

FCC REPORT

Applicant: Azumi S.A

Address of Applicant: Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza,
Piso 16 of. 16-01, Marbella, Ciudad de Panama City, Rep.
Panama

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: Q15

FCC ID: QRP-AZUMIQ15

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

Date of sample receipt: 22 Oct., 2012

Date of Test: 24 Oct., to 8 Nov., 2012

Date of report issued: 8 Nov., 2012

Test Result : PASS *

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

Authorized Signature:

A circular blue ink stamp from China Certification & Inspection Services Co., Ltd. (CCIS) is visible. The stamp contains the text "CHINA CERTIFICATION & INSPECTION SERVICES CO., LTD." around the perimeter and "CCIS" in the center. Overlaid on the stamp is a handwritten signature in blue ink, which appears to be "Bruce Zhang".

Bruce Zhang
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 CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	8 Nov., 2012	Original

Prepared By:

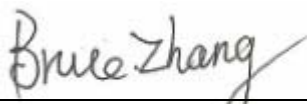


Project Engineer

Date:

8 Nov., 2012

Check By:



Reviewer

Date:

8 Nov., 2012

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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
26/6dB 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:	Azumi S.A
Address of Applicant:	Avenida Aquilino de la Guardia con Calle 47, PH Ocean Plaza, Piso 16 of. 16-01, Marbella, Ciudad de Panama City, Rep. Panama
Manufacturer:	ZECHIN Technology Co., Ltd
Address of Manufacturer:	Unit804,8th Floor Desay Tech Building Gaoxin Road South,Nanshan District Shenzhen,China
Factory:	Longconn Electronics(Shenzhen) Co.,Ltd
Address of Factory:	(Xinchuangji Industrial park) NO. 42,Xingye 1 Road,Phoenix 1st Industrial Zone,Fuyong Town,Baoan District, Shenzhen,518103 ,China

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	Q15
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g/802.11(H20) 7 for 802.11n(H40)
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):	Up to 150Mbps
Antenna Type:	PIFA
Antenna gain:	-4 dBi
AC adapter :	Input:100-240V AC,50/60Hz 0.15A Output:5V DC MAX400mA
Power supply:	Rechargeable Li-ion Battery DC3.7V/630mAh

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:

802.11b/802.11g/802.11n (H20)

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

802.11n (H40)

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:	
Operation mode	Keep the EUT in continuous transmitting with modulation

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(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

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(H20) and 13.5 Mbps for 802.11n(H40). Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Test Facility

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

● FCC —Registration No.: 817957

China Certification & Inspection 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 our files. Registration 817957, February 27, 2012

● Industry Canada (IC)

The 3m Semi-anechoic chamber of China Certification & Inspection Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

5.5 Test Location

All tests were performed at:
China Certification & Inspection Services Co., Ltd. Address: 1st Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China Tel: 0755-23118282 Fax: 0755-23116366

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 (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi- Anechoic Chamber	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	June 09 2012	June 09 2013
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	CCIS0002	N/A	N/A
3	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	June 04 2012	June 04 2013
4	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	May 30 2012	May 30 2013
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
6	Coaxial Cable	CCIS	N/A	CCIS0016	Apr. 01 2012	Apr. 01 2013
7	Coaxial Cable	CCIS	N/A	CCIS0017	Apr. 01 2012	Apr. 01 2013
8	Coaxial cable	CCIS	N/A	CCIS0018	Apr. 01 2012	Apr. 01 2013
9	Coaxial Cable	CCIS	N/A	CCIS0019	Apr. 01 2012	Apr. 01 2013
10	Coaxial Cable	CCIS	N/A	CCIS0087	Apr. 01 2012	Apr. 01 2013
11	Amplifier(10KHz-1.3GHz)	HP	8447D	CCIS0003	Apr. 01 2012	Apr. 01 2013
12	Amplifier(1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	June 09 2012	June 09 2013
13	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2012	Mar. 31 2013
14	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2012	Mar. 29 2013
15	Printer	Hp	HP LaserJet P1007	N/A	N/A	N/A
16	Positioning Controller	UC	UC3000	CCIS0015	N/A	N/A

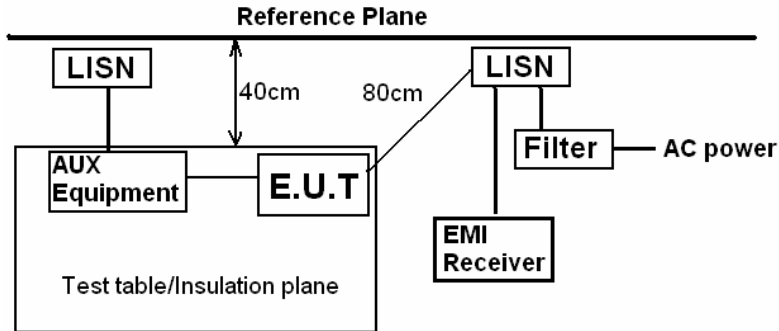
Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2012	June 09 2013
2	EMI Test Receiver	Rohde & Schwarz	ESPI	CCIS0022	Apr 01 2012	Apr 01 2013
3	LISN	CHASE	MN2050D	CCIS0074	Apr 01 2012	Apr 01 2013
4	Coaxial Cable	CCIS	N/A	CCIS0086	Apr. 01 2012	Apr. 01 2013
5	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	June 09 2012	June 09 2013
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

6 Test results and Measurement Data

6.1 Antenna requirement:

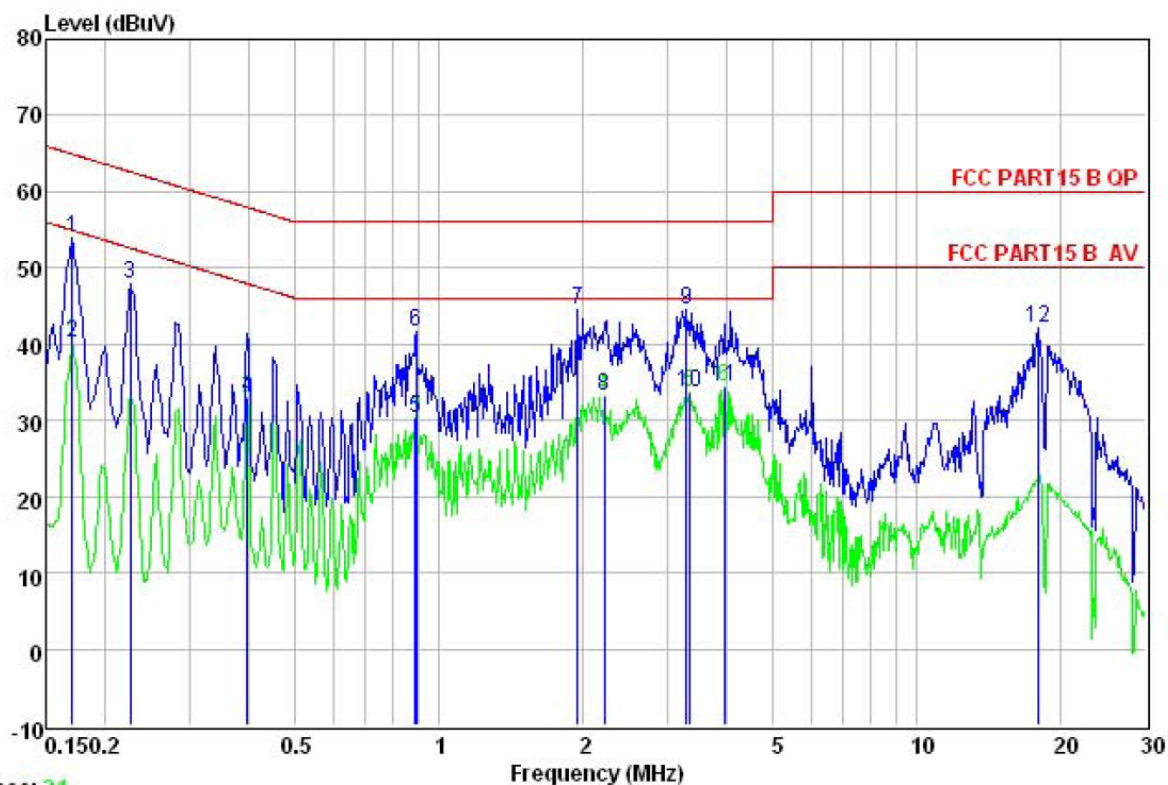
Standard requirement:	FCC Part15 C Section 15.203 /247(c)
<i>15.203 requirement:</i> <i>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that 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> <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>	
E.U.T Antenna:	
<i>The antenna port is an inverted, unconventional port; the best case gain of the antenna is -4 dBi.</i>	
 WIFI Antenna	

6.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.4: 2003		
Test Frequency Range:	150KHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	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
* Decreases with the logarithm of the frequency.			
Test procedure	1. 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. 2. 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). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.		
Test setup:	 Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

Measurement Data

Line:

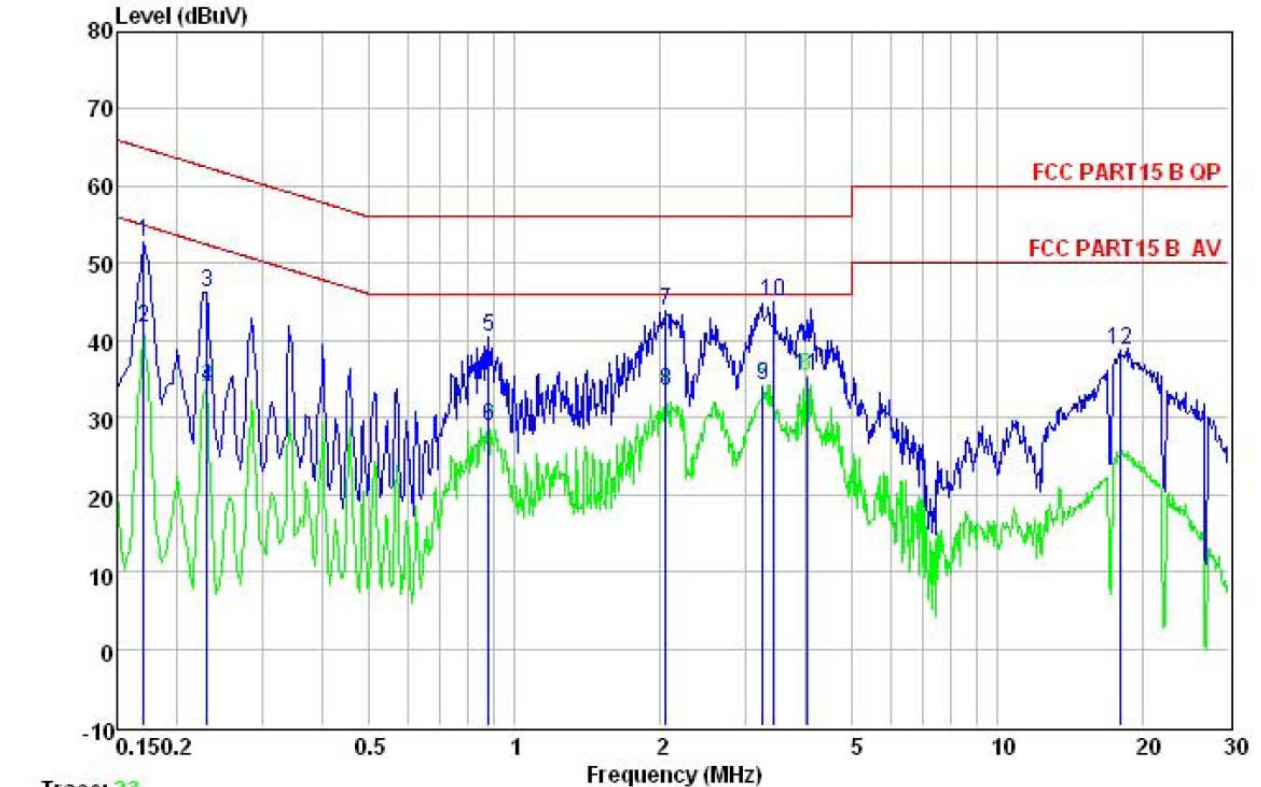


Trace: 21

Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN LINE
 Job NO. : 204RF
 Test Mode : wifi mode
 Test engineer: Joe
 Power Rating: AC 120V/60Hz

	Read	LISN	Cable		Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.170	43.03	10.23	0.78	54.04	64.94	-10.90 QP
2	0.170	29.26	10.23	0.78	40.27	54.94	-14.67 Average
3	0.226	37.00	10.23	0.76	47.99	62.61	-14.62 QP
4	0.396	21.95	10.28	0.72	32.95	47.95	-15.00 Average
5	0.890	19.23	10.20	0.84	30.27	46.00	-15.73 Average
6	0.894	30.63	10.20	0.85	41.68	56.00	-14.32 QP
7	1.949	34.33	10.28	0.02	44.63	56.00	-11.37 QP
8	2.213	21.88	10.28	0.95	33.11	46.00	-12.89 Average
9	3.293	33.44	10.29	0.90	44.63	56.00	-11.37 QP
10	3.328	22.43	10.29	0.90	33.62	46.00	-12.38 Average
11	3.943	23.13	10.29	0.89	34.31	46.00	-11.69 Average
12	17.849	30.85	10.29	0.92	42.06	60.00	-17.94 QP

Neutral:



Trace: 23

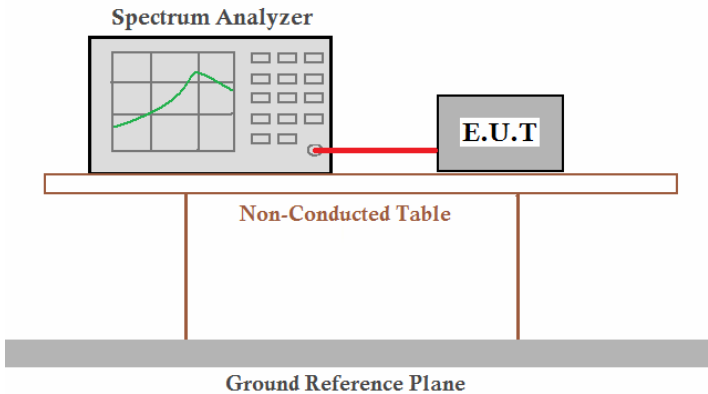
Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN NEUTRAL
 Job NO. : 204RF
 Test Mode : wifi mode
 Test engineer: Joe
 Power Rating: AC 120V/60Hz

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.170	41.79	10.25	0.78	52.82	64.94	-12.12	QP
2	0.170	30.55	10.25	0.78	41.58	54.94	-13.36	Average
3	0.230	35.34	10.23	0.75	46.32	62.44	-16.12	QP
4	0.230	23.04	10.23	0.75	34.02	52.44	-18.42	Average
5	0.880	29.49	10.19	0.84	40.52	56.00	-15.48	QP
6	0.880	17.73	10.19	0.84	28.76	46.00	-17.24	Average
7	2.055	32.48	10.27	0.96	43.71	56.00	-12.29	QP
8	2.055	22.22	10.27	0.96	33.45	46.00	-12.55	Average
9	3.258	22.93	10.28	0.90	34.11	46.00	-11.89	Average
10	3.436	33.84	10.28	0.90	45.02	56.00	-10.98	QP
11	4.006	24.16	10.28	0.89	35.33	46.00	-10.67	Average
12	17.849	27.64	10.30	0.92	38.86	60.00	-21.14	QP

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 Output Power

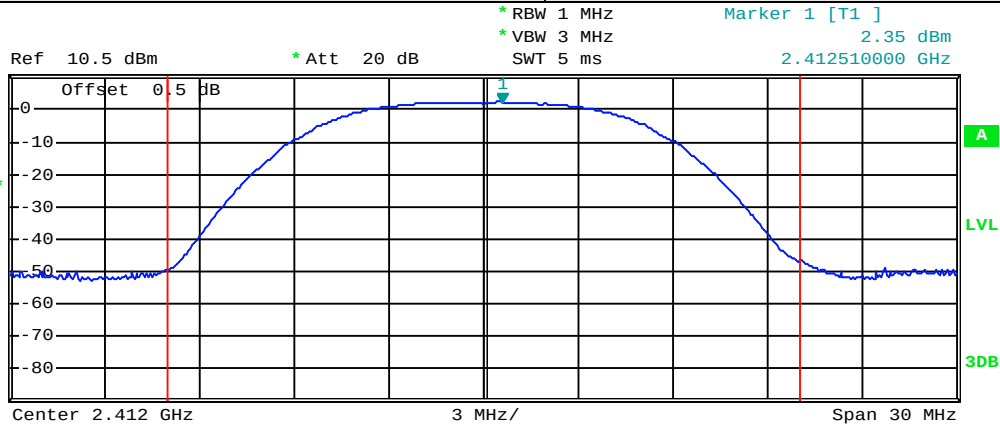
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	Test method refer to KDB558074 V02 (DTS Measure Guidance) section 8.2, option 1.

Measurement Data

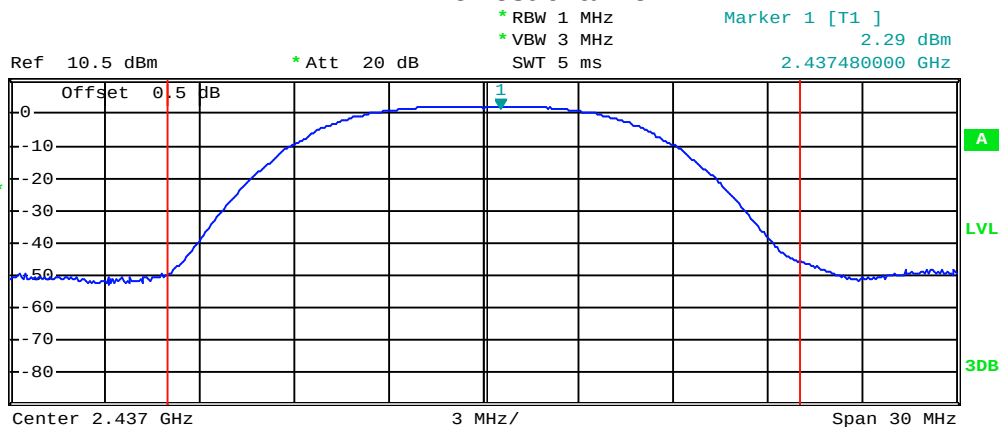
Test CH	Maximum Conducted Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	10.31	9.95	9.86	9.23	30.00	Pass
Middle	10.28	9.65	9.85	9.11		
Highest	10.41	9.57	9.76	9.08		

Test plot as follows:

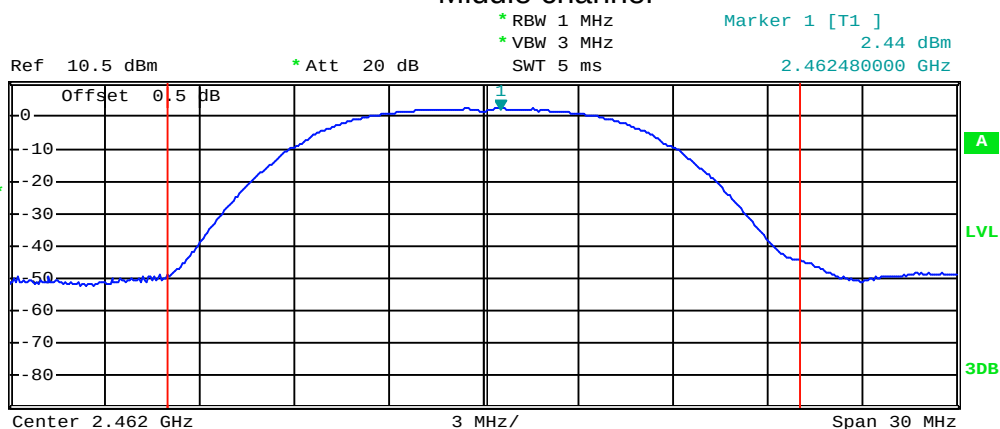
Test mode:	802.11b
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Lowest channel

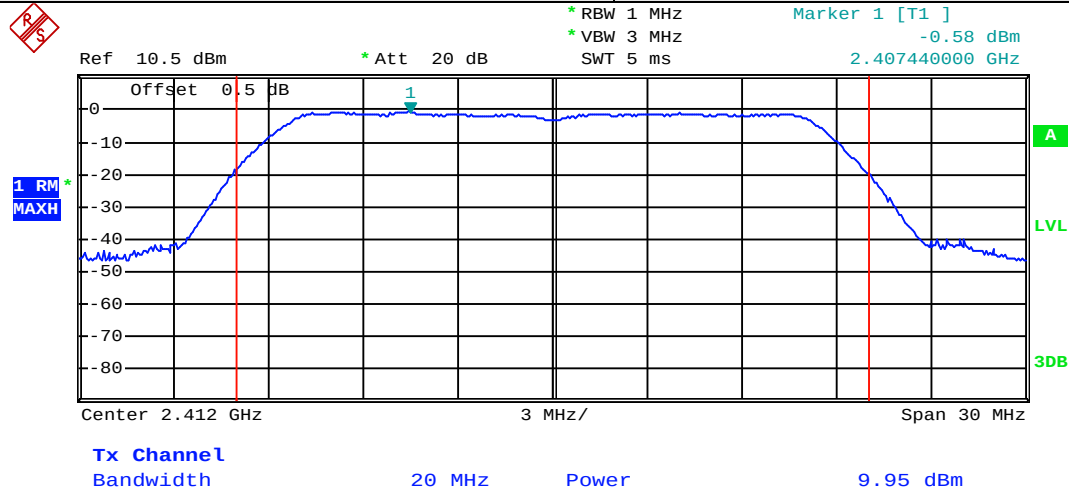


Middle channel

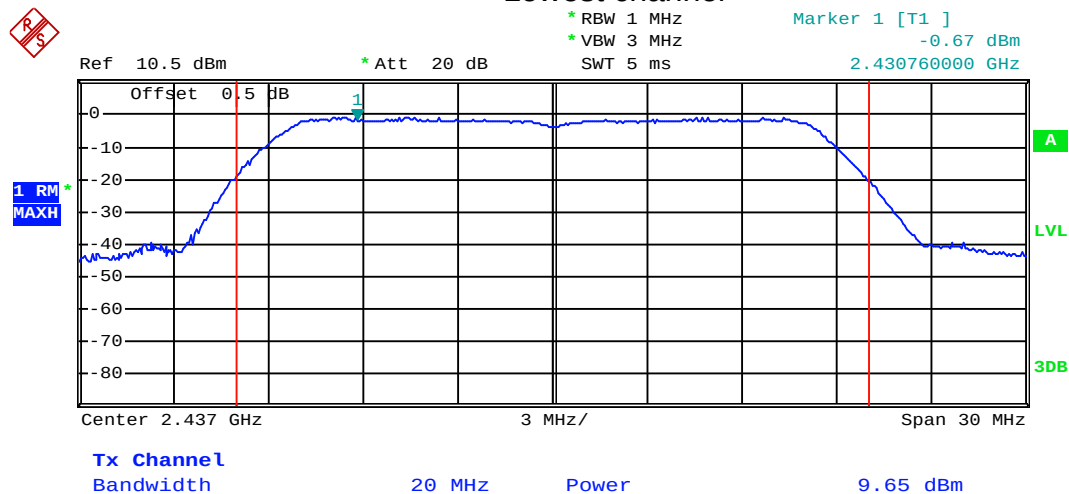


Highest channel

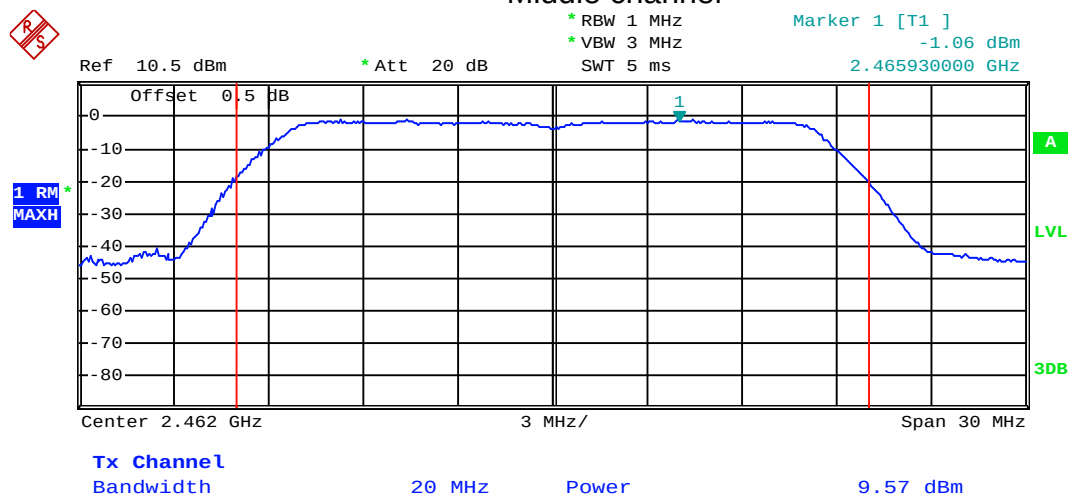
Test mode:	802.11g
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Lowest channel



Middle channel

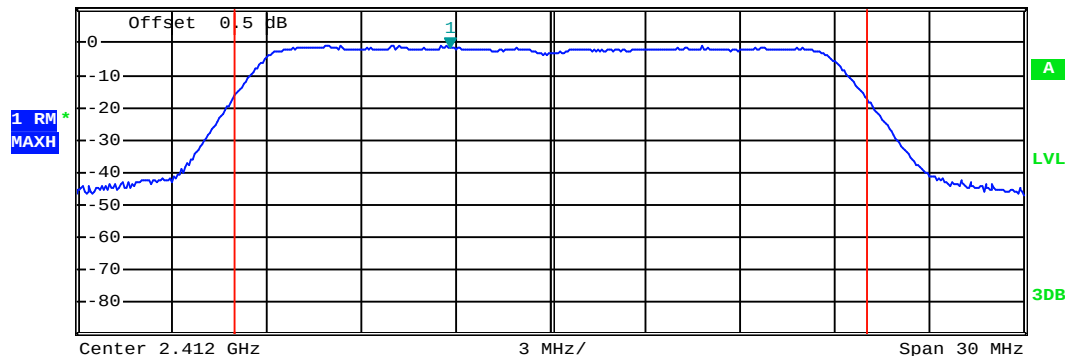


Highest channel

Test mode:	802.11n(H20)
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Ref 10.5 dBm * Att 20 dB RBW 1 MHz Marker 1 [T1] -0.75 dBm
 VBW 3 MHz SWT 5 ms 2.408730000 GHz

