



MEASUREMENT REPORT

FCC PART 15C WLAN 802.11b/g/n

FCC ID : TK4WLE900VX

APPLICANT : Compex Systems Pte Ltd

Application Type : Class II Permissive Change

Product : 802.11ac Dual Band Module

Model No. : WLE900VX, WLE900VX-I

Brand Name : COMPEX

FCC Classification : Digital Transmission System (DTS)

FCC Rule Part(s) : Part 15 Subpart C (Section 15.247)

Test Procedure(s) : ANSI C63.10-2013, KDB 558074 D01v04

Test Date : March 08 ~ April 18, 2018

Reviewed By : Jame Yuan
(Jame Yuan)

Approved By : Marlinchen
(Marlin Chen)



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 558074 D01v04. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
1801RSU027-U1	Rev. 01	Initial report	04-08-2018	Invalid
1801RSU027-U1	Rev. 02	Add some test data	04-18-2018	Valid

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§2.1033 General Information

Applicant:	Compex Systems Pte Ltd
Applicant Address:	No:9 Harrison Road, Harrison Industrial Building, #05-01, Singapore 369651
Manufacturer:	Compex Systems Pte Ltd
Manufacturer Address:	No:9 Harrison Road, Harrison Industrial Building, #05-01, Singapore 369651
Test Site:	MRT Technology (Suzhou) Co., Ltd
Test Site Address:	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
MRT FCC Registration No.:	893164
Test Device Serial No.:	N/A ☐ Production ☒ Pre-Production ☐ Engineering
FCC Classification:	Digital Transmission System (DTS)

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 893164) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-20025, G-20034, C-20020, T-20020) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.



1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.



2. PRODUCT INFORMATION

2.1. Feature of Equipment under Test

Product Name	802.11ac Dual Band Module
Model No.	WLE900VX, WLE900VX-I
Wi-Fi Specification	802.11a/b/g/n/ac

2.2. Product Specification Subjective to this Report

Frequency Range	802.11b/g/n-HT20: 2412 ~ 2462 MHz 802.11n-HT40: 2422 ~ 2452 MHz
Channel Number:	802.11b/g/n-HT20: 11 802.11n-HT40: 9
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM
Data Rate:	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 450Mbps

Note: For other features of this EUT, test report will be issued separately.

2.3. Operation Frequency / Channel List

802.11b/g/n-HT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz	--	--

802.11n-HT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz
06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	--	--	--	--

2.4. Description of Available Antennas

Original Antenna List

Antenna Type	Manufacturer	Tx Paths	Max Directional Gain (dBi)
Panel Antenna 1#	Compex Systems Pte Ltd	3	2.4GHz: 11.0
Panel Antenna 2#	Kenbotong Communication LTD	3	2.4GHz: 10.0, 5GHz: 10.0
Panel Antenna 3#	Smart Ant Inc	3	2.4GHz: 7.0, 5GHz: 7.0
Panel Antenna 4#	TAOGLAS Inc	3	2.4GHz: 4.5, 5GHz: 6.7
Panel Antenna 5#	Compex Systems Pte Ltd	3	2.4GHz: 5.0, 5GHz: 5.0
Panel Antenna 6#	Compex Systems Pte Ltd	3	2.4GHz: 5.0, 5GHz: 5.0
Omni Antenna 1#	Kunshan Wavelink Electronic Co., Ltd.	3	2.4GHz: 2.0, 5GHz: 2.0

New Antenna List

Antenna Type	Manufacturer	M/N	Max Directional Gain (dBi)
Omni Antenna 1#	Smart Ant Co., Ltd.	SAA05-220170	2.4GHz: 2.5, 5GHz: 5.0
Omni Antenna 2#	Smart Ant Co., Ltd.	SAA06-22096B	2.4GHz: 3.0, 5GHz: 6.0
Omni Antenna 3#	Smart Ant Co., Ltd.	SAA05-22042B	2.4GHz: 2.0, 5GHz: 2.0
Omni Antenna 4#	Smart Ant Co., Ltd.	SAA14-220150	2.4GHz: 5.0, 5GHz: 7.0
Omni Antenna 5#	Smart Ant Co., Ltd.	SAA06-220960	2.4GHz: 3.0, 5GHz: 6.0
Omni Antenna 6#	Smart Ant Co., Ltd.	SAA05-220420	2.4GHz: 2.0, 5GHz: 2.0
Omni Antenna 7#	Smart Ant Co., Ltd.	SAA04-22008C	2.4GHz: 4.5, 5GHz: 7.0

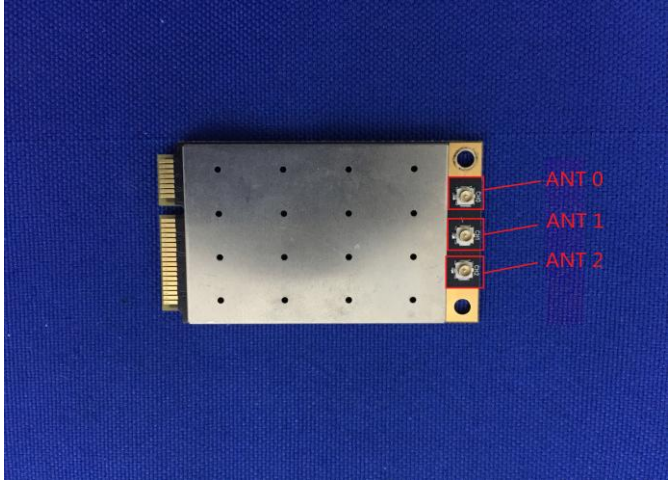
Note 1: The device didn't support transmit beam-forming mode and Cyclic Delay Diversity (CDD) mode, and the transmit signals are uncorrected, so no add array gain to the band power and band PSD.

Note: We selected the Omni Antenna 4# to perform the radiated emission testing.

2.5. Description of Antenna RF Port

--	2.4/5GHz Antenna RF Port		
	2.4/5GHz	2.4/5GHz	2.4/5GHz
Software Control Port	Ant 0	Ant 1	Ant 2

Antenna RF Port Plot



2.6. Test Mode

Test Mode	Mode 1: Transmit by 802.11b
	Mode 2: Transmit by 802.11g
	Mode 3: Transmit by 802.11n-HT20
	Mode 4: Transmit by 802.11n-HT40

2.7. Description of Test Software

The test utility software used during testing were “ART2-GUI Version: 2.3” and “CART Version: 4.9”. Final Power Parameter Value of the test software.

Test Mode	Test	Power Parameter Value				
	Frequency	Ant 0	Ant 1	Ant 2	Ant 0 + 1	Ant 0 + 1 + 2
Omni Antenna 4#						
802.11b	2412	20.0	20.0	20.0	Not Support	Not Support
	2437	20.0	20.0	20.0		
	2462	20.0	20.0	20.0		
802.11g	2412	17.0	16.5	16.5	Not Support	Not Support
	2437	20.0	20.0	20.0		
	2462	17.5	17.0	16.5		
802.11n-HT20	2412	17.0	17.0	16.0	15.0	14.5
	2437	20.0	20.0	20.0	20.0	20.0
	2462	17.5	17.0	16.5	15.5	15.0
802.11n-HT40	2422	17.0	17.0	17.0	14.0	13.0
	2437	20.0	20.0	20.0	20.0	20.0
	2452	16.5	15.5	16.0	14.5	13.0

Note: The power setting was same as the original Omni antenna 1#.

2.8. Test Configuration

The **802.11ac Dual Band Module** was tested per the guidance of KDB 558074 D01v04. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.9. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.10. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 558074 D01v04 were used in the measurement of the **802.11ac Dual Band Module**.

Deviation from measurement procedure.....None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-25GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

4. TEST EQUIPMENT CALIBRATION DATE

Radiated Emission - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
PXA Signal Analyzer	Keysight	9030B	MRTSUE06395	1 year	2018/09/13
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2018/08/18
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2018/11/20
EXA Signal Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2018/04/25
Microwave System Amplifier	Agilent	83017A	MRTSUE06076	1 year	2018/11/17
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2018/11/18
Broad Band Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06023	1 year	2018/10/21
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06024	1 year	2018/12/14
Amplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2018/06/14
Thermohygrometer	Testo	608-H1	MRTSUE06403	1 year	2018/08/14
Anechoic Chamber	TDK	Chamber-AC1	MRTSUE06212	1 year	2018/05/10

Software	Version	Function
e3	V8.3.5	EMI Test Software

5. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Radiated Emission Measurement - AC1
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 9kHz ~ 1GHz: 4.18dB 1GHz ~ 25GHz: 4.76dB

6. TEST RESULT

6.1. Summary

Company Name: Compex Systems Pte Ltd
FCC ID: TK4WLE900VX
FCC Classification: Digital Transmission System (DTS)
Data Rate(s) Tested: 1Mbps ~ 11Mbps (b); 6Mbps ~ 54Mbps (g);
6.5/7.2Mbps ~ 65/72.2Mbps (n-HT20);
13.5/15Mbps ~ 405/450Mbps (n-HT40)

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.205 15.209	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated	Pass	Section 7.2&7.3

Note: All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.

6.2. Radiated Spurious Emission Measurement

6.2.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.2.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

6.2.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3MHz
4. Detector = peak

5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

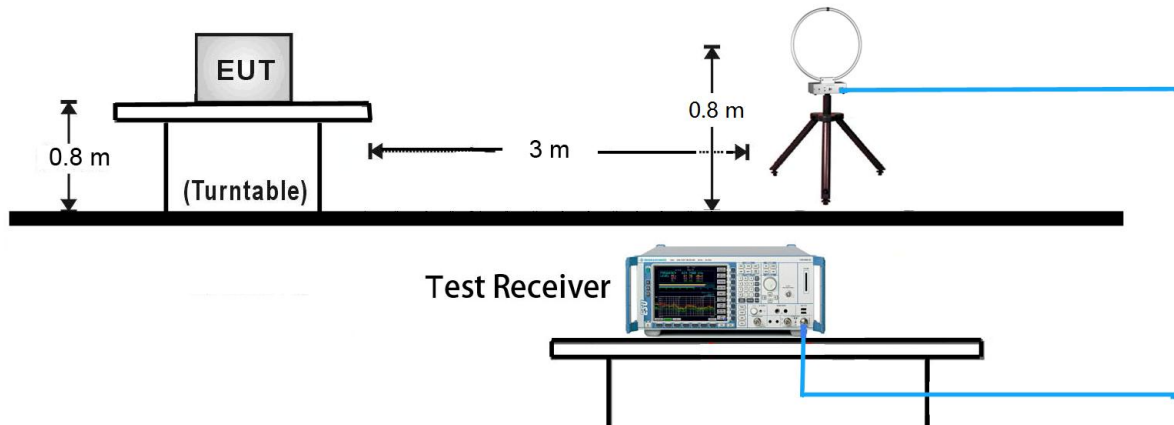
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

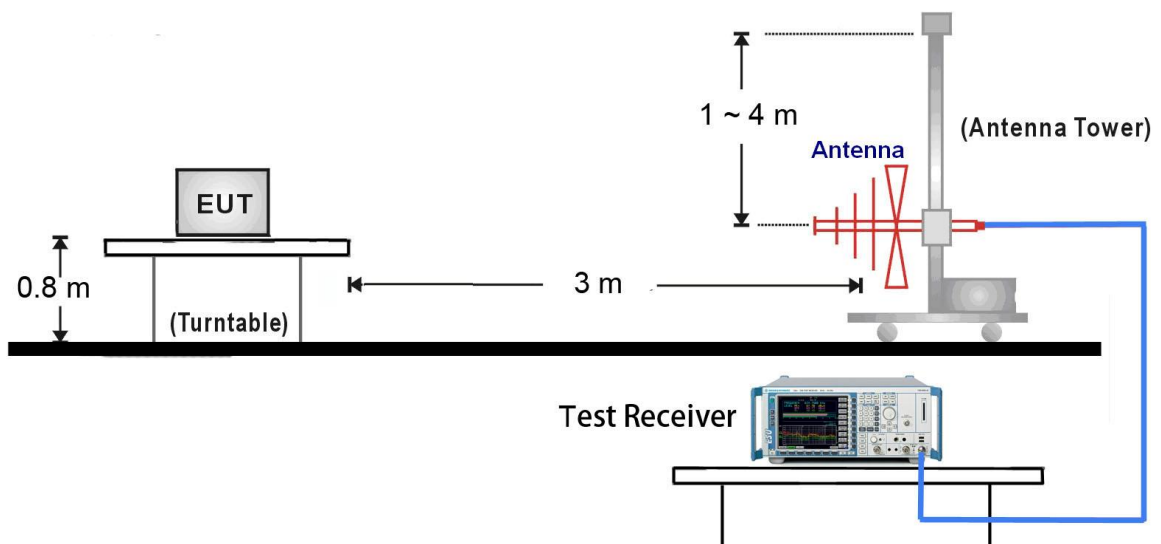
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

6.2.4. Test Setup

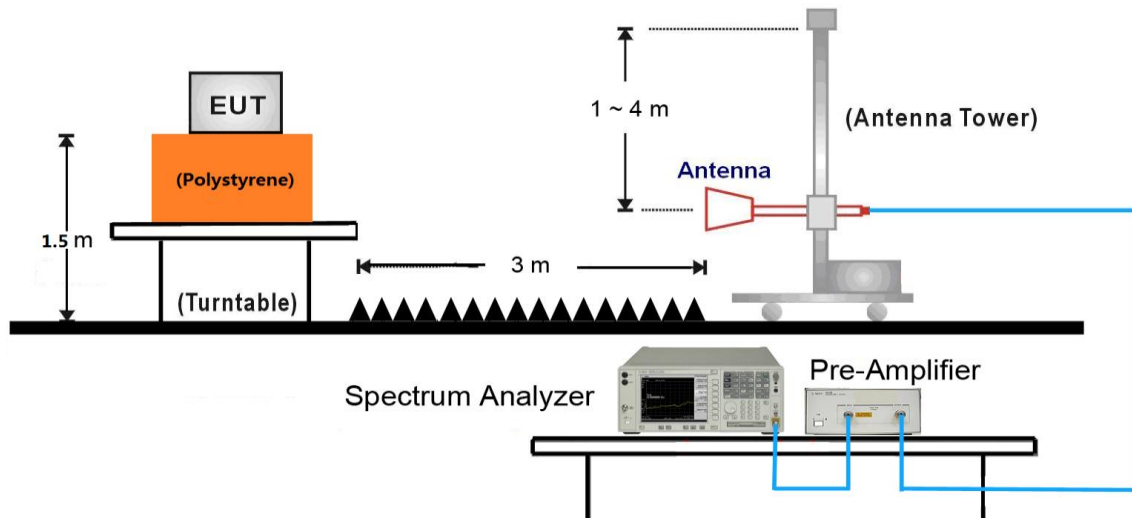
9kHz ~ 30MHz Test Setup:



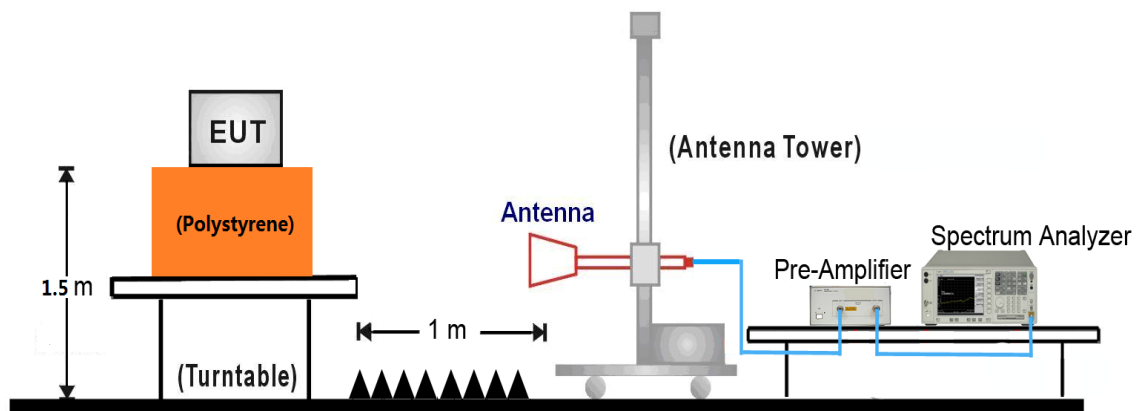
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~25GHz Test Setup:



6.2.5. Test Result

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11b - Ant 0	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4825.0	39.5	5.9	45.4	74.0	-28.6	Peak	Horizontal
*	7230.5	41.2	12.7	53.9	85.2	-31.3	Peak	Horizontal
	8361.0	37.7	12.6	50.3	74.0	-23.7	Peak	Horizontal
*	8794.5	36.3	13.3	49.6	85.2	-35.6	Peak	Horizontal
	4825.0	48.5	5.9	54.4	74.0	-19.6	Peak	Vertical
	4824.1	47.9	5.9	53.8	54.0	-0.2	Average	Vertical
*	7239.0	43.4	12.7	56.1	85.2	-29.1	Peak	Vertical
	7536.5	36.7	12.9	49.6	74.0	-24.4	Peak	Vertical
*	7893.5	36.6	13.4	50.0	85.2	-35.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (115.2dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11b - Ant 0	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4799.5	37.9	5.8	43.7	74.0	-30.3	Peak	Horizontal
*	6414.5	36.1	9.4	45.5	88.9	-43.4	Peak	Horizontal
	7434.5	36.8	12.8	49.6	74.0	-24.4	Peak	Horizontal
*	8786.0	34.7	13.3	48.0	88.9	-40.9	Peak	Horizontal
	4876.0	48.9	6.0	54.9	74.0	-19.1	Peak	Vertical
	4874.0	47.1	6.0	53.1	54.0	-0.9	Average	Vertical
*	6542.0	36.6	10.1	46.7	88.9	-42.2	Peak	Vertical
	7485.5	37.1	12.8	49.9	74.0	-24.1	Peak	Vertical
*	7919.0	36.0	13.4	49.4	88.9	-39.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (118.9dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11b - Ant 0	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4927.0	37.7	6.1	43.8	74.0	-30.2	Peak	Horizontal
*	6499.5	36.2	9.9	46.1	84.7	-38.6	Peak	Horizontal
	7468.5	36.6	12.9	49.5	74.0	-24.5	Peak	Horizontal
*	7910.5	36.1	13.4	49.5	84.7	-35.2	Peak	Horizontal
	4927.0	49.6	6.1	55.7	74.0	-18.3	Peak	Vertical
	4924.0	47.1	6.1	53.2	54.0	-0.8	Average	Vertical
*	6525.0	36.2	10.0	46.2	84.7	-38.5	Peak	Vertical
	7366.5	36.2	12.7	48.9	74.0	-25.1	Peak	Vertical
*	7927.5	36.2	13.5	49.7	84.7	-35.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (114.7dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11g - Ant 0	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	5020.5	37.6	6.4	44.0	74.0	-30.0	Peak	Horizontal
*	7213.5	37.6	12.6	50.2	82.6	-32.4	Peak	Horizontal
	7536.5	36.5	12.9	49.4	74.0	-24.6	Peak	Horizontal
*	7919.0	36.1	13.4	49.5	82.6	-33.1	Peak	Horizontal
	4816.5	45.2	5.9	51.1	74.0	-22.9	Peak	Vertical
*	6644.0	37.1	10.1	47.2	82.6	-35.4	Peak	Vertical
	7383.5	36.5	12.6	49.1	74.0	-24.9	Peak	Vertical
*	7876.5	36.3	13.3	49.6	82.6	-33.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (112.6dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11g - Ant 0	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4876.0	37.4	6.0	43.4	74.0	-30.6	Peak	Horizontal
*	6618.5	36.4	10.1	46.5	87.8	-41.3	Peak	Horizontal
	7315.5	37.8	12.6	50.4	74.0	-23.6	Peak	Horizontal
*	7961.5	36.0	13.5	49.5	87.8	-38.3	Peak	Horizontal
	4893.0	47.9	6.0	53.9	74.0	-20.1	Peak	Vertical
	4873.4	36.7	6.0	42.7	54.0	-11.3	Average	Vertical
*	6576.0	36.0	10.2	46.2	87.8	-41.6	Peak	Vertical
	7315.5	42.3	12.6	54.9	74.0	-19.1	Peak	Vertical
	7311.1	31.6	12.5	44.1	54.0	-9.9	Average	Vertical
	12254.0	36.3	17.4	53.7	74.0	-20.3	Peak	Vertical
	12188.8	24.0	17.5	41.5	54.0	-12.5	Average	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (117.8dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11g - Ant 0	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4833.5	37.4	5.9	43.3	74.0	-30.7	Peak	Horizontal
*	6312.5	36.0	8.8	44.8	82.9	-38.1	Peak	Horizontal
	7468.5	35.3	12.9	48.2	74.0	-25.8	Peak	Horizontal
*	7885.0	36.5	13.4	49.9	82.9	-33.0	Peak	Horizontal
	4918.5	46.4	6.1	52.5	74.0	-21.5	Peak	Vertical
*	6559.0	35.9	10.2	46.1	82.9	-36.8	Peak	Vertical
	7383.5	37.2	12.6	49.8	74.0	-24.2	Peak	Vertical
*	7910.5	36.0	13.4	49.4	82.9	-33.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (112.9dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT20 - Ant 0	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4995.0	36.9	6.3	43.2	74.0	-30.8	Peak	Horizontal
*	6550.5	36.4	10.2	46.6	80.8	-34.2	Peak	Horizontal
	7502.5	36.2	12.7	48.9	74.0	-25.1	Peak	Horizontal
*	7970.0	35.9	13.6	49.5	80.8	-31.3	Peak	Horizontal
	4833.5	46.4	5.9	52.3	74.0	-21.7	Peak	Vertical
*	6754.5	35.7	10.0	45.7	80.8	-35.1	Peak	Vertical
	7451.5	35.6	12.9	48.5	74.0	-25.5	Peak	Vertical
*	8004.0	36.1	13.7	49.8	80.8	-31.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (110.8dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT20 - Ant 0	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4893.0	36.7	6.0	42.7	74.0	-31.3	Peak	Horizontal
*	6508.0	35.3	9.9	45.2	84.1	-38.9	Peak	Horizontal
	7443.0	37.1	12.9	50.0	74.0	-24.0	Peak	Horizontal
*	7842.5	34.6	13.3	47.9	84.1	-36.2	Peak	Horizontal
	4867.5	48.3	6.0	54.3	74.0	-19.7	Peak	Vertical
	4873.9	35.7	6.0	41.7	54.0	-12.3	Average	Vertical
*	6448.5	35.7	9.7	45.4	84.1	-38.7	Peak	Vertical
	7315.5	41.9	12.6	54.5	74.0	-19.5	Peak	Vertical
	7310.9	30.1	12.5	42.6	54.0	-11.4	Average	Vertical
*	7893.5	35.0	13.4	48.4	84.1	-35.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (114.1dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT20 - Ant 0	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4935.5	37.6	6.1	43.7	74.0	-30.3	Peak	Horizontal
*	6567.5	36.4	10.2	46.6	83.2	-36.6	Peak	Horizontal
	7477.0	35.8	12.9	48.7	74.0	-25.3	Peak	Horizontal
*	7893.5	36.1	13.4	49.5	83.2	-33.7	Peak	Horizontal
	4927.0	45.2	6.1	51.3	74.0	-22.7	Peak	Vertical
*	6797.0	35.9	10.3	46.2	83.2	-37.0	Peak	Vertical
	7664.0	35.2	12.8	48.0	74.0	-26.0	Peak	Vertical
*	7876.5	34.7	13.3	48.0	83.2	-35.2	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (113.2dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT40 - Ant 0	Test Channel:	03
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4816.5	36.9	5.9	42.8	74.0	-31.2	Peak	Horizontal
*	6159.5	36.4	8.3	44.7	74.7	-30.0	Peak	Horizontal
	7443.0	35.6	12.9	48.5	74.0	-25.5	Peak	Horizontal
*	7851.0	35.2	13.3	48.5	74.7	-26.2	Peak	Horizontal
	4842.0	41.6	5.9	47.5	74.0	-26.5	Peak	Vertical
*	6550.5	35.3	10.2	45.5	74.7	-29.2	Peak	Vertical
	7562.0	36.2	12.9	49.1	74.0	-24.9	Peak	Vertical
*	7868.0	35.7	13.3	49.0	74.7	-25.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (104.7dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT40 - Ant 0	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4918.5	37.0	6.1	43.1	74.0	-30.9	Peak	Horizontal
*	6576.0	36.2	10.2	46.4	77.5	-31.1	Peak	Horizontal
	7460.0	35.9	12.9	48.8	74.0	-25.2	Peak	Horizontal
*	7851.0	35.7	13.3	49.0	77.5	-28.5	Peak	Horizontal
	4884.5	48.3	6.0	54.3	74.0	-19.7	Peak	Vertical
	4875.7	36.4	6.0	42.4	54.0	-11.6	Average	Vertical
*	6601.5	36.2	10.2	46.4	77.5	-31.1	Peak	Vertical
	7689.5	35.8	12.8	48.6	74.0	-25.4	Peak	Vertical
*	7885.0	35.4	13.4	48.8	77.5	-28.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (107.5dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT40 - Ant 0	Test Channel:	09
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4910.0	37.3	6.1	43.4	74.0	-30.6	Peak	Horizontal
*	6610.0	35.3	10.2	45.5	76.6	-31.1	Peak	Horizontal
	7392.0	36.4	12.6	49.0	74.0	-25.0	Peak	Horizontal
*	7987.0	36.0	13.7	49.7	76.6	-26.9	Peak	Horizontal
	4901.5	44.7	6.0	50.7	74.0	-23.3	Peak	Vertical
*	6499.5	36.3	9.9	46.2	76.6	-30.4	Peak	Vertical
	7434.5	36.1	12.8	48.9	74.0	-25.1	Peak	Vertical
*	7893.5	35.3	13.4	48.7	76.6	-27.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (106.6dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11b - Ant 1	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4825.0	37.7	5.9	43.6	74.0	-30.4	Peak	Horizontal
*	7239.0	36.7	12.7	49.4	84.6	-35.2	Peak	Horizontal
	7655.5	34.0	12.7	46.7	74.0	-27.3	Peak	Horizontal
*	7910.5	35.3	13.4	48.7	84.6	-35.9	Peak	Horizontal
	4825.0	47.9	5.9	53.8	74.0	-20.2	Peak	Vertical
	4824.0	46.5	5.9	52.4	54.0	-1.6	Average	Vertical
*	7239.0	42.8	12.7	55.5	84.6	-29.1	Peak	Vertical
	7536.5	35.7	12.9	48.6	74.0	-25.4	Peak	Vertical
*	7910.5	35.7	13.4	49.1	84.6	-35.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (114.6dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11b - Ant 1	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4910.0	37.1	6.1	43.2	74.0	-30.8	Peak	Horizontal
*	6533.5	36.6	10.0	46.6	89.6	-43.0	Peak	Horizontal
	7502.5	34.6	12.7	47.3	74.0	-26.7	Peak	Horizontal
*	7876.5	34.6	13.3	47.9	89.6	-41.7	Peak	Horizontal
	4876.0	45.9	6.0	51.9	74.0	-22.1	Peak	Vertical
	4874.1	45.3	6.0	51.3	54.0	-2.7	Average	Vertical
*	6729.0	35.7	10.1	45.8	89.6	-43.8	Peak	Vertical
	7315.5	40.4	12.6	53.0	74.0	-21.0	Peak	Vertical
	7310.2	35.4	12.5	47.9	54.0	-6.1	Average	Vertical
*	7970.0	35.8	13.6	49.4	89.6	-40.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (119.6dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11b - Ant 1	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4927.0	37.1	6.1	43.2	74.0	-30.8	Peak	Horizontal
*	6202.0	35.9	8.4	44.3	85.4	-41.1	Peak	Horizontal
	7400.5	35.7	12.6	48.3	74.0	-25.7	Peak	Horizontal
*	7876.5	35.4	13.3	48.7	85.4	-36.7	Peak	Horizontal
	4927.0	50.1	6.1	56.2	74.0	-17.8	Peak	Vertical
	4924.0	47.4	6.1	53.5	54.0	-0.5	Average	Vertical
*	6601.5	35.7	10.2	45.9	85.4	-39.5	Peak	Vertical
	7468.5	36.2	12.9	49.1	74.0	-24.9	Peak	Vertical
*	7876.5	36.1	13.3	49.4	85.4	-36.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (115.4dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11g - Ant 1	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4833.5	35.1	5.9	41.0	74.0	-33.0	Peak	Horizontal
*	6227.5	35.7	8.6	44.3	81.2	-36.9	Peak	Horizontal
	7468.5	34.7	12.9	47.6	74.0	-26.4	Peak	Horizontal
*	7953.0	34.7	13.5	48.2	81.2	-33.0	Peak	Horizontal
	4825.0	41.1	5.9	47.0	74.0	-27.0	Peak	Vertical
*	7239.0	36.4	12.7	49.1	81.2	-32.1	Peak	Vertical
	7536.5	34.2	12.9	47.1	74.0	-26.9	Peak	Vertical
*	7885.0	34.2	13.4	47.6	81.2	-33.6	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (111.2dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11g - Ant 1	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4884.5	37.8	6.0	43.8	74.0	-30.2	Peak	Horizontal
*	6372.0	35.6	9.1	44.7	89.4	-44.7	Peak	Horizontal
	7434.5	34.8	12.8	47.6	74.0	-26.4	Peak	Horizontal
*	7851.0	34.9	13.3	48.2	89.4	-41.2	Peak	Horizontal
	4876.0	44.0	6.0	50.0	74.0	-24.0	Peak	Vertical
*	6329.5	35.6	9.0	44.6	89.4	-44.8	Peak	Vertical
	7315.5	41.1	12.6	53.7	74.0	-20.3	Peak	Vertical
	7309.9	29.2	12.5	41.7	54.0	-12.3	Average	Vertical
*	7851.0	34.0	13.3	47.3	89.4	-42.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (119.4dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11g - Ant 1	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	5088.5	36.8	6.5	43.3	74.0	-30.7	Peak	Horizontal
*	6355.0	36.6	9.1	45.7	83.2	-37.5	Peak	Horizontal
	7400.5	35.0	12.6	47.6	74.0	-26.4	Peak	Horizontal
*	7859.5	34.4	13.3	47.7	83.2	-35.5	Peak	Horizontal
	4918.5	47.5	6.1	53.6	74.0	-20.4	Peak	Vertical
	4923.5	35.8	6.1	41.9	54.0	-12.1	Average	Vertical
*	6380.5	36.0	9.2	45.2	83.2	-38.0	Peak	Vertical
	7502.5	34.3	12.7	47.0	74.0	-27.0	Peak	Vertical
*	7885.0	34.6	13.4	48.0	83.2	-35.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (113.2dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT20 - Ant 1	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	5046.0	36.4	6.5	42.9	74.0	-31.1	Peak	Horizontal
*	6499.5	35.6	9.9	45.5	81.2	-35.7	Peak	Horizontal
	7417.5	35.9	12.7	48.6	74.0	-25.4	Peak	Horizontal
*	7851.0	35.2	13.3	48.5	81.2	-32.7	Peak	Horizontal
	4825.0	40.6	5.9	46.5	74.0	-27.5	Peak	Vertical
*	6457.0	35.4	9.8	45.2	81.2	-36.0	Peak	Vertical
	7536.5	34.8	12.9	47.7	74.0	-26.3	Peak	Vertical
*	8004.0	36.6	13.7	50.3	81.2	-30.9	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (111.2dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT20 - Ant 1	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4918.5	36.6	6.1	42.7	74.0	-31.3	Peak	Horizontal
*	6627.0	36.1	10.1	46.2	85.8	-39.6	Peak	Horizontal
	7315.5	37.4	12.6	50.0	74.0	-24.0	Peak	Horizontal
*	7970.0	35.8	13.6	49.4	85.8	-36.4	Peak	Horizontal
	4884.5	44.1	6.0	50.1	74.0	-23.9	Peak	Vertical
*	6321.0	35.6	8.9	44.5	85.8	-41.3	Peak	Vertical
	7307.0	40.3	12.5	52.8	74.0	-21.2	Peak	Vertical
	7312.2	29.1	12.5	41.6	54.0	-12.4	Average	Vertical
*	7902.0	36.1	13.4	49.5	85.8	-36.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (115.8dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT20 - Ant 1	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4816.5	37.7	5.9	43.6	74.0	-30.4	Peak	Horizontal
*	6457.0	35.1	9.8	44.9	82.5	-37.6	Peak	Horizontal
	7375.0	35.9	12.6	48.5	74.0	-25.5	Peak	Horizontal
*	7944.5	35.4	13.5	48.9	82.5	-33.6	Peak	Horizontal
	4927.0	46.6	6.1	52.7	74.0	-21.3	Peak	Vertical
	4923.6	34.2	6.1	40.3	54.0	-13.7	Average	Vertical
*	6321.0	36.3	8.9	45.2	82.5	-37.3	Peak	Vertical
	7434.5	35.8	12.8	48.6	74.0	-25.4	Peak	Vertical
*	7868.0	35.3	13.3	48.6	82.5	-33.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (112.5dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT40 - Ant 1	Test Channel:	03
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4918.5	37.3	6.1	43.4	74.0	-30.6	Peak	Horizontal
*	6542.0	36.1	10.1	46.2	75.7	-29.5	Peak	Horizontal
	7468.5	35.1	12.9	48.0	74.0	-26.0	Peak	Horizontal
*	7953.0	35.2	13.5	48.7	75.7	-27.0	Peak	Horizontal
	4850.5	38.7	5.9	44.6	74.0	-29.4	Peak	Vertical
*	6576.0	35.9	10.2	46.1	75.7	-29.6	Peak	Vertical
	7511.0	35.5	12.7	48.2	74.0	-25.8	Peak	Vertical
*	7936.0	35.5	13.5	49.0	75.7	-26.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (105.7dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT40 - Ant 1	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	5122.5	37.1	6.6	43.7	74.0	-30.3	Peak	Horizontal
*	6559.0	36.2	10.2	46.4	78.8	-32.4	Peak	Horizontal
	7502.5	35.8	12.7	48.5	74.0	-25.5	Peak	Horizontal
*	7919.0	34.5	13.4	47.9	78.8	-30.9	Peak	Horizontal
	4876.0	42.3	6.0	48.3	74.0	-25.7	Peak	Vertical
*	6652.5	35.7	10.1	45.8	78.8	-33.0	Peak	Vertical
	7443.0	35.6	12.9	48.5	74.0	-25.5	Peak	Vertical
*	7842.5	35.1	13.3	48.4	78.8	-30.4	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (108.8dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT40 - Ant 1	Test Channel:	09
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4935.5	36.6	6.1	42.7	74.0	-31.3	Peak	Horizontal
*	6601.5	35.6	10.2	45.8	76.0	-30.2	Peak	Horizontal
	7502.5	36.3	12.7	49.0	74.0	-25.0	Peak	Horizontal
*	7842.5	34.7	13.3	48.0	76.0	-28.0	Peak	Horizontal
	4901.5	38.9	6.0	44.9	74.0	-29.1	Peak	Vertical
*	6525.0	35.5	10.0	45.5	76.0	-30.5	Peak	Vertical
	7604.5	35.0	12.7	47.7	74.0	-26.3	Peak	Vertical
*	7859.5	35.6	13.3	48.9	76.0	-27.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (106.0dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11b - Ant 2	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4825.0	37.9	5.9	43.8	74.0	-30.2	Peak	Horizontal
*	7239.0	40.0	12.7	52.7	84.7	-32.0	Peak	Horizontal
	7519.5	35.5	12.8	48.3	74.0	-25.7	Peak	Horizontal
*	7910.5	35.5	13.4	48.9	84.7	-35.8	Peak	Horizontal
	4825.0	46.6	5.9	52.5	74.0	-21.5	Peak	Vertical
*	6270.0	36.7	8.6	45.3	84.7	-39.4	Average	Vertical
*	7239.0	43.7	12.7	56.4	84.7	-28.3	Peak	Vertical
*	7919.0	34.6	13.4	48.0	84.7	-36.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (114.7dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11b - Ant 2	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	5012.0	37.0	6.3	43.3	74.0	-30.7	Peak	Horizontal
*	6542.0	36.4	10.1	46.5	90.1	-43.6	Peak	Horizontal
	7315.5	39.5	12.6	52.1	74.0	-21.9	Peak	Horizontal
*	7834.0	36.4	13.2	49.6	90.1	-40.5	Peak	Horizontal
	4876.0	46.8	6.0	52.8	74.0	-21.2	Peak	Vertical
*	6610.0	36.1	10.2	46.3	90.1	-43.8	Peak	Vertical
	7307.0	41.8	12.5	54.3	74.0	-19.7	Peak	Vertical
	7310.2	36.1	12.5	48.6	54.0	-5.4	Average	Vertical
*	7859.5	35.2	13.3	48.5	90.1	-41.6	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (120.1dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11b - Ant 2	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4927.0	37.7	6.1	43.8	74.0	-30.2	Peak	Horizontal
*	6576.0	36.2	10.2	46.4	85.7	-39.3	Peak	Horizontal
	7451.5	37.4	12.9	50.3	74.0	-23.7	Peak	Horizontal
*	7995.5	35.2	13.7	48.9	85.7	-36.8	Peak	Horizontal
	4927.0	48.8	6.1	54.9	74.0	-19.1	Peak	Vertical
	4924.0	47.4	6.1	53.5	54.0	-0.5	Average	Vertical
*	6533.5	35.8	10.0	45.8	85.7	-39.9	Peak	Vertical
	7366.5	35.1	12.7	47.8	74.0	-26.2	Peak	Vertical
*	7987.0	35.1	13.7	48.8	85.7	-36.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (115.7dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11g - Ant 2	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	5139.5	37.0	6.6	43.6	74.0	-30.4	Peak	Horizontal
*	6457.0	36.1	9.8	45.9	82.3	-36.4	Peak	Horizontal
	7494.0	35.6	12.7	48.3	74.0	-25.7	Peak	Horizontal
*	7961.5	34.7	13.5	48.2	82.3	-34.1	Peak	Horizontal
	4825.0	41.0	5.9	46.9	74.0	-27.1	Peak	Vertical
*	6856.5	37.4	10.6	48.0	82.3	-34.3	Peak	Vertical
	7434.5	35.8	12.8	48.6	74.0	-25.4	Peak	Vertical
*	7859.5	36.7	13.3	50.0	82.3	-32.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (112.3dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11g - Ant 2	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4893.0	36.8	6.0	42.8	74.0	-31.2	Peak	Horizontal
*	6746.0	36.7	10.1	46.8	88.5	-41.7	Peak	Horizontal
	7315.5	37.4	12.6	50.0	74.0	-24.0	Peak	Horizontal
*	7936.0	34.6	13.5	48.1	88.5	-40.4	Peak	Horizontal
	4876.0	42.4	6.0	48.4	74.0	-25.6	Peak	Vertical
*	6601.5	35.4	10.2	45.6	88.5	-42.9	Peak	Vertical
	7315.5	39.8	12.6	52.4	74.0	-21.6	Peak	Vertical
*	7842.5	34.0	13.3	47.3	88.5	-41.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (118.5dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11g - Ant 2	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4859.0	35.1	5.9	41.0	74.0	-33.0	Peak	Horizontal
*	6635.5	36.7	10.1	46.8	83.0	-36.2	Peak	Horizontal
	7536.5	34.8	12.9	47.7	74.0	-26.3	Peak	Horizontal
*	7910.5	35.4	13.4	48.8	83.0	-34.2	Peak	Horizontal
	4927.0	46.4	6.1	52.5	74.0	-21.5	Peak	Vertical
*	6848.0	36.2	10.6	46.8	83.0	-36.2	Peak	Vertical
	7519.5	35.8	12.8	48.6	74.0	-25.4	Peak	Vertical
*	7978.5	35.6	13.6	49.2	83.0	-33.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (113.0dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT20 - Ant 2	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	5054.5	36.5	6.5	43.0	74.0	-31.0	Peak	Horizontal
*	6533.5	35.7	10.0	45.7	81.7	-36.0	Peak	Horizontal
	7579.0	35.8	12.8	48.6	74.0	-25.4	Peak	Horizontal
*	7995.5	37.1	13.7	50.8	81.7	-30.9	Peak	Horizontal
	4816.5	40.2	5.9	46.1	74.0	-27.9	Peak	Vertical
*	5921.5	36.2	7.8	44.0	81.7	-37.7	Peak	Vertical
	7298.5	34.1	12.5	46.6	74.0	-27.4	Peak	Vertical
*	7885.0	34.3	13.4	47.7	81.7	-34.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (111.7dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT20 - Ant 2	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4859.0	36.9	5.9	42.8	74.0	-31.2	Peak	Horizontal
*	6253.0	35.7	8.7	44.4	83.3	-38.9	Peak	Horizontal
	7315.5	36.1	12.6	48.7	74.0	-25.3	Peak	Horizontal
*	7885.0	34.8	13.4	48.2	83.3	-35.1	Peak	Horizontal
	4867.5	42.4	6.0	48.4	74.0	-25.6	Peak	Vertical
*	6627.0	36.0	10.1	46.1	83.3	-37.2	Peak	Vertical
	7307.0	37.3	12.5	49.8	74.0	-24.2	Peak	Vertical
*	7953.0	34.7	13.5	48.2	83.3	-35.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (113.3dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT20 - Ant 2	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4859.0	36.7	5.9	42.6	74.0	-31.4	Peak	Horizontal
*	6550.5	36.4	10.2	46.6	82.5	-35.9	Peak	Horizontal
	7451.5	36.0	12.9	48.9	74.0	-25.1	Peak	Horizontal
*	7808.5	35.4	13.2	48.6	82.5	-33.9	Peak	Horizontal
	4927.0	43.6	6.1	49.7	74.0	-24.3	Peak	Vertical
*	6465.5	36.1	9.8	45.9	82.5	-36.6	Peak	Vertical
	7468.5	34.6	12.9	47.5	74.0	-26.5	Peak	Vertical
*	7910.5	34.1	13.4	47.5	82.5	-35.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (112.5dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT40 - Ant 2	Test Channel:	03
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	5097.0	37.0	6.6	43.6	74.0	-30.4	Peak	Horizontal
*	6899.0	36.0	10.8	46.8	75.5	-28.7	Peak	Horizontal
	7570.5	34.2	12.9	47.1	74.0	-26.9	Peak	Horizontal
*	7851.0	34.4	13.3	47.7	75.5	-27.8	Peak	Horizontal
	4842.0	37.9	5.9	43.8	74.0	-30.2	Peak	Vertical
*	6754.5	35.8	10.0	45.8	75.5	-29.7	Peak	Vertical
	7434.5	34.7	12.8	47.5	74.0	-26.5	Peak	Vertical
*	7885.0	35.4	13.4	48.8	75.5	-26.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (105.5dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT40 - Ant 2	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4791.0	37.7	5.8	43.5	74.0	-30.5	Peak	Horizontal
*	5998.0	36.9	8.0	44.9	79.2	-34.3	Peak	Horizontal
	7630.0	35.9	12.6	48.5	74.0	-25.5	Peak	Horizontal
*	7919.0	34.0	13.4	47.4	79.2	-31.8	Peak	Horizontal
	4876.0	42.5	6.0	48.5	74.0	-25.5	Peak	Vertical
*	6542.0	35.5	10.1	45.6	79.2	-33.6	Peak	Vertical
	7647.0	34.0	12.7	46.7	74.0	-27.3	Peak	Vertical
*	7876.5	34.0	13.3	47.3	79.2	-31.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (109.2dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT40 - Ant 2	Test Channel:	09
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	5037.5	36.4	6.5	42.9	74.0	-31.1	Peak	Horizontal
*	6448.5	35.8	9.7	45.5	75.6	-30.1	Peak	Horizontal
	7536.5	35.2	12.9	48.1	74.0	-25.9	Peak	Horizontal
*	7851.0	34.5	13.3	47.8	75.6	-27.8	Peak	Horizontal
	4901.5	40.9	6.0	46.9	74.0	-27.1	Peak	Vertical
*	6550.5	35.6	10.2	45.8	75.6	-29.8	Peak	Vertical
	7426.0	35.6	12.8	48.4	74.0	-25.6	Peak	Vertical
*	7842.5	34.7	13.3	48.0	75.6	-27.6	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (105.6dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT20 - Ant 0 + 1	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4910.0	36.5	6.1	42.6	74.0	-31.4	Peak	Horizontal
*	6550.5	36.0	10.2	46.2	83.7	-37.5	Peak	Horizontal
	7366.5	35.8	12.7	48.5	74.0	-25.5	Peak	Horizontal
*	7961.5	35.5	13.5	49.0	83.7	-34.7	Peak	Horizontal
	4825.0	44.3	5.9	50.2	74.0	-23.8	Peak	Vertical
*	6627.0	36.0	10.1	46.1	83.7	-37.6	Peak	Vertical
	7553.5	36.3	13.0	49.3	74.0	-24.7	Peak	Vertical
*	7902.0	35.2	13.4	48.6	83.7	-35.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (113.7dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT20 - Ant 0 + 1	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4884.5	37.1	6.0	43.1	74.0	-30.9	Peak	Horizontal
*	6244.5	37.0	8.6	45.6	90.1	-44.5	Peak	Horizontal
	7332.5	34.7	12.6	47.3	74.0	-26.7	Peak	Horizontal
*	7876.5	35.6	13.3	48.9	90.1	-41.2	Peak	Horizontal
	4876.0	47.6	6.0	53.6	74.0	-20.4	Peak	Vertical
*	6508.0	35.7	9.9	45.6	90.1	-44.5	Peak	Vertical
	7324.0	39.4	12.6	52.0	74.0	-22.0	Peak	Vertical
*	7876.5	35.2	13.3	48.5	90.1	-41.6	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (120.1dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT20 - Ant 0 + 1	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4612.5	37.9	5.2	43.1	74.0	-30.9	Peak	Horizontal
*	6516.5	35.8	9.9	45.7	85.6	-39.9	Peak	Horizontal
	7502.5	35.0	12.7	47.7	74.0	-26.3	Peak	Horizontal
*	7919.0	34.3	13.4	47.7	85.6	-37.9	Peak	Horizontal
	4927.0	49.0	6.1	55.1	74.0	-18.9	Peak	Vertical
	4923.8	38.7	6.1	44.8	54.0	-9.2	Average	Vertical
*	6542.0	35.6	10.1	45.7	85.6	-39.9	Peak	Vertical
	7477.0	35.0	12.9	47.9	74.0	-26.1	Peak	Vertical
*	7842.5	35.5	13.3	48.8	85.6	-36.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (115.6dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT40 - Ant 0 + 1	Test Channel:	03
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4995.0	37.1	6.3	43.4	74.0	-30.6	Peak	Horizontal
*	6321.0	36.0	8.9	44.9	77.9	-33.0	Peak	Horizontal
	7502.5	34.3	12.7	47.0	74.0	-27.0	Peak	Horizontal
*	7893.5	34.5	13.4	47.9	77.9	-30.0	Peak	Horizontal
	4867.5	38.7	6.0	44.7	74.0	-29.3	Peak	Vertical
*	6431.5	36.2	9.5	45.7	77.9	-32.2	Peak	Vertical
	7315.5	35.0	12.6	47.6	74.0	-26.4	Peak	Vertical
*	7851.0	34.3	13.3	47.6	77.9	-30.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (107.9dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT40 - Ant 0 + 1	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4884.5	37.0	6.0	43.0	74.0	-31.0	Peak	Horizontal
*	6015.0	35.3	7.9	43.2	81.1	-37.9	Peak	Horizontal
	7579.0	33.5	12.8	46.3	74.0	-27.7	Peak	Horizontal
*	7893.5	33.7	13.4	47.1	81.1	-34.0	Peak	Horizontal
	4901.5	42.2	6.0	48.2	74.0	-25.8	Peak	Vertical
*	6601.5	35.6	10.2	45.8	81.1	-35.3	Peak	Vertical
	7426.0	37.6	12.8	50.4	74.0	-23.6	Peak	Vertical
*	7902.0	34.6	13.4	48.0	81.1	-33.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (111.1dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT40 - Ant 0 + 1	Test Channel:	09
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4723.0	36.8	5.6	42.4	74.0	-31.6	Peak	Horizontal
*	5887.5	34.4	7.8	42.2	78.0	-35.8	Peak	Horizontal
	7536.5	33.8	12.9	46.7	74.0	-27.3	Peak	Horizontal
*	7876.5	35.0	13.3	48.3	78.0	-29.7	Peak	Horizontal
	4927.0	38.9	6.1	45.0	74.0	-29.0	Peak	Vertical
*	6321.0	35.6	8.9	44.5	78.0	-33.5	Peak	Vertical
	7417.5	36.7	12.7	49.4	74.0	-24.6	Peak	Vertical
*	7910.5	34.7	13.4	48.1	78.0	-29.9	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (108.0dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT20 - Ant 0 + 1 + 2	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4833.5	36.8	5.9	42.7	74.0	-31.3	Peak	Horizontal
*	6278.5	36.3	8.6	44.9	85.3	-40.4	Peak	Horizontal
	7443.0	35.8	12.9	48.7	74.0	-25.3	Peak	Horizontal
*	7902.0	34.2	13.4	47.6	85.3	-37.7	Peak	Horizontal
	4833.5	42.8	5.9	48.7	74.0	-25.3	Peak	Vertical
*	6533.5	36.7	10.0	46.7	85.3	-38.6	Peak	Vertical
	7579.0	35.7	12.8	48.5	74.0	-25.5	Peak	Vertical
*	7953.0	34.7	13.5	48.2	85.3	-37.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (115.3dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT20 - Ant 0 + 1 + 2	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4867.5	36.7	6.0	42.7	74.0	-31.3	Peak	Horizontal
*	6040.5	35.4	7.9	43.3	92.0	-48.7	Peak	Horizontal
	7400.5	35.3	12.6	47.9	74.0	-26.1	Peak	Horizontal
*	7842.5	35.1	13.3	48.4	92.0	-43.6	Peak	Horizontal
	4876.0	50.1	6.0	56.1	74.0	-17.9	Peak	Vertical
	4875.1	38.5	6.0	44.5	54.0	-9.5	Average	Vertical
*	6542.0	36.7	10.1	46.8	92.0	-45.2	Peak	Vertical
	7307.0	39.2	12.5	51.7	74.0	-22.3	Peak	Vertical
*	7859.5	36.4	13.3	49.7	92.0	-42.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (122.0dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT20 - Ant 0 + 1 + 2	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	5080.0	36.6	6.5	43.1	74.0	-30.9	Peak	Horizontal
*	6474.0	35.3	9.9	45.2	84.0	-38.8	Peak	Horizontal
	7536.5	35.0	12.9	47.9	74.0	-26.1	Peak	Horizontal
*	7825.5	34.7	13.2	47.9	84.0	-36.1	Peak	Horizontal
	4927.0	43.7	6.1	49.8	74.0	-24.2	Peak	Vertical
*	6355.0	35.1	9.1	44.2	84.0	-39.8	Peak	Vertical
	7468.5	35.6	12.9	48.5	74.0	-25.5	Peak	Vertical
*	7995.5	35.2	13.7	48.9	84.0	-35.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (114.0dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT40 - Ant 0 + 1 + 2	Test Channel:	03
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4876.0	34.7	6.0	40.7	74.0	-33.3	Peak	Horizontal
*	6567.5	35.5	10.2	45.7	78.9	-33.2	Peak	Horizontal
	7468.5	35.6	12.9	48.5	74.0	-25.5	Peak	Horizontal
*	7995.5	35.2	13.7	48.9	78.9	-30.0	Peak	Horizontal
	4859.0	37.6	5.9	43.5	74.0	-30.5	Peak	Vertical
*	6601.5	35.7	10.2	45.9	78.9	-33.0	Peak	Vertical
	7638.5	34.7	12.6	47.3	74.0	-26.7	Peak	Vertical
*	7876.5	34.5	13.3	47.8	78.9	-31.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (108.9dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT40 - Ant 0 + 1 + 2	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4833.5	36.7	5.9	42.6	74.0	-31.4	Peak	Horizontal
*	6074.5	35.4	8.0	43.4	82.0	-38.6	Peak	Horizontal
	7621.5	34.2	12.6	46.8	74.0	-27.2	Peak	Horizontal
*	7842.5	35.8	13.3	49.1	82.0	-32.9	Peak	Horizontal
	4893.0	42.8	6.0	48.8	74.0	-25.2	Peak	Vertical
*	6584.5	33.8	10.2	44.0	82.0	-38.0	Peak	Vertical
	7400.5	34.9	12.6	47.5	74.0	-26.5	Peak	Vertical
*	7919.0	34.6	13.4	48.0	82.0	-34.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (112.0dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	802.11ac Dual Band Module	Temperature	23°C
Test Engineer	Bruce Wang	Relative Humidity	52%
Test Site	AC1	Test Date	2018/03/26
Test Mode:	802.11n-HT40 - Ant 0 + 1 + 2	Test Channel:	09
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4901.5	37.0	6.0	43.0	74.0	-31.0	Peak	Horizontal
*	6202.0	36.5	8.4	44.9	76.5	-31.6	Peak	Horizontal
	7485.5	36.3	12.8	49.1	74.0	-24.9	Peak	Horizontal
*	7919.0	34.7	13.4	48.1	76.5	-28.4	Peak	Horizontal
	4901.5	37.0	6.0	43.0	74.0	-31.0	Peak	Vertical
*	6295.5	36.6	8.7	45.3	76.5	-31.2	Peak	Vertical
	7621.5	34.0	12.6	46.6	74.0	-27.4	Peak	Vertical
*	7953.0	35.1	13.5	48.6	76.5	-27.9	Peak	Vertical

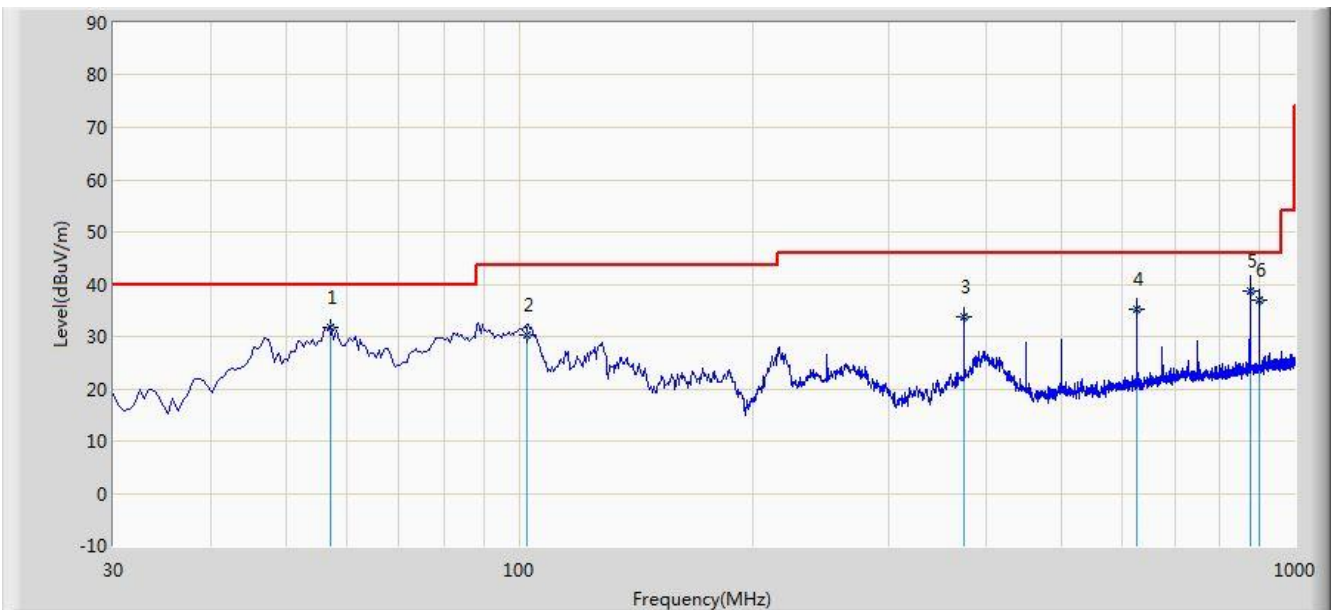
Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (106.5dBμV/m) or FCC 15.209 which is higher.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Worst Case of Radiated Emission below 1GHz:

Site: AC1	Time: 2018/04/01 - 18:05
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Bacon Dong
Probe: VULB 9168 _20-2000MHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Worse Case Mode: Transmit by 802.11b at Channel 2437MHz	



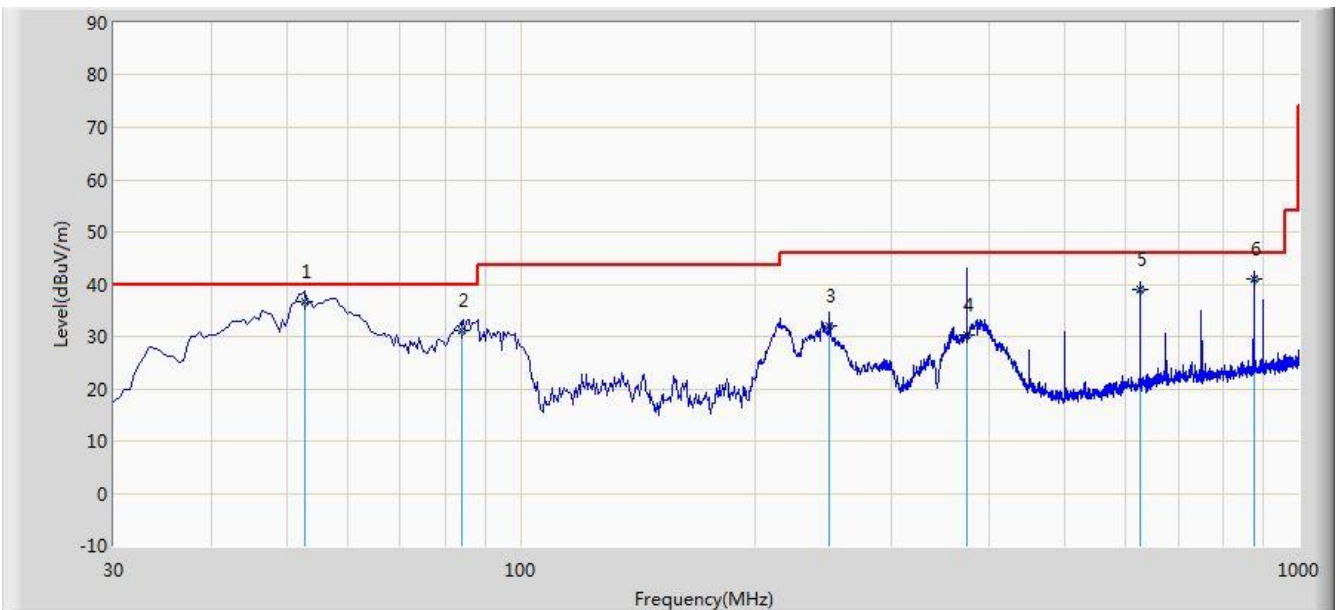
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			57.165	31.650	17.981	-8.350	40.000	13.669	QP
2			102.578	30.302	18.972	-13.198	43.500	11.330	QP
3			374.719	33.820	17.728	-12.180	46.000	16.092	QP
4			625.790	35.201	14.087	-10.799	46.000	21.115	QP
5		*	875.460	38.552	14.483	-7.448	46.000	24.068	QP
6			900.456	36.906	12.465	-9.094	46.000	24.441	QP

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

Site: AC1	Time: 2018/04/01 - 18:12
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Bacon Dong
Probe: VULB 9168 _20-2000MHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Worse Case Mode: Transmit by 802.11b at Channel 2437MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	52.749	36.766	22.771	-3.234	40.000	13.995	QP
2			84.070	31.083	20.887	-8.917	40.000	10.196	QP
3			249.740	32.096	19.078	-13.904	46.000	13.018	QP
4			374.817	30.177	14.083	-15.823	46.000	16.094	QP
5			625.178	38.996	17.893	-7.004	46.000	21.103	QP
6			875.347	41.150	17.083	-4.850	46.000	24.067	QP

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

6.3. Radiated Restricted Band Edge Measurement

6.3.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.25 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.3.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

6.3.3.Test Setting

Peak Field Strength Measurements

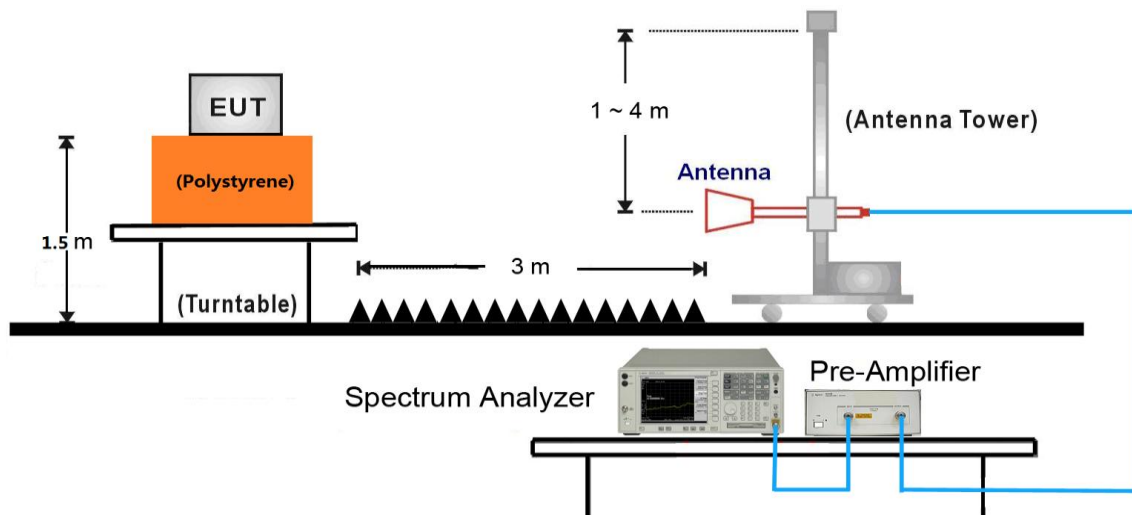
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

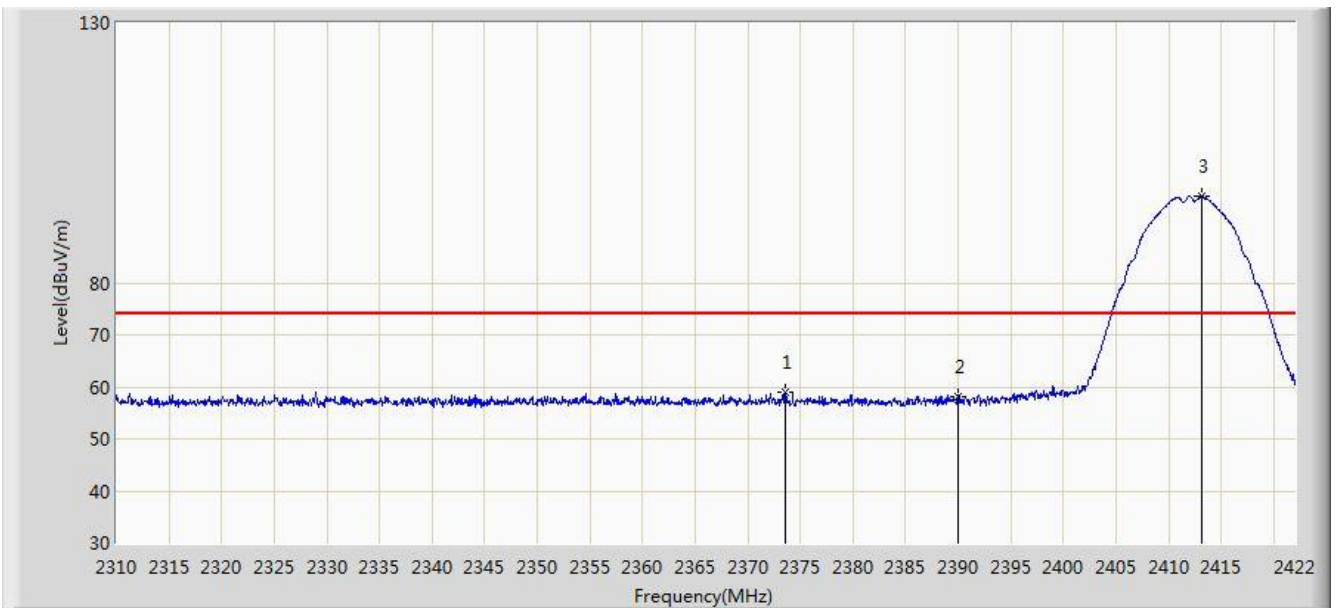
6.3.4.Test Setup

1GHz ~ 18GHz Test Setup:



6.3.5.Test Result

Site: AC1	Time: 2018/03/22 - 00:16
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11b at Channel 2412MHz, Ant 0	

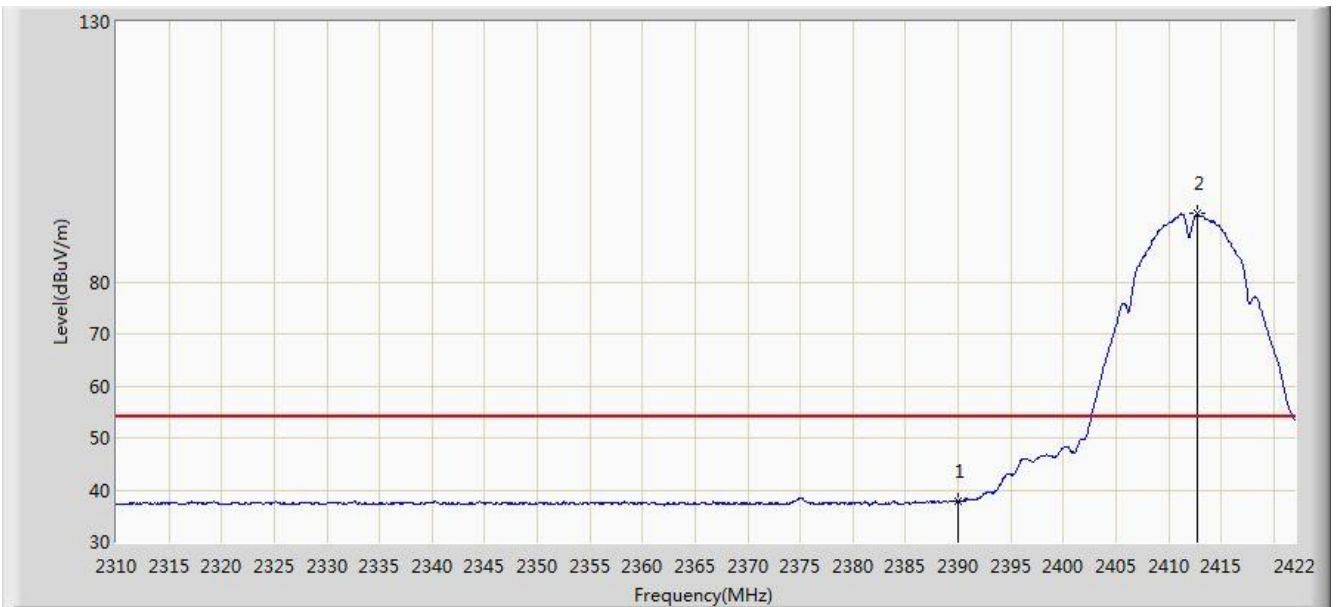


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2373.560	59.080	26.729	-14.920	74.000	32.352	PK
2			2390.000	58.157	25.830	-15.843	74.000	32.327	PK
3		*	2413.096	96.653	64.369	N/A	N/A	32.284	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 00:20
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11b at Channel 2412MHz, Ant 0	

