

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE171102703

FCC REPORT

Applicant: PCD, LLC

Address of Applicant: 1500 Tradeport Drive, Suite A, ORLANDO, Florida, 32824.

United States

Equipment Under Test (EUT)

Product Name: Fox II

Model No.: PH4003

Trade mark: PCD

FCC ID: 2ALJJPH4003

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

Date of sample receipt: 14 Nov., 2017

Date of Test: 14 Nov., to 26 Dec., 2017

Date of report issued: 27 Dec., 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	27 Dec., 2017	Original

Tested by: Quen (her Date: 27 Dec., 2017

Test Engineer

Reviewed by: 27 Dec., 2017

Project Engineer



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4 Test Summary

Test Items	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
Conducted and Radiated Spurious Emission	15.205/15.209	Pass
Pass: The EUT complies with the essential require	ements in the standard.	.





5 General Information

5.1 Client Information

Applicant:	PCD, LLC
Address:	1500 Tradeport Drive, Suite A, ORLANDO, Florida, 32824. United States
Manufacturer:	Quality One Wireless LLC
Address:	1500 Tradeport Drive, Suite A, ORLANDO, Florida, 32824. United States

5.2 General Description of E.U.T.

Product Name:	Fox II
Model No.:	PH4003
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20))
Channel numbers:	11 for 802.11b/802.11g/802.11(H20)
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 72.2Mbps
Antenna Type:	External Antenna
Antenna gain:	-0.5 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-1400mAh
AC adapter with two plugs :	Model: S4006-T2 Input: AC100-240V, 50/60Hz, 0.1A Output: DC 5.0V, 700mA

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		
NI. C.							

Note:

1. Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel, Channel.



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5.3 Test environment and test mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting 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, the follow list were the worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
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)



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5.6 Laboratory Facility

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

FCC - Registration No.: 727551

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

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.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.7 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

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com



5.8 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	02-25-2017	02-24-2018
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	02-25-2017	02-24-2018
Horn Antenna	SCHWARZBECK	BBHA9120D	916	02-25-2017	02-24-2018
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A
Pre-amplifier	HP	8447D	2944A09358	02-25-2017	02-24-2018
Pre-amplifier	CD	PAP-1G18	11804	02-25-2017	02-24-2018
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	02-25-2017	02-24-2018
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	02-25-2017	02-24-2018
Cable	ZDECL	Z108-NJ-NJ-81	1608458	02-25-2017	02-24-2018
Cable	MICRO-COAX	MFR64639	K10742-5	02-25-2017	02-24-2018
Cable	SUHNER	SUCOFLEX100	58193/4PE	02-25-2017	02-24-2018

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	02-25-2017	02-24-2018
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	02-25-2017	02-24-2018
LISN	CHASE	MN2050D	1447	02-25-2017	02-24-2018
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2018
Cable	HP	10503A	N/A	02-25-2017	02-24-2018
EMI Test Software	AUDIX	E3	6.110919b	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:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The WiFi antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is -0.5 dBi.







6.2 Conducted Emission

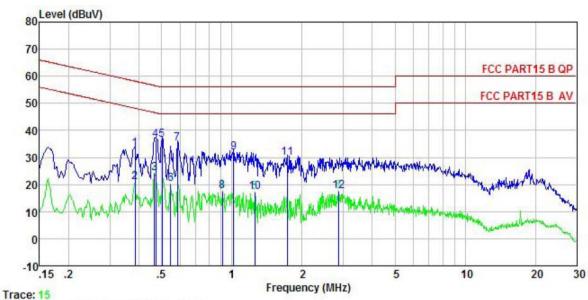
1					
Test Requirement:	FCC Part 15 C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150 kHz to 30 MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9 kHz, VBW=30 kl	Hz			
Limit:	Frequency range	Limit (d	dBuV)		
	(MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the loga				
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:	Reference Plane				
	AUX Equipment Test table/Insula Remark E.U.T: Equipment Under LISN: Line Impedence Ste	E.U.T EMI Receiver	ilter — AC power		
	Test table height=0.8m				
Test Instruments:	Refer to section 5.8 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				





Measurement Data:

Neutral:



Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL : Fox II Condition

EUT Model : PH4003

Test Mode : WIFI mode
Power Rating : AC 120/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Carey

Remark

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	dB	₫B	dBu₹	dBu∜	<u>d</u> B	
1	0.385	22.61	-0.32	10.72	33.01	58.17	-25.16	QP
2	0.385	10.36	-0.32	10.72	20.76	48.17	-27.41	Average
3	0.466	13.69	-0.31	10.75	24.13	46.58	-22.45	Average
4	0.471	26.01	-0.31	10.75	36.45	56.49	-20.04	QP
5	0.502	26.13	-0.30	10.76	36.59	56.00	-19.41	QP
1 2 3 4 5 6 7 8	0.546	9.90	-0.30	10.76	20.36	46.00	-25.64	Average
7	0.585	24.86	-0.30	10.76	35.32	56.00	-20.68	QP
8	0.909	7.11	-0.29	10.84	17.66	46.00	-28.34	Average
9	1.016	21.20	-0.29	10.87	31.78	56.00	-24.22	QP
10	1.255	6.57	-0.28	10.90	17.19	46.00	-28.81	Average
11	1.725	19.18	-0.27	10.94	29.85	56.00	-26.15	QP
12	2.869	6.84	-0.21	10.92	17.55	46.00	-28.45	Average

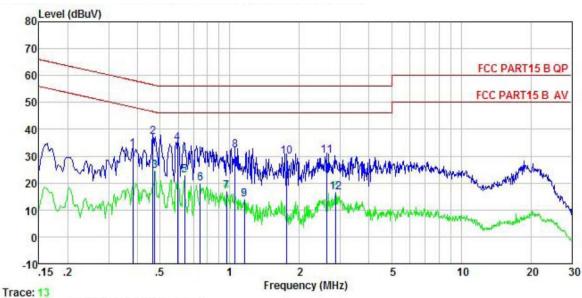
Notes:

- 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.