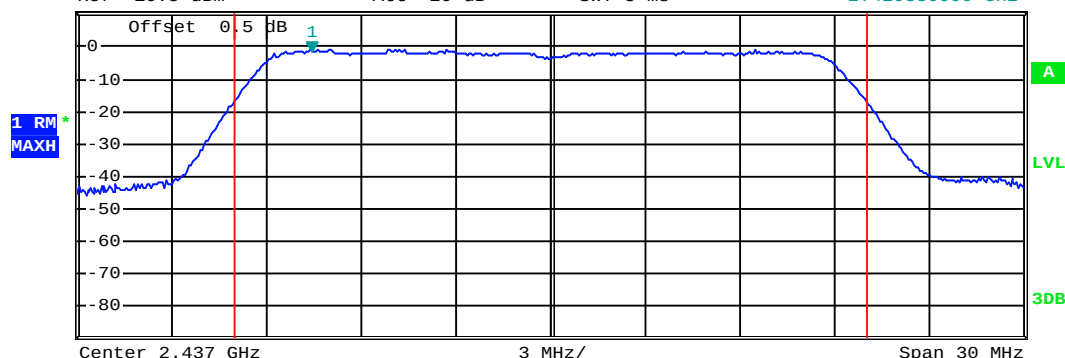


Tx Channel
 Bandwidth 20 MHz Power 9.86 dBm

Lowest channel



Ref 10.5 dBm * Att 20 dB RBW 1 MHz Marker 1 [T1] -1.00 dBm
 VBW 3 MHz SWT 5 ms 2.429380000 GHz

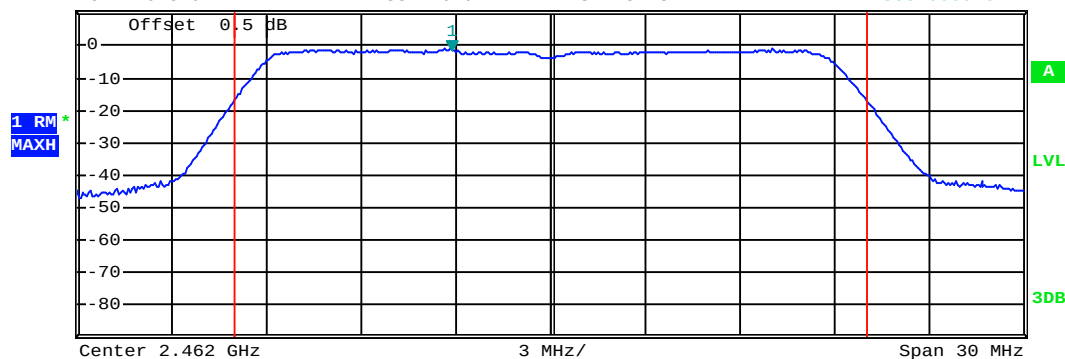


Tx Channel
 Bandwidth 20 MHz Power 9.85 dBm

Middle channel



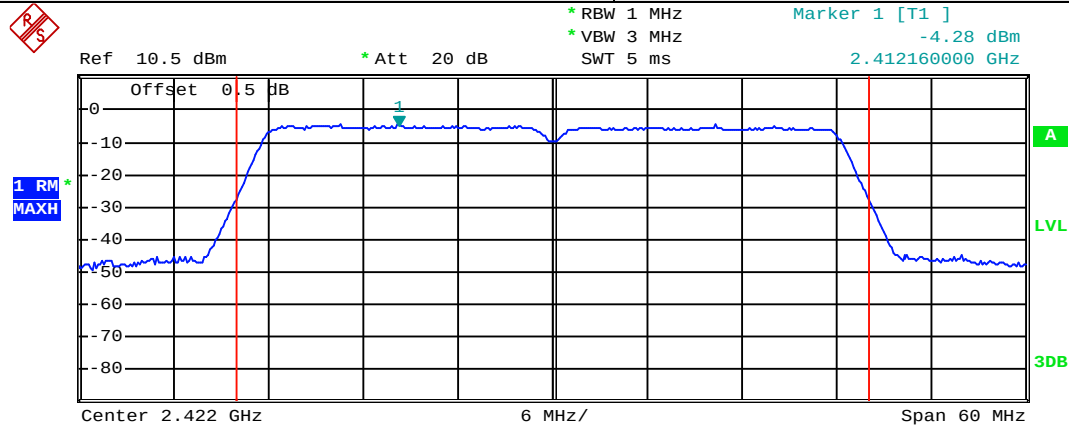
Ref 10.5 dBm * Att 20 dB RBW 1 MHz Marker 1 [T1] -0.94 dBm
 VBW 3 MHz SWT 5 ms 2.458820000 GHz



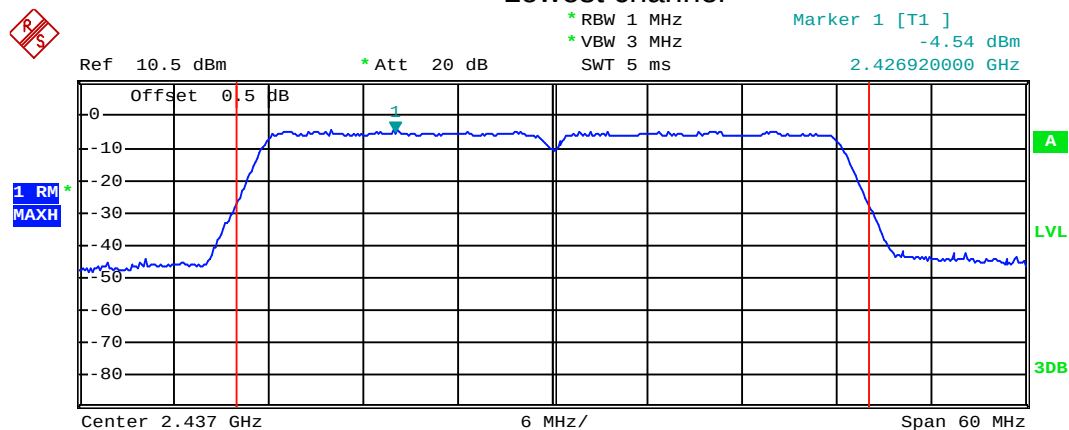
Tx Channel
 Bandwidth 20 MHz Power 9.76 dBm

Highest channel

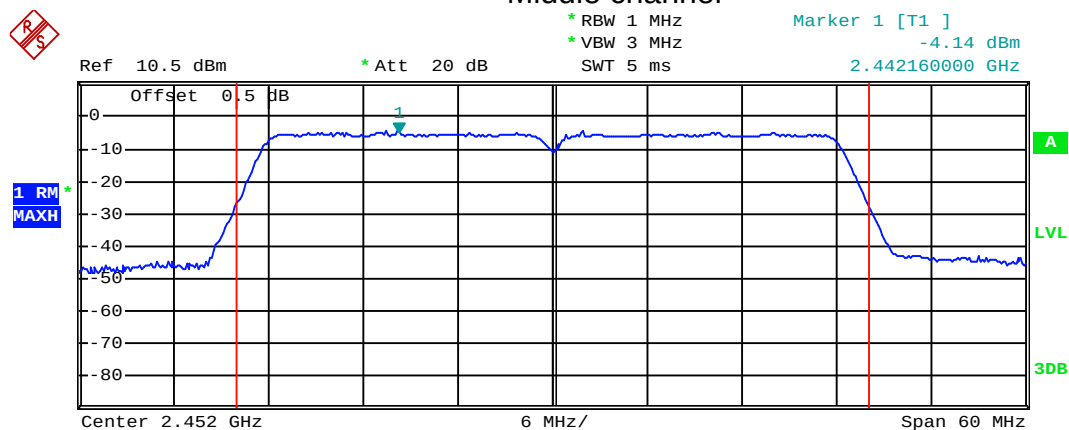
Test mode:	802.11n(H40)
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Lowest channel

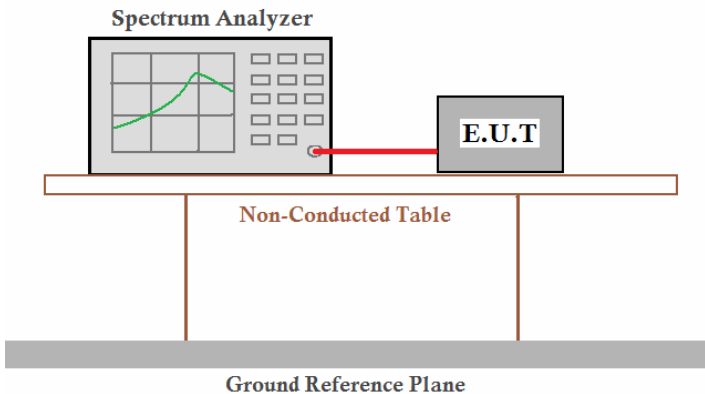


Middle channel



Highest channel

6.4 Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2003 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

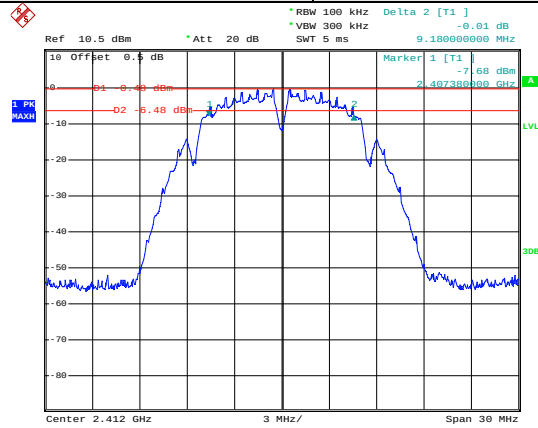
Test CH	6dB Occupy Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	9.18	16.62	17.88	36.60	>500	Pass
Middle	9.18	16.62	17.88	36.66		
Highest	9.18	16.62	17.88	36.60		

Test CH	26dB Emission Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	14.52	19.92	19.80	39.36	N/A	N/A
Middle	14.46	19.86	19.98	39.24		
Highest	14.52	19.80	19.86	39.36		

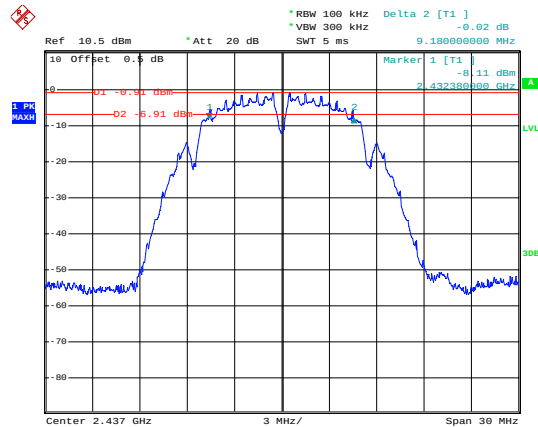
Test plot as follows:

Test mode:6dB BW

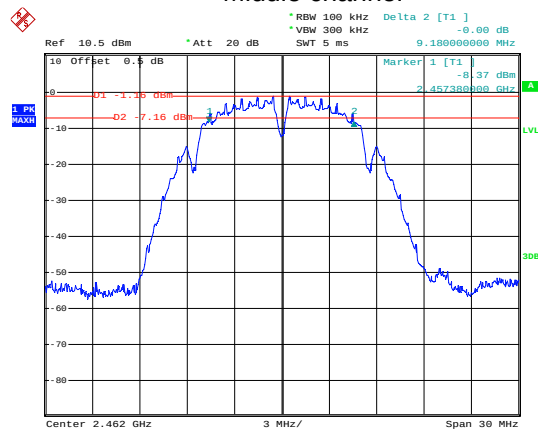
802.11b



Lowest channel



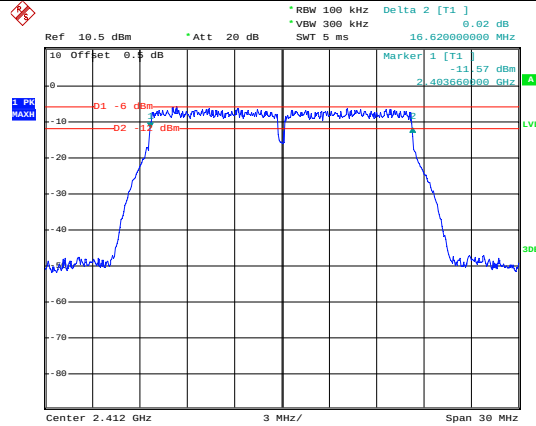
Middle channel



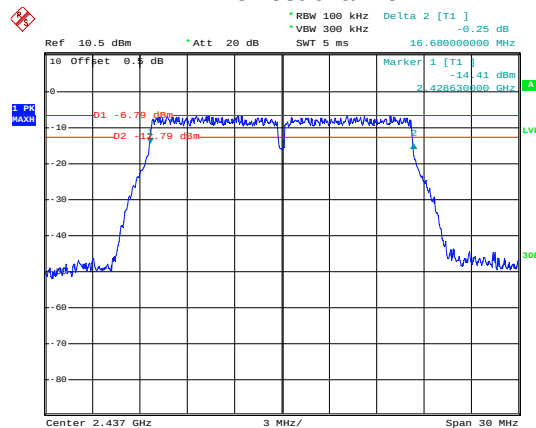
Highest channel

Test mode:6dB BW

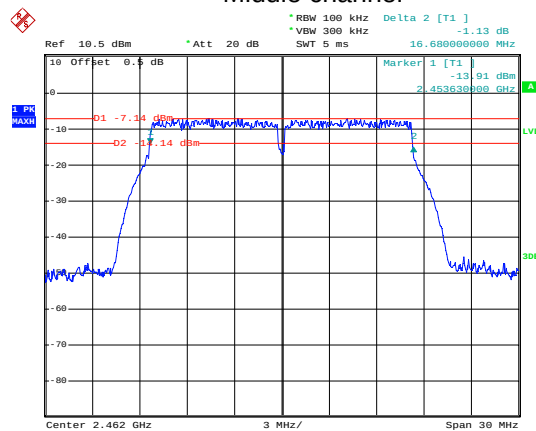
802.11g



Lowest channel



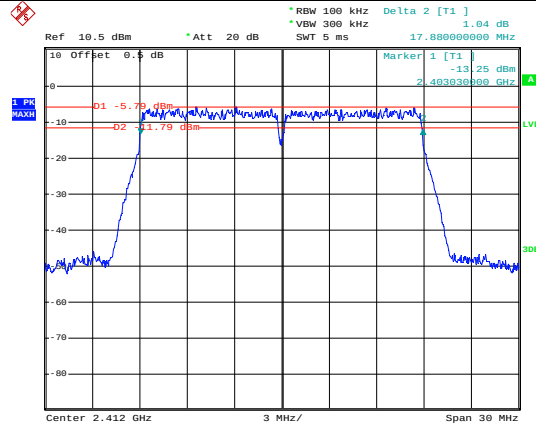
Middle channel



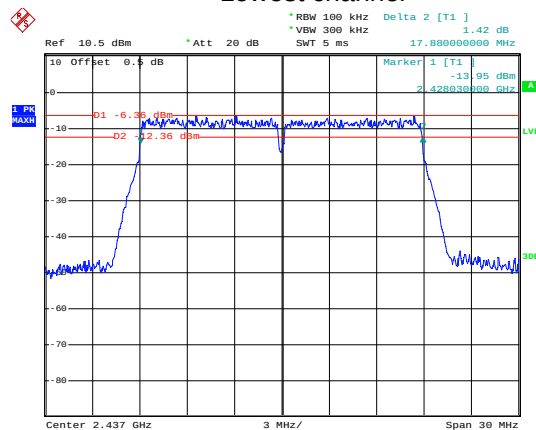
Highest channel

Test mode:6dB BW

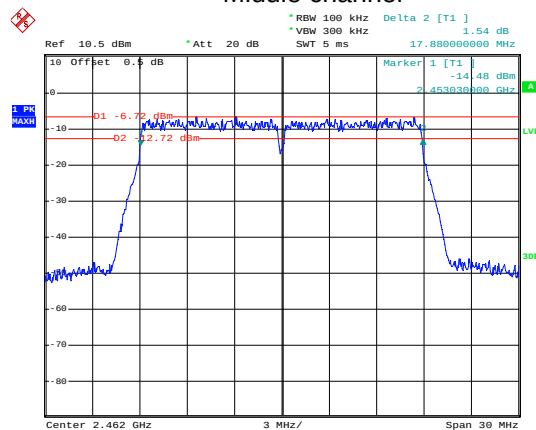
802.11n(H20)



Lowest channel



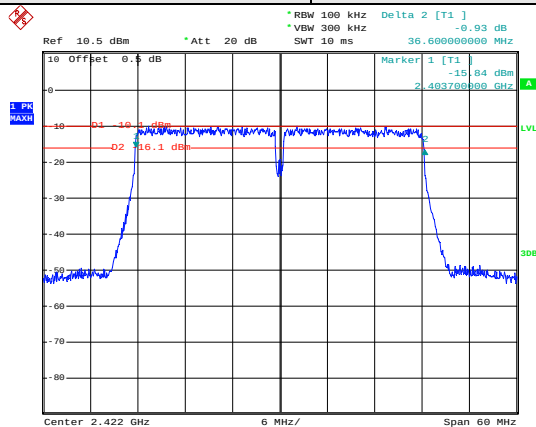
Middle channel



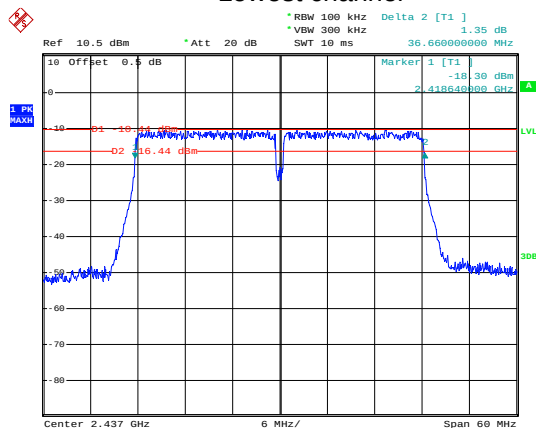
Highest channel

Test mode:6dB BW

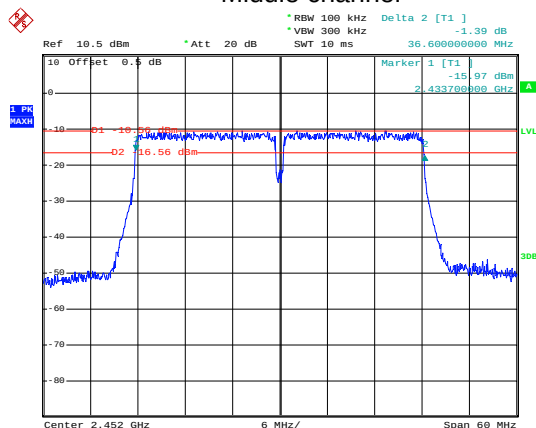
802.11n(H40)



Lowest channel



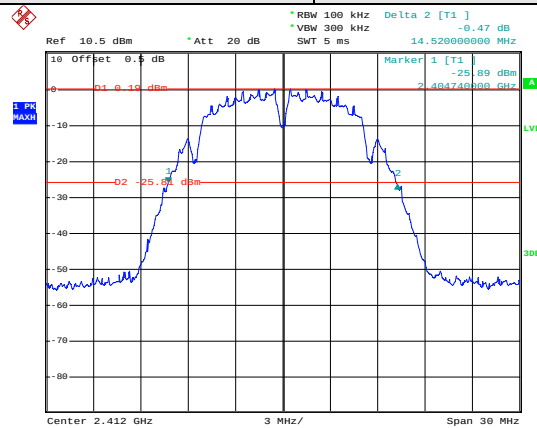
Middle channel



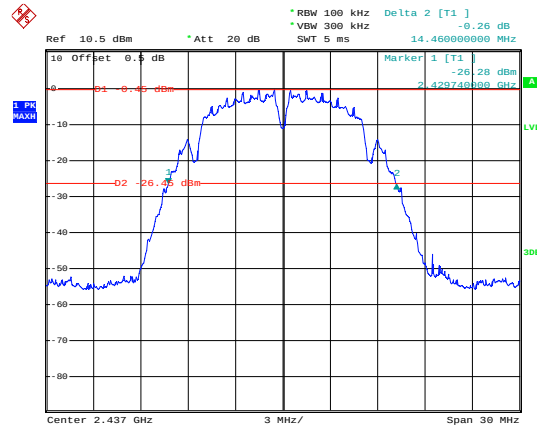
Highest channel

Test mode: 26dB EBW

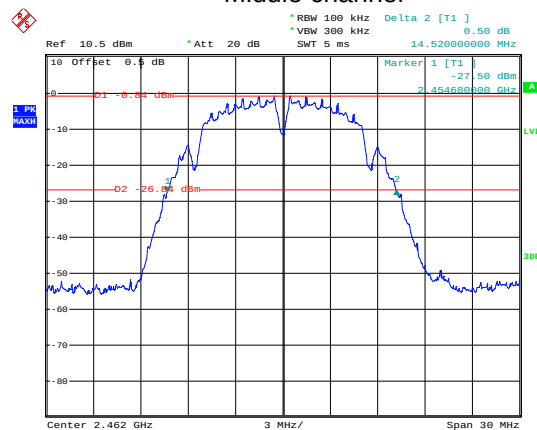
802.11b



Lowest channel



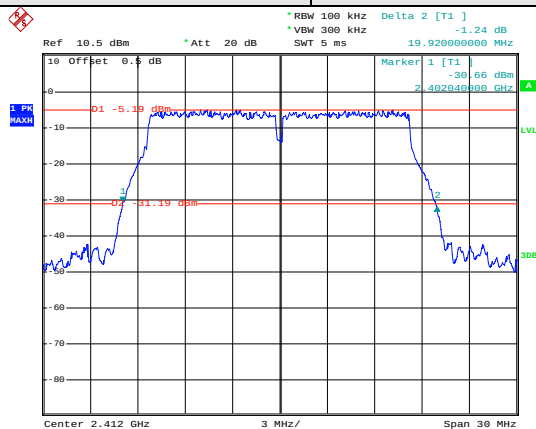
Middle channel



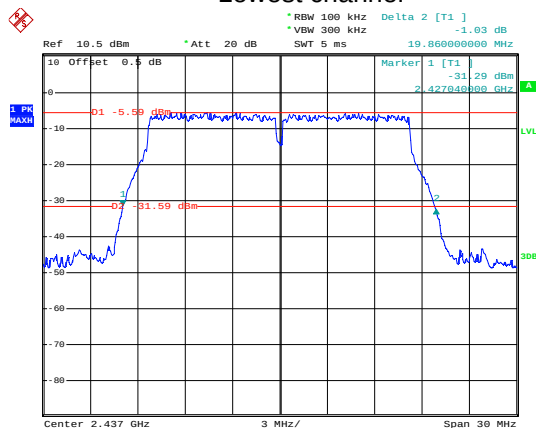
Highest channel

Test mode: 26dB EBW

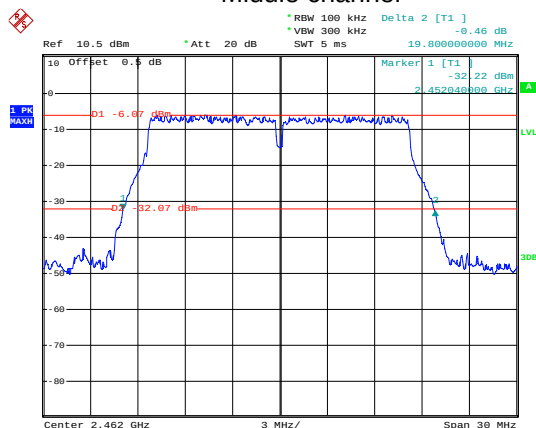
802.11g



Lowest channel



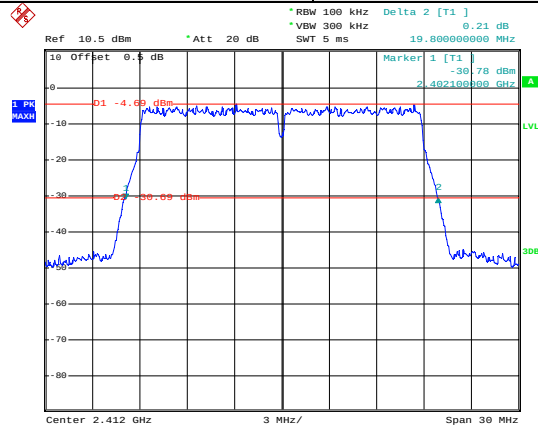
Middle channel



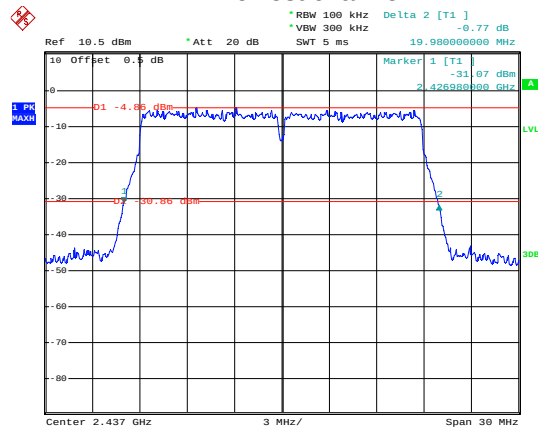
Highest channel

Test mode: 26dB EBW

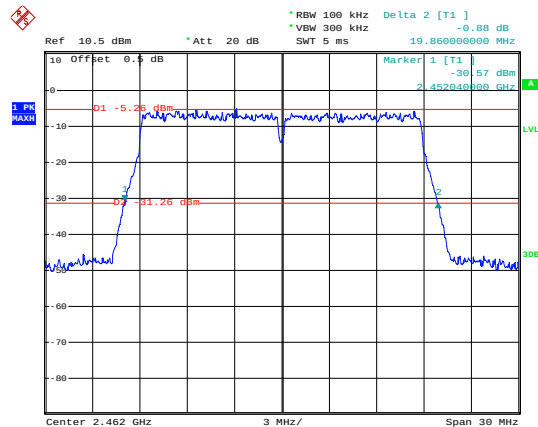
802.11n(H20)



