

FCC REPORT

(WIFI)

Applicant: APRIX LATINOAMERICA S.A.

Address of Applicant: ADVANCED 099 BLDG SUITE 4 C CALLE BEATRIZ M DE
CABAL PANAMA

Equipment Under Test (EUT)

Product Name: Phablet

Model No.: Aprix_Phata6

Trade mark: APRIX

FCC ID: 2AHJQ-APT695

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

Date of sample receipt: 21 Feb., 2017

Date of Test: 21 Feb., to 14 Mar, 2017

Date of report issued: 15 Mar., 2017

Test Result: PASS*

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

Authorized Signature:



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	15 Mar., 2017	Original

Tested by:

YT Yang

Date:

15 Mar., 2017

Test Engineer

Reviewed by:

MT Liang

Date:

15 Mar., 2017

Project Engineer

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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
6dB Emission Bandwidth 99% 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:	APRIX LATINOAMERICA S.A.
Address of Applicant:	ADVANCED 099 BLDG SUITE 4 C CALLE BEATRIZ M DE CABAL PANAMA
Manufacturer:	Todos industrial limited
Address of Manufacturer:	Room 3A03, Block B, huashenghui, Xi'xiang Town, Bao'an District shenzhen China

5.2 General Description of E.U.T.

Product Name:	Phablet
Model No.:	Aprix_Ph4t6
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:	Internal Antenna
Antenna gain:	1dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-4000mAh
AC adapter:	Model: BY120502000 Input: AC100-240V 50/60Hz 0.3A Output: DC 5.0V, 2A

Operation Frequency each of channel For 802.11b/g/n(H20)							
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		

Operation Frequency each of channel For 802.11n(H40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
		4	2427MHz	7	2442MHz		
		5	2432MHz	8	2447MHz		
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
The sample was placed 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.	

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 Measurement Uncertainty

Items	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)

5.5 Laboratory Facility

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

● **FCC - Registration No.: 817957**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. 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.

● **IC - Registration No.: 10106A-1**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
 Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
 Bao'an District, Shenzhen, Guangdong, China
 Tel: +86-755-23118282
 Fax: +86-755-23116366

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 SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	03-25-2016	03-25-2017
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-25-2016	03-25-2017
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2016	03-31-2017
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2016	03-31-2017
6	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2016	03-31-2017
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	04-01-2016	03-31-2017
8	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	03-28-2016	03-28-2017
9	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-28-2016	03-28-2017
10	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2016	03-31-2017
11	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
12	Coaxial Cable	N/A	N/A	CCIS0018	04-01-2016	03-31-2017
13	Coaxial Cable	N/A	N/A	CCIS0020	04-01-2016	03-31-2017

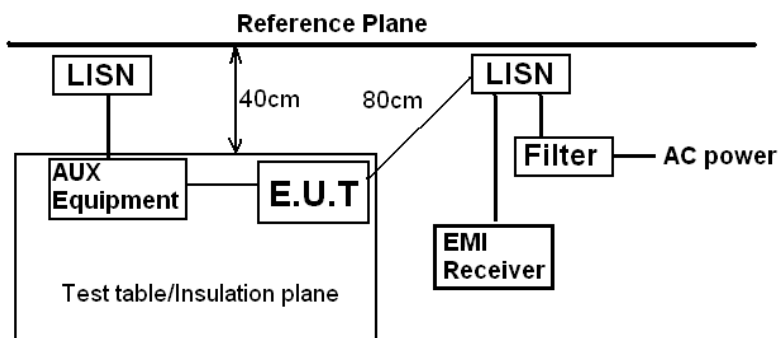
Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	08-23-2014	08-22-2017
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-24-2016	03-24-2017
3	LISN	CHASE	MN2050D	CCIS0074	03-26-2016	03-26-2017
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2016	03-31-2017
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

6 Test results and Measurement Data

6.1 Antenna requirement:

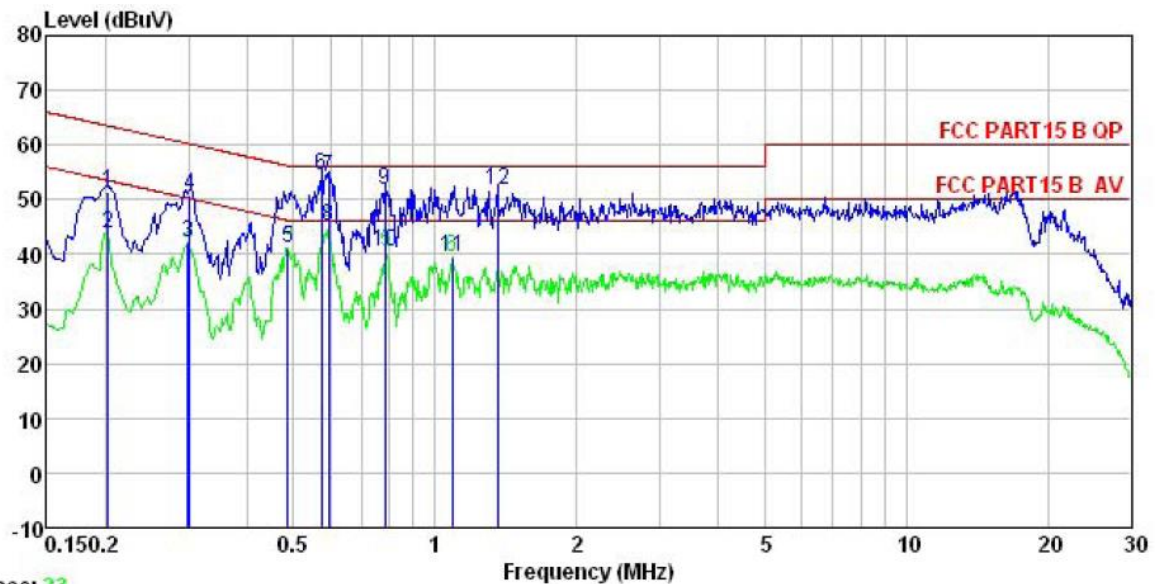
Standard requirement:	FCC Part 15 C Section 15.203 /247(c)
15.203 requirement: <i>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses 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> 15.247(c) (1)(i) requirement: <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:	
The WiFi antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 1 dBi.	
	

6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15.207		
Test Method:	ANSI C63.4: 2014		
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9 kHz, VBW=30 kHz		
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	- The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. - The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). - Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.		
Test setup:	 <i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m		
Test Instruments:	Refer to section 5.6 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

Measurement Data:

Neutral:



Trace: 23

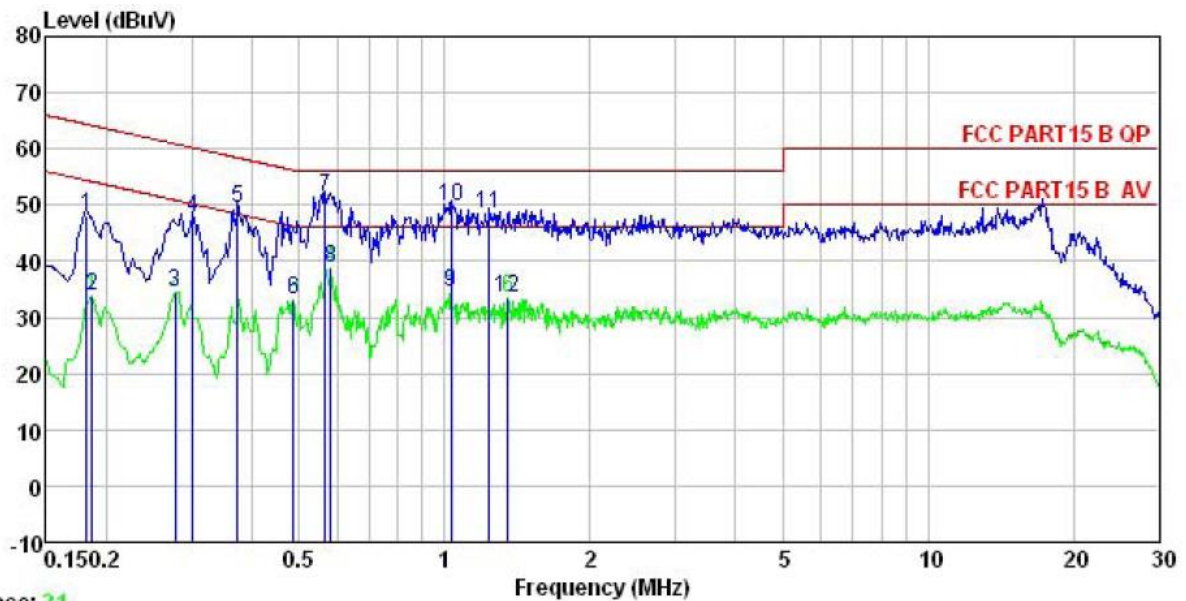
Site : CCIS Shielding Room
 Condition : FCC PART15 B QP LISN NEUTRAL
 EUT : Phablet
 Model : Aprix_Phat6
 Test Mode : WIFI mode
 Power Rating : AC120/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: YT
 Remark :

	Freq	Read	LISN	Cable	Level	Limit	Over	
	MHz	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.202	40.54	0.15	10.76	51.45	63.54	-12.09	QP
2	0.202	32.98	0.15	10.76	43.89	53.54	-9.65	Average
3	0.299	31.09	0.19	10.74	42.02	50.28	-8.26	Average
4	0.302	39.92	0.19	10.74	50.85	60.19	-9.34	QP
5	0.486	29.99	0.24	10.76	40.99	46.23	-5.24	Average
6	0.573	43.32	0.28	10.77	54.37	56.00	-1.63	QP
7	0.595	43.05	0.29	10.77	54.11	56.00	-1.89	QP
8	0.595	34.11	0.29	10.77	45.17	46.00	-0.83	Average
9	0.783	40.55	0.31	10.81	51.67	56.00	-4.33	QP
10	0.788	29.50	0.31	10.81	40.62	46.00	-5.38	Average
11	1.088	28.37	0.26	10.88	39.51	46.00	-6.49	Average
12	1.359	40.73	0.26	10.91	51.90	56.00	-4.10	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.

Line:



Trace: 21

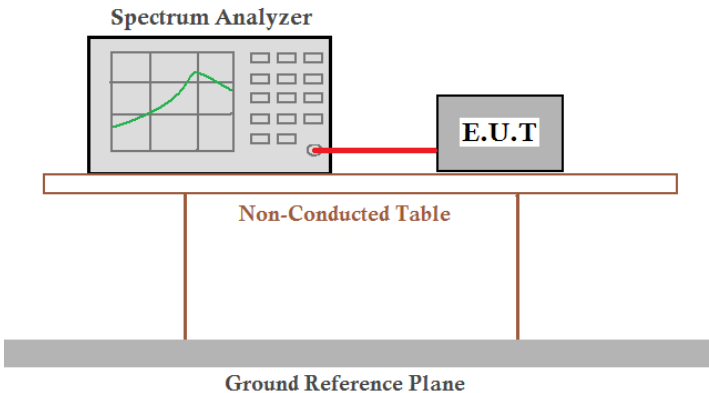
Site : CCIS Shielding Room
 Condition : FCC PART15 B QP LISN LINE
 EUT : Phablet
 Model : Aprix_Ph4t6
 Test Mode : WIFI mode
 Power Rating : AC120/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: YT
 Remark :

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.182	37.16	0.15	10.77	48.08	64.42	-16.34	QP
2	0.186	22.97	0.15	10.76	33.88	54.20	-20.32	Average
3	0.277	23.68	0.16	10.74	34.58	50.90	-16.32	Average
4	0.302	36.92	0.16	10.74	47.82	60.19	-12.37	QP
5	0.373	38.39	0.22	10.73	49.34	58.43	-9.09	QP
6	0.486	22.27	0.24	10.76	33.27	46.23	-12.96	Average
7	0.567	40.28	0.27	10.77	51.32	56.00	-4.68	QP
8	0.582	27.82	0.28	10.77	38.87	46.00	-7.13	Average
9	1.032	23.31	0.26	10.87	34.44	46.00	-11.56	Average
10	1.037	38.78	0.26	10.87	49.91	56.00	-6.09	QP
11	1.236	37.42	0.28	10.90	48.60	56.00	-7.40	QP
12	1.352	22.21	0.29	10.91	33.41	46.00	-12.59	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 Output Power

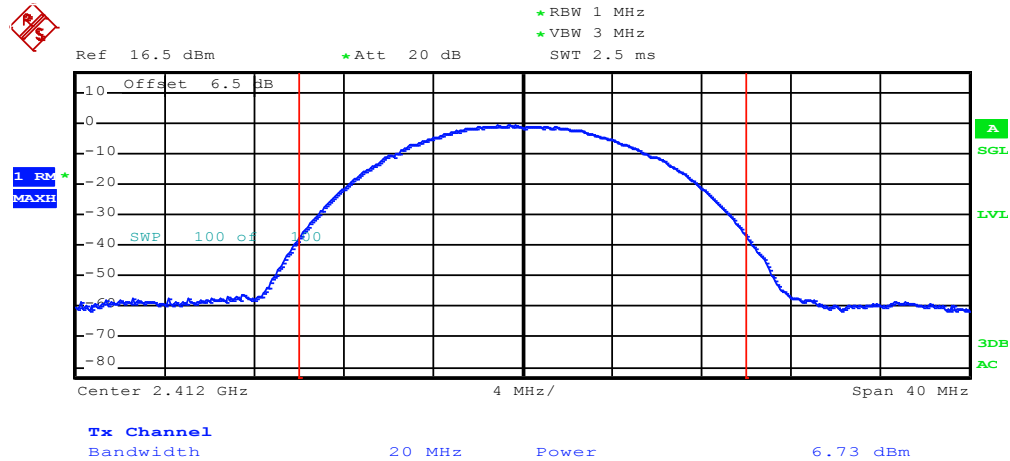
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 9.2.2.2
Limit:	30dBm
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

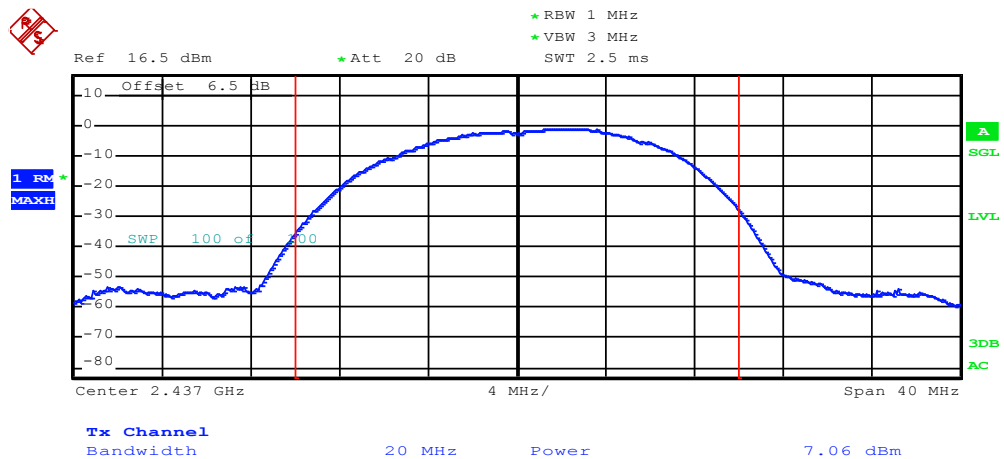
Test CH	Maximum Conducted Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	6.73	4.85	5.00	3.09	30.00	Pass
Middle	7.06	4.13	4.02	3.23		
Highest	6.87	4.56	4.71	3.65		

Test plot as follows:

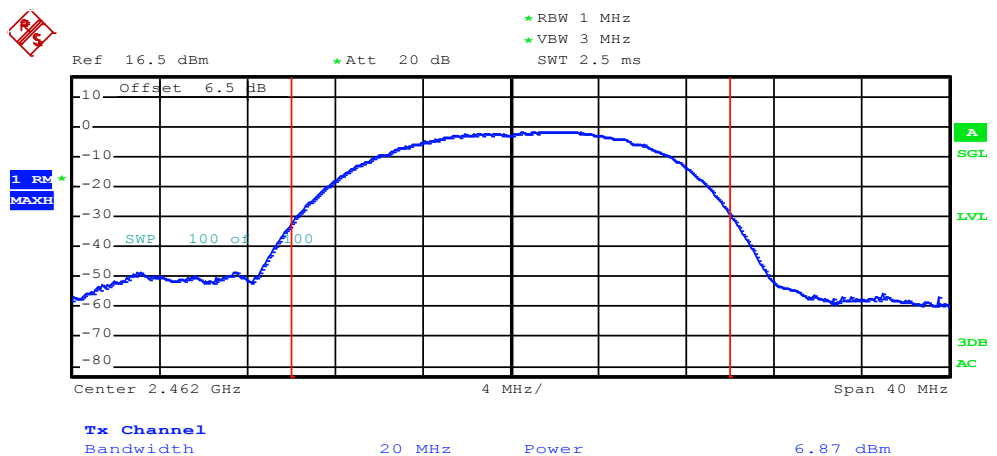
Test mode: 802.11b



Lowest channel

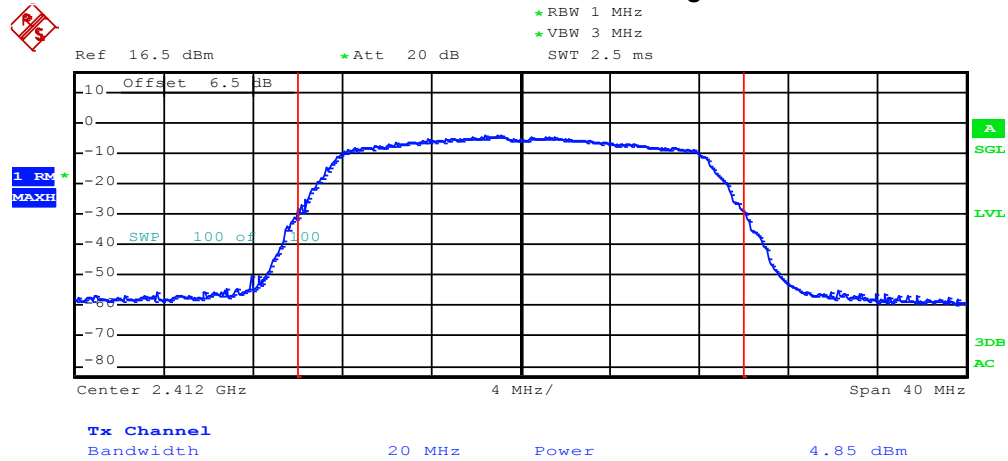


Middle channel

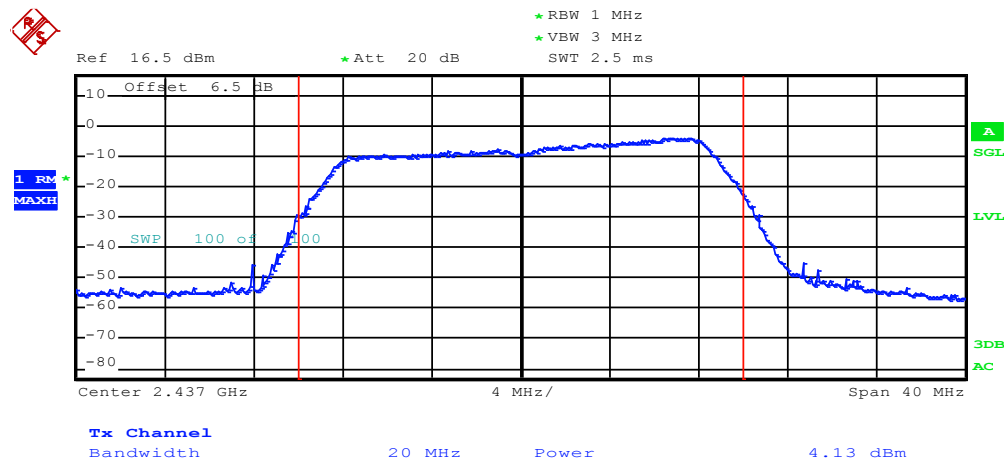


Highest channel

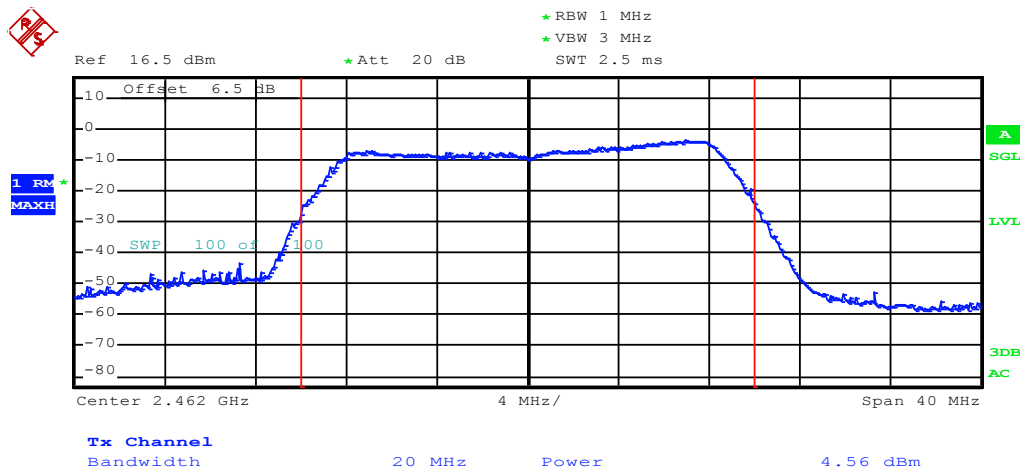
Test mode: 802.11g



Lowest channel

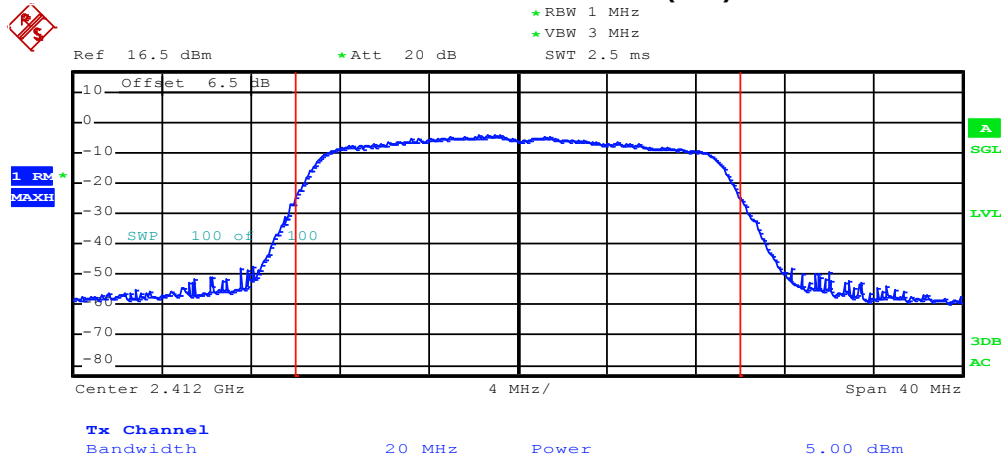


Middle channel

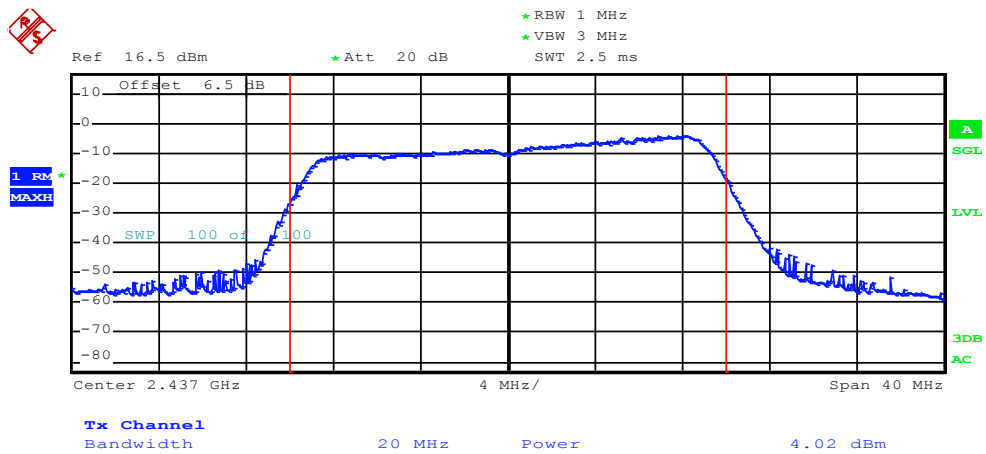


Highest channel

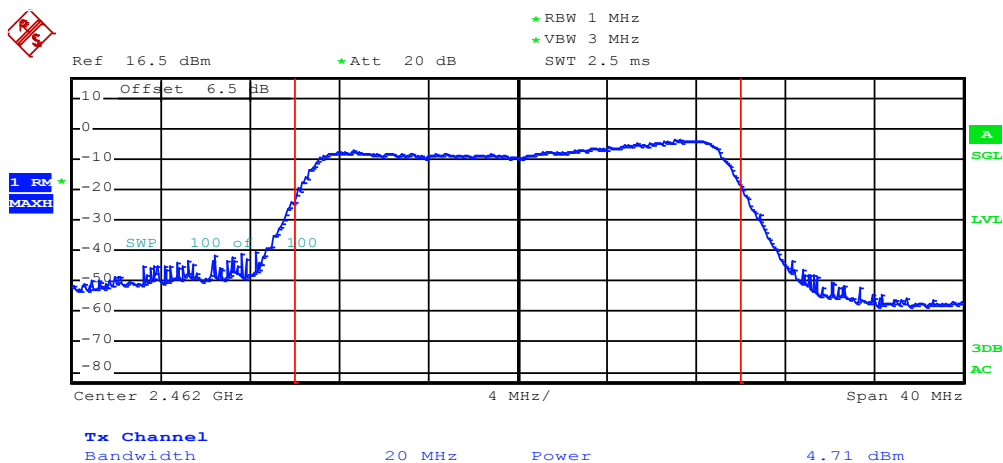
Test mode: 802.11n(H20)



Lowest channel

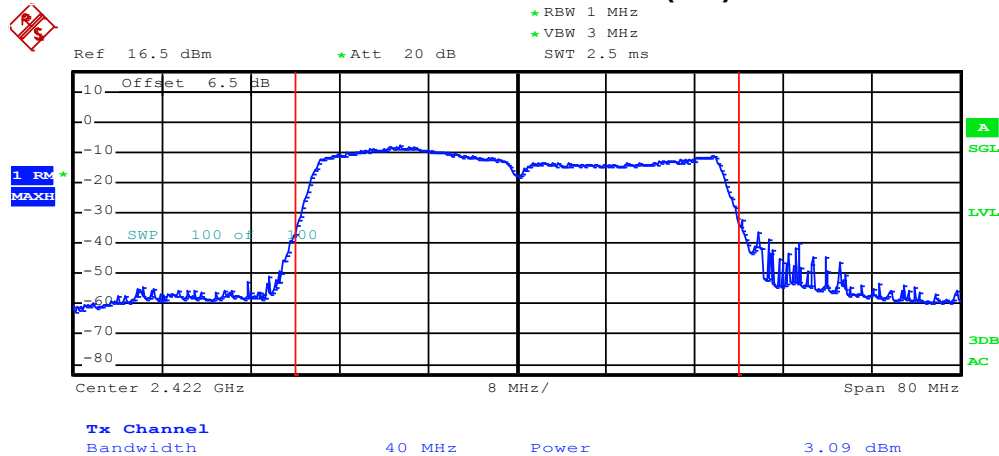


Middle channel

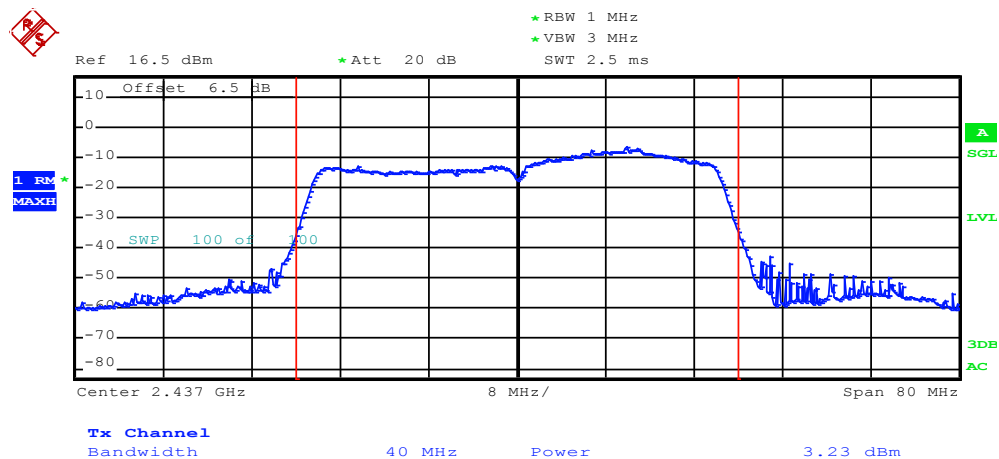


Highest channel

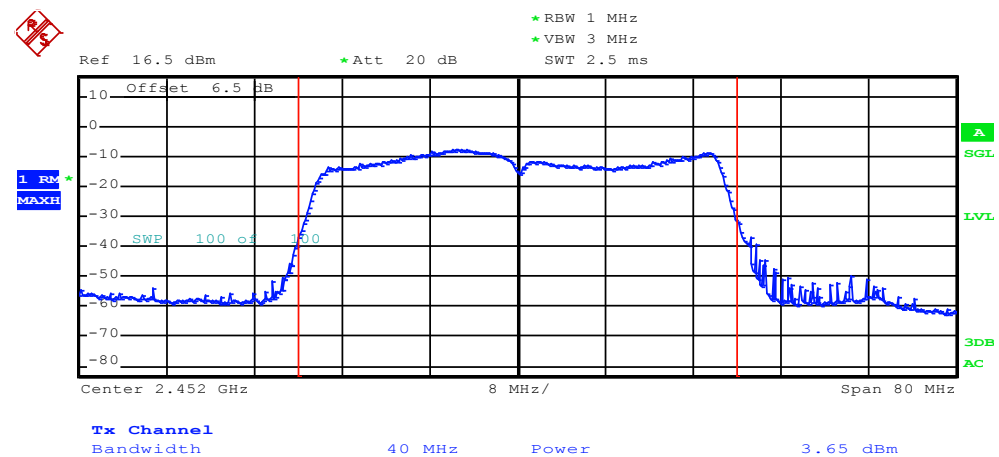
Test mode: 802.11n(H40)



Lowest channel

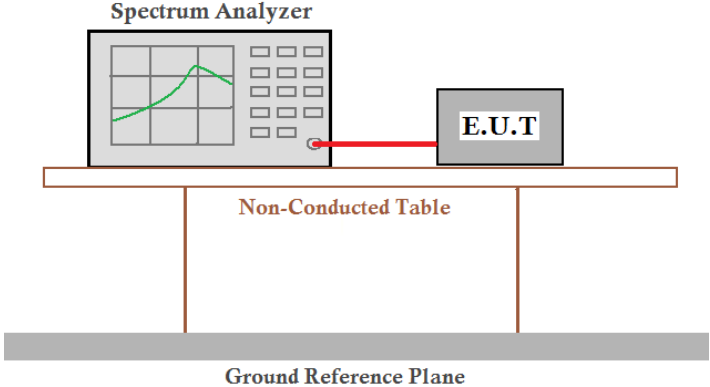


Middle channel



Highest channel

6.4 Occupy Bandwidth

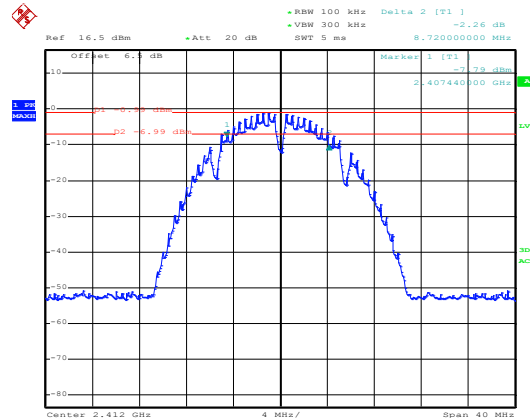
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 8.1
Limit:	>500kHz
Test setup:	
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

Test CH	6dB Emission Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	8.72	15.28	15.28	36.16	>500	Pass
Middle	10.24	14.72	13.52	35.52		
Highest	11.28	16.56	16.00	34.89		
Test CH	99% Occupy Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	13.28	16.32	17.44	36.32	N/A	N/A
Middle	14.48	16.64	17.68	36.00		
Highest	14.96	16.64	17.76	36.00		

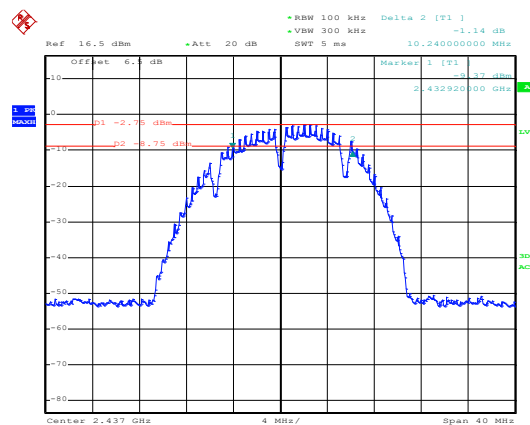
Test plot as follows:

6dB EBW Test mode: 802.11b



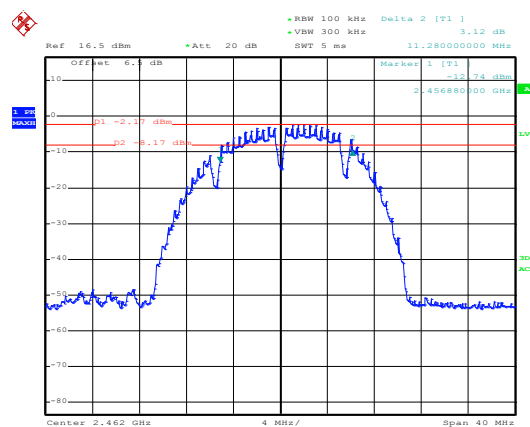
Date: 14.MAR.2017 16:10:03

Lowest channel



Date: 14.MAR.2017 16:14:19

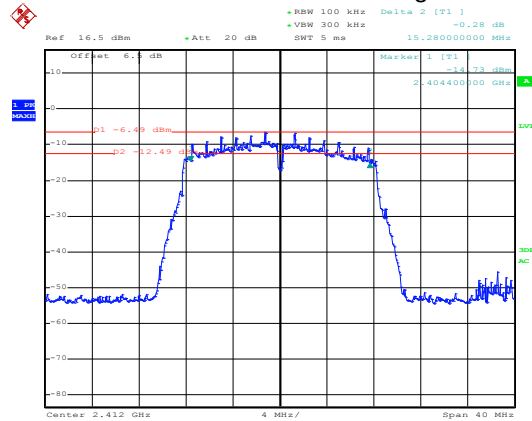
Middle channel



Date: 14.MAR.2017 16:16:57

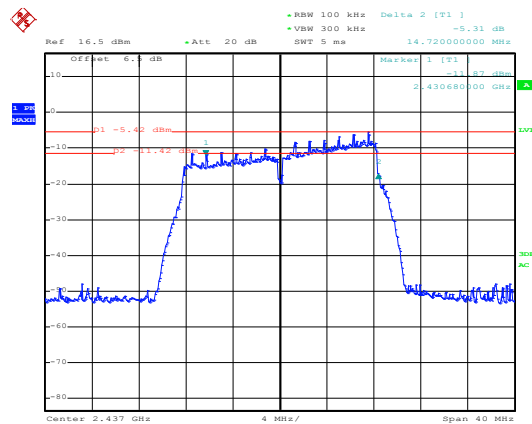
Highest channel

Test mode: 802.11g



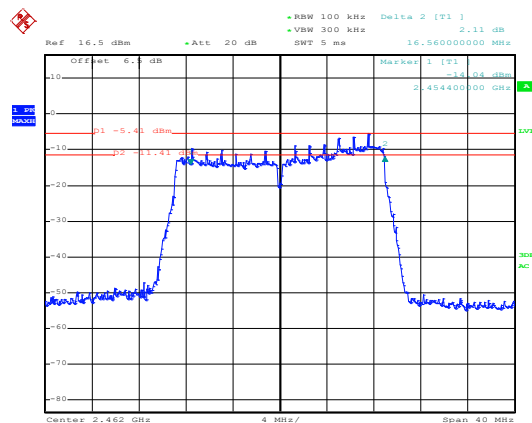
Date: 14.MAR.2017 16:28:31

Lowest channel



Date: 14.MAR.2017 16:30:29

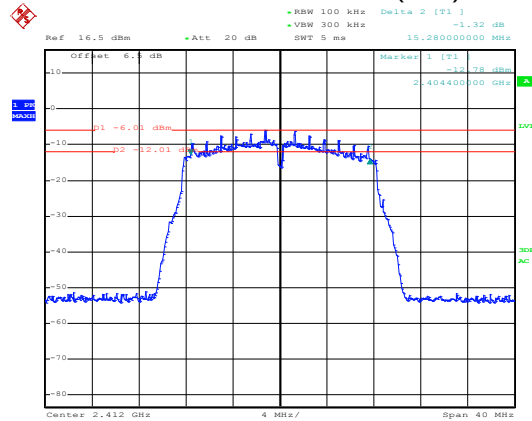
Middle channel



Date: 14.MAR.2017 16:33:46

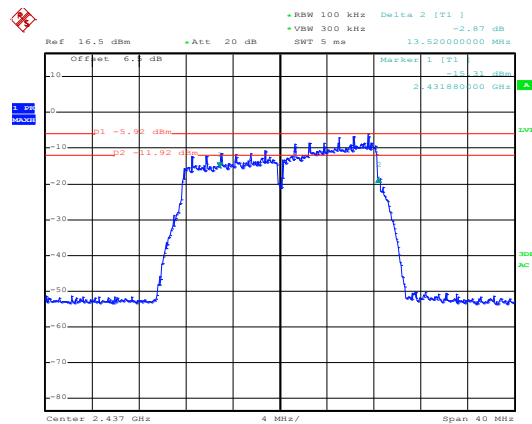
Highest channel

Test mode: 802.11n(H20)