Line:



: CCIS Shielding Room : FCC PART15 B QP LISN LINE Site

Condition

: Fox II : PH4003 EUT Model Test Mode : WIFI mode Power Rating : AC 120/60Hz

Environment: Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Carey

Remark

Albaco	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	dB	₫B	dBu₹	dBu∜	<u>dB</u>	
1	0.381	22.39	-0.50	10.72	32.61	58.25	-25.64	QP
2	0.466	26.74	-0.49	10.75	37.00	56.58	-19.58	QP
3	0.474	14.44	-0.49	10.75	24.70	46.45	-21.75	Average
4	0.595	24.40	-0.48	10.77	34.69	56.00	-21.31	QP
1 2 3 4 5 6 7	0.637	12.61	-0.48	10.77	22.90	46.00	-23.10	Average
6	0.747	9.46	-0.48	10.79	19.77	46.00	-26.23	Average
7	0.968	6.63	-0.49	10.86	17.00	46.00	-29.00	Average
8	1.054	21.63	-0.49	10.88	32.02	56.00	-23.98	QP
9	1.160	3.47	-0.48	10.89	13.88	46.00	-32.12	Average
10	1.762	19.31	-0.44	10.94	29.81	56.00	-26.19	QP
11	2.622	19.60	-0.44	10.93	30.09	56.00	-25.91	QP
12	2.869	6.07	-0.44	10.92	16.55	46.00	-29.45	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 KDB558074 D01 DTS Meas Guidance v04 section 9.2.2.2					
Limit:	30dBm					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.8 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Measurement Data:

Test CH	Maximum C	onducted Outpu	Limit(dBm)	Result		
16St CIT	802.11b	802.11g	802.11n(H20)	Limit(dBin)	IVESUIL	
Lowest	11.55	7.97	7.44			
Middle	11.66	8.20	7.53	30.00	Pass	
Highest	12.03	8.78	8.20			



6.4 Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 8.1					
Limit:	>500kHz					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.8 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Measurement Data:

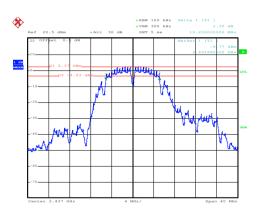
Test CH	6dB Eı	mission Bandwid	Limit(kHz)	Result		
1031 011	802.11b	802.11g	802.11n(H20)	Limit(Ki iz)	Nosuit	
Lowest	10.32	16.40	17.68			
Middle	10.20	16.48	17.56	>500	Pass	
Highest	10.16	16.24	17.60			
Test CH	99% (Occupy Bandwid	Limit(kHz)	Result		
1631 011	802.11b	802.11g	802.11n(H20)	Limit(Ki iz)	resuit	
Lowest	12.72	16.56	17.68			
Middle	12.80	16.48	17.68	N/A	N/A	
Highest	13.04	16.48	17.76			



Test plot as follows:

Date: 16.NOV.2017 17:34:16

Lowest channel



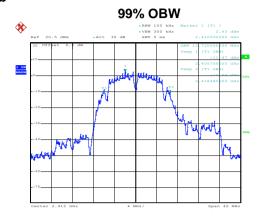
Date: 16.NOV.2017 17:35:08

Middle channel



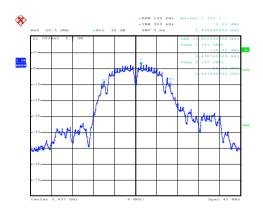
Highest channel

802.11b



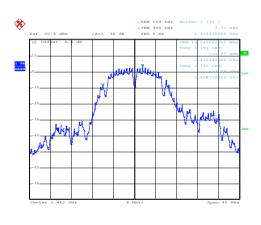
Date: 16.NOV.2017 17:33:45

Lowest channel



Date: 16.NOV.2017 17:33:29

Middle channel

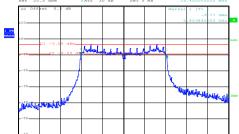


Date: 16.NOV.2017 17:33:08

Highest channel

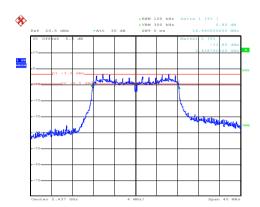


6dB EBW



Date: 16.NOV.2017 17:38:01

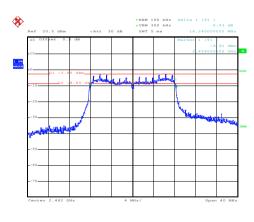
Lowest channel



Date: 16.NOV.2017 17:37:24

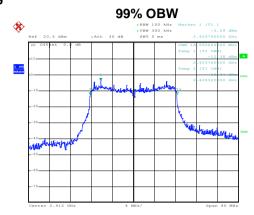
Date: 16.NOV.2017 17:36:43

Middle channel



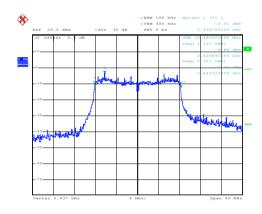
Highest channel

802.11g



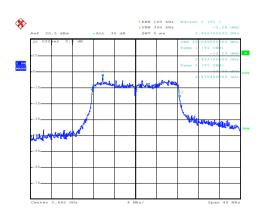
Date: 16.NOV.2017 17:32:02

Lowest channel



Date: 16.NOV.2017 17:32:17

Middle channel

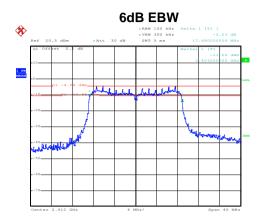


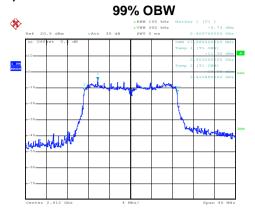
Date: 16.NOV.2017 17:32:40

Highest channel



802.11n(H20)