Lowest channel



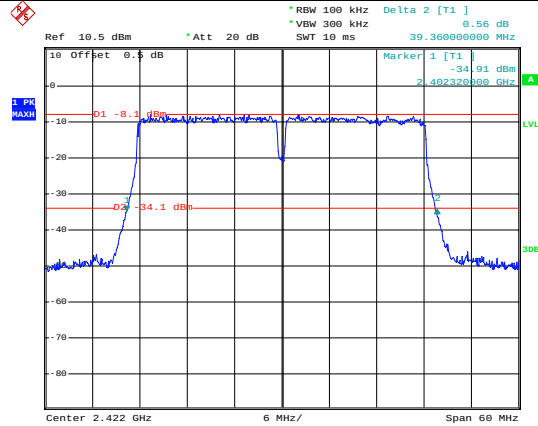
Middle channel



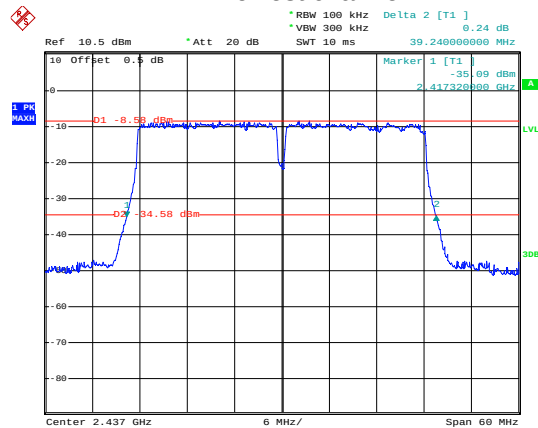
Highest channel

Test mode: 26dB EBW

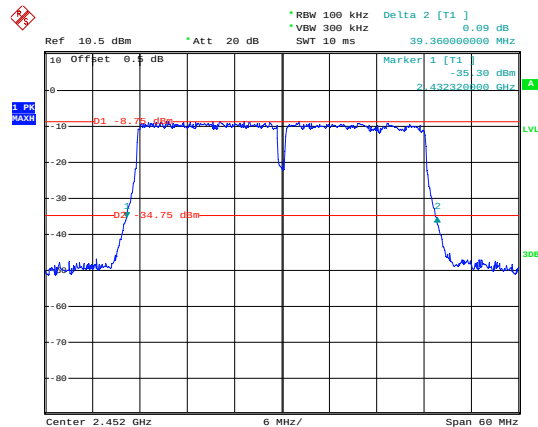
802.11n(H40)



Lowest channel

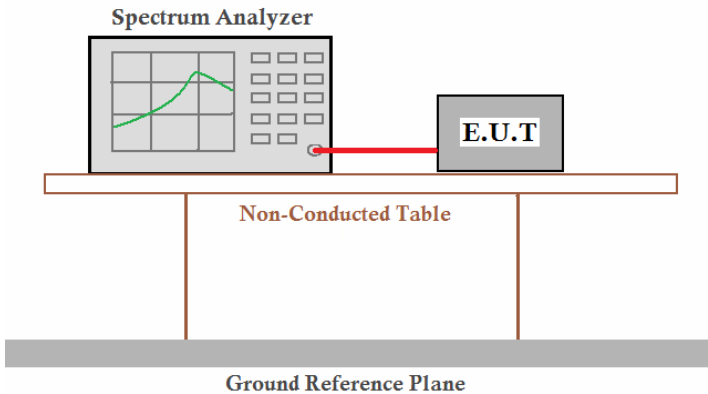


Middle channel



Highest channel

6.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2003 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

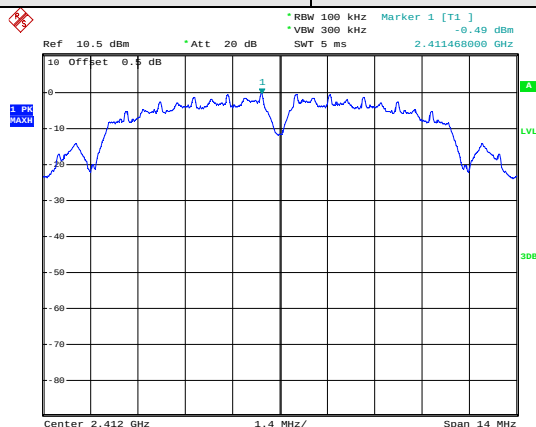
Measurement Data

Test CH	Power Spectral Density (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	-0.49	-6.27	-5.82	-10.21	8.00	Pass
Middle	-1.00	-7.17	-6.39	-10.46		
Highest	-1.16	-7.11	-6.68	-10.58		

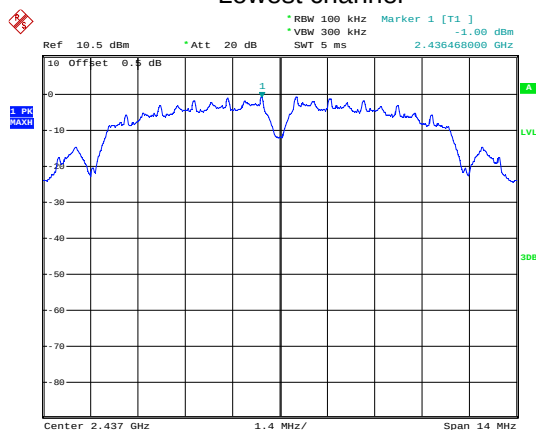
Test plot as follows:

Test mode:

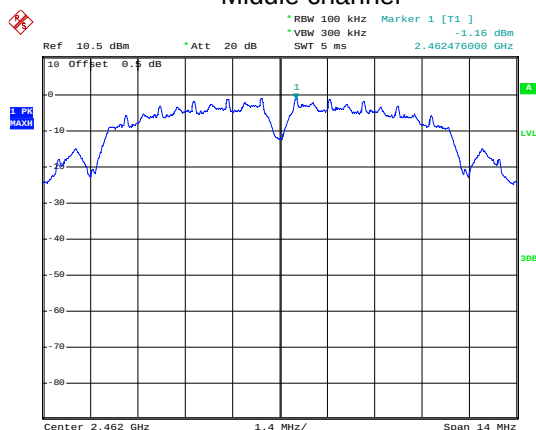
802.11b



Lowest channel



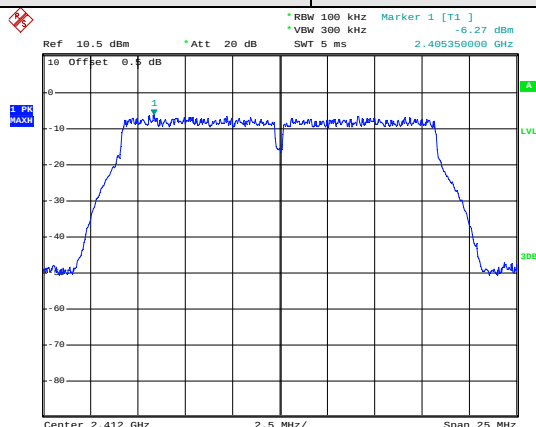
Middle channel



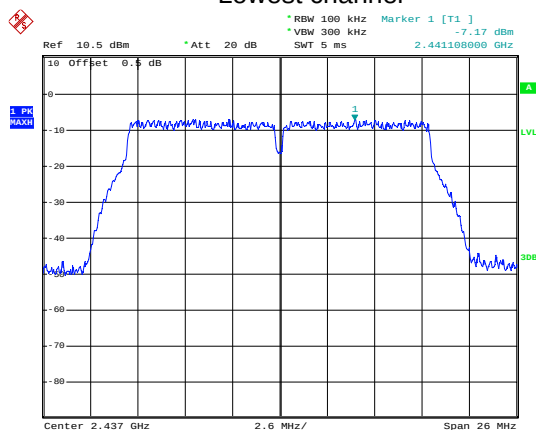
Highest channel

Test mode:

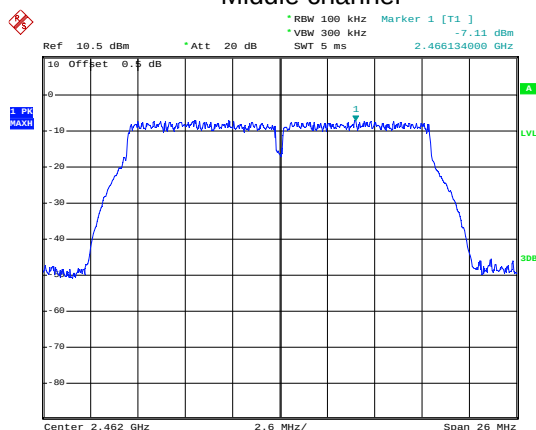
802.11g



Lowest channel



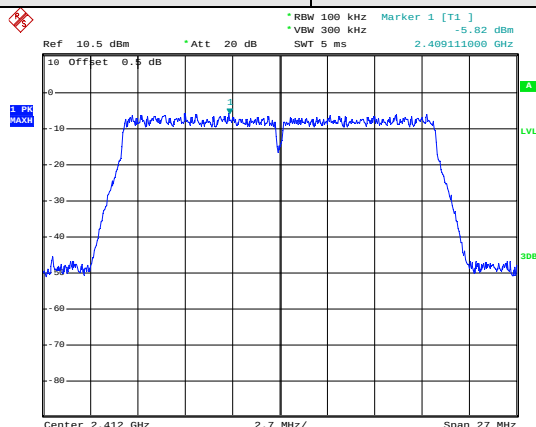
Middle channel



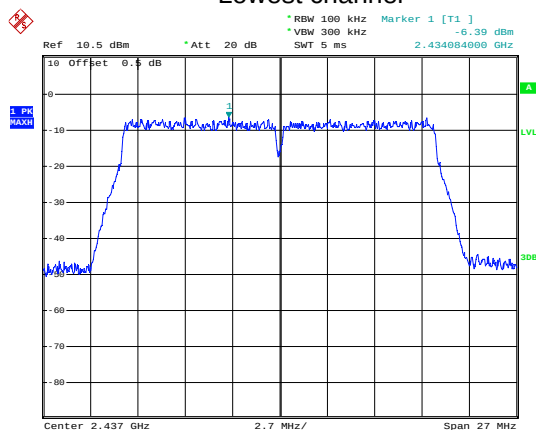
Highest channel

Test mode:

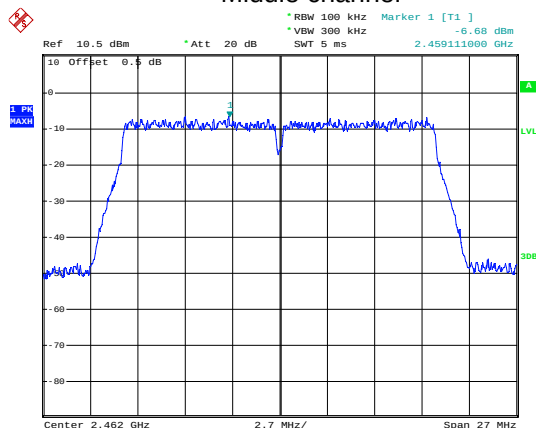
802.11n(H20)



Lowest channel

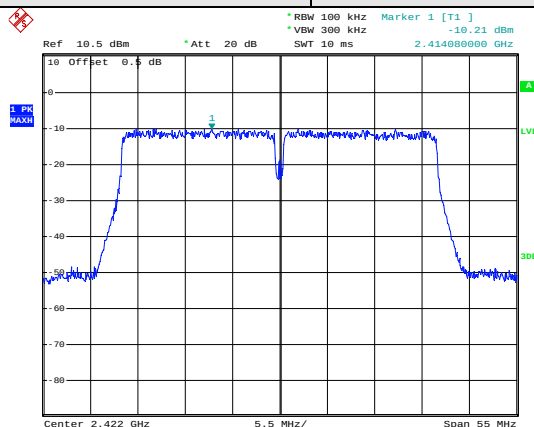


Middle channel



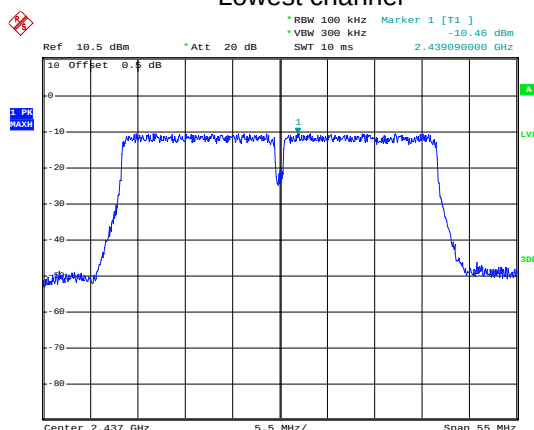
Highest channel

Test mode:	802.11n(H40)
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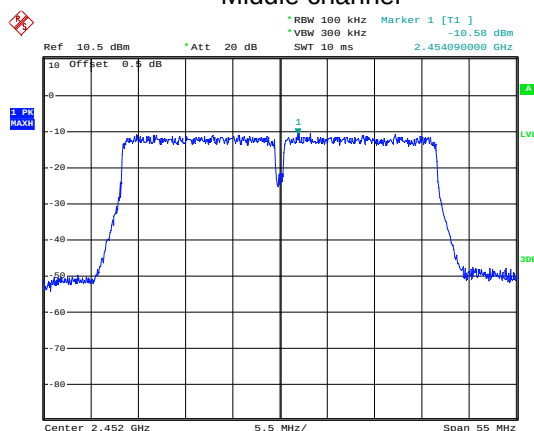