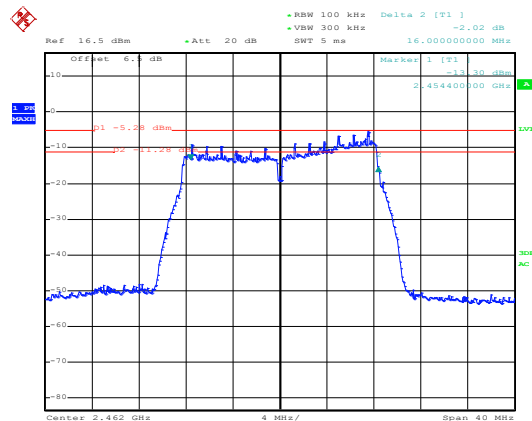
Date: 14.MAR.2017 16:18:52

Lowest channel



Date: 14.MAR.2017 16:25:14

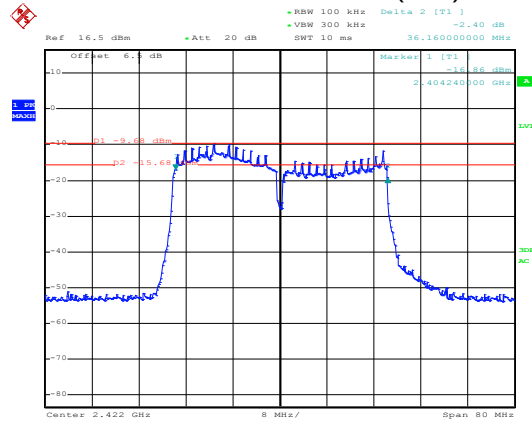
Middle channel



Date: 14.MAR.2017 16:27:08

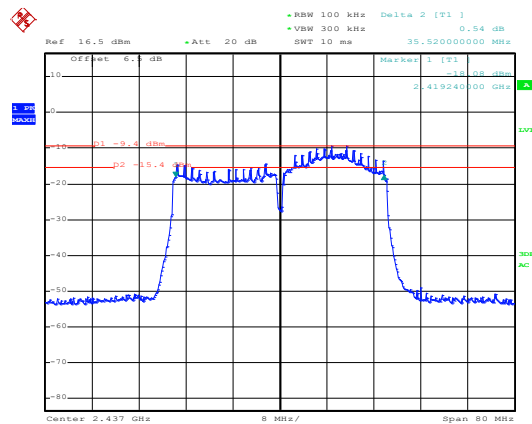
Highest channel

Test mode: 802.11n(H40)



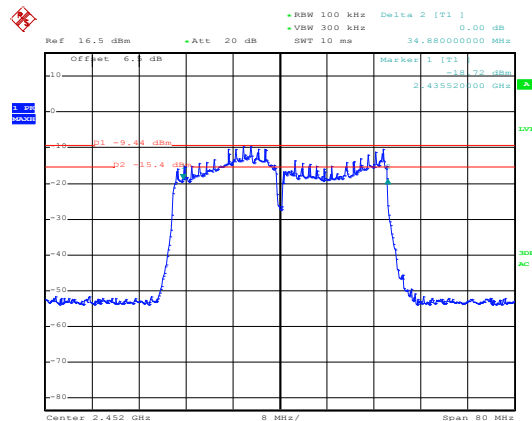
Date: 14.MAR.2017 16:35:11

Lowest channel



Date: 14.MAR.2017 16:36:37

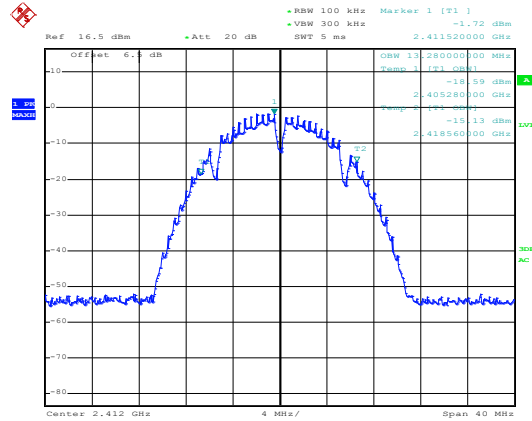
Middle channel



Date: 14.MAR.2017 16:39:34

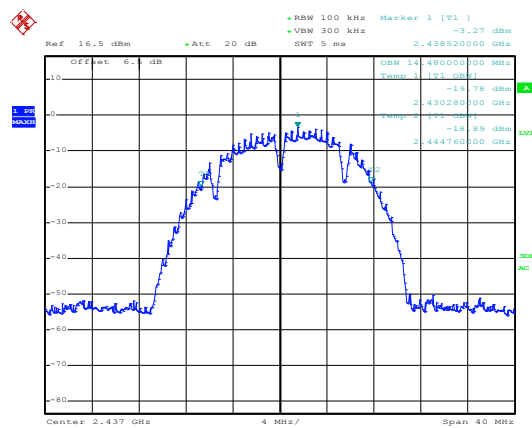
Highest channel

99% OBW Test mode: 802.11b



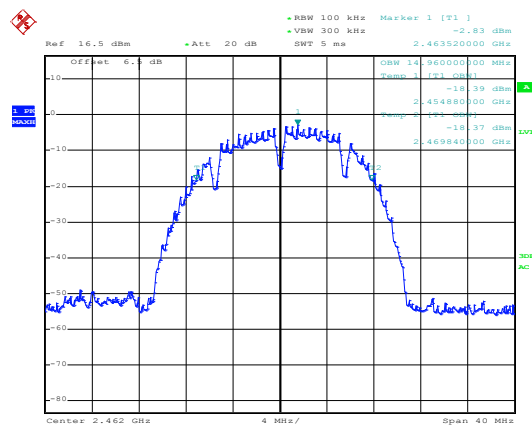
Date: 14.MAR.2017 16:41:19

Lowest channel



Date: 14.MAR.2017 16:41:33

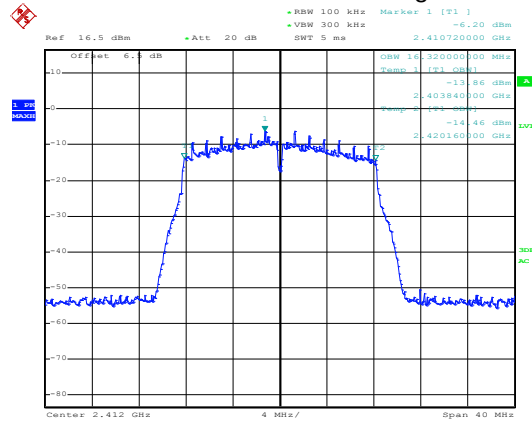
Middle channel



Date: 14.MAR.2017 16:42:05

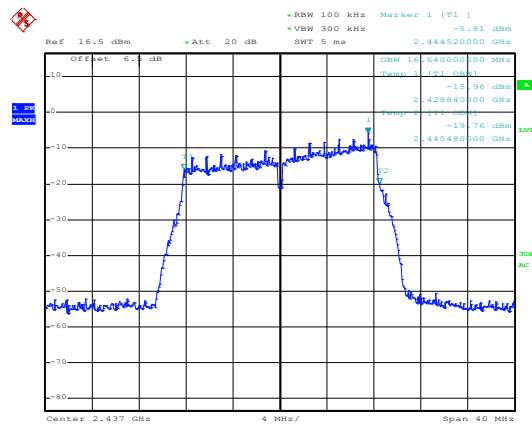
Highest channel

Test mode: 802.11g



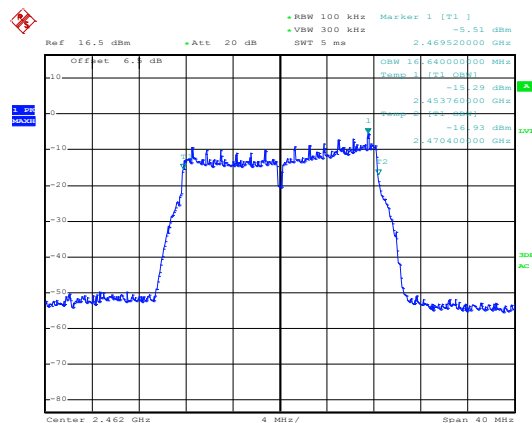
Date: 14.MAR.2017 16:42:30

Lowest channel



Date: 14.MAR.2017 16:42:46

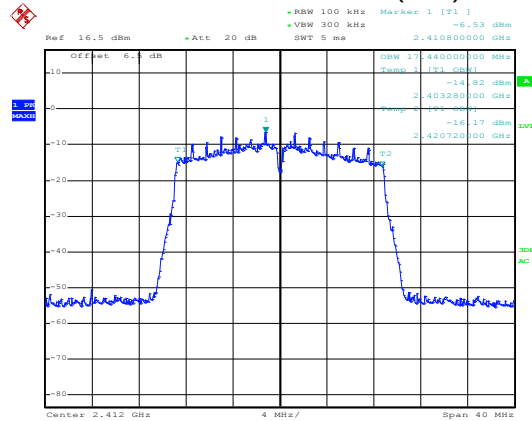
Middle channel



Date: 14.MAR.2017 16:43:04

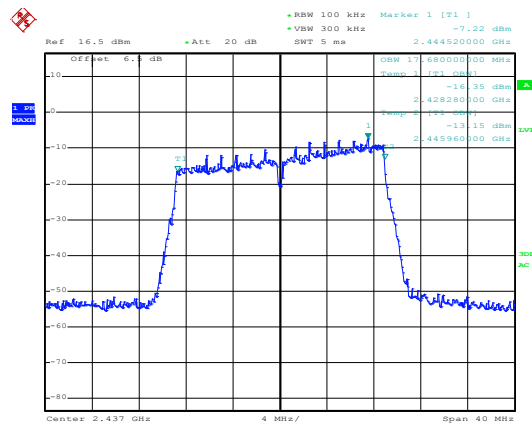
Highest channel

Test mode: 802.11n(H20)



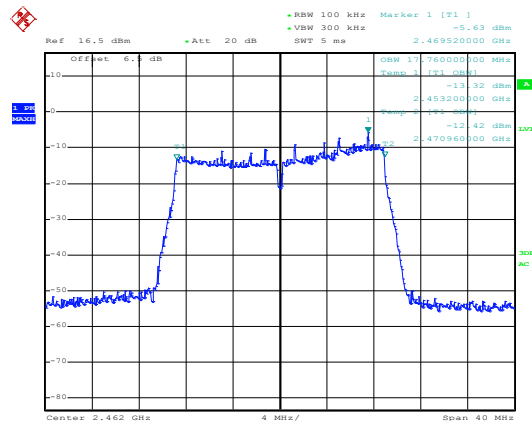
Date: 14.MAR.2017 16:43:28

Lowest channel



Date: 14.MAR.2017 16:43:42

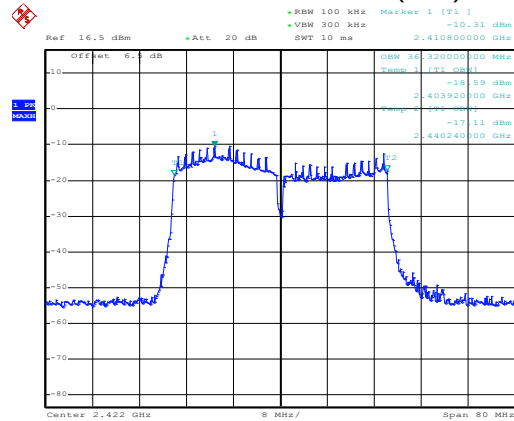
Middle channel



Date: 14.MAR.2017 16:43:57

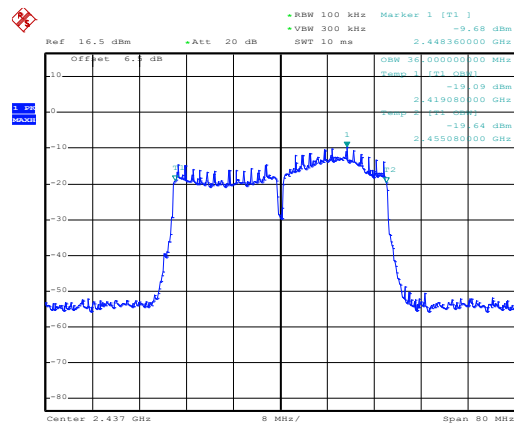
Highest channel

Test mode: 802.11n(H40)



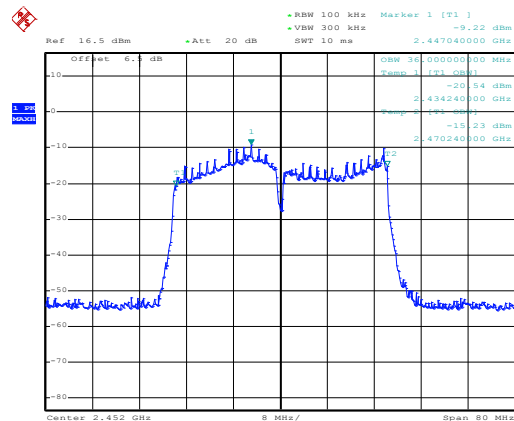
Date: 14.MAR.2017 16:44:24

Lowest channel



Date: 14.MAR.2017 16:44:41

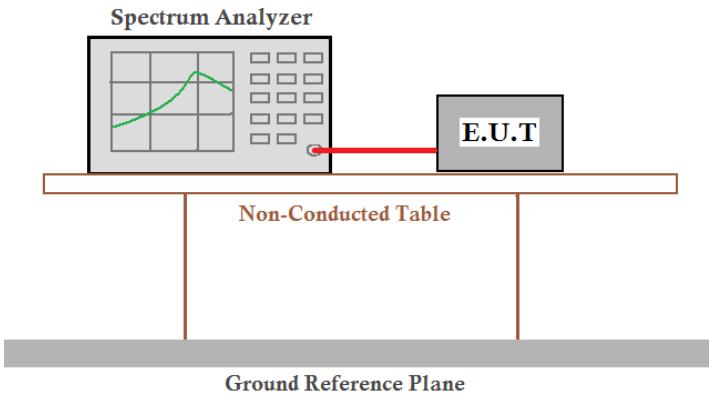
Middle channel



Date: 14.MAR.2017 16:44:59

Highest channel

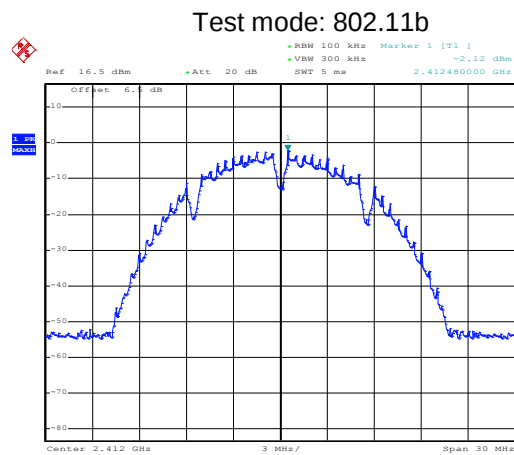
6.5 Power Spectral Density

Test Requirement:	FCC Part 15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 10.2
Limit:	8dBm
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 the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

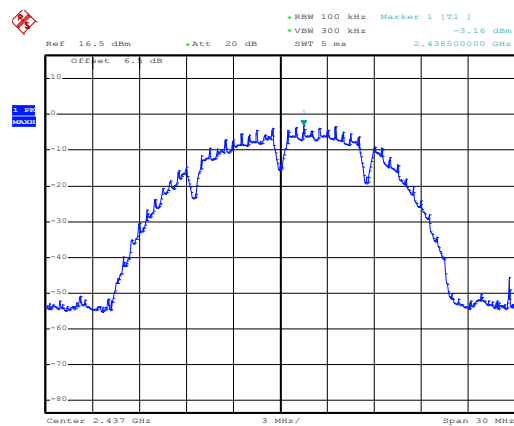
Test CH	Power Spectral Density (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	-2.12	-6.14	-6.26	-9.67	8.00	Pass
Middle	-3.16	-5.33	-5.39	-9.58		
Highest	-2.44	-5.88	-5.23	-9.12		

Test plot as follows:



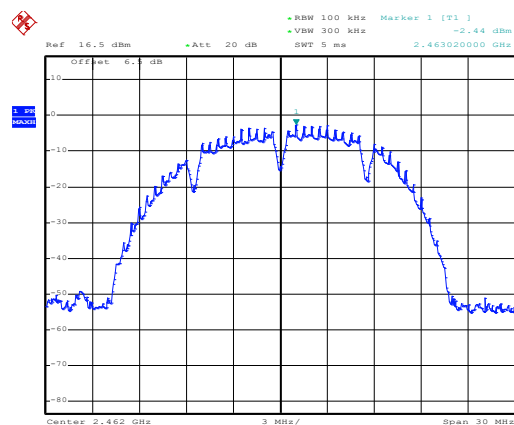
Date: 14.MAR.2017 16:46:34

Lowest channel



Date: 14.MAR.2017 16:47:06

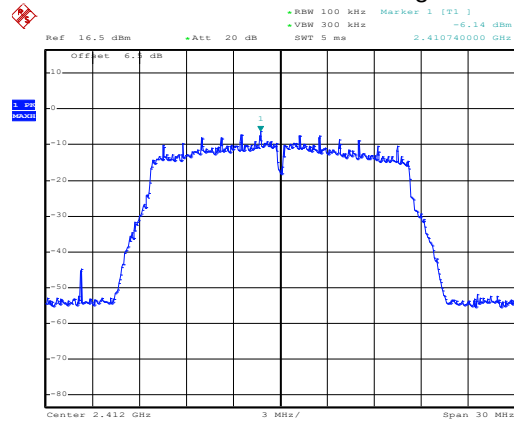
Middle channel



Date: 14.MAR.2017 16:47:40

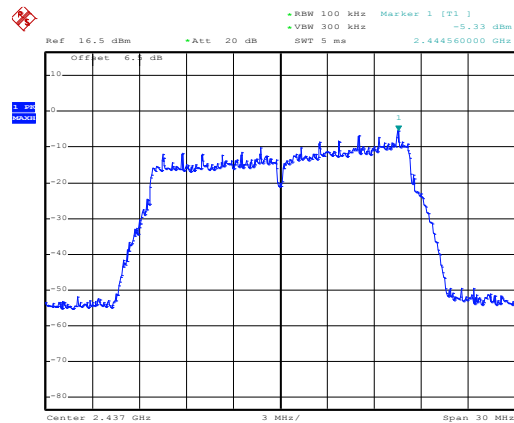
Highest channel

Test mode: 802.11g



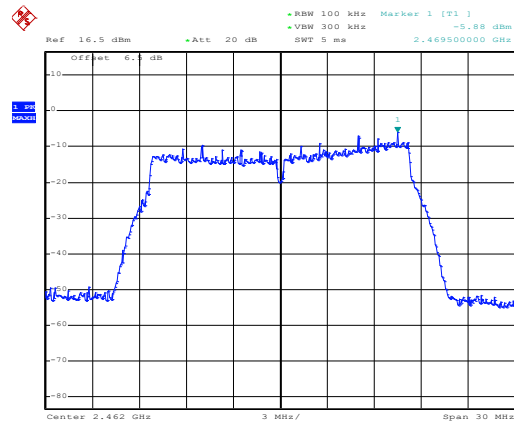
Date: 14.MAR.2017 16:48:11

Lowest channel



Date: 14.MAR.2017 16:48:34

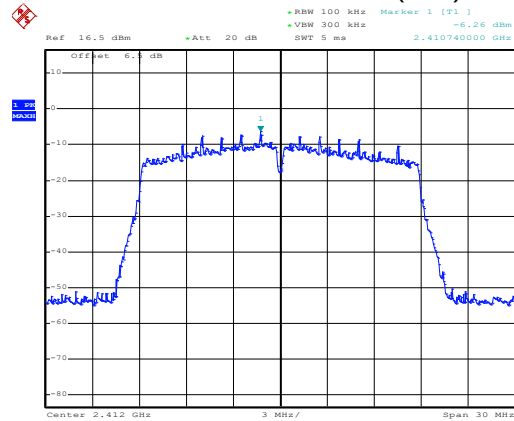
Middle channel



Date: 14.MAR.2017 16:49:07

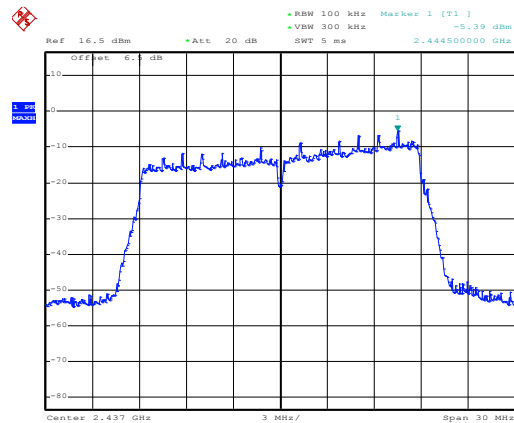
Highest channel

Test mode: 802.11n(H20)



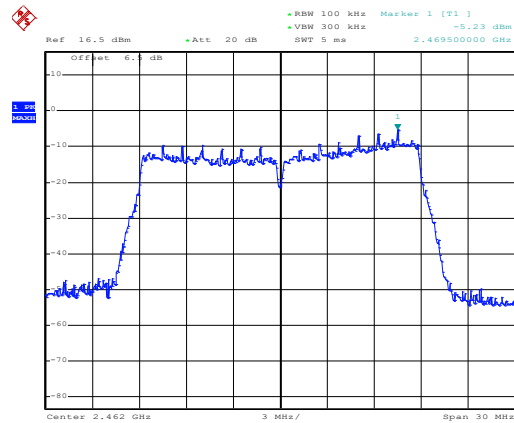
Date: 14.MAR.2017 16:49:45

Lowest channel



Date: 14.MAR.2017 16:50:15

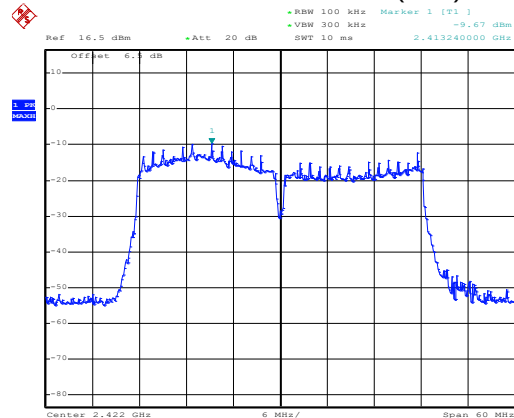
Middle channel



Date: 14.MAR.2017 16:50:38

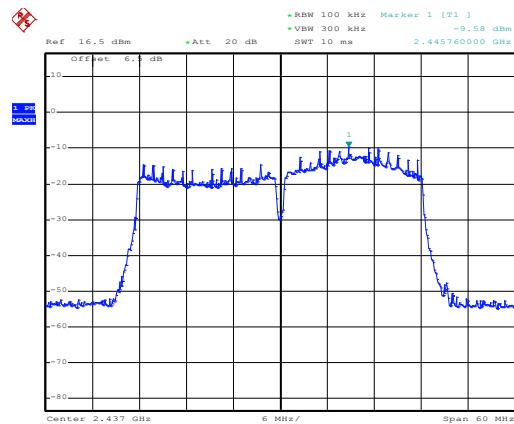
Highest channel

Test mode: 802.11n(H40)



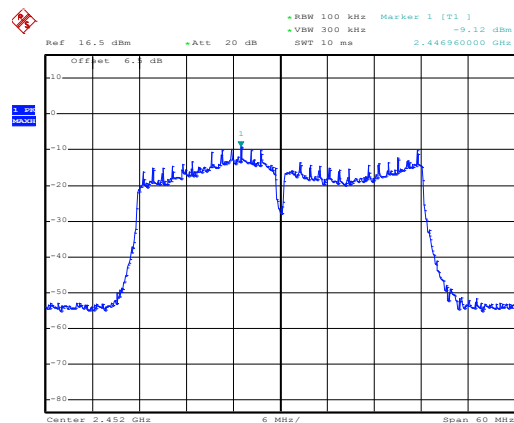
Date: 14.MAR.2017 16:51:42

Lowest channel



Date: 14.MAR.2017 16:52:04

Middle channel

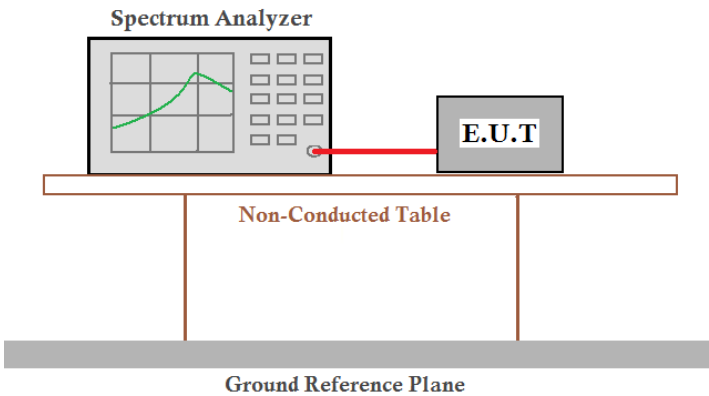


Date: 14.MAR.2017 16:52:28

Highest channel

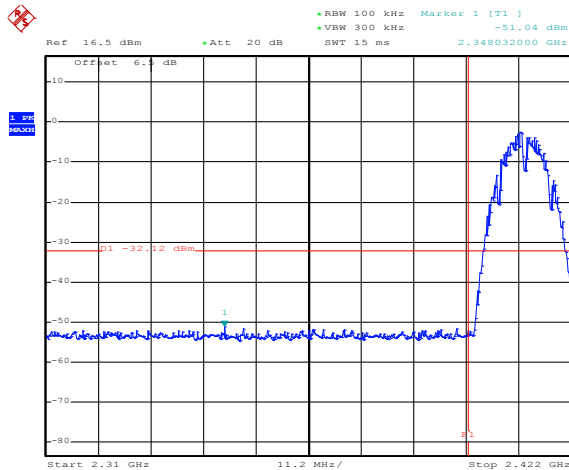
6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 13
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 for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane, represented by a thick grey bar.
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

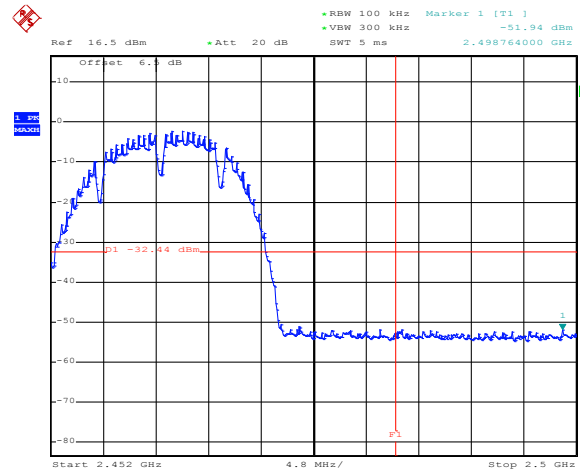
Test plot as follows:

802.11b



Date: 14.MAR.2017 16:53:54

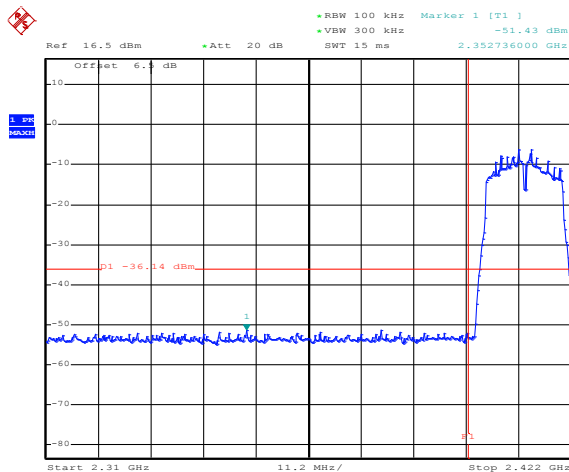
Lowest channel



Date: 14.MAR.2017 17:03:10

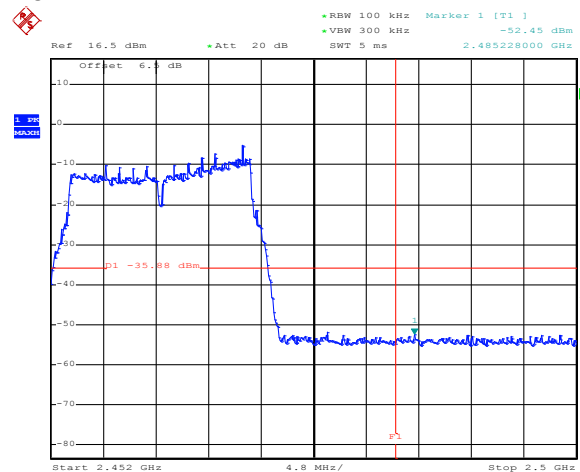
Highest channel

802.11g



Date: 14.MAR.2017 16:54:58

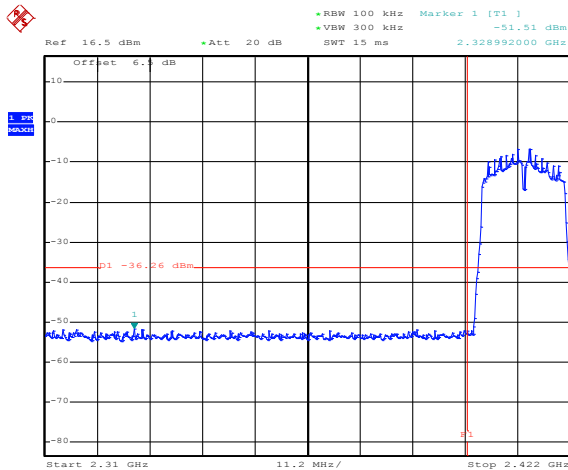
Lowest channel



Date: 14.MAR.2017 17:02:05

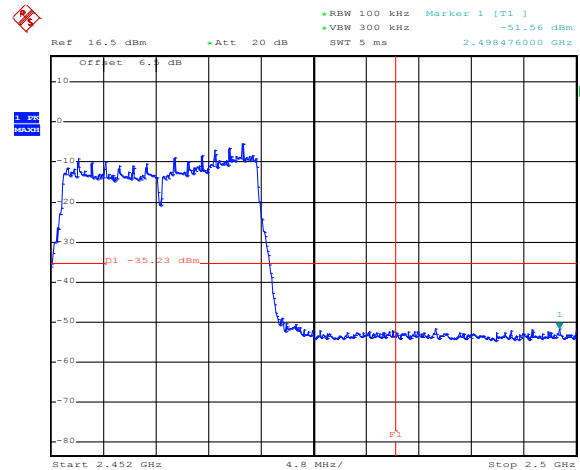
Highest channel

802.11n(H20)



Date: 14.MAR.2017 16:55:59

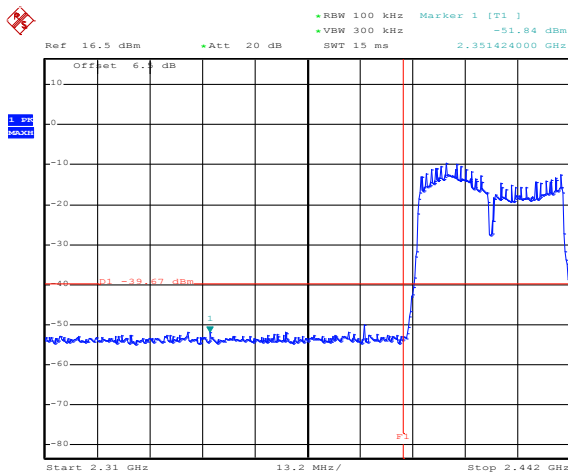
Lowest channel



Date: 14.MAR.2017 16:59:12

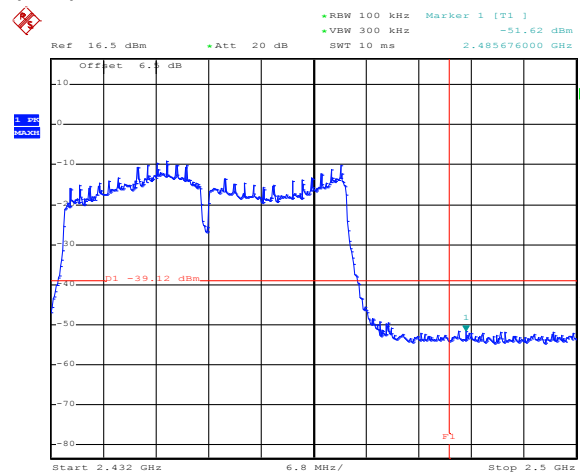
Highest channel

802.11n(H40)



Date: 14.MAR.2017 16:56:42

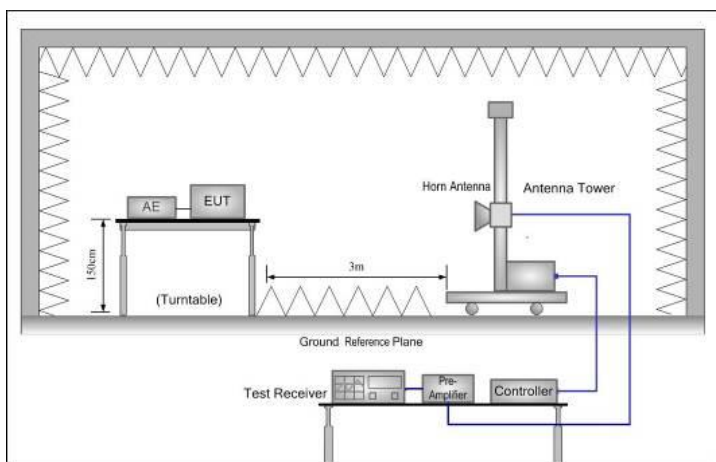
Lowest channel



Date: 14.MAR.2017 16:57:33

Highest channel

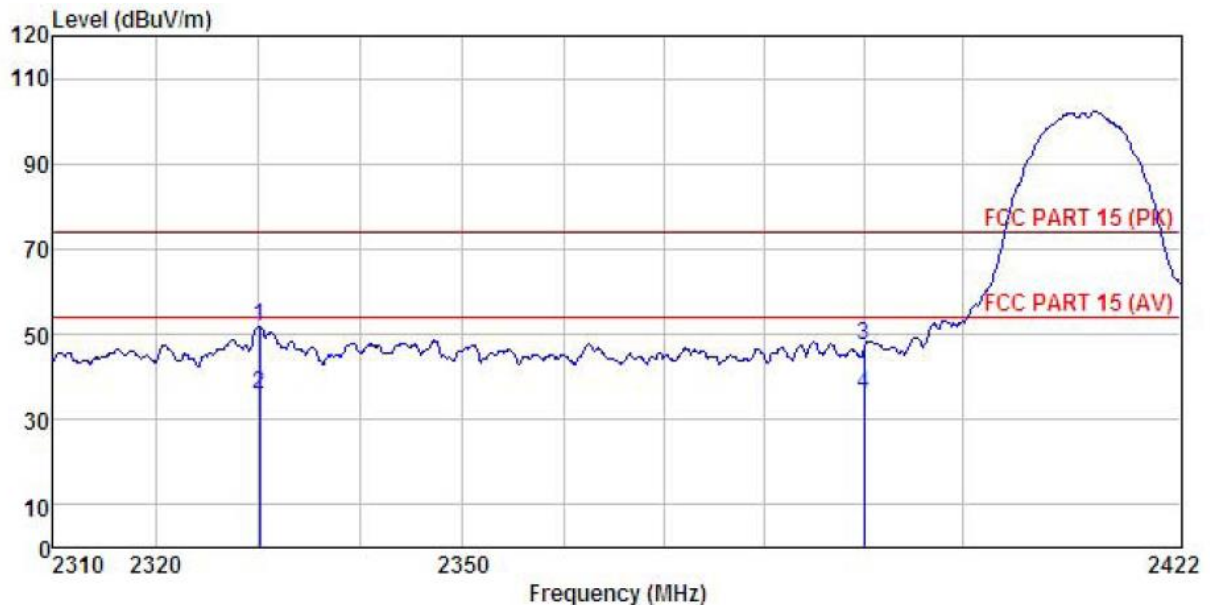
6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013 and KDB 558074v03r05 section 12.1				
Test Frequency Range:	2.3GHz to 2.5GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	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 1.5 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:					
Test Instruments:	Refer to section 5.6 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

802.11b

Test channel: Lowest

Horizontal:



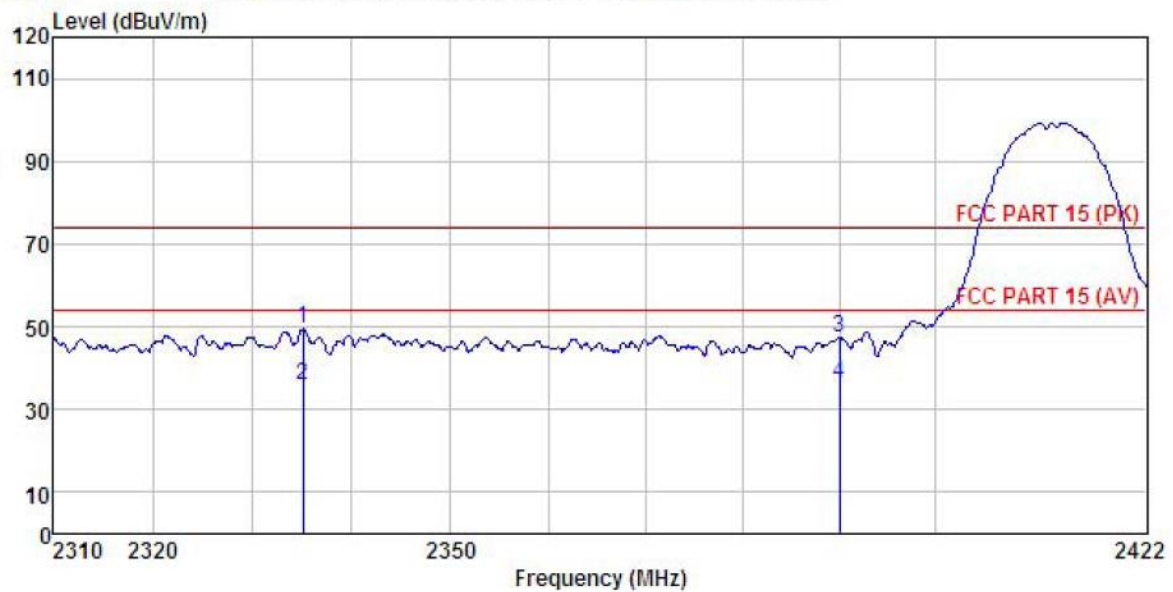
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Phablet
 Model : Aprix_Phat6
 Test mode : 802.11b-L mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2330.102	23.55	23.67	4.63	0.00	51.85	74.00	-22.15	Peak
2	2330.102	7.64	23.67	4.63	0.00	35.94	54.00	-18.06	Average
3	2390.000	18.84	23.68	4.69	0.00	47.21	74.00	-26.79	Peak
4	2390.000	7.46	23.68	4.69	0.00	35.83	54.00	-18.17	Average

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.

Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Phablet
 Model : Aprix_Phat6
 Test mode : 802.11b-L mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

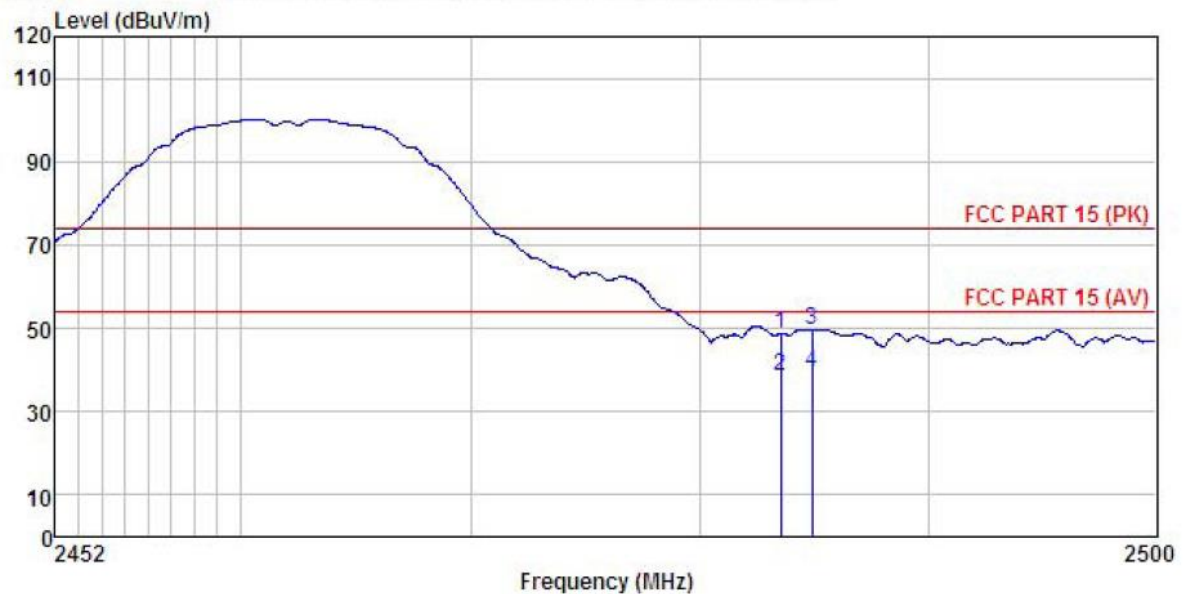
	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2335.071	21.22	23.67	4.63	0.00	49.52	74.00	-24.48	Peak
2	2335.071	7.37	23.67	4.63	0.00	35.67	54.00	-18.33	Average
3	2390.000	19.08	23.68	4.69	0.00	47.45	74.00	-26.55	Peak
4	2390.000	7.74	23.68	4.69	0.00	36.11	54.00	-17.89	Average

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.

Test channel: Highest

Horizontal:



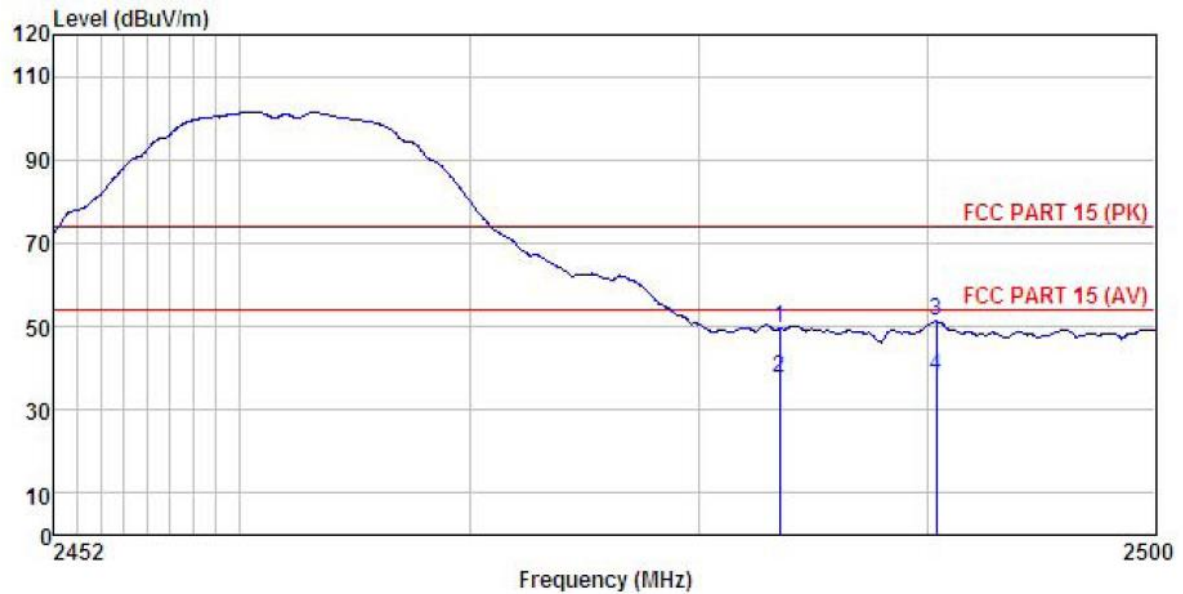
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Phablet
 Model : Aprix_Phat6
 Test mode : 802.11b-H mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

		ReadAntenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	20.22	23.70	4.81	0.00	48.73	74.00	-25.27 Peak
2	2483.500	10.08	23.70	4.81	0.00	38.59	54.00	-15.41 Average
3	2484.876	21.27	23.70	4.81	0.00	49.78	74.00	-24.22 Peak
4	2484.876	10.80	23.70	4.81	0.00	39.31	54.00	-14.69 Average

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.

Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Phablet
 Model : Aprix_Phat6
 Test mode : 802.11b-H mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

	Freq	Read	Antenna	Cable	Preamp		Limit	Over	
		Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	20.90	23.70	4.81	0.00	49.41	74.00	-24.59	Peak
2	2483.500	9.32	23.70	4.81	0.00	37.83	54.00	-16.17	Average
3	2490.374	22.65	23.70	4.82	0.00	51.17	74.00	-22.83	Peak
4	2490.374	9.62	23.70	4.82	0.00	38.14	54.00	-15.86	Average

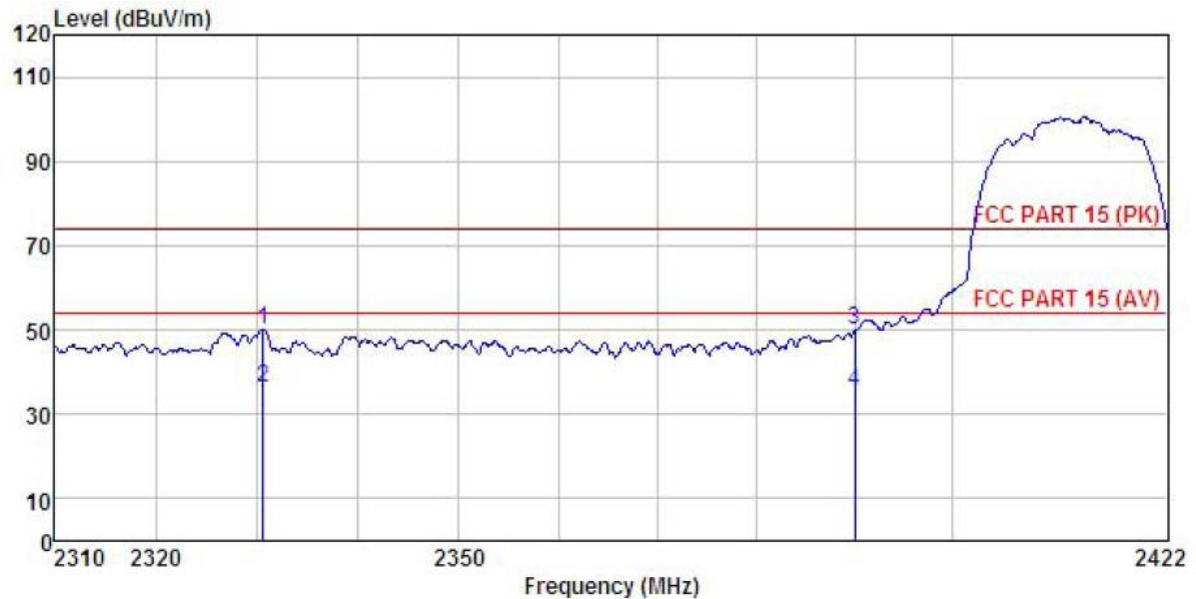
Remark:

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.

802.11g

Test channel: Lowest

Horizontal:



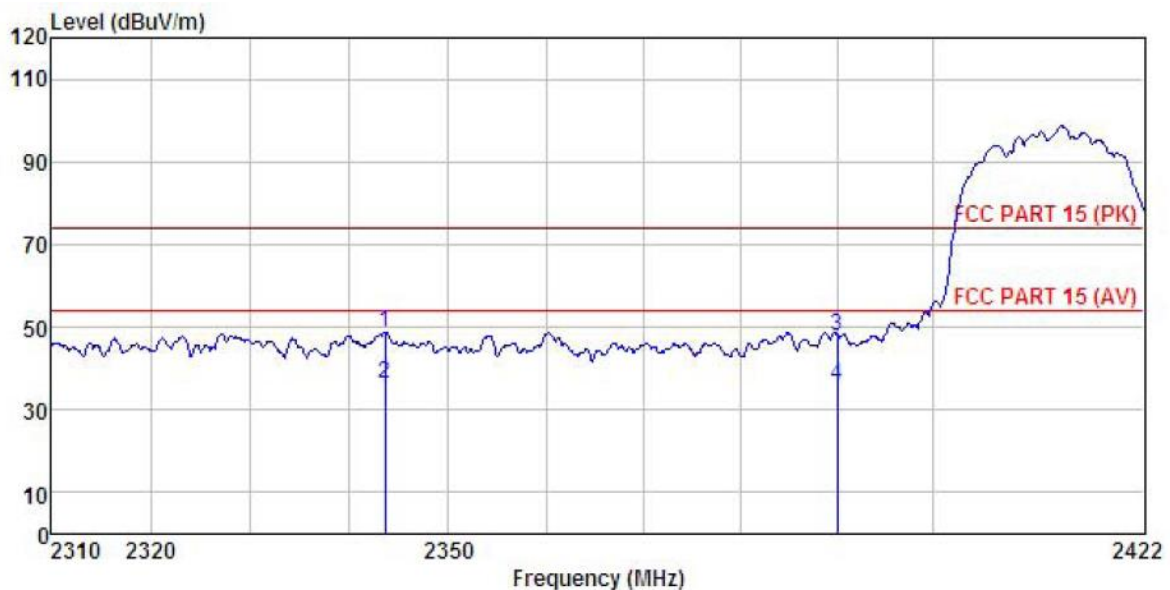
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Phablet
 Model : Aprix_Ph4t6
 Test mode : 802.11g-L mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

	Freq	ReadAntenna	Cable Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2330.543	21.89	23.67	4.63	0.00	50.19	74.00	-23.81 Peak
2	2330.543	7.79	23.67	4.63	0.00	36.09	54.00	-17.91 Average
3	2390.000	21.66	23.68	4.69	0.00	50.03	74.00	-23.97 Peak
4	2390.000	7.24	23.68	4.69	0.00	35.61	54.00	-18.39 Average

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.

Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Phablet
 Model : Aprix_Phat6
 Test mode : 802.11g-L mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

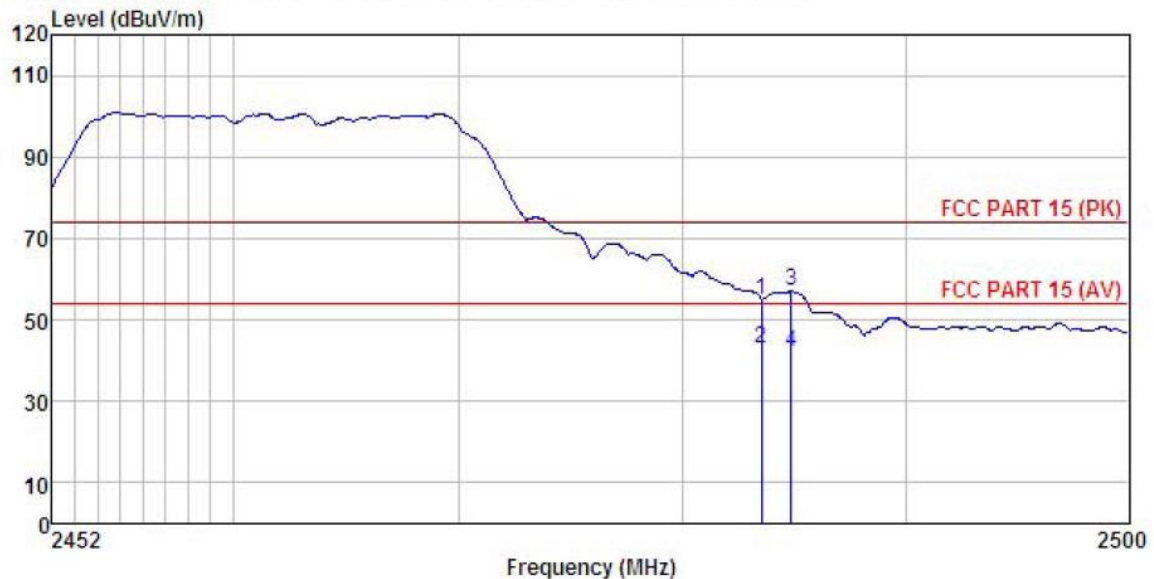
	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	dBuV/m	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2343.600	20.45	23.67	4.65	0.00	48.77	74.00	-25.23	Peak
2	2343.600	7.96	23.67	4.65	0.00	36.28	54.00	-17.72	Average
3	2390.000	19.30	23.68	4.69	0.00	47.67	74.00	-26.33	Peak
4	2390.000	7.58	23.68	4.69	0.00	35.95	54.00	-18.05	Average

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.

Test channel: Highest

Horizontal:



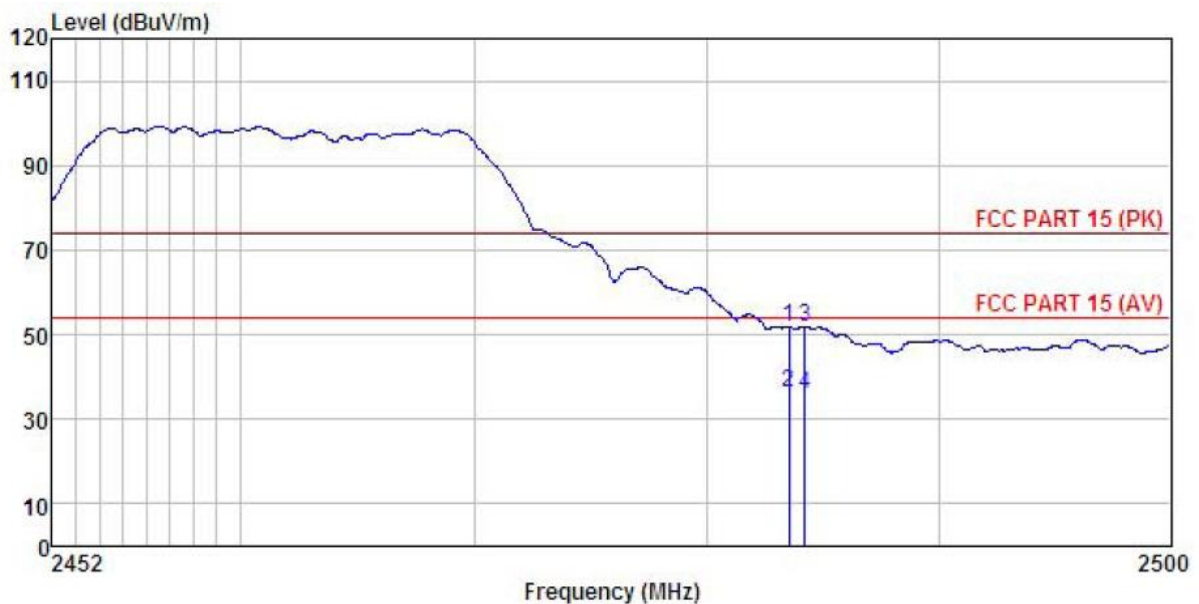
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Phablet
 Model : Aprix_Phat6
 Test mode : 802.11g-H mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

	Freq	Read	Antenna	Cable	Preamp	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	dBuV/m	dBuV/m	Limit	Remark
		dBuV	dB/m	dB	dB			dB	
1	2483.500	26.57	23.70	4.81	0.00	55.08	74.00	-18.92	Peak
2	2483.500	14.38	23.70	4.81	0.00	42.89	54.00	-11.11	Average
3	2484.828	28.41	23.70	4.81	0.00	56.92	74.00	-17.08	Peak
4	2484.828	13.58	23.70	4.81	0.00	42.09	54.00	-11.91	Average

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.

Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Phablet
 Model : Aprix_Phat6
 Test mode : 802.11g-H mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

	ReadAntenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit
-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 2483.500	23.17	23.70	4.81	0.00	51.68	74.00	-22.32 Peak
2 2483.500	7.83	23.70	4.81	0.00	36.34	54.00	-17.66 Average
3 2484.201	23.37	23.70	4.81	0.00	51.88	74.00	-22.12 Peak
4 2484.201	7.28	23.70	4.81	0.00	35.79	54.00	-18.21 Average

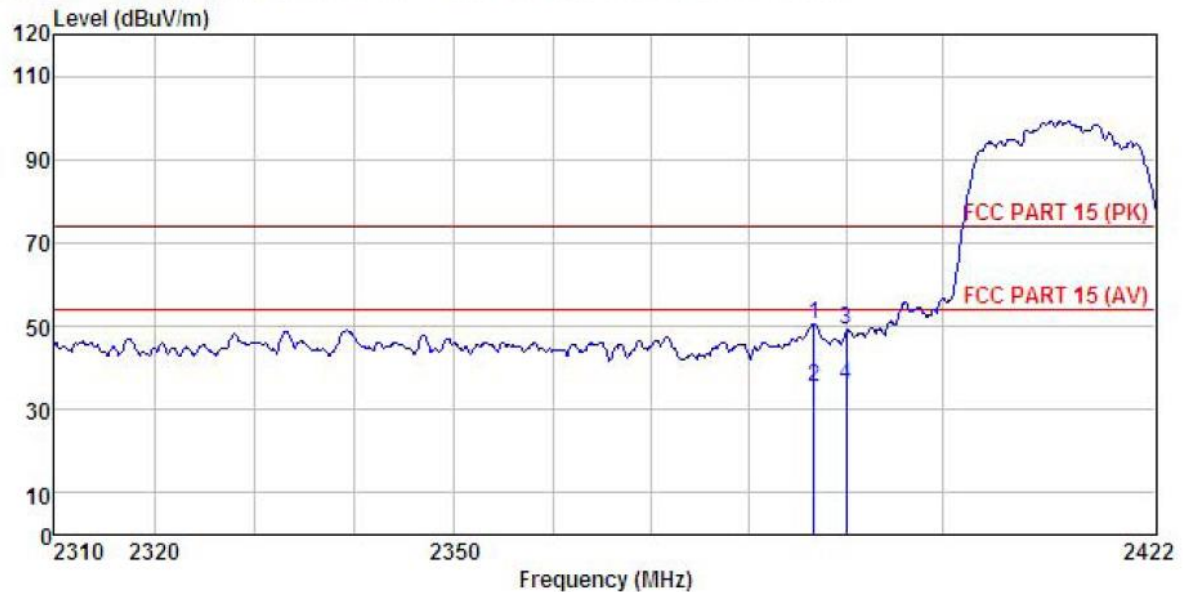
Remark:

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.

802.11n (H20)

Test channel: Lowest

Horizontal:



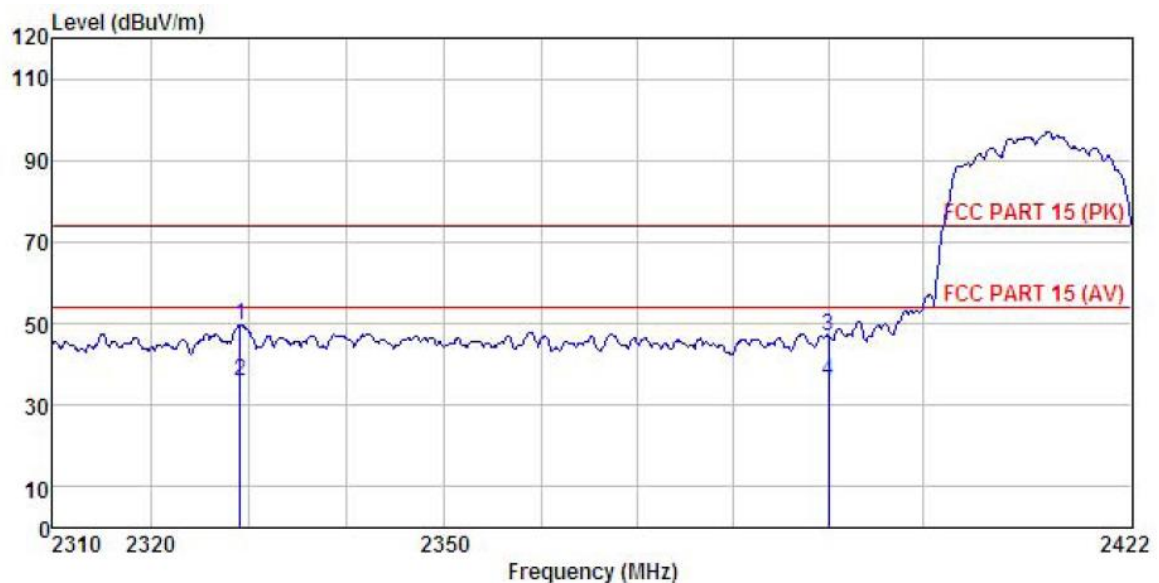
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Phablet
 Model : Aprix_Phata6
 Test mode : 802.11n20-L mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

	Freq	ReadAntenna	Cable Preamp			Limit	Over	
		Level Factor	Loss Factor			Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2386.711	22.14	23.68	4.69	0.00	50.51	74.00	-23.49 Peak
2	2386.711	7.24	23.68	4.69	0.00	35.61	54.00	-18.39 Average
3	2390.000	20.60	23.68	4.69	0.00	48.97	74.00	-25.03 Peak
4	2390.000	7.59	23.68	4.69	0.00	35.96	54.00	-18.04 Average

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.

Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Phablet
 Model : Aprix Phat6
 Test mode : 802.11n20-L mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

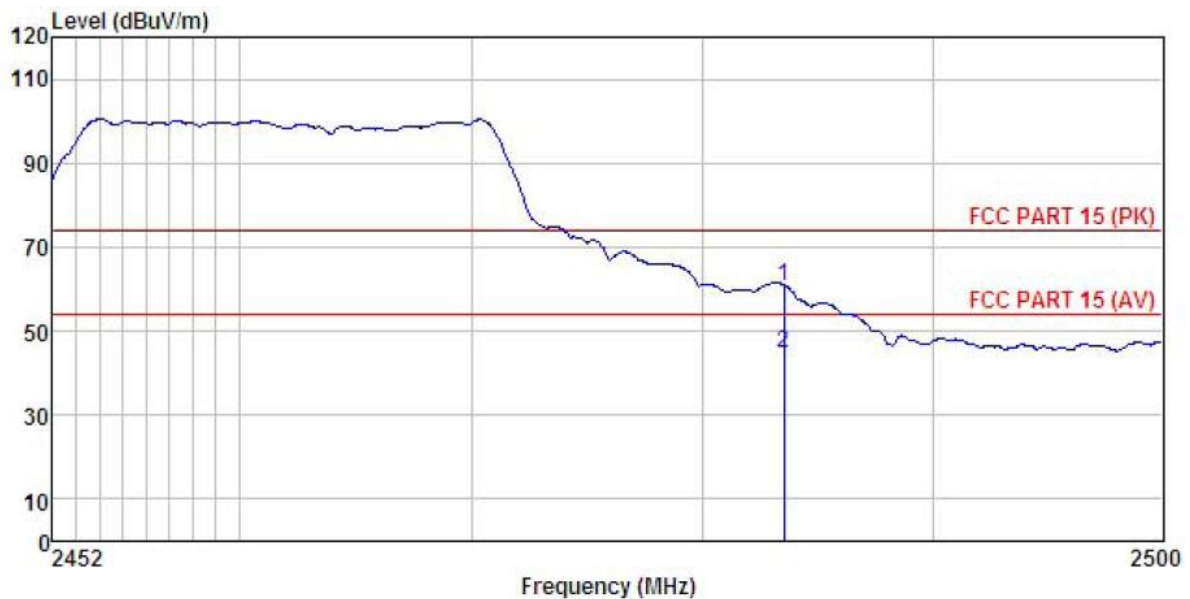
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2329.109	21.20	23.67	4.63	0.00	49.50	74.00	-24.50	Peak
2	2329.109	7.54	23.67	4.63	0.00	35.84	54.00	-18.16	Average
3	2390.000	18.46	23.68	4.69	0.00	46.83	74.00	-27.17	Peak
4	2390.000	7.65	23.68	4.69	0.00	36.02	54.00	-17.98	Average

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.

Test channel: Highest

Horizontal:



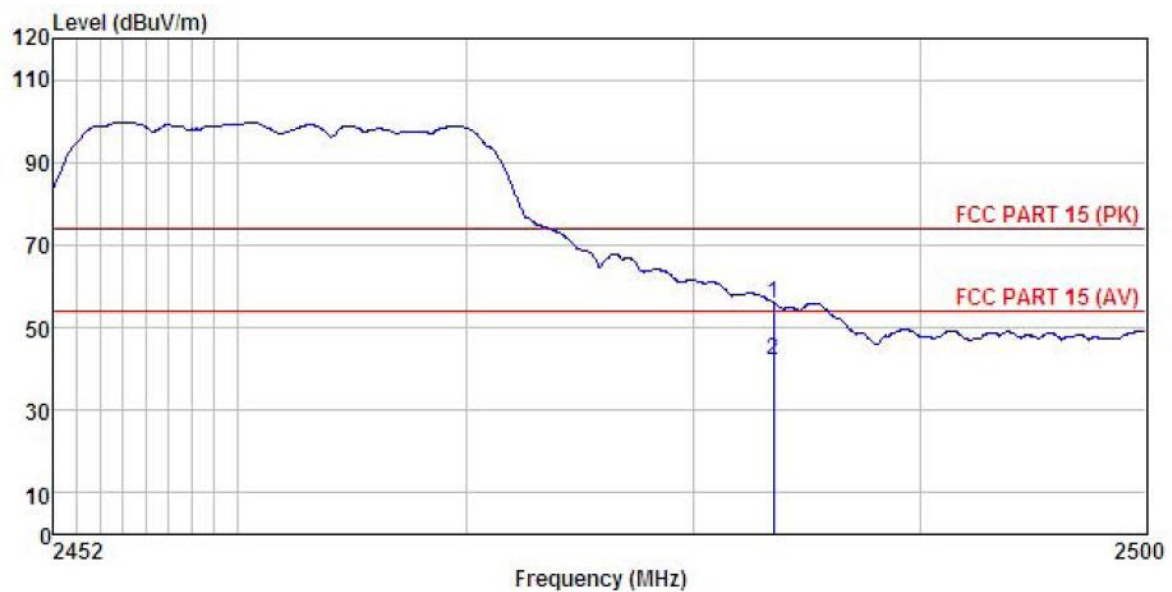
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Phablet
 Model : Aprix_Ph4t6
 Test mode : 802.11n20-H mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	32.32	23.70	4.81	0.00	60.83	74.00	-13.17	Peak
2	2483.500	16.15	23.70	4.81	0.00	44.66	54.00	-9.34	Average

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.

Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Phablet
 Model : Aprix_Phlat6
 Test mode : 802.11n20-H mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

	Freq	ReadAntenna	Cable	Preamp	Limit	Over	
	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2483.500	27.43	23.70	4.81	0.00	55.94	74.00 -18.06 Peak
2	2483.500	13.55	23.70	4.81	0.00	42.06	54.00 -11.94 Average

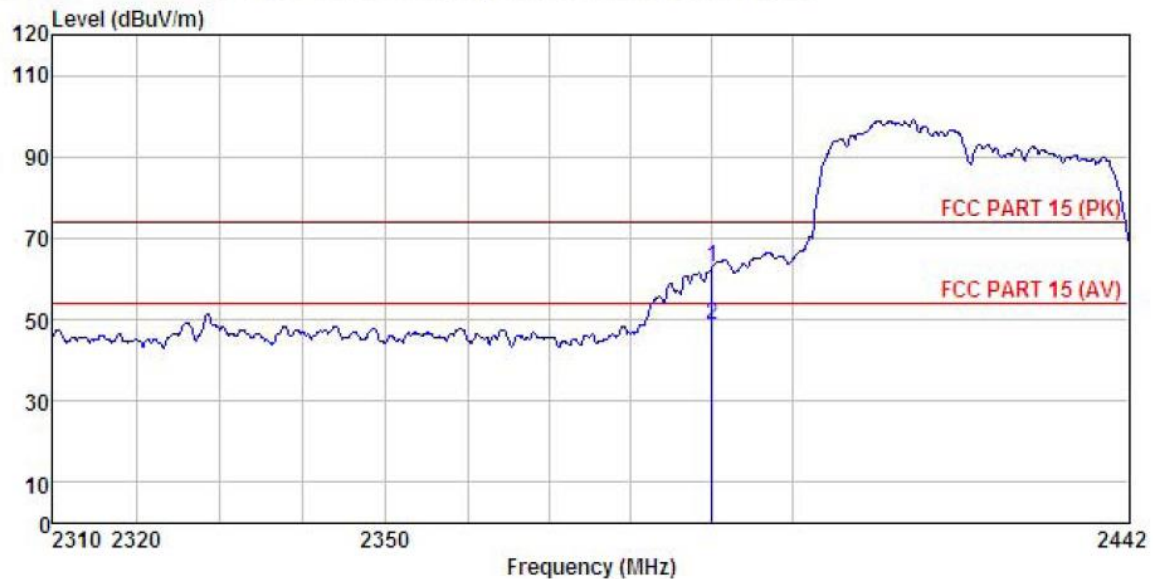
Remark:

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.

802.11n (H40)

Test channel: Lowest

Horizontal:



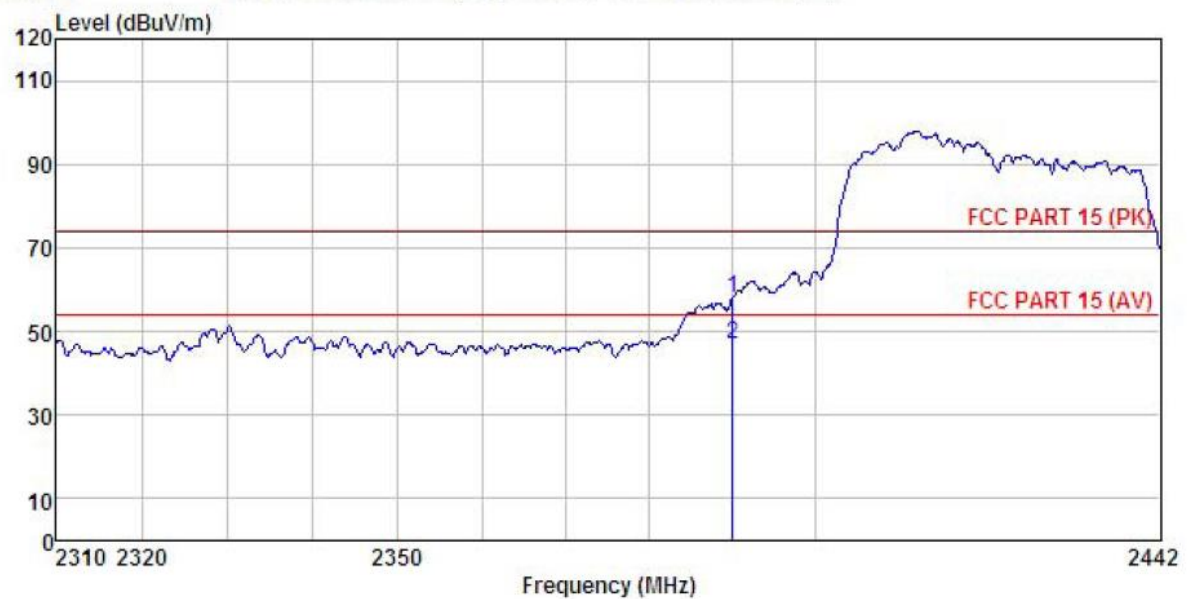
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Phablet
 Model : Aprix_Ph4t6
 Test mode : 802.11n40-L mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	34.61	23.68	4.69	0.00	62.98	74.00	-11.02	Peak
2	2390.000	20.39	23.68	4.69	0.00	48.76	54.00	-5.24	Average

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.

Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Phablet
 Model : Aprix_Phat6
 Test mode : 802.11n40-L mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

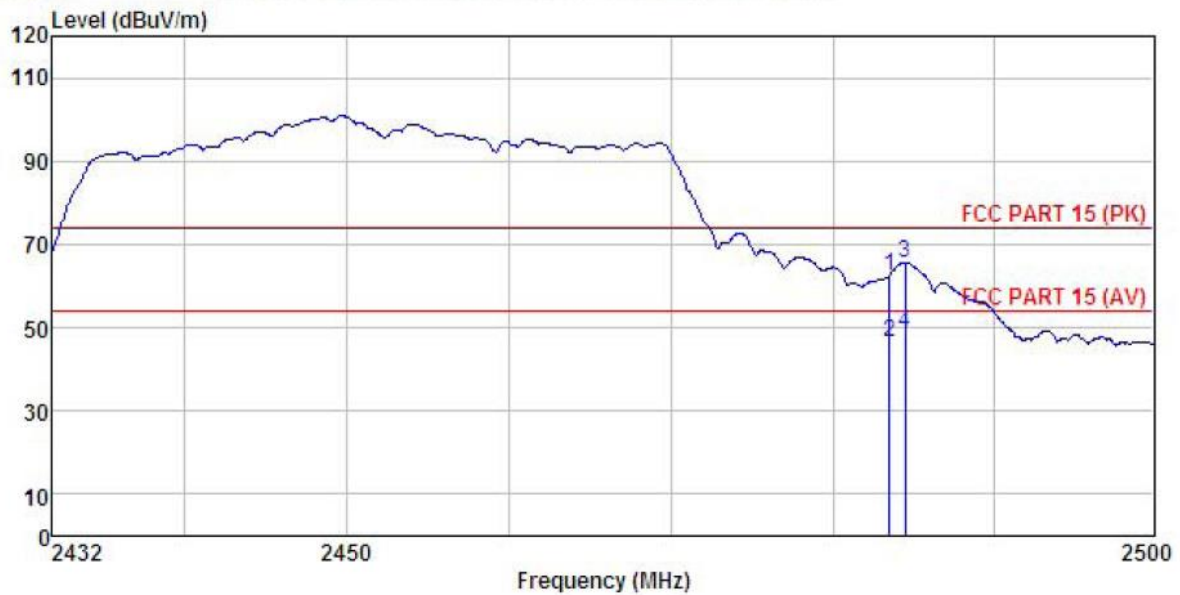
		ReadAntenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	29.60	23.68	4.69	0.00	57.97	74.00	-16.03 Peak
2	2390.000	18.51	23.68	4.69	0.00	46.88	54.00	-7.12 Average

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.

