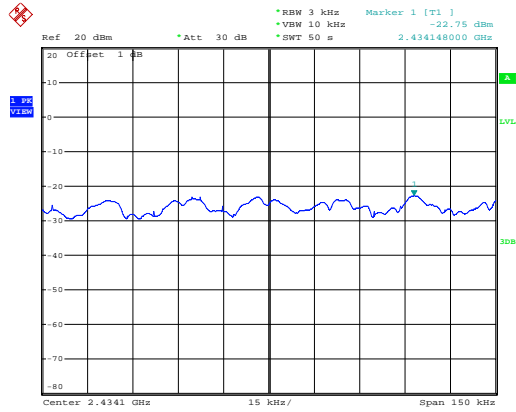
Highest channel

Test mode:	802.11n(HT20)
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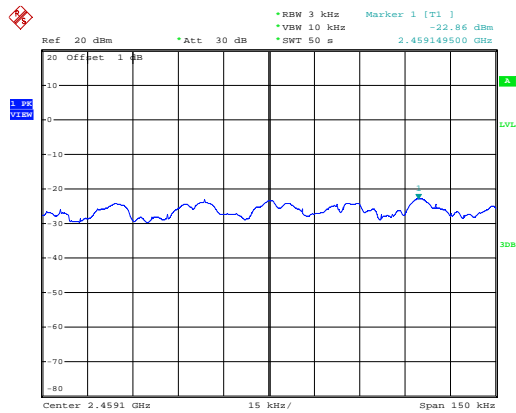
Date: 16.NOV.2011 09:47:10

Lowest channel



Date: 16.NOV.2011 09:53:03

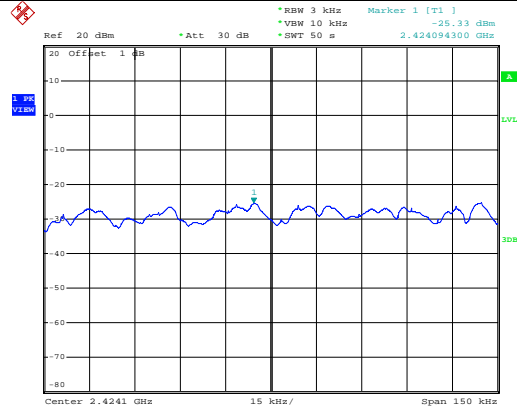
Middle channel



Date: 16.NOV.2011 09:59:41

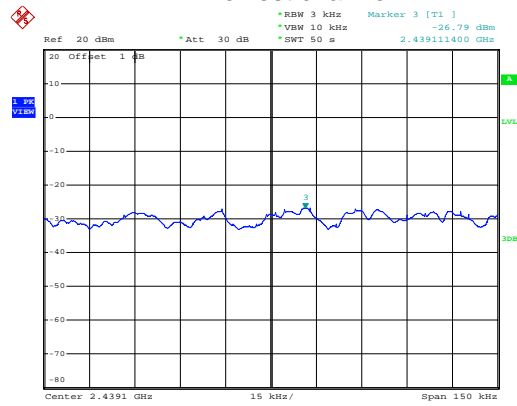
Highest channel

Test mode:	802.11n(HT40)
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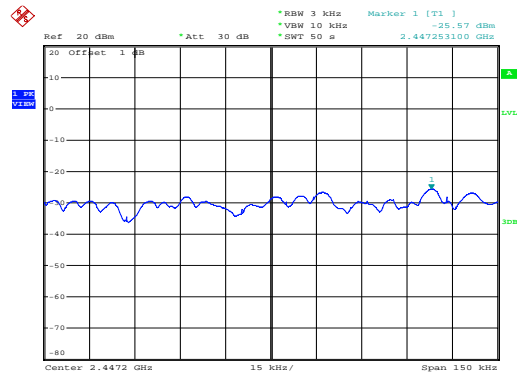
Date: 17.NOV.2011 02:01:36

Lowest channel



Date: 16.NOV.2011 10:21:38

Middle channel

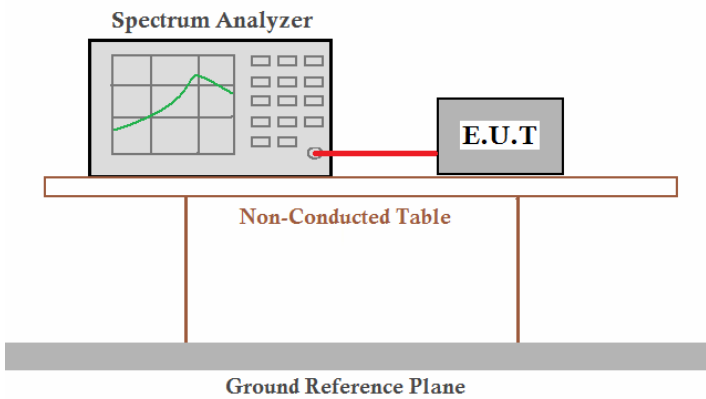


Date: 16.NOV.2011 10:32:30

Highest channel

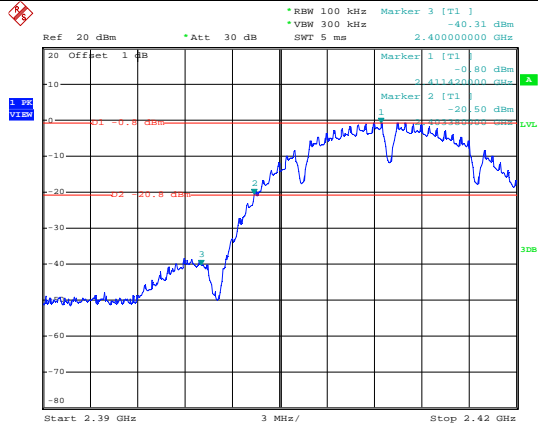
6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2009 and KDB558074
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:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

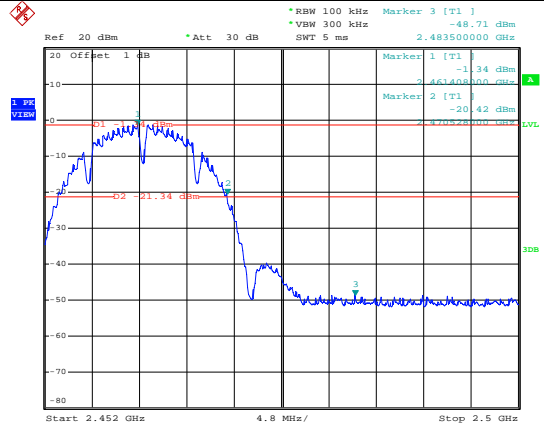
Test plot as follows:

Test mode:802.11b



Date: 16.NOV.2011 08:32:06

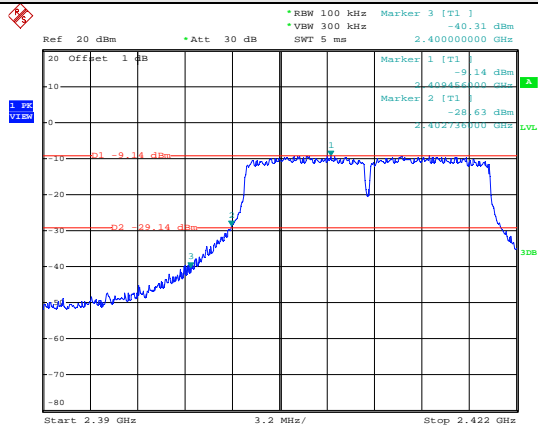
Lowest channel



Date: 16.NOV.2011 08:49:36

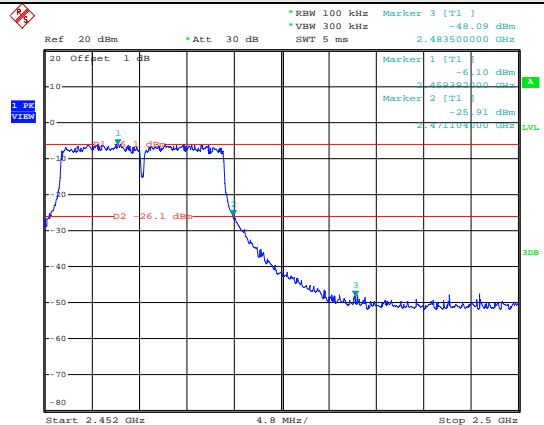
Highest channel

Test mode:802.11g



Date: 16.NOV.2011 09:35:01

Lowest channel

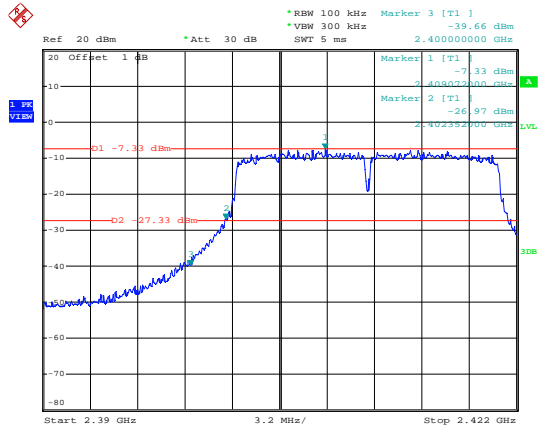


Date: 17.NOV.2011 02:08:01

Highest channel

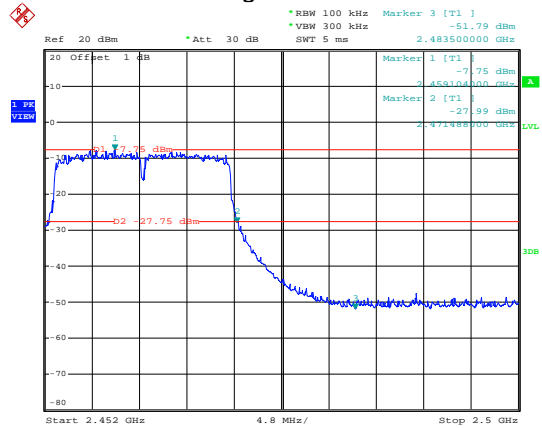
Test mode:802.11n(HT20)