Date: 25.OCT.2012 11:24:35

Lowest channel



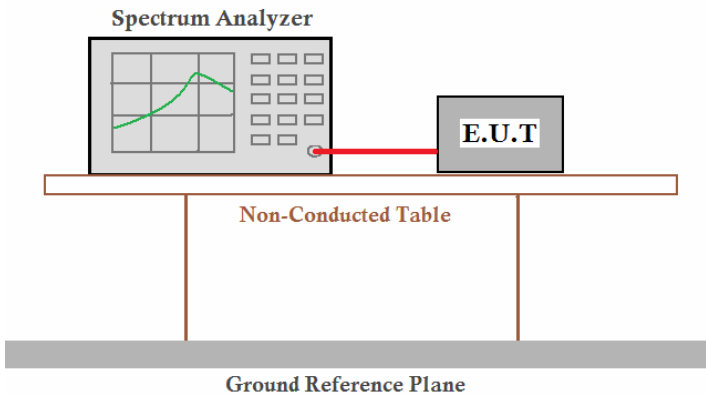
Middle channel



Highest channel

6.6 Band Edge

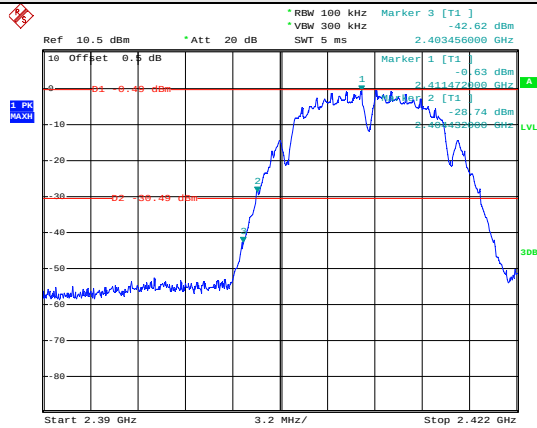
6.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 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 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 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 two vertical legs. Below the table is a Ground Reference Plane.
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

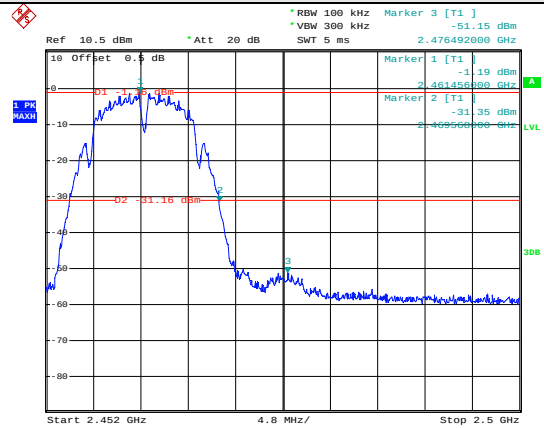
Test plot as follows:

Test mode:

802.11b



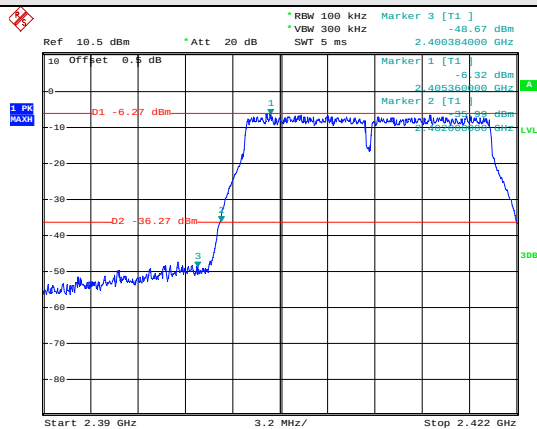
Lowest channel



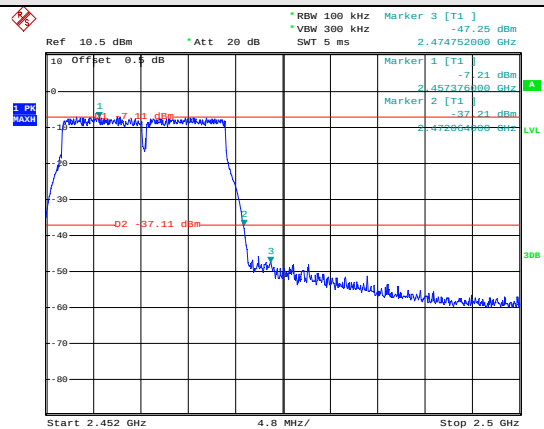
Highest channel

Test mode:

802.11g

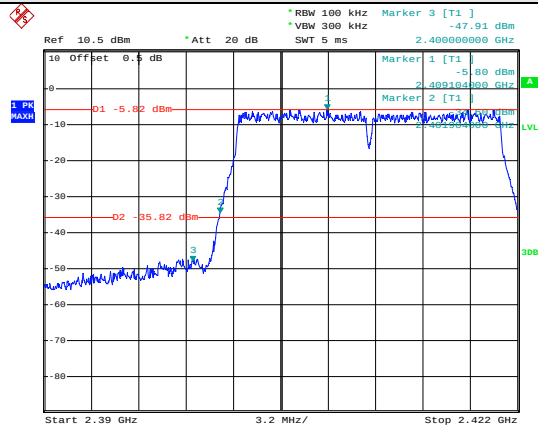


Lowest channel

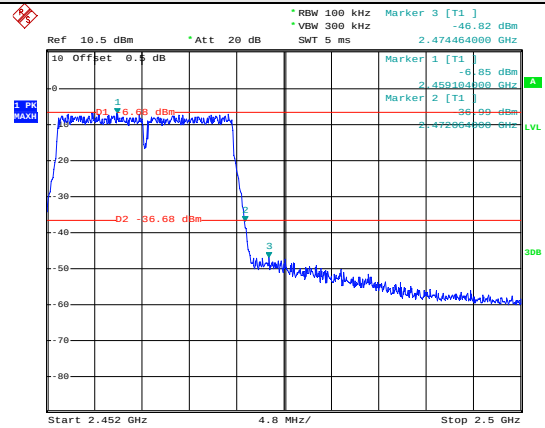


Highest channel

Test mode:	802.11n(H20)
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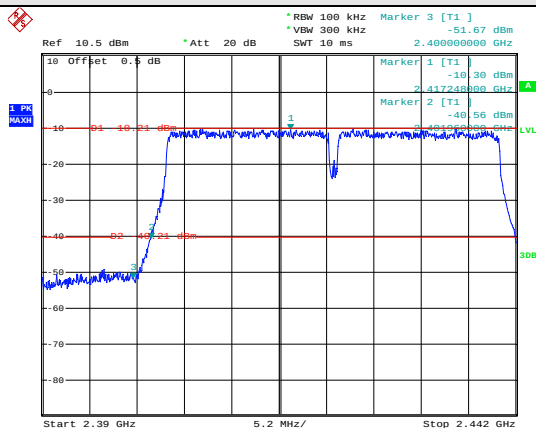


Lowest channel

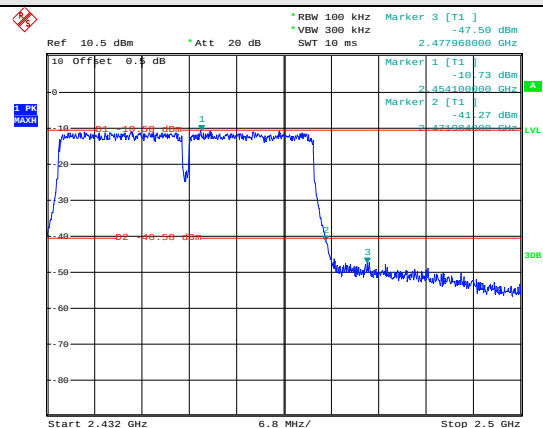


Highest channel

Test mode:	802.11n(H40)
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Lowest channel



Highest channel

6.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205																		
Test Method:	ANSI C63.4: 2003																		
Test Frequency Range:	2.3GHz to 2.5GHz																		
Test site:	Measurement Distance: 3m																		
Receiver setup:	<table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</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>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr></table>					Frequency	Detector	RBW	VBW	Remark	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Peak	1MHz	10Hz	Average Value
Frequency	Detector	RBW	VBW	Remark															
Above 1GHz	Peak	1MHz	3MHz	Peak Value															
	Peak	1MHz	10Hz	Average Value															
Limit:	<table><tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr><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></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:	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.																		
Test setup:	EUT Turn Table 0.8m 3m 4m 1m Antenna Tower Horn Antenna Spectrum Analyzer Amplifier																		
Test Instruments:	Refer to section 5.7 for details																		
Test mode:	Refer to section 5.3 for details																		
Test results:	Passed																		

802.11b

Test channel:		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	58.31	27.58	3.81	34.83	54.87	74.00	-19.13	Horizontal
2400.00	48.32	27.58	3.83	34.83	44.90	74.00	-29.10	Horizontal
2390.00	52.36	27.58	3.81	34.83	48.92	74.00	-25.08	Vertical
2400.00	49.35	27.58	3.83	34.83	45.93	74.00	-28.07	Vertical

Test channel:		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	49.52	27.58	3.81	34.83	46.08	54.00	-7.92	Horizontal
2400.00	36.58	27.58	3.83	34.83	33.16	54.00	-20.84	Horizontal
2390.00	46.32	27.58	3.81	34.83	42.88	54.00	-11.12	Vertical
2400.00	38.32	27.58	3.83	34.83	34.90	54.00	-19.10	Vertical

Test channel:		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	60.32	27.52	3.89	34.86	56.87	74.00	-17.13	Horizontal
2500.00	48.35	27.55	3.90	34.87	44.93	74.00	-29.07	Horizontal
2483.50	58.35	27.52	3.89	34.86	54.90	74.00	-19.10	Vertical
2500.00	49.68	27.55	3.90	34.87	46.26	74.00	-27.74	Vertical

Test channel:		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	49.35	27.52	3.89	34.86	45.90	54.00	-8.10	Horizontal
2500.00	39.14	27.55	3.90	34.87	35.72	54.00	-18.28	Horizontal
2483.50	49.19	27.52	3.89	34.86	45.74	54.00	-8.26	Vertical
2500.00	35.26	27.55	3.90	34.87	31.84	54.00	-22.16	Vertical

802.11g

Test channel:		Lowest			Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	58.32	27.58	3.81	34.83	54.88	74.00	-19.12	Horizontal
2400.00	46.32	27.58	3.83	34.83	42.90	74.00	-31.10	Horizontal
2390.00	61.32	27.58	3.81	34.83	57.88	74.00	-16.12	Vertical
2400.00	49.30	27.58	3.83	34.83	45.88	74.00	-28.12	Vertical

Test channel:		Lowest			Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.26	27.58	3.81	34.83	45.82	54.00	-8.18	Horizontal
2400.00	38.15	27.58	3.83	34.83	34.73	54.00	-19.27	Horizontal
2390.00	53.26	27.58	3.81	34.83	49.82	54.00	-4.18	Vertical
2400.00	41.32	27.58	3.83	34.83	37.90	54.00	-16.10	Vertical

Test channel:		Highest			Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	59.16	27.52	3.89	34.86	55.71	74.00	-18.29	Horizontal
2500.00	50.32	27.55	3.90	34.87	46.90	74.00	-27.10	Horizontal
2483.50	59.16	27.52	3.89	34.86	55.71	74.00	-18.29	Vertical
2500.00	51.32	27.55	3.90	34.87	47.90	74.00	-26.10	Vertical

Test channel:		Highest			Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.04	27.52	3.89	34.86	45.59	54.00	-8.41	Horizontal
2500.00	37.19	27.55	3.90	34.87	33.77	54.00	-20.23	Horizontal
2483.50	47.39	27.52	3.89	34.86	43.94	54.00	-10.06	Vertical
2500.00	40.32	27.55	3.90	34.87	36.90	54.00	-17.10	Vertical

802.11n (H20)

Test channel:		Lowest			Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	62.03	27.58	3.81	34.83	58.59	74.00	-15.41	Horizontal
2400.00	50.35	27.58	3.83	34.83	46.93	74.00	-27.07	Horizontal
2390.00	63.15	27.58	3.81	34.83	59.71	74.00	-14.29	Vertical
2400.00	59.26	27.58	3.83	34.83	55.84	74.00	-18.16	Vertical

Test channel:		Lowest			Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	53.26	27.58	3.81	34.83	49.82	54.00	-4.18	Horizontal
2400.00	49.32	27.58	3.83	34.83	45.90	54.00	-8.10	Horizontal
2390.00	45.35	27.58	3.81	34.83	41.91	54.00	-12.09	Vertical
2400.00	43.26	27.58	3.83	34.83	39.84	54.00	-14.16	Vertical

Test channel:		Highest			Level:		Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	53.26	27.52	3.89	34.86	49.81	74.00	-24.19	Horizontal
2500.00	49.27	27.55	3.90	34.87	45.85	74.00	-28.15	Horizontal
2483.50	67.32	27.52	3.89	34.86	63.87	74.00	-10.13	Vertical
2500.00	56.35	27.55	3.90	34.87	52.93	74.00	-21.07	Vertical