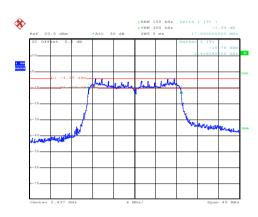


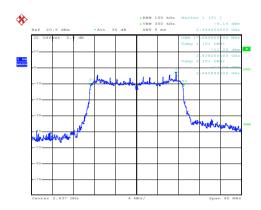


Date: 16.NOV.2017 17:39:03

Lowest channel







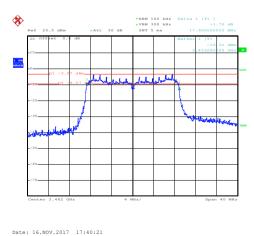
Date: 16.NOV.2017 17:39:40

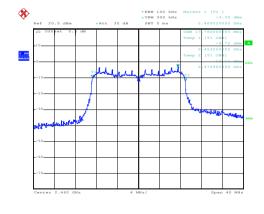
Date: 16.NOV.2017 17:31:22

Date: 16.NOV.2017 17:31:06

Middle channel

Middle channel





Highest channel

Highest channel



6.5 Power Spectral Density

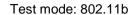
Test Requirement:	FCC Part 15 C Section 15.247 (e)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 10.2					
Limit:	8dBm					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.8 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Measurement Data:

Test CH	Power	Spectral Dens	Limit(dBm)	Result		
1031 011	802.11b	802.11g	802.11n(H20)	Limit(dBin)	Nesun	
Lowest	2.02	-3.61	-4.66		Pass	
Middle	2.17	-3.53	-4.75	8.00		
Highest	2.88	-2.95	-3.49			



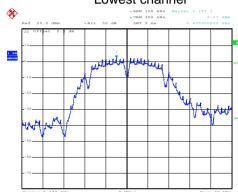
Test plot as follows:





Date: 16.NOV.2017 17:43:10

Lowest channel



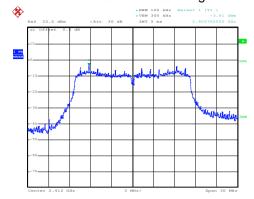
Date: 16.NOV.2017 17:42:47

Date: 16.NOV.2017 17:42:30

Middle channel **Mar 100 Mar Marker 1 (71.) **Mar 20 Mar **Akt 30 da Mar ** **DATE 5 mar 2.46050000 disc **TO 10 Mar Marker 1 (71.) **Akt 30 da Mar 5 mar 2.46050000 disc **TO 10 Mar Marker 1 (71.) **TO 10 Mar Marker 1 (71.) **Akt 30 da Mar Marker 1 (71.) **TO 10 Mar Marker 1 (71.) **Akt 30 da Mar Marker 1 (71.) **TO 10 Mar Marker 1 (71.) **Akt 30 da Marker 1 (71.) **TO 10 Mar Ma

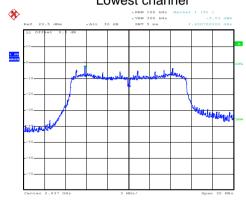
Highest channel

Test mode: 802.11g



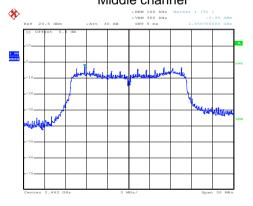
Date: 16.NOV.2017 17:41:41

Lowest channel



Date: 16.NOV.2017 17:41:55

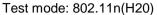
Middle channel

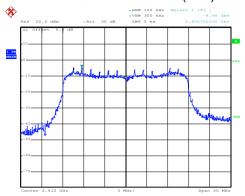


Date: 16.NOV.2017 17:42:09

Highest channel



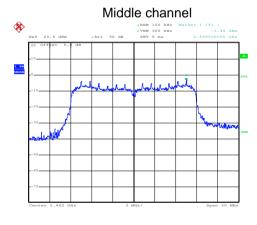




Date: 16.NOV.2017 17:41:22

Lowest channel - RIM 100 bits Marker 1 (73.1) - 4.73 dim - 4.73 d

Date: 16.NOV.2017 17:41:09



Date: 16.NOV.2017 17:40:55

Highest channel





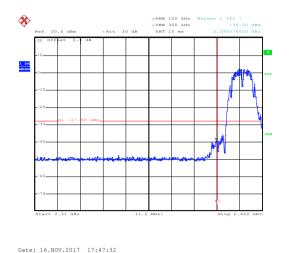
6.6 Band Edge

6.6.1 Conducted Emission Method

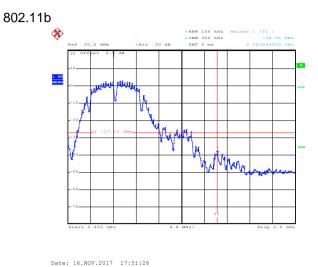
Test Requirement:	FCC Part 15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 13					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced 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:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.8 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					



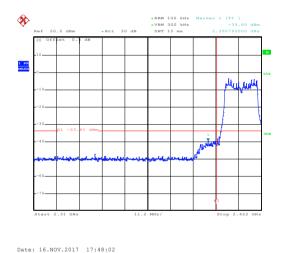
Test plot as follows:



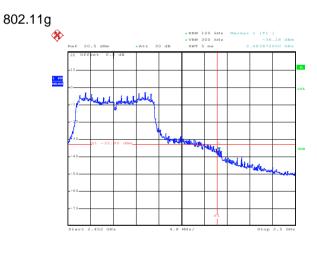




Highest channel



Lowest channel



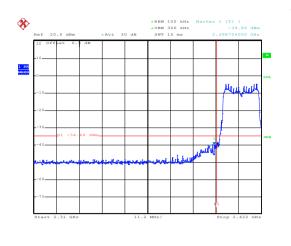
Date: 16.NOV.2017 17:50:43

Highest channel

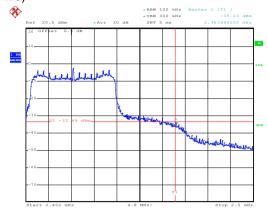




Date: 16.NOV.2017 17:48:37



802.11n(H20)