Lowest channel



Date: 16.NOV.2011 09:48:25

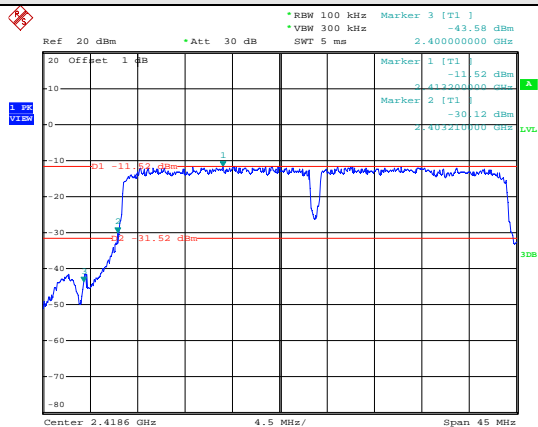
Highest channel



Date: 16.NOV.2011 09:57:48

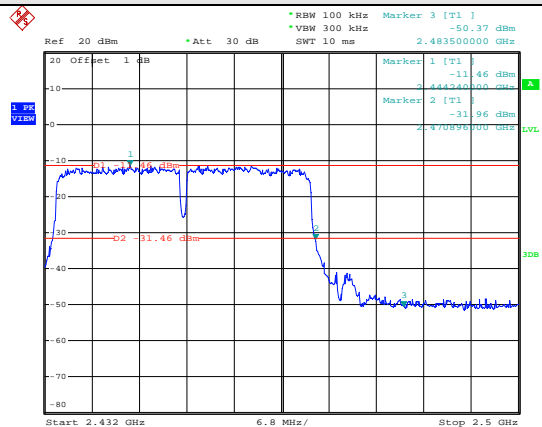
Test mode:802.11n(HT40)

Lowest channel



Date: 16.NOV.2011 10:11:44

Highest channel



Date: 16.NOV.2011 10:34:45

6.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205														
Test Method:	ANSI C63.4: 2009														
Test Frequency Range:	2.3GHz to 2.5GHz														
Test site:	Measurement Distance: 3m														
Receiver setup:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak Value</td> </tr> <tr> <td>Average</td> <td>1MHz</td> <td>10Hz</td> <td>Average Value</td> </tr> </tbody> </table>	Frequency	Detector	RBW	VBW	Remark	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Average	1MHz	10Hz	Average Value
Frequency	Detector	RBW	VBW	Remark											
Above 1GHz	Peak	1MHz	3MHz	Peak Value											
	Average	1MHz	10Hz	Average Value											
Limit:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBuV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Above 1GHz</td> <td>54.00</td> <td>Average Value</td> </tr> <tr> <td>74.00</td> <td>Peak Value</td> </tr> </tbody> </table>	Frequency	Limit (dBuV/m @3m)	Remark	Above 1GHz	54.00	Average Value	74.00	Peak Value						
Frequency	Limit (dBuV/m @3m)	Remark													
Above 1GHz	54.00	Average Value													
	74.00	Peak Value													
Test Procedure:	<ol style="list-style-type: none"> 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. 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, quasi-peak or average method as specified and then reported in a data sheet. 														
Test setup:															
Test Instruments:	Refer to section 5.7 for details														
Test mode:	Refer to section 5.3 for details														
Test results:	Passed														

Test channel: 802.11b	Lowest	Level:	Peak
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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	51.47	27.59	3.33	30.10	52.29	74.00	-21.71	Vertical
2400.00	55.63	27.58	3.37	30.10	56.48	74.00	-17.52	Vertical
2390.00	52.82	27.59	3.33	30.10	53.64	74.00	-20.36	Horizontal
2400.00	56.69	27.58	3.37	30.10	57.54	74.00	-16.46	Horizontal

Test channel: 802.11b		Lowest			Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	35.11	27.59	3.33	30.10	35.93	54.00	-18.07	Vertical
2400.00	38.62	27.58	3.37	30.10	39.47	54.00	-14.53	Vertical
2390.00	36.46	27.59	3.33	30.10	37.28	54.00	-16.72	Horizontal
2400.00	39.68	27.58	3.37	30.10	40.53	54.00	-13.47	Horizontal

Test channel: 802.11b		Highest			Level:		Peak	
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	55.91	27.55	3.52	30.70	56.28	74.00	-17.72	Vertical
2500.00	52.01	27.53	3.49	29.93	53.10	74.00	-20.90	Vertical
2483.50	57.07	27.55	3.52	30.70	57.44	74.00	-16.56	Horizontal
2500.00	53.41	27.53	3.49	29.93	54.50	74.00	-19.50	Horizontal

Test channel: 802.11b		Highest			Level:		Average	
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	38.87	27.53	3.49	29.93	39.96	54.00	-14.04	Vertical
2500.00	34.30	27.55	3.52	30.70	34.67	54.00	-19.33	Vertical
2483.50	40.27	27.53	3.49	29.93	41.36	54.00	-12.64	Horizontal
2500.00	35.46	27.55	3.52	30.70	35.83	54.00	-18.17	Horizontal

Remark:

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

Test channel: 802.11g		Lowest			Level:		Peak	
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	49.92	27.59	3.33	30.10	50.74	74.00	-23.26	Vertical
2400.00	54.01	27.58	3.37	30.10	54.86	74.00	-19.14	Vertical
2390.00	51.46	27.59	3.33	30.10	52.28	74.00	-21.72	Horizontal
2400.00	55.29	27.58	3.37	30.10	56.14	74.00	-17.86	Horizontal

Test channel: 802.11g		Lowest			Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	35.18	27.59	3.33	30.10	36.00	54.00	-18.00	Vertical
2400.00	39.10	27.58	3.37	30.10	39.95	54.00	-14.05	Vertical
2390.00	37.16	27.59	3.33	30.10	37.98	54.00	-16.02	Horizontal
2400.00	40.91	27.58	3.37	30.10	41.76	54.00	-12.24	Horizontal

Test channel: 802.11g		Highest			Level:		Peak	
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	54.70	27.55	3.52	30.70	55.07	74.00	-18.93	Vertical
2500.00	50.75	27.53	3.49	29.93	51.84	74.00	-22.16	Vertical
2483.50	55.96	27.55	3.52	30.70	56.33	74.00	-17.67	Horizontal
2500.00	52.35	27.53	3.49	29.93	53.44	74.00	-20.56	Horizontal

Test channel: 802.11g		Highest			Level:		Average	
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	40.29	27.53	3.49	29.93	41.38	54.00	-12.62	Vertical
2500.00	36.03	27.55	3.52	30.70	36.40	54.00	-17.60	Vertical
2483.50	40.60	27.53	3.49	29.93	41.69	54.00	-12.31	Horizontal
2500.00	36.17	27.55	3.52	30.70	36.54	54.00	-17.46	Horizontal

Remark:

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

Test channel:802.11n(HT20)		Lowest			Level:		Peak	
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	51.06	27.59	3.33	30.10	51.88	74.00	-22.12	Vertical
2400.00	56.46	27.58	3.37	30.10	57.31	74.00	-16.69	Vertical
2390.00	51.62	27.59	3.33	30.10	52.44	74.00	-21.56	Horizontal
2400.00	55.53	27.58	3.37	30.10	56.38	74.00	-17.62	Horizontal

Test channel:802.11n(HT20)		Lowest			Level:		Average	
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	37.39	27.59	3.33	30.10	38.21	54.00	-15.79	Vertical
2400.00	41.33	27.58	3.37	30.10	42.18	54.00	-11.82	Vertical
2390.00	36.95	27.59	3.33	30.10	37.77	54.00	-16.23	Horizontal
2400.00	40.67	27.58	3.37	30.10	41.52	54.00	-12.48	Horizontal