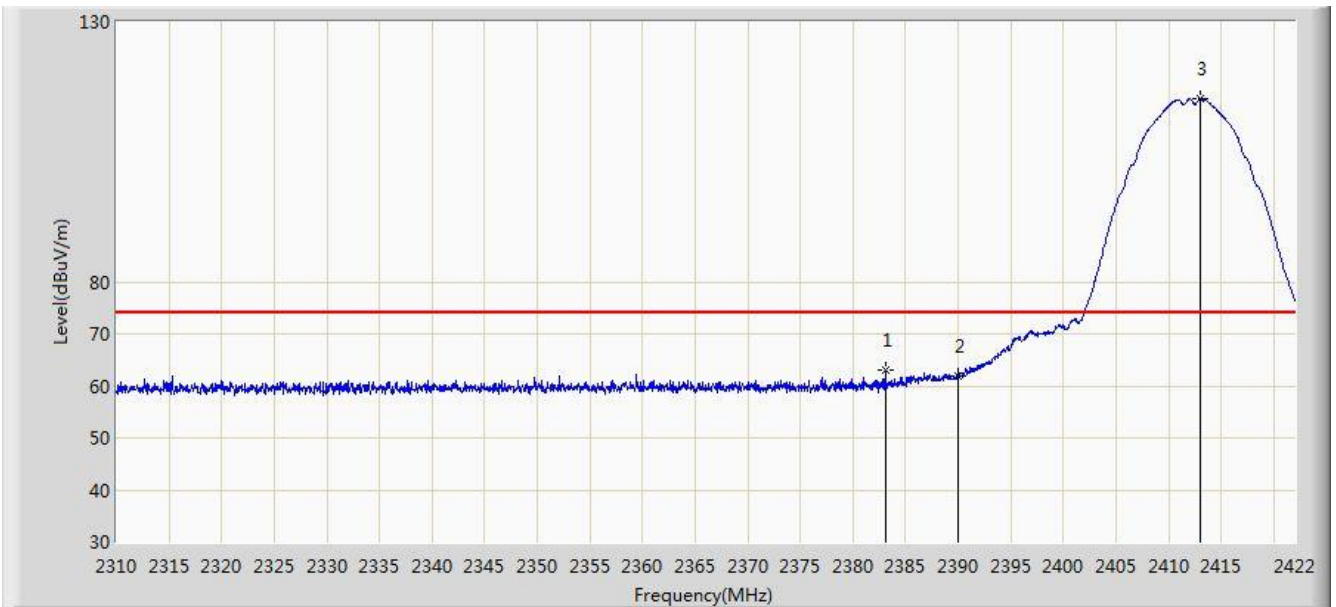


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	37.856	5.529	-16.144	54.000	32.327	AV
2		*	2412.760	93.117	60.832	N/A	N/A	32.284	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 00:20
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11b at Channel 2412MHz, Ant 0	

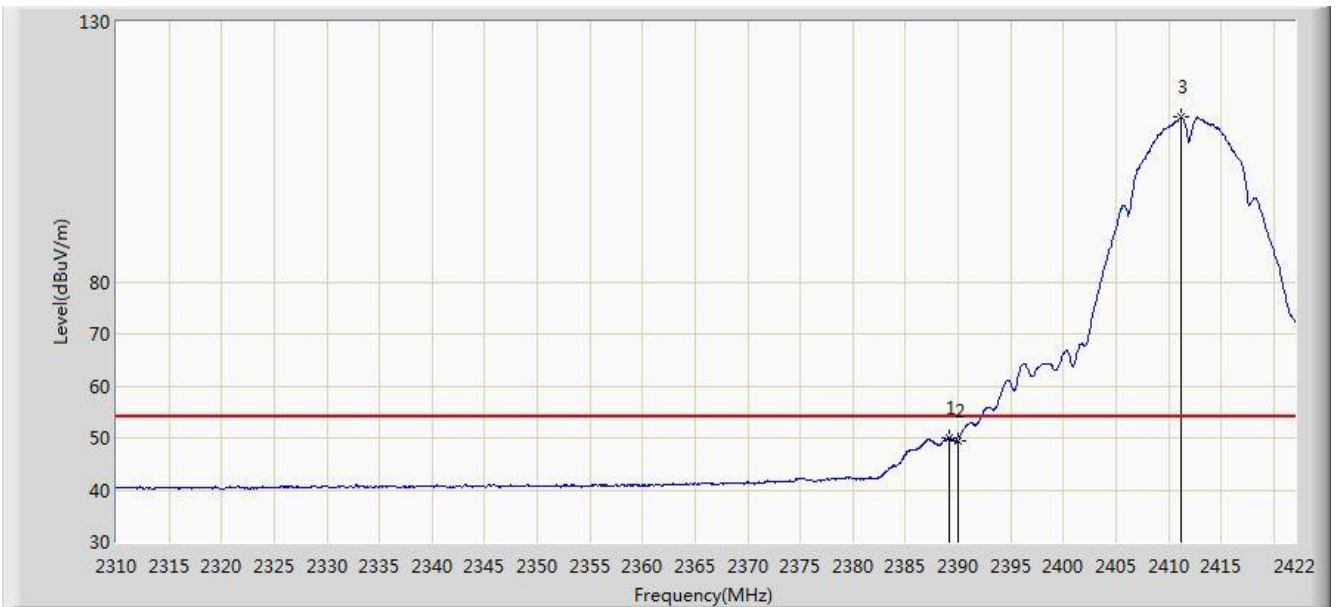


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2383.136	63.119	30.783	-10.881	74.000	32.337	PK
2			2390.000	61.994	29.667	-12.006	74.000	32.327	PK
3		*	2413.040	115.177	82.893	N/A	N/A	32.284	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 00:24
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11b at Channel 2412MHz, Ant 0	

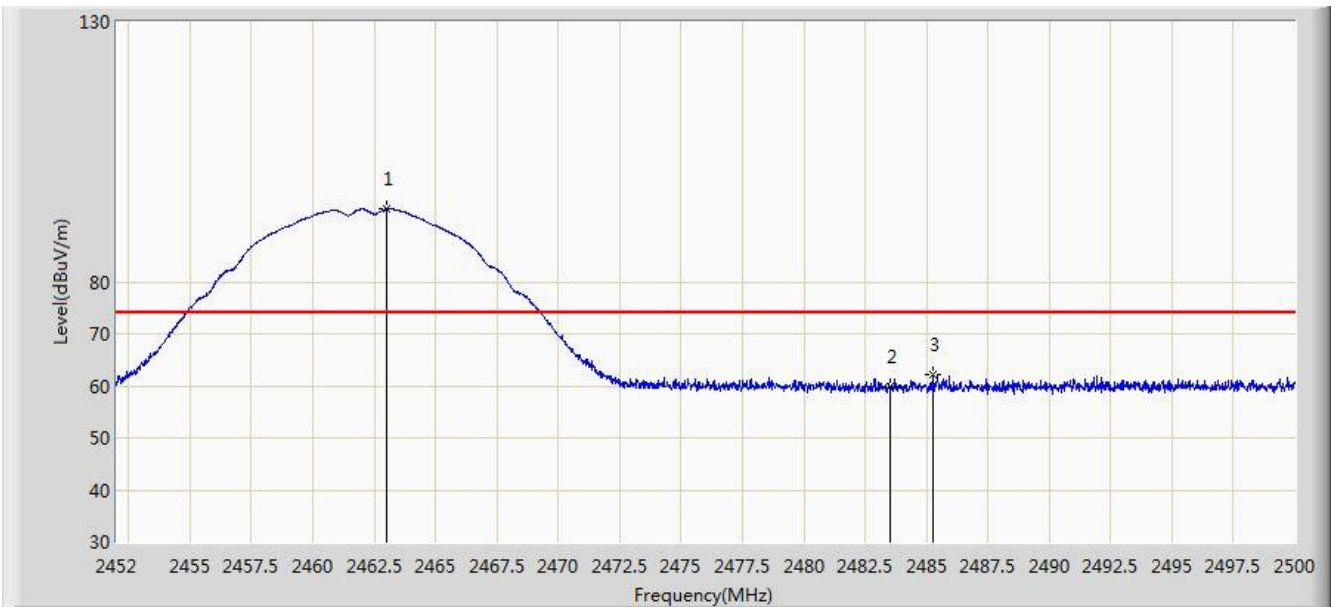


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.184	49.976	17.648	-4.024	54.000	32.328	AV
2			2390.000	49.454	17.127	-4.546	54.000	32.327	AV
3		*	2411.192	111.661	79.376	N/A	N/A	32.285	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 00:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11b at Channel 2462MHz, Ant 0	

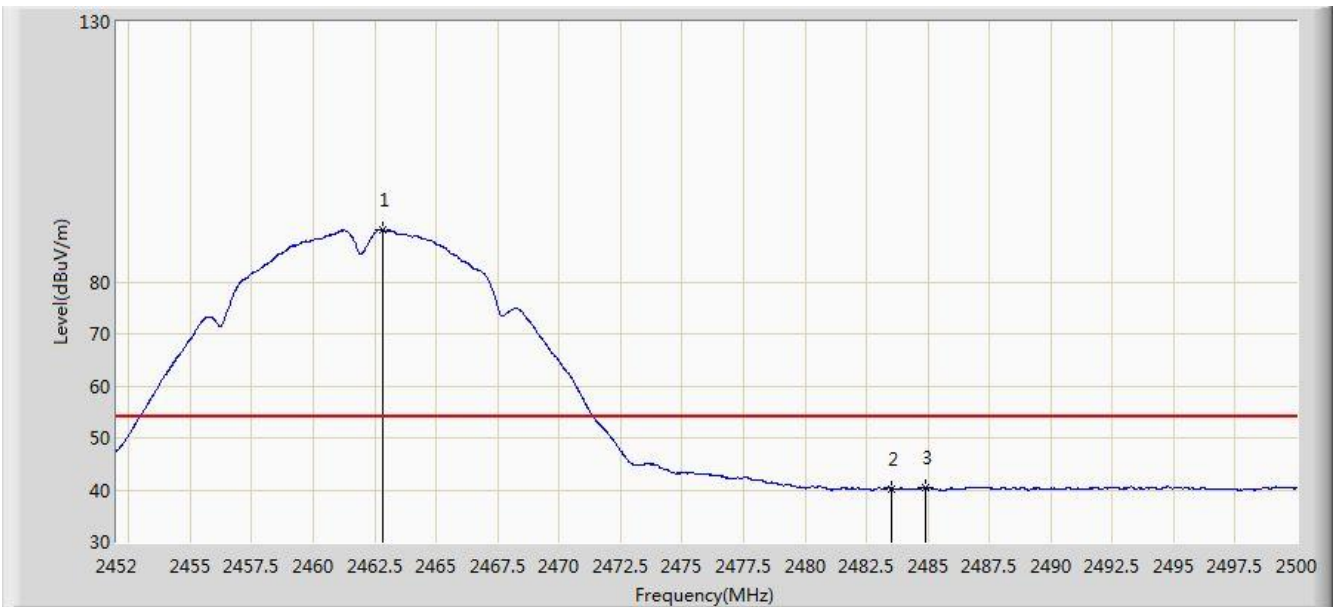


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.016	94.013	61.731	N/A	N/A	32.282	PK
2			2483.500	59.827	27.488	-14.173	74.000	32.340	PK
3			2485.240	62.147	29.801	-11.853	74.000	32.346	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 00:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11b at Channel 2462MHz, Ant 0	

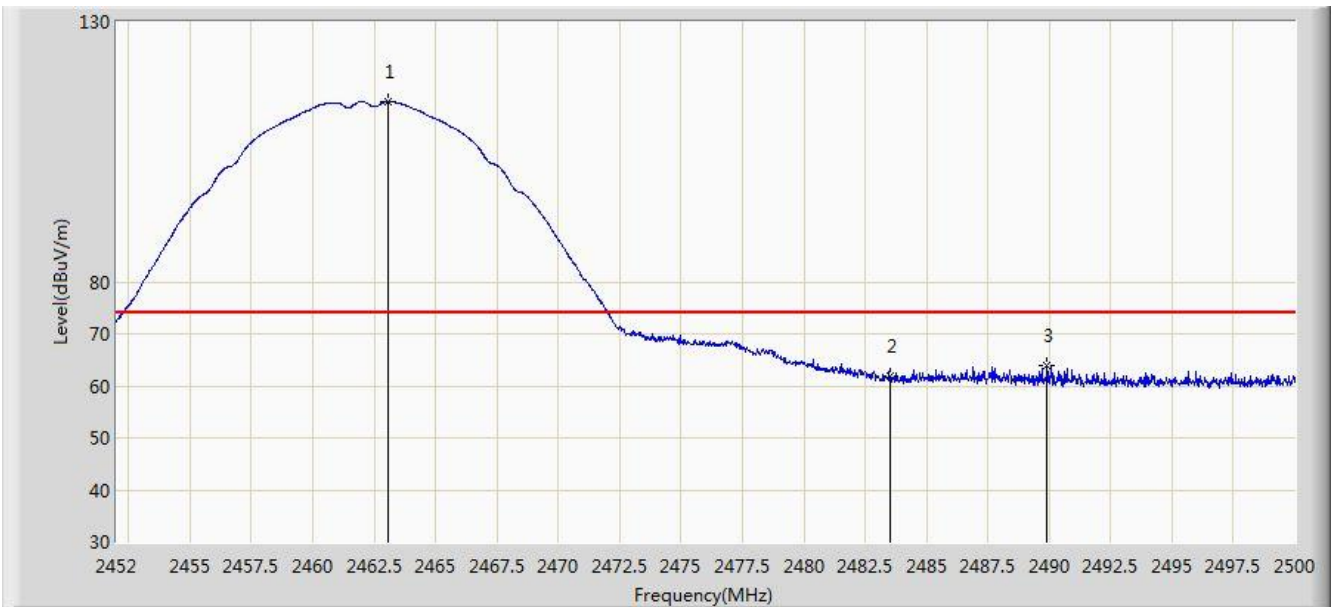


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.800	90.032	57.750	N/A	N/A	32.282	AV
2			2483.500	40.233	7.894	-13.767	54.000	32.340	AV
3			2484.904	40.453	8.108	-13.547	54.000	32.345	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 00:27
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11b at Channel 2462MHz, Ant 0	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.088	114.676	82.394	N/A	N/A	32.282	PK
2			2483.500	61.847	29.508	-12.153	74.000	32.340	PK
3			2489.920	64.008	31.644	-9.992	74.000	32.364	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 00:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11b at Channel 2462MHz, Ant 0	

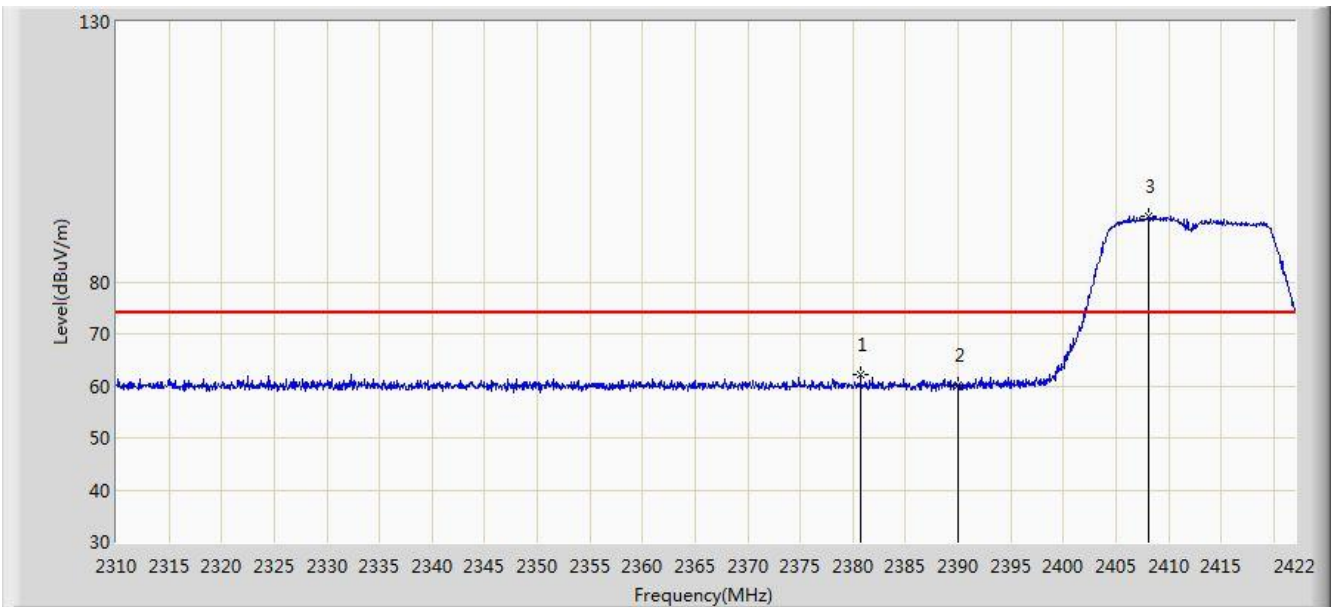


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.216	111.105	78.826	N/A	N/A	32.279	AV
2			2483.500	46.477	14.138	-7.523	54.000	32.340	AV
3			2486.224	47.139	14.789	-6.861	54.000	32.350	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 00:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2412MHz, Ant 0	

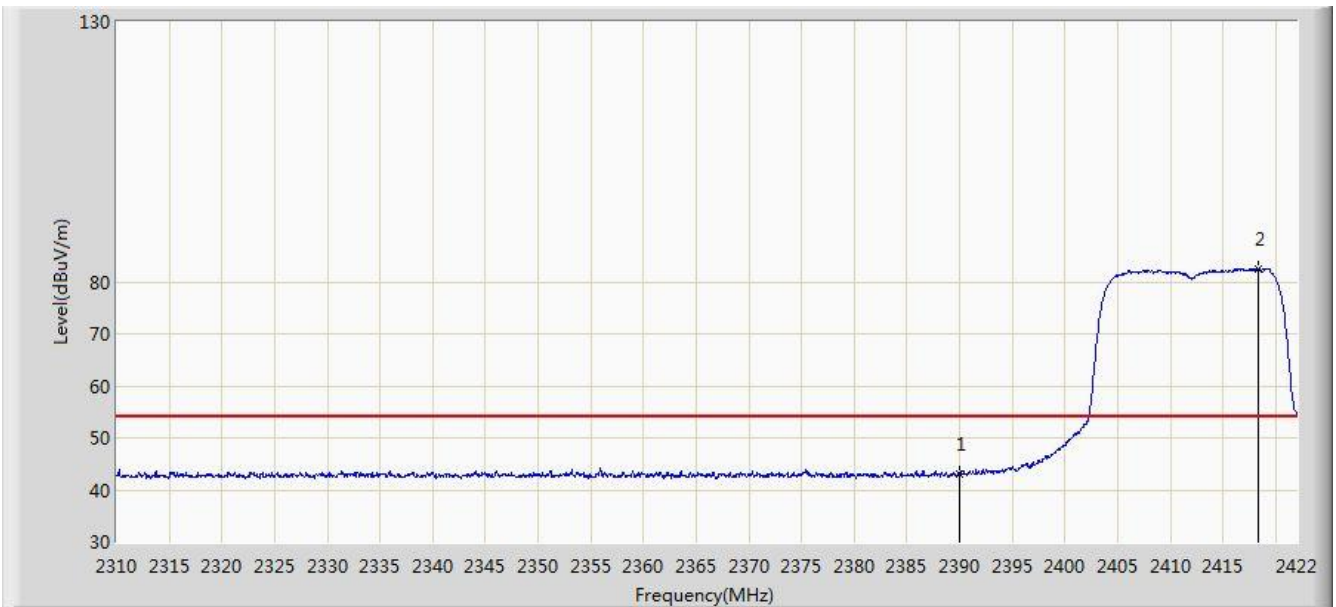


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2380.728	62.146	29.807	-11.854	74.000	32.340	PK
2			2390.000	60.087	27.760	-13.913	74.000	32.327	PK
3		*	2408.168	92.631	60.340	N/A	N/A	32.291	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 00:52
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2412MHz, Ant 0	

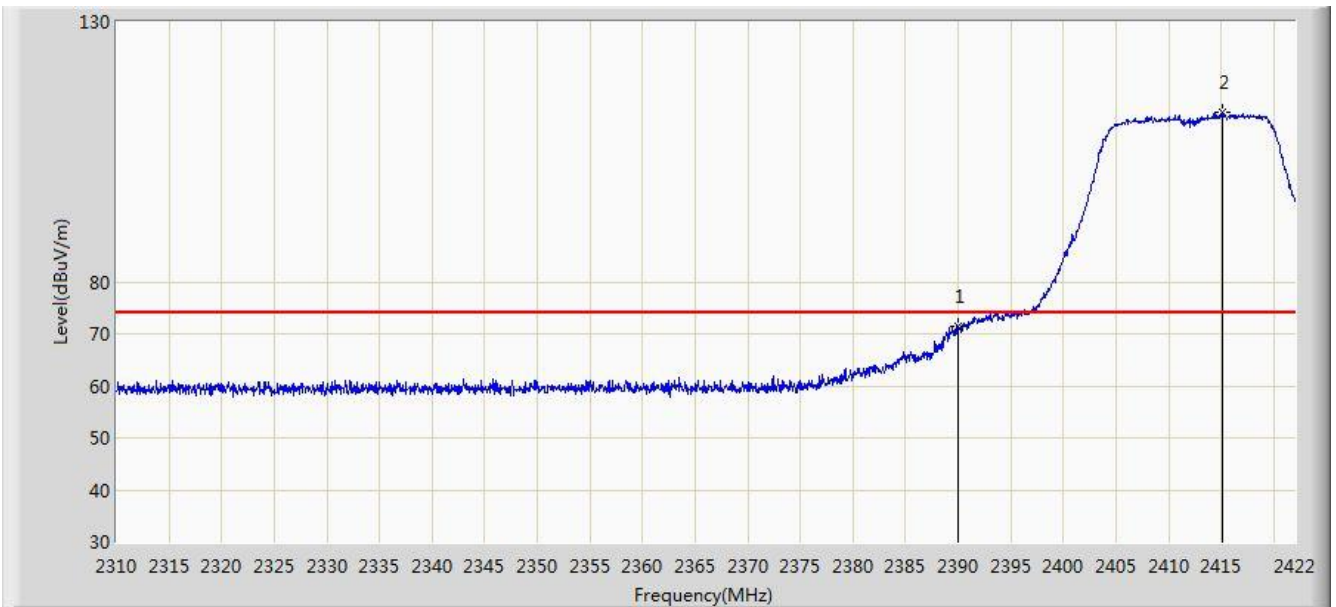


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	43.071	10.744	-10.929	54.000	32.327	AV
2		*	2418.360	82.545	50.263	N/A	N/A	32.282	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 00:42
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2412MHz, Ant 0	

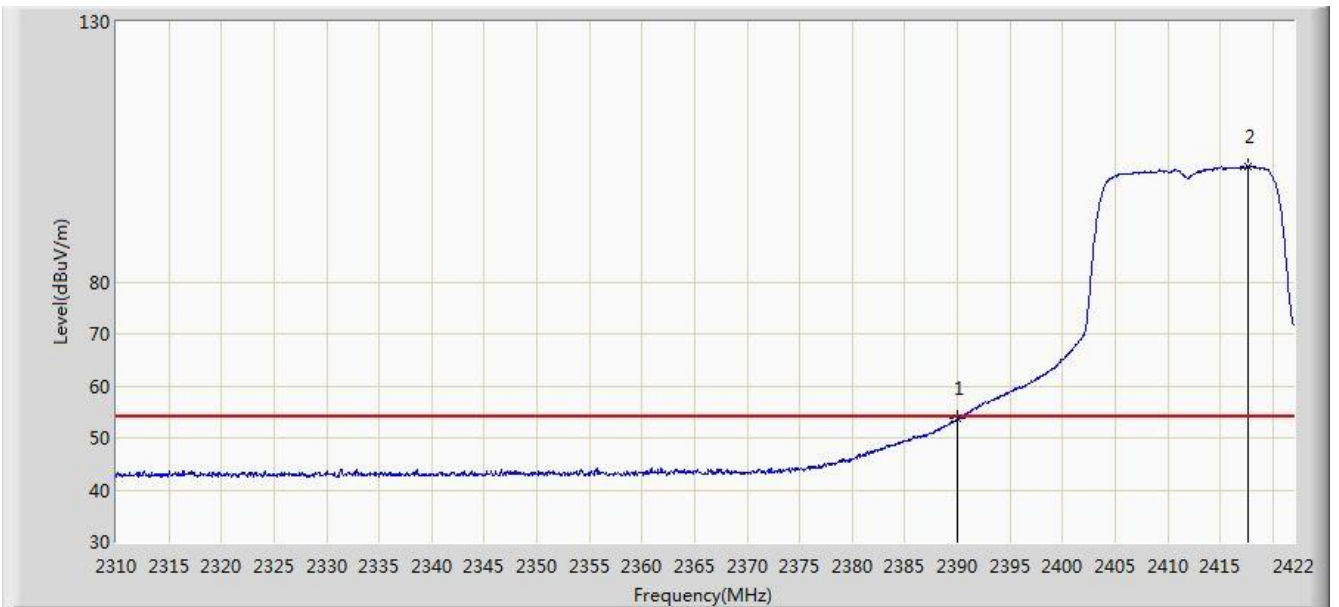


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	71.319	38.992	-2.681	74.000	32.327	PK
2		*	2415.168	112.626	80.343	N/A	N/A	32.283	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 00:40
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2412MHz, Ant 0	

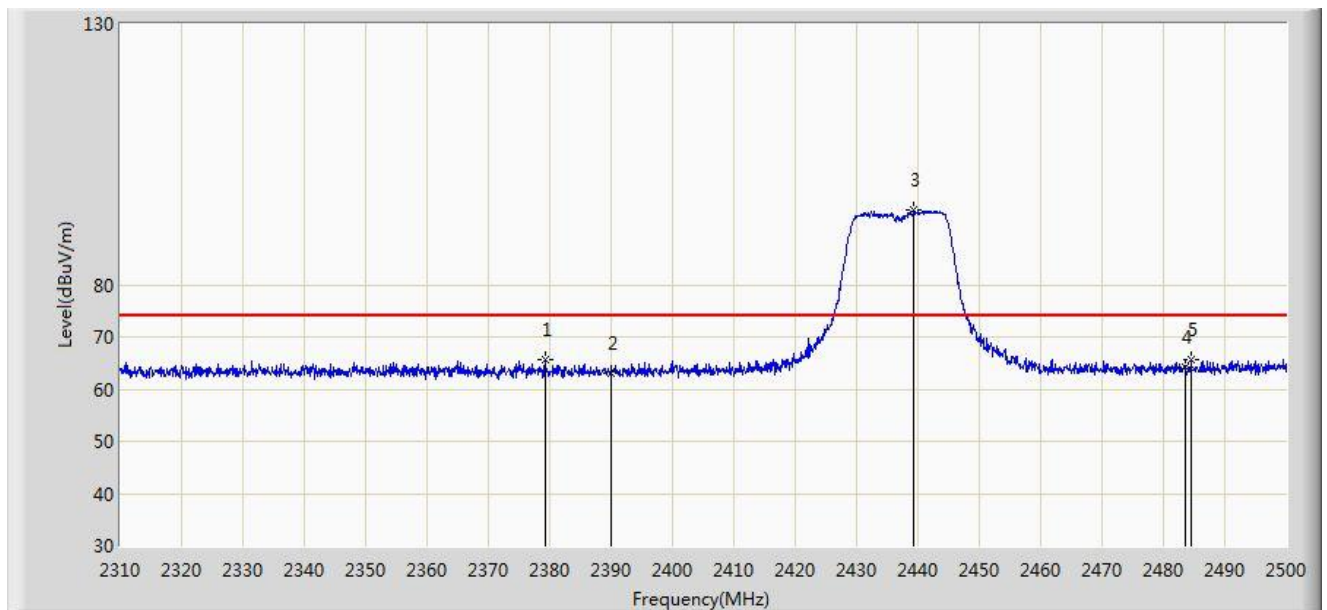


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	53.673	21.346	-0.327	54.000	32.327	AV
2		*	2417.688	102.297	70.015	N/A	N/A	32.282	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

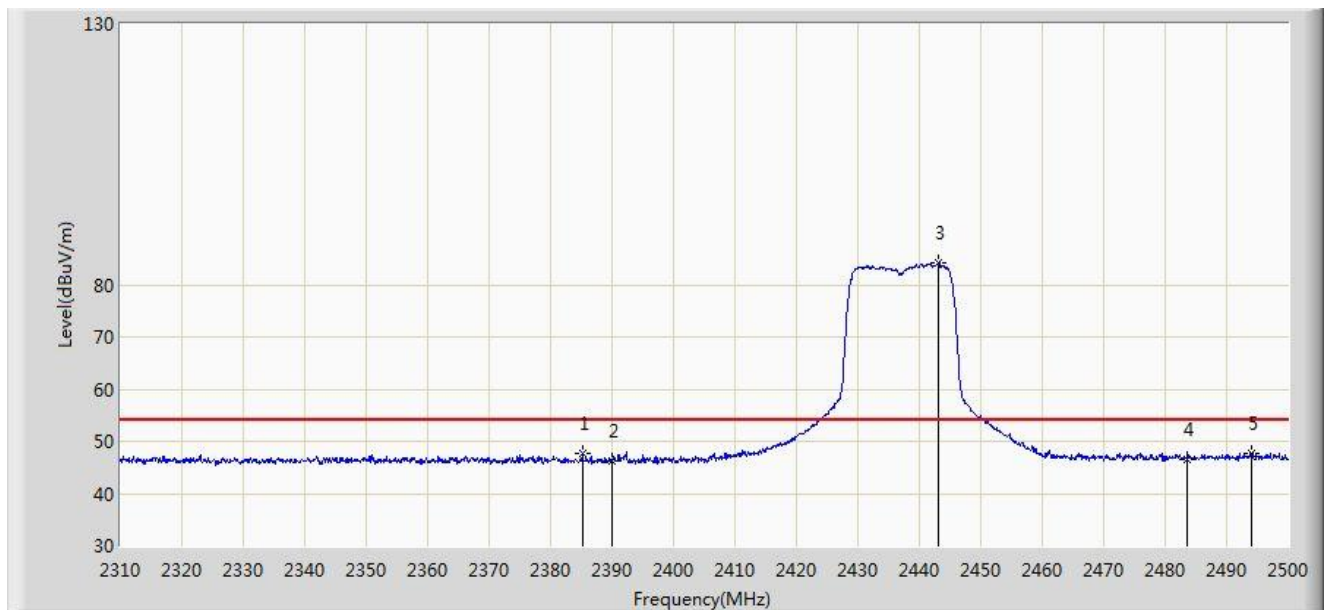
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/04/18 - 18:05
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2437MHz, Ant 0	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2379.255	65.563	33.221	-8.437	74.000	32.342	PK
2			2390.000	63.098	30.771	-10.902	74.000	32.327	PK
3			2439.295	94.227	61.968	N/A	N/A	32.260	PK
4			2483.500	64.176	31.837	-9.824	74.000	32.340	PK
5			2484.515	65.522	33.179	-8.478	74.000	32.343	PK

Site: AC1	Time: 2018/04/18 - 18:08
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2437MHz, Ant 0	

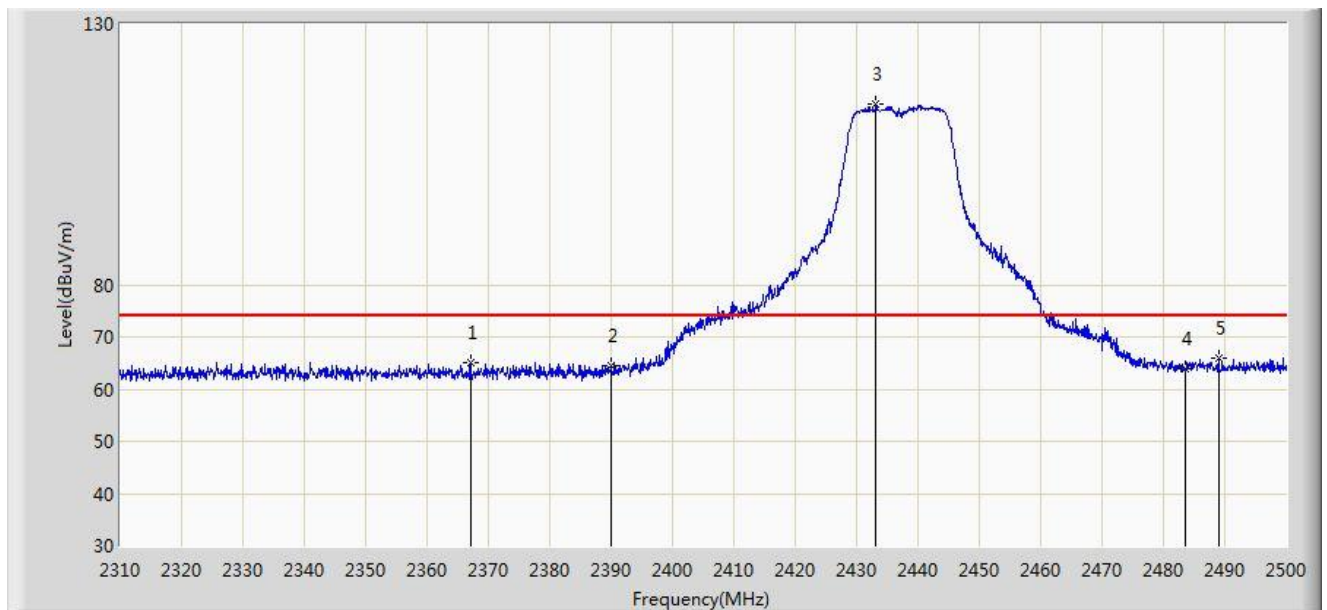


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.240	47.764	15.431	-6.236	54.000	32.333	AV
2			2390.000	46.193	13.866	-7.807	54.000	32.327	AV
3			2443.190	84.169	51.916	N/A	N/A	32.253	AV
4			2483.500	46.619	14.280	-7.381	54.000	32.340	AV
5			2494.110	47.744	15.363	-6.256	54.000	32.381	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/04/18 - 18:02
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2437MHz, Ant 0	