Lowest channel

Highest channel

Date: 16.NOV.2017 17:49:57





6.6.2 Radiated Emission Method

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 KDB558074 D01 DTS Meas Guidance v04 section 12.1							
	Test Frequency Range:	2.3GHz to 2.5GHz							
	Test Distance:	3m							
	Receiver setup:	Frequency	Detec	tor	RBW	V	BW	Remark	
	·	Above 1GHz	Peal		1MHz		ЛHz	Peak Value	
			RMS		1MHz		ИHz	Average Value	
	Limit:	Frequenc	У	Lin	nit (dBuV/m @:	3m)	۸,	Remark	
		Above 1GI	Ηz		54.00 74.00			verage Value Peak Value	
	Test Procedure:	the ground to determin 2. The EUT wantenna, wantenna, wantenna and the ground Both horizon make the make the maters and to find the materials and the limit specified EUT have 10dB	at a 3 m e the po as set 3 hich was a height to deteriontal and neasurer uspected nen the a the rota maximum ceiver sy sandwidtl sion leve ecified, the would be margin v	eter of sition meters is various vertinent. It emissions table in real vertem h with hen te repwould	camber. The tan of the highest of the highest ers away from the unted on the top aried from one of the maximum cal polarization assion, the EUT in a was turned from the example of the example of the EUT in peak esting could be orted. Otherwish the re-tested of the example of	tating table 1.5 meters above table was rotated 360 degrees to radiation. The interference-receiving up of a variable-height antennal meter to four meters above value of the field strength. The interference receiving up of a variable received to the field strength. The interference receiving up of a variable received and the interference receiving up of a variable received and the interference receiving up of a variable received and the interference receiving up of a variable received and the interference receiving up of a variable received and the interference receiving up of a variable received and the interference receiving up of a variable received and the interference receiving up of a variable received and the interference receiving up of a variable receiving u			
	Test setup:	- 150cm	AE E	. 11/	Hern 3m Ground Reference Plane	n Antenna	Antenna Tow	ver V	
	Test Instruments:	Refer to section	5.8 for c	detail	s				
	Test mode:	Refer to section	5.3 for c	detail	S				
	Test results:	Passed							
		·		_					

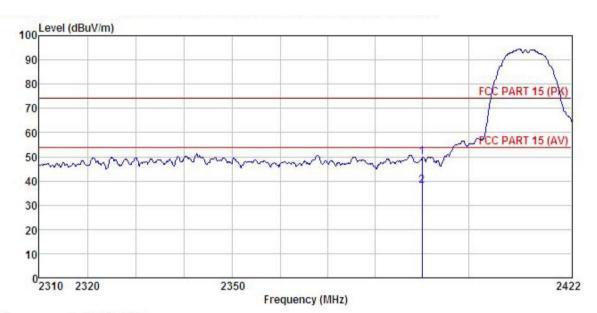




802.11b

Test channel: Lowest

Horizontal:



Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL : Fox II Condition

EUT Model : PH4003 Test mode : 802.11B-L mode

Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey

REMARK

1 2

-		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq		Factor						
	MHz	dBu₹		dB	<u>dB</u>	dBuV/m	dBuV/m	dB	
	2390.000 2390.000						A 107 E 107 E		27.00 C 277.00

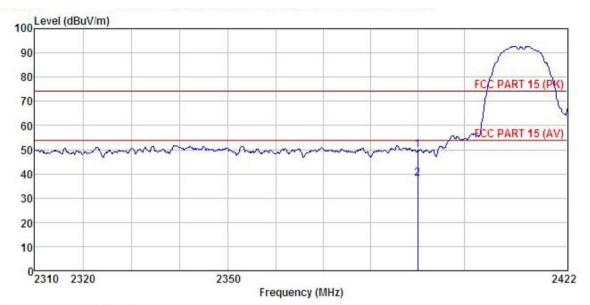
Remark:

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





Vertical:



: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL : Fox II Condition

: rH4003
Test mode : 802.11B-L mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Carey
REMARK :

III WILL									
		Read	Ant enna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu∜	<u>dB</u> /m	dB	dB	dBuV/m	dBuV/m	<u>dB</u>	
1	2390.000	19.62	25.45	4.69	0.00	49.76	74.00	-24.24	Peak
2	2300 000	7 24	25 45	4 60	0.00	37 02	54 00	-16 02	Amerade

Remark:

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

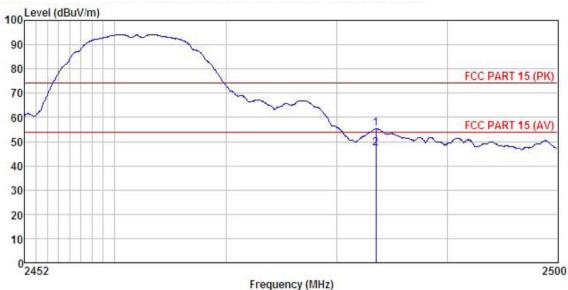
Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366





Test channel: Highest

Horizontal:



Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL Condition

EUT : Fox II

Model : PH4003

Test mode : 802.11B-H mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey

REMARK

	Read Freq Level		Antenna Factor						
	MHz	dBu₹	<u>dB</u> /m	<u>dB</u>	<u>ab</u>	dBuV/m	dBu√/m	<u>dB</u>	
1 2	2483.500 2483.500								

Remark:

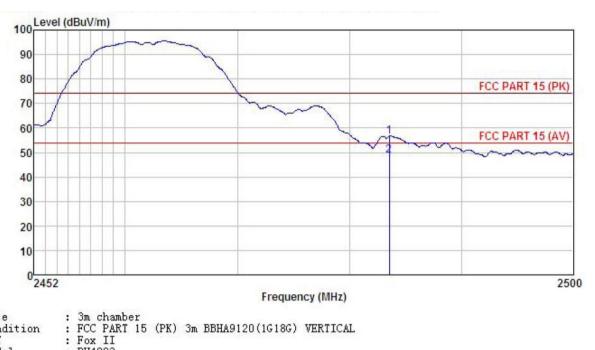
- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

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Vertical:



Site

Condition

EUT : PH4003 Model

Test mode : 802.11B-H mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey REMARK :

ra :								
	Read	Ant enna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBu∀	dB/m	dB	<u>dB</u>	dBu√/m	dBuV/m	<u>dB</u>	
2483.500	26.13	25.66	4.81	0.00	56.60	74.00	-17.40	Peak
2483 500	18 12	25 66	4 81	0 00	48 59	54 00	-541	Average

Remark:

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

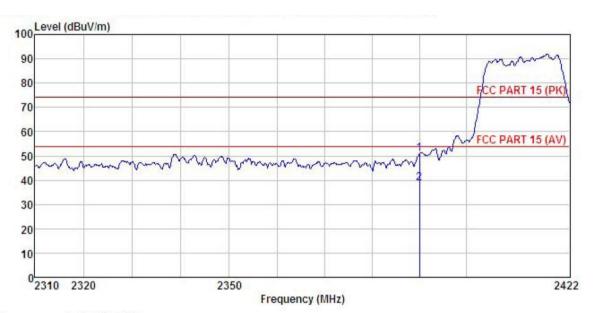




802.11g

Test channel: Lowest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL : Fox II Condition

EUT : PH4003 Model : 802.11G-L mode Test mode Power Rating: AC 120V/60Hz Environment: Temp:25.5°C Huni:55% Test Engineer: Carey

REMARK

 	Read	Antenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
 MHz	dBu∜	—dB/m	<u>dB</u>	<u>dB</u>	dBu√/m	dBu√/m	dB	
2390.000	20.85	25.45	4.69	0.00	50.99	74.00	-23.01	Peak
2390.000	8.76	25.45	4.69	0.00	38.90	54.00	-15.10	Average

Remark:

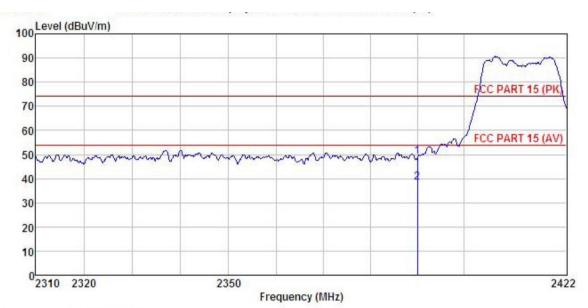
- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report. 2.

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366





Vertical:



: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL : Fox II Condition

: Fox II

Model : PH4003

Test mode : 802.11G-L mode

Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey

REMARK :

THAN	v :								
	Freq		Antenna Factor				Limit Line		Remark
	MHz	dBu₹	dB/m	dB	dB	$\overline{dBuV/m}$	dBuV/m	<u>d</u> B	
1	2390.000	19.03	25.45	4.69	0.00	49.17	74.00	-24.83	Peak
2	2300 000	8 40	25 45	4 69	0.00	38 54	54 00	-15.46	Average

Remark:

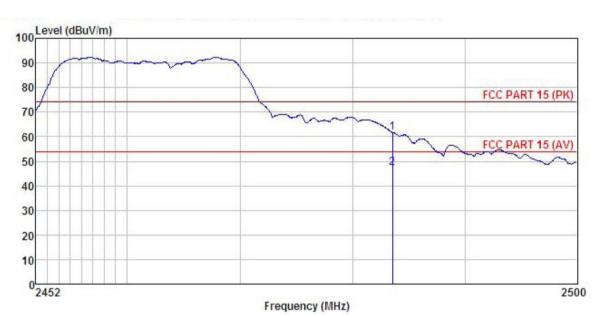
- Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report. 2.





Test channel: Highest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL : FOX II Condition

EUT : PH4003 Model

: 802.11G-H mode Test mode

Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey

REMARK

	Freq		adAntenna Cable Pres el Factor Loss Fact						
	MHz	dBu∀	dB/m	<u>dB</u>	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1 2	2483.500 2483.500								

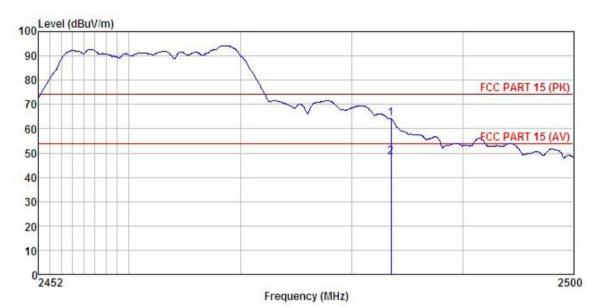
Remark:

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

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Vertical:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL : Fox II Condition

EUT : PH4003 Model

Test mode : 802.11G-H mode Power Rating : AC 120V/60Hz

Environment: Temp: 25.5°C Huni: 55%

Test Engineer: Carey REMARK :

in .								
	Read	Antenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBu∀	dB/m		<u>dB</u>	dBuV/m	$\overline{\mathtt{dBuV/m}}$	<u>dB</u>	
2483.500						74.00		
2483, 500	17.99	25. 66	4.81	U. UU	48.46	54.00	-5.54	Average

Remark:

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

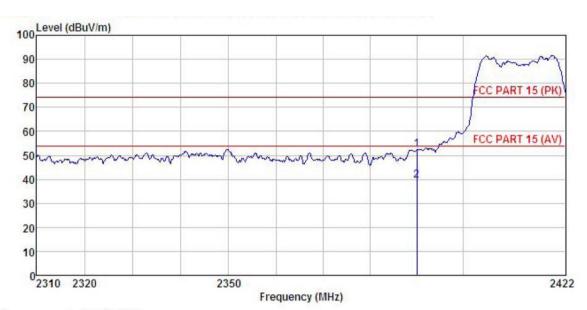




802.11n (H20)