Test channel:802.11n(HT20)		Highest			Level:		Peak	
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	54.58	27.53	3.49	29.93	55.67	74.00	-18.33	Vertical
2500.00	50.19	27.55	3.52	30.70	50.56	74.00	-23.44	Vertical
2483.50	54.26	27.53	3.49	29.93	55.35	74.00	-18.65	Horizontal
2500.00	49.35	27.55	3.52	30.70	49.72	74.00	-24.28	Horizontal

Test channel: 802.11n(HT20)		Highest			Level:		Average	
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	40.57	27.53	3.49	29.93	41.66	54.00	-12.34	Vertical
2500.00	37.44	27.55	3.52	30.70	37.81	54.00	-16.19	Vertical
2483.50	39.62	27.53	3.49	29.93	40.71	54.00	-13.29	Horizontal
2500.00	37.08	27.55	3.52	30.70	37.45	54.00	-16.55	Horizontal

Remark:

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

Test channel: 802.11n(HT40)		Lowest			Level:		Peak	
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	53.36	27.59	3.33	30.10	54.18	74.00	-19.82	Vertical
2400.00	59.56	27.58	3.37	30.10	60.41	74.00	-13.59	Vertical
2390.00	54.02	27.59	3.33	30.10	54.84	74.00	-19.16	Horizontal
2400.00	56.73	27.58	3.37	30.10	57.58	74.00	-16.42	Horizontal

Test channel: 802.11n(HT40)		Lowest			Level:		Average	
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	39.69	27.59	3.33	30.10	40.51	54.00	-13.49	Vertical
2400.00	44.43	27.58	3.37	30.10	45.28	54.00	-8.72	Vertical
2390.00	39.35	27.59	3.33	30.10	40.17	54.00	-13.83	Horizontal
2400.00	41.87	27.58	3.37	30.10	42.72	54.00	-11.28	Horizontal

Test channel: 802.11n(HT40)		Highest			Level:		Peak	
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	56.88	27.53	3.49	29.93	57.97	74.00	-16.03	Vertical
2500.00	53.29	27.55	3.52	30.70	53.66	74.00	-20.34	Vertical
2483.50	56.66	27.53	3.49	29.93	57.75	74.00	-16.25	Horizontal
2500.00	50.55	27.55	3.52	30.70	50.92	74.00	-23.08	Horizontal

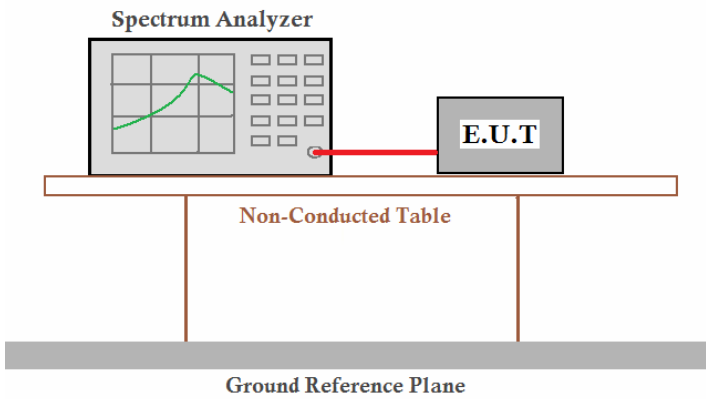
Test channel: 802.11n(HT40)		Highest			Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	42.87	27.53	3.49	29.93	43.96	54.00	-10.04	Vertical
2500.00	40.54	27.55	3.52	30.70	40.91	54.00	-13.09	Vertical
2483.50	42.02	27.53	3.49	29.93	43.11	54.00	-10.89	Horizontal
2500.00	38.28	27.55	3.52	30.70	38.65	54.00	-16.55	Horizontal

Remark:

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

6.7 Spurious Emission

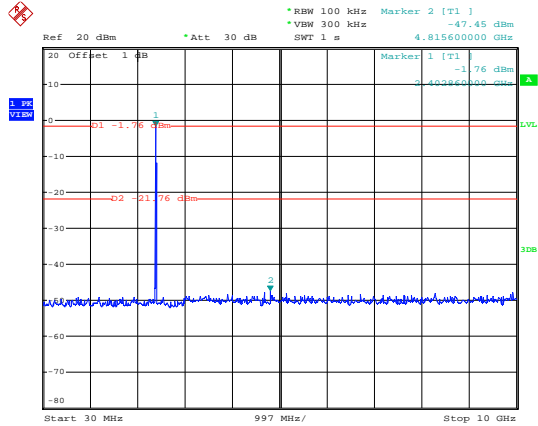
6.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2009 and KDB558074
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:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Test plot as follows:

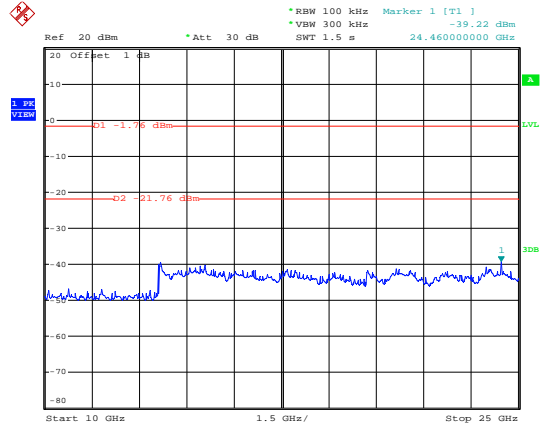
Test mode:802.11b

Lowest channel



Date: 16.NOV.2011 08:33:34

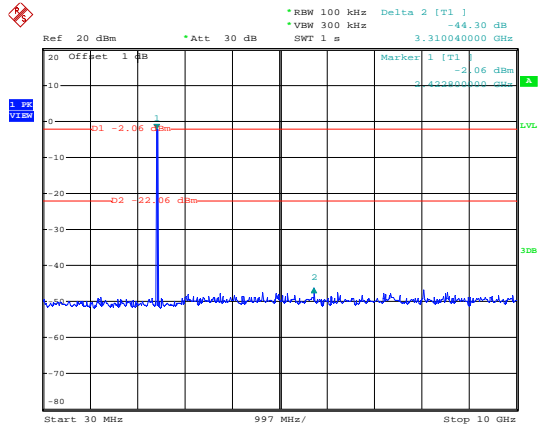
30MHz~10GHz



Date: 16.NOV.2011 08:34:20

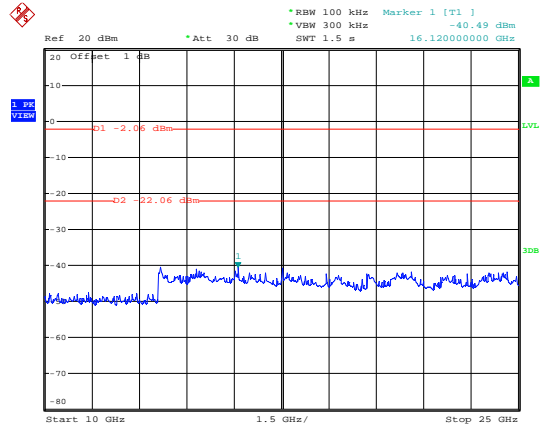
10GHz~25GHz

Middle channel



Date: 16.NOV.2011 08:41:55

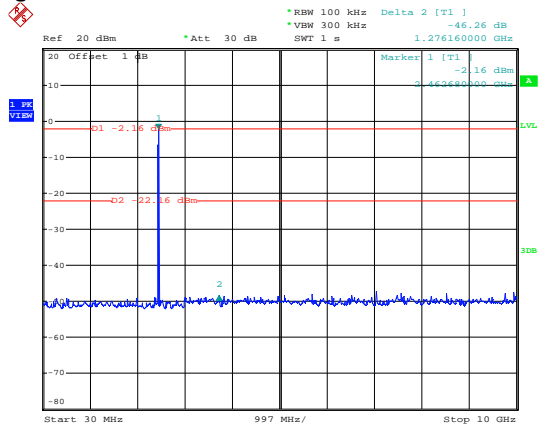
30MHz~10GHz



Date: 16.NOV.2011 08:42:30

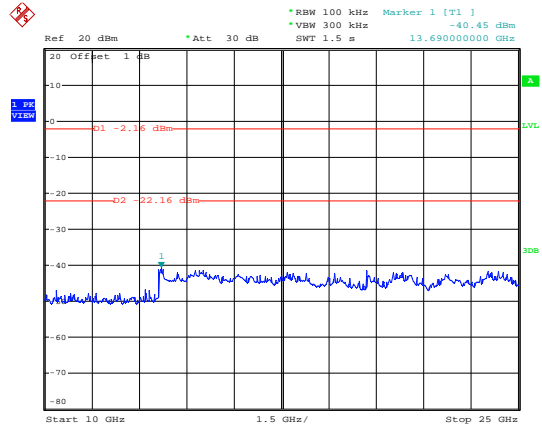
10GHz~25GHz

Highest channel



Date: 16.NOV.2011 08:47:04

30MHz~10GHz

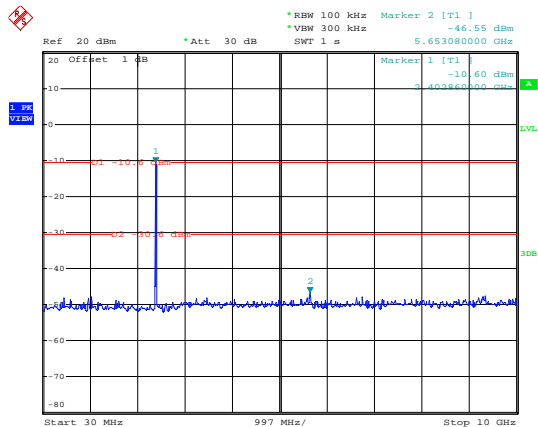


Date: 16.NOV.2011 08:47:27

10GHz~25GHz

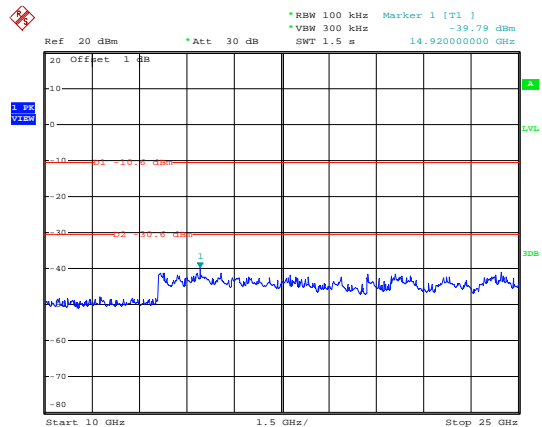
Test mode:802.11g

Lowest channel



Date: 16.NOV.2011 08:59:27

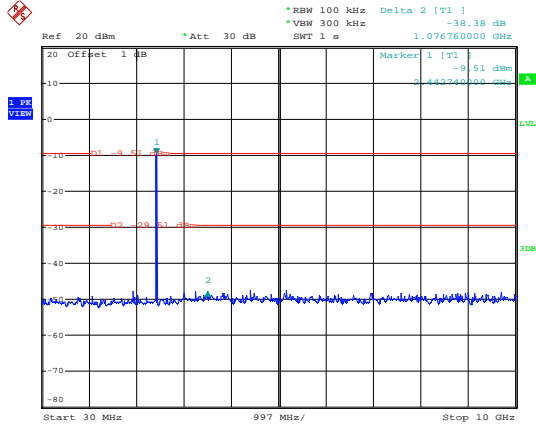
30MHz~10GHz



Date: 16.NOV.2011 09:00:03

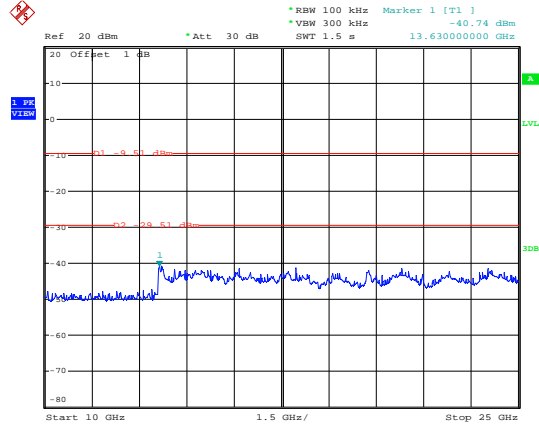
10GHz~25GHz

Middle channel



Date: 16.NOV.2011 09:03:53

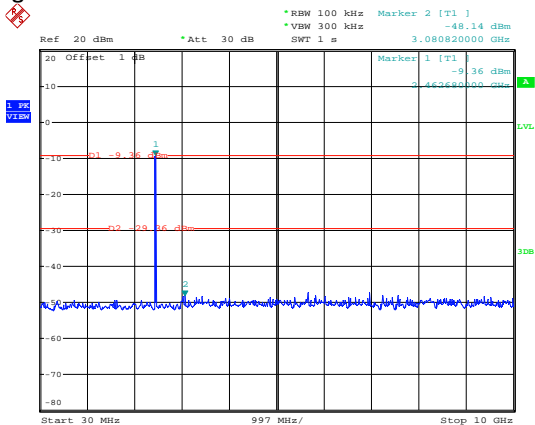
30MHz~10GHz



Date: 16.NOV.2011 09:26:08

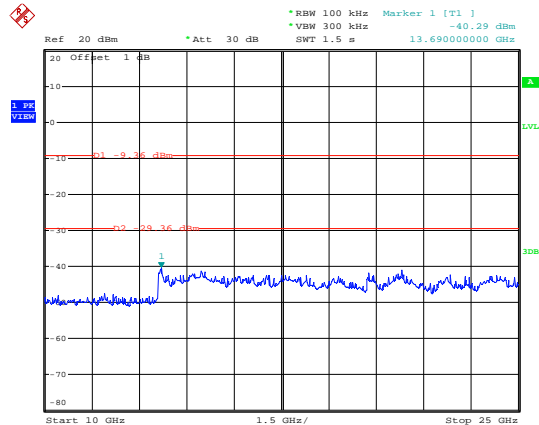
10GHz~25GHz

Highest channel



Date: 16.NOV.2011 09:42:43

30MHz~10GHz

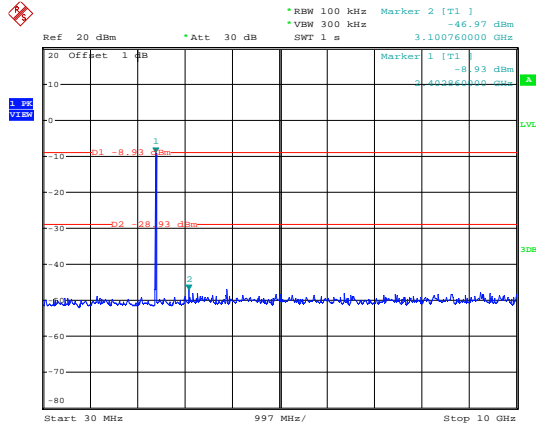


Date: 16.NOV.2011 09:42:57

10GHz~25GHz

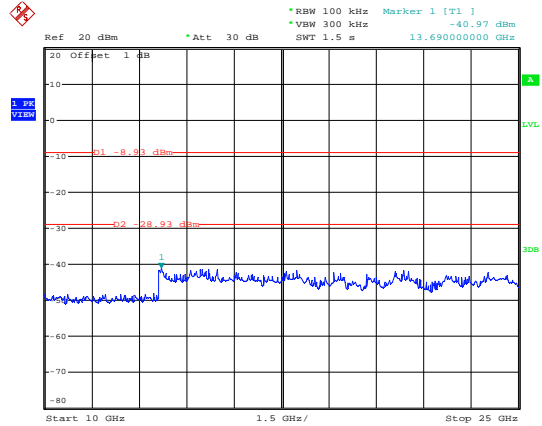
Test mode:802.11n(HT20)