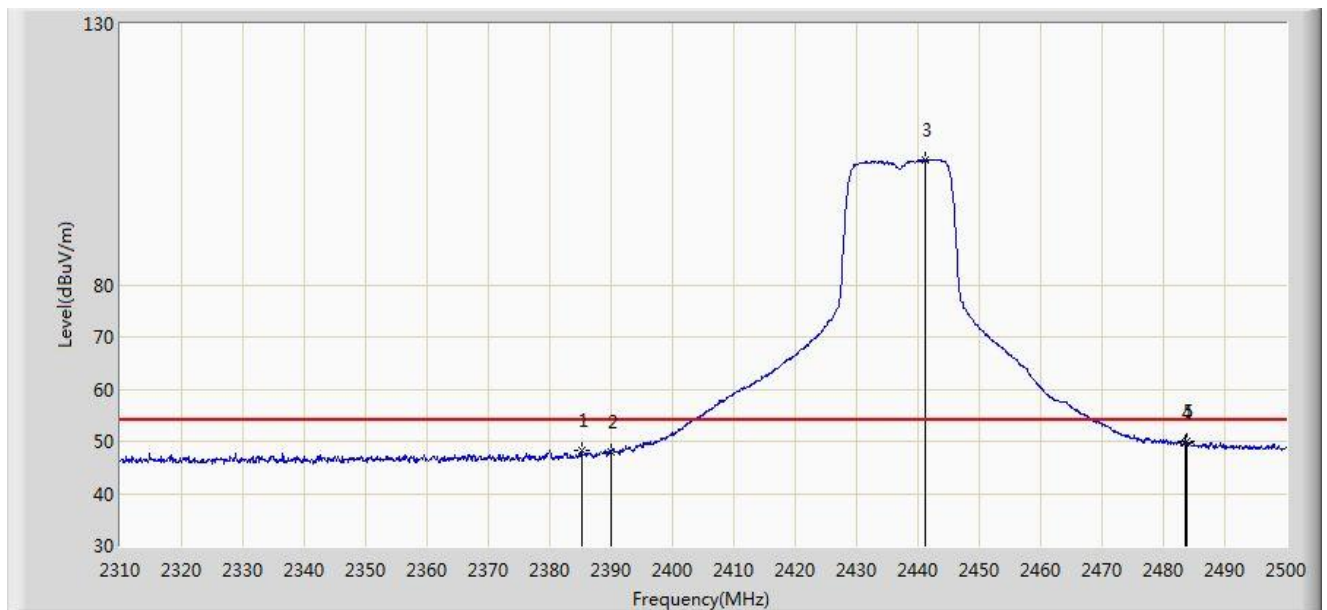


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2367.095	65.111	32.748	-8.889	74.000	32.363	PK
2			2390.000	64.490	32.163	-9.510	74.000	32.327	PK
3			2433.120	114.570	82.301	N/A	N/A	32.270	PK
4			2483.500	63.780	31.441	-10.220	74.000	32.340	PK
5			2488.980	65.894	33.533	-8.106	74.000	32.361	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/04/18 - 18:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2437MHz, Ant 0	

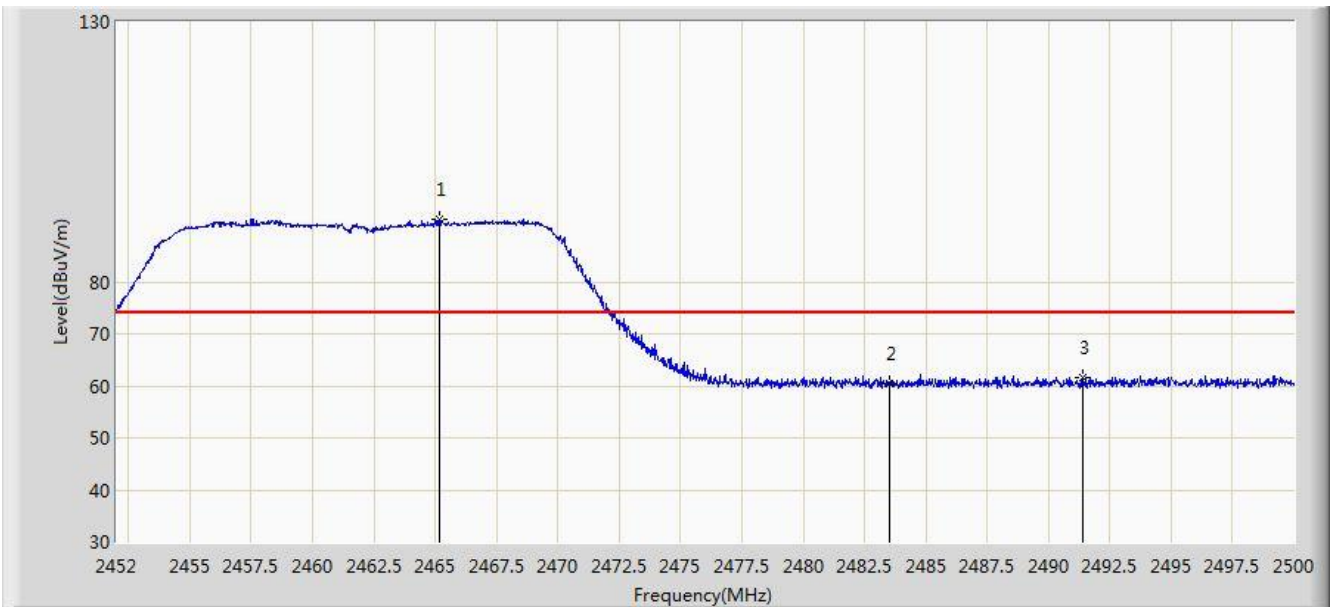


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.240	48.192	15.859	-5.808	54.000	32.333	AV
2			2390.000	48.085	15.758	-5.915	54.000	32.327	AV
3			2441.195	103.994	71.738	N/A	N/A	32.256	AV
4			2483.500	49.833	17.494	-4.167	54.000	32.340	AV
5			2483.755	49.906	17.566	-4.094	54.000	32.340	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 01:00
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2462MHz, Ant 0	

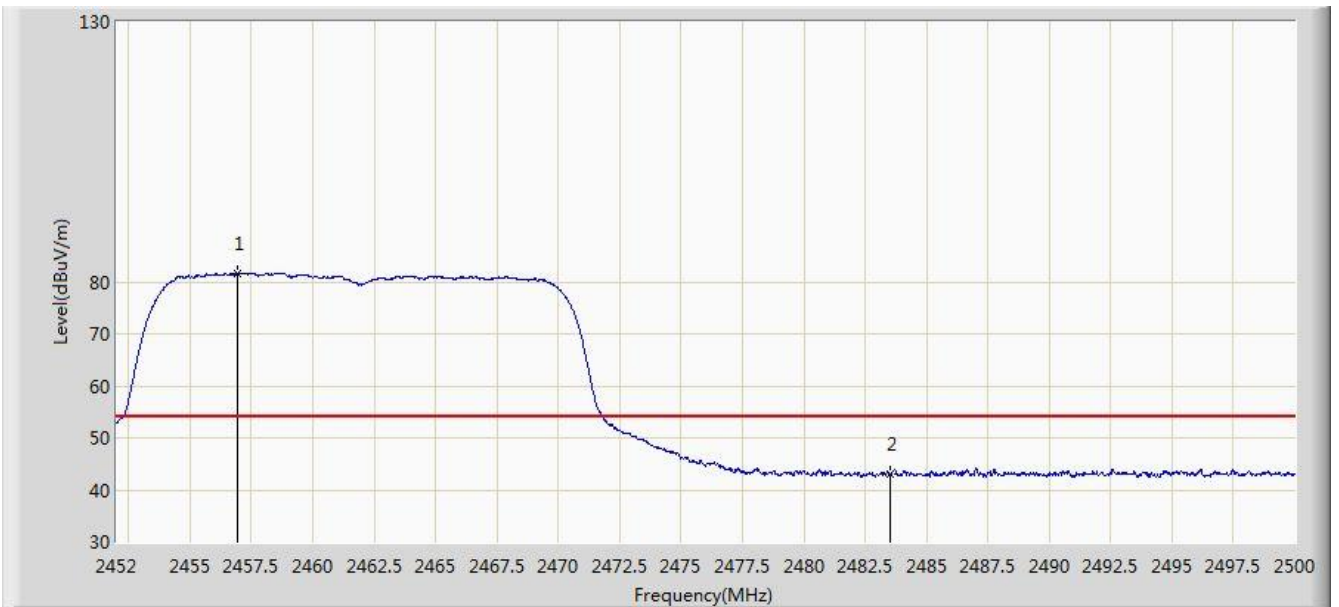


a	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2465.152	91.965	59.678	N/A	N/A	32.286	PK
2			2483.500	60.341	28.002	-13.659	74.000	32.340	PK
3			2491.384	61.564	29.194	-12.436	74.000	32.370	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 01:13
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2462MHz, Ant 0	

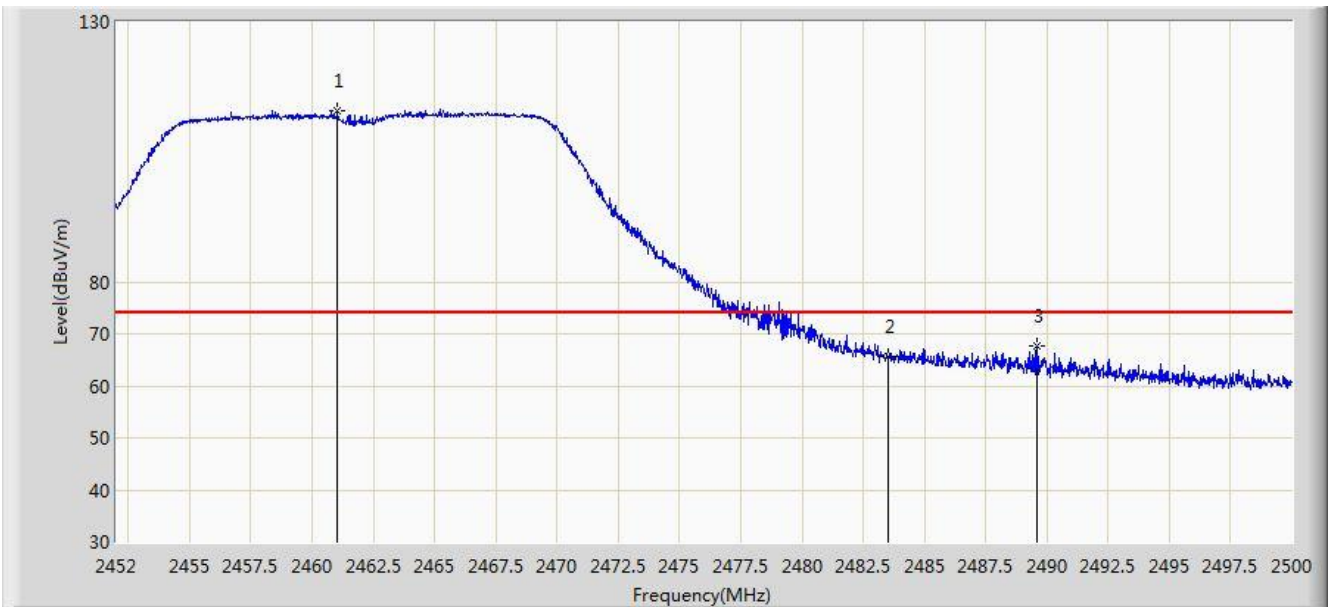


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2456.944	81.695	49.425	N/A	N/A	32.270	AV
2			2483.500	43.117	10.778	-10.883	54.000	32.340	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 00:59
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2462MHz, Ant 0	

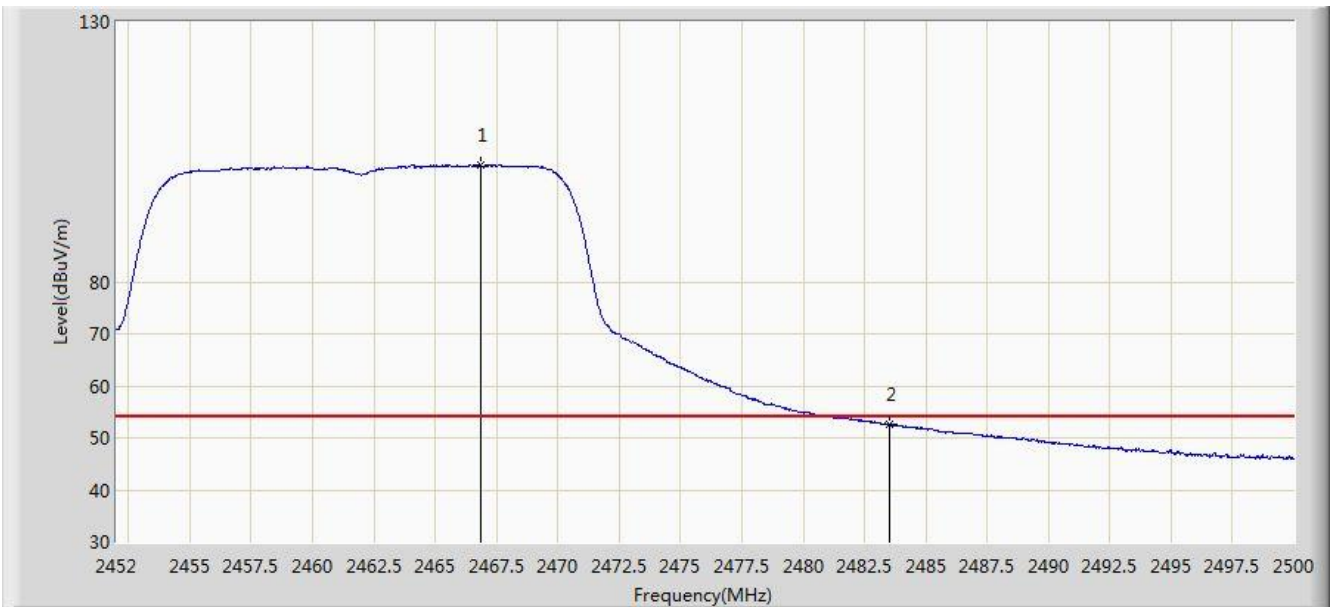


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.048	112.915	80.637	N/A	N/A	32.279	PK
2			2483.500	65.526	33.187	-8.474	74.000	32.340	PK
3			2489.584	67.721	35.358	-6.279	74.000	32.363	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 00:58
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2462MHz, Ant 0	

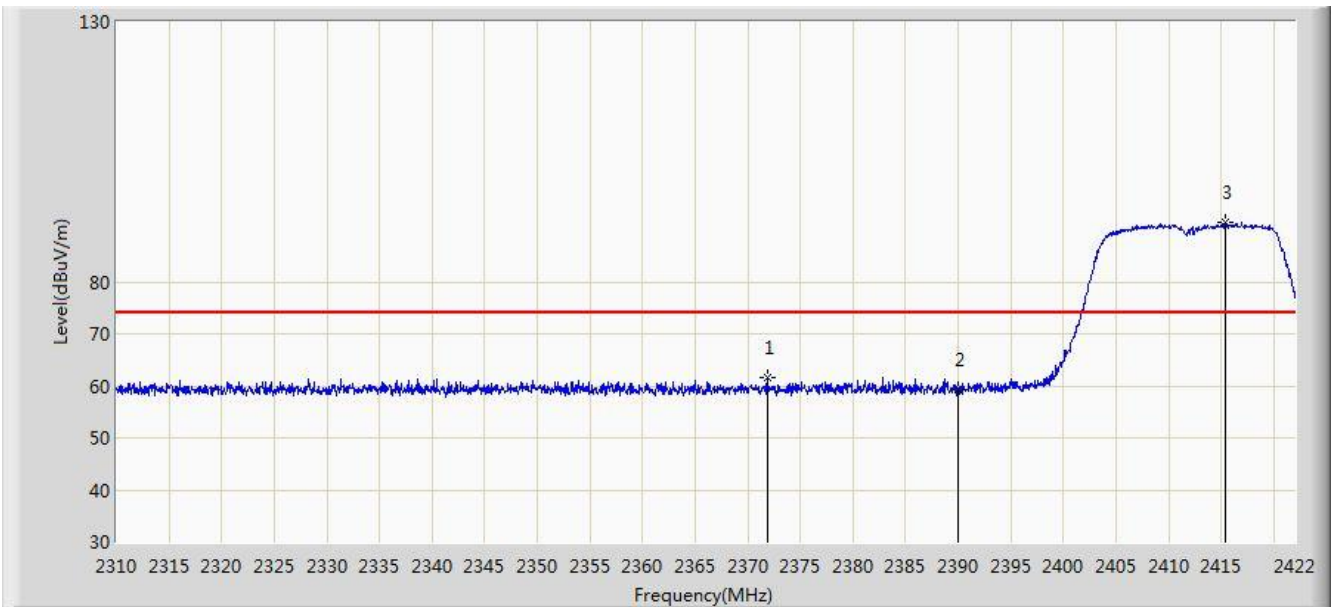


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2466.832	102.521	70.230	N/A	N/A	32.290	AV
2			2483.500	52.729	20.390	-1.271	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 01:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz, Ant 0	

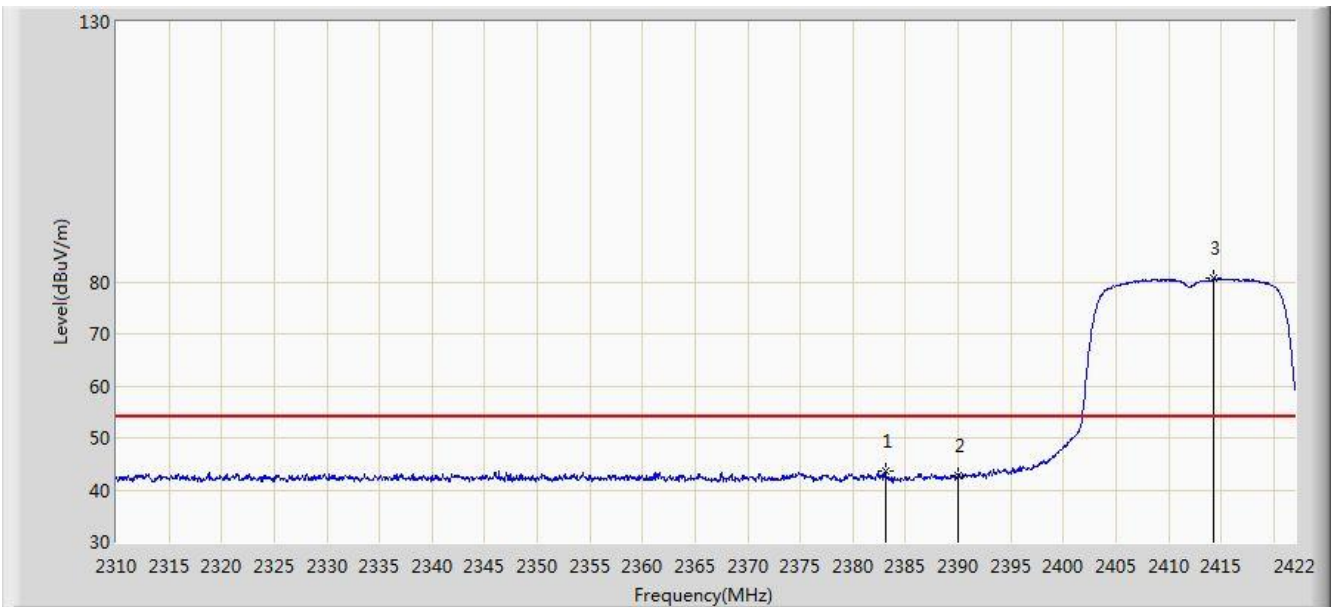


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2371.880	61.591	29.237	-12.409	74.000	32.354	PK
2			2390.000	59.283	26.956	-14.717	74.000	32.327	PK
3		*	2415.336	91.414	59.131	N/A	N/A	32.283	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 01:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz, Ant 0	

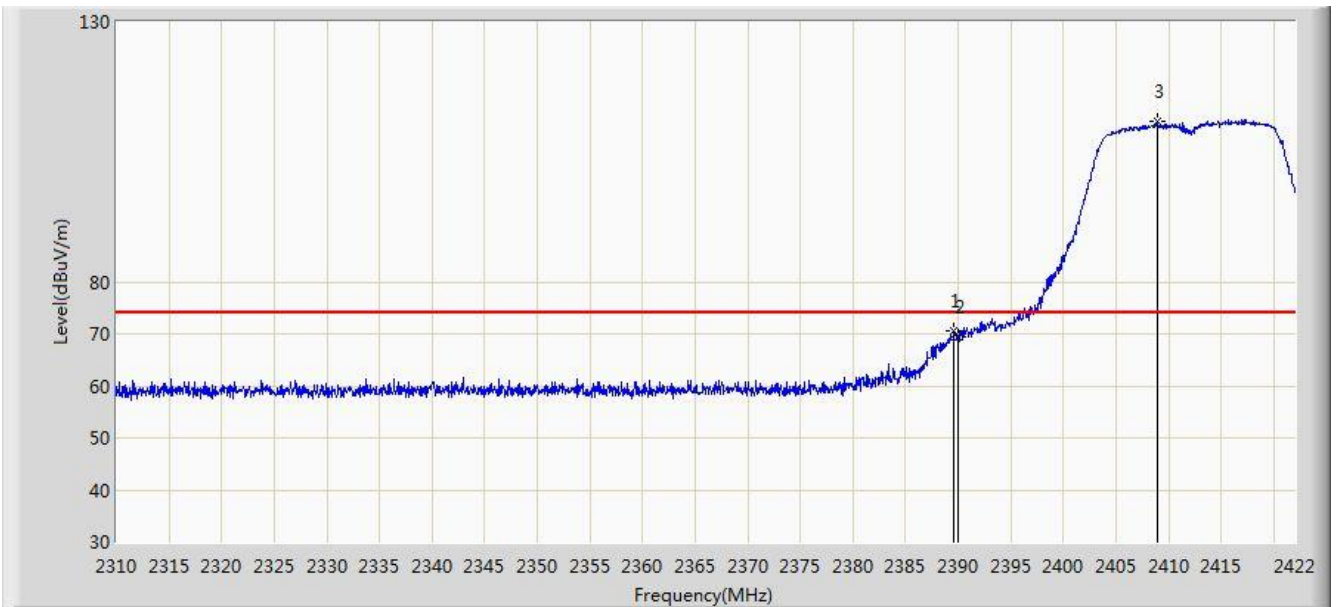


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2383.136	43.550	11.214	-10.450	54.000	32.337	AV
2			2390.000	42.746	10.419	-11.254	54.000	32.327	AV
3		*	2414.328	80.682	48.398	N/A	N/A	32.283	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 01:34
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz, Ant 0	

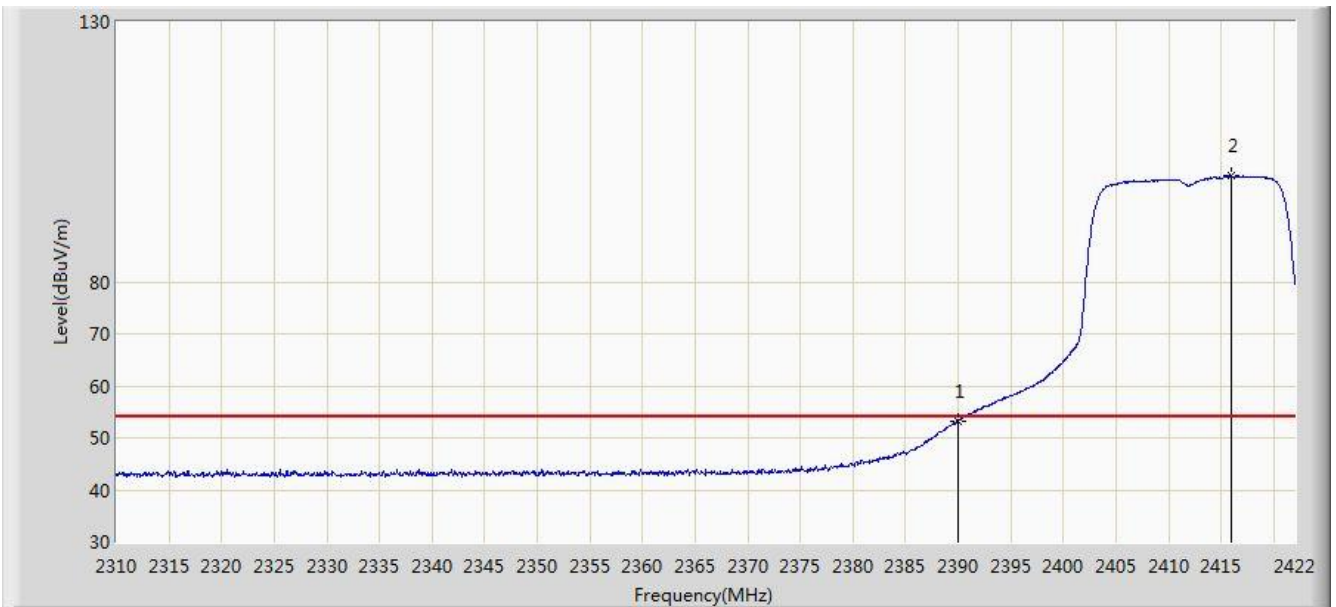


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.632	70.519	38.192	-3.481	74.000	32.328	PK
2			2390.000	69.414	37.087	-4.586	74.000	32.327	PK
3		*	2408.896	110.847	78.557	N/A	N/A	32.289	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 01:32
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz, Ant 0	

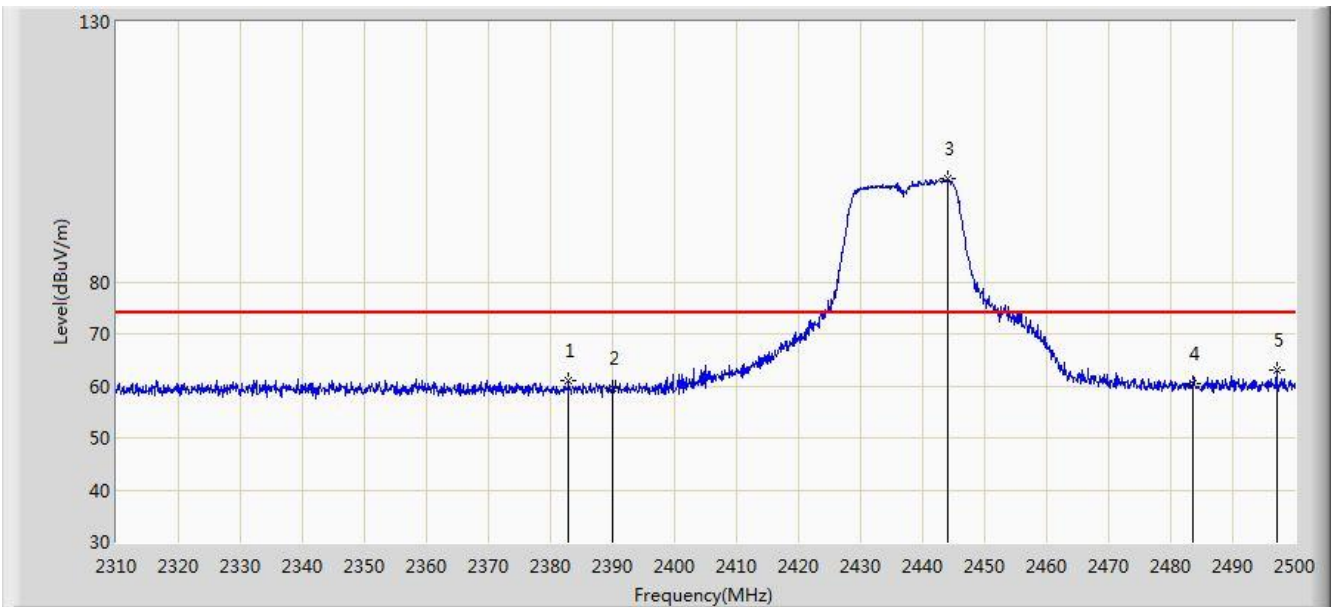


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	53.322	20.995	-0.678	54.000	32.327	AV
2		*	2415.896	100.366	68.083	N/A	N/A	32.284	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/27 - 05:20
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2437MHz, Ant 0	

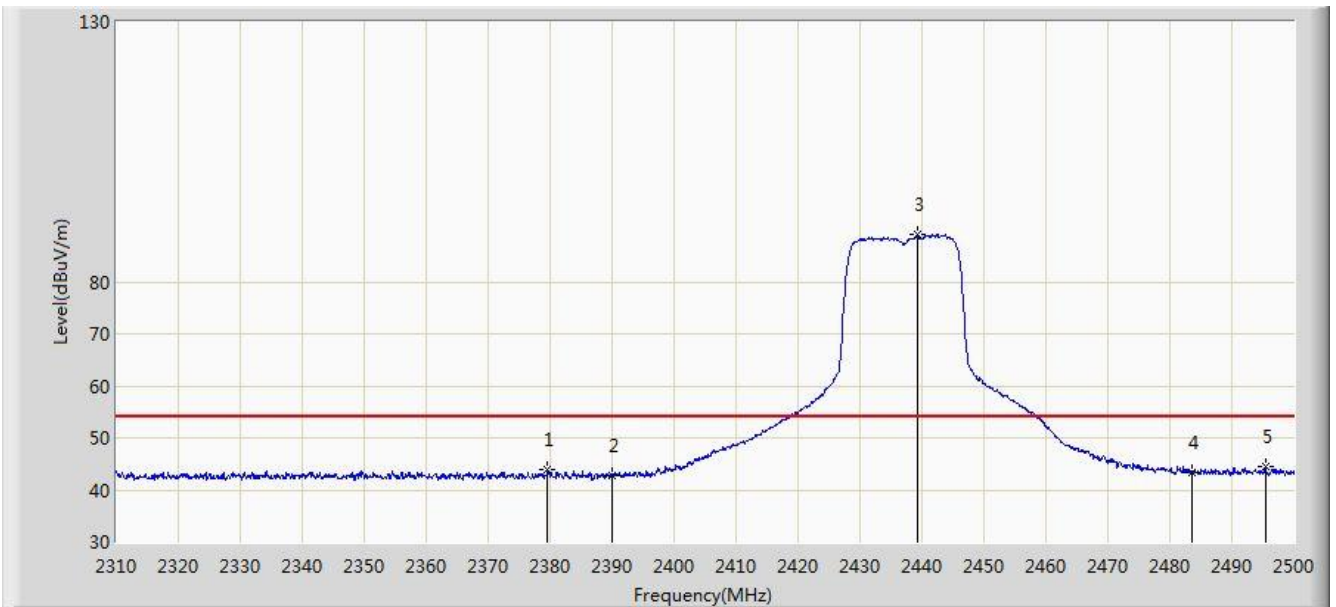


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2382.865	60.920	28.583	-13.080	74.000	32.336	PK
2			2390.000	59.467	27.140	-14.533	74.000	32.327	PK
3		*	2443.950	99.882	67.631	N/A	N/A	32.251	PK
4			2483.500	60.359	28.020	-13.641	74.000	32.340	PK
5			2497.055	63.025	30.635	-10.975	74.000	32.390	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/27 - 05:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2437MHz, Ant 0	

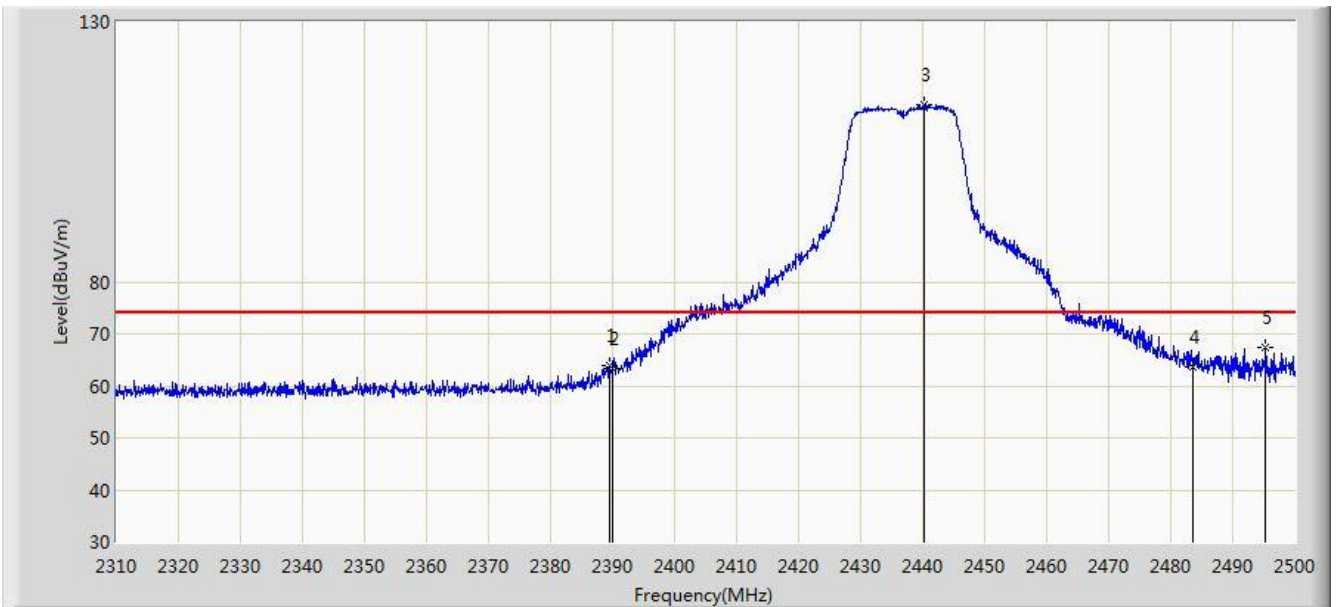


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2379.635	43.894	11.553	-10.106	54.000	32.341	AV
2			2390.000	42.621	10.294	-11.379	54.000	32.327	AV
3		*	2439.390	89.054	56.795	N/A	N/A	32.259	AV
4			2483.500	43.281	10.942	-10.719	54.000	32.340	AV
5			2495.440	44.432	12.046	-9.568	54.000	32.386	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/27 - 05:18
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2437MHz, Ant 0	