Test channel: Highest

Horizontal:



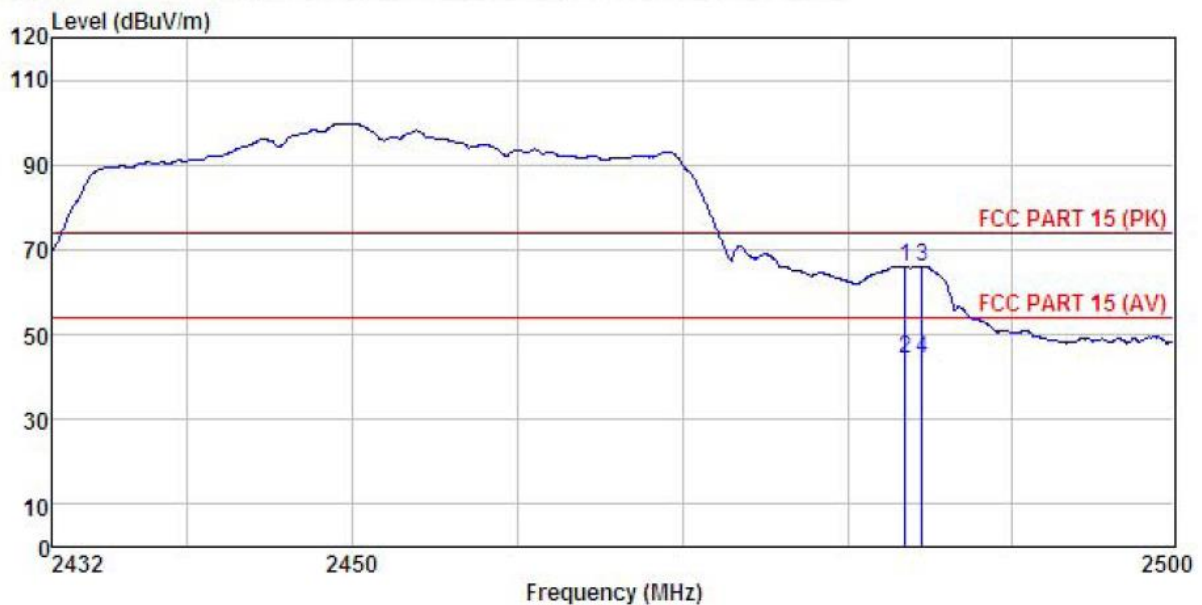
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
 EUT : Phablet
 Model : Aprix_Phlat6
 Test mode : 802.11n40-H mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

		ReadAntenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	33.98	23.70	4.81	0.00	62.49	74.00	-11.51 Peak
2	2483.500	18.20	23.70	4.81	0.00	46.71	54.00	-7.29 Average
3	2484.468	37.10	23.70	4.81	0.00	65.61	74.00	-8.39 Peak
4	2484.468	20.12	23.70	4.81	0.00	48.63	54.00	-5.37 Average

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.

Vertical:



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
 EUT : Phablet
 Model : Aprix_Phat6
 Test mode : 802.11n40-H mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

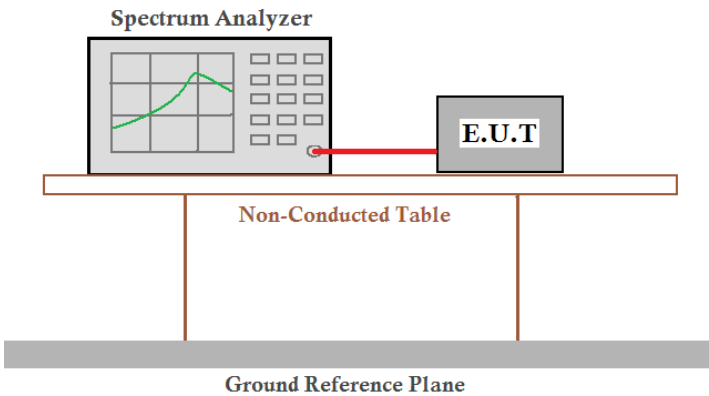
	Freq	Read	Antenna	Cable	Preamp	Limit	Over	
	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	37.47	23.70	4.81	0.00	65.98	74.00	-8.02 Peak
2	2483.500	15.75	23.70	4.81	0.00	44.26	54.00	-9.74 Average
3	2484.536	37.69	23.70	4.81	0.00	66.20	74.00	-7.80 Peak
4	2484.536	15.85	23.70	4.81	0.00	44.36	54.00	-9.64 Average

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

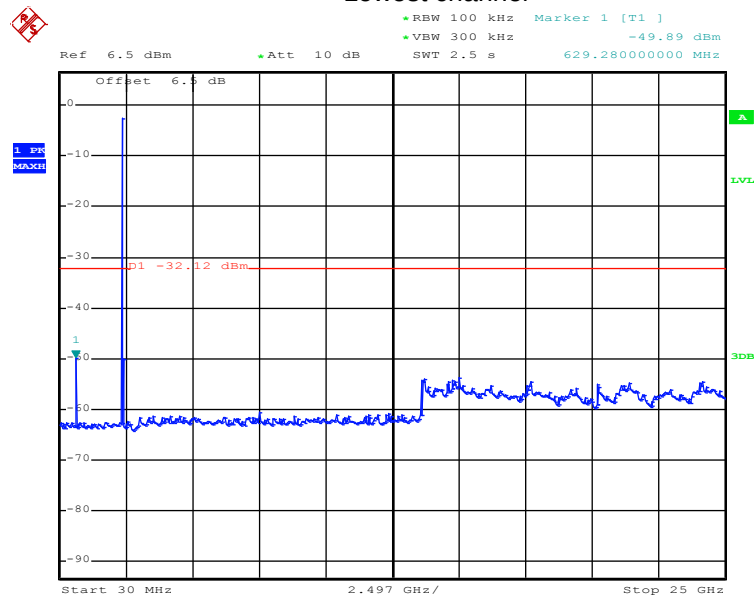
6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 11
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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer, shown with a grid and a green curve on its screen, is connected by a red cable to a box labeled 'E.U.T.'. Both the Spectrum Analyzer and the E.U.T. are positioned on a 'Non-Conducted Table'. This table is supported by two vertical legs, which rest on a 'Ground Reference Plane' represented by a thick grey bar at the bottom.
Test Instruments:	Refer to section 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Test plot as follows:

Test mode: 802.11b

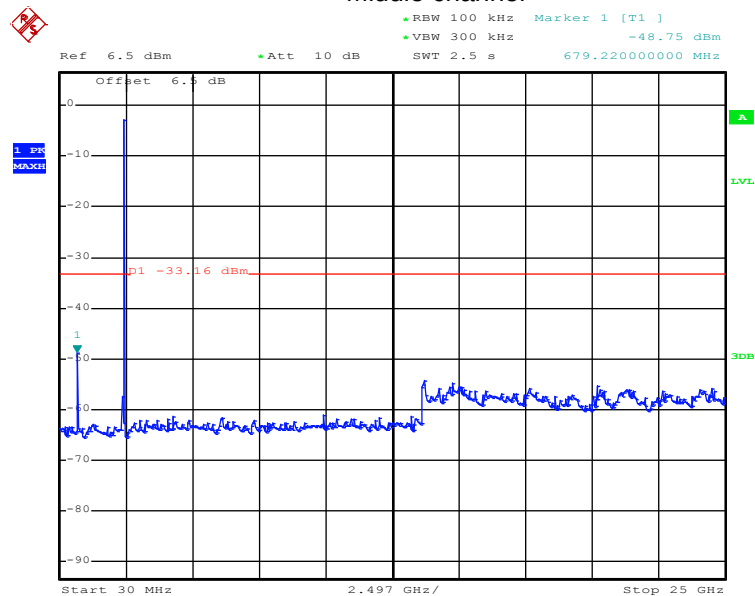
Lowest channel



Date: 15.MAR.2017 02:30:59

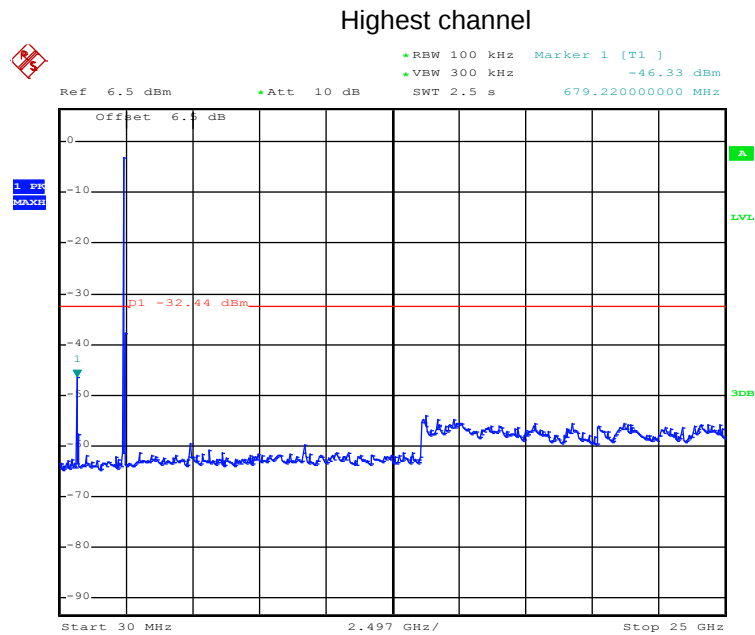
30MHz~25GHz

Middle channel



Date: 15.MAR.2017 02:15:55

30MHz~25GHz

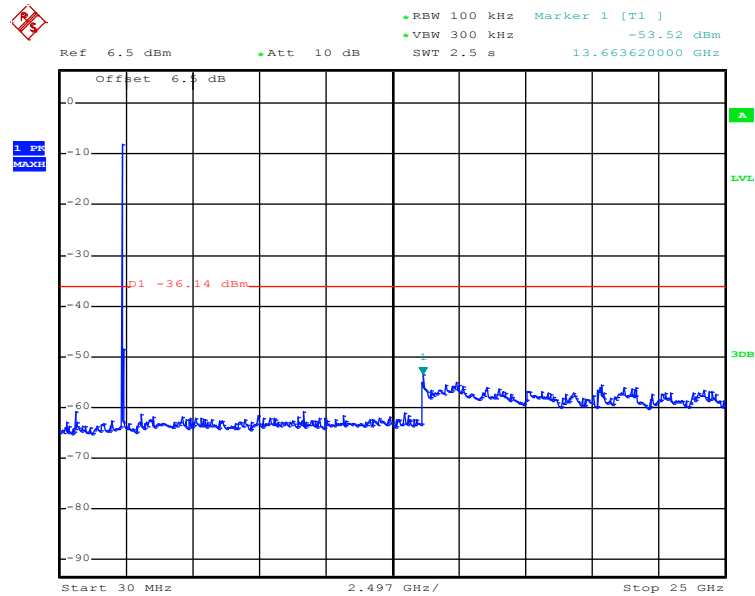


Date: 15.MAR.2017 02:16:52

30MHz~25GHz

Test mode: 802.11g

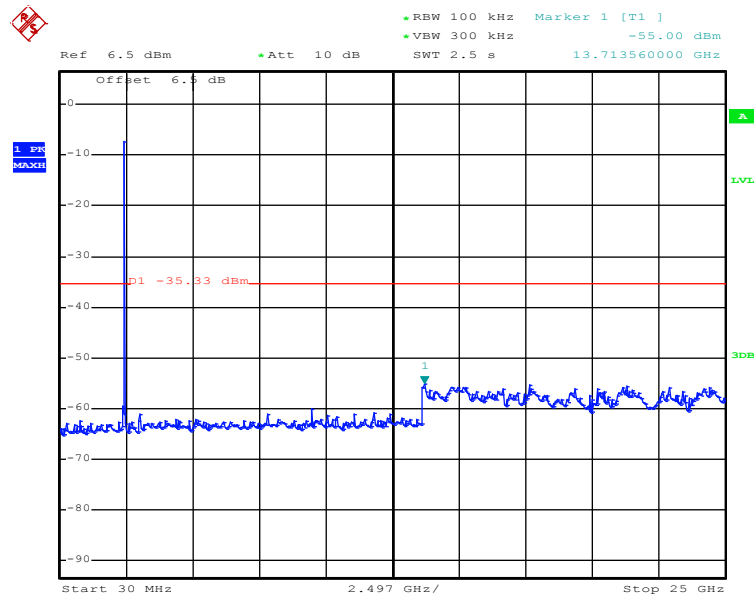
Lowest channel



Date: 15.MAR.2017 02:17:46

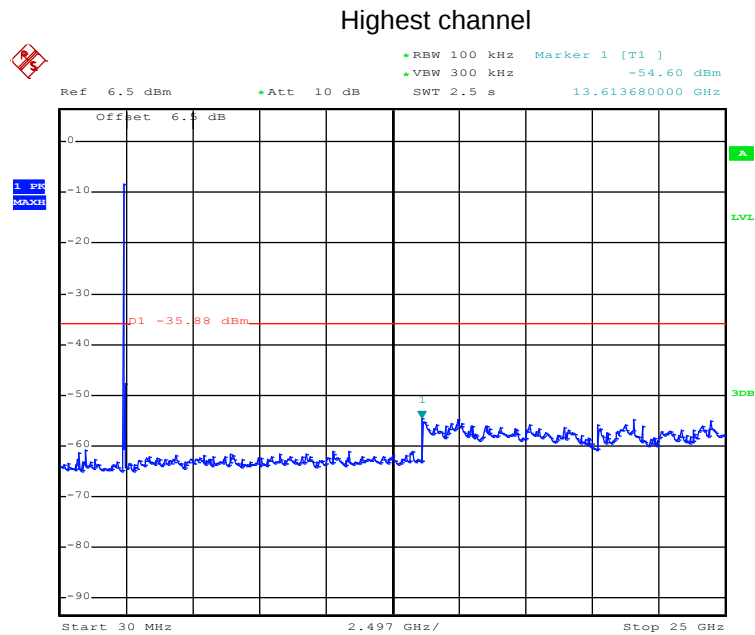
30MHz~25GHz

Middle channel



Date: 15.MAR.2017 02:18:56

30MHz~25GHz

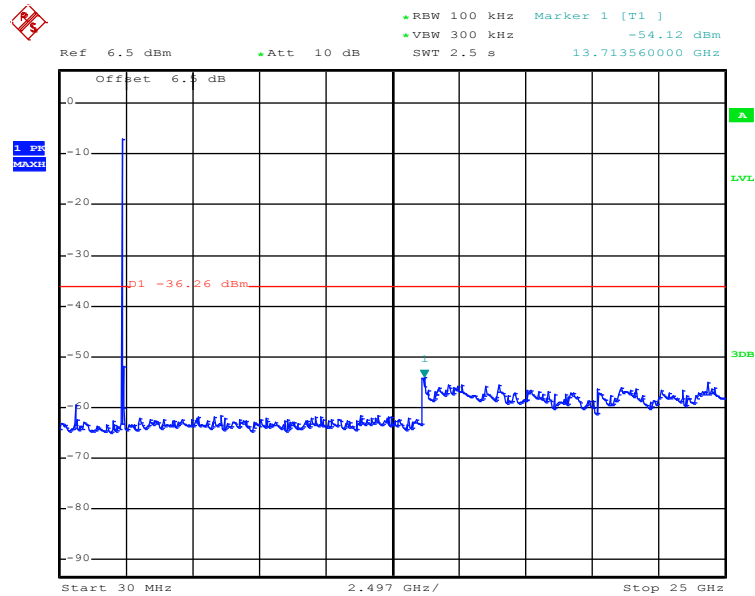


Date: 15.MAR.2017 02:20:09

30MHz~25GHz

Test mode: 802.11n(H20)

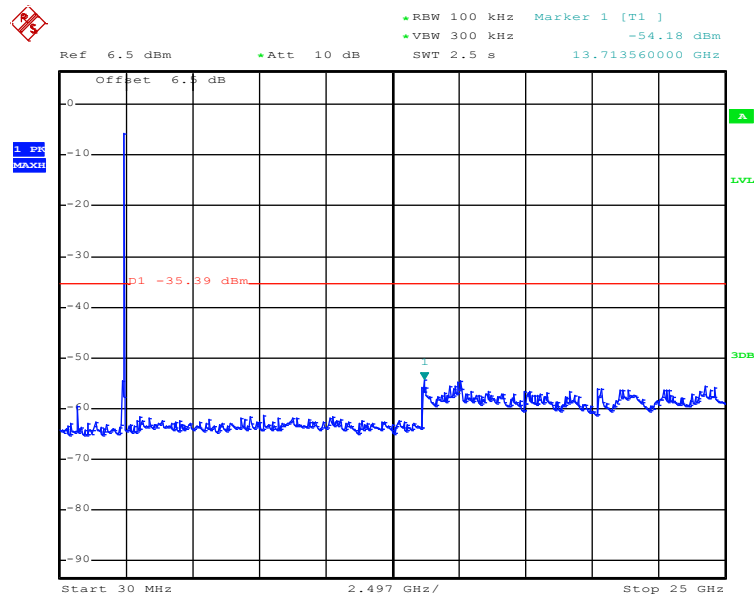
Lowest channel



Date: 15.MAR.2017 02:21:08

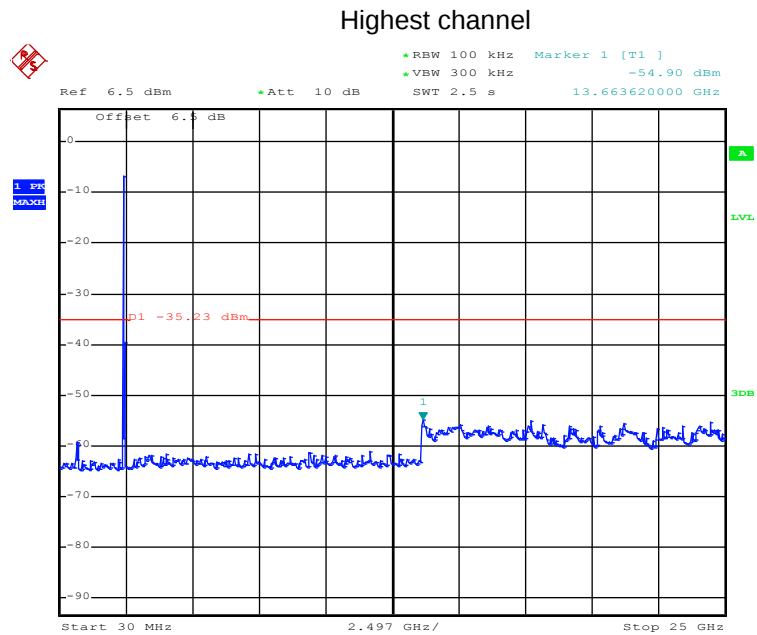
30MHz~25GHz

Middle channel



Date: 15.MAR.2017 02:22:16

30MHz~25GHz

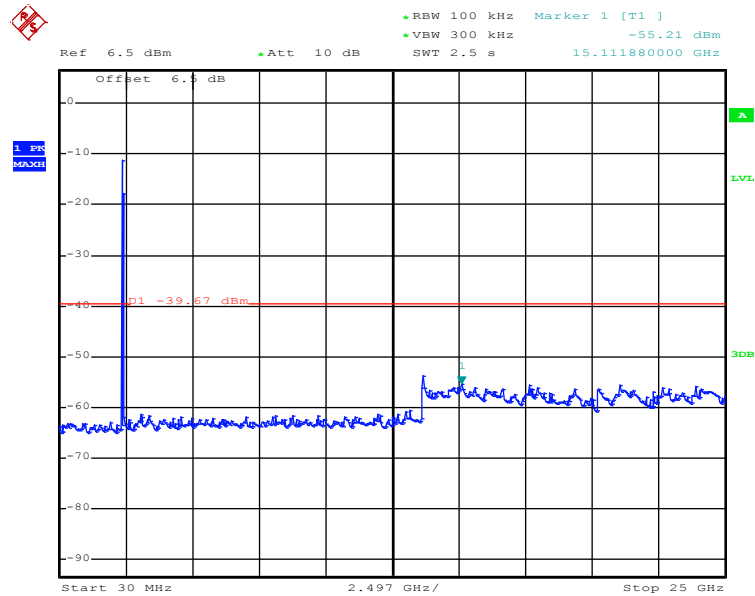


Date: 15.MAR.2017 02:23:18

30MHz~25GHz

Test mode: 802.11n(H40)