Lowest channel



Date: 16.NOV.2011 09:49:05

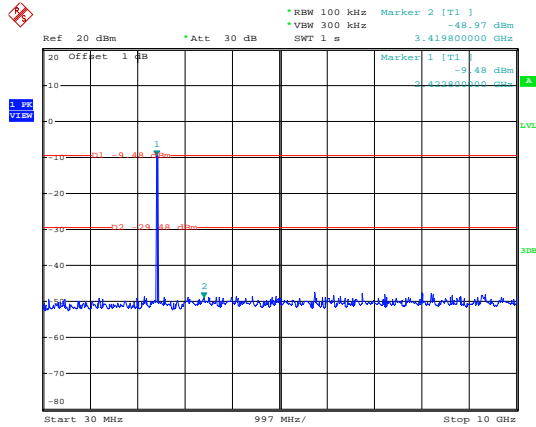
30MHz~10GHz



Date: 16.NOV.2011 09:49:23

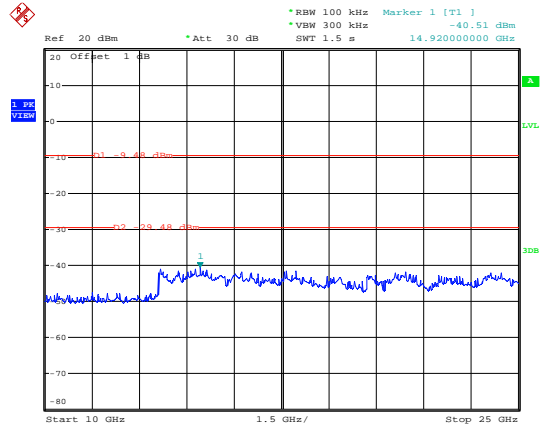
10GHz~25GHz

Middle channel



Date: 16.NOV.2011 09:53:55

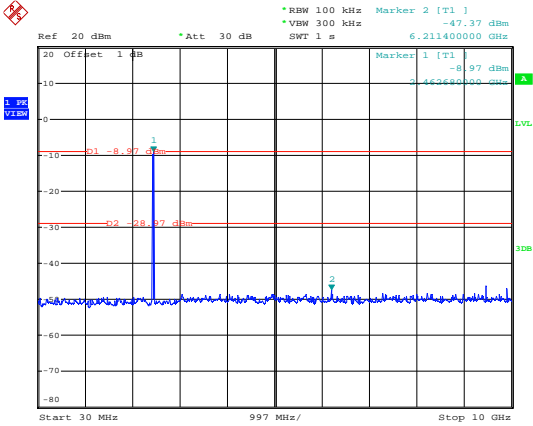
30MHz~10GHz



Date: 16.NOV.2011 09:54:17

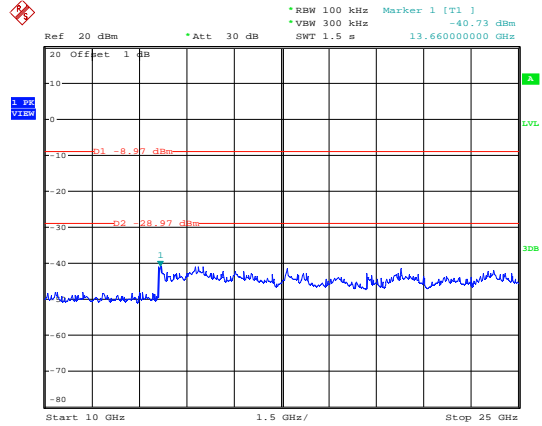
10GHz~25GHz

Highest channel



Date: 16.NOV.2011 10:00:44

30MHz~10GHz

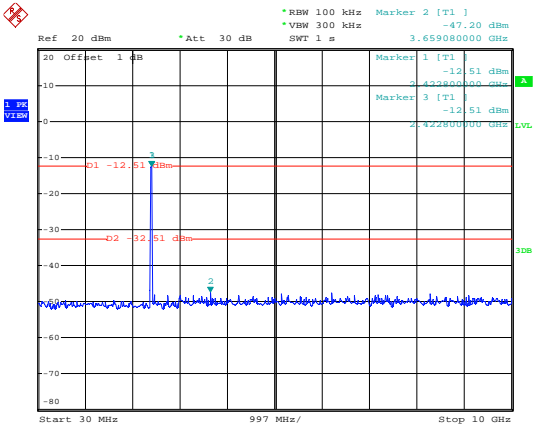


Date: 16.NOV.2011 10:01:01

10GHz~25GHz

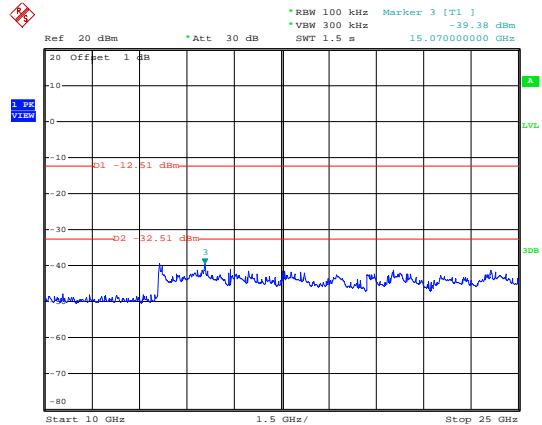
Test mode:802.11n(HT40)

Lowest channel



Date: 16.NOV.2011 10:12:46

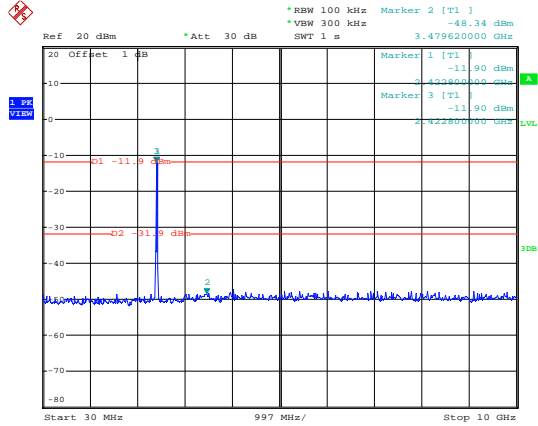
30MHz~10GHz



Date: 16.NOV.2011 10:13:07

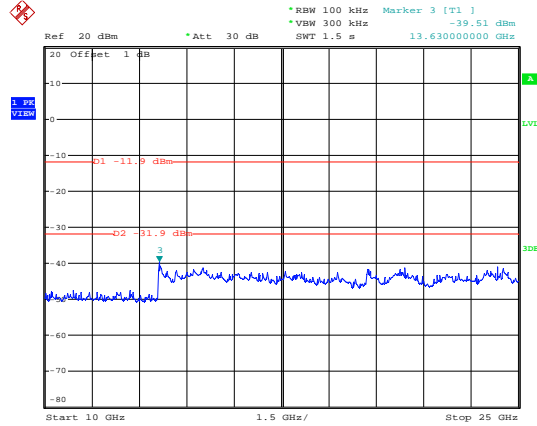
10GHz~25GHz

Middle channel



Date: 16.NOV.2011 10:22:49

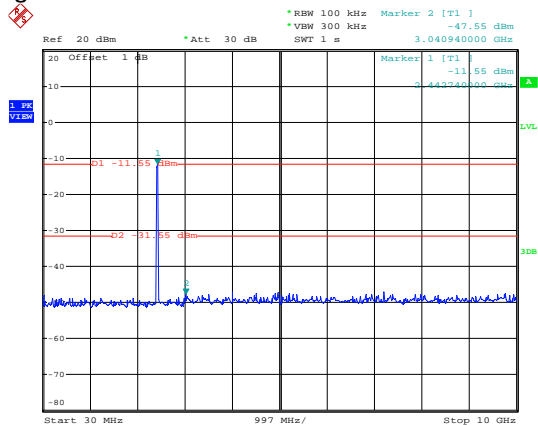
30MHz~10GHz



Date: 16.NOV.2011 10:23:12

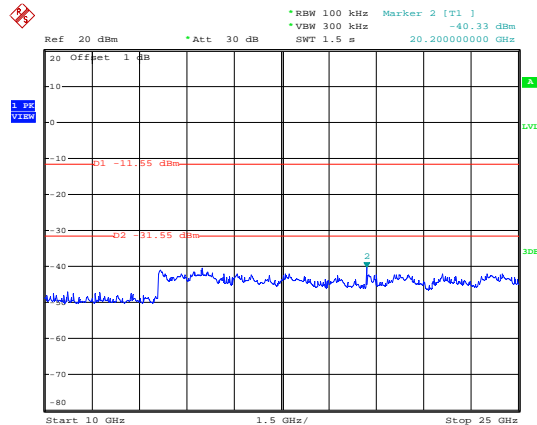
10GHz~25GHz

Highest channel



Date: 16.NOV.2011 10:35:57

30MHz~10GHz

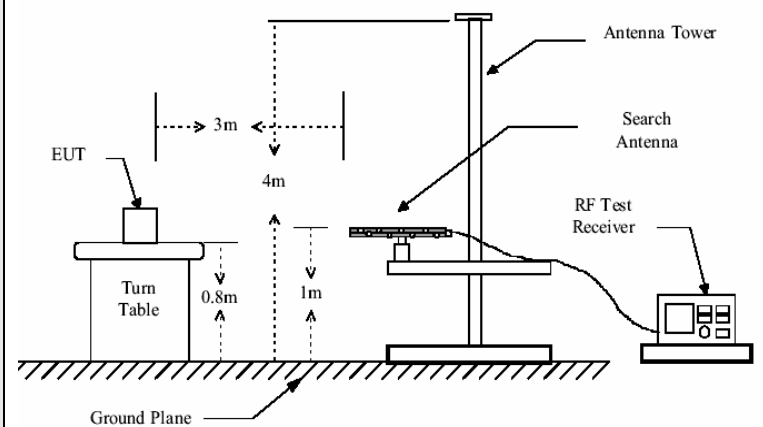
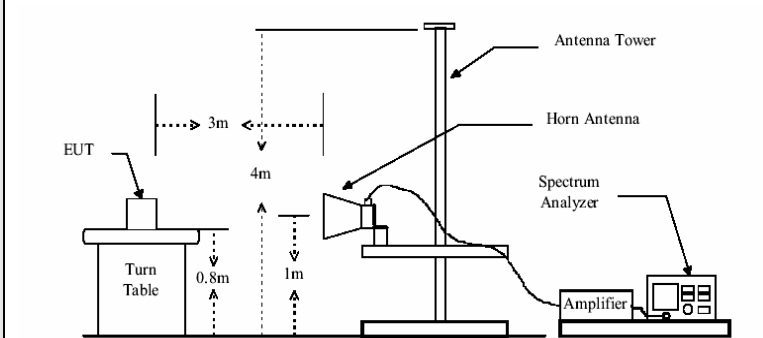