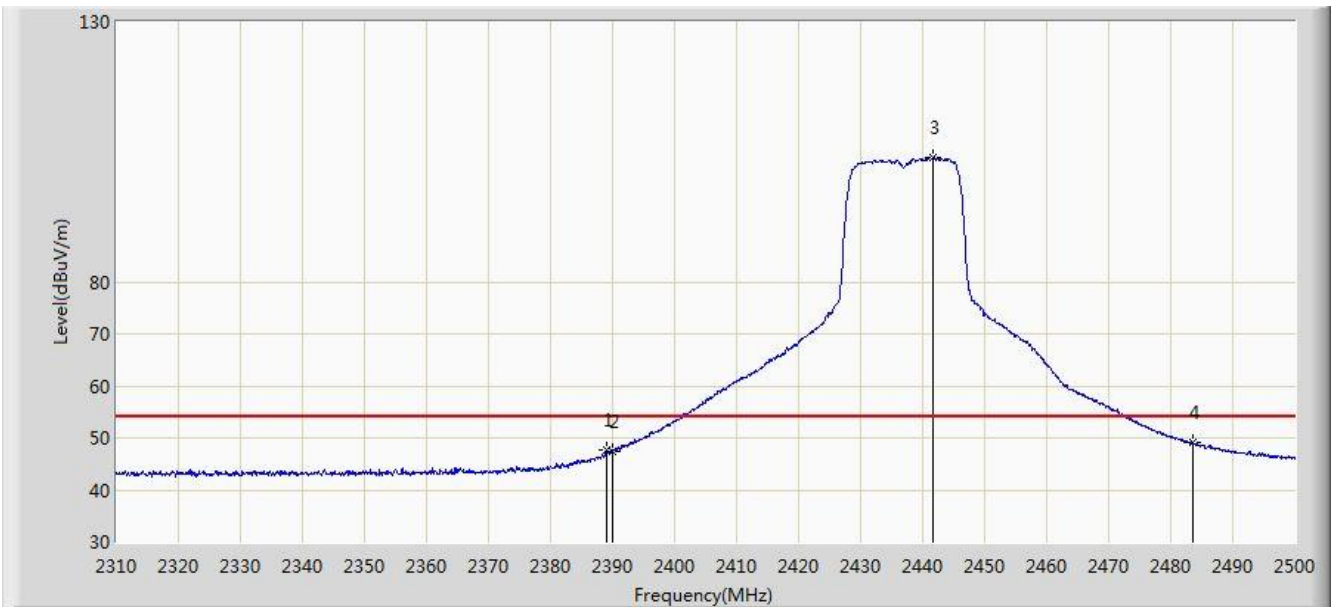


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.420	64.040	31.712	-9.960	74.000	32.327	PK
2			2390.000	63.275	30.948	-10.725	74.000	32.327	PK
3		*	2440.340	114.078	81.821	N/A	N/A	32.257	PK
4			2483.500	63.546	31.207	-10.454	74.000	32.340	PK
5			2495.345	67.460	35.074	-6.540	74.000	32.386	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/27 - 05:14
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2437MHz, Ant 0	

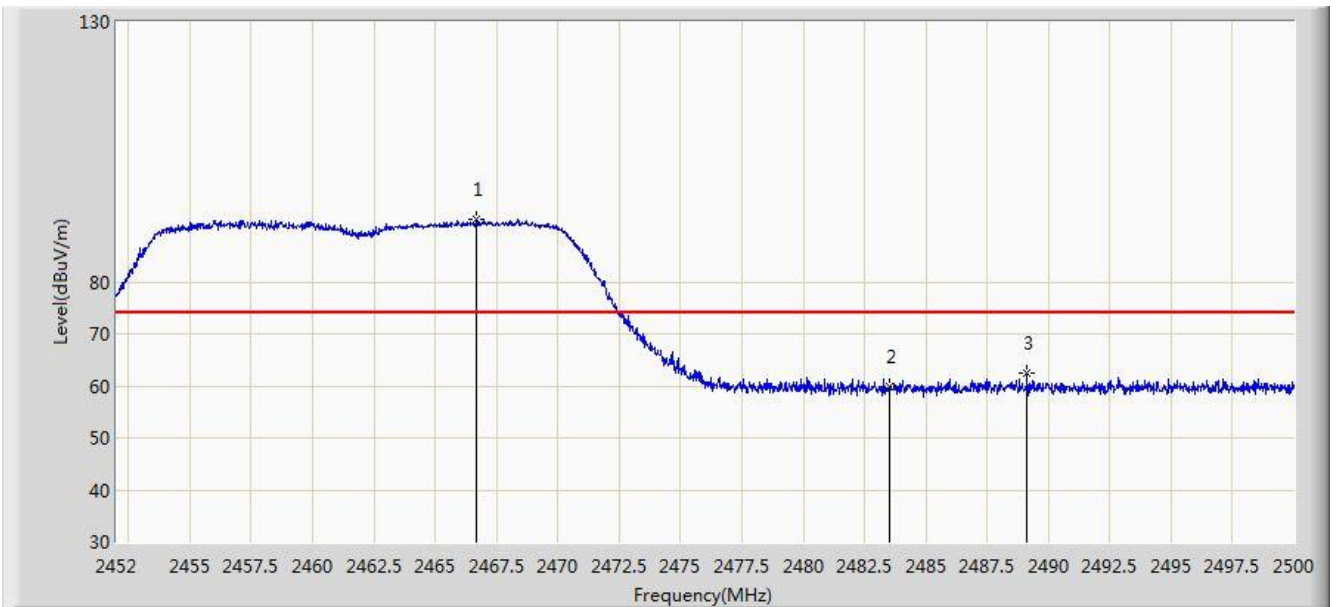


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.040	47.630	15.302	-6.370	54.000	32.328	AV
2			2390.000	47.391	15.064	-6.609	54.000	32.327	AV
3		*	2441.765	103.883	71.628	N/A	N/A	32.256	AV
4			2483.500	49.166	16.827	-4.834	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 01:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz, Ant 0	

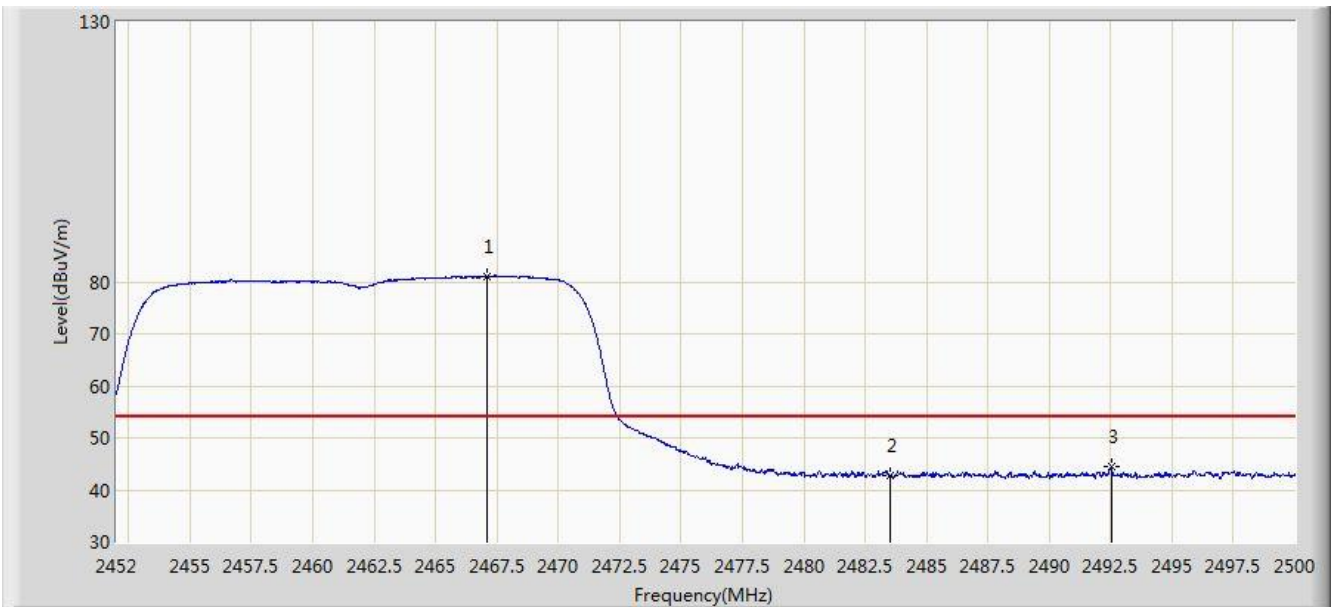


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2466.688	92.083	59.792	N/A	N/A	32.290	PK
2			2483.500	59.789	27.450	-14.211	74.000	32.340	PK
3			2489.128	62.496	30.135	-11.504	74.000	32.361	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 01:52
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz, Ant 0	

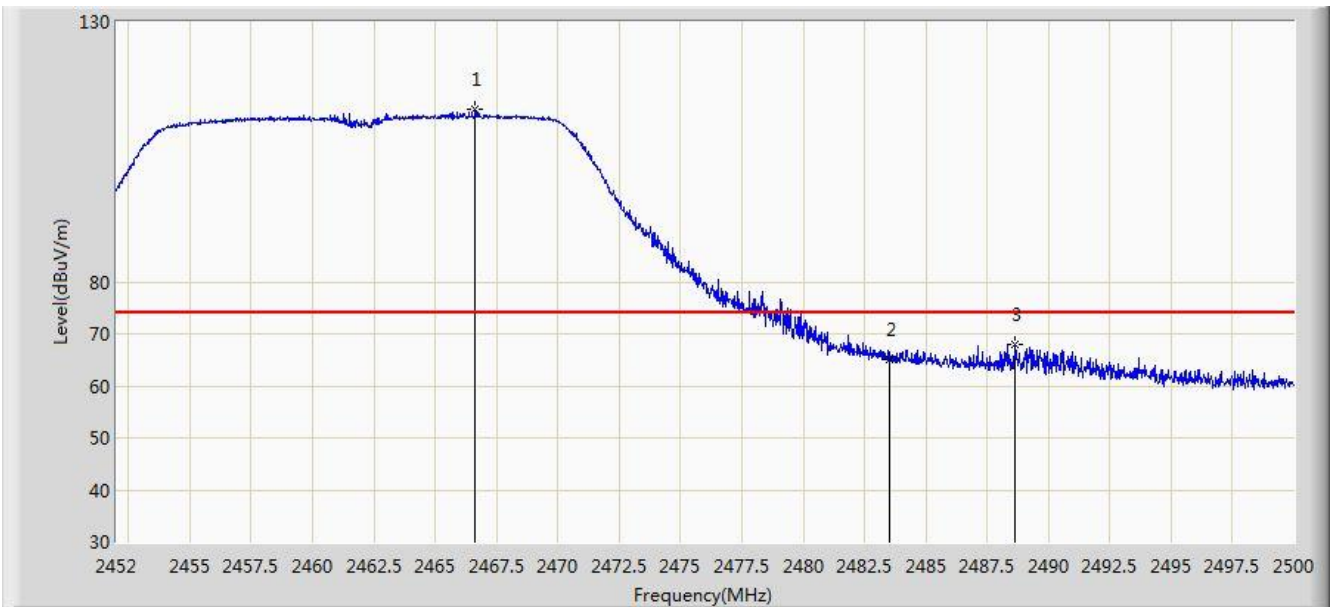


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2467.096	81.016	48.724	N/A	N/A	32.292	AV
2			2483.500	42.765	10.426	-11.235	54.000	32.340	AV
3			2492.512	44.348	11.973	-9.652	54.000	32.375	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 01:46
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz, Ant 0	

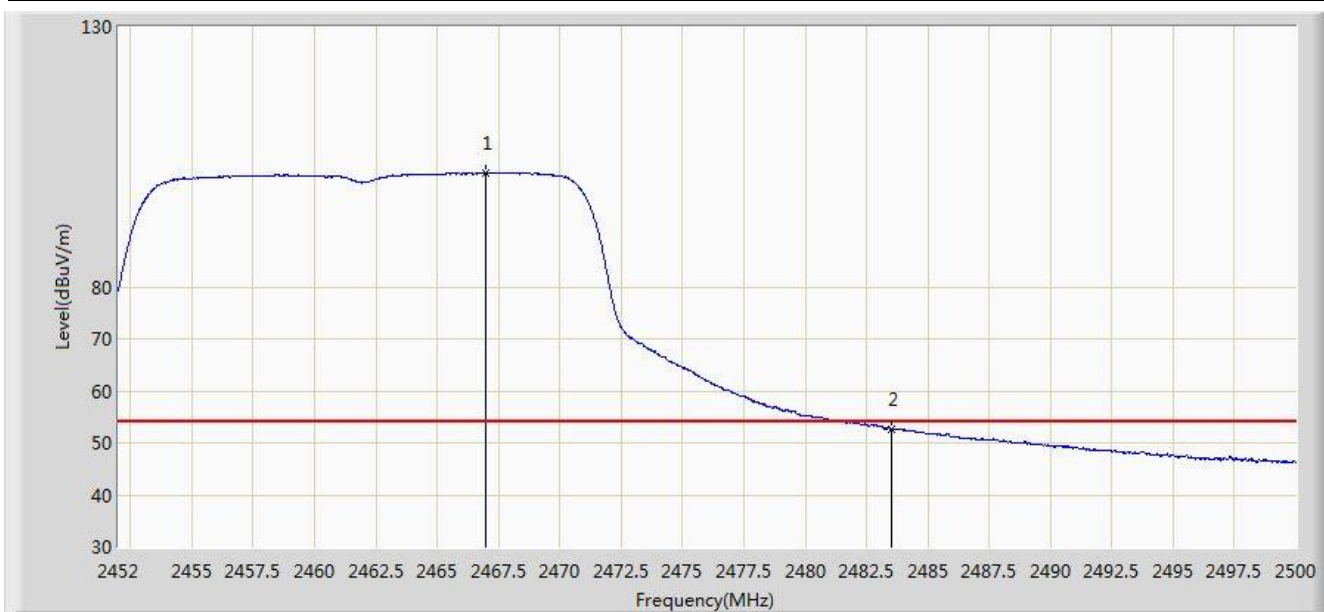


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2466.616	113.187	80.897	N/A	N/A	32.290	PK
2			2483.500	65.066	32.727	-8.934	74.000	32.340	PK
3			2488.624	68.076	35.717	-5.924	74.000	32.359	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 01:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz, Ant 0	

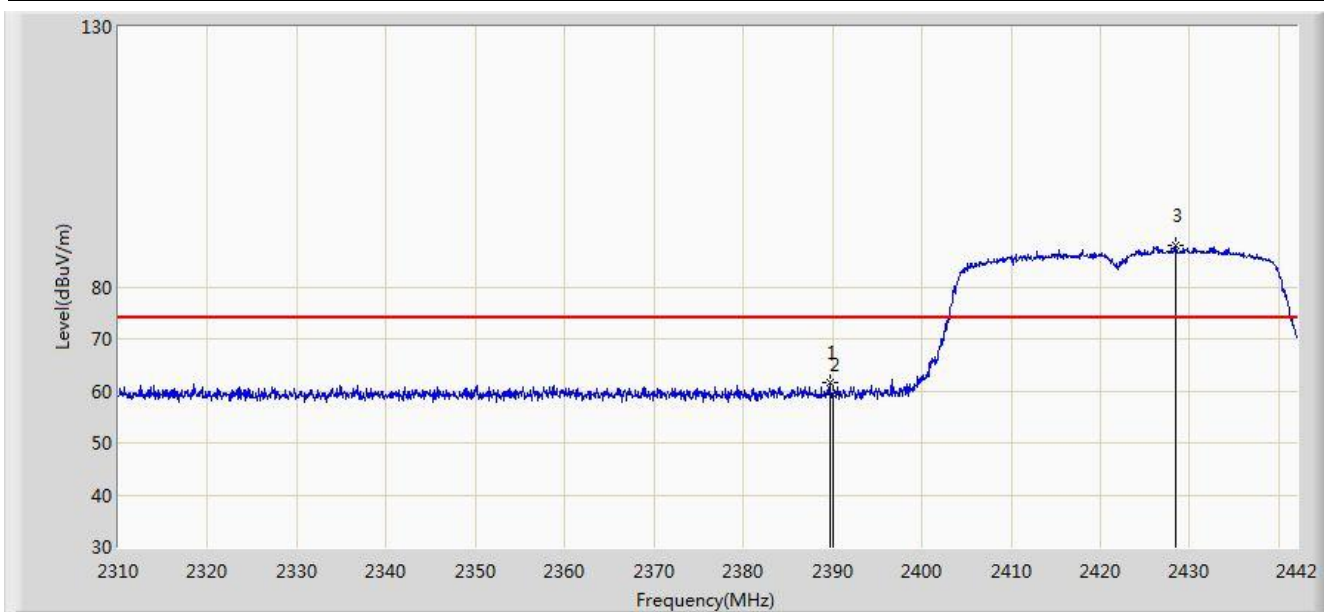


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1		*	2467.000	102.023	69.732	N/A	N/A	32.292	AV
2			2483.500	52.730	20.391	-1.270	54.000	32.340	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 02:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz, Ant 0	

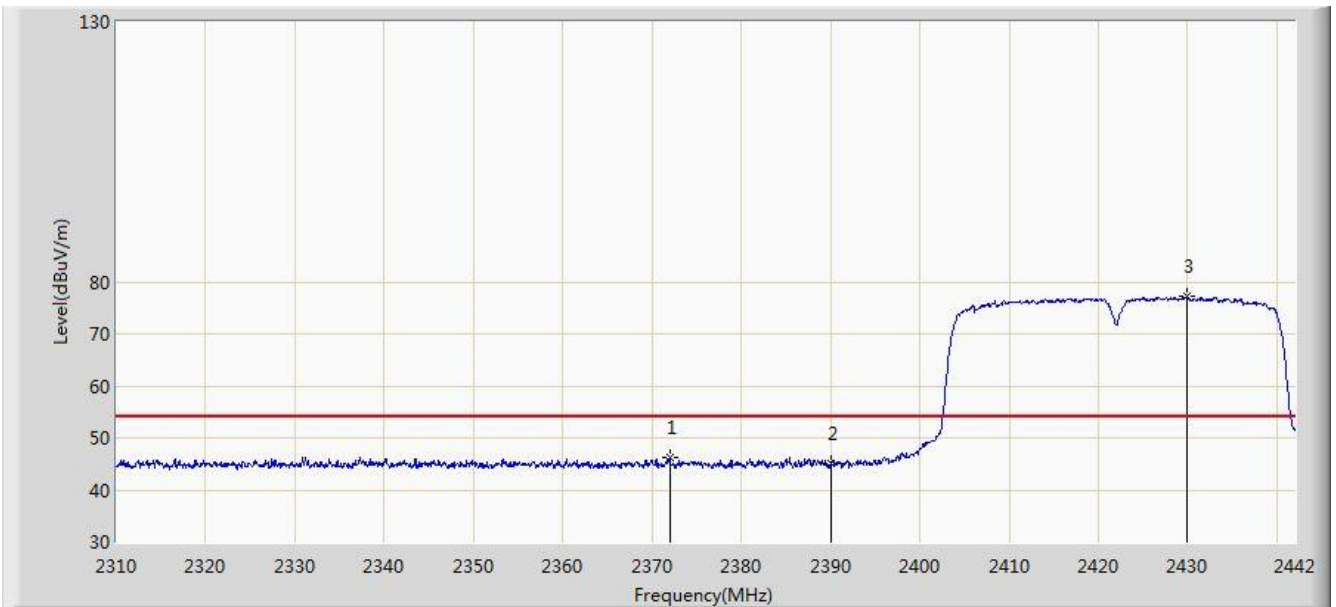


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.662	61.514	29.187	-12.486	74.000	32.328	PK
2			2390.000	59.331	27.004	-14.669	74.000	32.327	PK
3		*	2428.470	87.953	55.676	N/A	N/A	32.277	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 02:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz, Ant 0	

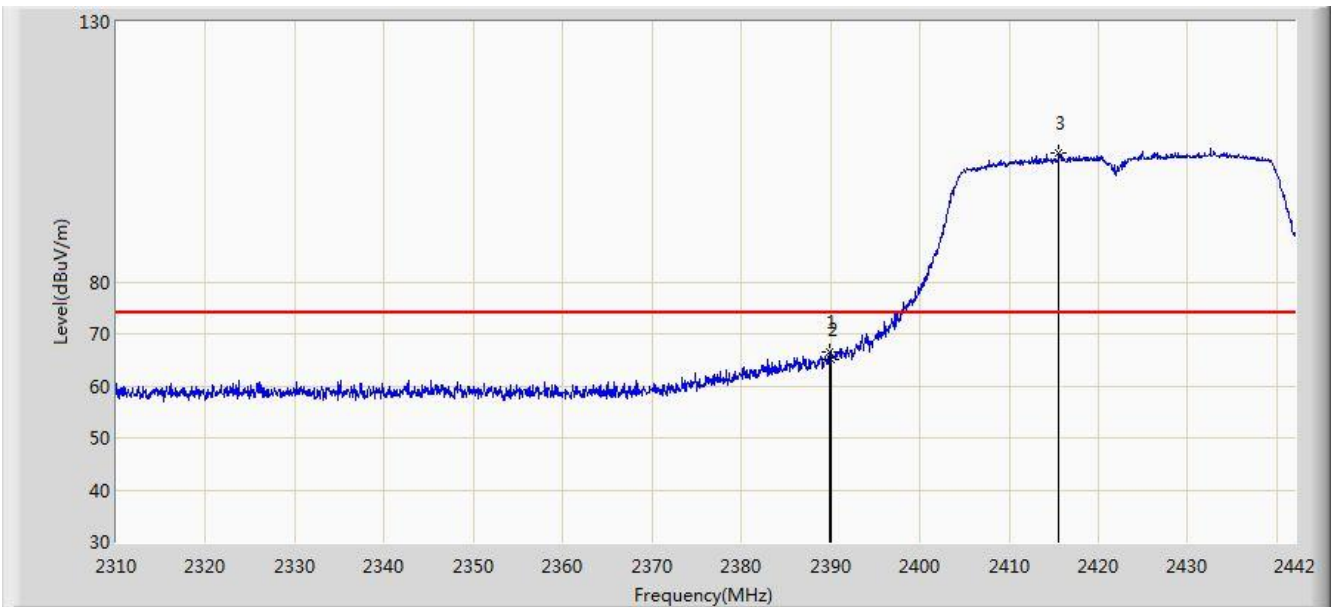


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2371.974	46.355	14.001	-7.645	54.000	32.354	AV
2			2390.000	45.150	12.823	-8.850	54.000	32.327	AV
3		*	2429.856	77.117	44.842	N/A	N/A	32.274	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 02:11
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz, Ant 0	

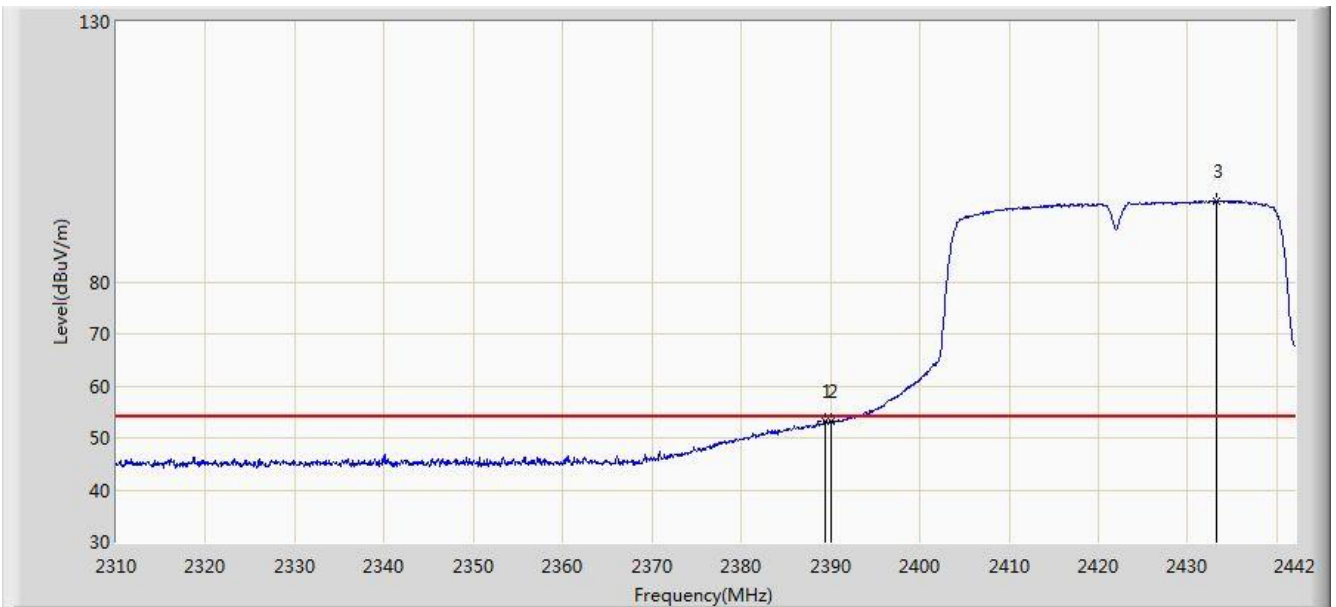


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.860	66.406	34.079	-7.594	74.000	32.327	PK
2			2390.000	64.937	32.610	-9.063	74.000	32.327	PK
3		*	2415.600	104.711	72.428	N/A	N/A	32.283	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 02:10
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz, Ant 0	

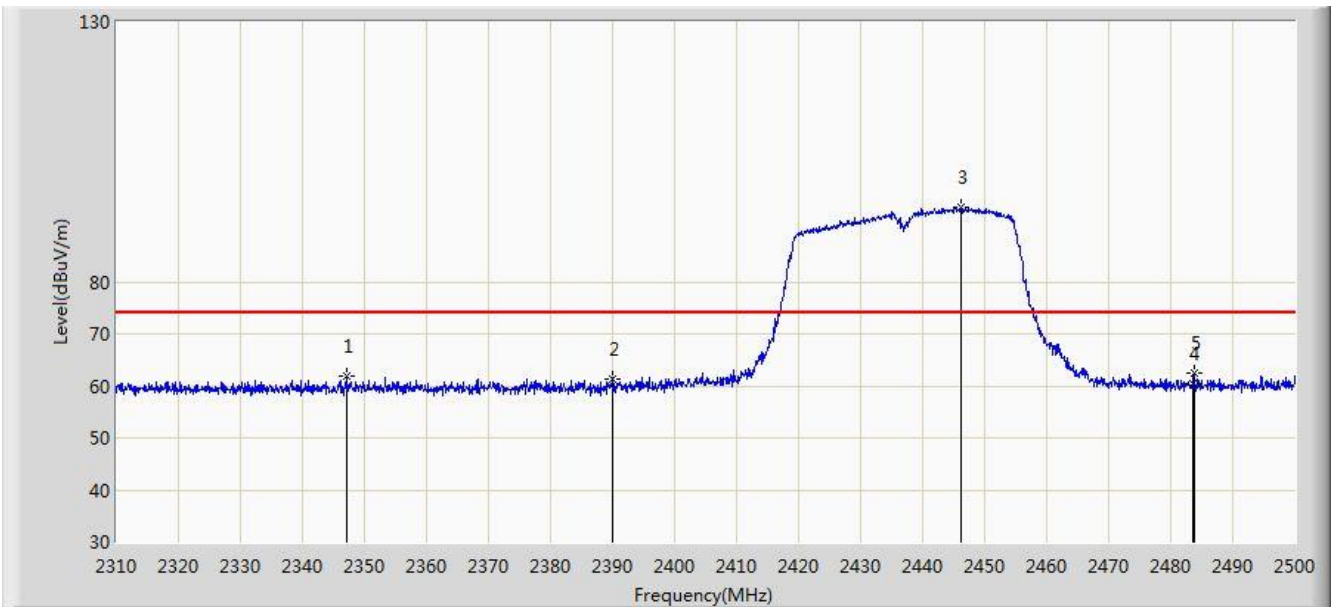


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.398	53.318	20.990	-0.682	54.000	32.327	AV
2			2390.000	53.160	20.833	-0.840	54.000	32.327	AV
3		*	2433.156	95.549	63.280	N/A	N/A	32.269	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/27 - 05:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT40 at Channel 2437MHz, Ant 0	

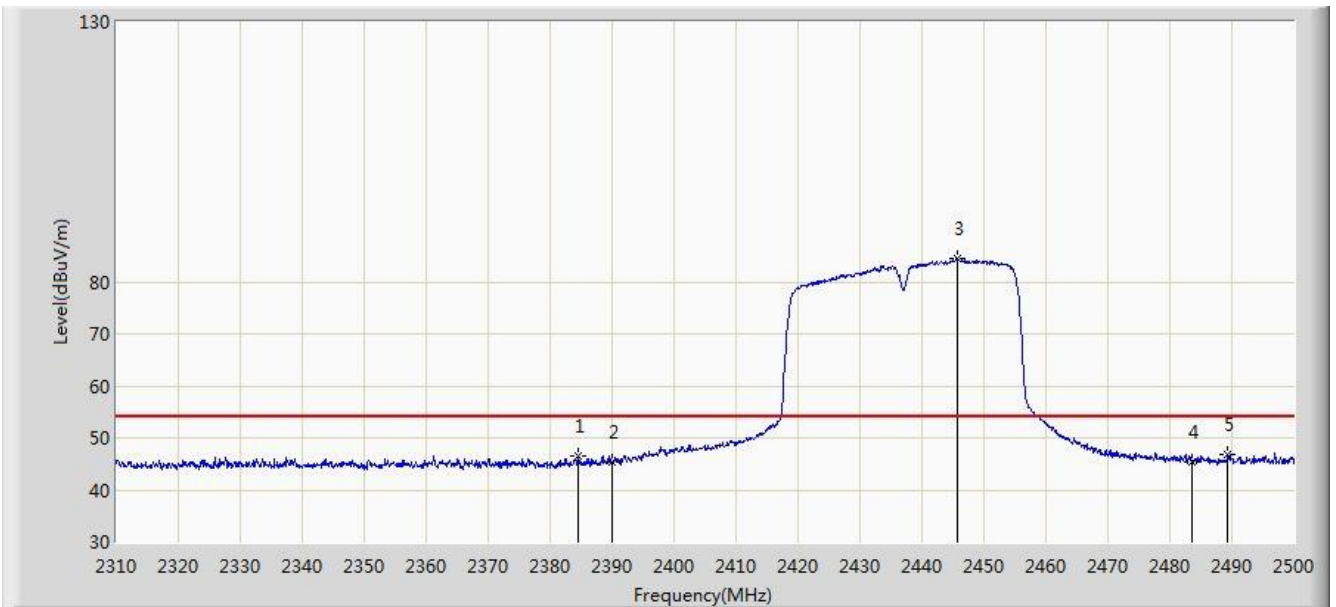


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2347.050	61.995	29.586	-12.005	74.000	32.409	PK
2			2390.000	61.261	28.934	-12.739	74.000	32.327	PK
3		*	2446.230	94.203	61.955	N/A	N/A	32.248	PK
4			2483.500	60.517	28.178	-13.483	74.000	32.340	PK
5			2483.755	62.561	30.221	-11.439	74.000	32.340	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/27 - 05:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT40 at Channel 2437MHz, Ant 0	

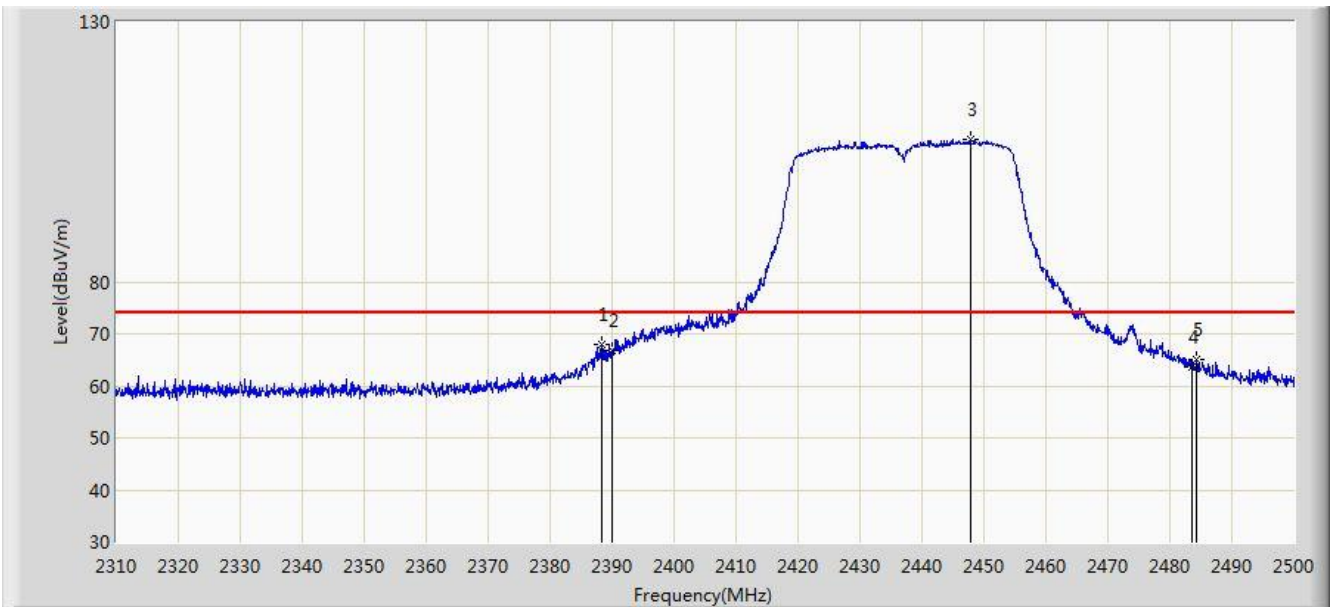


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2384.480	46.497	14.163	-7.503	54.000	32.334	AV
2			2390.000	45.367	13.040	-8.633	54.000	32.327	AV
3		*	2445.660	84.436	52.187	N/A	N/A	32.249	AV
4			2483.500	45.312	12.973	-8.688	54.000	32.340	AV
5			2489.360	46.696	14.334	-7.304	54.000	32.362	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/27 - 05:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT40 at Channel 2437MHz, Ant 0	