Test channel:		Highest			Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.35	27.52	3.89	34.86	44.90	54.00	-9.10	Horizontal
2500.00	40.39	27.55	3.90	34.87	36.97	54.00	-17.03	Horizontal
2483.50	49.32	27.52	3.89	34.86	45.87	54.00	-8.13	Vertical
2500.00	43.26	27.55	3.90	34.87	39.84	54.00	-14.16	Vertical

802.11n (H40)

Test channel:		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	64.35	27.58	3.81	34.83	60.91	74.00	-13.09	Horizontal
2400.00	53.26	27.58	3.83	34.83	49.84	74.00	-24.16	Horizontal
2390.00	61.32	27.58	3.81	34.83	57.88	74.00	-16.12	Vertical
2400.00	59.35	27.58	3.83	34.83	55.93	74.00	-18.07	Vertical

Test channel:		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	53.21	27.58	3.81	34.83	49.77	54.00	-4.23	Horizontal
2400.00	49.37	27.58	3.83	34.83	45.95	54.00	-8.05	Horizontal
2390.00	50.36	27.58	3.81	34.83	46.92	54.00	-7.08	Vertical
2400.00	46.35	27.58	3.83	34.83	42.93	54.00	-11.07	Vertical

Test channel:		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	60.10	27.52	3.89	34.86	56.65	74.00	-17.35	Horizontal
2500.00	53.26	27.55	3.90	34.87	49.84	74.00	-24.16	Horizontal
2483.50	62.32	27.52	3.89	34.86	58.87	74.00	-15.13	Vertical
2500.00	51.36	27.55	3.90	34.87	47.94	74.00	-26.06	Vertical

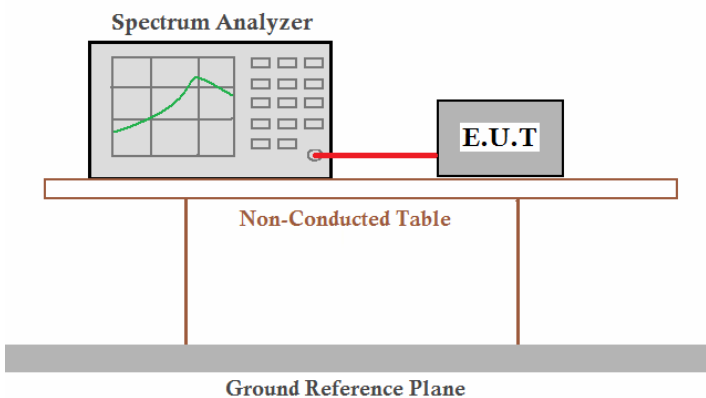
Test channel:		Highest			Level:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	50.32	27.52	3.89	34.86	46.87	54.00	-7.13	Horizontal
2500.00	49.75	27.55	3.90	34.87	46.33	54.00	-7.67	Horizontal
2483.50	50.26	27.52	3.89	34.86	46.81	54.00	-7.19	Vertical
2500.00	49.35	27.55	3.90	34.87	45.93	54.00	-8.07	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.

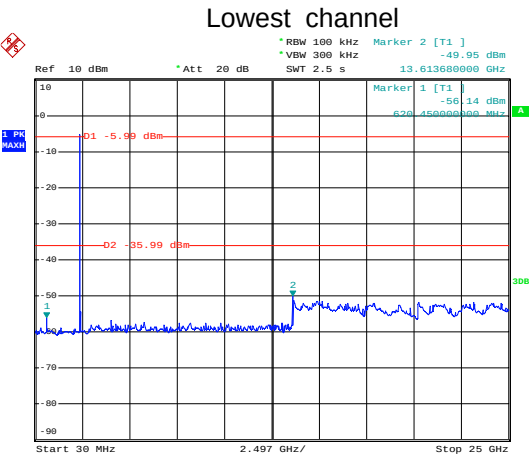
6.7 Spurious Emission

6.7.1 Conducted Emission Method

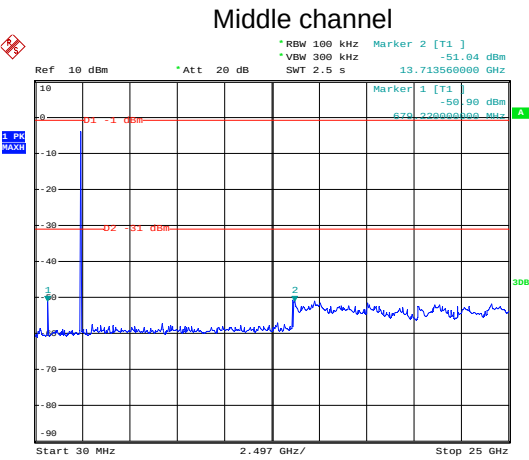
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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:	 The diagram illustrates the test setup for conducted emission testing. A Spectrum Analyzer is connected to an Equipment Under Test (E.U.T.) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane.
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:

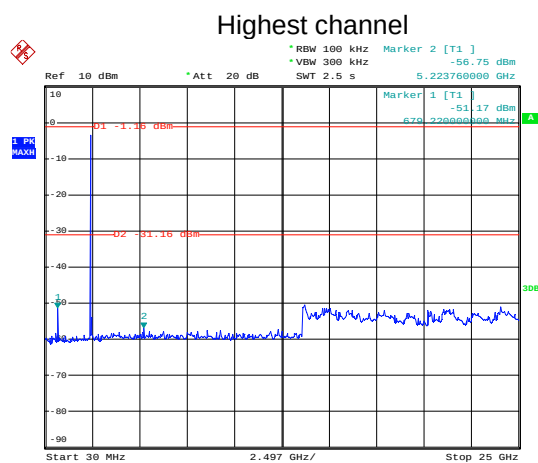
Test mode:	802.11b
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30MHz~25GHz



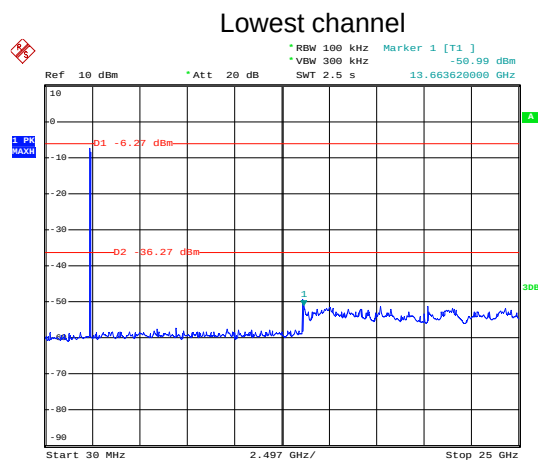
30MHz~25GHz



DATA: 20 OCT 2012 01:40:12

30MHz~25GHz

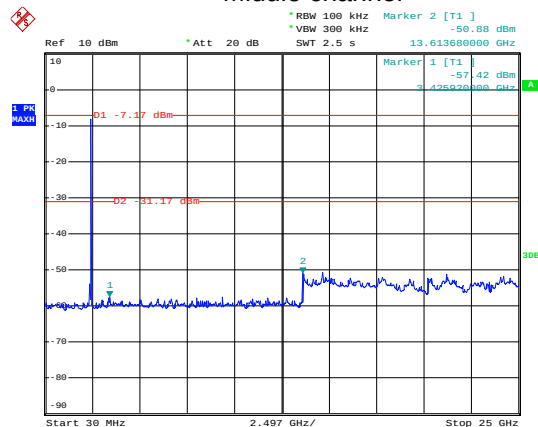
Test mode:	802.11g
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5 6 7 8 9 10 11 12 13 14 15 16 17

30MHz~25GHz

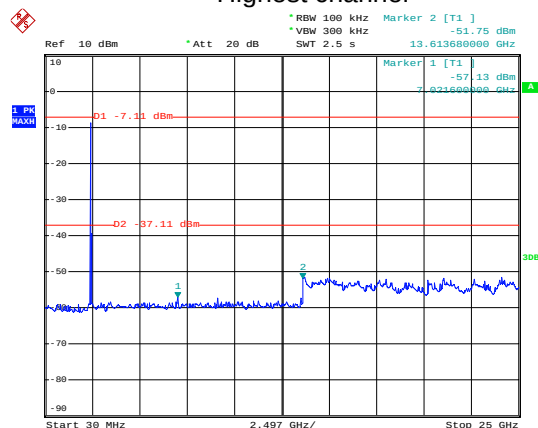
Middle channel



20 OCT 2012 01:40:43

30MHz~25GHz

Highest channel



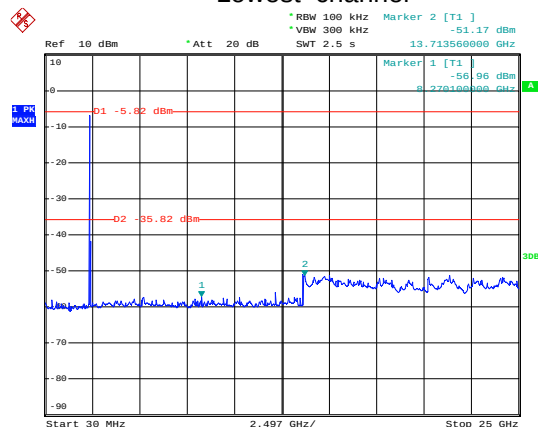
20 OCT 2012 01:40:43

30MHz~25GHz

Test mode:

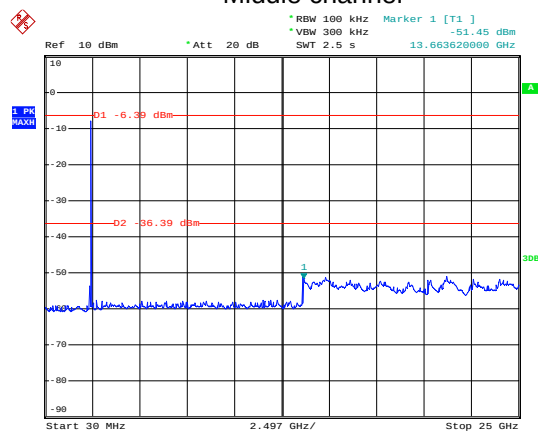
802.11n(H20)

Lowest channel

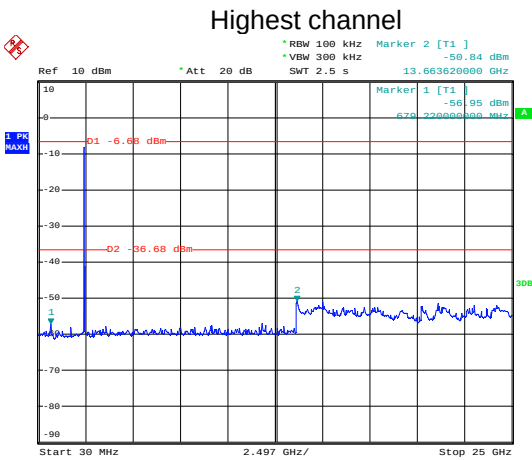


30MHz~25GHz

Middle channel



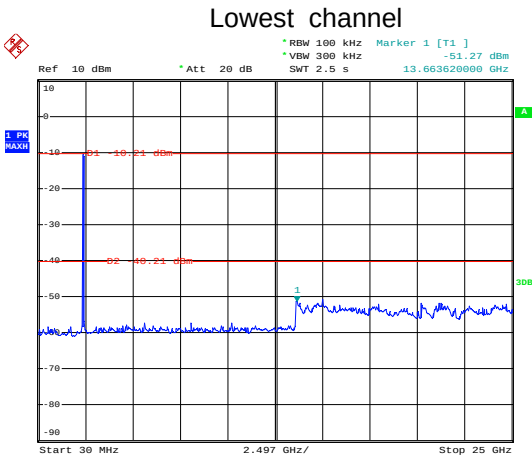
30MHz~25GHz



Date: 20 OCT 2012 01:53:53

30MHz~25GHz

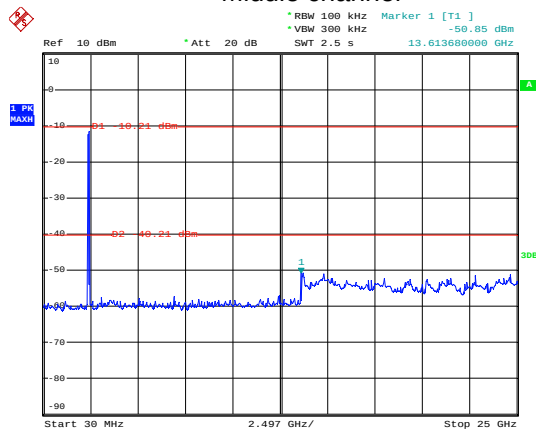
Test mode:	802.11n(H40)
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Date: 20 OCT 2012 01:53:26