Date: 16.NOV.2011 10:36:20

10GHz~25GHz

6.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205																							
Test Method:	ANSI C63.4:2009																							
Test Frequency Range:	30MHz to 25GHz																							
Test site:	Measurement Distance: 3m																							
Receiver setup:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-1GHz</td> <td>Quasi-peak</td> <td>100KHz</td> <td>300KHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak Value</td> </tr> <tr> <td>Average</td> <td>1MHz</td> <td>10Hz</td> <td>Average Value</td> </tr> </tbody> </table>				Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Average	1MHz	10Hz	Average Value	
	Frequency	Detector	RBW	VBW	Remark																			
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value																			
	Above 1GHz	Peak	1MHz	3MHz	Peak Value																			
Average		1MHz	10Hz	Average Value																				
Limit:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBuV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td> <td>40.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>88MHz-216MHz</td> <td>43.5</td> <td>Quasi-peak Value</td> </tr> <tr> <td>216MHz-960MHz</td> <td>46.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>960MHz-1GHz</td> <td>54.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>54.0</td> <td>Average Value</td> </tr> <tr> <td>74.0</td> <td>Peak Value</td> </tr> </tbody> </table>				Frequency	Limit (dBuV/m @3m)	Remark	30MHz-88MHz	40.0	Quasi-peak Value	88MHz-216MHz	43.5	Quasi-peak Value	216MHz-960MHz	46.0	Quasi-peak Value	960MHz-1GHz	54.0	Quasi-peak Value	Above 1GHz	54.0	Average Value	74.0	Peak Value
	Frequency	Limit (dBuV/m @3m)	Remark																					
	30MHz-88MHz	40.0	Quasi-peak Value																					
	88MHz-216MHz	43.5	Quasi-peak Value																					
	216MHz-960MHz	46.0	Quasi-peak Value																					
	960MHz-1GHz	54.0	Quasi-peak Value																					
Above 1GHz	54.0	Average Value																						
	74.0	Peak Value																						
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.																							
	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, quasi-peak or average method as specified and then reported in a data sheet.																							

<p>Test setup:</p>	<p>Below 1GHz</p>  <p>Above 1GHz</p> 
<p>Test Instruments:</p>	<p>Refer to section 5.7 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.3 for details</p>
<p>Test results:</p>	<p>Passed</p>

Below 1GHz (Worst Case 802.11b mode)

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
33.85	51.23	14.37	0.60	32.27	33.93	40.00	-6.07	Vertical
55.13	42.33	15.84	0.68	31.99	26.86	40.00	-13.14	Vertical
132.40	60.20	10.30	1.34	31.83	40.01	43.50	-3.49	Vertical
323.28	59.50	12.71	2.10	32.30	42.01	46.00	-3.99	Vertical
379.03	45.60	14.20	2.26	32.32	29.74	46.00	-16.26	Vertical
664.75	38.70	19.98	2.89	31.64	29.93	46.00	-16.07	Vertical
32.64	48.30	15.88	0.60	32.27	32.51	40.00	-7.49	Horizontal
65.43	40.58	10.66	0.76	31.93	20.07	40.00	-19.93	Horizontal
132.40	60.30	10.52	1.34	31.83	40.33	43.50	-3.17	Horizontal
215.02	58.30	10.82	1.83	32.27	38.68	43.50	-4.82	Horizontal
312.48	48.38	13.09	2.08	32.30	31.25	46.00	-14.75	Horizontal
465.91	44.01	19.45	2.34	31.92	33.88	46.00	-12.12	Horizontal

Above 1GHz

Test mode:	802.11b	Test channel:	Lowest	Remark:	Peak
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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	41.57	31.79	5.34	24.07	54.63	74.00	-19.37	Vertical
7236.00	31.87	36.19	6.88	26.44	48.50	74.00	-25.50	Vertical
9648.00	31.14	38.07	8.96	25.36	52.81	74.00	-21.19	Vertical
12060.00	29.66	39.05	10.35	25.15	53.91	74.00	-20.09	Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	43.21	31.79	5.34	24.07	56.27	74.00	-17.73	Horizontal
7236.00	33.36	36.19	6.88	26.44	49.99	74.00	-24.01	Horizontal
9648.00	32.48	38.07	8.96	25.36	54.15	74.00	-19.85	Horizontal
12060.00	30.85	39.05	10.35	25.15	55.10	74.00	-18.90	Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Test mode:	802.11b	Test channel:	Lowest	Remark:	Average
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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	22.82	31.79	5.34	24.07	35.88	54.00	-18.12	Vertical
7236.00	16.90	36.19	6.88	26.44	33.53	54.00	-20.47	Vertical
9648.00	15.65	38.07	8.96	25.36	37.32	54.00	-16.68	Vertical
12060.00	14.34	39.05	10.35	25.15	38.59	54.00	-15.41	Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	24.43	31.79	5.34	24.07	37.49	54.00	-16.51	Horizontal
7236.00	18.36	36.19	6.88	26.44	34.99	54.00	-19.01	Horizontal
9648.00	16.96	38.07	8.96	25.36	38.63	54.00	-15.37	Horizontal
12060.00	15.50	39.05	10.35	25.15	39.75	54.00	-14.25	Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “*”, means this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:	802.11b	Test channel:	Middle	Remark:	Peak
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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	41.86	31.85	5.40	24.01	55.10	74.00	-18.90	Vertical
7311.00	29.56	36.37	6.90	26.58	46.25	74.00	-27.75	Vertical
9688.00	29.67	38.13	8.98	25.34	51.44	74.00	-22.56	Vertical
12185.00	27.58	38.92	10.38	25.04	51.84	74.00	-22.16	Vertical
14682.00	*					74.00		Vertical
17179.00	*					74.00		Vertical
4874.00	44.00	31.85	5.40	24.01	57.24	74.00	-16.76	Horizontal
7311.00	31.59	36.37	6.90	26.58	48.28	74.00	-25.72	Horizontal
9688.00	31.59	38.13	8.98	25.34	53.36	74.00	-20.64	Horizontal
12185.00	29.39	38.92	10.38	25.04	53.65	74.00	-20.35	Horizontal
14682.00	*					74.00		Horizontal
17179.00	*					74.00		Horizontal

Test mode:	802.11b	Test channel:	Middle	Remark:	Average
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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	24.24	31.85	5.40	24.01	37.48	54.00	-16.52	Vertical
7311.00	16.61	36.37	6.90	26.58	33.30	54.00	-20.70	Vertical
9688.00	13.64	38.13	8.98	25.34	35.41	54.00	-18.59	Vertical
12185.00	14.71	38.92	10.38	25.04	38.97	54.00	-15.03	Vertical
14682.00	*					54.00		Vertical
17179.00	*					54.00		Vertical
4874.00	26.28	31.85	5.40	24.01	39.52	54.00	-14.48	Horizontal
7311.00	18.49	36.37	6.90	26.58	35.18	54.00	-18.82	Horizontal
9688.00	15.36	38.13	8.98	25.34	37.13	54.00	-16.87	Horizontal
12185.00	16.27	38.92	10.38	25.04	40.53	54.00	-13.47	Horizontal
14682.00	*					54.00		Horizontal
17179.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “*” means this data is too weak; instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:	802.11b	Test channel:	Highest	Remark:	Peak
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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	38.77	31.89	5.46	23.96	52.16	74.00	-21.84	Vertical
7386.00	31.81	36.49	6.93	26.79	48.44	74.00	-25.56	Vertical
9848.00	28.68	38.24	9.05	25.30	50.67	74.00	-23.33	Vertical
12310.00	28.40	38.83	10.41	24.90	52.74	74.00	-21.26	Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	40.81	31.89	5.46	23.96	54.20	74.00	-19.80	Horizontal
7386.00	33.76	36.49	6.93	26.79	50.39	74.00	-23.61	Horizontal
9848.00	30.54	38.24	9.05	25.30	52.53	74.00	-21.47	Horizontal
12310.00	30.17	38.83	10.41	24.90	54.51	74.00	-19.49	Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Test mode:	802.11b	Test channel:	Highest	Remark:	Average
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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	23.01	31.89	5.46	23.96	36.40	54.00	-17.60	Vertical
7386.00	17.15	36.49	6.93	26.79	33.78	54.00	-20.22	Vertical
9848.00	19.12	38.24	9.05	25.30	41.11	54.00	-12.89	Vertical
12310.00	15.61	38.83	10.41	24.90	39.95	54.00	-14.05	Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	24.97	31.89	5.46	23.96	38.36	54.00	-15.64	Horizontal
7386.00	18.94	36.49	6.93	26.79	35.57	54.00	-18.43	Horizontal
9848.00	20.74	38.24	9.05	25.30	42.73	54.00	-11.27	Horizontal
12310.00	17.06	38.83	10.41	24.90	41.40	54.00	-12.60	Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “*” means this data is too weak; instrument or signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not shown in test report.