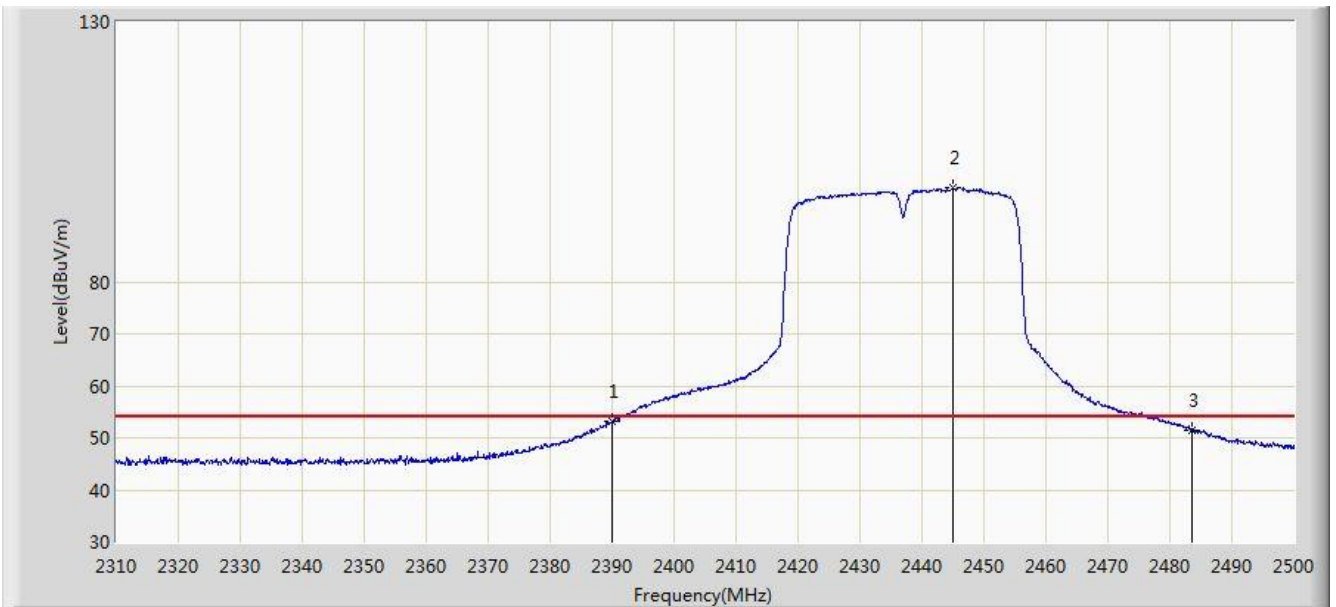


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.375	67.854	35.525	-6.146	74.000	32.329	PK
2			2390.000	66.700	34.373	-7.300	74.000	32.327	PK
3		*	2447.845	107.517	75.265	N/A	N/A	32.252	PK
4			2483.500	63.595	31.256	-10.405	74.000	32.340	PK
5			2484.325	65.059	32.717	-8.941	74.000	32.342	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/27 - 05:29
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT40 at Channel 2437MHz, Ant 0	

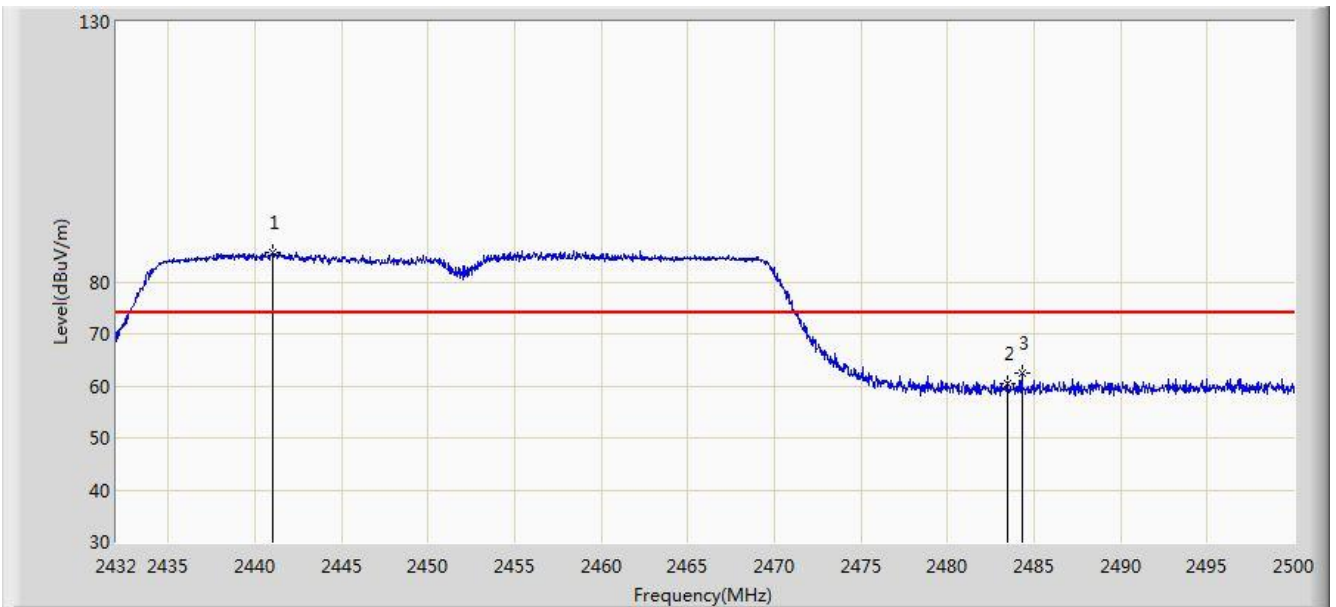


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	53.095	20.768	-0.905	54.000	32.327	AV
2		*	2444.900	97.999	65.749	N/A	N/A	32.250	AV
3			2483.500	51.457	19.118	-2.543	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 02:29
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz, Ant 0	

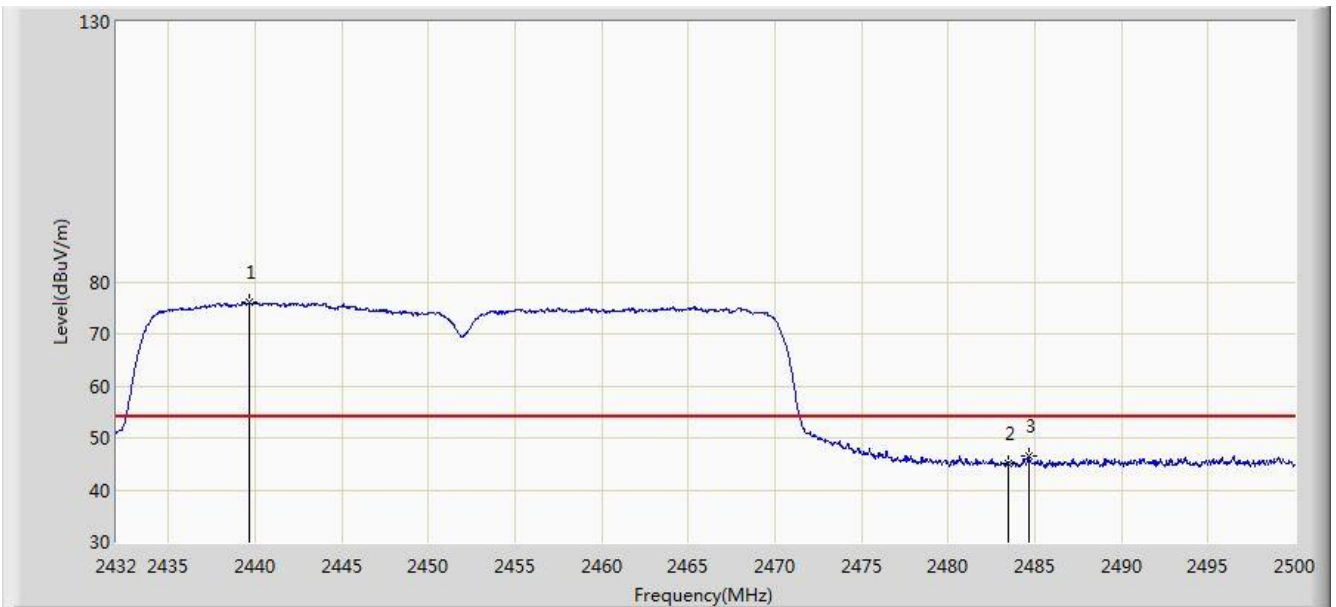


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2441.044	85.541	53.285	N/A	N/A	32.256	PK
2			2483.500	60.368	28.029	-13.632	74.000	32.340	PK
3			2484.292	62.507	30.165	-11.493	74.000	32.342	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 02:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz, Ant 0	

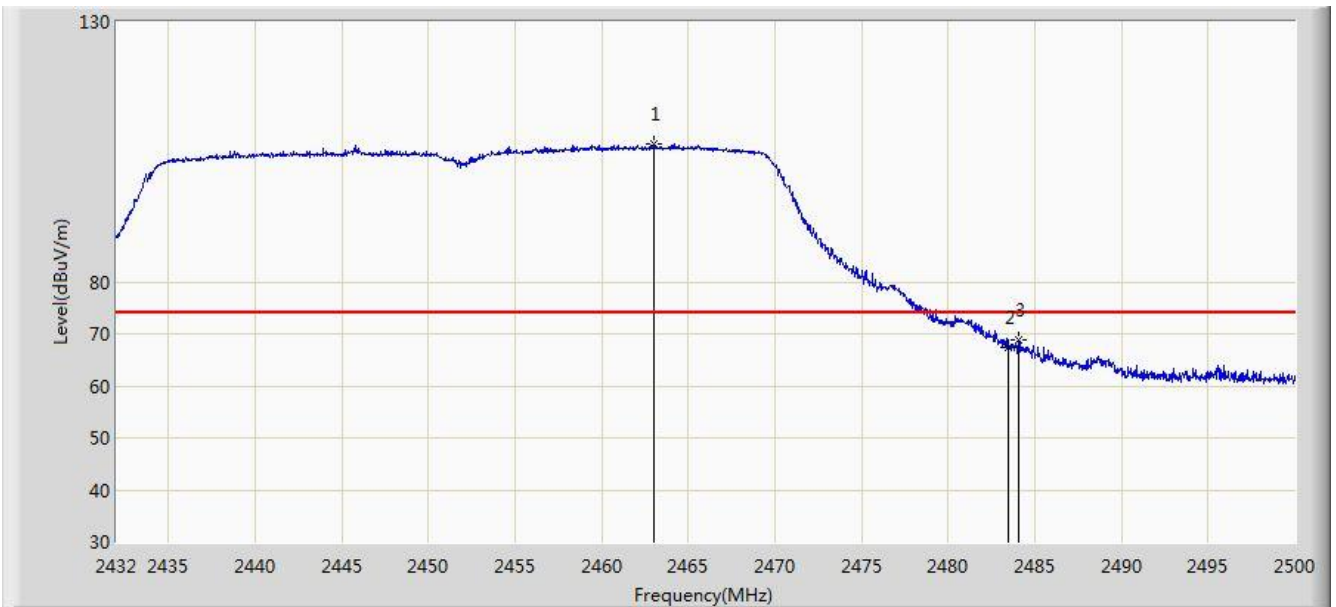


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2439.684	76.078	43.819	N/A	N/A	32.259	AV
2			2483.500	45.160	12.821	-8.840	54.000	32.340	AV
3			2484.632	46.478	14.134	-7.522	54.000	32.344	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 02:26
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz, Ant 0	

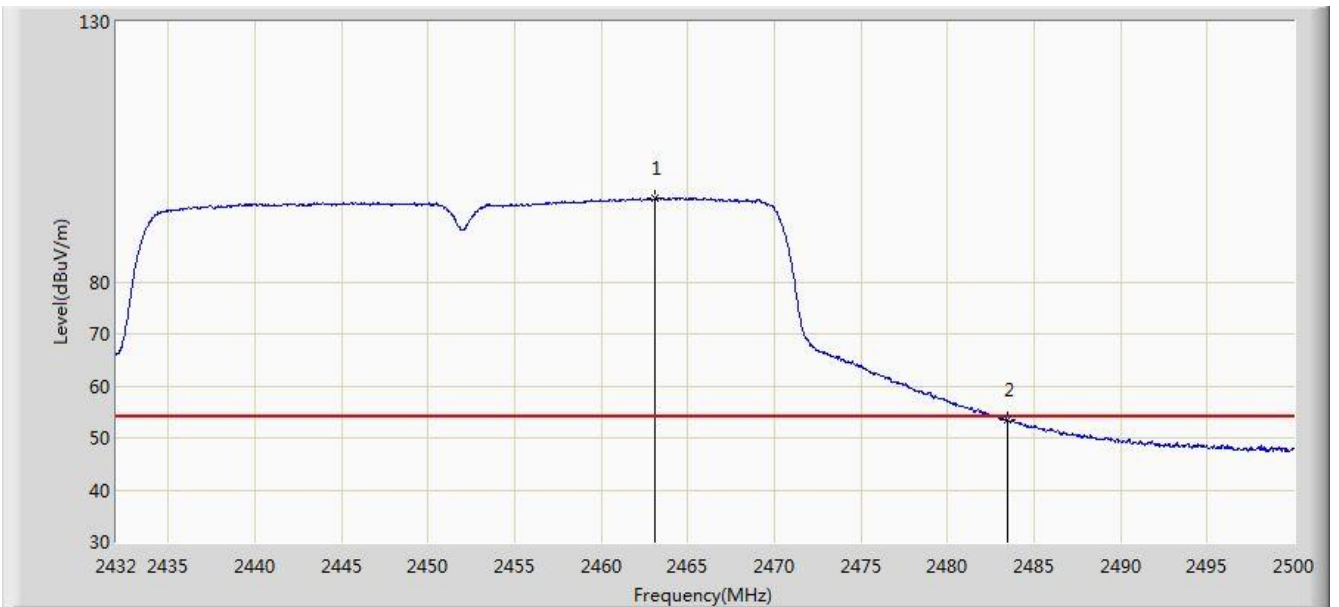


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.042	106.592	74.310	N/A	N/A	32.282	PK
2			2483.500	67.514	35.175	-6.486	74.000	32.340	PK
3			2484.088	68.782	36.441	-5.218	74.000	32.342	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 02:25
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz, Ant 0	

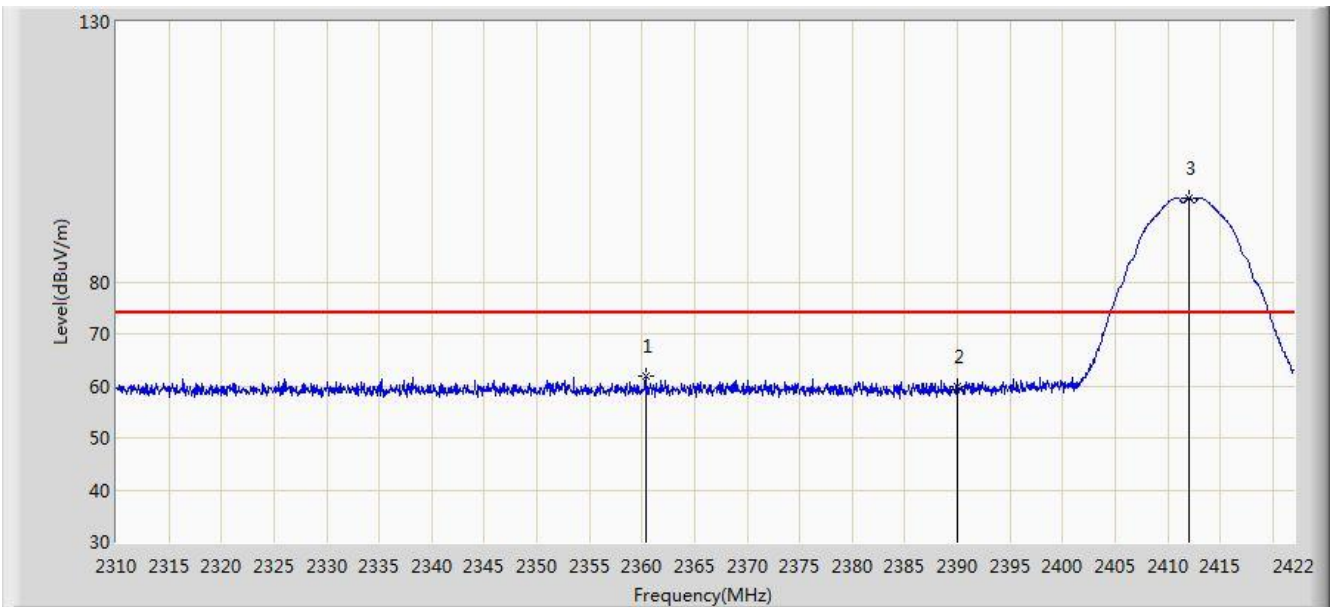


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.144	96.077	63.795	N/A	N/A	32.282	AV
2			2483.500	53.462	21.123	-0.538	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 02:40
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11b at Channel 2412MHz, Ant 1	

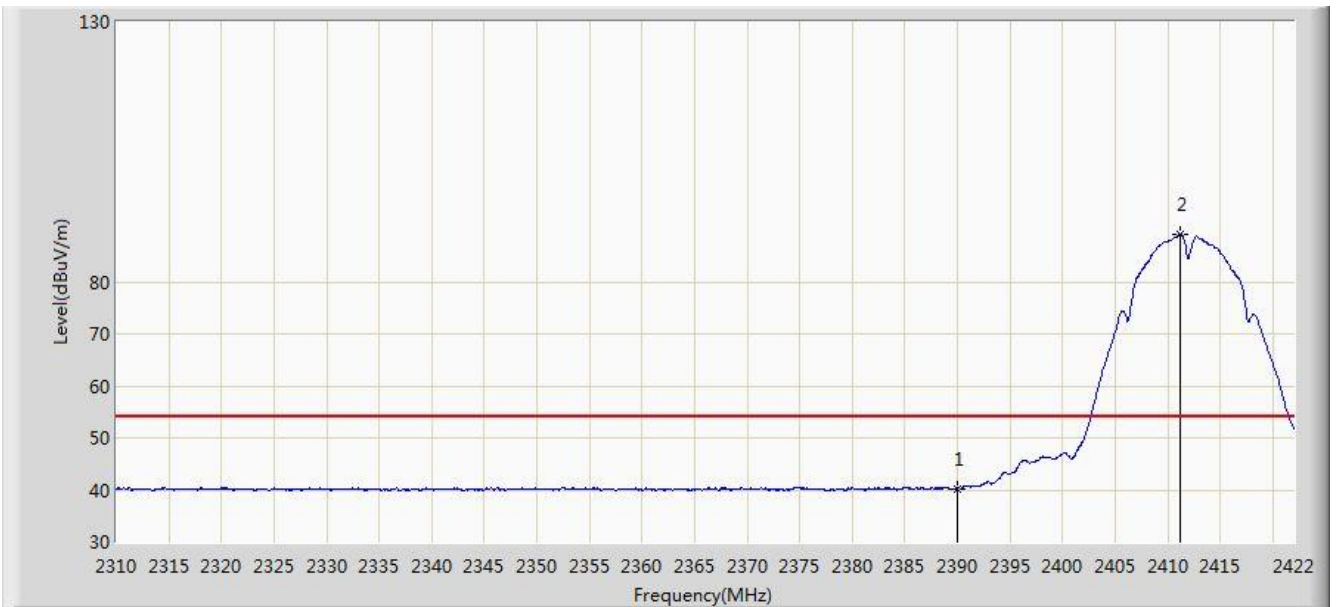


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2360.344	61.750	29.374	-12.250	74.000	32.376	PK
2			2390.000	59.966	27.639	-14.034	74.000	32.327	PK
3		*	2412.032	96.184	63.899	N/A	N/A	32.285	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 02:43
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11b at Channel 2412MHz, Ant 1	

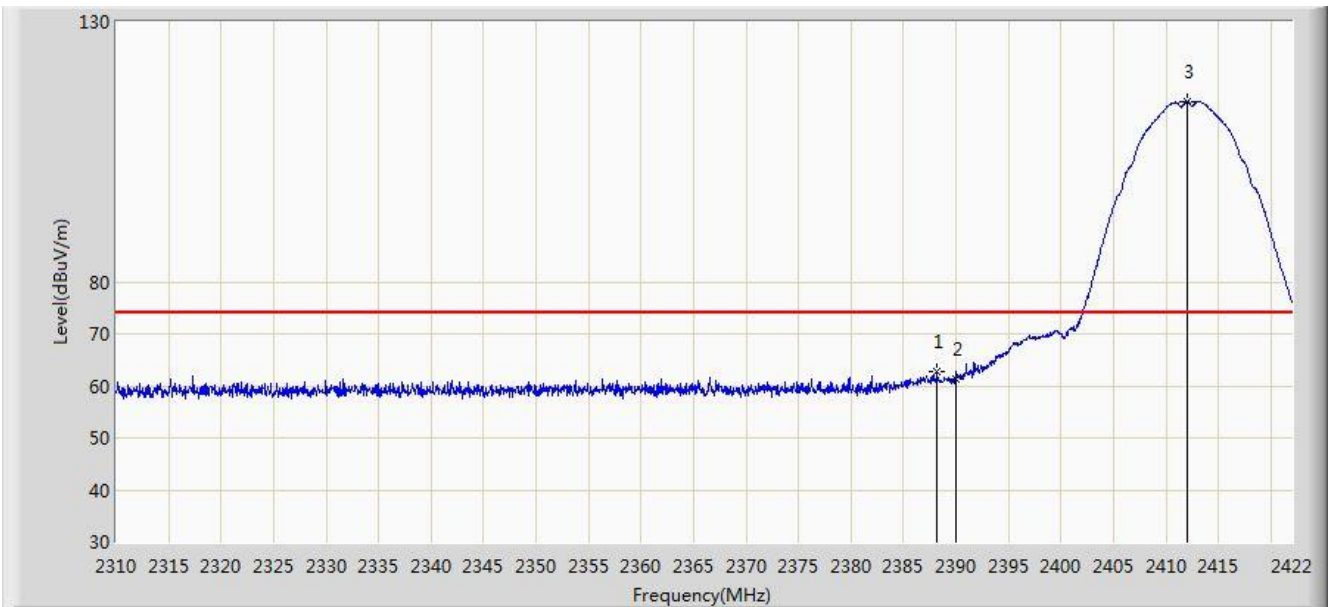


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	40.287	7.960	-13.713	54.000	32.327	AV
2		*	2411.136	89.152	56.867	N/A	N/A	32.285	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 02:39
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11b at Channel 2412MHz, Ant 1	

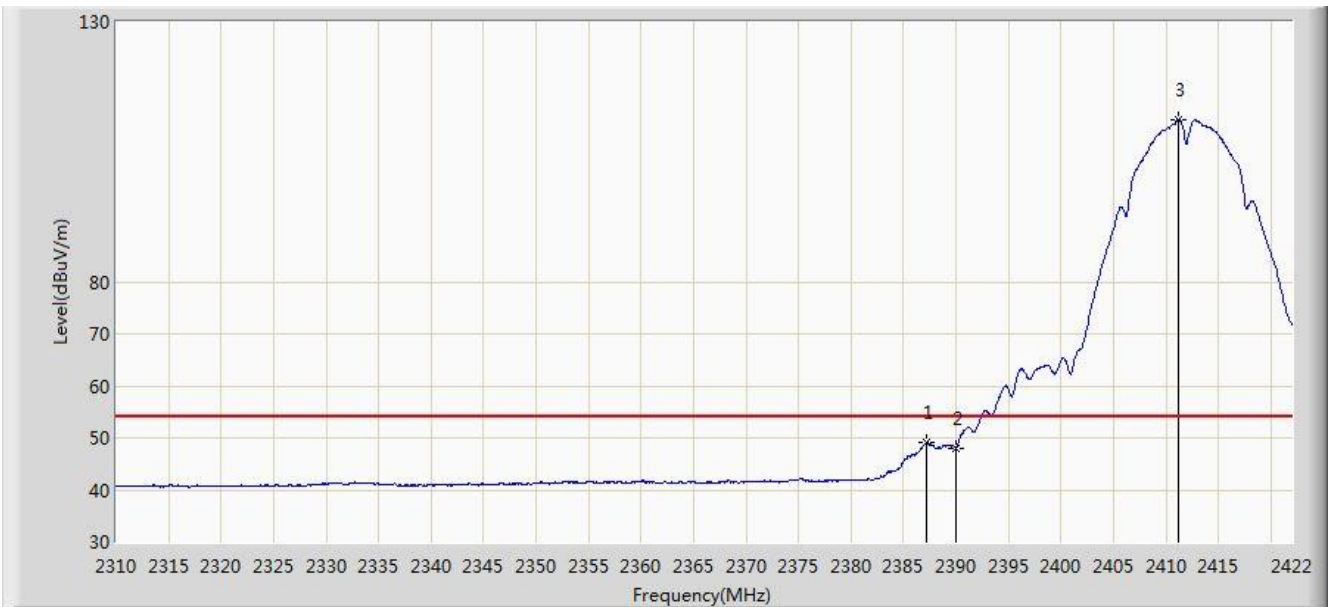


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.232	62.666	30.337	-11.334	74.000	32.329	PK
2			2390.000	61.425	29.098	-12.575	74.000	32.327	PK
3		*	2412.032	114.634	82.349	N/A	N/A	32.285	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 02:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11b at Channel 2412MHz, Ant 1	

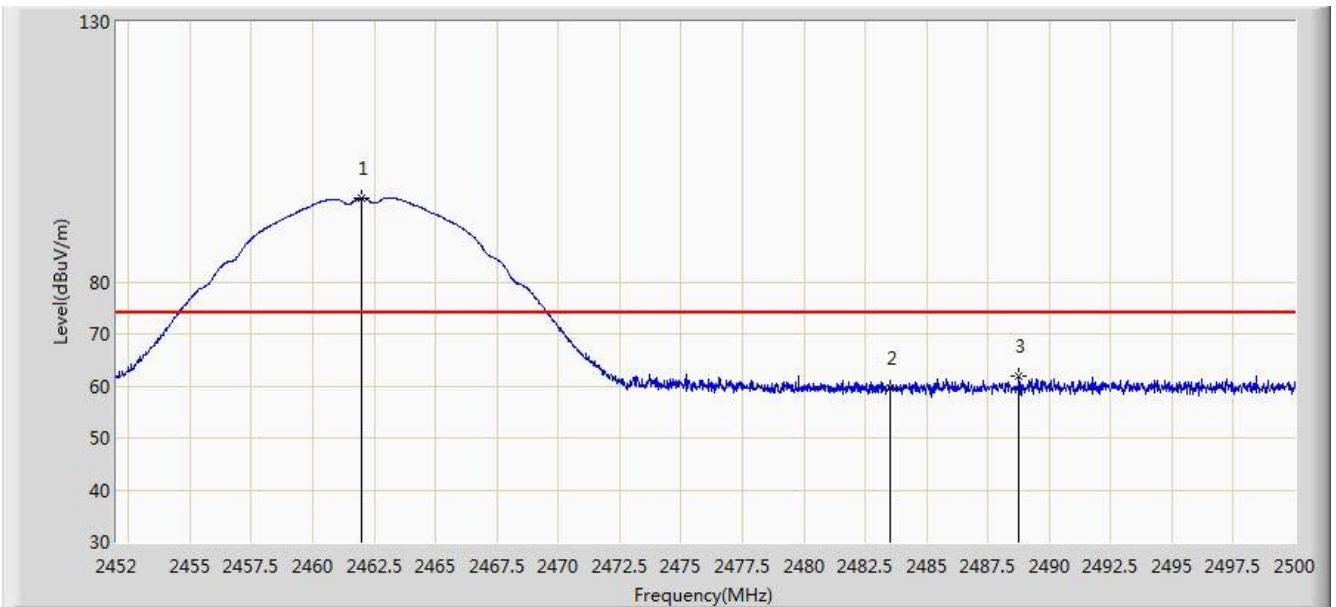


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2387.168	49.018	16.687	-4.982	54.000	32.331	AV
2			2390.000	48.036	15.709	-5.964	54.000	32.327	AV
3		*	2411.136	111.167	78.882	N/A	N/A	32.285	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 02:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11b at Channel 2462MHz, Ant 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.984	96.129	63.849	N/A	N/A	32.280	PK
2			2483.500	59.612	27.273	-14.388	74.000	32.340	PK
3			2488.768	61.889	29.529	-12.111	74.000	32.360	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 02:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11b at Channel 2462MHz, Ant 1	

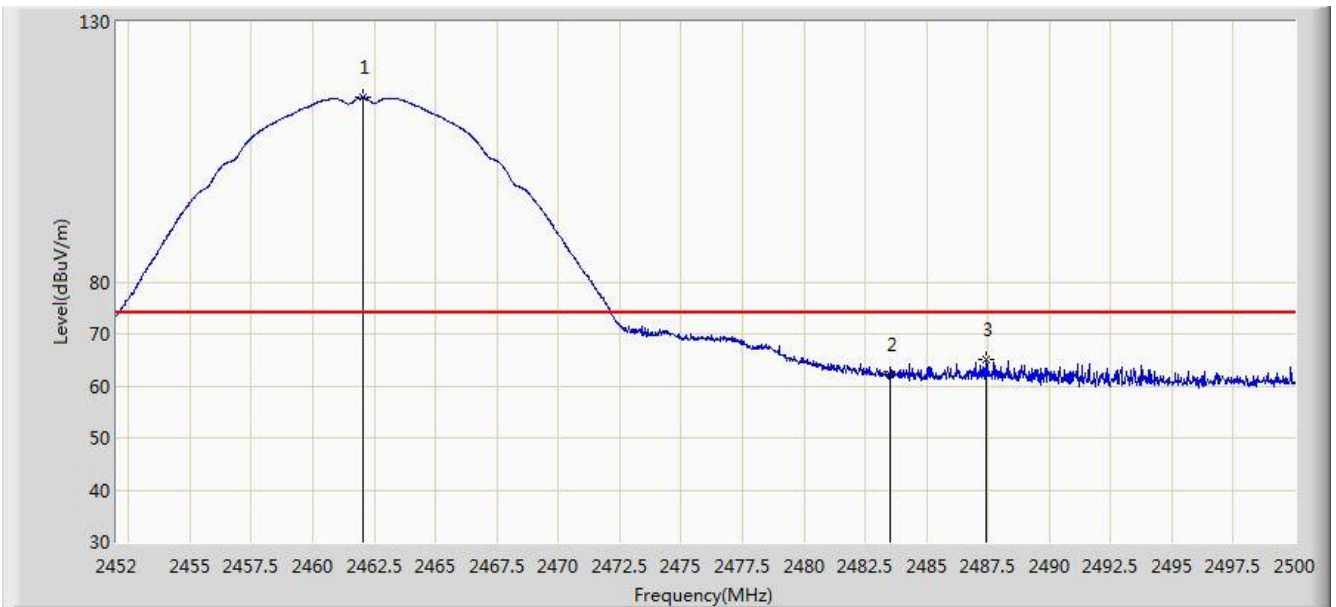


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.192	92.095	59.816	N/A	N/A	32.279	AV
2			2483.500	40.429	8.090	-13.571	54.000	32.340	AV
3			2484.040	40.585	8.244	-13.415	54.000	32.342	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 02:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11b at Channel 2462MHz, Ant 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.056	115.392	83.112	N/A	N/A	32.280	PK
2			2483.500	62.308	29.969	-11.692	74.000	32.340	PK
3			2487.448	65.079	32.724	-8.921	74.000	32.355	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 02:46
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11b at Channel 2462MHz, Ant 1	

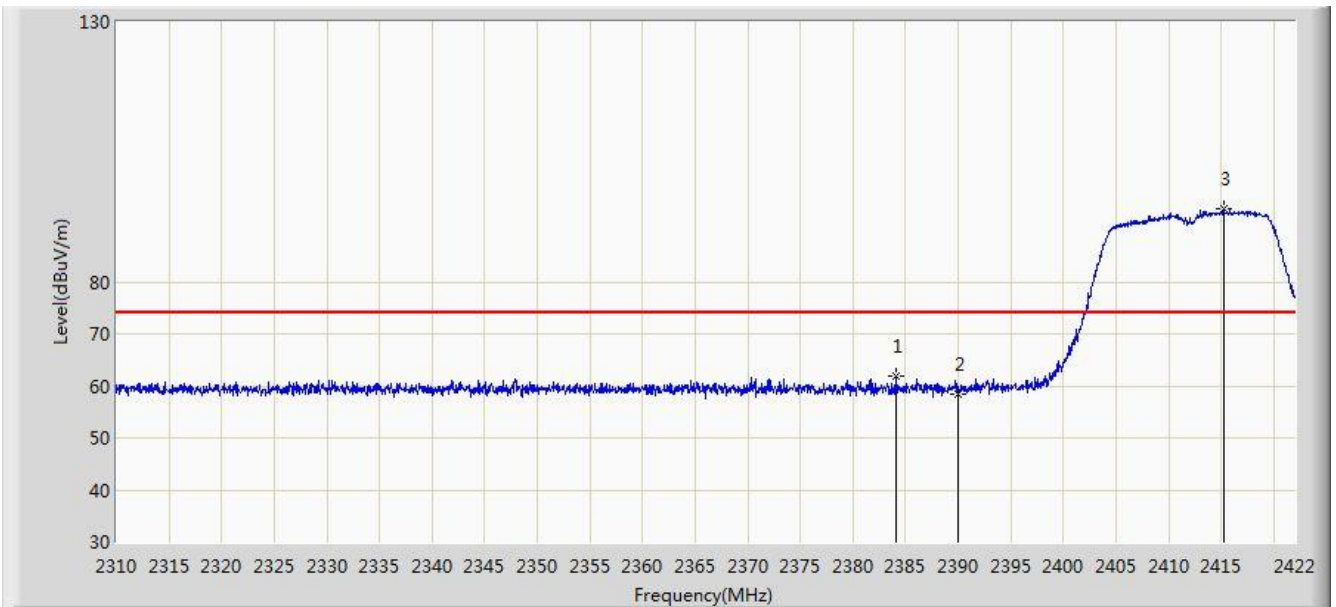


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.168	111.854	79.575	N/A	N/A	32.279	AV
2			2483.500	48.822	16.483	-5.178	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 03:02
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2412MHz, Ant 1	