Test channel: Lowest

Horizontal:



Site Condition : 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL

EUT : Fox II : PH4003 Model Test mode : 802.11N2O-L mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey REMARK :

T III III II	E (E)		Antenna Factor					Over Limit	Remark
	MHz	dBu∀	$-\overline{dB}/\overline{m}$	dB	<u>dB</u>	dBuV/m	dBu√/m	dB	
	2390.000 2390.000					52.23 39.44			

Remark:

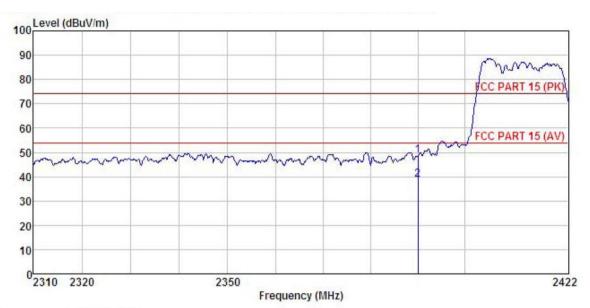
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report. 2.

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Vertical:



Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL Condition

EUT : Fox II Model : PH4003

Test mode : 802.11N20-L mode

Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey REMARK :

ш	rv :									
		Read	Ant enna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
	MHz	dBu∜	dB/m	<u>dB</u>	dB	dBu√/m	dBuV/m	<u>dB</u>		
	2390.000	18.47	25.45	4.69	0.00	48.61	74.00	-25.39	Peak	
	2390 000	8 75	25 45	4 69	0.00	38 89	54 00	-15 11	Average	

Remark:

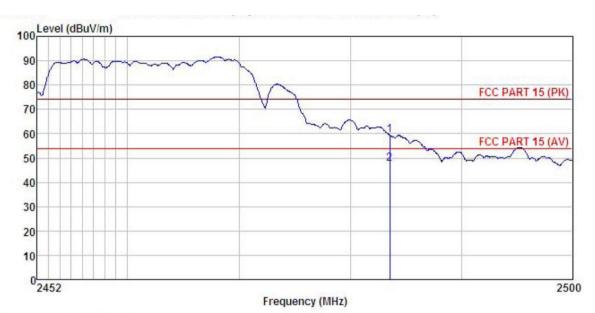
- Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Test channel: Highest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL Condition

EUT : Fox II Model : PH4003

Test mode : 802.11N20-H mode Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey REMARK :

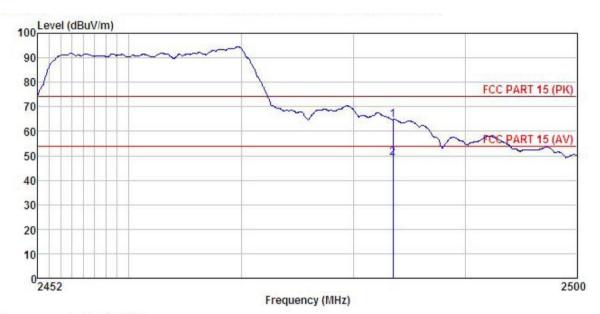
rv :								
	Read	Ant enna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBu∜	<u>dB</u> /m	<u>dB</u>	<u>dB</u>	dBuV/m	dBu√/m	<u>dB</u>	
2483.500								
0463 EUU	17 20	2E 66	4 01	0 00	47 TE	E4 00	_6 OE	Arranaga

Remark:

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



Vertical:



Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL Condition

EUT : Fox II

Model : PH4003

Test mode: 802.11N20-H mode
Power Rating: AC 120V/60Hz
Environment: Temp:25.5°C Huni:55%
Test Engineer: Carey

REMARK

Freq		Antenna Factor						
MHz	dBu₹	dB/m	dB	dB	dBuV/m	$\overline{dBuV/m}$	 	-
2483.500 2483.500						74.00 54.00	Peak Average	

Remark:

1 2

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



6.7 Spurious Emission

6.7.1 Conducted Emission Method

t 15 C Section 15.247 (d) 3.10:2013 and KDB558074 D01 DTS Meas Guidance v04 1 00 kHz bandwidth outside the frequency band in which the pectrum intentional radiator is operating, the radio frequency at is produced by the intentional radiator shall be at least 20 dB at in the 100 kHz bandwidth within the band that contains the evel of the desired power, based on either an RF conducted or a measurement. If the transmitter complies with the conducted nits based on the use of RMS averaging over a time interval, as d under paragraph(b)(3) of this section, the attenuation required
100 kHz bandwidth outside the frequency band in which the pectrum intentional radiator is operating, the radio frequency at is produced by the intentional radiator shall be at least 20 dB at in the 100 kHz bandwidth within the band that contains the evel of the desired power, based on either an RF conducted or a measurement. If the transmitter complies with the conducted nits based on the use of RMS averaging over a time interval, as
pectrum intentional radiator is operating, the radio frequency at is produced by the intentional radiator shall be at least 20 dB at in the 100 kHz bandwidth within the band that contains the evel of the desired power, based on either an RF conducted or a measurement. If the transmitter complies with the conducted nits based on the use of RMS averaging over a time interval, as
s paragraph shall be 30 dB instead of 20 dB.
Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
section 5.8 for details
section 5.3 for details

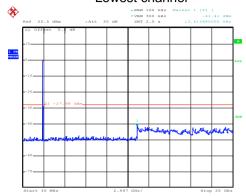




Test plot as follows:

Test mode: 802.11b

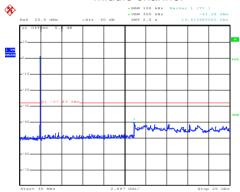
Lowest channel



Date: 16.NOV.2017 17:53:01

30MHz~25GHz

Middle channel

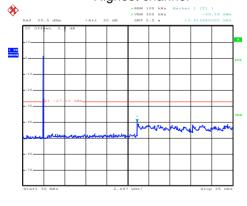


Date: 16.NOV.2017 17:52:41

Date: 16.NOV.2017 17:52:17

30MHz~25GHz

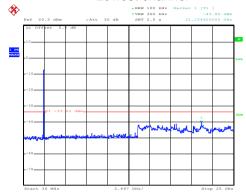
Highest channel



30MHz~25GHz

Test mode: 802.11g

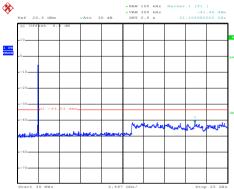
Lowest channel



Date: 16.NOV.2017 17:53:27

30MHz~25GHz

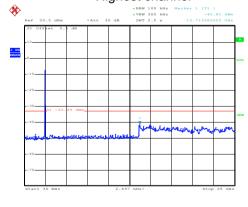
Middle channel



Date: 16.NOV.2017 17:53:55

30MHz~25GHz

Highest channel



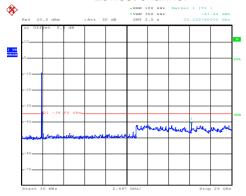
Date: 16.NOV.2017 17:54:14

30MHz~25GHz



Test mode: 802.11n(H20)

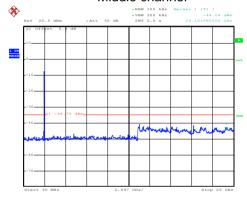
Lowest channel



Date: 16.NOV.2017 17:55:45

30MHz~25GHz

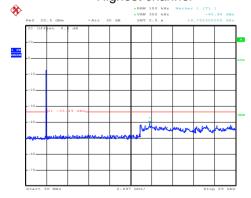
Middle channel



Date: 16.NOV.2017 17:54:58

30MHz~25GHz

Highest channel



Date: 16.NOV.2017 17:55:25

30MHz~25GHz





6.7.2 Radiated Emission Method

6.7.2	Radiated Emission Me	ethod						
	Test Requirement:	FCC Part 15 C S	ection 15	5.209 a	and 15.205			
	Test Method:	ANSI C63.10:201	13					
	Test Frequency Range:	9kHz to 25GHz						
	Test Distance:	3m						
	Receiver setup:	Frequency	Detec	ctor	RBW	VI	3W	Remark
	•	30MHz-1GHz	Quasi-p	oeak	120KHz	300	KHz	Quasi-peak Value
		Above 1GHz	Pea		1MHz		/IHz	Peak Value
	I incit.		RMS		1MHz : (dBuV/m @3r		/lHz	Average Value Remark
	Limit:	Frequency 30MHz-88MH	7	LIIIII	. <u>(аваулп @зг</u> 40.0	11)	Oı	uasi-peak Value
		88MHz-216MH			43.5			uasi-peak Value
		216MHz-960MI			46.0			uasi-peak Value
		960MHz-1GH	Z		54.0			uasi-peak Value
		Above 1GHz			54.0		I	Average Value
	Test Procedure:				74.0 e top of a rota			Peak Value
		 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. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenn tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak value of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi peak or average method as specified and then reported in a data sheet. 						
	Test setup:	Below 1GHz EUT Turn Table Ground P		4m			_	





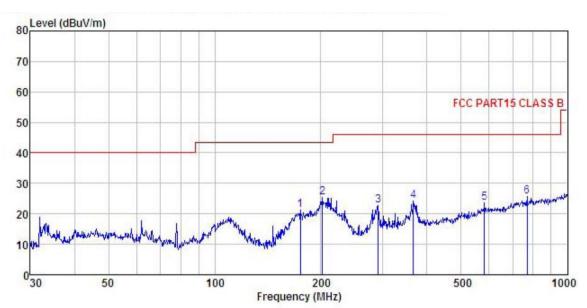
	Above 1GHz
	Horn Anlanna Antenna Tower Ground Reference Plane Test Receiver Amptifier Controller
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	 Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.





Below 1GHz

Horizontal:



Site Condition

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M2G) HORIZONTAL : Fox II : PH4003

EUT Model Test mode : WIFI mode

Power Rating : AC 120V/60Hz Environment : Temp:25.5°C Huni:55%

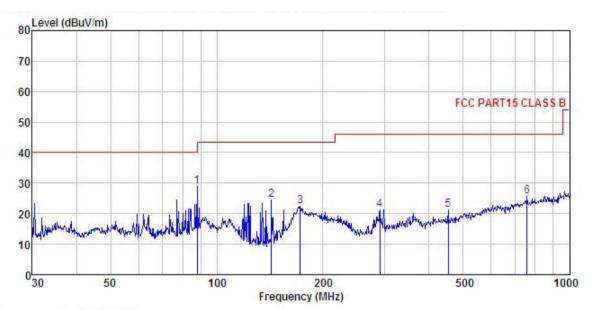
Test Engineer: Carey REMARK :

		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq		Factor						Remark
-	MHz	dBu∜	dB/m	d₿	dB	dBuV/m	dBuV/m	dB	
1	175.037	38.38	9.30	2.69	29.01	21.36	43.50	-22.14	QP
2	202.100	40.17	11.30	2.87	28.82	25.52	43.50	-17.98	QP
3	291.036	35.19	13.15	2.92	28.47	22.79	46.00	-23.21	QP
1 2 3 4 5	365.539	35.23	14.58	3.09	28.63	24.27	46.00	-21.73	QP
5	582.743	30.50	18.17	3.92	28.99	23.60	46.00	-22.40	QP
6	768.748	30.07	19.58	4.36	28.37	25.64	46.00	-20.36	QP





Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M2G) VERTICAL : Fox II Condition EUT

: PH4003 : WIFI mode Model Test mode

Power Rating: AC 120V/60Hz Environment: Temp:25.5°C Huni:55% Test Engineer: Carey