30MHz~25GHz

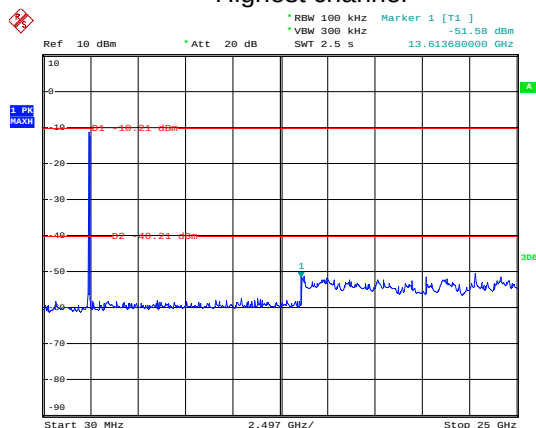
Middle channel



Date: 20 OCT 2012 01:54:05

30MHz~25GHz

Highest channel

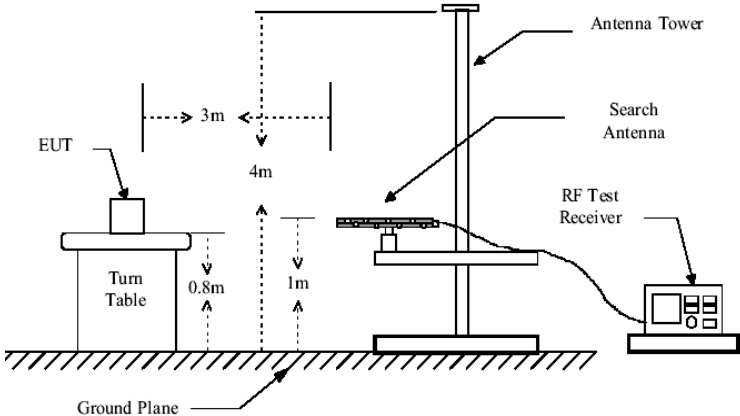
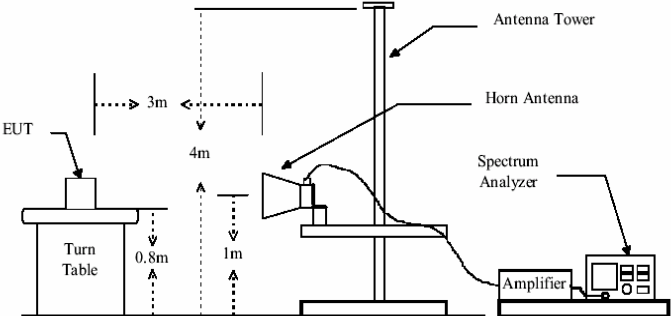


Date: 20 OCT 2012 01:54:05

30MHz~25GHz

6.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.4:2003				
Test Frequency Range:	30MHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:					
	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Peak		1MHz	10Hz	Average Value	
Limit:					
	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.				

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

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
41.57	47.05	13.57	1.24	30.31	31.55	40.00	-8.45	Vertical
71.83	55.30	8.32	1.56	30.14	35.04	40.00	-4.96	Vertical
97.80	48.11	13.03	1.98	30.09	33.03	43.50	-10.47	Vertical
143.83	50.47	8.22	2.44	29.94	31.19	43.50	-12.31	Vertical
155.91	52.01	8.51	2.56	29.91	33.17	43.50	-10.33	Vertical
182.56	47.29	9.92	2.75	29.85	30.11	43.50	-13.39	Vertical
71.83	57.14	8.32	1.56	30.14	36.88	40.00	-3.12	Horizontal
83.82	47.72	9.87	1.79	30.11	29.27	40.00	-10.73	Horizontal
167.82	51.00	8.90	2.64	29.88	32.66	43.50	-10.84	Horizontal
216.02	43.85	11.07	2.85	29.74	28.03	46.00	-17.97	Horizontal
300.37	44.94	13.06	2.94	29.43	31.51	46.00	-14.49	Horizontal
528.25	47.16	17.15	3.77	30.53	37.55	46.00	-8.45	Horizontal

Above 1GHz

Test mode:	802.11b		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	39.67	31.79	5.34	24.07	52.73	74.00	-21.27	Vertical
7236.00	29.57	36.19	6.88	26.44	46.20	74.00	-27.80	Vertical
9648.00	28.64	38.07	8.96	25.36	50.31	74.00	-23.69	Vertical
12060.00	26.06	39.05	10.35	25.15	50.31	74.00	-23.69	Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	45.35	31.79	5.34	24.07	58.41	74.00	-15.59	Horizontal
7236.00	31.26	36.19	6.88	26.44	47.89	74.00	-26.11	Horizontal
9648.00	31.08	38.07	8.96	25.36	52.75	74.00	-21.25	Horizontal
12060.00	29.25	39.05	10.35	25.15	53.50	74.00	-20.50	Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Test mode:	802.11b		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	21.62	31.79	5.34	24.07	34.68	54.00	-19.32	Vertical
7236.00	14.80	36.19	6.88	26.44	31.43	54.00	-22.57	Vertical
9648.00	14.25	38.07	8.96	25.36	35.92	54.00	-18.08	Vertical
12060.00	12.74	39.05	10.35	25.15	36.99	54.00	-17.01	Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	23.23	31.79	5.34	24.07	36.29	54.00	-17.71	Horizontal
7236.00	16.26	36.19	6.88	26.44	32.89	54.00	-21.11	Horizontal
9648.00	15.56	38.07	8.96	25.36	37.23	54.00	-16.77	Horizontal
12060.00	13.90	39.05	10.35	25.15	38.15	54.00	-15.85	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	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.36	31.85	5.40	24.01	52.60	74.00	-21.40	Vertical
7311.00	27.26	36.37	6.90	26.58	43.95	74.00	-30.05	Vertical
9688.00	27.17	38.13	8.98	25.34	48.94	74.00	-25.06	Vertical
12185.00	23.98	38.92	10.38	25.04	48.24	74.00	-25.76	Vertical
14682.00	*					74.00		Vertical
17179.00	*					74.00		Vertical
4874.00	41.50	31.85	5.40	24.01	54.74	74.00	-19.26	Horizontal
7311.00	29.29	36.37	6.90	26.58	45.98	74.00	-28.02	Horizontal
9688.00	29.09	38.13	8.98	25.34	50.86	74.00	-23.14	Horizontal
12185.00	25.79	38.92	10.38	25.04	50.05	74.00	-23.95	Horizontal
14682.00	*					74.00		Horizontal
17179.00	*					74.00		Horizontal

Test mode:	802.11b		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	21.74	31.85	5.40	24.01	34.98	54.00	-19.02	Vertical
7311.00	15.36	36.37	6.90	26.58	32.05	54.00	-21.95	Vertical
9688.00	11.14	38.13	8.98	25.34	32.91	54.00	-21.09	Vertical
12185.00	11.11	38.92	10.38	25.04	35.37	54.00	-18.63	Vertical
14682.00	*					54.00		Vertical
17179.00	*					54.00		Vertical
4874.00	23.78	31.85	5.40	24.01	37.02	54.00	-16.98	Horizontal
7311.00	16.19	36.37	6.90	26.58	32.88	54.00	-21.12	Horizontal
9688.00	12.86	38.13	8.98	25.34	34.63	54.00	-19.37	Horizontal
12185.00	12.67	38.92	10.38	25.04	36.93	54.00	-17.07	Horizontal
14682.00	*					54.00		Horizontal
17179.00	*					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.
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	
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	
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 – Preamplifier Factor
2. “*”, means this data is the 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:	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	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
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 – Preamplifier 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	34.04	31.85	5.40	24.01	47.28	74.00	-26.72	Vertical
7311.00	27.35	36.37	6.90	26.58	44.04	74.00	-29.96	Vertical
9688.00	24.29	38.13	8.98	25.34	46.06	74.00	-27.94	Vertical
12185.00	24.13	38.92	10.38	25.04	48.39	74.00	-25.61	Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4874.00	36.17	31.85	5.40	24.01	49.41	74.00	-24.59	Horizontal
7311.00	28.68	36.37	6.90	26.58	45.37	74.00	-28.63	Horizontal
9688.00	24.43	38.13	8.98	25.34	46.20	74.00	-27.80	Horizontal
12185.00	24.08	38.92	10.38	25.04	48.34	74.00	-25.66	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	20.35	31.85	5.40	24.01	33.59	54.00	-20.41	Vertical
7311.00	17.06	36.37	6.90	26.58	33.75	54.00	-20.25	Vertical
9688.00	13.11	38.13	8.98	25.34	34.88	54.00	-19.12	Vertical
12185.00	10.88	38.92	10.38	25.04	35.14	54.00	-18.86	Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4874.00	22.39	31.85	5.40	24.01	35.63	54.00	-18.37	Horizontal
7311.00	18.94	36.37	6.90	26.58	35.63	54.00	-18.37	Horizontal
9688.00	14.83	38.13	8.98	25.34	36.60	54.00	-17.40	Horizontal
12185.00	12.44	38.92	10.38	25.04	36.70	54.00	-17.30	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.
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 – Preamplifier Factor
2. “*”, means this data is the 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(H20)		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(H20)		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 – Preamp 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(H20)		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	33.18	31.85	5.40	24.01	46.42	74.00	-27.58	Vertical
7311.00	26.96	36.37	6.90	26.58	43.65	74.00	-30.35	Vertical
9688.00	23.52	38.13	8.98	25.34	45.29	74.00	-28.71	Vertical
12185.00	22.41	38.92	10.38	25.04	46.67	74.00	-27.33	Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4874.00	35.22	31.85	5.40	24.01	48.46	74.00	-25.54	Horizontal
7311.00	28.84	36.37	6.90	26.58	45.53	74.00	-28.47	Horizontal
9688.00	25.24	38.13	8.98	25.34	47.01	74.00	-26.99	Horizontal
12185.00	23.97	38.92	10.38	25.04	48.23	74.00	-25.77	Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Test mode:	802.11n(H20)		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	20.65	31.85	5.40	24.01	33.89	54.00	-20.11	Vertical
7311.00	18.84	36.37	6.90	26.58	35.53	54.00	-18.47	Vertical
9688.00	15.37	38.13	8.98	25.34	37.14	54.00	-16.86	Vertical
12185.00	10.89	38.92	10.38	25.04	35.15	54.00	-18.85	Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4874.00	22.69	31.85	5.40	24.01	35.93	54.00	-18.07	Horizontal
7311.00	20.72	36.37	6.90	26.58	37.41	54.00	-16.59	Horizontal
9688.00	17.09	38.13	8.98	25.34	38.86	54.00	-15.14	Horizontal
12185.00	13.95	38.92	10.38	25.04	38.21	54.00	-15.79	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 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(H20)		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(H20)		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 – Preamplifier Factor
2. “*”, means this data is the 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(H40)		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	40.82	31.79	5.34	24.07	53.88	74.00	-20.12	Vertical
7266.00	39.32	36.19	6.88	26.44	55.95	74.00	-18.05	Vertical
9688.00	34.33	38.07	8.96	25.36	56.00	74.00	-18.00	Vertical
12110.00	33.49	39.05	10.35	25.15	57.74	74.00	-16.26	Vertical
14532.00	*					74.00		Vertical
16954.00	*					74.00		Vertical
4844.00	42.41	31.79	5.34	24.07	55.47	74.00	-18.53	Horizontal
7266.00	40.78	36.19	6.88	26.44	57.41	74.00	-16.59	Horizontal
9688.00	35.64	38.07	8.96	25.36	57.31	74.00	-16.69	Horizontal
12110.00	34.65	39.05	10.35	25.15	58.90	74.00	-15.10	Horizontal
14532.00	*					74.00		Horizontal
16954.00	*					74.00		Horizontal

Test mode:	802.11n(H40)		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	29.66	31.79	5.34	24.07	42.72	54.00	-11.28	Vertical
7266.00	30.52	36.19	6.88	26.44	47.15	54.00	-6.85	Vertical
9688.00	22.87	38.07	8.96	25.36	44.54	54.00	-9.46	Vertical
12110.00	20.83	39.05	10.35	25.15	45.08	54.00	-8.92	Vertical
14532.00	*					54.00		Vertical
16954.00	*					54.00		Vertical
4844.00	31.27	31.79	5.34	24.07	44.33	54.00	-9.67	Horizontal
7266.00	31.98	36.19	6.88	26.44	48.61	54.00	-5.39	Horizontal
9688.00	24.18	38.07	8.96	25.36	45.85	54.00	-8.15	Horizontal
12110.00	21.99	39.05	10.35	25.15	46.24	54.00	-7.76	Horizontal
14532.00	*					54.00		Horizontal
16954.00	*					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.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test mode:	802.11n(H40)		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	41.08	31.85	5.4	24.01	54.32	74.00	-19.68	Vertical
7311.00	37.76	36.37	6.9	26.58	54.45	74.00	-19.55	Vertical
9688.00	30.22	38.13	8.98	25.34	51.99	74.00	-22.01	Vertical
12185.00	30.81	38.92	10.38	25.04	55.07	74.00	-18.93	Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4874.00	43.12	31.85	5.4	24.01	56.36	74.00	-17.64	Horizontal
7311.00	39.64	36.37	6.9	26.58	56.33	74.00	-17.67	Horizontal
9688.00	31.94	38.13	8.98	25.34	53.71	74.00	-20.29	Horizontal
12185.00	32.37	38.92	10.38	25.04	56.63	74.00	-17.37	Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal

Test mode:	802.11n(H40)		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 – Preamplifier Factor
2. “*”, means this data is the 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(H40)		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(H40)		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	32.26	31.89	5.46	23.96	45.65	54.00	-8.35	Vertical
7356.00	26.35	36.49	6.93	26.79	42.98	54.00	-11.02	Vertical
9808.00	20.56	38.24	9.05	25.30	42.55	54.00	-11.45	Vertical
12260.00	12.32	38.83	10.41	24.90	36.66	54.00	-17.34	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	20.32	38.83	10.41	24.90	44.66	54.00	-9.34	Horizontal
14712.00	*					54.00		Horizontal
17164.00	*					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.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.