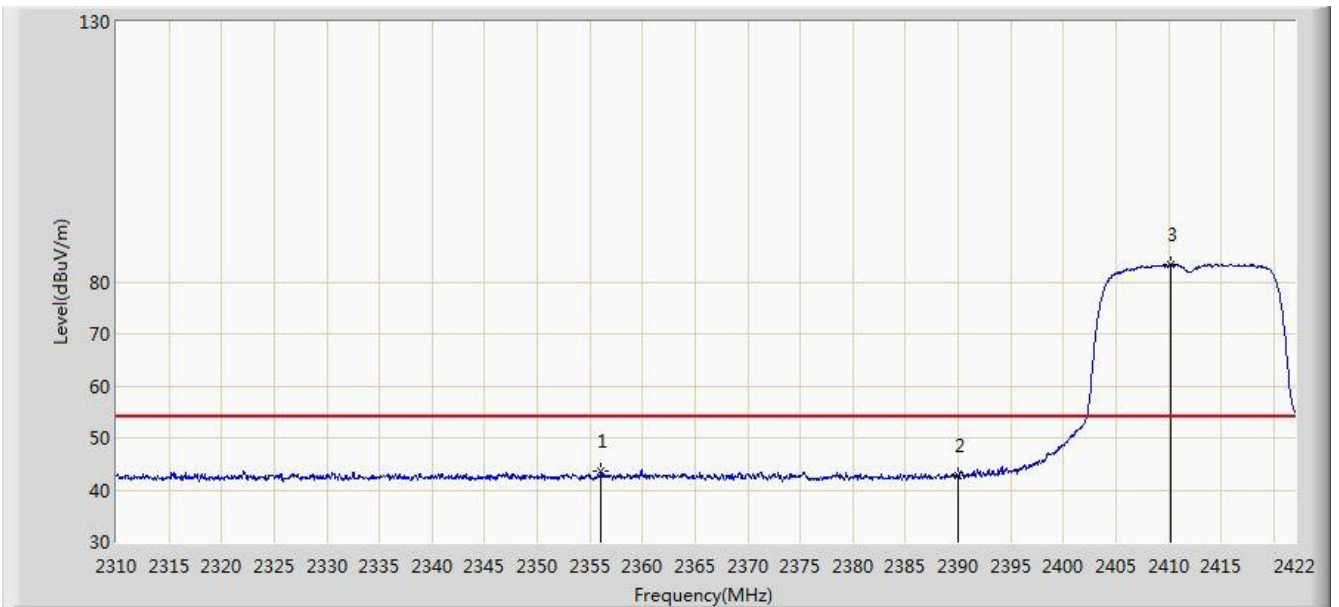


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2384.144	61.745	29.410	-12.255	74.000	32.335	PK
2			2390.000	58.474	26.147	-15.526	74.000	32.327	PK
3		*	2415.224	94.149	61.866	N/A	N/A	32.283	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 03:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2412MHz, Ant 1	

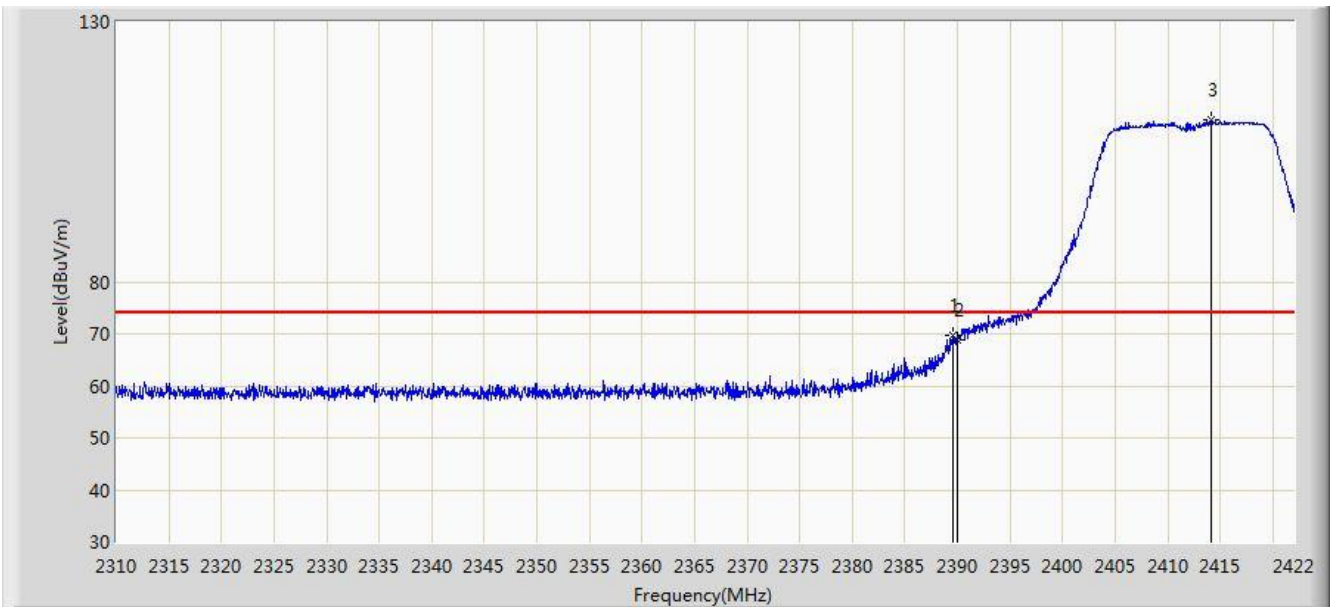


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2356.088	43.557	11.173	-10.443	54.000	32.383	AV
2			2390.000	42.665	10.338	-11.335	54.000	32.327	AV
3		*	2410.240	83.435	51.148	N/A	N/A	32.287	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 03:01
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2412MHz, Ant 1	

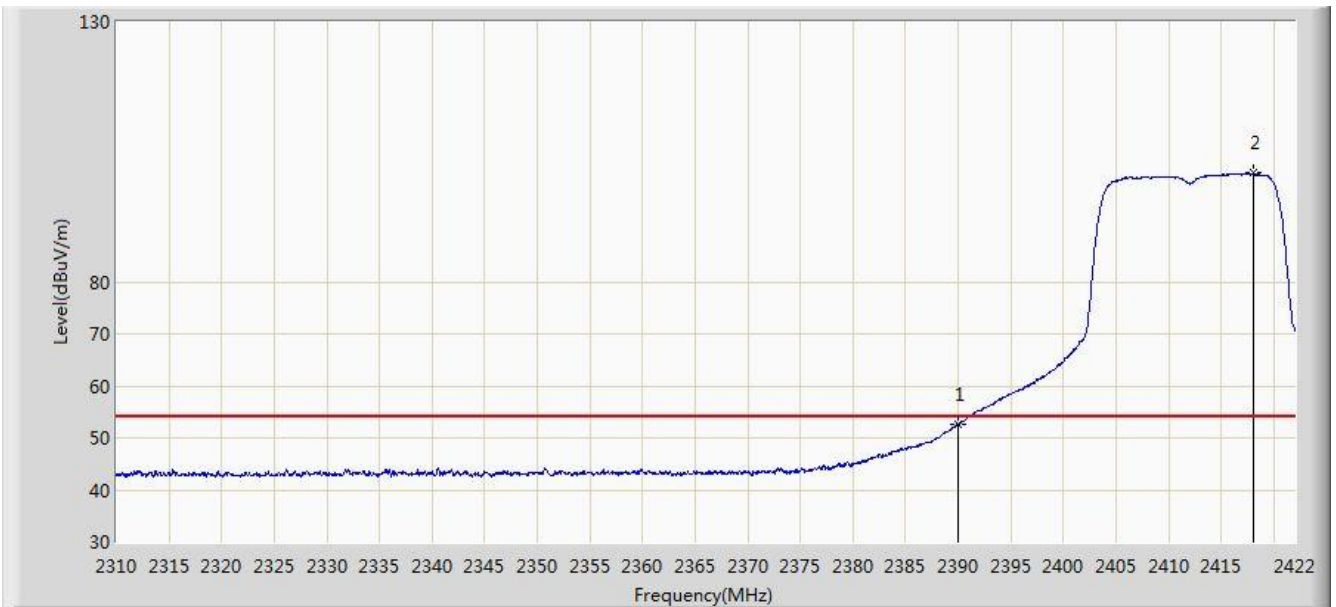


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.632	69.700	37.373	-4.300	74.000	32.328	PK
2			2390.000	68.836	36.509	-5.164	74.000	32.327	PK
3		*	2414.104	111.190	78.906	N/A	N/A	32.284	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 02:59
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2412MHz, Ant 1	

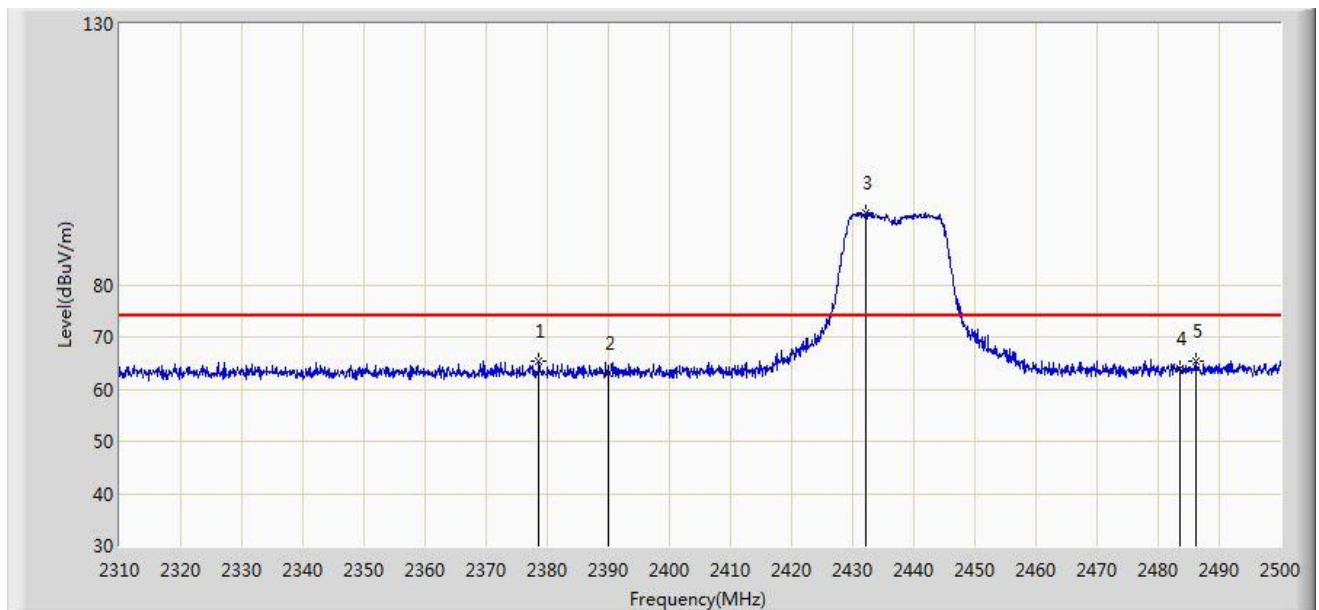


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	52.620	20.293	-1.380	54.000	32.327	AV
2		*	2418.136	100.928	68.646	N/A	N/A	32.282	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/04/18 - 17:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2437MHz, Ant 1	

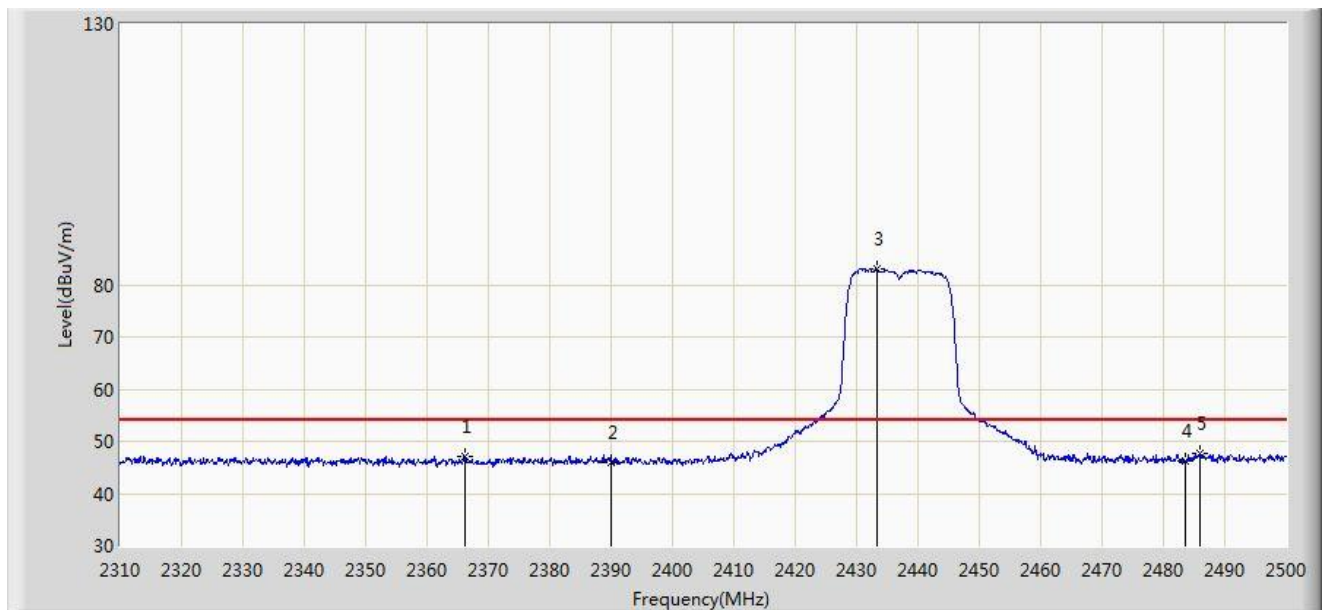


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2378.685	65.418	33.076	-8.582	74.000	32.342	PK
2			2390.000	63.069	30.742	-10.931	74.000	32.327	PK
3			2432.170	93.886	61.615	N/A	N/A	32.271	PK
4			2483.500	63.885	31.546	-10.115	74.000	32.340	PK
5			2486.130	65.335	32.986	-8.665	74.000	32.349	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/04/18 - 17:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2437MHz, Ant 1	

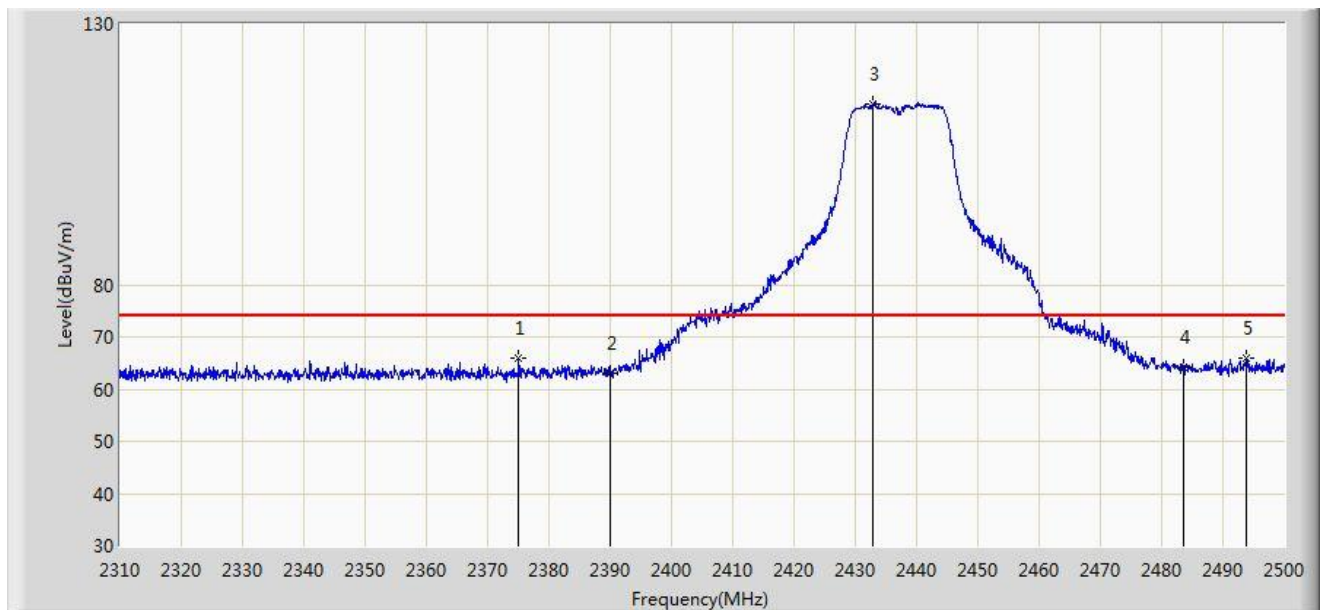


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2366.145	47.202	14.837	-6.798	54.000	32.365	AV
2			2390.000	45.999	13.672	-8.001	54.000	32.327	AV
3			2433.215	82.977	50.708	N/A	N/A	32.269	AV
4			2483.500	46.170	13.831	-7.830	54.000	32.340	AV
5			2485.940	47.810	15.461	-6.190	54.000	32.349	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/04/18 - 17:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2437MHz, Ant 1	

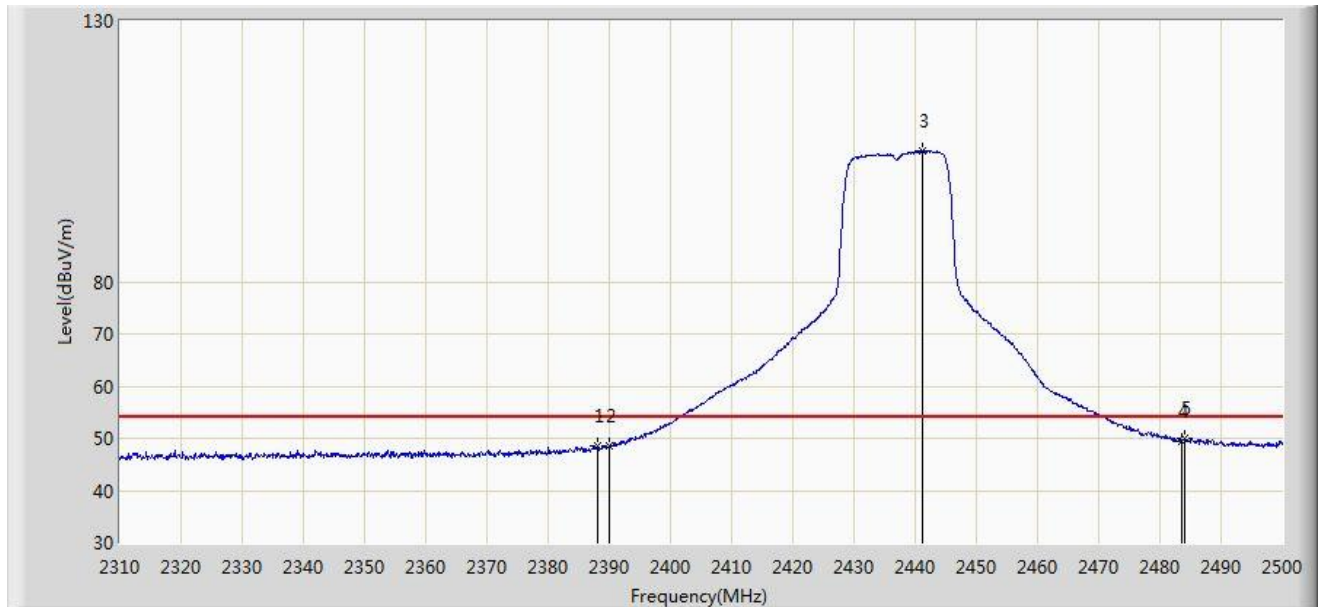


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2374.980	65.842	33.494	-8.158	74.000	32.349	PK
2			2390.000	63.082	30.755	-10.918	74.000	32.327	PK
3			2432.835	114.660	82.390	N/A	N/A	32.270	PK
4			2483.500	64.280	31.941	-9.720	74.000	32.340	PK
5			2493.730	65.824	33.445	-8.176	74.000	32.379	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/04/18 - 17:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Alex Ma
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2437MHz, Ant 1	

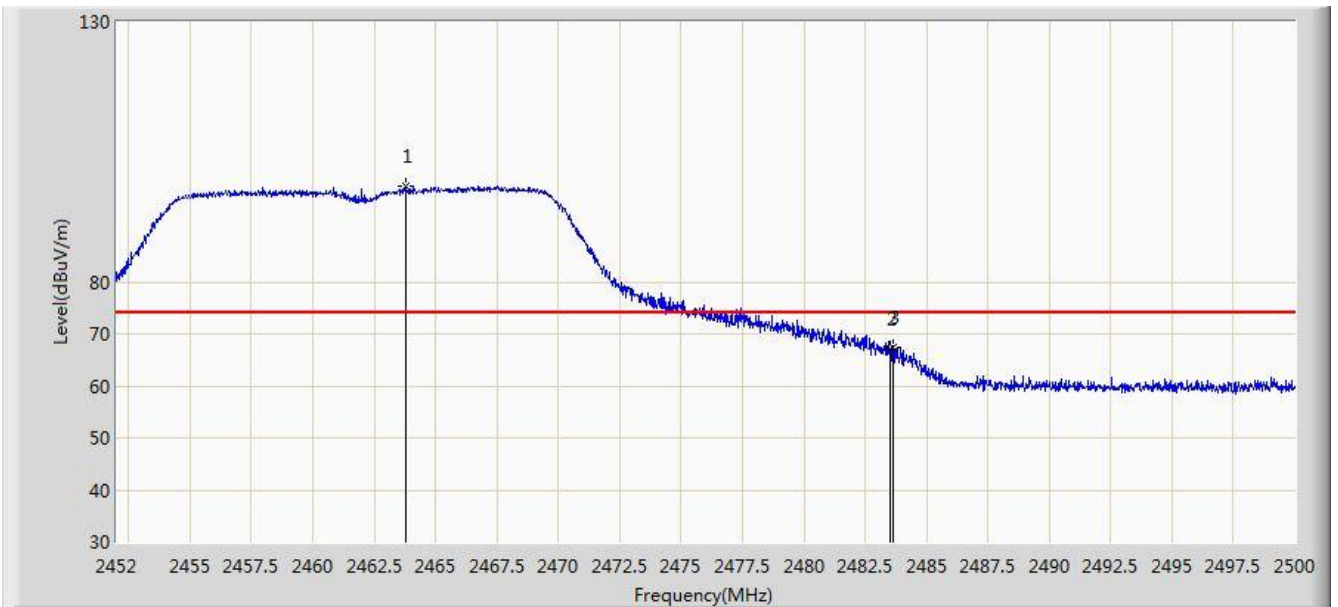


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.090	48.651	16.322	-5.349	54.000	32.330	AV
2			2390.000	48.435	16.108	-5.565	54.000	32.327	AV
3			2441.290	105.118	72.862	N/A	N/A	32.256	AV
4			2483.500	49.523	17.184	-4.477	54.000	32.340	AV
5			2484.135	49.927	17.585	-4.073	54.000	32.342	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 03:14
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2462MHz, Ant 1	

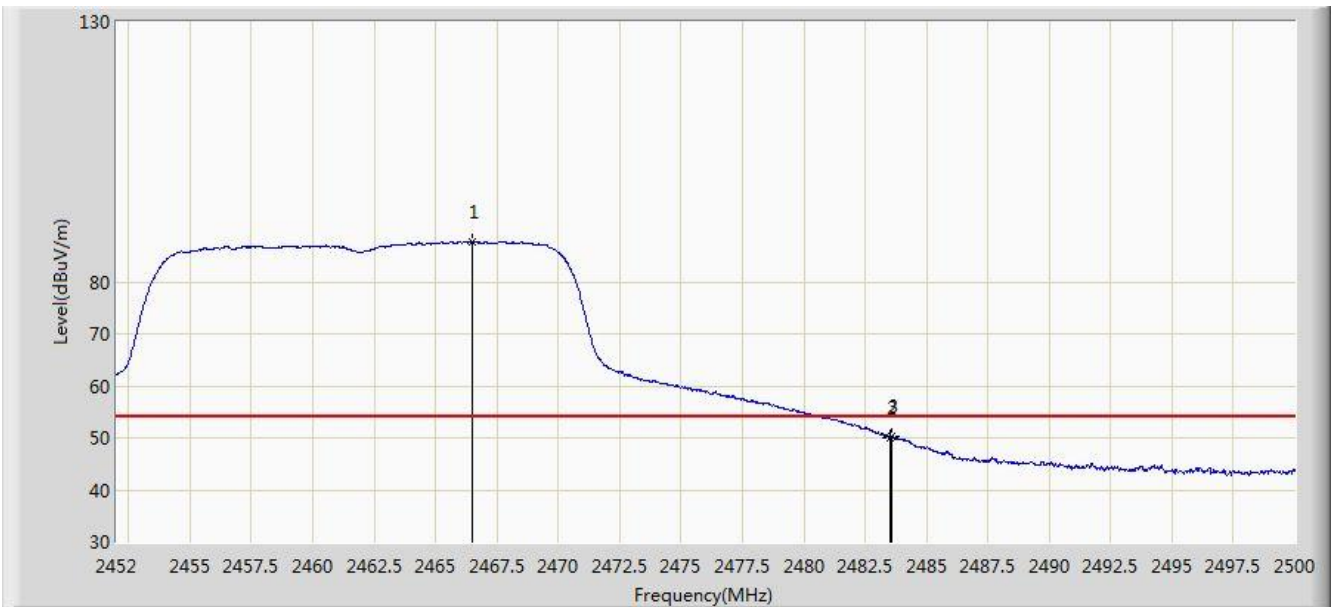


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.760	98.281	65.998	N/A	N/A	32.283	PK
2			2483.500	67.072	34.733	-6.928	74.000	32.340	PK
3			2483.656	67.486	35.146	-6.514	74.000	32.340	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 03:16
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2462MHz, Ant 1	

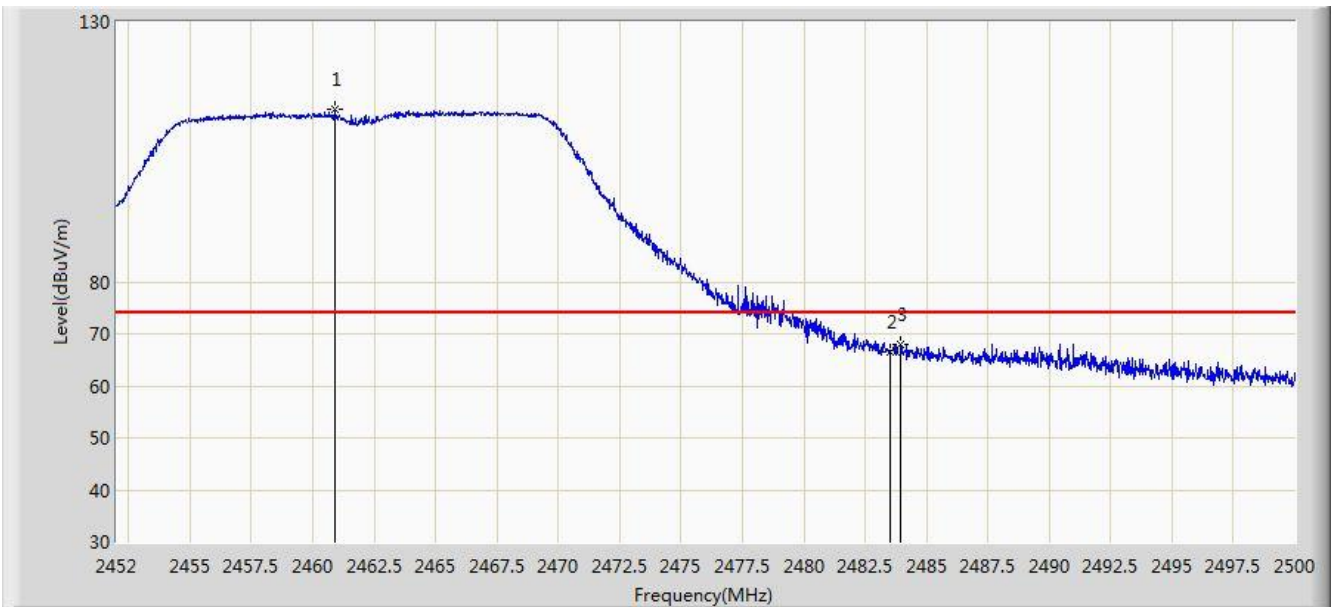


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2466.496	87.761	55.471	N/A	N/A	32.290	AV
2			2483.500	50.106	17.767	-3.894	54.000	32.340	AV
3			2483.584	50.250	17.911	-3.750	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 03:13
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2462MHz, Ant 1	

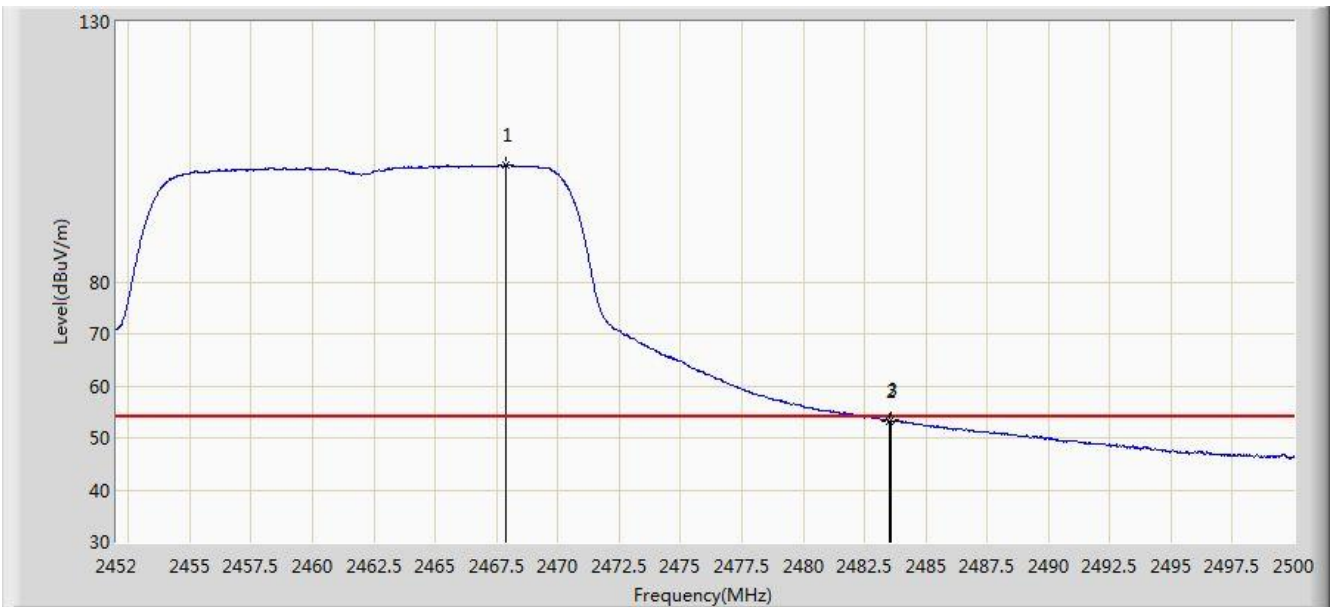


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.880	113.174	80.896	N/A	N/A	32.278	PK
2			2483.500	66.513	34.174	-7.487	74.000	32.340	PK
3			2483.968	68.087	35.746	-5.913	74.000	32.341	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 03:09
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11g at Channel 2462MHz, Ant 1	

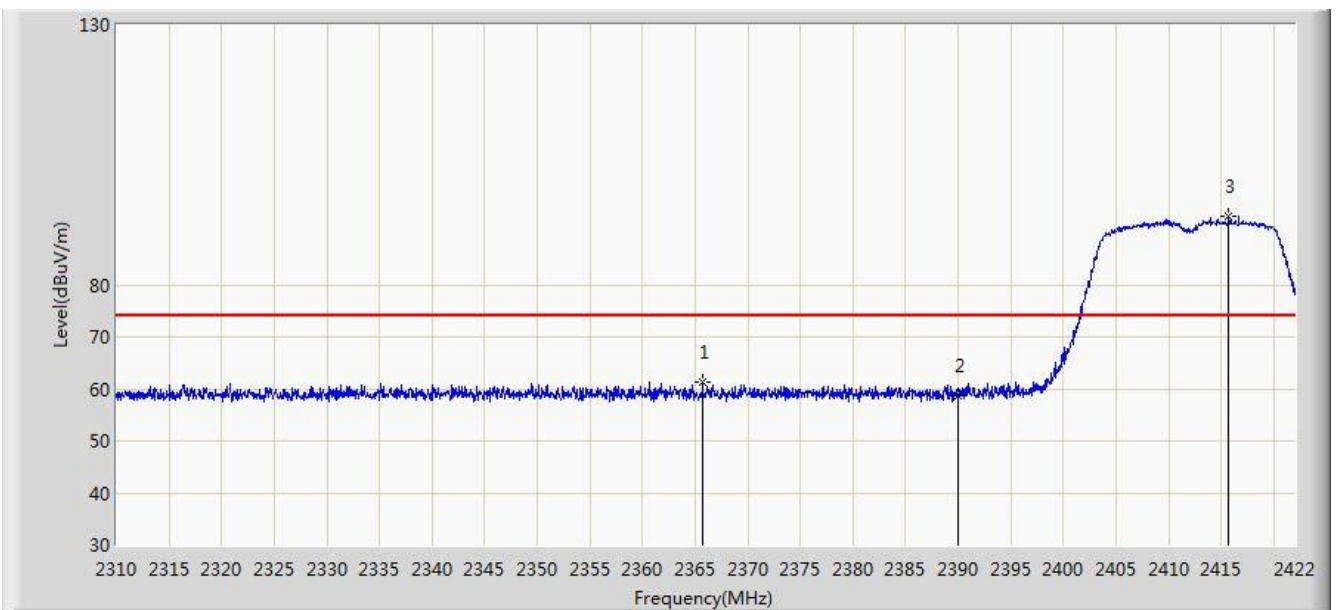


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2467.864	102.449	70.156	N/A	N/A	32.293	AV
2			2483.500	53.275	20.936	-0.725	54.000	32.340	AV
3			2483.584	53.368	21.029	-0.632	54.000	32.340	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 03:25
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz, Ant 1	