REMARK

		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
_	MHz	dBu∜	dB/m	₫B	<u>dB</u>	dBuV/m	dBu√/m	<u>dB</u>	
1	88.033	46.34	10.18	1.96	29.58	28.90	43.50	-14.60	QP
2	142.824	43.11	8.34	2.43	29.26	24.62	43.50	-18.88	QP
3	172.599	39.62	9.10	2.68	29.03	22.37	43.50	-21.13	QP
2 3 4	290.017	33.75	13.09	2.91	28.47	21.28	46.00	-24.72	QP
5	452.720	31.41	15.58	3.22	28.88	21.33	46.00	-24.67	QP
6	758.041	30.15	19.54	4.36	28.43	25.62	46.00	-20.38	QP



Above 1GHz

Test mode: 80	02.11b		Test char	nnel: Lowest		Remark: Pea	ık	
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	49.67	36.06	6.81	41.82	50.72	74.00	-23.28	Vertical
4824.00	48.33	36.06	6.81	41.82	49.38	74.00	-24.62	Horizontal
Test	mode: 802.	11b	Te	st channel: L	owest	Rem	ark: Avera	age
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	39.96	36.06	6.81	41.82	41.01	54.00	-12.99	Vertical
4824.00	38.85	36.06	6.81	41.82	39.90	54.00	-14.10	Horizontal

Test	mode: 802.	11b	Te	st channel: M	/liddle	Re	mark: Pea	ık
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	45.93	36.32	6.85	41.84	47.26	74.00	-26.74	Vertical
4874.00	47.14	36.32	6.85	41.84	48.47	74.00	-25.53	Horizontal
Test	mode: 802.	11b	Test channel: Middle			Rem	ark: Avera	age
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	36.00	36.32	6.85	41.84	37.33	54.00	-16.67	Vertical
4874.00	36.83	36.32	6.85	41.84	38.16	54.00	-15.84	Horizontal

Test	mode: 802.	11b	Te	st channel: H	ighest	Re	mark: Pea	ak
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	49.36	36.58	6.89	41.86	50.97	74.00	-23.03	Vertical
4924.00	46.36	36.58	6.89	41.86	47.97	74.00	-26.03	Horizontal
Test	mode: 802.	11b	Te	st channel: H	ighest	Remark: Average		age
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	39.68	36.58	6.89	41.86	41.29	54.00	-12.71	Vertical
4924.00	35.84	36.58	6.89	41.86	37.45	54.00	-16.55	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: 80)2.11g		Test char	nel: 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	48.43	36.06	6.81	41.82	49.48	74.00	-24.52	Vertical	
4824.00	48.81	36.06	6.81	41.82	49.86	74.00	-24.14	Horizontal	
Tes	t mode: 802.	11g	Tes	t channel: Lo	west	Remark: Average		age	
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	38.81	36.06	6.81	41.82	39.86	54.00	-14.14	Vertical	
4824.00	38.35	36.06	6.81	41.82	39.40	54.00	-14.60	Horizontal	

Tes	t mode: 802.	11g	Tes	st channel: Mi	ddle	Re	mark: Pea	ık
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	48.68	36.32	6.85	41.84	50.01	74.00	-23.99	Vertical
4874.00	48.41	36.32	6.85	41.84	49.74	74.00	-24.26	Horizontal
Tes	t mode: 802.	11g	Tes	Test channel: Middle		Rem	ark: Avera	age
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	38.56	36.32	6.85	41.84	39.89	54.00	-14.11	Vertical
4874.00	38.85	36.32	6.85	41.84	40.18	54.00	-13.82	Horizontal

Tes	t mode: 802.	11g	Tes	t channel: Hiç	ghest	Re	mark: Pea	ık
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	47.68	36.58	6.89	41.86	49.29	74.00	-24.71	Vertical
4924.00	48.46	36.58	6.89	41.86	50.07	74.00	-23.93	Horizontal
Tes	t mode: 802.	11g	Tes	Test channel: Highest		Rem	nark: Avera	age
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	37.35	36.58	6.89	41.86	38.96	54.00	-15.04	Vertical
4924.00	38.32	36.58	6.89	41.86	39.93	54.00	-14.07	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: 8	02.11n(H20)		Test char	nnel: Lowest		Remark: Pea	ık	
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	47.85	36.06	6.81	41.82	48.90	74.00	-25.10	Vertical
4824.00	48.01	36.06	6.81	41.82	49.06	74.00	-24.94	Horizontal
Test mode: 8	02.11n(H20)		Test char	nnel: Lowest		Remark: Ave	rage	
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	37.11	36.06	6.81	41.82	38.16	54.00	-15.84	Vertical
4824.00	37.98	36.06	6.81	41.82	39.03	54.00	-14.97	Horizontal

Test mode: 8	02.11n(H20)		Test char	nnel: Middle		Remark: Pea	ık	
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	48.14	36.32	6.85	41.84	49.47	74.00	-24.53	Vertical
4874.00	48.35	36.32	6.85	41.84	49.68	74.00	-24.32	Horizontal
Test mode: 8	02.11n(H20))	Test char	nnel: Middle		Remark: Ave	rage	
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	38.33	36.32	6.85	41.84	39.66	54.00	-14.34	Vertical
4874.00	38.08	36.32	6.85	41.84	39.41	54.00	-14.59	Horizontal

Test mode: 8	02.11n(H20)		Test char	nnel: Highest		Remark: Pea	k	
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	47.81	36.58	6.89	41.86	49.42	74.00	-24.58	Vertical
4924.00	48.53	36.58	6.89	41.86	50.14	74.00	-23.86	Horizontal
Test mode: 8	02.11n(H20)		Test char	nnel: Highest		Remark: Ave	rage	
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	37.16	36.58	6.89	41.86	38.77	54.00	-15.23	Vertical
4924.00	38.55	36.58	6.89	41.86	40.16	54.00	-13.84	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.