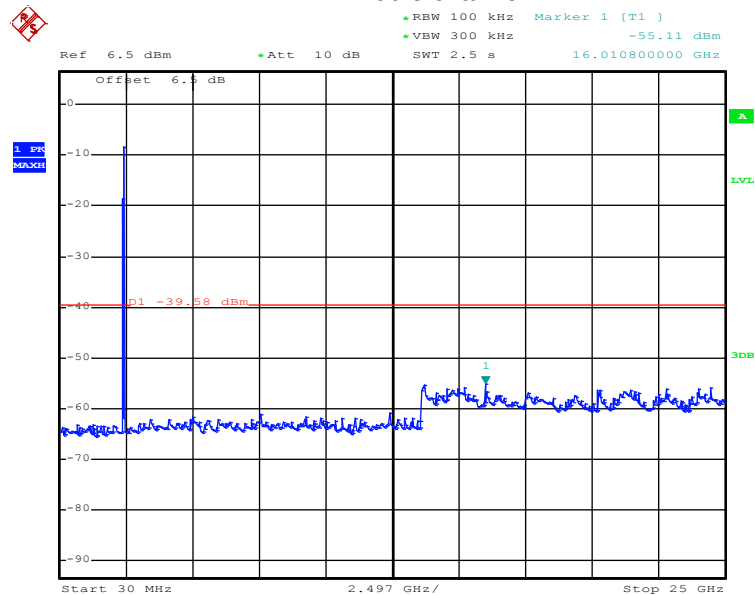
Lowest channel



Date: 15.MAR.2017 02:24:10

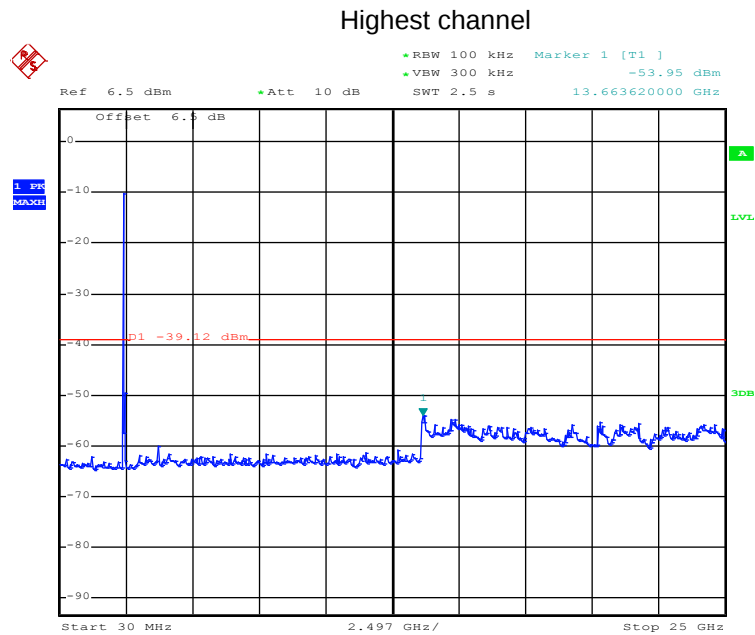
30MHz~25GHz

Middle channel



Date: 15.MAR.2017 02:25:08

30MHz~25GHz

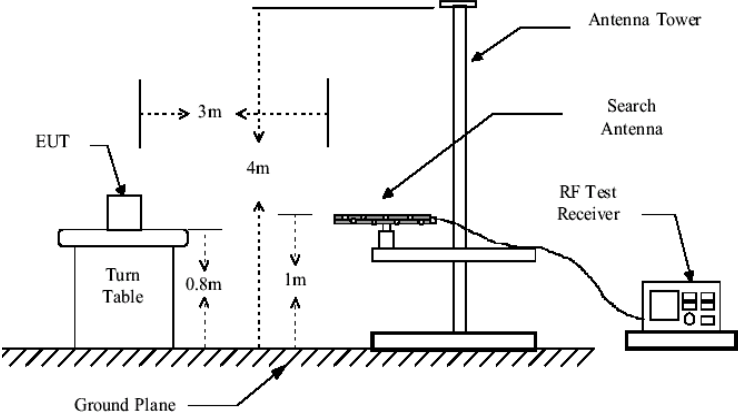
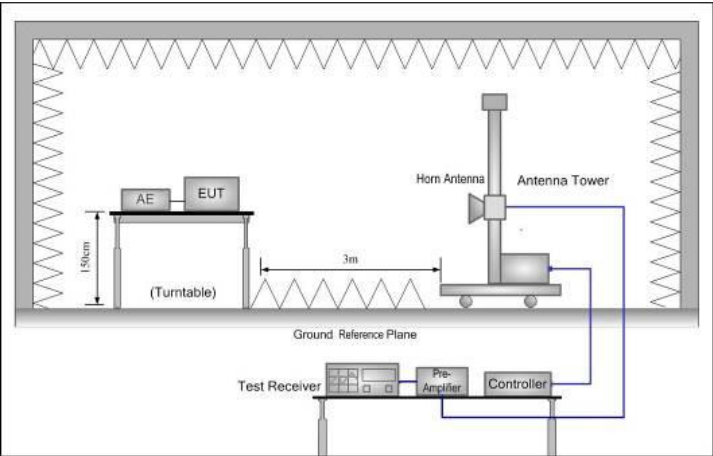


Date: 15.MAR.2017 02:26:07

30MHz~25GHz

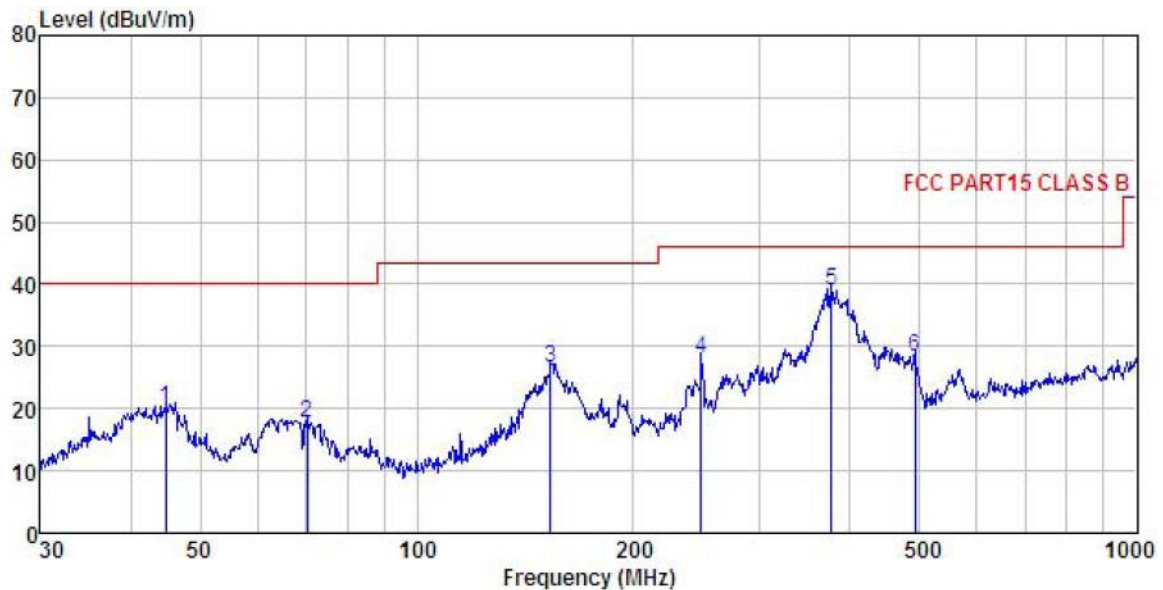
6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	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 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter chamber. 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 5.6 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 2. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.

Below 1GHz

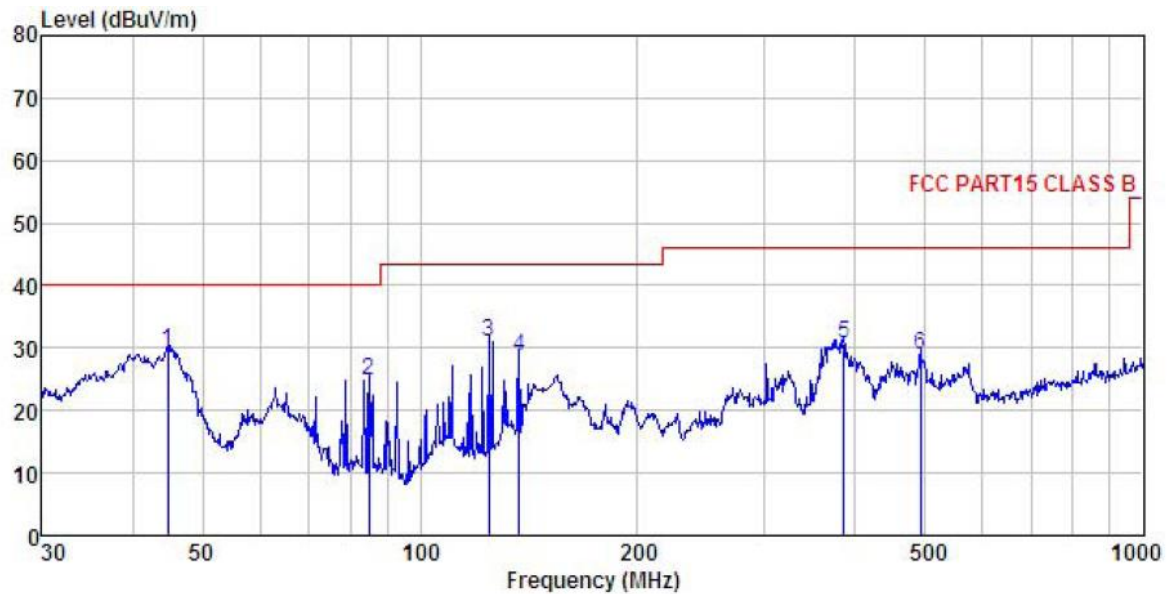
Horizontal:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M3G) HORIZONTAL
 EUT : Phablet
 Model : Aprix_Phlat6
 Test mode : WIFI mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

	Freq	ReadAntenna	Cable	Preamplifier	Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	44.743	31.14	17.44	1.28	29.86	20.00	40.00	-20.00 QP
2	70.337	39.24	6.77	1.52	29.72	17.81	40.00	-22.19 QP
3	153.200	42.93	10.41	2.54	29.19	26.69	43.50	-16.81 QP
4	248.552	41.86	11.89	2.81	28.55	28.01	46.00	-17.99 QP
5	377.259	49.52	15.16	3.09	28.68	39.09	46.00	-6.91 QP
6	492.469	37.08	16.72	3.55	28.94	28.41	46.00	-17.59 QP

Vertical:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M3G) VERTICAL
 EUT : Phablet
 Model : Aprix_Phat6
 Test mode : WIFI mode
 Power Rating : AC120V/60Hz
 Environment : Temp:25.5°C Humi:55% 101KPa
 Test Engineer: YT
 REMARK :

		ReadAntenna		Cable Preamp			Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	44.743	40.57	17.44	1.28	29.86	29.43	40.00	-10.57	QP
2	84.999	44.97	7.50	1.83	29.60	24.70	40.00	-15.30	QP
3	124.569	46.00	12.04	2.22	29.36	30.90	43.50	-12.60	QP
4	136.939	43.80	11.88	2.36	29.29	28.75	43.50	-14.75	QP
5	385.281	40.97	15.40	3.09	28.72	30.74	46.00	-15.26	QP
6	492.469	37.66	16.72	3.55	28.94	28.99	46.00	-17.01	QP

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)	Polar.
4824.00	48.57	36.06	6.81	41.82	49.62	74.00	-24.38	Vertical
4824.00	51.06	36.06	6.81	41.82	52.11	74.00	-21.89	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)	Polar.
4824.00	38.52	36.06	6.81	41.82	39.57	54.00	-14.43	Vertical
4824.00	41.27	36.06	6.81	41.82	42.32	54.00	-11.68	Horizontal

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)	Polar.
4874.00	52.46	36.32	6.85	41.84	53.79	74.00	-20.21	Vertical
4874.00	50.20	36.32	6.85	41.84	51.53	74.00	-22.47	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)	Polar.
4874.00	42.19	36.32	6.85	41.84	43.52	54.00	-10.48	Vertical
4874.00	40.16	36.32	6.85	41.84	41.49	54.00	-12.51	Horizontal

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)	Polar.
4924.00	50.33	36.58	6.89	41.86	51.94	74.00	-22.06	Vertical
4924.00	50.78	36.58	6.89	41.86	52.39	74.00	-21.61	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)	Polar.
4924.00	40.12	36.58	6.89	41.86	41.73	54.00	-12.27	Vertical
4924.00	40.52	36.58	6.89	41.86	42.13	54.00	-11.87	Horizontal

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.

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)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4824.00	48.36	36.06	6.81	41.82	49.41	74.00	-24.59	Vertical
4824.00	51.17	36.06	6.81	41.82	52.22	74.00	-21.78	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)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4824.00	38.26	36.06	6.81	41.82	39.31	54.00	-14.69	Vertical
4824.00	41.29	36.06	6.81	41.82	42.34	54.00	-11.66	Horizontal

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)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4874.00	52.16	36.32	6.85	41.84	53.49	74.00	-20.51	Vertical
4874.00	50.74	36.32	6.85	41.84	52.07	74.00	-21.93	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)	Limit Line (dBuV/m)	Over Limit (dB)	Polar.
4874.00	42.16	36.32	6.85	41.84	43.49	54.00	-10.51	Vertical
4874.00	40.76	36.32	6.85	41.84	42.09	54.00	-11.91	Horizontal

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)	Polar.
4924.00	50.69	36.58	6.89	41.86	52.30	74.00	-21.70	Vertical
4924.00	50.43	36.58	6.89	41.86	52.04	74.00	-21.96	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)	Polar.
4924.00	40.15	36.58	6.89	41.86	41.76	54.00	-12.24	Vertical
4924.00	40.72	36.58	6.89	41.86	42.33	54.00	-11.67	Horizontal

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.

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)	Polar.
4824.00	48.26	36.06	6.81	41.82	49.31	74.00	-24.69	Vertical
4824.00	51.27	36.06	6.81	41.82	52.32	74.00	-21.68	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)	Polar.
4824.00	38.69	36.06	6.81	41.82	39.74	54.00	-14.26	Vertical
4824.00	41.23	36.06	6.81	41.82	42.28	54.00	-11.72	Horizontal

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)	Polar.
4874.00	52.46	36.32	6.85	41.84	53.79	74.00	-20.21	Vertical
4874.00	50.29	36.32	6.85	41.84	51.62	74.00	-22.38	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)	Polar.
4874.00	42.69	36.32	6.85	41.84	44.02	54.00	-9.98	Vertical
4874.00	40.23	36.32	6.85	41.84	41.56	54.00	-12.44	Horizontal

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)	Polar.
4924.00	50.72	36.58	6.89	41.86	52.33	74.00	-21.67	Vertical
4924.00	50.16	36.58	6.89	41.86	51.77	74.00	-22.23	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)	Polar.
4924.00	40.16	36.58	6.89	41.86	41.77	54.00	-12.23	Vertical
4924.00	40.27	36.58	6.89	41.86	41.88	54.00	-12.12	Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamp Factor
2. 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)	Polar.
4844.00	48.52	36.06	6.81	41.82	49.57	74.00	-24.43	Vertical
4844.00	51.76	36.06	6.81	41.82	52.81	74.00	-21.19	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)	Polar.
4844.00	38.62	36.06	6.81	41.82	39.67	54.00	-14.33	Vertical
4844.00	41.23	36.06	6.81	41.82	42.28	54.00	-11.72	Horizontal

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)	Polar.
4874.00	52.46	36.32	6.85	41.84	53.79	74.00	-20.21	Vertical
4874.00	50.19	36.32	6.85	41.84	51.52	74.00	-22.48	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)	Polar.
4874.00	42.79	36.32	6.85	41.84	44.12	54.00	-9.88	Vertical
4874.00	40.16	36.32	6.85	41.84	41.49	54.00	-12.51	Horizontal

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)	Polar.
4904.00	50.98	36.45	6.87	41.85	52.45	74.00	-21.55	Vertical
4904.00	50.47	36.45	6.87	41.85	51.94	74.00	-22.06	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)	Polar.
4904.00	40.13	36.45	6.87	41.85	41.60	54.00	-12.40	Vertical
4904.00	40.15	36.45	6.87	41.85	41.62	54.00	-12.38	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.