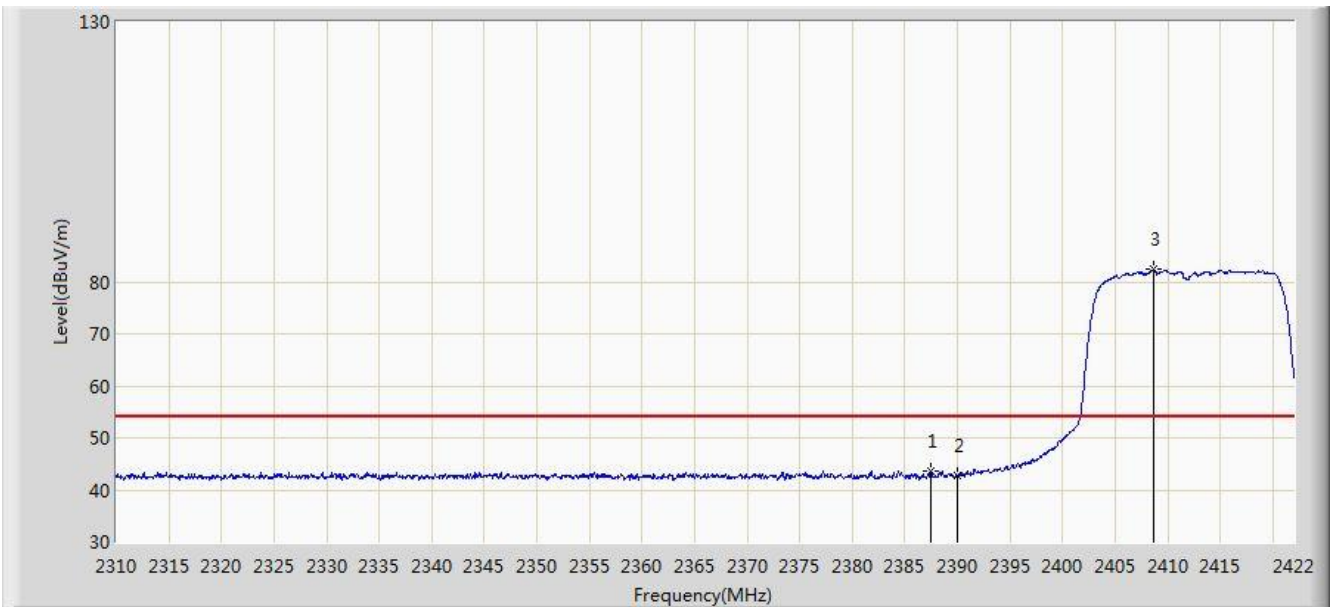


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2365.720	61.163	28.797	-12.837	74.000	32.366	PK
2			2390.000	58.728	26.401	-15.272	74.000	32.327	PK
3		*	2415.728	93.155	60.872	N/A	N/A	32.283	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 03:26
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz, Ant 1	

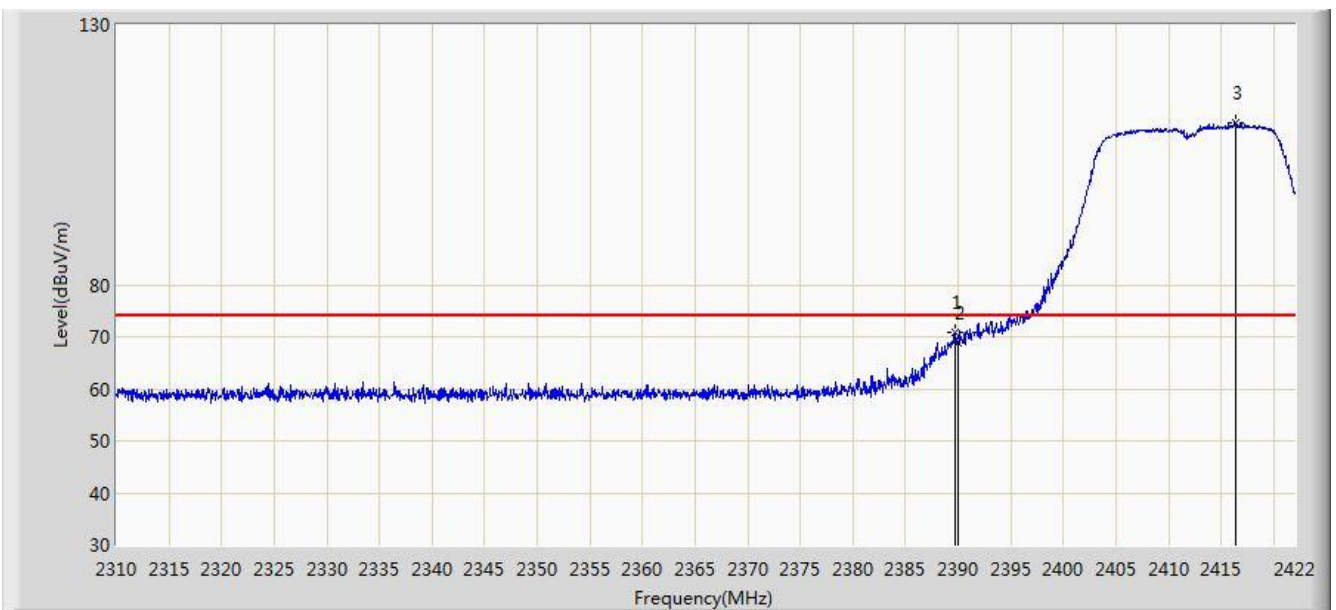


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2387.504	43.612	11.282	-10.388	54.000	32.330	AV
2			2390.000	42.812	10.485	-11.188	54.000	32.327	AV
3		*	2408.728	82.428	50.138	N/A	N/A	32.290	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 03:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz, Ant 1	

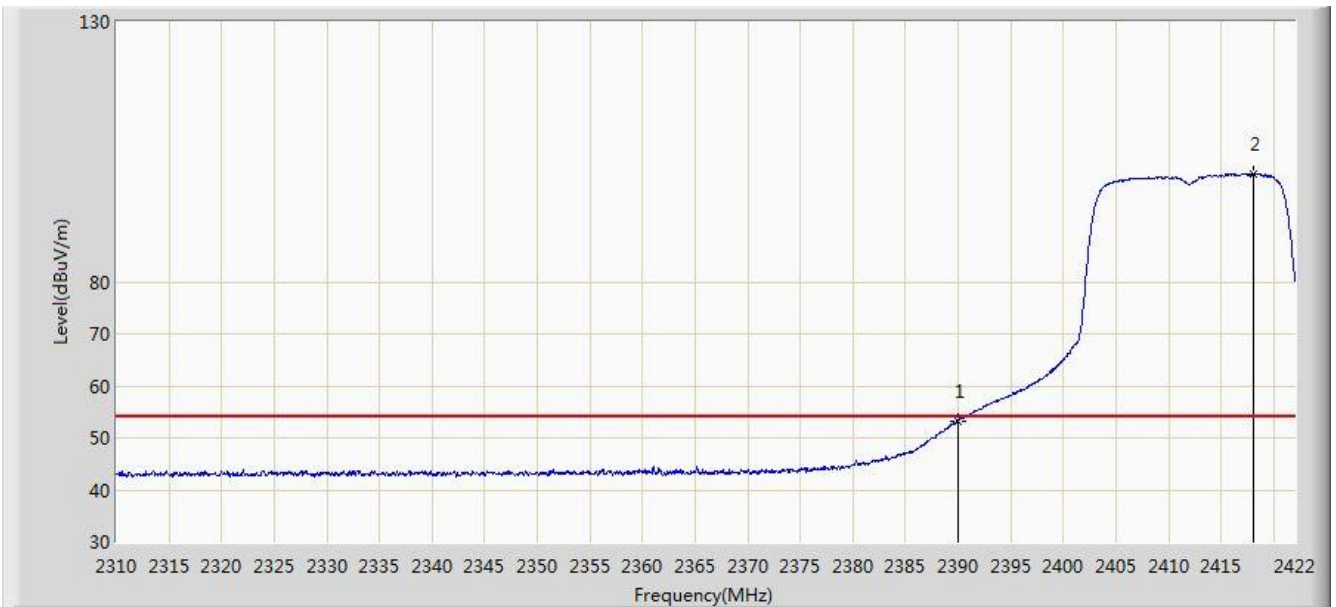


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.688	70.995	38.668	-3.005	74.000	32.328	PK
2			2390.000	68.859	36.532	-5.141	74.000	32.327	PK
3		*	2416.456	111.205	78.922	N/A	N/A	32.283	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 03:21
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz, Ant 1	

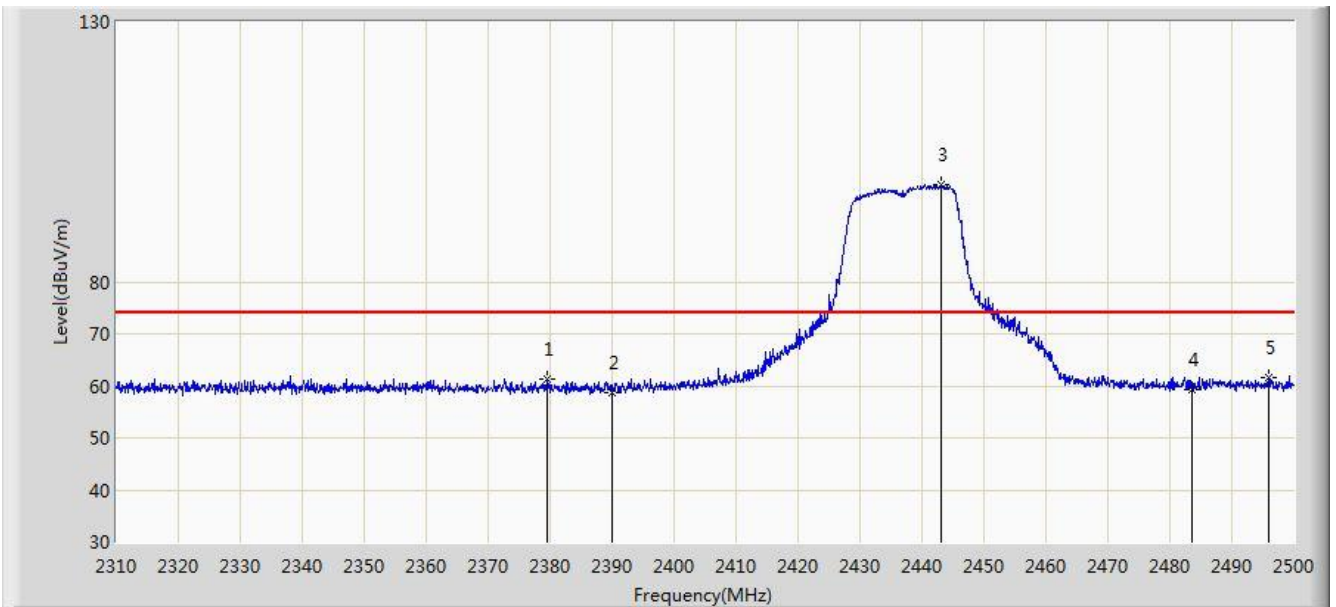


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	53.289	20.962	-0.711	54.000	32.327	AV
2		*	2418.136	100.842	68.560	N/A	N/A	32.282	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/27 - 05:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2437MHz, Ant 1	

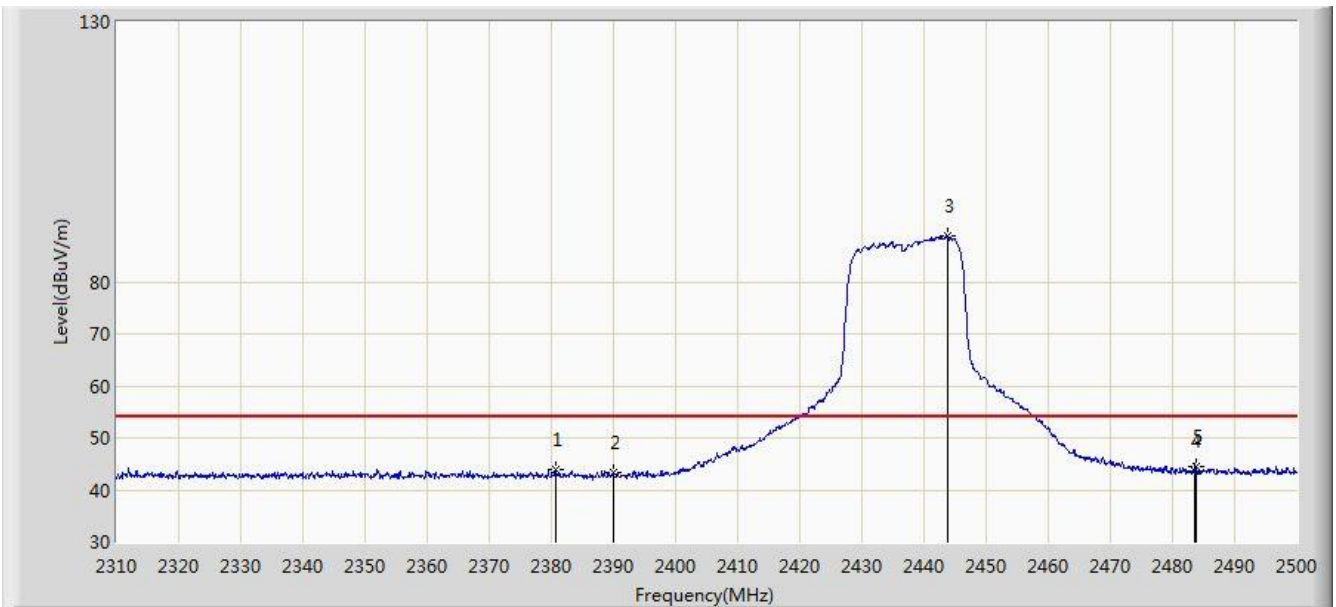


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2379.635	61.416	29.075	-12.584	74.000	32.341	PK
2			2390.000	58.680	26.353	-15.320	74.000	32.327	PK
3		*	2443.190	98.820	66.567	N/A	N/A	32.253	PK
4			2483.500	59.377	27.038	-14.623	74.000	32.340	PK
5			2495.915	61.632	29.244	-12.368	74.000	32.388	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/27 - 05:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2437MHz, Ant 1	

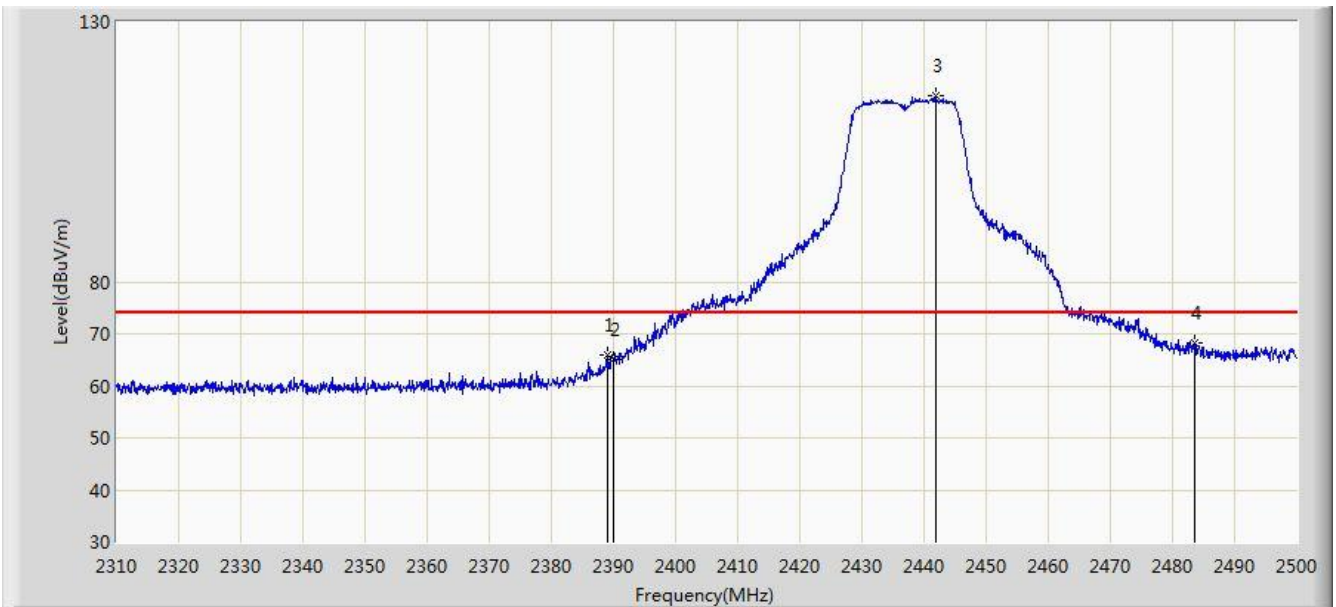


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2380.680	43.987	11.647	-10.013	54.000	32.340	AV
2			2390.000	43.214	10.887	-10.786	54.000	32.327	AV
3		*	2443.760	88.855	56.603	N/A	N/A	32.252	AV
4			2483.500	43.655	11.316	-10.345	54.000	32.340	AV
5			2483.755	44.354	12.014	-9.646	54.000	32.340	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/27 - 05:42
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2437MHz, Ant 1	

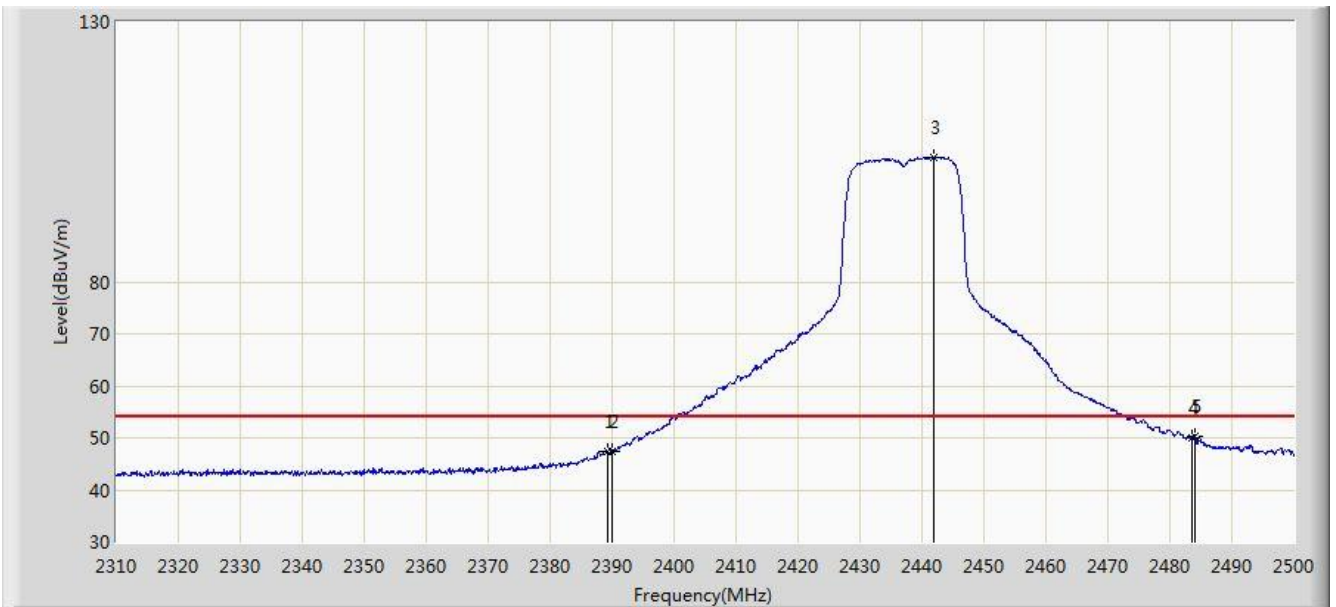


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.945	65.821	33.493	-8.179	74.000	32.329	PK
2			2390.000	65.117	32.790	-8.883	74.000	32.327	PK
3		*	2441.860	115.822	83.567	N/A	N/A	32.255	PK
4			2483.500	68.204	35.865	-5.796	74.000	32.340	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/27 - 05:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2437MHz, Ant 1	

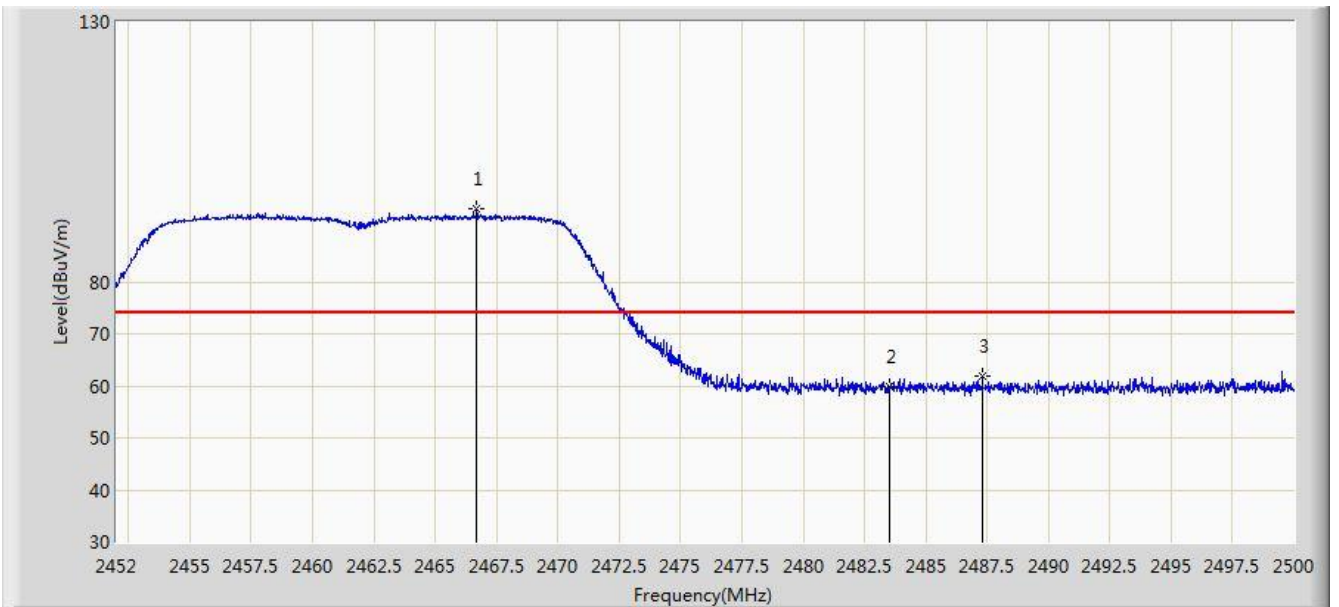


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.325	47.524	15.196	-6.476	54.000	32.328	AV
2			2390.000	47.437	15.110	-6.563	54.000	32.327	AV
3		*	2441.955	103.977	71.722	N/A	N/A	32.255	AV
4			2483.500	50.141	17.802	-3.859	54.000	32.340	AV
5			2484.040	50.194	17.853	-3.806	54.000	32.342	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 03:34
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz, Ant 1	

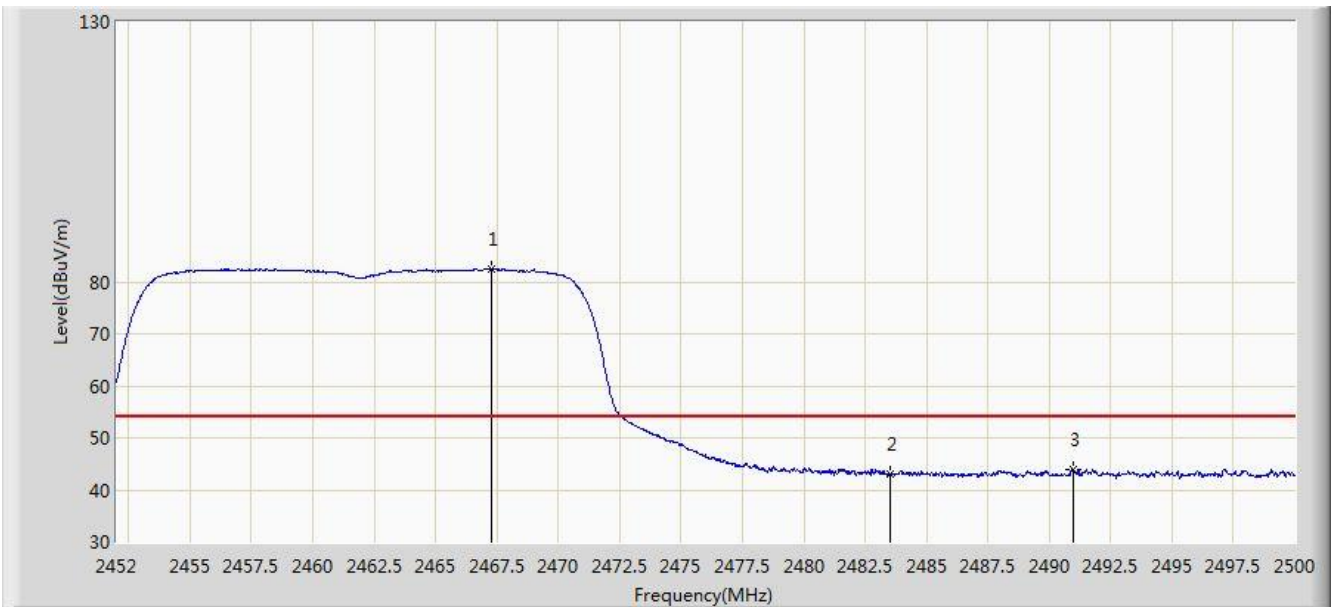


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2466.688	94.018	61.727	N/A	N/A	32.290	PK
2			2483.500	59.721	27.382	-14.279	74.000	32.340	PK
3			2487.304	61.860	29.506	-12.140	74.000	32.354	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 03:36
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz, Ant 1	

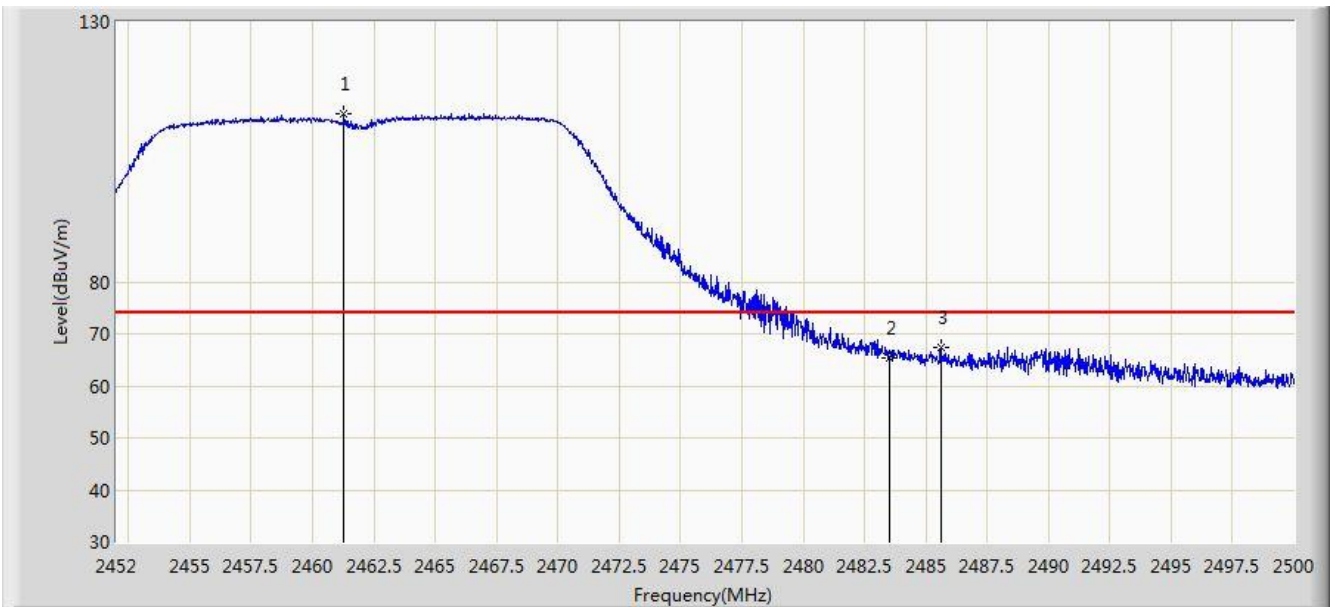


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2467.288	82.565	50.273	N/A	N/A	32.292	AV
2			2483.500	42.953	10.614	-11.047	54.000	32.340	AV
3			2490.976	44.021	11.653	-9.979	54.000	32.368	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 03:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz, Ant 1	

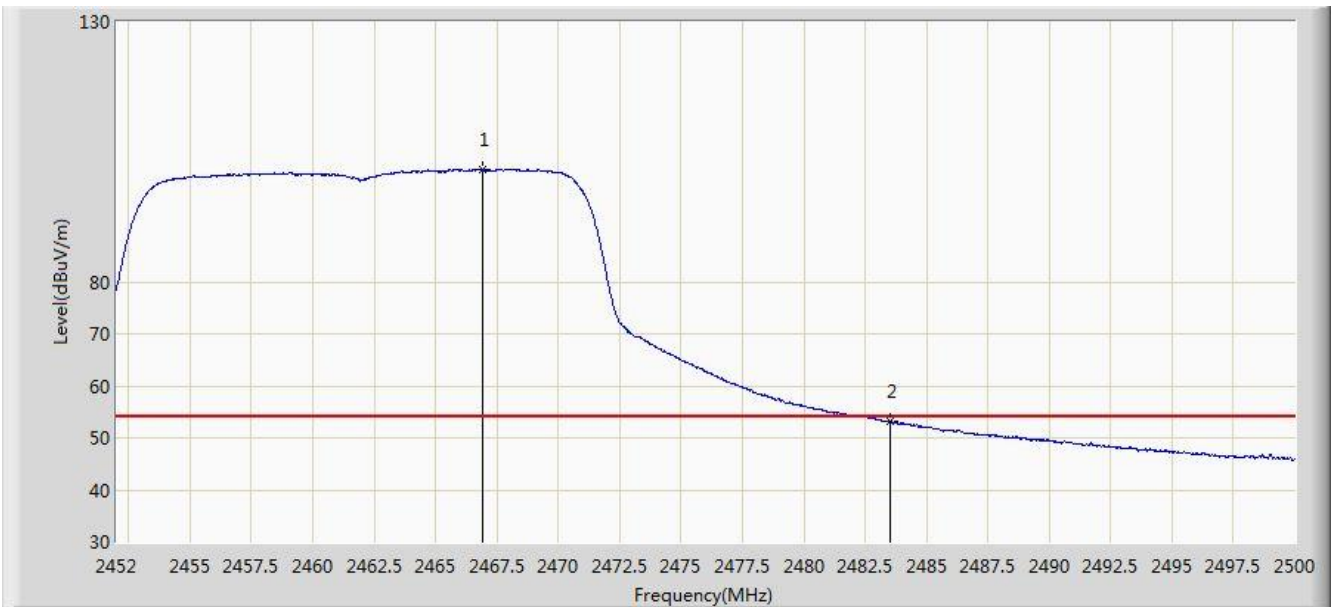


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.288	112.455	80.176	N/A	N/A	32.279	PK
2			2483.500	65.338	32.999	-8.662	74.000	32.340	PK
3			2485.624	67.351	35.004	-6.649	74.000	32.347	PK

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 03:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz, Ant 1	

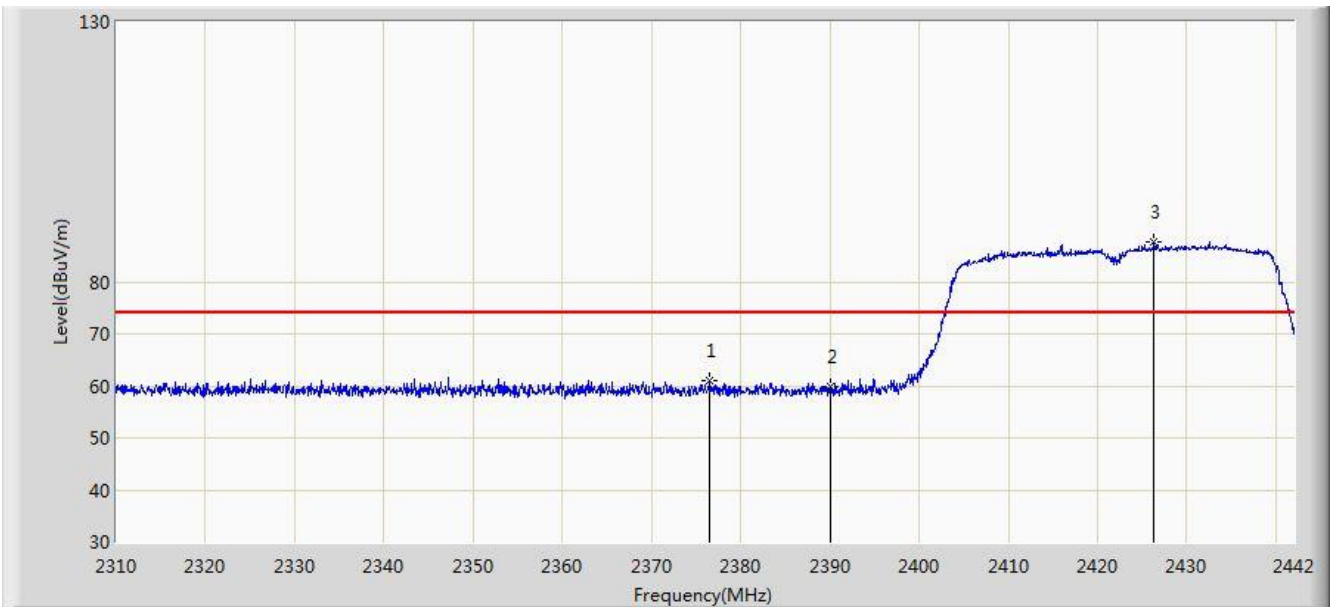


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2466.904	101.702	69.411	N/A	N/A	32.291	AV
2			2483.500	53.083	20.744	-0.917	54.000	32.340	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2018/03/22 - 04:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 802.11ac Dual Band Module	Power: DC 3.3V
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz, Ant 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2376.528	60.969	28.624	-13.031	74.000	32.346	PK
2			2390.000	59.922	27.595	-14.078	74.000	32.327	PK
3		*	2426.358	87.625	55.346	N/A	N/A	32.279	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)