Test mode:	802.11g	Test channel:	Lowest	Remark:	Peak
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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	37.63	31.79	5.34	24.07	50.69	74.00	-23.31	Vertical
7236.00	32.52	36.19	6.88	26.44	49.15	74.00	-24.85	Vertical
9648.00	29.86	38.07	8.96	25.36	51.53	74.00	-22.47	Vertical
12060.00	28.45	39.05	10.35	25.15	52.70	74.00	-21.30	Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.04	31.79	5.34	24.07	51.10	74.00	-22.90	Horizontal
7236.00	31.88	36.19	6.88	26.44	48.51	74.00	-25.49	Horizontal
9648.00	30.96	38.07	8.96	25.36	52.63	74.00	-21.37	Horizontal
12060.00	29.29	39.05	10.35	25.15	53.54	74.00	-20.46	Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Test mode:	802.11g	Test channel:	Lowest	Remark:	Average
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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	24.33	31.79	5.34	24.07	37.39	54.00	-16.61	Vertical
7236.00	19.79	36.19	6.88	26.44	36.42	54.00	-17.58	Vertical
9648.00	16.18	38.07	8.96	25.36	37.85	54.00	-16.15	Vertical
12060.00	15.02	39.05	10.35	25.15	39.27	54.00	-14.73	Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	25.94	31.79	5.34	24.07	39.00	54.00	-15.00	Horizontal
7236.00	21.25	36.19	6.88	26.44	37.88	54.00	-16.12	Horizontal
9648.00	17.49	38.07	8.96	25.36	39.16	54.00	-14.84	Horizontal
12060.00	16.18	39.05	10.35	25.15	40.43	54.00	-13.57	Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. "*" means this data is too weak; instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:		802.11g		Test channel:		Middle		Remark:		Peak
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	36.54	31.85	5.40	24.01	49.78	74.00	-24.22	Vertical		
7311.00	29.65	36.37	6.90	26.58	46.34	74.00	-27.66	Vertical		
9688.00	26.79	38.13	8.98	25.34	48.56	74.00	-25.44	Vertical		
12185.00	27.73	38.92	10.38	25.04	51.99	74.00	-22.01	Vertical		
14472.00	*					74.00		Vertical		
16884.00	*					74.00		Vertical		
4874.00	38.67	31.85	5.40	24.01	51.91	74.00	-22.09	Horizontal		
7311.00	30.98	36.37	6.90	26.58	47.67	74.00	-26.33	Horizontal		
9688.00	26.93	38.13	8.98	25.34	48.70	74.00	-25.30	Horizontal		
12185.00	27.68	38.92	10.38	25.04	51.94	74.00	-22.06	Horizontal		
14472.00	*					74.00		Horizontal		
16884.00	*					74.00		Horizontal		

Test mode:		802.11g		Test channel:		Middle		Remark:		Average
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	22.85	31.85	5.40	24.01	36.09	54.00	-17.91	Vertical		
7311.00	19.36	36.37	6.90	26.58	36.05	54.00	-17.95	Vertical		
9688.00	15.61	38.13	8.98	25.34	37.38	54.00	-16.62	Vertical		
12185.00	14.48	38.92	10.38	25.04	38.74	54.00	-15.26	Vertical		
14472.00	*					54.00		Vertical		
16884.00	*					54.00		Vertical		
4874.00	24.89	31.85	5.40	24.01	38.13	54.00	-15.87	Horizontal		
7311.00	21.24	36.37	6.90	26.58	37.93	54.00	-16.07	Horizontal		
9688.00	17.33	38.13	8.98	25.34	39.10	54.00	-14.90	Horizontal		
12185.00	16.04	38.92	10.38	25.04	40.30	54.00	-13.70	Horizontal		
14472.00	*					54.00		Horizontal		
16884.00	*					54.00		Horizontal		

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. "*" means this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:	802.11g		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4924.00	37.12	31.89	5.46	23.96	50.51	74.00	-23.49	Vertical	
7386.00	32.67	36.49	6.93	26.79	49.30	74.00	-24.70	Vertical	
9848.00	30.84	38.24	9.05	25.30	52.83	74.00	-21.17	Vertical	
12310.00	28.17	38.83	10.41	24.90	52.51	74.00	-21.49	Vertical	
14772.00	*					74.00		Vertical	
17234.00	*					74.00		Vertical	
4924.00	39.84	31.89	5.46	23.96	53.23	74.00	-20.77	Horizontal	
7386.00	32.85	36.49	6.93	26.79	49.48	74.00	-24.52	Horizontal	
9848.00	30.74	38.24	9.05	25.30	52.73	74.00	-21.27	Horizontal	
12310.00	27.81	38.83	10.41	24.90	52.15	74.00	-21.85	Horizontal	
14772.00	*					74.00		Horizontal	
17234.00	*					74.00		Horizontal	

Test mode:	802.11g		Test channel:		Highest		Remark:		Average
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	22.22	31.89	5.46	23.96	35.61	54.00	-18.39	Vertical	
7386.00	19.98	36.49	6.93	26.79	36.61	54.00	-17.39	Vertical	
9848.00	17.44	38.24	9.05	25.30	39.43	54.00	-14.57	Vertical	
12310.00	16.00	38.83	10.41	24.90	40.34	54.00	-13.66	Vertical	
14772.00	*					54.00		Vertical	
17234.00	*					54.00		Vertical	
4924.00	24.18	31.89	5.46	23.96	37.57	54.00	-16.43	Horizontal	
7386.00	21.77	36.49	6.93	26.79	38.40	54.00	-15.60	Horizontal	
9848.00	19.06	38.24	9.05	25.30	41.05	54.00	-12.95	Horizontal	
12310.00	17.45	38.83	10.41	24.90	41.79	54.00	-12.21	Horizontal	
14772.00	*					54.00		Horizontal	
17234.00	*					54.00		Horizontal	

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. "*" means this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:		802.11n(HT20)		Test channel:		Lowest		Remark:		Peak
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	35.40	31.79	5.34	24.07	48.46	74.00	-25.54	Vertical		
7236.00	30.82	36.19	6.88	26.44	47.45	74.00	-26.55	Vertical		
9648.00	30.13	38.07	8.96	25.36	51.80	74.00	-22.20	Vertical		
12060.00	28.69	39.05	10.35	25.15	52.94	74.00	-21.06	Vertical		
14472.00	*					74.00		Vertical		
16884.00	*					74.00		Vertical		
4824.00	37.01	31.79	5.34	24.07	50.07	74.00	-23.93	Horizontal		
7236.00	32.28	36.19	6.88	26.44	48.91	74.00	-25.09	Horizontal		
9648.00	31.44	38.07	8.96	25.36	53.11	74.00	-20.89	Horizontal		
12060.00	29.85	39.05	10.35	25.15	54.10	74.00	-19.90	Horizontal		
14472.00	*					74.00		Horizontal		
16884.00	*					74.00		Horizontal		

Test mode:		802.11n(HT20)		Test channel:		Lowest		Remark:		Average
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	24.26	31.79	5.34	24.07	37.32	54.00	-16.68	Vertical		
7236.00	22.02	36.19	6.88	26.44	38.65	54.00	-15.35	Vertical		
9648.00	18.67	38.07	8.96	25.36	40.34	54.00	-13.66	Vertical		
12060.00	16.03	39.05	10.35	25.15	40.28	54.00	-13.72	Vertical		
14472.00	*					54.00		Vertical		
16884.00	*					54.00		Vertical		
4824.00	25.87	31.79	5.34	24.07	38.93	54.00	-15.07	Horizontal		
7236.00	23.48	36.19	6.88	26.44	40.11	54.00	-13.89	Horizontal		
9648.00	19.98	38.07	8.96	25.36	41.65	54.00	-12.35	Horizontal		
12060.00	17.19	39.05	10.35	25.15	41.44	54.00	-12.56	Horizontal		
14472.00	*					54.00		Horizontal		
16884.00	*					54.00		Horizontal		

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “*” means this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:		802.11n(HT20)		Test channel:		Middle		Remark:		Peak
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	35.68	31.85	5.40	24.01	48.92	74.00	-25.08	Vertical		
7311.00	29.26	36.37	6.90	26.58	45.95	74.00	-28.05	Vertical		
9688.00	26.02	38.13	8.98	25.34	47.79	74.00	-26.21	Vertical		
12185.00	26.01	38.92	10.38	25.04	50.27	74.00	-23.73	Vertical		
14472.00	*					74.00		Vertical		
16884.00	*					74.00		Vertical		
4874.00	37.72	31.85	5.40	24.01	50.96	74.00	-23.04	Horizontal		
7311.00	31.14	36.37	6.90	26.58	47.83	74.00	-26.17	Horizontal		
9688.00	27.74	38.13	8.98	25.34	49.51	74.00	-24.49	Horizontal		
12185.00	27.57	38.92	10.38	25.04	51.83	74.00	-22.17	Horizontal		
14472.00	*					74.00		Horizontal		
16884.00	*					74.00		Horizontal		

Test mode:		802.11n(HT20)		Test channel:		Middle		Remark:		Average
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	23.15	31.85	5.40	24.01	36.39	54.00	-17.61	Vertical		
7311.00	21.14	36.37	6.90	26.58	37.83	54.00	-16.17	Vertical		
9688.00	17.87	38.13	8.98	25.34	39.64	54.00	-14.36	Vertical		
12185.00	14.49	38.92	10.38	25.04	38.75	54.00	-15.25	Vertical		
14472.00	*					54.00		Vertical		
16884.00	*					54.00		Vertical		
4874.00	25.19	31.85	5.40	24.01	38.43	54.00	-15.57	Horizontal		
7311.00	23.02	36.37	6.90	26.58	39.71	54.00	-14.29	Horizontal		
9688.00	19.59	38.13	8.98	25.34	41.36	54.00	-12.64	Horizontal		
12185.00	17.55	38.92	10.38	25.04	41.81	54.00	-12.19	Horizontal		
14472.00	*					54.00		Horizontal		
16884.00	*					54.00		Horizontal		

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “*” means this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:	802.11n(HT20)		Test channel:		Highest		Remark:	Peak
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	35.05	31.89	5.46	23.96	48.44	74.00	-25.56	Vertical
7386.00	30.87	36.49	6.93	26.79	47.50	74.00	-26.50	Vertical
9848.00	29.02	38.24	9.05	25.30	51.01	74.00	-22.99	Vertical
12310.00	26.41	38.83	10.41	24.90	50.75	74.00	-23.25	Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	37.21	31.89	5.46	23.96	50.60	74.00	-23.40	Horizontal
7386.00	32.76	36.49	6.93	26.79	49.39	74.00	-24.61	Horizontal
9848.00	30.74	38.24	9.05	25.30	52.73	74.00	-21.27	Horizontal
12310.00	27.96	38.83	10.41	24.90	52.30	74.00	-21.70	Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal

Test mode:	802.11n(HT20)		Test channel:		Highest		Remark:	Average
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	24.39	31.89	5.46	23.96	37.78	54.00	-16.22	Vertical
7386.00	22.09	36.49	6.93	26.79	38.72	54.00	-15.28	Vertical
9848.00	19.16	38.24	9.05	25.30	41.15	54.00	-12.85	Vertical
12310.00	18.24	38.83	10.41	24.90	42.58	54.00	-11.42	Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	26.45	31.89	5.46	23.96	39.84	54.00	-14.16	Horizontal
7386.00	23.98	36.49	6.93	26.79	40.61	54.00	-13.39	Horizontal
9848.00	20.88	38.24	9.05	25.30	42.87	54.00	-11.13	Horizontal
12310.00	19.79	38.83	10.41	24.90	44.13	54.00	-9.87	Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “*” means this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:		802.11n(HT40)		Test channel:		Lowest		Remark:		Peak
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization		
4844.00	36.60	31.79	5.34	24.07	49.66	74.00	-24.34	Vertical		
7266.00	32.92	36.19	6.88	26.44	49.55	74.00	-24.45	Vertical		
9688.00	31.53	38.07	8.96	25.36	53.20	74.00	-20.80	Vertical		
12110.00	30.29	39.05	10.35	25.15	54.54	74.00	-19.46	Vertical		
14532.00	*					74.00		Vertical		
16954.00	*					74.00		Vertical		
4844.00	38.21	31.79	5.34	24.07	51.27	74.00	-22.73	Horizontal		
7266.00	34.38	36.19	6.88	26.44	51.01	74.00	-22.99	Horizontal		
9688.00	32.84	38.07	8.96	25.36	54.51	74.00	-19.49	Horizontal		
12110.00	31.45	39.05	10.35	25.15	55.70	74.00	-18.30	Horizontal		
14532.00	*					74.00		Horizontal		
16954.00	*					74.00		Horizontal		

Test mode:		802.11n(HT40)		Test channel:		Lowest		Remark:		Average
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	25.46	31.79	5.34	24.07	38.52	54.00	-15.48	Vertical		
7266.00	24.12	36.19	6.88	26.44	40.75	54.00	-13.25	Vertical		
9688.00	20.07	38.07	8.96	25.36	41.74	54.00	-12.26	Vertical		
12110.00	17.63	39.05	10.35	25.15	41.88	54.00	-12.12	Vertical		
14532.00	*					54.00		Vertical		
16954.00	*					54.00		Vertical		
4844.00	27.07	31.79	5.34	24.07	40.13	54.00	-13.87	Horizontal		
7266.00	25.58	36.19	6.88	26.44	42.21	54.00	-11.79	Horizontal		
9688.00	21.38	38.07	8.96	25.36	43.05	54.00	-10.95	Horizontal		
12110.00	18.79	39.05	10.35	25.15	43.04	54.00	-10.96	Horizontal		
14532.00	*					54.00		Horizontal		
16954.00	*					54.00		Horizontal		

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. "*" means this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:	802.11n(HT40)		Test channel:		Middle		Remark:	Peak
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	36.88	31.85	5.40	24.01	50.12	74.00	-23.88	Vertical
7311.00	31.36	36.37	6.90	26.58	48.05	74.00	-25.95	Vertical
9688.00	27.42	38.13	8.98	25.34	49.19	74.00	-24.81	Vertical
12185.00	27.61	38.92	10.38	25.04	51.87	74.00	-22.13	Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4874.00	38.92	31.85	5.40	24.01	52.16	74.00	-21.84	Horizontal
7311.00	33.24	36.37	6.90	26.58	49.93	74.00	-24.07	Horizontal
9688.00	29.14	38.13	8.98	25.34	50.91	74.00	-23.09	Horizontal
12185.00	29.17	38.92	10.38	25.04	53.43	74.00	-20.57	Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Test mode:	802.11n(HT40)		Test channel:		Middle		Remark:	Average
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	24.35	31.85	5.40	24.01	37.59	54.00	-16.41	Vertical
7311.00	23.24	36.37	6.90	26.58	39.93	54.00	-14.07	Vertical
9688.00	19.27	38.13	8.98	25.34	41.04	54.00	-12.96	Vertical
12185.00	16.09	38.92	10.38	25.04	40.35	54.00	-13.65	Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4874.00	26.39	31.85	5.40	24.01	39.63	54.00	-14.37	Horizontal
7311.00	25.12	36.37	6.90	26.58	41.81	54.00	-12.19	Horizontal
9688.00	20.99	38.13	8.98	25.34	42.76	54.00	-11.24	Horizontal
12185.00	19.15	38.92	10.38	25.04	43.41	54.00	-10.59	Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. “*” means this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:		802.11n(HT40)		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization		
4904.00	36.25	31.89	5.46	23.96	49.64	74.00	-24.36	Vertical		
7356.00	32.97	36.49	6.93	26.79	49.60	74.00	-24.40	Vertical		
9808.00	30.42	38.24	9.05	25.30	52.41	74.00	-21.59	Vertical		
12260.00	28.01	38.83	10.41	24.90	52.35	74.00	-21.65	Vertical		
14712.00	*					74.00		Vertical		
17164.00	*					74.00		Vertical		
4904.00	38.41	31.89	5.46	23.96	51.80	74.00	-22.20	Horizontal		
7356.00	34.86	36.49	6.93	26.79	51.49	74.00	-22.51	Horizontal		
9808.00	32.14	38.24	9.05	25.30	54.13	74.00	-19.87	Horizontal		
12260.00	29.56	38.83	10.41	24.90	53.90	74.00	-20.10	Horizontal		
14712.00	*					74.00		Horizontal		
17164.00	*					74.00		Horizontal		

Test mode:		802.11n(HT40)		Test channel:		Highest		Remark:		Average
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	25.59	31.89	5.46	23.96	38.98	54.00	-15.02	Vertical		
7356.00	24.19	36.49	6.93	26.79	40.82	54.00	-13.18	Vertical		
9808.00	20.56	38.24	9.05	25.30	42.55	54.00	-11.45	Vertical		
12260.00	19.84	38.83	10.41	24.90	44.18	54.00	-9.82	Vertical		
14712.00	*					54.00		Vertical		
17164.00	*					54.00		Vertical		
4904.00	27.65	31.89	5.46	23.96	41.04	54.00	-12.96	Horizontal		
7356.00	26.08	36.49	6.93	26.79	42.71	54.00	-11.29	Horizontal		
9808.00	22.28	38.24	9.05	25.30	44.27	54.00	-9.73	Horizontal		
12260.00	21.39	38.83	10.41	24.90	45.73	54.00	-8.27	Horizontal		
14712.00	*					54.00		Horizontal		
17164.00	*					54.00		Horizontal		

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. "*" means this data is too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.